HAINES SURVEYS
GRAVITY SURVEY SPECIALISTS

Job No 1022

KING RIVER GRAVITY SURVEY
Cameco Australia Pty. Ltd.
June - July 2010

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Contents

Introduction

A detail GPS gravity survey designated as King River Gravity Survey (as part of Arnhem Land Gravity Survey) has been carried out in an area approximately 65 kilometers North-North-West of Nabarlek in the Northern Territory. The survey ran over 26 days from 21st June 2010 to 16th July 2010 on behalf of Cameco Australia Pty. Ltd.

The proposed King River gravity survey consisted of 568 detail gravity stations in an irregular grid comprising 18 North-South trending lines coincident with GDA94 with a line spacing of 50/100 meters and station intervals of 50 metres. The lines were bounded in the west by GDA94 Zone 53 298650E, in the east by 299850E, in the south by 8700000N and in the north by 8702000N. The line lengths ranged from 1000m to 2000m.

During the Survey an extra 158 stations in 17 Lines at a 25m line spacing and a 25m station spacing were proposed in the central section of the original proposed survey grid.

The completed King River gravity survey comprised of 703 stations in 26 lines. 23 gravity stations where omitted due to terrain, vegetation or landholders etc. Note; some of the stations may have been slightly offset from their planned position due to vegetation and terrain.

There were 36 observations repeated for quality control purposes, giving a repeat percentage of 5.1%.

The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

Figure 1 below shows the location of the survey area.

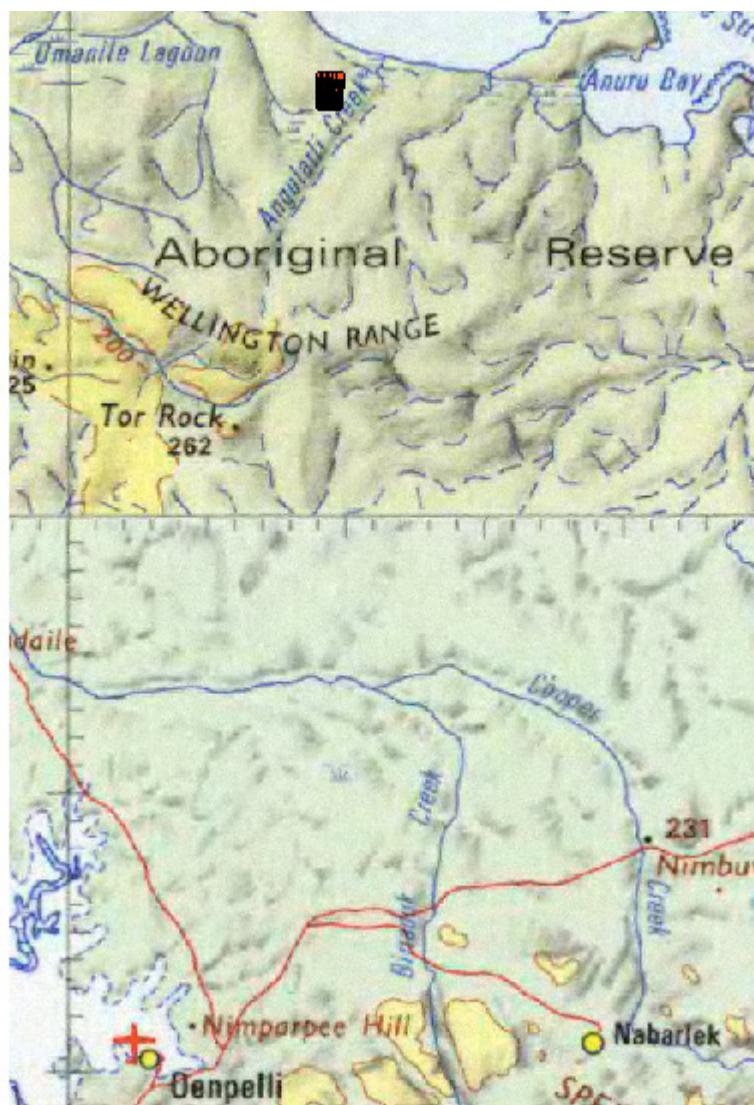**Figure 1. Location Diagram**

GPS Survey and Gravity Datum

Horizontal Datum: Geocentric Datum of Australia1994 (GDA94)
                           Map Grid of Australia 1994 (MGA94)
                           Zone 53

Vertical Datum: Australian Height Datum (AHD)

Gravity Datum: Isogal 1984 / IGSN 71

Survey and Gravity Base Stations

One base station was established in the survey area. It was placed on a hill central to the project to provide good UHF radio coverage for the RTK system. The base is designated as Base 2010.2202. The actual base is marked with a short star picket driven flush with the natural surface. The base is witnessed by a long star picket within 0.3m of the ground mark standing about 1m tall. An aluminum tags is attached with the inscription "Haines Surveys" "GPS & Gravity Base 2010.1002"

A Sub-base was located within 5 minutes drive of the main base to provide a backup base station to the main base in case loop ties to the main base were poor.

Survey Control

Horizontal and vertical control for Base 2010.2202 has been established using the AUSPOS online GPS processing service provided by Geoscience Australia. This method provides control within the GDA94 Datum to within +/- 5 cm. It largely replaces the need for finding local survey marks or allows accurate control to be established when local marks are not available.

A total of 18 hours (at 15 second intervals) of observations were logged over 3 days. The following outlines the Cartesian coordinate precision attained per day.

1 Sigma	sX(m)	sY(m)	sZ(m)	yyyy/mm/dd
2202	-0.044	0.021	-0.002	2010/06/21
2202	0.008	0.008	0.004	2010/06/22
2202	0.008	0.008	0.004	2010/06/23

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control has been converted to an Australian Height Datum (AHD) height using the GDA94 height determined from AUSPOS and the AUSGEOID98 gravimetric geoid.

Gravity Control

Gravity control for 2010.2202 base station was established on the Australian Fundamental Gravity Network (Isogal 1984 / IGSN 71) using classical A-B-A ties from gravity station 2010.2201 (HAINES SURVEYS BASE). The values for 2010.2201 were attained through A-B-A ties from gravity station 2009.1401 (EXSISTING HAINES SURVEYS BASE). A-B-A ties were made over several days to within 0.01 milligals

Survey & Gravity Control Values

Control information (**WGS84 heights have been derived using AusGeoid98**):

	GDA94 (WGS84)			GDA94 Zone 55		AHD	Isogal84
Station	Latitude	Longitude	Height	Easting	Northing	Height	Gravity mgal
2009.1401	-12 18 25.43910	133 19 14.25730	131.645	317370.582	8638920.57	74.924	978275.872
2010.2201	-12 20 43.12110	133 16 49.40050	140.38	313020.684	8634661.988	83.764	978279.897
2010.2202	-11 44 38.90810	133 09 30.42870	96.732	299311.824	8701081.857	39.113	978275.171
2010.2203	-12 19 31.74981	133 25 51.57243	136.736	329387.401	8636955.574	80.001	978270.327

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000* series geodetic receivers.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques giving horizontal and vertical precision of at least 5 cm. Where radio link was not possible measurements for post processed observations have been made using Static techniques with baselines processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Static baseline processing has been done using Trimble GPSurvey Version 2.35 software and RTK processing using Trimble Geomatics Office Version 1.01 software.

Gravity Observations

Gravity measurements have been made using *Scintrex CG5 Autograv* instruments. The instrument number 080340352 was used in this project.

Readings of 120 seconds were taken at base station. Readings of 40 seconds were taken at all other gravity survey points.

Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

The CG5 instrument applies an instrument drift correction to its final gravity reading. Any residual drifts between base station readings are corrected by the gravity post processing software. The instrument also applies Earth Tide Correction to its final gravity reading at each station. The instrument calibration constants are contained in the daily gravity data files.

Point Numbering and Marking

An 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number

The lines are South-North and the 8 digits are constructed from the planned MGA coordinates for each gravity station using

Line No = (MGA E – 299000) / 10)   Stn No = (MGA N – 8701000)
    eg. Planned gravity station MGA coordinates
            299000.000N   8701000.000E
      Line No = 9900   Station No = 1000
    I e, Pt No = 99001000

The gravity stations have not been marked in the field.

Gravity Processing

The gravity values for this survey are related to the *Australian Gravity Base Station Network* using the *Isogal84 (IGSN 71)* values at known Gravity Stations as provided by *DMR*.

Note that all gravity values shown in these surveys are expressed in units of milligals.

The field gravity observations have been processed using standard formulae and constants to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

$$\text{Drift} = [\ (t_1 - t_n)\ ((b_2 - b_1)/\ (t_2 - t_1))\ ]$$

t_n = time of meter reading at each station

b_1 = base meter reading prior to station reading

t_1 = time of base reading b_1

b_2 = base meter reading after station reading

t_2 = time of base reading b_2

Obs mgal

This is the observed gravity value in milligals.

Obs = b_g + (r_n - drift) - b_1

b_g = base stn gravity value (Isogal84)
r_n = meter reading at each station as shown in the CG3 .dat file
drift = residual drift correction as shown above
b_1 = base meter reading prior to station reading

Anom

This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1967 International Gravity Formula*.

Anom = Obs - g_{th}

Obs = observed gravity as explained above
g_{th} = 978031.8 (1 + 0.0053024 $\sin^2\phi$ - 0.0000059 $\sin^2 2\phi$)
   ϕ = WGS84 Latitude

Freeair corrn

The freeair correction is calculated using
  Freeair corrn = 0.3086 H
     H = height above sea level (AHD height)

Bouguer corrn

Bouguer corrn = -0.04191 ρ H

    ρ = density (2.67 g/cc used for this survey)
    H = height above sea level (AHD height)

Bouguer Anom

Bouguer Anom = Anom + Freeair corrn + Bouguer corrn

Results Formats

Printed results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. The results are also supplied in digital form on Compact Disc with the following of files being supplied in a separate sub directory call Processed Data.

            ALLCSV.CSV   REPEATS.REP   LINE#.BMP

Field gravity observation files with the extension .DAT and .DC and summarised GPS baseline solution files with extension .GPS are also supplied in a separate subdirectory named Raw Data.

A digital copy of this report is also on the compact disc in the root Directory

ALLCSV.CSV Format
> This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:
> Pt Number, Line No, Station No, Date, Day Number, Local Time, WGS Latitude, WGS Longitude, WGS Height, MGA East, MGA North, AHD Height, Meter reading, Meter reading standard deviation, Earth Tide Correction, drift correction, corrected meter reading, gravity difference (mgal) from base, observed gravity (mgals), gravity anomaly, free-air correction, Bouguer correction (2.67), Bouguer anomaly

*.DAT
> These are the raw data files from the *Scintrex CG3* gravimeter. There is a separate file for each day's data for each field party. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G142 = day 142 (21st May).

*.DC
> These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (DC file Version 4).

*.BMP
> These are line profile files. They are bitmaps of Elevation/Bouguer comparisons of line profiles.

PRODUCTION LOG

1022_Arnhem 2010 Production log				
Date	Day#	Obs	Repeats	Comments
6/7/2010	158	0	0	Induction
6/8/2010	159	35	0	commence Coopers ,re-establish 2009.1401
6/9/2010	160	47	2	trees
6/10/2010	161	44	2	establish 2201
6/11/2010	162	78	2	creek, marshes, wet areas
6/12/2010	163	80	2	creek, marshes, wet areas
6/13/2010	164	48	2	creek, marshes, wet areas
6/14/2010	165	67	2	creeks, complete Coopers
6/15/2010	166	18	0	commence Gabbo
6/16/2010	167	65	2	seismic activity
6/17/2010	168	81	2	steep rock faces, mobed to Narbalek due to burning off
6/18/2010	169	46	2	
6/19/2010	170	68	2	Gabbo infill
6/20/2010	171	40	2	complete Gabbo
6/21/2010	*172*	*13*	*0*	***moved to King River camp, establish 2010.2202***
6/22/2010	*173*	*15*	*2*	
6/23/2010	*174*	*37*	*2*	
6/24/2010	*175*	*0*	*0*	***Cross Cultural Training seminar***
6/25/2010	*176*	*42*	*2*	
6/26/2010	*177*	*47*	*2*	
6/27/2010	*178*	*42*	*2*	***thick bush***
6/28/2010	*179*	*38*	*2*	
6/29/2010	*180*	*41*	*2*	***crew changeover***
6/30/2010	*181*	*0*	*0*	***crew changeover***
7/1/2010	*182*	*0*	*0*	***crew changeover***
7/2/2010	*183*	*0*	*0*	***crew changeover***
7/3/2010	*184*	*35*	*2*	***fire, creek***
7/4/2010	*185*	*33*	*2*	***thick bush***
7/5/2010	*186*	*19*	*6*	***thick bush, poor sats***
7/6/2010	*187*	*11*	*1*	***thick bush, poor sats***
7/7/2010	*188*	*37*	*2*	***thick bush, poor sats***
7/8/2010	*189*	*20*	*2*	***thick bush, poor sats***
7/9/2010	*190*	*32*	*2*	
7/10/2010	*191*	*32*	*2*	
7/11/2010	*192*	*47*	*2*	
7/12/2010	*193*	*15*	*2*	***revisit previously inaccessible points***
7/13/2010	*194*	*50*	*2*	
7/14/2010	*195*	*20*	*0*	***establish 2203,worked at Narbalek***
7/15/2010	*196*	*38*	*2*	***infill***
7/16/2010	*197*	*64*	*1*	***complete infill***
7/17/2010	198	96	2	commence Quarry, mob to Narbalek
7/18/2010	199	58	1	
7/19/2010	200	22	2	rough terrain
7/20/2010	201	48	2	complete survey
TOTAL		**1669**	**71**	

Repeat Observation Results

KING RIVER GRAVITY SURVEY

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    Pt #    Day       E            N            H           G       Bouguer

 99301050   D172 299,295.387  8,701,052.033   38.592   978,275.308   +37.158
 99301050   D173 299,295.419  8,701,052.266   38.540   978,275.292   +37.132
                     -0.032         -0.233   +0.052        +0.016     +0.026
 99301050   D174 299,295.271  8,701,051.976   38.593   978,275.285   +37.135
                     +0.116         +0.057   -0.001        +0.023     +0.023
 99301050   D179 299,295.375  8,701,052.225   38.583   978,275.279   +37.127
                     +0.012         -0.192   +0.009        +0.029     +0.031

 99301100   D172 299,297.147  8,701,097.869   38.629   978,275.225   +37.097
 99301100   D173 299,297.178  8,701,097.829   38.615   978,275.265   +37.134
                     -0.031         +0.040   +0.014        -0.040     -0.037

 99301150   D172 299,297.127  8,701,149.649   37.014   978,275.507   +37.078
 99301150   D174 299,297.437  8,701,149.448   37.002   978,275.502   +37.071
                     -0.310         +0.201   +0.012        +0.005     +0.007

 99451250   D173 299,446.288  8,701,248.253   29.256   978,276.914   +36.991
 99451250   D176 299,445.785  8,701,248.805   29.214   978,276.903   +36.972
                     +0.503         -0.552   +0.042        +0.011     +0.019

 99400900   D174 299,399.874  8,700,899.237   23.476   978,277.708   +36.535
 99400900   D176 299,400.010  8,700,899.459   23.449   978,277.725   +36.546
                     -0.136         -0.222   +0.027        -0.017     -0.011

 99450950   D176 299,453.917  8,700,949.659   24.794   978,277.702   +36.804
 99450950   D177 299,454.477  8,700,949.698   24.690   978,277.728   +36.810
                     -0.560         -0.039   +0.104        -0.026     -0.006

 99551050   D176 299,552.103  8,701,053.354   31.334   978,276.671   +37.093
 99551050   D177 299,552.087  8,701,053.436   31.443   978,276.698   +37.141
                     +0.016         -0.082   -0.109        -0.027     -0.048

 99851200   D177 299,842.413  8,701,201.800   15.870   978,279.391   +36.819
 99851200   D178 299,842.235  8,701,202.168   15.946   978,279.371   +36.814
                     +0.178         -0.368   -0.076        +0.020     +0.005

 99551500   D178 299,545.421  8,701,500.331   11.245   978,279.609   +36.225
 99551500   D179 299,545.578  8,701,500.055   11.304   978,279.621   +36.248
                     -0.157         +0.276   -0.059        -0.012     -0.023

 99250850   D179 299,245.947  8,700,853.392   25.754   978,277.177   +36.437
 99250850   D180 299,246.163  8,700,853.294   25.724   978,277.193   +36.447
                     -0.216         +0.098   +0.030        -0.016     -0.010

 99250950   D179 299,249.343  8,700,952.101   29.232   978,276.834   +36.810
 99250950   D180 299,249.987  8,700,952.222   29.198   978,276.793   +36.763
                     -0.644         -0.121   +0.034        +0.041     +0.047

 99150250   D180 299,146.544  8,700,249.184   36.915   978,274.879   +36.138
 99150250   D186 299,146.544  8,700,249.184   36.915   978,274.893   +36.152
                     +0.000         +0.000   +0.000        -0.014     -0.014

 99150300   D180 299,145.159  8,700,296.126   37.287   978,274.806   +36.154
 99150300   D186 299,145.159  8,700,296.126   37.287   978,274.830   +36.178
                     +0.000         +0.000   +0.000        -0.024     -0.024
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99150350  D180  299,145.241  8,700,351.470  37.775  978,274.599  +36.061
99150350  D186  299,145.241  8,700,351.470  37.775  978,274.630  +36.092
                    +0.000         +0.000  +0.000       −0.031   −0.031


99150400  D180  299,153.303  8,700,396.707  38.157  978,274.420  +35.972
99150400  D186  299,155.834  8,700,396.361  38.129  978,274.464  +36.010
                    −2.531         +0.346  +0.028       −0.044   −0.038


99150950  D180  299,150.456  8,700,957.923  33.549  978,275.869  +36.697
99150950  D194  299,150.456  8,700,957.923  33.549  978,275.855  +36.683
                    +0.000         +0.000  +0.000       +0.014   +0.014


99151000  D180  299,149.935  8,700,997.748  34.987  978,275.833  +36.956
99151000  D184  299,149.601  8,700,997.889  35.036  978,275.808  +36.941
                    +0.334         −0.141  −0.049       +0.025   +0.015


99050500  D186  299,047.399  8,700,502.963  39.317  978,274.094  +35.908
99050500  D187  299,047.379  8,700,502.990  39.323  978,274.056  +35.872
                    +0.020         −0.027  −0.006       +0.038   +0.036


99050900  D186  299,048.446  8,700,894.538  43.646  978,274.167  +36.960
99050900  D187  299,048.422  8,700,894.609  43.522  978,274.158  +36.927
                    +0.024         −0.071  +0.124       +0.009   +0.033


99000950  D187  298,998.514  8,700,949.225  40.809  978,274.797  +37.050
99000950  D188  298,998.810  8,700,949.272  40.764  978,274.791  +37.035
                    −0.296         −0.047  +0.045       +0.006   +0.015
99000950  D190  298,998.810  8,700,949.272  40.764  978,274.793  +37.037
                    −0.296         −0.047  +0.045       +0.004   +0.013
99000950  D192  298,998.514  8,700,949.225  40.809  978,274.813  +37.066
                    +0.000         +0.000  +0.000       −0.016   −0.016


99001000  D187  298,998.492  8,701,001.482  41.431  978,274.569  +36.961
99001000  D188  298,998.760  8,701,001.256  41.372  978,274.608  +36.989
                    −0.268         +0.226  +0.059       −0.039   −0.028
99001000  D192  298,998.492  8,701,001.482  41.431  978,274.587  +36.979
                    +0.000         +0.000  +0.000       −0.018   −0.018


99051400  D187  299,047.601  8,701,401.968  17.556  978,278.763  +36.589
99051400  D190  299,047.601  8,701,401.968  17.556  978,278.731  +36.557
                    +0.000         +0.000  +0.000       +0.032   +0.032


98900600  D188  298,894.656  8,700,605.008  40.527  978,274.233  +36.319
98900600  D189  298,894.701  8,700,605.044  40.663  978,274.220  +36.333
                    −0.045         −0.036  −0.136       +0.013   −0.014


98950750  D188  298,946.023  8,700,757.291  42.652  978,274.505  +37.058
98950750  D194  298,945.990  8,700,757.311  42.648  978,274.493  +37.046
                    +0.033         −0.020  +0.004       +0.012   +0.012


98950950  D188  298,945.813  8,700,949.209  43.513  978,274.278  +37.063
98950950  D189  298,945.719  8,700,949.158  43.527  978,274.256  +37.044
                    +0.094         +0.051  −0.014       +0.022   +0.019


98750950  D189  298,744.391  8,700,943.381  44.920  978,273.983  +37.043
98750950  D191  298,744.401  8,700,943.391  44.902  978,273.975  +37.032
                    −0.010         −0.010  +0.018       +0.008   +0.011


98850700  D189  298,849.761  8,700,704.782  42.801  978,274.324  +36.890
98850700  D191  298,849.761  8,700,704.782  42.801  978,274.338  +36.904
                    +0.000         +0.000  +0.000       −0.014   −0.014
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98650300   D191 298,649.462   8,700,304.718   37.448   978,275.980   +37.363
98650300   D193 298,649.500   8,700,304.627   37.409   978,275.978   +37.354
                     −0.038          +0.091   +0.039        +0.002     +0.009


98651050   D191 298,650.526   8,701,049.025   44.265   978,273.968   +36.934
98651050   D193 298,650.526   8,701,049.025   44.265   978,273.969   +36.935
                     +0.000          +0.000   +0.000        −0.001     −0.001


99020950   D194 299,021.331   8,700,950.542   40.452   978,274.796   +36.979
99020950   D196 299,021.289   8,700,950.512   40.383   978,274.768   +36.938
                     +0.042          +0.030   +0.069        +0.028     +0.041


99070975   D194 299,070.175   8,700,977.804   39.579   978,274.865   +36.885
99070975   D196 299,070.048   8,700,977.859   39.569   978,274.868   +36.886
                     +0.127          −0.055   +0.010        −0.003     −0.001
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Plots

KING RIVER GRAVITY SURVEY

703 Station Locations in 26 Lines

Haines Surveys Pty Ltd — June/July 2010

250   0   250   500

(metres)

KING RIVER GRAVITY SURVEY

Bouguer Anomaly Contours & Station Locations

Haines Surveys Pty Ltd — June/July 2010

250   0   250   500

(metres)

KING RIVER GRAVITY SURVEY

Bouguer Anomaly Contours & Colour Image
Haines Surveys Pty Ltd — June/July 2010

250   0   250   500

(metres)
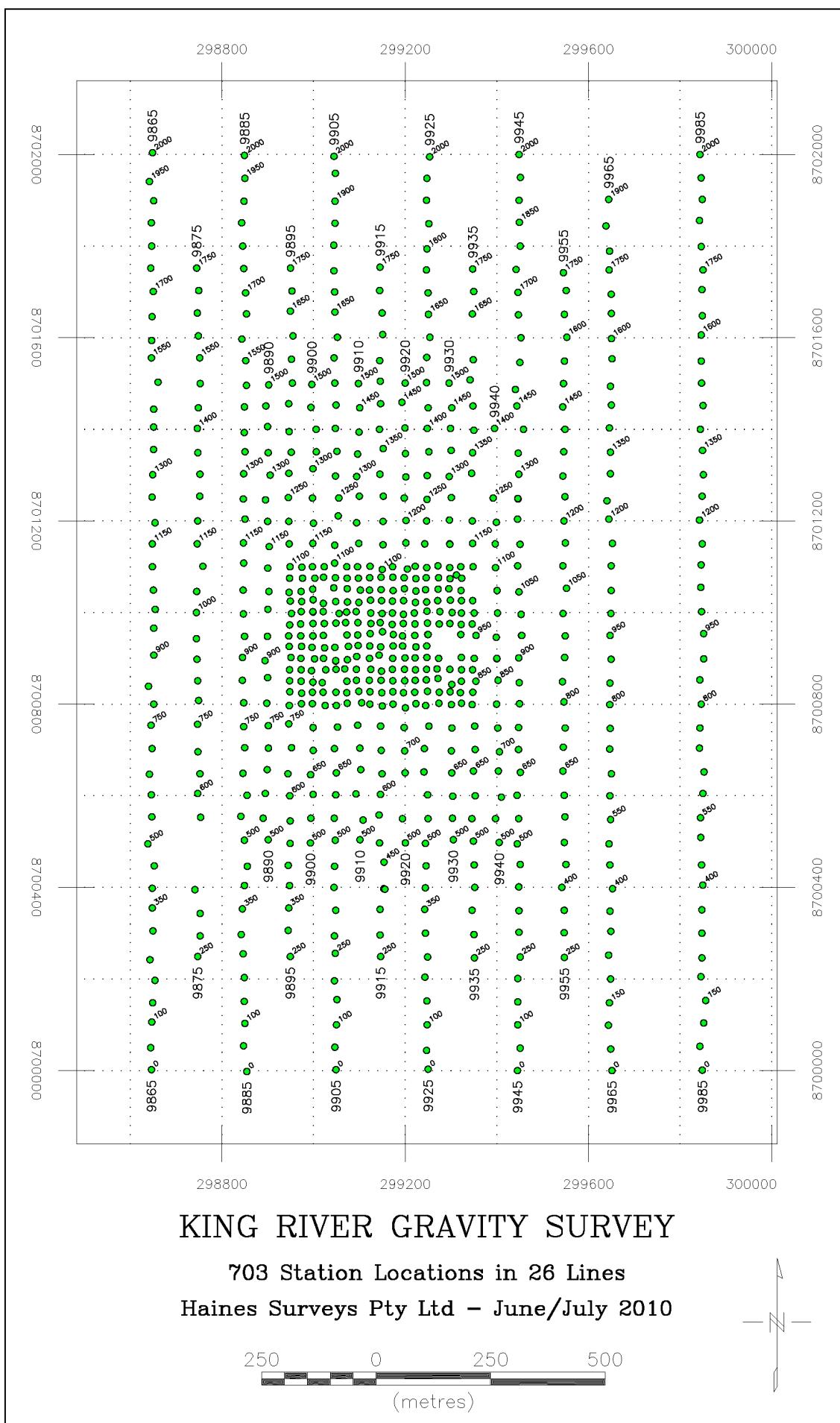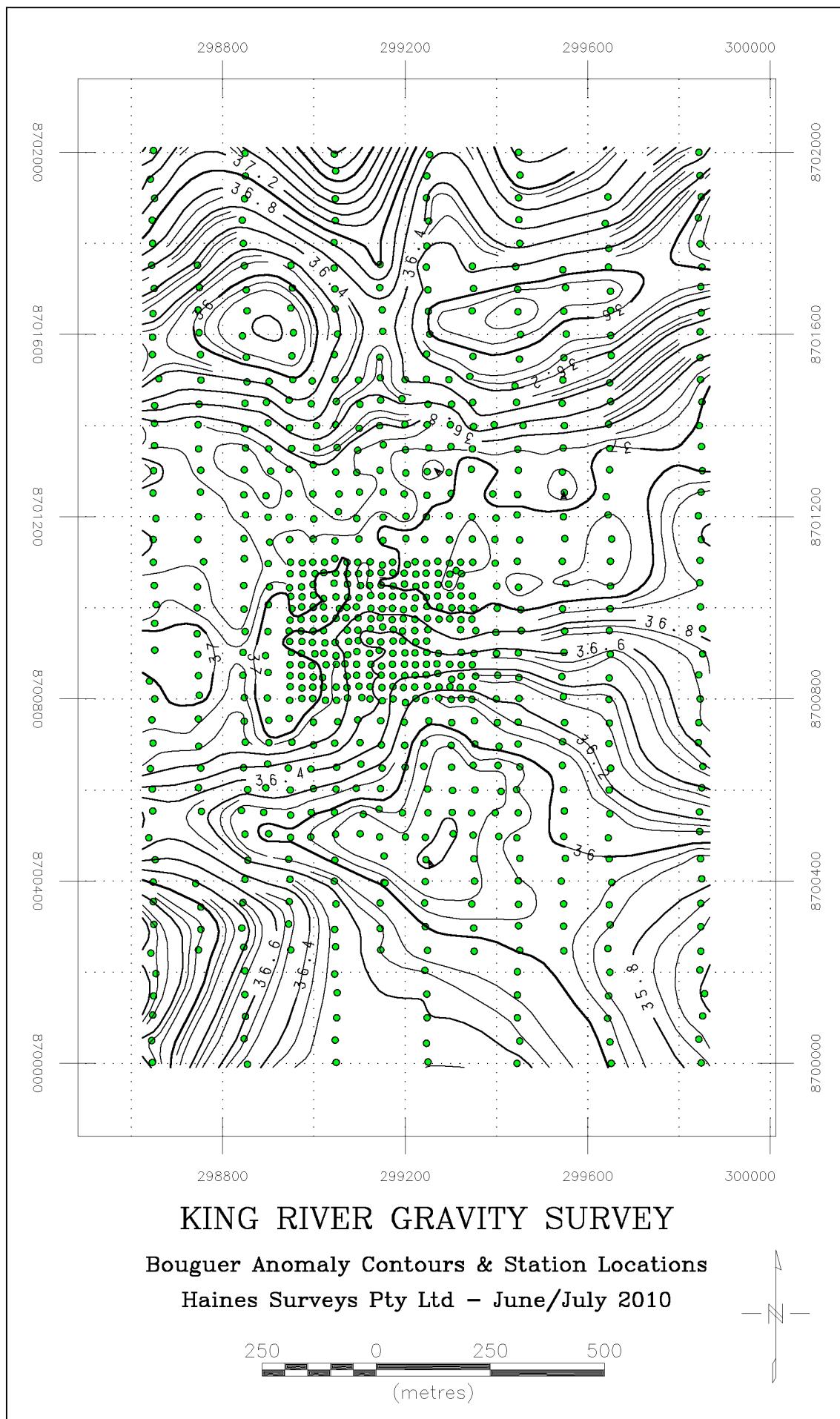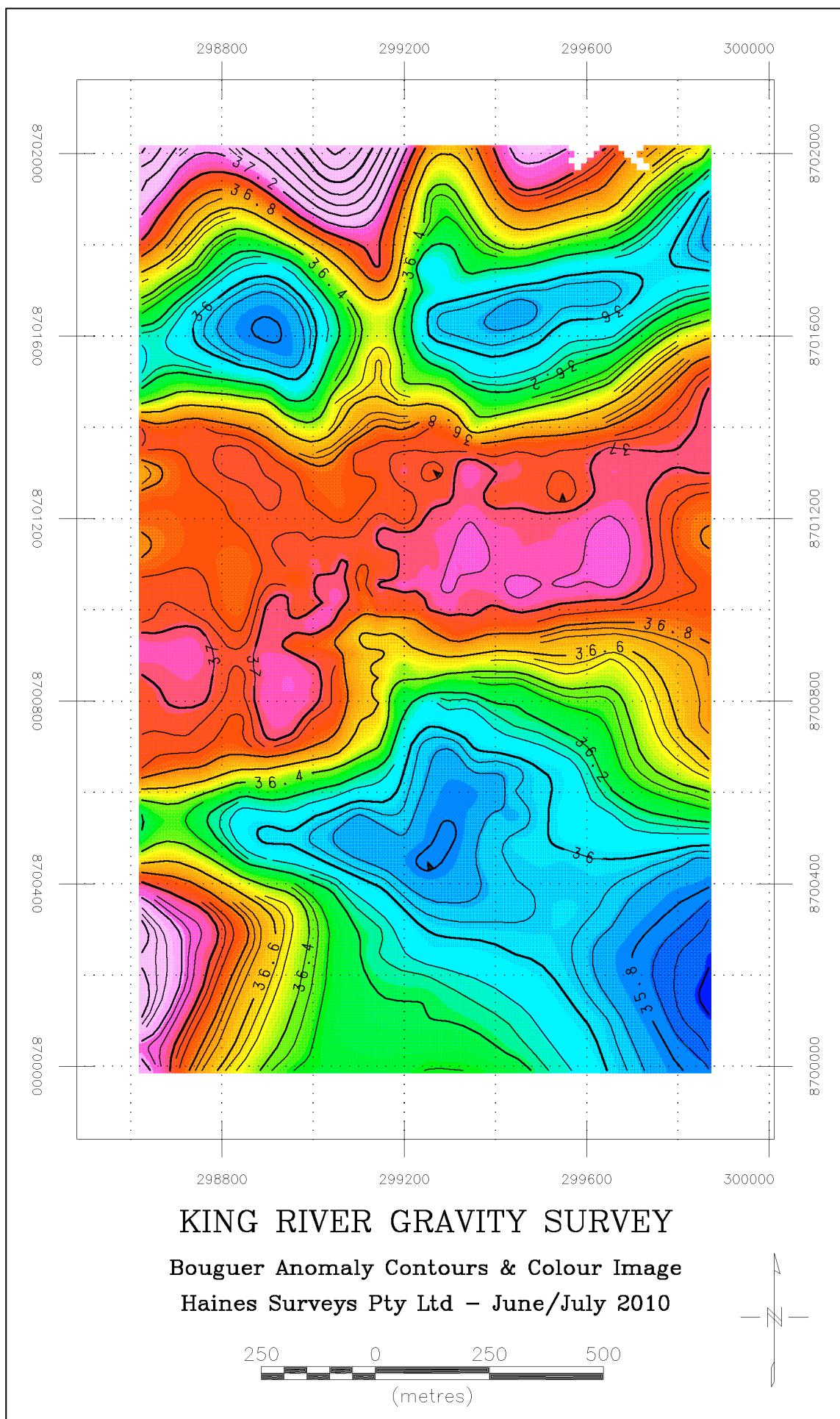
LINE PROFILE BITMAPS

The following line profile bitmaps are located on the CD disc in the processed files folder accompanying this report.

9865.BMP
9875.BMP
9885.BMP
9890.BMP
9895.BMP
9897.BMP
9900.BMP
9902.BMP
9905.BMP
9907.BMP
9910.BMP
9912.BMP
9915.BMP
9917.BMP
9920.BMP
9922.BMP
9925.BMP
9927.BMP
9930.BMP
9932.BMP
9935.BMP
9940.BMP
9945.BMP
9955.BMP
9965.BMP
9985.BMP

PROCESSED RESULTS

KING RIVER GRAVITY SURVEY

/ COORDS		GRID		drift	corr'd	obs	anom	freeair	bouguer	bouguer	height
/ E	N	x	y		meter	mgal		corrn	corrn	anom	(AHD)
/D172											
299311.8	8701081.9	0	2202	+0.000	1786.228	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.009	1786.228	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.068	1786.237	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	+0.003	1786.305	978275.171	29.439	12.070	−4.377	37.133	39.113
299295.4	8701052.0	9930	1050	−0.008	1786.374	978275.308	29.567	11.909	−4.318	37.158	38.592
299297.1	8701097.9	9930	1100	−0.012	1786.291	978275.225	29.499	11.921	−4.323	37.097	38.629
299297.1	8701149.6	9930	1150	−0.014	1786.573	978275.507	29.797	11.423	−4.142	37.078	37.014
299296.6	8701202.0	9930	1200	−0.015	1787.088	978276.022	30.329	10.505	−3.809	37.025	34.040
299300.7	8701250.9	9930	1250	−0.017	1788.379	978277.313	31.636	8.391	−3.042	36.984	27.189
299296.1	8701296.8	9930	1300	−0.019	1789.113	978278.047	32.385	7.165	−2.598	36.952	23.218
299300.3	8701354.1	9930	1350	−0.020	1790.123	978279.057	33.414	5.535	−2.007	36.942	17.935
299298.9	8701401.7	9930	1400	−0.022	1790.241	978279.175	33.547	5.157	−1.870	36.834	16.712
299301.7	8701446.7	9930	1450	−0.026	1790.339	978279.273	33.660	4.517	−1.638	36.539	14.637
299295.8	8701501.0	9930	1500	−0.029	1790.461	978279.395	33.799	3.981	−1.443	36.337	12.899
299346.7	8701652.4	9935	1650	−0.043	1790.515	978279.449	33.903	3.178	−1.152	35.928	10.298
299349.6	8701700.9	9935	1700	−0.039	1790.901	978279.835	34.304	2.703	−0.980	36.027	8.760
299347.3	8701750.3	9935	1750	−0.037	1791.250	978280.184	34.669	2.528	−0.917	36.280	8.191
/D173											
299311.8	8701081.9	0	2202	+0.000	1787.105	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	+0.004	1787.105	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.132	1787.101	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	+0.007	1787.233	978275.171	29.439	12.070	−4.377	37.133	39.113
299295.4	8701052.3	9930	1050	−0.131	1787.222	978275.292	29.551	11.893	−4.313	37.132	38.540
299297.2	8701097.8	9930	1100	−0.008	1787.195	978275.265	29.539	11.917	−4.321	37.134	38.615
299348.1	8701099.7	9935	1100	−0.009	1786.976	978275.046	29.320	12.276	−4.451	37.145	39.781
299347.2	8701150.9	9935	1150	−0.010	1787.363	978275.433	29.724	11.633	−4.218	37.139	37.697
299346.5	8701200.2	9935	1200	−0.010	1788.632	978276.702	31.009	9.567	−3.469	37.107	31.002
299345.0	8701304.2	9935	1300	−0.022	1790.757	978278.827	33.167	6.161	−2.234	37.095	19.965
299347.2	8701349.2	9935	1350	−0.023	1791.122	978279.192	33.547	5.326	−1.931	36.941	17.257
299349.9	8701398.3	9935	1400	−0.025	1791.055	978279.125	33.496	4.649	−1.686	36.459	15.064
299347.9	8701450.9	9935	1450	−0.030	1791.094	978279.164	33.552	4.418	−1.602	36.368	14.315
299396.6	8701149.7	9940	1150	−0.082	1787.146	978275.216	29.506	11.876	−4.306	37.076	38.483
299399.0	8701196.8	9940	1200	−0.083	1788.462	978276.532	30.838	9.719	−3.524	37.033	31.495
299392.0	8701249.9	9940	1250	−0.087	1789.929	978277.999	32.322	7.285	−2.642	36.965	23.607
299446.3	8701248.3	9945	1250	−0.123	1788.844	978276.914	31.236	9.028	−3.274	36.991	29.256
299448.1	8701302.1	9945	1300	−0.122	1790.381	978278.451	32.791	6.591	−2.390	36.992	21.357
299446.7	8701348.1	9945	1350	−0.121	1791.370	978279.440	33.794	4.976	−1.804	36.966	16.123
/D174											
299311.8	8701081.9	0	2202	+0.000	1788.158	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	+0.000	1788.158	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.048	1788.158	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.002	1788.206	978275.171	29.439	12.070	−4.377	37.133	39.113
299305.1	8700504.3	9930	500	−0.014	1786.914	978273.927	28.008	12.196	−4.422	35.781	39.520
299303.1	8700551.2	9930	550	−0.011	1786.883	978273.896	27.992	12.262	−4.446	35.808	39.734
299303.8	8700599.1	9930	600	−0.010	1786.977	978273.990	28.102	12.076	−4.379	35.799	39.133
299301.7	8700650.5	9930	650	−0.009	1787.771	978274.784	28.912	10.894	−3.950	35.856	35.300
299300.8	8700698.3	9930	700	−0.009	1788.443	978275.456	29.600	9.880	−3.583	35.898	32.017
299302.0	8700748.1	9930	750	−0.007	1789.520	978276.533	30.693	8.407	−3.049	36.052	27.244
299300.9	8700798.7	9930	800	−0.006	1789.712	978276.725	30.901	8.254	−2.993	36.162	26.747
299301.8	8700842.6	9930	850	−0.005	1790.076	978277.089	31.280	7.820	−2.836	36.264	25.341
299302.5	8700999.6	9930	1000	−0.003	1788.036	978275.049	29.291	12.204	−4.425	37.070	39.547
299295.3	8701052.0	9930	1050	−0.003	1788.272	978275.285	29.544	11.910	−4.319	37.135	38.593
299297.4	8701149.4	9930	1150	−0.048	1788.489	978275.502	29.792	11.419	−4.141	37.071	37.002
299351.1	8700245.9	9935	250	−0.018	1787.661	978274.674	28.671	11.558	−4.191	36.038	37.454
299350.1	8700296.8	9935	300	−0.019	1787.510	978274.523	28.536	11.676	−4.234	35.979	37.836
299346.0	8700350.2	9935	350	−0.019	1787.347	978274.360	28.391	11.791	−4.275	35.906	38.208
299351.8	8700400.2	9935	400	−0.020	1787.205	978274.218	28.265	11.958	−4.336	35.887	38.749
299350.6	8700448.6	9935	450	−0.021	1787.116	978274.129	28.192	12.093	−4.385	35.900	39.187
299348.9	8700501.0	9935	500	−0.022	1786.976	978273.989	28.069	12.261	−4.446	35.884	39.730
299345.7	8700549.7	9935	550	−0.022	1786.861	978273.874	27.969	12.361	−4.482	35.848	40.054
299352.8	8700599.0	9935	600	−0.023	1786.886	978273.899	28.011	12.252	−4.443	35.820	39.703
299348.9	8700653.7	9935	650	−0.024	1788.088	978275.101	29.230	10.510	−3.811	35.929	34.056
299352.7	8700700.7	9935	700	−0.024	1789.106	978276.119	30.263	9.022	−3.271	36.014	29.234
299351.7	8700751.9	9935	750	−0.025	1789.458	978276.471	30.632	8.492	−3.079	36.045	27.519
299346.2	8700798.7	9935	800	−0.025	1789.838	978276.851	31.027	8.011	−2.905	36.134	25.960
299354.2	8700850.2	9935	850	−0.026	1790.590	978277.603	31.796	7.132	−2.586	36.342	23.110
299350.7	8700900.5	9935	900	−0.026	1790.526	978277.539	31.748	7.586	−2.751	36.584	24.583
299354.6	8700950.0	9935	950	−0.027	1790.120	978277.133	31.358	8.612	−3.123	36.848	27.906
299350.6	8700999.2	9935	1000	−0.027	1788.498	978275.511	29.752	11.420	−4.141	37.032	37.006
299405.1	8700498.2	9940	500	−0.046	1787.044	978274.057	28.136	12.234	−4.436	35.933	39.643
299397.2	8700549.7	9940	550	−0.044	1786.879	978273.892	27.987	12.446	−4.513	35.920	40.330
299409.9	8700597.3	9940	600	−0.043	1786.898	978273.911	28.022	12.304	−4.462	35.865	39.872
299403.4	8700654.0	9940	650	−0.040	1787.650	978274.663	28.792	11.164	−4.048	35.908	36.175
299405.7	8700695.7	9940	700	−0.037	1788.532	978275.545	29.688	9.936	−3.603	36.021	32.197
299402.0	8700748.1	9940	750	−0.036	1789.510	978276.523	30.683	8.529	−3.093	36.119	27.638
299399.5	8700799.5	9940	800	−0.036	1790.253	978277.266	31.442	7.491	−2.716	36.217	24.275
299402.2	8700852.2	9940	850	−0.035	1790.826	978277.839	32.033	6.785	−2.460	36.357	21.986
299399.9	8700899.2	9940	900	−0.034	1790.695	978277.708	31.917	7.245	−2.627	36.535	23.476
299398.8	8700945.8	9940	950	−0.034	1790.373	978277.386	31.610	8.120	−2.944	36.785	26.311
299401.5	8700999.1	9940	1000	−0.033	1789.569	978276.582	30.823	9.630	−3.492	36.961	31.205
299400.5	8701048.1	9940	1050	−0.033	1788.217	978275.230	29.487	11.883	−4.309	37.061	38.505

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/D176
  299311.8   8701081.9       0    2202   +0.000   1790.170   978275.171   29.439   12.070   -4.377   37.133   39.113
  299311.8   8701081.9       0    2202   -0.003   1790.170   978275.171   29.439   12.070   -4.377   37.133   39.113
  299311.8   8701081.9       0    2202   -0.111   1790.173   978275.171   29.439   12.070   -4.377   37.133   39.113
  299311.8   8701081.9       0    2202   +0.000   1790.284   978275.171   29.439   12.070   -4.377   37.133   39.113
  299400.0   8700899.5    9940     900   -0.105   1792.727   978277.725   31.934    7.236   -2.624   36.546   23.449
  299445.0   8700000.2    9945       0   -0.071   1790.342   978275.340   29.257   10.938   -3.966   36.229   35.445
  299450.9   8700048.9    9945      50   -0.068   1790.172   978275.170   29.103   11.070   -4.014   36.159   35.872
  299445.7   8700099.7    9945     100   -0.067   1790.101   978275.099   29.048   11.121   -4.032   36.136   36.036
  299445.8   8700149.5    9945     150   -0.065   1789.935   978274.933   28.898   11.281   -4.091   36.089   36.557
  299445.8   8700200.9    9945     200   -0.063   1789.757   978274.755   28.737   11.475   -4.161   36.051   37.184
  299451.0   8700248.5    9945     250   -0.061   1789.586   978274.584   28.581   11.623   -4.215   35.990   37.664
  299448.3   8700301.6    9945     300   -0.060   1789.469   978274.467   28.482   11.746   -4.259   35.968   38.061
  299448.3   8700348.6    9945     350   -0.058   1789.344   978274.342   28.372   11.838   -4.293   35.918   38.361
  299448.0   8700401.0    9945     400   -0.038   1789.322   978274.320   28.367   11.897   -4.314   35.950   38.551
  299451.1   8700449.7    9945     450   -0.037   1789.287   978274.285   28.348   11.943   -4.331   35.960   38.702
  299444.6   8700495.4    9945     500   -0.035   1789.427   978274.425   28.503   11.731   -4.254   35.980   38.013
  299447.7   8700549.6    9945     550   -0.032   1789.188   978274.186   28.281   11.941   -4.330   35.893   38.695
  299444.2   8700601.2    9945     600   -0.029   1789.437   978274.435   28.547   11.626   -4.216   35.957   37.673
  299451.4   8700650.7    9945     650   -0.028   1789.865   978274.863   28.991   10.902   -3.953   35.940   35.326
  299447.4   8700700.8    9945     700   -0.027   1790.633   978275.631   29.775    9.863   -3.576   36.062   31.960
  299447.5   8700749.1    9945     750   -0.025   1791.573   978276.571   30.731    8.527   -3.092   36.166   27.630
  299449.6   8700801.3    9945     800   -0.024   1792.214   978277.212   31.389    7.557   -2.740   36.206   24.489
  299448.9   8700846.8    9945     850   -0.022   1792.907   978277.905   32.097    6.647   -2.410   36.333   21.539
  299447.9   8700901.4    9945     900   -0.020   1792.889   978277.887   32.096    7.000   -2.538   36.558   22.684
  299453.9   8700949.7    9945     950   -0.019   1792.704   978277.702   31.927    7.651   -2.774   36.804   24.794
  299453.0   8700996.3    9945    1000   -0.017   1792.100   978277.098   31.338    8.921   -3.235   37.024   28.907
  299448.3   8701044.7    9945    1050   -0.015   1790.627   978275.625   29.881   11.407   -4.136   37.152   36.965
  299445.5   8701102.3    9945    1100   -0.013   1789.458   978274.456   28.731   13.051   -4.732   37.049   42.290
  299450.7   8701148.6    9945    1150   -0.012   1789.542   978274.540   28.830   12.884   -4.672   37.042   41.751
  299445.2   8701204.3    9945    1200   -0.010   1791.115   978276.113   30.421   10.364   -3.758   37.027   33.584
  299445.8   8701248.8    9945    1250   -0.009   1791.905   978276.903   31.225    9.015   -3.269   36.972   29.214
  299547.5   8700247.3    9955     250   -0.075   1789.570   978274.568   28.565   11.609   -4.210   35.964   37.619
  299546.9   8700301.1    9955     300   -0.076   1789.496   978274.494   28.508   11.704   -4.244   35.969   37.927
  299547.1   8700350.2    9955     350   -0.077   1789.451   978274.449   28.479   11.774   -4.269   35.984   38.152
  299541.9   8700400.2    9955     400   -0.079   1789.342   978274.340   28.386   11.855   -4.299   35.943   38.417
  299550.9   8700450.4    9955     450   -0.080   1789.717   978274.715   28.778   11.284   -4.092   35.970   36.564
  299547.3   8700498.5    9955     500   -0.082   1790.508   978275.506   29.584   10.114   -3.667   36.031   32.774
  299548.7   8700554.0    9955     550   -0.084   1790.840   978275.838   29.934    9.586   -3.476   36.045   31.063
  299547.1   8700601.4    9955     600   -0.085   1790.915   978275.913   30.025    9.407   -3.411   36.021   30.483
  299544.3   8700654.3    9955     650   -0.087   1791.067   978276.065   30.194    9.152   -3.318   36.027   29.655
  299545.0   8700706.5    9955     700   -0.088   1791.612   978276.610   30.756    8.468   -3.071   36.154   27.441
  299549.2   8700748.0    9955     750   -0.089   1792.119   978277.117   31.276    7.758   -2.813   36.221   25.140
  299546.6   8700804.7    9955     800   -0.090   1792.760   978277.758   31.936    6.891   -2.499   36.328   22.329
  299543.2   8700849.3    9955     850   -0.091   1793.510   978278.508   32.700    5.924   -2.148   36.476   19.195
  299548.0   8700901.5    9955     900   -0.093   1793.218   978278.216   32.425    6.571   -2.383   36.613   21.292
  299549.3   8700948.6    9955     950   -0.095   1793.071   978278.069   32.294    6.936   -2.515   36.714   22.475
  299544.6   8700997.8    9955    1000   -0.097   1792.839   978277.837   32.078    7.618   -2.762   36.933   24.687
  299552.1   8701053.4    9955    1050   -0.101   1791.673   978276.671   30.930    9.670   -3.506   37.093   31.334
/D177
  299311.8   8701081.9       0    2202   +0.000   1791.220   978275.171   29.439   12.070   -4.377   37.133   39.113
  299311.8   8701081.9       0    2202   +0.003   1791.220   978275.171   29.439   12.070   -4.377   37.133   39.113
  299311.8   8701081.9       0    2202   -0.055   1791.217   978275.171   29.439   12.070   -4.377   37.133   39.113
  299311.8   8701081.9       0    2202   -0.001   1791.272   978275.171   29.439   12.070   -4.377   37.133   39.113
  299454.5   8700949.7    9945     950   -0.053   1793.774   978277.728   31.953    7.619   -2.763   36.810   24.690
  299552.1   8701053.4    9955    1050   -0.004   1792.744   978276.698   30.957    9.703   -3.518   37.141   31.443
  299651.3   8700000.5    9965       0   -0.026   1791.675   978275.629   29.545   10.101   -3.663   35.984   32.732
  299648.6   8700047.1    9965      50   -0.025   1791.794   978275.748   29.679    9.864   -3.577   35.967   31.964
  299643.6   8700099.4    9965     100   -0.024   1791.591   978275.545   29.493   10.142   -3.678   35.958   32.865
  299645.7   8700147.5    9965     150   -0.023   1791.199   978275.153   29.117   10.645   -3.860   35.902   34.494
  299648.4   8700199.5    9965     200   -0.022   1790.775   978274.729   28.710   11.211   -4.065   35.856   36.328
  299644.0   8700251.9    9965     250   -0.022   1790.594   978274.548   28.546   11.465   -4.157   35.854   37.152
  299648.9   8700303.5    9965     300   -0.018   1790.568   978274.522   28.537   11.563   -4.193   35.907   37.468
  299647.0   8700348.1    9965     350   -0.017   1790.557   978274.511   28.540   11.609   -4.209   35.940   37.617
  299652.5   8700397.0    9965     400   -0.014   1790.553   978274.507   28.552   11.609   -4.209   35.952   37.618
  299646.8   8700448.7    9965     450   -0.013   1791.115   978275.069   29.131   10.766   -3.904   35.993   34.888
  299644.9   8700494.7    9965     500   -0.012   1791.823   978275.777   29.854    9.737   -3.531   36.060   31.551
  299648.3   8700548.4    9965     550   -0.011   1792.342   978276.296   30.390    8.921   -3.235   36.076   28.907
  299646.8   8700599.9    9965     600   -0.011   1792.980   978276.934   31.045    8.058   -2.922   36.181   26.112
  299650.1   8700647.5    9965     650   -0.010   1793.436   978277.390   31.517    7.430   -2.694   36.252   24.076
  299646.4   8700701.7    9965     700   -0.009   1793.323   978277.277   31.421    7.602   -2.757   36.267   24.634
  299647.4   8700746.8    9965     750   -0.009   1793.484   978277.438   31.597    7.386   -2.678   36.305   23.934
  299646.5   8700798.7    9965     800   -0.008   1793.666   978277.620   31.796    7.114   -2.580   36.330   23.054
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  299649.4   8700897.7    9965     900   -0.007   1794.366   978278.320   32.528    6.241   -2.263   36.506   20.223
  299647.2   8700950.0    9965     950   -0.006   1794.808   978278.762   32.987    5.829   -2.114   36.702   18.888
  299649.0   8700998.2    9965    1000   -0.006   1794.565   978278.519   32.759    6.490   -2.353   36.896   21.029
  299649.6   8701047.9    9965    1050   -0.005   1794.568   978278.522   32.779    6.803   -2.468   37.116   22.051
  299848.5   8700000.6    9985       0   -0.027   1792.092   978276.046   29.962    9.103   -3.301   35.764   29.497
  299843.2   8700053.0    9985      50   -0.028   1791.833   978275.787   29.720    9.432   -3.420   35.732   30.565
  299851.5   8700103.8    9985     100   -0.029   1791.385   978275.339   29.289    9.955   -3.610   35.634   32.260
  299855.8   8700152.8    9985     150   -0.029   1791.079   978275.033   28.998   10.316   -3.741   35.574   33.430
  299845.5   8700205.2    9985     200   -0.030   1790.929   978274.883   28.865   10.623   -3.852   35.637   34.424
  299847.7   8700246.0    9985     250   -0.031   1790.840   978274.794   28.790   10.739   -3.894   35.635   34.799
  299847.6   8700299.5    9985     300   -0.032   1790.850   978274.804   28.817   10.823   -3.925   35.716   35.072
  299847.5   8700350.6    9985     350   -0.032   1790.832   978274.786   28.816   10.890   -3.949   35.757   35.288
  299849.6   8700405.4    9985     400   -0.033   1790.839   978274.793   28.840   10.981   -3.982   35.839   35.582
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  299845.1   8700509.0    9985     500   -0.035   1791.859   978275.813   29.894    9.729   -3.528   36.095   31.526
  299844.6   8700551.8    9985     550   -0.035   1792.495   978276.449   30.544    8.971   -3.253   36.262   29.071
  299849.8   8700604.9    9985     600   -0.036   1793.099   978277.053   31.165    8.183   -2.967   36.381   26.518
  299852.2   8700652.3    9985     650   -0.036   1793.770   978277.724   31.852    7.365   -2.671   36.546   23.867
  299842.3   8700703.6    9985     700   -0.037   1794.268   978278.222   32.366    6.647   -2.410   36.603   21.540
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299846.1	8700799.8	9985	800	−0.039	1794.834	978278.788	32.964	5.844	−2.119	36.688	18.936
299843.1	8700852.6	9985	850	−0.039	1795.030	978278.984	33.177	5.552	−2.013	36.716	17.992
299851.6	8700898.8	9985	900	−0.040	1794.992	978278.946	33.154	5.614	−2.036	36.732	18.193
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299846.8	8701002.1	9985	1000	−0.041	1795.103	978279.057	33.298	5.631	−2.042	36.888	18.248
299845.2	8701055.3	9985	1050	−0.042	1795.526	978279.480	33.739	4.958	−1.798	36.899	16.066
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299848.4	8701150.2	9985	1150	−0.044	1795.356	978279.310	33.599	5.005	−1.815	36.790	16.218
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299311.8	8701081.9	0	2202	−0.133	1792.244	978275.171	29.439	12.070	−4.377	37.133	39.113
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299544.2	8701102.1	9955	1100	−0.107	1792.306	978275.233	29.507	11.820	−4.286	37.041	38.302
299549.6	8701152.4	9955	1150	−0.109	1791.824	978274.751	29.042	12.568	−4.557	37.053	40.726
299546.6	8701199.6	9955	1200	−0.110	1791.932	978274.859	29.165	12.345	−4.476	37.034	40.004
299548.7	8701253.3	9955	1250	−0.111	1792.425	978275.352	29.675	11.349	−4.115	36.910	36.777
299544.2	8701298.1	9955	1300	−0.113	1793.498	978276.425	30.763	9.691	−3.514	36.940	31.402
299546.1	8701350.8	9955	1350	−0.115	1796.105	978279.032	33.387	5.613	−2.035	36.965	18.189
299548.8	8701400.1	9955	1400	−0.117	1796.468	978279.395	33.766	4.592	−1.665	36.693	14.881
299543.9	8701449.3	9955	1450	−0.118	1796.550	978279.477	33.864	4.048	−1.468	36.444	13.118
299545.4	8701500.3	9955	1500	−0.119	1796.682	978279.609	34.013	3.470	−1.258	36.225	11.245
299649.6	8701101.9	9965	1100	−0.090	1794.057	978276.984	31.258	9.227	−3.346	37.139	29.900
299652.3	8701150.8	9965	1150	−0.089	1793.190	978276.117	30.407	10.599	−3.843	37.163	34.344
299644.6	8701203.6	9965	1200	−0.087	1792.579	978275.506	29.813	11.451	−4.152	37.112	37.106
299640.4	8701244.1	9965	1250	−0.086	1792.776	978275.703	30.023	10.977	−3.980	37.020	35.569
299647.8	8701302.9	9965	1300	−0.084	1794.006	978276.933	31.272	9.052	−3.282	37.042	29.332
299648.0	8701349.6	9965	1350	−0.083	1795.906	978278.833	33.188	6.017	−2.182	37.023	19.497
299645.7	8701403.2	9965	1400	−0.079	1796.485	978279.412	33.784	4.704	−1.706	36.782	15.242
299650.0	8701453.2	9965	1450	−0.077	1796.712	978279.639	34.027	4.025	−1.459	36.593	13.042
299648.0	8701494.2	9965	1500	−0.076	1796.845	978279.772	34.174	3.486	−1.264	36.395	11.295
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299650.2	8701597.5	9965	1600	−0.066	1797.228	978280.155	34.590	2.349	−0.852	36.088	7.613
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299649.7	8701695.3	9965	1700	−0.063	1797.282	978280.209	34.676	1.948	−0.706	35.917	6.312
299645.2	8701747.7	9965	1750	−0.062	1797.439	978280.366	34.850	1.821	−0.660	36.011	5.902
299646.0	8701788.8	9965	1800	−0.058	1797.853	978280.780	35.277	1.440	−0.522	36.195	4.666
299638.2	8701844.3	9965	1850	−0.055	1798.321	978281.248	35.763	1.074	−0.390	36.448	3.481
299644.2	8701901.6	9965	1900	−0.048	1798.674	978281.601	36.135	0.926	−0.336	36.725	3.001
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299844.2	8701399.5	9985	1400	−0.014	1797.435	978280.362	34.732	3.564	−1.292	37.004	11.548
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299846.9	8701501.1	9985	1500	−0.021	1797.761	978280.688	35.091	2.910	−1.055	36.946	9.429
299846.2	8701548.8	9985	1550	−0.024	1797.785	978280.712	35.131	2.620	−0.950	36.801	8.490
299846.2	8701606.3	9985	1600	−0.031	1797.683	978280.610	35.047	2.287	−0.829	36.505	7.412
299848.6	8701648.2	9985	1650	−0.032	1797.590	978280.517	34.968	2.118	−0.768	36.318	6.864
299847.7	8701704.6	9985	1700	−0.033	1797.493	978280.420	34.889	1.921	−0.696	36.114	6.224
299850.0	8701748.5	9985	1750	−0.034	1797.418	978280.345	34.829	1.826	−0.662	35.992	5.916
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299848.4	8701901.9	9985	1900	−0.039	1797.693	978280.620	35.153	1.325	−0.480	35.998	4.292
299845.9	8701949.3	9985	1950	−0.040	1798.011	978280.938	35.487	1.164	−0.422	36.229	3.772
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299311.8	8701081.9	0	2202	+0.003	1793.396	978275.171	29.439	12.070	−4.377	37.133	39.113
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299247.3	8700901.5	9925	900	−0.068	1795.267	978277.114	31.324	8.248	−2.991	36.581	26.726
299249.3	8700952.1	9925	950	−0.067	1794.987	978276.834	31.060	9.021	−3.271	36.810	29.232
299247.6	8701002.8	9925	1000	−0.066	1794.886	978276.733	30.976	9.464	−3.432	37.008	30.666
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299242.7	8701149.7	9925	1150	−0.064	1793.363	978275.210	29.501	11.826	−4.288	37.038	38.321
299246.7	8701200.4	9925	1200	−0.063	1793.691	978275.538	29.845	11.244	−4.077	37.012	36.435
299247.7	8701247.0	9925	1250	−0.063	1794.232	978276.079	30.401	10.308	−3.738	36.972	33.404
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299246.6	8701501.5	9925	1500	−0.055	1797.414	978279.261	33.666	4.269	−1.548	36.387	13.835
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  299197.7  8700749.6   9920    750   −0.109  1794.630  978275.483  29.643  10.202  −3.699  36.146  33.059
  299200.4  8700792.5   9920    800   −0.105  1795.101  978275.954  30.129   9.607  −3.484  36.252  31.132
  299199.0  8700850.6   9920    850   −0.103  1795.547  978276.400  30.593   9.136  −3.313  36.417  29.605
  299199.6  8700901.4   9920    900   −0.102  1795.553  978276.406  30.616   9.323  −3.380  36.558  30.210
  299194.3  8700949.1   9920    950   −0.101  1795.476  978276.329  30.555   9.566  −3.469  36.652  30.997
  299196.2  8700996.1   9920   1000   −0.097  1795.398  978276.251  30.492  10.098  −3.662  36.928  32.722
  299250.0  8700003.4   9925      0   −0.043  1794.525  978275.378  29.296  10.973  −3.979  36.290  35.558
  299246.7  8700043.6   9925     50   −0.041  1794.414  978275.267  29.198  11.032  −4.000  36.230  35.750
  299247.9  8700099.5   9925    100   −0.039  1794.291  978275.144  29.093  11.150  −4.043  36.200  36.131
  299247.4  8700151.6   9925    150   −0.035  1794.201  978275.054  29.020  11.263  −4.084  36.199  36.496
  299243.1  8700203.5   9925    200   −0.034  1794.059  978274.912  28.895  11.384  −4.128  36.151  36.890
  299248.9  8700248.2   9925    250   −0.030  1793.869  978274.722  28.720  11.477  −4.162  36.035  37.190
  299244.2  8700300.0   9925    300   −0.028  1793.758  978274.611  28.626  11.573  −4.197  36.002  37.503
  299242.6  8700351.7   9925    350   −0.027  1793.621  978274.474  28.505  11.641  −4.221  35.925  37.723
  299244.0  8700399.2   9925    400   −0.025  1793.430  978274.283  28.330  11.803  −4.280  35.853  38.248
  299245.6  8700447.4   9925    450   −0.024  1793.222  978274.075  28.137  11.969  −4.340  35.766  38.784
  299244.2  8700495.8   9925    500   −0.022  1793.171  978274.024  28.102  12.127  −4.397  35.832  39.298
  299249.9  8700549.5   9925    550   −0.020  1793.109  978273.962  28.058  12.212  −4.428  35.841  39.571
  299249.0  8700602.5   9925    600   −0.018  1793.210  978274.063  28.176  12.104  −4.389  35.891  39.221
  299240.9  8700652.5   9925    650   −0.015  1793.928  978274.781  28.910  11.001  −3.989  35.922  35.648
  299241.9  8700703.2   9925    700   −0.014  1794.595  978275.448  29.594   9.950  −3.608  35.936  32.242
  299251.8  8700752.5   9925    750   −0.012  1794.943  978275.796  29.958   9.507  −3.447  36.017  30.808
  299244.7  8700797.1   9925    800   −0.010  1795.275  978276.128  30.304   9.095  −3.298  36.101  29.472
  299246.2  8700853.3   9925    850   −0.009  1796.340  978277.193  31.387   7.938  −2.879  36.447  25.724
  299250.0  8700952.2   9925    950   −0.125  1795.940  978276.793  31.019   9.011  −3.267  36.763  29.198
/D184
  299311.8  8701081.9      0   2202   +0.000  1798.531  978275.171  29.439  12.070  −4.377  37.133  39.113
  299311.8  8701081.9      0   2202   +0.003  1798.531  978275.171  29.439  12.070  −4.377  37.133  39.113
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  299311.8  8701081.9      0   2202   −0.008  1800.137  978275.171  29.439  12.070  −4.377  37.133  39.113
  299093.0  8701001.7   9910   1000   −1.444  1798.554  978275.197  29.440  11.869  −4.304  37.005  38.460
  299149.6  8700997.9   9915   1000   −1.300  1799.165  978275.808  30.049  10.812  −3.921  36.941  35.036
  299147.5  8701050.0   9915   1050   −1.275  1798.285  978274.928  29.186  12.341  −4.475  37.052  39.989
  299149.9  8701094.1   9915   1100   −1.240  1798.180  978274.823  29.096  12.298  −4.459  36.934  39.850
  299151.6  8701148.4   9915   1150   −1.192  1798.534  978275.177  29.467  11.863  −4.302  37.029  38.441
  299151.6  8701199.1   9915   1200   −1.172  1798.882  978275.525  29.832  11.229  −4.072  36.989  36.387
  299152.3  8701253.9   9915   1250   −1.158  1798.871  978275.514  29.839  11.086  −4.020  36.904  35.922
  299144.9  8701301.8   9915   1300   −1.136  1799.557  978276.200  30.540   9.984  −3.620  36.904  32.352
  299152.0  8701357.9   9915   1350   −1.123  1801.765  978278.408  32.766   6.526  −2.366  36.926  21.147
  299144.0  8701399.7   9915   1400   −1.111  1802.824  978279.467  33.839   4.677  −1.696  36.820  15.155
  299146.3  8701455.8   9915   1450   −1.053  1802.484  978279.127  33.517   4.886  −1.772  36.631  15.832
  299145.7  8701504.8   9915   1500   −0.966  1802.643  978279.286  33.692   4.488  −1.627  36.553  14.544
  299144.4  8701549.9   9915   1550   −0.917  1802.812  978279.455  33.876   4.216  −1.529  36.563  13.663
  299150.9  8701606.6   9915   1600   −0.864  1802.924  978279.567  34.006   3.849  −1.396  36.460  12.474
  299149.7  8701653.8   9915   1650   −0.847  1803.079  978279.722  34.176   3.624  −1.314  36.486  11.742
  299144.3  8701702.6   9915   1700   −0.831  1803.526  978280.169  34.639   3.326  −1.206  36.759  10.777
  299145.1  8701754.3   9915   1750   −0.816  1803.841  978280.484  34.971   3.247  −1.177  37.041  10.522
  299198.3  8701052.0   9920   1050   −0.106  1798.090  978274.733  28.992  12.802  −4.642  37.152  41.484
  299204.8  8701095.2   9920   1100   −0.119  1798.280  978274.923  29.196  12.365  −4.483  37.077  40.067
  299201.6  8701152.2   9920   1150   −0.131  1798.385  978275.028  29.319  12.109  −4.391  37.038  39.238
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  299197.9  8701250.4   9920   1250   −0.159  1798.835  978275.478  29.801  11.190  −4.058  36.934  36.261
  299201.4  8701296.4   9920   1300   −0.176  1799.302  978275.945  30.283  10.543  −3.823  37.003  34.163
  299200.0  8701346.8   9920   1350   −0.194  1800.581  978277.224  31.579   8.427  −3.056  36.950  27.307
  299199.5  8701403.1   9920   1400   −0.212  1802.513  978279.156  33.529   5.064  −1.836  36.757  16.411
  299192.9  8701458.7   9920   1450   −0.229  1802.597  978279.240  33.631   4.551  −1.650  36.531  14.746
  299200.0  8701500.9   9920   1500   −0.260  1802.459  978279.102  33.507   4.496  −1.630  36.372  14.569
  299253.8  8701600.8   9920   1600   −0.452  1802.574  978279.217  33.654   3.678  −1.334  35.998  11.918
  299250.8  8701651.4   9925   1650   −0.471  1802.749  978279.392  33.845   3.355  −1.217  35.984  10.872
  299249.9  8701698.0   9925   1700   −0.492  1803.105  978279.748  34.217   3.090  −1.120  36.186  10.013
  299246.3  8701747.9   9925   1750   −0.534  1803.027  978279.670  34.155   2.875  −1.042  35.987   9.316
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   299247.6   8701793.5   9925   1800   -0.559   1803.307   978279.950   34.450    2.774   -1.006   36.218    8.990
   299251.7   8701849.3   9925   1850   -0.578   1803.485   978280.128   34.646    2.704   -0.980   36.369    8.762
   299246.5   8701900.3   9925   1900   -0.588   1803.531   978280.174   34.708    2.634   -0.955   36.387    8.534
   299247.4   8701948.0   9925   1950   -0.744   1803.706   978280.349   34.899    2.531   -0.918   36.512    8.202
   299253.4   8701995.4   9925   2000   -0.782   1803.915   978280.558   35.123    2.395   -0.868   36.650    7.761
/D186
   299311.8   8701081.9      0   2202   +0.000   3091.757   978275.171   29.439   12.070   -4.377   37.133   39.113
   299311.8   8701081.9      0   2202   -0.004   3091.757   978275.171   29.439   12.070   -4.377   37.133   39.113
   299311.8   8701081.9      0   2202   -0.123   3091.761   978275.171   29.439   12.070   -4.377   37.133   39.113
   299311.8   8701081.9      0   2202   -0.010   3091.884   978275.171   29.439   12.070   -4.377   37.133   39.113
   299049.0   8700002.1   9905      0   -0.068   3092.096   978275.506   29.424   10.749   -3.898   36.275   34.831
   299046.6   8700051.3   9905     50   -0.066   3092.049   978275.459   29.393   10.763   -3.903   36.253   34.876
   299050.0   8700100.3   9905    100   -0.064   3091.964   978275.374   29.324   10.858   -3.937   36.245   35.184
   299051.1   8700155.1   9905    150   -0.062   3091.843   978275.253   29.221   11.049   -4.006   36.263   35.803
   299045.6   8700196.3   9905    200   -0.059   3091.748   978275.158   29.139   11.188   -4.057   36.271   36.255
   299047.5   8700256.0   9905    250   -0.057   3091.602   978275.012   29.013   11.388   -4.129   36.272   36.903
   299045.5   8700294.4   9905    300   -0.042   3091.517   978274.927   28.940   11.518   -4.177   36.282   37.325
   299048.5   8700350.3   9905    350   -0.039   3091.370   978274.780   28.811   11.658   -4.227   36.242   37.778
   299044.7   8700399.5   9905    400   -0.034   3091.170   978274.580   28.627   11.822   -4.287   36.162   38.307
   299045.9   8700446.4   9905    450   -0.031   3090.873   978274.283   28.346   11.968   -4.339   35.974   38.780
   299047.4   8700503.0   9905    500   -0.029   3090.684   978274.094   28.175   12.133   -4.400   35.908   39.317
   299045.2   8700550.9   9905    550   -0.028   3090.650   978274.060   28.156   12.264   -4.447   35.974   39.742
   299048.6   8700602.4   9905    600   -0.026   3090.755   978274.165   28.278   12.350   -4.478   36.150   40.021
   299049.7   8700649.8   9905    650   -0.025   3090.852   978274.262   28.391   12.534   -4.545   36.380   40.616
   299045.6   8700702.8   9905    700   -0.024   3090.944   978274.354   28.500   12.909   -4.681   36.728   41.832
   299052.3   8700750.2   9905    750   -0.023   3090.877   978274.287   28.448   13.216   -4.792   36.872   42.827
   299049.7   8700796.8   9905    800   -0.022   3090.815   978274.225   28.401   13.397   -4.858   36.940   43.412
   299048.4   8700894.5   9905    900   -0.006   3090.757   978274.167   28.375   13.469   -4.884   36.960   43.646
   299146.5   8700249.2   9915    250   -0.070   3091.483   978274.893   28.891   11.392   -4.131   36.152   36.915
   299145.2   8700296.1   9915    300   -0.072   3091.420   978274.830   28.843   11.507   -4.172   36.178   37.287
   299145.2   8700351.5   9915    350   -0.073   3091.220   978274.630   28.661   11.657   -4.227   36.092   37.775
   299155.8   8700396.4   9915    400   -0.074   3091.054   978274.464   28.510   11.767   -4.267   36.010   38.129
   299200.4   8700497.1   9920    500   -0.082   3090.700   978274.110   28.189   12.097   -4.386   35.899   39.198
   299194.1   8700550.2   9920    550   -0.083   3090.671   978274.081   28.177   12.194   -4.422   35.949   39.514
/D187
   299311.8   8701081.9      0   2202   +0.000   3092.338   978275.171   29.439   12.070   -4.377   37.133   39.113
   299311.8   8701081.9      0   2202   -0.007   3092.338   978275.171   29.439   12.070   -4.377   37.133   39.113
   299311.8   8701081.9      0   2202   -0.108   3092.345   978275.171   29.439   12.070   -4.377   37.133   39.113
   299311.8   8701081.9      0   2202   -0.003   3092.453   978275.171   29.439   12.070   -4.377   37.133   39.113
   299002.2   8700899.4   9900    900   -0.101   3091.461   978274.287   28.497   13.353   -4.842   37.008   43.268
   298998.5   8700949.2   9900    950   -0.103   3091.971   978274.797   29.023   12.594   -4.567   37.050   40.809
   298998.5   8701001.5   9900   1000   -0.104   3091.743   978274.569   28.812   12.786   -4.636   36.961   41.431
   299047.4   8700503.0   9905    500   -0.059   3091.230   978274.056   28.137   12.135   -4.400   35.872   39.323
   299048.4   8700894.6   9905    900   -0.099   3091.332   978274.158   28.366   13.431   -4.870   36.927   43.522
   299055.8   8700997.8   9905   1000   -0.065   3092.517   978275.343   29.585   11.633   -4.218   36.999   37.696
   299044.2   8701054.1   9905   1050   -0.066   3092.777   978275.603   29.863   11.242   -4.076   37.028   36.428
   299045.9   8701107.9   9905   1100   -0.067   3093.230   978276.056   30.333   10.430   -3.782   36.981   33.798
   299046.2   8701147.3   9905   1150   -0.067   3093.515   978276.341   30.631    9.932   -3.601   36.962   32.183
   299053.8   8701210.8   9905   1200   -0.068   3094.129   978276.955   31.266    8.784   -3.185   36.865   28.464
   299055.2   8701250.4   9905   1250   -0.069   3095.198   978278.024   32.348    7.085   -2.569   36.863   22.957
   299047.9   8701298.4   9905   1300   -0.070   3096.100   978278.926   33.265    5.620   -2.038   36.847   18.210
   299051.1   8701351.9   9905   1350   -0.071   3095.990   978278.816   33.173    5.604   -2.032   36.745   18.160
   299047.6   8701402.0   9905   1400   -0.072   3095.937   978278.763   33.136    5.418   -1.965   36.589   17.556
   299049.1   8701452.7   9905   1450   -0.072   3096.117   978278.943   33.332    4.981   -1.806   36.507   16.140
   299046.5   8701501.1   9905   1500   -0.073   3096.227   978279.053   33.458    4.535   -1.645   36.349   14.697
   299044.8   8701555.7   9905   1550   -0.074   3096.388   978279.214   33.637    4.090   -1.483   36.244   13.255
   299052.1   8701601.1   9905   1600   -0.075   3096.426   978279.252   33.689    3.885   -1.409   36.166   12.590
   299046.7   8701656.3   9905   1650   -0.075   3096.564   978279.390   33.845    3.678   -1.334   36.190   11.917
   299046.0   8701700.5   9905   1700   -0.076   3096.740   978279.566   34.036    3.610   -1.309   36.337   11.697
   299044.5   8701745.8   9905   1750   -0.077   3096.937   978279.763   34.247    3.604   -1.307   36.545   11.680
   299044.2   8701801.9   9905   1800   -0.077   3097.254   978280.080   34.583    3.535   -1.282   36.836   11.454
   299046.9   8701850.3   9905   1850   -0.078   3097.722   978280.548   35.066    3.450   -1.251   37.265   11.178
   299046.9   8701898.1   9905   1900   -0.079   3098.208   978281.034   35.568    3.371   -1.222   37.716   10.922
   299047.6   8701959.1   9905   1950   -0.080   3098.719   978281.545   36.099    3.267   -1.185   38.181   10.586
   299044.7   8701995.5   9905   2000   -0.080   3098.937   978281.763   36.329    3.259   -1.182   38.406   10.560
   299101.3   8700503.7   9910    500   -0.058   3091.195   978274.021   28.102   12.136   -4.400   35.837   39.325
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   299103.1   8700657.2   9910    650   -0.044   3091.364   978274.190   28.321   12.477   -4.524   36.274   40.432
   299101.1   8700704.0   9910    700   -0.029   3091.400   978274.226   28.372   12.752   -4.624   36.500   41.323
   299096.3   8700754.3   9910    750   -0.026   3091.415   978274.241   28.403   12.848   -4.659   36.592   41.632
   299105.1   8700803.4   9910    800   -0.025   3092.436   978275.262   29.440   11.349   -4.115   36.674   36.775
   299093.6   8700852.3   9910    850   -0.019   3091.702   978274.528   28.722   12.512   -4.537   36.697   40.545
   299102.2   8701048.7   9910   1050   -0.095   3092.576   978275.402   29.660   11.363   -4.120   36.903   36.822
   299096.0   8701100.5   9910   1100   -0.094   3092.950   978275.776   30.051   10.764   -3.903   36.912   34.881
   299098.8   8701150.7   9910   1150   -0.094   3093.211   978276.037   30.328   10.403   -3.772   36.959   33.710
   299093.9   8701196.0   9910   1200   -0.093   3093.470   978276.296   30.602    9.895   -3.588   36.909   32.065
   299100.0   8701254.2   9910   1250   -0.092   3093.372   978276.198   30.523    9.714   -3.618   36.883   32.335
   299094.1   8701296.6   9910   1300   -0.091   3094.817   978277.643   31.982    7.725   -2.801   36.906   25.034
   299096.2   8701346.0   9910   1350   -0.090   3095.536   978278.362   32.717    6.594   -2.391   36.919   21.367
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   299100.8   8701446.8   9910   1450   -0.086   3096.197   978279.023   33.410    5.063   -1.836   36.637   16.406
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/D188
   299311.8   8701081.9      0   2202   +0.000   3092.857   978275.171   29.439   12.070   -4.377   37.133   39.113
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   298898.8   8700656.8   9890    650   -0.210   3092.062   978274.369   28.500   12.778   -4.633   36.645   41.405
   298901.6   8700704.4   9890    700   -0.199   3092.164   978274.471   28.618   13.120   -4.757   36.980   42.513
   298901.3   8700752.6   9890    750   -0.192   3092.084   978274.391   28.553   13.312   -4.827   37.038   43.136
   298898.0   8700802.0   9890    800   -0.188   3092.010   978274.317   28.495   13.467   -4.883   37.079   43.640
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298899.8	8700857.7	9890	850	−0.178	3091.896	978274.203	28.399	13.577	−4.923	37.054	43.997
298894.1	8700895.2	9890	900	−0.169	3091.864	978274.171	28.380	13.638	−4.945	37.072	44.192
298899.3	8700947.6	9890	950	−0.167	3091.811	978274.118	28.344	13.639	−4.945	37.037	44.195
298900.3	8701006.6	9890	1000	−0.163	3091.852	978274.159	28.404	13.519	−4.902	37.021	43.808
298902.6	8701046.3	9890	1050	−0.151	3092.133	978274.440	28.698	12.980	−4.707	36.971	42.060
298900.1	8701097.0	9890	1100	−0.154	3092.537	978274.844	29.118	12.228	−4.434	36.912	39.624
298903.3	8701144.5	9890	1150	−0.156	3092.797	978275.104	29.394	11.865	−4.302	36.956	38.448
298949.3	8700248.6	9895	250	−0.094	3092.985	978275.292	29.290	11.283	−4.091	36.482	36.563
298944.7	8700305.9	9895	300	−0.098	3092.884	978275.191	29.208	11.495	−4.168	36.535	37.248
298946.0	8700355.0	9895	350	−0.102	3092.730	978275.037	29.070	11.658	−4.227	36.501	37.778
298947.7	8700403.8	9895	400	−0.115	3092.427	978274.734	28.783	11.810	−4.282	36.311	38.270
298944.8	8700447.8	9895	450	−0.117	3092.090	978274.397	28.460	11.980	−4.344	36.096	38.822
298948.9	8700496.3	9895	500	−0.119	3091.868	978274.175	28.254	12.146	−4.404	35.996	39.358
298949.1	8700545.4	9895	550	−0.120	3091.838	978274.145	28.240	12.289	−4.456	36.073	39.821
298948.2	8700599.6	9895	600	−0.122	3091.889	978274.196	28.309	12.461	−4.518	36.251	40.379
298944.1	8700647.7	9895	650	−0.126	3091.978	978274.285	28.413	12.668	−4.593	36.488	41.050
298952.0	8700704.7	9895	700	−0.128	3092.115	978274.422	28.569	13.120	−4.758	36.932	42.516
298946.0	8700757.3	9895	750	−0.130	3092.198	978274.505	28.669	13.162	−4.773	37.058	42.652
298947.1	8700796.9	9895	800	−0.133	3092.108	978274.415	28.592	13.296	−4.821	37.067	43.086
298947.8	8700851.2	9895	850	−0.135	3092.049	978274.356	28.550	13.429	−4.869	37.110	43.515
298950.7	8700902.1	9895	900	−0.138	3091.906	978274.213	28.424	13.550	−4.913	37.061	43.909
298945.8	8700949.2	9895	950	−0.142	3091.971	978274.278	28.504	13.428	−4.869	37.063	43.513
298951.8	8700998.2	9895	1000	−0.143	3091.930	978274.237	28.479	13.356	−4.843	36.992	43.279
298946.7	8701044.1	9895	1050	−0.146	3092.021	978274.328	28.585	13.195	−4.784	36.995	42.757
298993.2	8700496.9	9900	500	−0.090	3091.797	978274.104	28.183	12.172	−4.414	35.941	39.443
298994.2	8700550.8	9900	550	−0.084	3091.779	978274.086	28.183	12.290	−4.457	36.016	39.826
298999.0	8700602.8	9900	600	−0.076	3091.830	978274.137	28.250	12.463	−4.519	36.194	40.385
298993.6	8700646.4	9900	650	−0.072	3091.968	978274.275	28.403	12.581	−4.562	36.422	40.769
298999.3	8700698.8	9900	700	−0.044	3092.057	978274.364	28.509	12.992	−4.711	36.789	42.099
298999.0	8700748.8	9900	750	−0.038	3092.021	978274.328	28.489	13.211	−4.790	36.909	42.808
298997.5	8700801.1	9900	800	−0.034	3092.117	978274.424	28.602	13.234	−4.799	37.037	42.883
298998.6	8700848.4	9900	850	−0.009	3091.987	978274.294	28.487	13.426	−4.868	37.045	43.507
298998.8	8700949.3	9900	950	−0.006	3092.484	978274.791	29.017	12.580	−4.561	37.035	40.764
298998.8	8701001.3	9900	1000	−0.230	3092.301	978274.608	28.851	12.767	−4.630	36.989	41.372
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299311.8	8701081.9	0	2202	+0.000	3093.452	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.001	3093.452	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.236	3093.453	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	+0.000	3093.689	978275.171	29.439	12.070	−4.377	37.133	39.113
298746.8	8700755.7	9875	750	−0.227	3092.515	978274.233	28.397	13.426	−4.868	36.954	43.505
298749.1	8700807.6	9875	800	−0.221	3092.484	978274.202	28.382	13.571	−4.921	37.032	43.975
298747.2	8700850.7	9875	850	−0.219	3092.367	978274.085	28.279	13.736	−4.981	37.035	44.511
298745.6	8700898.3	9875	900	−0.216	3092.363	978274.081	28.291	13.783	−4.998	37.076	44.663
298744.4	8700943.4	9875	950	−0.214	3092.265	978273.983	28.208	13.862	−5.027	37.043	44.920
298744.4	8701000.4	9875	1000	−0.199	3092.141	978273.859	28.102	13.850	−5.022	36.930	44.881
298841.4	8700554.7	9885	550	−0.124	3092.367	978274.085	28.183	12.362	−4.483	36.063	40.059
298854.9	8700601.3	9885	600	−0.080	3092.420	978274.138	28.251	12.522	−4.541	36.233	40.578
298845.9	8700648.9	9885	650	−0.078	3092.546	978274.264	28.393	12.838	−4.655	36.576	41.601
298849.8	8700704.8	9885	700	−0.075	3092.606	978274.324	28.471	13.208	−4.789	36.890	42.801
298847.5	8700751.4	9885	750	−0.068	3092.441	978274.159	28.321	13.425	−4.868	36.878	43.504
298847.7	8700803.3	9885	800	−0.065	3092.386	978274.104	28.283	13.589	−4.927	36.944	44.033
298844.6	8700852.3	9885	850	−0.061	3092.278	978273.996	28.191	13.704	−4.969	36.926	44.406
298845.0	8700901.9	9885	900	−0.055	3092.286	978274.004	28.215	13.731	−4.979	36.967	44.493
298849.4	8700948.6	9885	950	−0.054	3092.213	978273.931	28.157	13.724	−4.976	36.904	44.471
298846.9	8700996.8	9885	1000	−0.048	3092.224	978273.942	28.184	13.609	−4.935	36.858	44.098
298846.3	8701049.0	9885	1050	−0.171	3092.394	978274.112	28.371	13.286	−4.817	36.839	43.051
298847.6	8701108.3	9885	1100	−0.192	3092.481	978274.199	28.477	13.128	−4.760	36.844	42.539
298901.1	8700504.0	9890	500	−0.147	3092.418	978274.136	28.218	12.148	−4.405	35.961	39.366
298890.0	8700550.6	9890	550	−0.152	3092.396	978274.114	28.211	12.322	−4.468	36.065	39.930
298894.7	8700605.0	9890	600	−0.010	3092.502	978274.220	28.334	12.549	−4.550	36.333	40.663
298945.7	8700949.2	9895	950	−0.233	3092.538	978274.256	28.482	13.432	−4.871	37.044	43.527
/D190											
299311.8	8701081.9	0	2202	+0.000	3094.059	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.002	3094.059	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.203	3094.061	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	+0.001	3094.264	978275.171	29.439	12.070	−4.377	37.133	39.113
298745.0	8701046.5	9875	1050	−0.010	3092.815	978273.925	28.183	13.741	−4.982	36.941	44.526
298758.5	8701101.0	9875	1100	−0.013	3092.955	978274.065	28.341	13.404	−4.860	36.884	43.434
298848.8	8701392.8	9885	1400	−0.169	3097.459	978278.569	32.939	6.132	−2.223	36.848	19.870
298849.2	8701449.3	9885	1450	−0.164	3097.358	978278.468	32.857	5.718	−2.073	36.501	18.528
298853.6	8701495.8	9885	1500	−0.158	3097.220	978278.330	32.734	5.449	−1.976	36.207	17.657
298852.0	8701549.6	9885	1550	−0.154	3097.111	978278.221	32.642	5.144	−1.865	35.921	16.670
298843.6	8701596.6	9885	1600	−0.146	3097.183	978278.293	32.729	4.855	−1.760	35.824	15.732
298853.7	8701652.0	9885	1650	−0.142	3097.453	978278.563	33.017	4.414	−1.601	35.831	14.303
298851.7	8701698.4	9885	1700	−0.136	3097.610	978278.720	33.189	4.307	−1.562	35.934	13.955
298847.7	8701750.9	9885	1750	−0.134	3097.743	978278.853	33.340	4.320	−1.566	36.093	13.998
298845.5	8701799.9	9885	1800	−0.133	3097.899	978279.009	33.511	4.286	−1.554	36.243	13.889
298843.2	8701851.2	9885	1850	−0.132	3098.124	978279.234	33.753	4.261	−1.545	36.469	13.809
298848.2	8701898.1	9885	1900	−0.128	3098.341	978279.451	33.985	4.246	−1.540	36.692	13.760
298850.1	8701947.6	9885	1950	−0.125	3098.618	978279.728	34.278	4.256	−1.543	36.991	13.791
298849.3	8701997.6	9885	2000	−0.119	3098.949	978280.059	34.626	4.307	−1.562	37.371	13.957
298899.7	8701406.4	9890	1400	−0.177	3097.405	978278.515	32.890	5.913	−2.144	36.658	19.160
298896.0	8701450.8	9890	1450	−0.183	3097.437	978278.547	32.936	5.576	−2.022	36.490	18.068
298902.2	8701497.0	9890	1500	−0.187	3097.289	978278.399	32.803	5.262	−1.908	36.157	17.052
298951.4	8701349.8	9895	1350	−0.058	3097.299	978278.409	32.765	6.262	−2.271	36.756	20.291
298946.8	8701394.6	9895	1400	−0.062	3097.371	978278.481	32.852	5.785	−2.098	36.539	18.745
298945.9	8701455.8	9895	1450	−0.068	3097.437	978278.547	32.938	5.129	−1.860	36.206	16.619
298953.8	8701500.7	9895	1500	−0.075	3097.390	978278.500	32.905	4.868	−1.765	36.008	15.774
298951.8	8701553.0	9895	1550	−0.079	3097.322	978278.432	32.854	4.669	−1.693	35.830	15.129
298955.2	8701603.5	9895	1600	−0.096	3097.484	978278.594	33.032	4.397	−1.594	35.835	14.247
298949.4	8701658.3	9895	1650	−0.106	3097.693	978278.803	33.259	4.098	−1.486	35.871	13.280
298952.9	8701701.8	9895	1700	−0.109	3097.871	978278.981	33.451	3.973	−1.441	35.984	12.875
298949.8	8701752.5	9895	1750	−0.112	3098.042	978279.152	33.639	3.905	−1.416	36.128	12.655

298998.8	8700949.3	9900	950	−0.200	3093.683	978274.793	29.019	12.580	−4.561	37.037	40.764
298998.7	8701313.6	9900	1300	−0.026	3097.353	978278.463	32.807	6.281	−2.277	36.810	20.352
299006.0	8701350.6	9900	1350	−0.033	3097.435	978278.545	32.901	5.921	−2.147	36.675	19.186
299005.7	8701400.4	9900	1400	−0.040	3097.486	978278.706	32.968	5.449	−1.976	36.442	17.657
298994.3	8701447.6	9900	1450	−0.044	3097.596	978278.706	33.094	4.962	−1.799	36.257	16.079
298996.3	8701498.2	9900	1500	−0.056	3097.664	978278.774	33.178	4.606	−1.670	36.114	14.926
299047.6	8701402.0	9905	1400	−0.020	3097.621	978278.731	33.104	5.418	−1.965	36.557	17.556
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299311.8	8701081.9	0	2202	+0.000	3094.573	978275.171	29.439	12.070	−4.377	37.133	39.113
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299311.8	8701081.9	0	2202	−0.171	3094.576	978275.171	29.439	12.070	−4.377	37.133	39.113
299311.8	8701081.9	0	2202	−0.003	3094.747	978275.171	29.439	12.070	−4.377	37.133	39.113
298649.5	8700304.7	9865	300	−0.165	3095.385	978275.980	29.997	11.556	−4.190	37.363	37.448
298648.1	8700354.9	9865	350	−0.162	3095.128	978275.723	29.757	11.678	−4.234	37.200	37.841
298648.1	8700397.9	9865	400	−0.160	3094.780	978275.375	29.423	11.858	−4.300	36.981	38.425
298652.3	8700447.3	9865	450	−0.157	3094.256	978274.851	28.915	12.036	−4.364	36.586	39.001
298638.5	8700494.9	9865	500	−0.154	3093.855	978274.450	28.529	12.215	−4.429	36.315	39.583
298647.1	8700553.5	9865	550	−0.152	3093.681	978274.276	28.374	12.433	−4.508	36.299	40.287
298646.0	8700602.5	9865	600	−0.139	3093.758	978274.353	28.467	12.632	−4.580	36.519	40.933
298641.8	8700647.2	9865	650	−0.137	3093.902	978274.497	28.626	12.893	−4.675	36.844	41.780
298647.6	8700703.4	9865	700	−0.132	3093.780	978274.375	28.522	13.166	−4.774	36.914	42.664
298645.3	8700754.0	9865	750	−0.128	3093.658	978274.253	28.416	13.409	−4.862	36.963	43.451
298651.3	8700800.0	9865	800	−0.126	3093.559	978274.154	28.332	13.573	−4.922	36.983	43.982
298639.8	8700839.4	9865	850	−0.124	3093.453	978274.048	28.239	13.729	−4.978	36.990	44.488
298651.4	8700906.7	9865	900	−0.121	3093.426	978274.021	28.234	13.851	−5.022	37.062	44.883
298654.4	8701006.7	9865	1000	−0.095	3093.308	978273.903	28.148	13.804	−5.005	36.947	44.730
298650.5	8701049.0	9865	1050	−0.085	3093.373	978273.968	28.227	13.660	−4.953	36.934	44.265
298648.3	8701100.0	9865	1100	−0.083	3093.495	978274.090	28.366	13.299	−4.822	36.842	43.095
298660.6	8701503.3	9865	1500	−0.057	3097.573	978278.168	32.575	5.740	−2.081	36.233	18.599
298646.2	8701555.5	9865	1550	−0.059	3097.671	978278.266	32.690	5.374	−1.949	36.115	17.414
298646.7	8701594.4	9865	1600	−0.061	3097.744	978278.339	32.775	5.255	−1.905	36.125	17.028
298647.6	8701646.4	9865	1650	−0.064	3097.884	978278.479	32.932	5.230	−1.896	36.265	16.946
298650.2	8701700.7	9865	1700	−0.066	3098.046	978278.641	33.112	5.184	−1.880	36.416	16.799
298644.8	8701752.2	9865	1750	−0.038	3098.254	978278.849	33.336	5.177	−1.877	36.636	16.775
298646.8	8701800.5	9865	1800	−0.037	3098.433	978279.028	33.531	5.177	−1.877	36.831	16.775
298646.0	8701851.1	9865	1850	−0.036	3098.571	978279.166	33.686	5.229	−1.896	37.019	16.945
298651.1	8701899.1	9865	1900	−0.034	3098.716	978279.311	33.846	5.263	−1.909	37.201	17.056
298641.8	8701941.3	9865	1950	−0.032	3098.781	978279.376	33.925	5.422	−1.966	37.381	17.569
298648.6	8702003.5	9865	2000	−0.019	3098.941	978279.536	34.105	5.624	−2.039	37.690	18.224
298744.4	8700943.4	9875	950	−0.008	3093.380	978273.975	28.200	13.857	−5.025	37.032	44.902
298751.6	8701556.1	9875	1550	−0.045	3097.785	978278.380	32.804	5.083	−1.843	36.043	16.470
298748.6	8701603.5	9875	1600	−0.044	3097.838	978278.433	32.872	4.856	−1.761	35.967	15.735
298746.4	8701653.6	9875	1650	−0.042	3097.916	978278.511	32.966	4.769	−1.729	36.006	15.454
298749.4	8701702.6	9875	1700	−0.040	3098.075	978278.670	33.141	4.733	−1.716	36.158	15.336
298745.0	8701751.5	9875	1750	−0.039	3098.261	978278.856	33.343	4.750	−1.722	36.370	15.391
298849.8	8700704.8	9885	700	−0.168	3093.743	978274.338	28.485	13.208	−4.789	36.904	42.801
/D192											
299311.8	8701081.9	0	2202	+0.000	3095.137	978275.171	29.439	12.070	−4.377	37.133	39.113
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299311.8	8701081.9	0	2202	−0.141	3095.146	978275.171	29.439	12.070	−4.377	37.133	39.113
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298646.3	8700002.2	9865	0	−0.125	3096.563	978276.588	30.507	10.430	−3.782	37.155	33.799
298644.6	8700049.6	9865	50	−0.127	3096.451	978276.476	30.410	10.570	−3.833	37.147	34.250
298647.0	8700106.3	9865	100	−0.131	3096.457	978276.482	30.435	10.755	−3.900	37.290	34.850
298649.0	8700148.0	9865	150	−0.133	3096.423	978276.448	30.414	10.904	−3.954	37.365	35.335
298648.2	8701149.8	9865	1150	−0.053	3094.592	978274.617	28.909	12.377	−4.488	36.798	40.107
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299124.9  8700999.0   9912   1000   -0.036  3097.673  978275.336  29.578  11.333  -4.109  36.801  36.724
299124.4  8701026.6   9912   1025   -0.034  3097.475  978275.138  29.389  11.717  -4.249  36.857  37.969
299122.1  8701049.4   9912   1050   -0.034  3097.561  978275.224  29.482  11.670  -4.232  36.921  37.816
299122.5  8701075.9   9912   1075   -0.033  3097.610  978275.273  29.540  11.565  -4.193  36.911  37.475
299123.3  8701101.3   9912   1100   -0.032  3097.734  978275.397  29.672  11.331  -4.109  36.894  36.716
299149.0  8700825.0   9915    825   -0.049  3098.081  978275.744  29.929  10.294  -3.733  36.491  33.358
299148.3  8700871.6   9915    875   -0.049  3097.957  978275.620  29.820  10.528  -3.818  36.531  34.116
299146.5  8700925.0   9915    925   -0.050  3097.959  978275.622  29.840  10.540  -3.822  36.558  34.155
299173.5  8700800.3   9917    800   -0.058  3098.234  978275.897  30.074   9.765  -3.541  36.299  31.644
299173.2  8700826.8   9917    825   -0.056  3098.421  978276.084  30.270   9.643  -3.496  36.416  31.246
299173.0  8700850.7   9917    850   -0.055  3098.312  978275.975  30.169   9.850  -3.572  36.447  31.918
299172.1  8700875.6   9917    875   -0.054  3098.217  978275.880  30.082  10.051  -3.645  36.488  32.570
299172.8  8700900.0   9917    900   -0.054  3098.255  978275.918  30.122  10.039  -3.640  36.527  32.532
299173.7  8700926.7   9917    925   -0.053  3098.319  978275.982  30.200   9.992  -3.623  36.569  32.378
299174.0  8700952.4   9917    950   -0.053  3098.354  978276.017  30.244   9.956  -3.610  36.590  32.262
299196.4  8700824.6   9920    825   -0.062  3098.731  978276.394  30.579   8.932  -3.239  36.272  28.942
299198.5  8700875.5   9920    875   -0.063  3098.588  978276.251  30.453   9.332  -3.384  36.401  30.239
299194.4  8700926.8   9920    925   -0.064  3098.624  978276.287  30.505   9.493  -3.442  36.556  30.760
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299311.8  8701081.9     0    2202   +0.000  3098.089  978275.171  29.439  12.070  -4.377  37.133  39.113
299311.8  8701081.9     0    2202   -0.008  3098.089  978275.171  29.439  12.070  -4.377  37.133  39.113
299311.8  8701081.9     0    2202   -0.099  3098.097  978275.171  29.439  12.070  -4.377  37.133  39.113
299311.8  8701081.9     0    2202   -0.009  3098.196  978275.171  29.439  12.070  -4.377  37.133  39.113
299145.5  8700977.9   9915    975   -0.072  3098.740  978275.814  30.049  10.526  -3.817  36.758  34.110
299148.4  8701025.8   9915   1025   -0.071  3097.897  978274.971  29.221  12.177  -4.415  36.983  39.458
299147.3  8701076.9   9915   1075   -0.071  3097.768  978274.842  29.109  12.338  -4.474  36.973  39.979
299171.7  8700974.2   9917    975   -0.066  3099.035  978276.109  30.343   9.967  -3.614  36.695  32.296
299172.0  8700998.8   9917   1000   -0.067  3098.838  978275.912  30.154  10.572  -3.833  36.892  34.258
299172.2  8701025.0   9917   1025   -0.068  3097.626  978274.700  28.950  12.522  -4.541  36.932  40.577
299173.6  8701048.3   9917   1050   -0.068  3097.499  978274.573  28.831  12.784  -4.636  36.979  41.426
299173.0  8701076.7   9917   1075   -0.069  3097.562  978274.636  28.903  12.670  -4.594  36.979  41.057
299172.5  8701099.5   9917   1100   -0.070  3097.713  978274.787  29.061  12.388  -4.492  36.957  40.141
299195.9  8700976.5   9920    975   -0.065  3099.346  978276.420  30.654   9.495  -3.443  36.706  30.768
299196.5  8701026.5   9920   1025   -0.064  3097.604  978274.678  28.929  12.560  -4.554  36.934  40.699
299197.8  8701075.9   9920   1075   -0.063  3097.616  978274.690  28.957  12.567  -4.557  36.967  40.722
299223.4  8700801.3   9922    800   -0.049  3099.048  978276.122  30.299   9.222  -3.344  36.177  29.883
299220.8  8700825.7   9922    825   -0.050  3099.733  978276.807  30.992   8.380  -3.039  36.334  27.154
299221.9  8700851.8   9922    850   -0.050  3099.781  978276.855  31.049   8.403  -3.047  36.405  27.228
299222.4  8700875.2   9922    875   -0.051  3099.622  978276.696  30.897   8.739  -3.169  36.467  28.317
299221.6  8700901.4   9922    900   -0.052  3099.729  978276.803  31.013   8.695  -3.153  36.555  28.177
299223.4  8700925.3   9922    925   -0.053  3099.905  978276.979  31.197   8.535  -3.095  36.637  27.658
299221.0  8700949.5   9922    950   -0.053  3099.895  978276.969  31.195   8.678  -3.147  36.726  28.121
299221.4  8700975.2   9922    975   -0.054  3099.542  978276.616  30.850   9.254  -3.356  36.749  29.988
299219.9  8700999.2   9922   1000   -0.055  3099.193  978276.267  30.509  10.008  -3.629  36.888  32.431
299222.4  8701022.3   9922   1025   -0.056  3098.445  978275.519  29.768  11.279  -4.090  36.957  36.548
299223.4  8701047.2   9922   1050   -0.057  3098.125  978275.199  29.456  11.831  -4.290  36.997  38.338
299223.3  8701073.9   9922   1075   -0.058  3097.856  978274.930  29.196  12.285  -4.455  37.027  39.810
299221.8  8701101.3   9922   1100   -0.059  3097.847  978274.921  29.196  12.265  -4.447  37.014  39.744
299248.6  8700827.9   9925    825   -0.048  3099.551  978276.625  30.811   8.553  -3.101  36.262  27.714
299246.4  8700876.2   9925    875   -0.047  3099.910  978276.984  31.186   8.281  -3.003  36.464  26.834
299247.0  8700926.8   9925    925   -0.046  3100.053  978277.127  31.345   8.367  -3.034  36.679  27.114
299248.6  8700977.0   9925    975   -0.045  3099.435  978276.509  30.743   9.589  -3.477  36.855  31.071
299246.8  8701023.4   9925   1025   -0.045  3099.161  978276.235  30.485  10.160  -3.684  36.960  32.922
299245.8  8701075.5   9925   1075   -0.044  3098.143  978275.217  29.483  11.879  -4.307  37.055  38.492
299273.6  8700801.8   9927    800   -0.029  3099.468  978276.542  30.719   8.449  -3.063  36.104  27.377
299274.4  8700825.7   9927    825   -0.030  3099.647  978276.721  30.906   8.347  -3.027  36.227  27.048
299271.5  8700855.7   9927    850   -0.031  3100.086  978277.160  31.355   7.916  -2.870  36.401  25.652
299269.5  8700876.8   9927    875   -0.032  3100.279  978277.353  31.555   7.768  -2.817  36.506  25.171
299273.0  8700900.2   9927    900   -0.032  3100.378  978277.452  31.661   7.756  -2.812  36.605  25.134
299274.3  8700975.2   9927    975   -0.034  3098.767  978275.841  30.075  10.712  -3.884  36.902  34.710
299275.7  8701001.8   9927   1000   -0.035  3098.508  978275.582  29.824  11.304  -4.099  37.030  36.630
299270.9  8701025.9   9927   1025   -0.036  3098.665  978275.739  29.989  11.103  -4.026  37.066  35.998
299271.8  8701051.0   9927   1050   -0.037  3098.511  978275.585  29.843  11.341  -4.112  37.072  36.751
299272.9  8701075.7   9927   1075   -0.037  3098.287  978275.361  29.627  11.706  -4.244  37.088  37.931
299271.5  8701101.6   9927   1100   -0.038  3098.080  978275.154  29.429  11.856  -4.299  36.986  38.420
299298.1  8700826.9   9930    825   -0.028  3099.934  978277.008  31.194   7.879  -2.857  36.216  25.531
299297.5  8700875.5   9930    875   -0.028  3100.430  978277.504  31.705   7.506  -2.722  36.490  24.323
299297.5  8700976.3   9930    975   -0.026  3098.249  978275.323  29.557  11.600  -4.206  36.951  37.589
299298.6  8701027.4   9930   1025   -0.025  3098.106  978275.180  29.431  12.021  -4.359  37.093  38.954
299297.8  8701074.5   9930   1075   -0.024  3098.106  978275.180  29.446  11.998  -4.351  37.094  38.880
299322.9  8700801.5   9932    800   -0.011  3099.982  978277.056  31.233   7.665  -2.779  36.119  24.838
299320.5  8700824.8   9932    825   -0.012  3100.155  978277.229  31.414   7.556  -2.740  36.230  24.484
299322.6  8700849.5   9932    850   -0.013  3100.364  978277.438  31.631   7.385  -2.678  36.338  23.931
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299322.9  8700874.7  9932   875  −0.013  3100.553  978277.627  31.828   7.308  −2.650  36.486  23.682
299322.6  8700902.0  9932   900  −0.014  3100.313  978277.387  31.597   7.888  −2.860  36.625  25.561
299321.4  8700952.0  9932   950  −0.015  3099.782  978276.856  31.082   9.168  −3.324  36.926  29.709
299322.5  8700974.5  9932   975  −0.016  3098.464  978275.538  29.771  11.250  −4.079  36.942  36.455
299322.7  8700998.8  9932  1000  −0.017  3097.916  978274.990  29.231  12.198  −4.423  37.006  39.528
299322.8  8701025.6  9932  1025  −0.018  3097.589  978274.663  28.913  12.734  −4.618  37.030  41.265
299321.8  8701048.0  9932  1050  −0.018  3097.818  978274.892  29.149  12.445  −4.513  37.082  40.328
299323.4  8701075.4  9932  1075  −0.019  3097.950  978275.024  29.290  12.229  −4.434  37.085  39.626
299321.3  8701100.5  9932  1100  −0.020  3098.111  978275.185  29.459  11.975  −4.342  37.092  38.804
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299347.1  8700874.8  9935   875  −0.009  3100.595  978277.669  31.870   7.159  −2.596  36.433  23.199
299346.3  8700975.0  9935   975  −0.008  3099.268  978276.342  30.576  10.038  −3.640  36.974  32.527
299347.4  8701025.6  9935  1025  −0.007  3097.628  978274.702  28.952  12.626  −4.578  37.000  40.913
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