

Operations Report

PROPOSAL 11040

Airborne Geophysical Survey



For

Redbank Copper Limited

Attention
Russell Birrell

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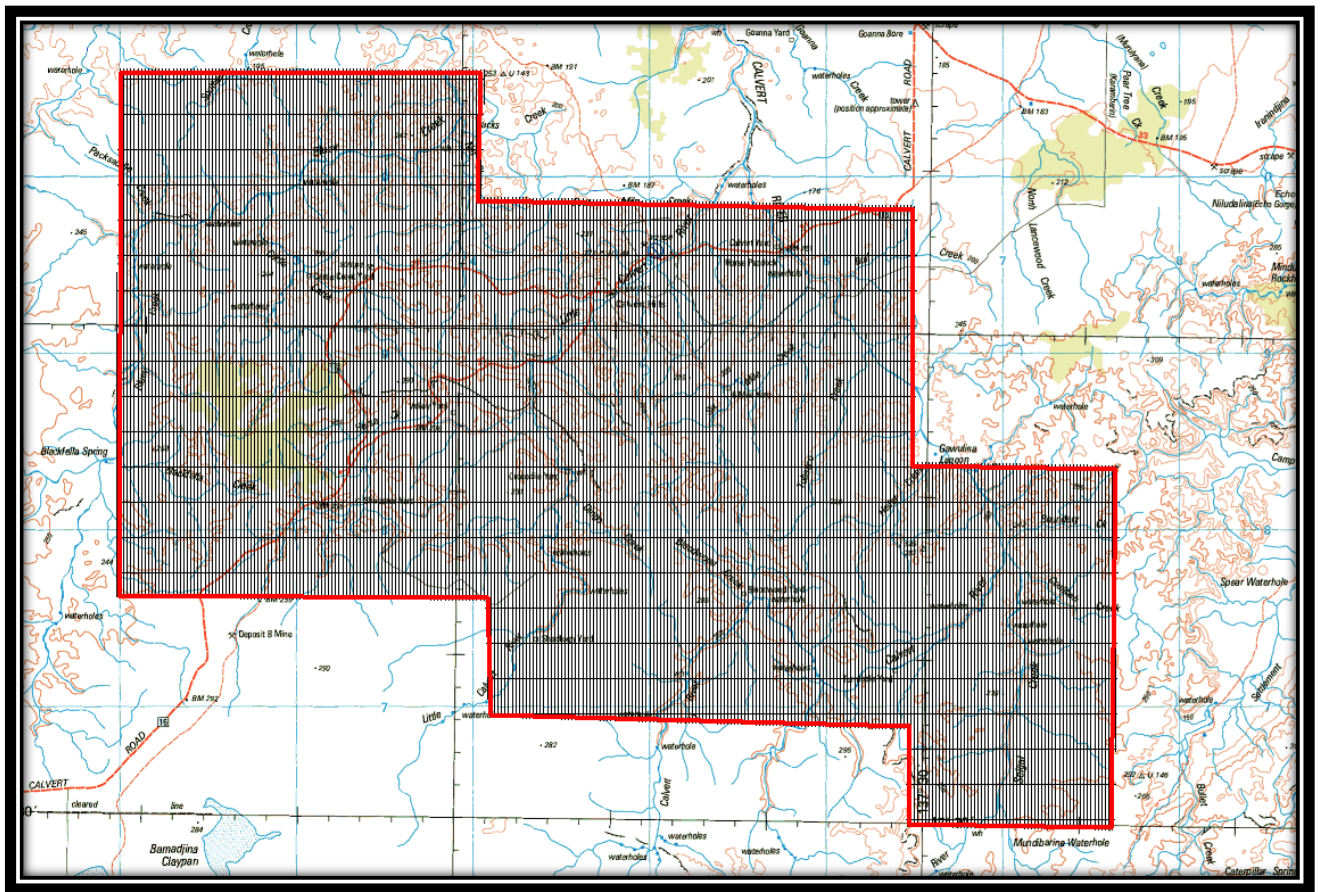
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Prepared by Sheradine Turkington – Operations Manager Geophysical Survey

SPECIFICATIONS FOR AIRBORNE GEOPHYSICAL SURVEY

SURVEY AREA

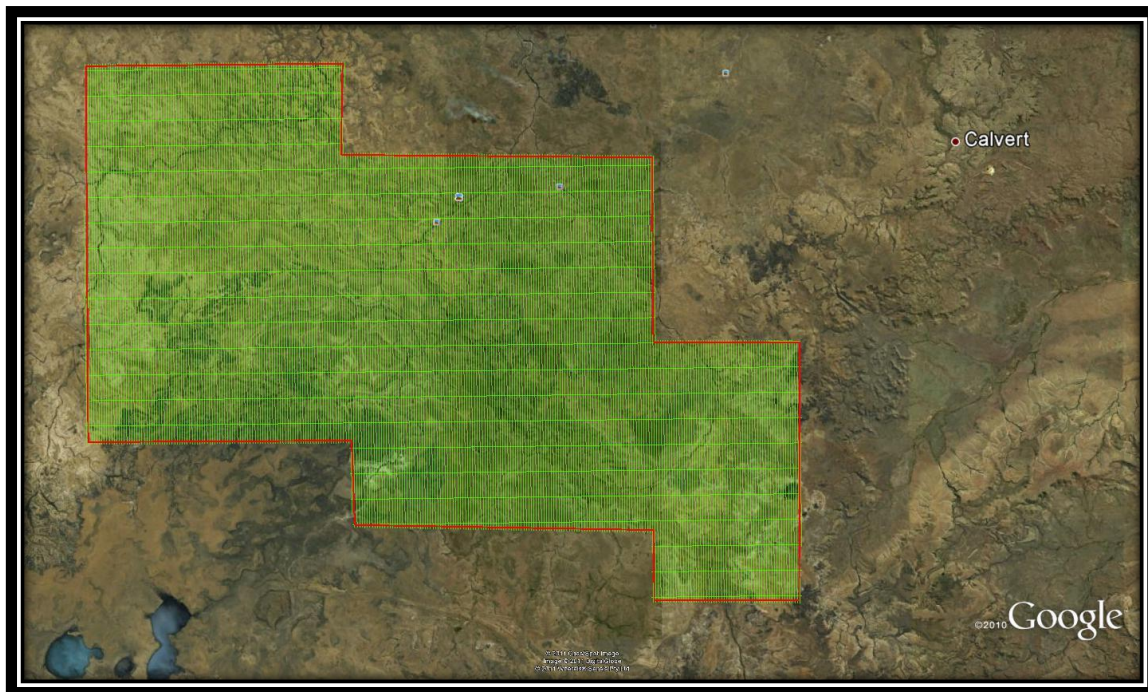
Thomson Aviation carried out a Fixed Wing Geophysical Survey of a total of 9,036 line km, South East of Borrolooloa. The aircraft used was a PAC750xl, and was based out of Redbank Copper Mine Camp. The survey was planned and delivered in GDA94 (Zone 53), a map of the survey areas, flight plan and specifications can be found below.



FLYING SPECIFICATIONS

Flight line direction	North South
Flight line spacing	200 m
Tie line direction	East West
Tie line spacing	2000 m
Sensor mean terrain clearance	45 metres
Time base - for magnetics	0.05 sec. (< 4m)
Time base - for radiometrics	0.5 sec
Total Traverse Kilometers	7943
Total Tie Kilometers	805
Shortest Traverse	2
Longest Traverse	35
Average Traverse length	27
Shortest Tie	11
Longest Tie	56
Average Tie Length	36
Total Line Kilometers	8750

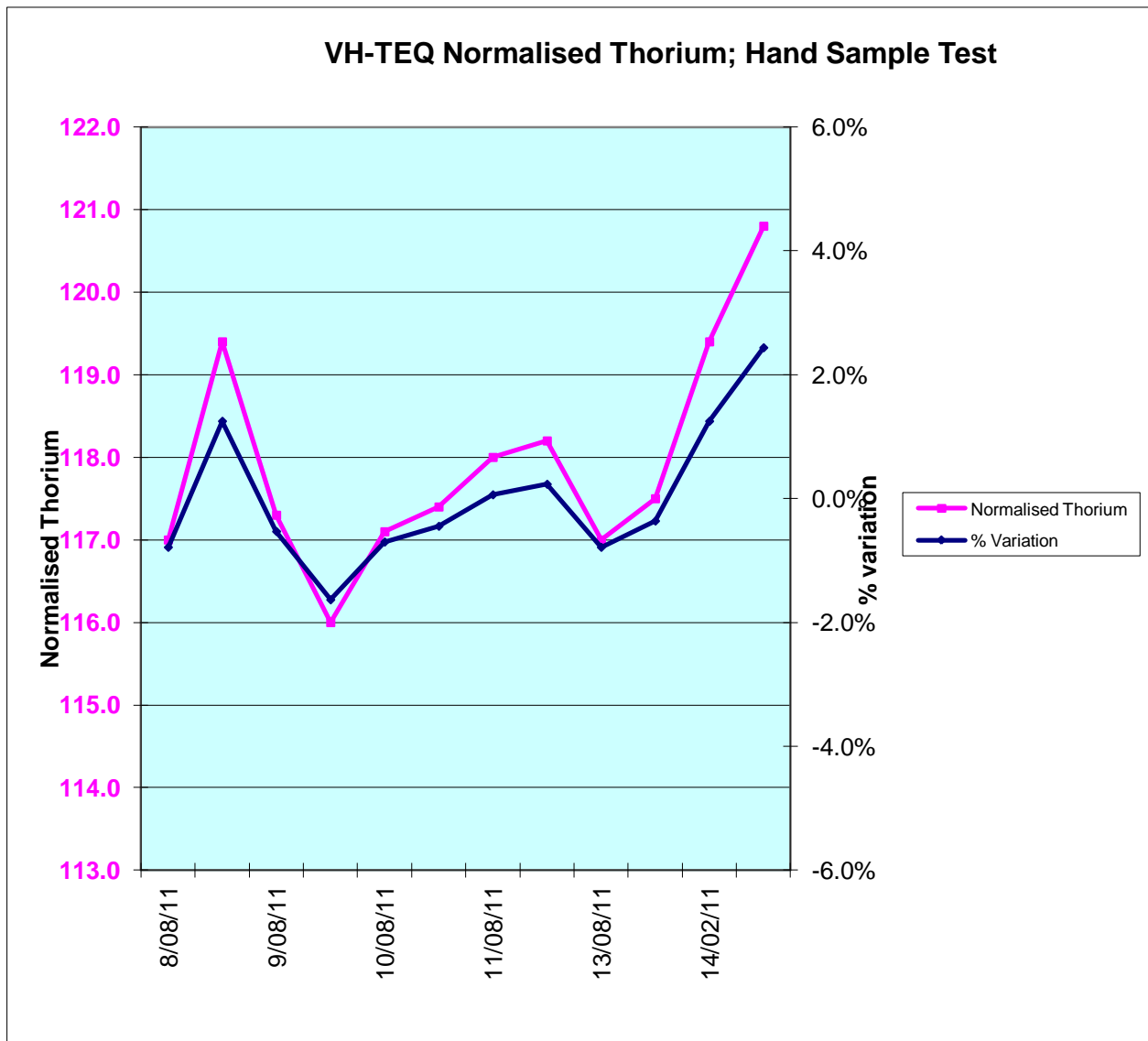
Boundary Lines Used	
GDA94 Zone 53	
720044	8105990
719917	8076356
740831	8076230
741021	8069596
764716	8068900
764652	8063403
776152	8063214
776152	8063214
776405	8083496
764842	8083686
764905	8098218
740263	8098724
740263	8098724
740452	8105927
720044	8105990



CALIBRATION

The radiometric system was calibrated using Geoscience Australia's calibration range in Carnamah, WA, within 12 months of the commencement of this survey. The following calibrations were carried out before and after each days flying:

- a) Verification of the gamma ray spectrometer system response using hand sample checks. System was exposed to a Thorium sample for a minimum period required to accumulate 10,000 counts in the Thorium window. All background corrected counts fell within a 10% envelope ($\pm 5\%$ from the mean over the survey period).



A Test Line was flown at the same height as the survey specified height to verify magnetometer, spectrometer and barometric altimeter baselines. The test line was flown over a repeatable line of five kilometers and was flown in either direction. The test line Thorium window counts fell within a 10% envelope (+/- 5% of the mean over the survey period).

Prior to the commencement of the survey, a parallax check was flown to verify the correct parallax values for all of the recorded parameters.



HEADING CHECKS.

A series of lines were flown to check the magnetic heading of the aircraft at the end of the survey
Two lines were flown North- South and two lines flown East- West

To review this data, intersections were calculated at of each of the cross over points, the lines did not cross over the same point, which is nearly impossible, and Diurnal was not collected on the day and was not removed. As the lines were only several minutes long and not separated by a large time difference then we can assume that the diurnal was near constant during the time period. The IGRF was removed with the appropriate filed and using the gps height as the height control

Lines 10010 was flown East, line 2020 flown North, line 20030 flown South and line 10040 flown West

From the analysis we computed the following results:

Line	Valid number	Heading crossings correction
10010	2	1.28
10040	2	-0.69
20020	2	1.75
20030	2	-0.73

RADAR ALTIMETER/BAROMETRIC ALTIMETER CHECK

VH- TEQ

Radar Altimeter (metres)	Barometric Height (hPa)	GPS Height (metres)	$H_{\text{gps}} - H_{\text{radalt}}$ (metres)
97.59	1375	97.2	-0.39
141.26	1364	141.23	-0.03
191.42	1357	187.3	-4.12
235.17	1352	236.5	1.33
281.37	1346	280.44	-0.93
330.69	1344	336.55	5.86
380.5	1337	375.2	-5.3
441.16	1333	441.6	0.44
486.41	1326	487.36	0.95
505.84	1322	506.35	0.51

IN-FIELD VERIFICATION AND PROCESSING

Stringent real time data validity checks were employed. Thomson Aviation conducted a daily post-flight verification of all acquired data. The following products were generated on site by a mixture of ChrisDBF and Thomson Aviation proprietary software:

- 1) Flight path plots, to demonstrate quality of navigation
- 2) Magnetic stacked profiles, to demonstrate character of magnetic data
- 3) Statistical summary of line data
- 4) Magnetometer base station plots
- 5) Progressive image presentation of magnetic and topographic data
- 6) Plots of daily parking site of the aircraft to verify GPS position.

NAVIGATION AND POSITIONING

Navigation was by electronic means using a mobile Novatel OEMV-1 VBS receiver to provide flight guidance to the pilot as well as recording the flight path for subsequent processing. Differential GPS data was obtained in real time using static GPS data obtained from the "Omnistar" wide area GPS service. Position relative to the survey line was displayed to the pilot by a system proprietary to Thomson Aviation which has proven highly effective.

Under normal circumstances differential GPS is expected to yield positional accuracies in the order of 5 metres RMS or better.



DIURNAL MONITOR

The base station magnetometer was positioned at Redbank copper mine. It recorded to a sensitivity of 0.1 nT every 5 seconds. Noise levels on the base station magnetometer did not exceed +/- 1.0 nT and the non-linear variations of the diurnal field did not exceed 10 nT in 5 minutes.



DAILY REPORTS OF AIRCRAFT VH-TEQ

See Appendix A

AIRCRAFT AND SURVEY INSTRUMENTATION

AIRCRAFT VH-TEQ



Our PAC750-XL, VH-TEQ was used as the survey platform. This aircraft combines good maneuverability with the benefits of a magnetically clean base for minimal interference with the magnetic performance of the sensor. The PAC750 is designed specifically to be flown at very low altitudes due to its agricultural background.

Details:

Engine	PT6-34 Turbine
Fuel Type	Jet A1
Fuel Burn	180 lt per hour
Cruise Speed	155 Knots
Survey Speed	145 Knots
Stall Speed	60 Knots
Total Time Airframe	500 Hours

SURVEY INSTRUMENTATION

MAGNETOMETER AND COMPENSATOR

The Geometrics G822A Magnetometer is a highly sensitive unit incorporating an optically pumped sensor. The constant harmonic frequency from the sensor is proportional to the surrounding scalar magnetic field. This frequency is resolved by the Counter / Processor which provided the magnetic field to a nominal accuracy of 0.01nT at 20 times per second both in analog and digital forms.

The sensor and pre-amp are stinger mounted, attached to the rear of the aircraft.



A Pico Envirotec MMS-4 processor was used to correct, in real time, for the magnetic interference caused by the aircraft itself and the effects of it maneuvering in the earth's magnetic field. The signal from the magnetometer is preserved without aliasing or phase distortion. The raw uncompensated data was also recorded.

RADAR ALTIMETER

A King KR 495B Radar Altimeter was used, this unit is a high resolution, short pulse ratio altitude system designed for automatic continuous operation over a wide variation of terrain, target reflectivity, weather and aircraft altitude. The radar altimeter indicator provided a terrain clearance display from 0 – 650 metres (0 – 2,000 feet) above ground.

BAROMETRIC ALTIMETER

Barometric pressure was recorded using a Vaisala pressure transducer with a range of 600 to 1600 Hpa and a resolution of 0.04 Hpa (equivalent to 0.4 metres). The sensor was calibrated to the height given by the GPS.

DATA ACQUISITION SYSTEM

The GeOZ_DAS digital data acquisition system recorded all system parameters to removable Flash Cards and provided both pilot guidance and error reporting diagnostics for the pilot or operator. Data was transferred to a field computer for both verification and archiving prior to being shipped to the processing centre.

NAVIGATION EQUIPMENT

The GPS receiver was a Novatel OEMV-1VBS 12 channel parallel tracking receiver capable of providing sub-metre resolution at five times per second. The GPS receiver was integrated within the GeOZ-DAS acquisition unit.

BASE STATION MAGNETOMETER

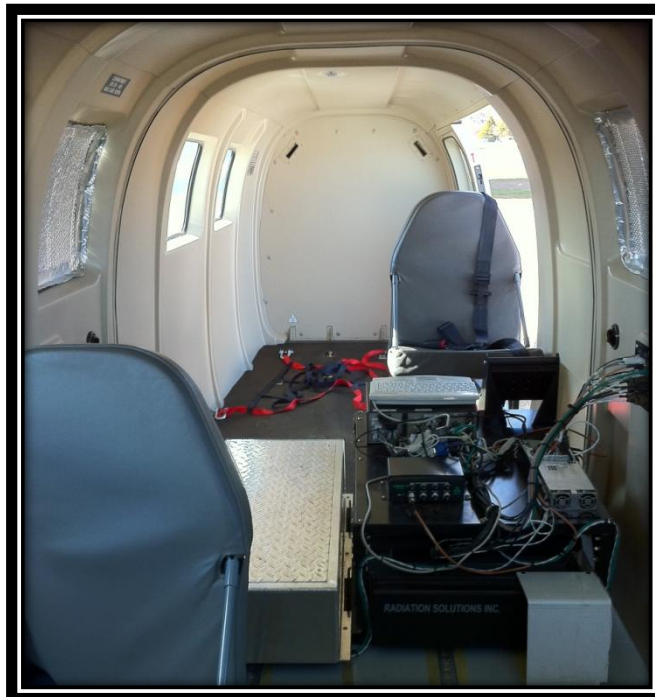
Two Geometrics G-856 magnetometers with analog and digital recording were used as diurnal monitors and run continuously during the survey periods.

GAMMA RAY SPECTROMETER SYSTEM

Two Radiations Solutions Inc. RSX-4 Gamma detector systems delivered high-resolution spectral information from 0.33 MeV to 3.0 MeV. In addition, the five primary regions of interest; Total Count, Potassium, Uranium, Thorium and Cosmic were provided. The Gamma Ray Spectrometer was interfaced to a NaI (TI) crystal detector pack with a total volume of 33 litres (2048 cubic inches). The detector packs embody the latest techniques whereby the elimination of dead time in the counting process yields up to 30% more counts over competing systems.

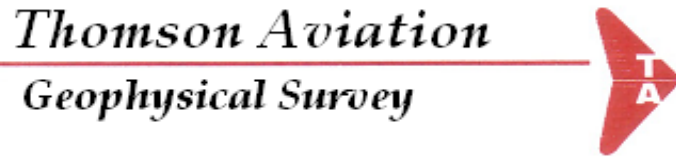
Superior calibration facilities included the visual real time monitoring of full spectrum data and in flight monitoring of gain drift relative to the selected isotope window, to ensure that long-term data quality was maintained.

Enhancement of the spectrometer data was achieved by noise reduction techniques (NASVD or MNF), followed by dead time correction, energy calibration, cosmic/aircraft background correction and atmospheric radon removal all applied to the 256 channel data. Spectral stripping, height correction and conversion to radio-element concentrations were then applied prior to gridding and microlevelling.



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Appendix A

DAILY REPORTS OF AIRCRAFT VH-TEQ

Date	Block	Aircraft	Flight	Operator	Comments
5/08/11	Redbank_Calvert	TEQ	FF1	John Zampieri	Good Weather
6/08/11	Redbank_Calvert	TEQ	FF2	John Zampieri	Good Weather
7/08/11	Redbank_Calvert	TEQ	1	John Zampieri	Full day standby
8/08/11	Redbank_Calvert	TEQ	2	John Zampieri	Good Weather
8/08/11	Redbank_Calvert	TEQ	3	John Zampieri	Good Weather
9/08/11	Redbank_Calvert	TEQ	4	John Zampieri	Good Weather
9/08/11	Redbank_Calvert	TEQ	5	John Zampieri	Good Weather
10/08/11	Redbank_Calvert	TEQ	6	John Zampieri	Good Weather
10/08/11	Redbank_Calvert	TEQ	7	John Zampieri	Good Weather
11/08/11	Redbank_Calvert	TEQ	8	John Zampieri	Good Weather
11/08/11	Redbank_Calvert	TEQ	9	John Zampieri	Good Weather
12/08/11	Redbank_Calvert	TEQ	FF3	John Zampieri	Full Day Maint.
13/08/11	Redbank_Calvert	TEQ	10	John Zampieri	Good Weather
13/08/11	Redbank_Calvert	TEQ	11	John Zampieri	Good Weather
14/08/11	Redbank_Calvert	TEQ	12	John Zampieri	Good Weather
14/08/11	Redbank_Calvert	TEQ	13	John Zampieri	Good Weather
14/08/11	Redbank_Calvert	TEQ	14	John Zampieri	Good Weather

Appendix B

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=====
Area name           = Calvert
Client name        = Redbank
=====
Area Numeric Prefix = 1
Utm Zone           = 53
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Flight Planning Parameters

```
-----
Traverse spacing (m) = 200.000000
Traverse bearing (deg) = 0.000000

Tie spacing (m)      = 1830.000000
Tie bearing (deg)    = 90.000000

Minimum line handling = Extend lines to minimum line length.
Minimum line length (m) = 2000.000000
Minimum dead segment (m) = 3000.000000
Overfly (m)          = 200.000000
Manual traverse positioning? = Not Used.
Manual tie positioning = Not Used.
Add cal lines to .Ins file? = Not Added.
```

Boundary vertices (14)

```
=====
719917.00, 8105990.00
719917.00, 8076356.00
740831.00, 8076230.00
740831.00, 8068900.00
764716.00, 8068900.00
764652.00, 8063214.00
776405.00, 8063214.00
776405.00, 8083686.00
764842.00, 8083686.00
764905.00, 8098724.00
740452.00, 8098724.00
740452.00, 8105990.00
720044.00, 8105990.00
720044.00, 8105990.00
=====
```

```
=====
Lines   Easting start Northing start Easting end Northing end Length
100010  776604.50 8063214.50 776604.50 8083686.50 20.47
100020  776404.50 8063014.50 776404.50 8083886.50 20.87
100030  776204.50 8063014.50 776204.50 8083886.50 20.87
100040  776004.50 8063014.50 776004.50 8083886.50 20.87
100050  775804.50 8063014.50 775804.50 8083886.50 20.87
100060  775604.50 8063014.50 775604.50 8083886.50 20.87
100070  775404.50 8063014.50 775404.50 8083886.50 20.87
100080  775204.50 8063014.50 775204.50 8083886.50 20.87
100090  775004.50 8063014.50 775004.50 8083886.50 20.87
100100  774804.50 8063014.50 774804.50 8083886.50 20.87
100110  774604.50 8063014.50 774604.50 8083886.50 20.87
=====
```

100120	774404.50	8063014.50	774404.50	8083886.50	20.87
100130	774204.50	8063014.50	774204.50	8083886.50	20.87
100140	774004.50	8063014.50	774004.50	8083886.50	20.87
100150	773804.50	8063014.50	773804.50	8083886.50	20.87
100160	773604.50	8063014.50	773604.50	8083886.50	20.87
100170	773404.50	8063014.50	773404.50	8083886.50	20.87
100180	773204.50	8063014.50	773204.50	8083886.50	20.87
100190	773004.50	8063014.50	773004.50	8083886.50	20.87
100200	772804.50	8063014.50	772804.50	8083886.50	20.87
100210	772604.50	8063014.50	772604.50	8083886.50	20.87
100220	772404.50	8063014.50	772404.50	8083886.50	20.87
100230	772204.50	8063014.50	772204.50	8083886.50	20.87
100240	772004.50	8063014.50	772004.50	8083886.50	20.87
100250	771804.50	8063014.50	771804.50	8083886.50	20.87
100260	771604.50	8063014.50	771604.50	8083886.50	20.87
100270	771404.50	8063014.50	771404.50	8083886.50	20.87
100280	771204.50	8063014.50	771204.50	8083886.50	20.87
100290	771004.50	8063014.50	771004.50	8083886.50	20.87
100300	770804.50	8063014.50	770804.50	8083886.50	20.87
100310	770604.50	8063014.50	770604.50	8083886.50	20.87
100320	770404.50	8063014.50	770404.50	8083886.50	20.87
100330	770204.50	8063014.50	770204.50	8083886.50	20.87
100340	770004.50	8063014.50	770004.50	8083886.50	20.87
100350	769804.50	8063014.50	769804.50	8083886.50	20.87
100360	769604.50	8063014.50	769604.50	8083886.50	20.87
100370	769404.50	8063014.50	769404.50	8083886.50	20.87
100380	769204.50	8063014.50	769204.50	8083886.50	20.87
100390	769004.50	8063014.50	769004.50	8083886.50	20.87
100400	768804.50	8063014.50	768804.50	8083886.50	20.87
100410	768604.50	8063014.50	768604.50	8083886.50	20.87
100420	768404.50	8063014.50	768404.50	8083886.50	20.87
100430	768204.50	8063014.50	768204.50	8083886.50	20.87
100440	768004.50	8063014.50	768004.50	8083886.50	20.87
100450	767804.50	8063014.50	767804.50	8083886.50	20.87
100460	767604.50	8063014.50	767604.50	8083886.50	20.87
100470	767404.50	8063014.50	767404.50	8083886.50	20.87
100480	767204.50	8063014.50	767204.50	8083886.50	20.87
100490	767004.50	8063014.50	767004.50	8083886.50	20.87
100500	766804.50	8063014.50	766804.50	8083886.50	20.87
100510	766604.50	8063014.50	766604.50	8083886.50	20.87
100520	766404.50	8063014.50	766404.50	8083886.50	20.87
100530	766204.50	8063014.50	766204.50	8083886.50	20.87
100540	766004.50	8063014.50	766004.50	8083886.50	20.87
100550	765804.50	8063014.50	765804.50	8083886.50	20.87
100560	765604.50	8063014.50	765604.50	8083886.50	20.87
100570	765404.50	8063014.50	765404.50	8083886.50	20.87
100580	765204.50	8063014.50	765204.50	8083886.50	20.87
100590	765004.50	8063014.50	765004.50	8098886.30	35.87
100600	764804.50	8063014.50	764804.50	8098924.50	35.91
100610	764604.50	8063024.29	764604.50	8098924.50	35.90
100620	764404.50	8068700.50	764404.50	8098924.50	30.22
100630	764204.50	8068700.50	764204.50	8098924.50	30.22
100640	764004.50	8068700.50	764004.50	8098924.50	30.22
100650	763804.50	8068700.50	763804.50	8098924.50	30.22
100660	763604.50	8068700.50	763604.50	8098924.50	30.22

100670	763404.50	8068700.50	763404.50	8098924.50	30.22
100680	763204.50	8068700.50	763204.50	8098924.50	30.22
100690	763004.50	8068700.50	763004.50	8098924.50	30.22
100700	762804.50	8068700.50	762804.50	8098924.50	30.22
100710	762604.50	8068700.50	762604.50	8098924.50	30.22
100720	762404.50	8068700.50	762404.50	8098924.50	30.22
100730	762204.50	8068700.50	762204.50	8098924.50	30.22
100740	762004.50	8068700.50	762004.50	8098924.50	30.22
100750	761804.50	8068700.50	761804.50	8098924.50	30.22
100760	761604.50	8068700.50	761604.50	8098924.50	30.22
100770	761404.50	8068700.50	761404.50	8098924.50	30.22
100780	761204.50	8068700.50	761204.50	8098924.50	30.22
100790	761004.50	8068700.50	761004.50	8098924.50	30.22
100800	760804.50	8068700.50	760804.50	8098924.50	30.22
100810	760604.50	8068700.50	760604.50	8098924.50	30.22
100820	760404.50	8068700.50	760404.50	8098924.50	30.22
100830	760204.50	8068700.50	760204.50	8098924.50	30.22
100840	760004.50	8068700.50	760004.50	8098924.50	30.22
100850	759804.50	8068700.50	759804.50	8098924.50	30.22
100860	759604.50	8068700.50	759604.50	8098924.50	30.22
100870	759404.50	8068700.50	759404.50	8098924.50	30.22
100880	759204.50	8068700.50	759204.50	8098924.50	30.22
100890	759004.50	8068700.50	759004.50	8098924.50	30.22
100900	758804.50	8068700.50	758804.50	8098924.50	30.22
100910	758604.50	8068700.50	758604.50	8098924.50	30.22
100920	758404.50	8068700.50	758404.50	8098924.50	30.22
100930	758204.50	8068700.50	758204.50	8098924.50	30.22
100940	758004.50	8068700.50	758004.50	8098924.50	30.22
100950	757804.50	8068700.50	757804.50	8098924.50	30.22
100960	757604.50	8068700.50	757604.50	8098924.50	30.22
100970	757404.50	8068700.50	757404.50	8098924.50	30.22
100980	757204.50	8068700.50	757204.50	8098924.50	30.22
100990	757004.50	8068700.50	757004.50	8098924.50	30.22
101000	756804.50	8068700.50	756804.50	8098924.50	30.22
101010	756604.50	8068700.50	756604.50	8098924.50	30.22
101020	756404.50	8068700.50	756404.50	8098924.50	30.22
101030	756204.50	8068700.50	756204.50	8098924.50	30.22
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101070	755404.50	8068700.50	755404.50	8098924.50	30.22
101080	755204.50	8068700.50	755204.50	8098924.50	30.22
101090	755004.50	8068700.50	755004.50	8098924.50	30.22
101100	754804.50	8068700.50	754804.50	8098924.50	30.22
101110	754604.50	8068700.50	754604.50	8098924.50	30.22
101120	754404.50	8068700.50	754404.50	8098924.50	30.22
101130	754204.50	8068700.50	754204.50	8098924.50	30.22
101140	754004.50	8068700.50	754004.50	8098924.50	30.22
101150	753804.50	8068700.50	753804.50	8098924.50	30.22
101160	753604.50	8068700.50	753604.50	8098924.50	30.22
101170	753404.50	8068700.50	753404.50	8098924.50	30.22
101180	753204.50	8068700.50	753204.50	8098924.50	30.22
101190	753004.50	8068700.50	753004.50	8098924.50	30.22
101200	752804.50	8068700.50	752804.50	8098924.50	30.22
101210	752604.50	8068700.50	752604.50	8098924.50	30.22

101220	752404.50	8068700.50	752404.50	8098924.50	30.22
101230	752204.50	8068700.50	752204.50	8098924.50	30.22
101240	752004.50	8068700.50	752004.50	8098924.50	30.22
101250	751804.50	8068700.50	751804.50	8098924.50	30.22
101260	751604.50	8068700.50	751604.50	8098924.50	30.22
101270	751404.50	8068700.50	751404.50	8098924.50	30.22
101280	751204.50	8068700.50	751204.50	8098924.50	30.22
101290	751004.50	8068700.50	751004.50	8098924.50	30.22
101300	750804.50	8068700.50	750804.50	8098924.50	30.22
101310	750604.50	8068700.50	750604.50	8098924.50	30.22
101320	750404.50	8068700.50	750404.50	8098924.50	30.22
101330	750204.50	8068700.50	750204.50	8098924.50	30.22
101340	750004.50	8068700.50	750004.50	8098924.50	30.22
101350	749804.50	8068700.50	749804.50	8098924.50	30.22
101360	749604.50	8068700.50	749604.50	8098924.50	30.22
101370	749404.50	8068700.50	749404.50	8098924.50	30.22
101380	749204.50	8068700.50	749204.50	8098924.50	30.22
101390	749004.50	8068700.50	749004.50	8098924.50	30.22
101400	748804.50	8068700.50	748804.50	8098924.50	30.22
101410	748604.50	8068700.50	748604.50	8098924.50	30.22
101420	748404.50	8068700.50	748404.50	8098924.50	30.22
101430	748204.50	8068700.50	748204.50	8098924.50	30.22
101440	748004.50	8068700.50	748004.50	8098924.50	30.22
101450	747804.50	8068700.50	747804.50	8098924.50	30.22
101460	747604.50	8068700.50	747604.50	8098924.50	30.22
101470	747404.50	8068700.50	747404.50	8098924.50	30.22
101480	747204.50	8068700.50	747204.50	8098924.50	30.22
101490	747004.50	8068700.50	747004.50	8098924.50	30.22
101500	746804.50	8068700.50	746804.50	8098924.50	30.22
101510	746604.50	8068700.50	746604.50	8098924.50	30.22
101520	746404.50	8068700.50	746404.50	8098924.50	30.22
101530	746204.50	8068700.50	746204.50	8098924.50	30.22
101540	746004.50	8068700.50	746004.50	8098924.50	30.22
101550	745804.50	8068700.50	745804.50	8098924.50	30.22
101560	745604.50	8068700.50	745604.50	8098924.50	30.22
101570	745404.50	8068700.50	745404.50	8098924.50	30.22
101580	745204.50	8068700.50	745204.50	8098924.50	30.22
101590	745004.50	8068700.50	745004.50	8098924.50	30.22
101600	744804.50	8068700.50	744804.50	8098924.50	30.22
101610	744604.50	8068700.50	744604.50	8098924.50	30.22
101620	744404.50	8068700.50	744404.50	8098924.50	30.22
101630	744204.50	8068700.50	744204.50	8098924.50	30.22
101640	744004.50	8068700.50	744004.50	8098924.50	30.22
101650	743804.50	8068700.50	743804.50	8098924.50	30.22
101660	743604.50	8068700.50	743604.50	8098924.50	30.22
101670	743404.50	8068700.50	743404.50	8098924.50	30.22
101680	743204.50	8068700.50	743204.50	8098924.50	30.22
101690	743004.50	8068700.50	743004.50	8098924.50	30.22
101700	742804.50	8068700.50	742804.50	8098924.50	30.22
101710	742604.50	8068700.50	742604.50	8098924.50	30.22
101720	742404.50	8068700.50	742404.50	8098924.50	30.22
101730	742204.50	8068700.50	742204.50	8098924.50	30.22
101740	742004.50	8068700.50	742004.50	8098924.50	30.22
101750	741804.50	8068700.50	741804.50	8098924.50	30.22
101760	741604.50	8068700.50	741604.50	8098924.50	30.22

101770	741404.50	8068700.50	741404.50	8098924.50	30.22
101780	741204.50	8068700.50	741204.50	8098924.50	30.22
101790	741004.50	8068700.50	741004.50	8098924.50	30.22
101800	740804.50	8068710.29	740804.50	8098924.50	30.21
101810	740604.50	8076031.86	740604.50	8106108.06	30.08
101820	740404.50	8076033.07	740404.50	8106190.50	30.16
101830	740204.50	8076034.27	740204.50	8106190.50	30.16
101840	740004.50	8076035.48	740004.50	8106190.50	30.16
101850	739804.50	8076036.68	739804.50	8106190.50	30.15
101860	739604.50	8076037.89	739604.50	8106190.50	30.15
101870	739404.50	8076039.09	739404.50	8106190.50	30.15
101880	739204.50	8076040.30	739204.50	8106190.50	30.15
101890	739004.50	8076041.50	739004.50	8106190.50	30.15
101900	738804.50	8076042.71	738804.50	8106190.50	30.15
101910	738604.50	8076043.91	738604.50	8106190.50	30.15
101920	738404.50	8076045.12	738404.50	8106190.50	30.15
101930	738204.50	8076046.32	738204.50	8106190.50	30.14
101940	738004.50	8076047.53	738004.50	8106190.50	30.14
101950	737804.50	8076048.73	737804.50	8106190.50	30.14
101960	737604.50	8076049.94	737604.50	8106190.50	30.14
101970	737404.50	8076051.14	737404.50	8106190.50	30.14
101980	737204.50	8076052.35	737204.50	8106190.50	30.14
101990	737004.50	8076053.55	737004.50	8106190.50	30.14
102000	736804.50	8076054.76	736804.50	8106190.50	30.14
102010	736604.50	8076055.96	736604.50	8106190.50	30.13
102020	736404.50	8076057.17	736404.50	8106190.50	30.13
102030	736204.50	8076058.37	736204.50	8106190.50	30.13
102040	736004.50	8076059.58	736004.50	8106190.50	30.13
102050	735804.50	8076060.78	735804.50	8106190.50	30.13
102060	735604.50	8076061.98	735604.50	8106190.50	30.13
102070	735404.50	8076063.19	735404.50	8106190.50	30.13
102080	735204.50	8076064.39	735204.50	8106190.50	30.13
102090	735004.50	8076065.60	735004.50	8106190.50	30.12
102100	734804.50	8076066.80	734804.50	8106190.50	30.12
102110	734604.50	8076068.01	734604.50	8106190.50	30.12
102120	734404.50	8076069.21	734404.50	8106190.50	30.12
102130	734204.50	8076070.42	734204.50	8106190.50	30.12
102140	734004.50	8076071.62	734004.50	8106190.50	30.12
102150	733804.50	8076072.83	733804.50	8106190.50	30.12
102160	733604.50	8076074.03	733604.50	8106190.50	30.12
102170	733404.50	8076075.24	733404.50	8106190.50	30.12
102180	733204.50	8076076.44	733204.50	8106190.50	30.11
102190	733004.50	8076077.65	733004.50	8106190.50	30.11
102200	732804.50	8076078.85	732804.50	8106190.50	30.11
102210	732604.50	8076080.06	732604.50	8106190.50	30.11
102220	732404.50	8076081.26	732404.50	8106190.50	30.11
102230	732204.50	8076082.47	732204.50	8106190.50	30.11
102240	732004.50	8076083.67	732004.50	8106190.50	30.11
102250	731804.50	8076084.88	731804.50	8106190.50	30.11
102260	731604.50	8076086.08	731604.50	8106190.50	30.10
102270	731404.50	8076087.29	731404.50	8106190.50	30.10
102280	731204.50	8076088.49	731204.50	8106190.50	30.10
102290	731004.50	8076089.70	731004.50	8106190.50	30.10
102300	730804.50	8076090.90	730804.50	8106190.50	30.10
102310	730604.50	8076092.11	730604.50	8106190.50	30.10

102320	730404.50	8076093.31	730404.50	8106190.50	30.10
102330	730204.50	8076094.52	730204.50	8106190.50	30.10
102340	730004.50	8076095.72	730004.50	8106190.50	30.09
102350	729804.50	8076096.93	729804.50	8106190.50	30.09
102360	729604.50	8076098.13	729604.50	8106190.50	30.09
102370	729404.50	8076099.34	729404.50	8106190.50	30.09
102380	729204.50	8076100.54	729204.50	8106190.50	30.09
102390	729004.50	8076101.75	729004.50	8106190.50	30.09
102400	728804.50	8076102.95	728804.50	8106190.50	30.09
102410	728604.50	8076104.16	728604.50	8106190.50	30.09
102420	728404.50	8076105.36	728404.50	8106190.50	30.09
102430	728204.50	8076106.57	728204.50	8106190.50	30.08
102440	728004.50	8076107.77	728004.50	8106190.50	30.08
102450	727804.50	8076108.98	727804.50	8106190.50	30.08
102460	727604.50	8076110.18	727604.50	8106190.50	30.08
102470	727404.50	8076111.39	727404.50	8106190.50	30.08
102480	727204.50	8076112.59	727204.50	8106190.50	30.08
102490	727004.50	8076113.80	727004.50	8106190.50	30.08
102500	726804.50	8076115.00	726804.50	8106190.50	30.08
102510	726604.50	8076116.21	726604.50	8106190.50	30.07
102520	726404.50	8076117.41	726404.50	8106190.50	30.07
102530	726204.50	8076118.62	726204.50	8106190.50	30.07
102540	726004.50	8076119.82	726004.50	8106190.50	30.07
102550	725804.50	8076121.03	725804.50	8106190.50	30.07
102560	725604.50	8076122.23	725604.50	8106190.50	30.07
102570	725404.50	8076123.44	725404.50	8106190.50	30.07
102580	725204.50	8076124.64	725204.50	8106190.50	30.07
102590	725004.50	8076125.85	725004.50	8106190.50	30.06
102600	724804.50	8076127.05	724804.50	8106190.50	30.06
102610	724604.50	8076128.26	724604.50	8106190.50	30.06
102620	724404.50	8076129.46	724404.50	8106190.50	30.06
102630	724204.50	8076130.67	724204.50	8106190.50	30.06
102640	724004.50	8076131.87	724004.50	8106190.50	30.06
102650	723804.50	8076133.08	723804.50	8106190.50	30.06
102660	723604.50	8076134.28	723604.50	8106190.50	30.06
102670	723404.50	8076135.49	723404.50	8106190.50	30.06
102680	723204.50	8076136.69	723204.50	8106190.50	30.05
102690	723004.50	8076137.90	723004.50	8106190.50	30.05
102700	722804.50	8076139.10	722804.50	8106190.50	30.05
102710	722604.50	8076140.31	722604.50	8106190.50	30.05
102720	722404.50	8076141.51	722404.50	8106190.50	30.05
102730	722204.50	8076142.72	722204.50	8106190.50	30.05
102740	722004.50	8076143.92	722004.50	8106190.50	30.05
102750	721804.50	8076145.13	721804.50	8106190.50	30.05
102760	721604.50	8076146.33	721604.50	8106190.50	30.04
102770	721404.50	8076147.54	721404.50	8106190.50	30.04
102780	721204.50	8076148.74	721204.50	8106190.50	30.04
102790	721004.50	8076149.95	721004.50	8106190.50	30.04
102800	720804.50	8076151.15	720804.50	8106190.50	30.04
102810	720604.50	8076152.36	720604.50	8106190.50	30.04
102820	720404.50	8076153.56	720404.50	8106190.50	30.04
102830	720204.50	8076154.76	720204.50	8106190.50	30.04
102840	720004.50	8076155.97	720004.50	8106190.50	30.03
102850	719804.50	8076194.66	719804.50	8106152.30	29.96
190010	764466.10	8063614.50	776605.50	8063614.50	12.14

190020	764486.69	8065444.50	776605.50	8065444.50	12.12
190030	764507.29	8067274.50	776605.50	8067274.50	12.10
190040	740641.29	8069104.50	776605.50	8069104.50	35.96
190050	740641.29	8070934.50	776605.50	8070934.50	35.96
190060	740641.29	8072764.50	776605.50	8072764.50	35.96
190070	740641.29	8074594.50	776605.50	8074594.50	35.96
190080	719727.29	8076424.50	776605.50	8076424.50	56.88
190090	719727.29	8078254.50	776605.50	8078254.50	56.88
190100	719727.29	8080084.50	776605.50	8080084.50	56.88
190110	719727.29	8081914.50	776605.50	8081914.50	56.88
190120	719727.29	8083744.50	776595.71	8083744.50	56.87
190130	719727.29	8085574.50	765050.41	8085574.50	45.32
190140	719727.29	8087404.50	765058.08	8087404.50	45.33
190150	719727.29	8089234.50	765065.74	8089234.50	45.34
190160	719727.29	8091064.50	765073.41	8091064.50	45.35
190170	719727.29	8092894.50	765081.08	8092894.50	45.35
190180	719727.29	8094724.50	765088.74	8094724.50	45.36
190190	719727.29	8096554.50	765096.41	8096554.50	45.37
190200	719727.29	8098384.50	765104.08	8098384.50	45.38
190210	719727.29	8100214.50	740652.50	8100214.50	20.93
190220	719727.29	8102044.50	740652.50	8102044.50	20.93
190230	719727.29	8103874.50	740652.50	8103874.50	20.93
190240	719727.29	8105704.50	740652.50	8105704.50	20.93

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===== LINE SUMMARY =====

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Lines	Cumulative Length	Cumulative Trav Length	Cumulative Tie Length	Cumulative Length
100010 ,	20.47,	20.47,	0.00,	20.47
100020 ,	20.87,	41.34,	0.00,	41.34
100030 ,	20.87,	62.22,	0.00,	62.22
100040 ,	20.87,	83.09,	0.00,	83.09
100050 ,	20.87,	103.96,	0.00,	103.96
100060 ,	20.87,	124.83,	0.00,	124.83
100070 ,	20.87,	145.70,	0.00,	145.70
100080 ,	20.87,	166.58,	0.00,	166.58
100090 ,	20.87,	187.45,	0.00,	187.45
100100 ,	20.87,	208.32,	0.00,	208.32
100110 ,	20.87,	229.19,	0.00,	229.19
100120 ,	20.87,	250.06,	0.00,	250.06
100130 ,	20.87,	270.94,	0.00,	270.94
100140 ,	20.87,	291.81,	0.00,	291.81
100150 ,	20.87,	312.68,	0.00,	312.68
100160 ,	20.87,	333.55,	0.00,	333.55
100170 ,	20.87,	354.42,	0.00,	354.42
100180 ,	20.87,	375.30,	0.00,	375.30
100190 ,	20.87,	396.17,	0.00,	396.17
100200 ,	20.87,	417.04,	0.00,	417.04
100210 ,	20.87,	437.91,	0.00,	437.91
100220 ,	20.87,	458.78,	0.00,	458.78
100230 ,	20.87,	479.66,	0.00,	479.66
100240 ,	20.87,	500.53,	0.00,	500.53
100250 ,	20.87,	521.40,	0.00,	521.40
100260 ,	20.87,	542.27,	0.00,	542.27
100270 ,	20.87,	563.14,	0.00,	563.14

100280	, 20.87,	584.02,	0.00,	584.02
100290	, 20.87,	604.89,	0.00,	604.89
100300	, 20.87,	625.76,	0.00,	625.76
100310	, 20.87,	646.63,	0.00,	646.63
100320	, 20.87,	667.50,	0.00,	667.50
100330	, 20.87,	688.38,	0.00,	688.38
100340	, 20.87,	709.25,	0.00,	709.25
100350	, 20.87,	730.12,	0.00,	730.12
100360	, 20.87,	750.99,	0.00,	750.99
100370	, 20.87,	771.86,	0.00,	771.86
100380	, 20.87,	792.74,	0.00,	792.74
100390	, 20.87,	813.61,	0.00,	813.61
100400	, 20.87,	834.48,	0.00,	834.48
100410	, 20.87,	855.35,	0.00,	855.35
100420	, 20.87,	876.22,	0.00,	876.22
100430	, 20.87,	897.10,	0.00,	897.10
100440	, 20.87,	917.97,	0.00,	917.97
100450	, 20.87,	938.84,	0.00,	938.84
100460	, 20.87,	959.71,	0.00,	959.71
100470	, 20.87,	980.58,	0.00,	980.58
100480	, 20.87,	1001.46,	0.00,	1001.46
100490	, 20.87,	1022.33,	0.00,	1022.33
100500	, 20.87,	1043.20,	0.00,	1043.20
100510	, 20.87,	1064.07,	0.00,	1064.07
100520	, 20.87,	1084.94,	0.00,	1084.94
100530	, 20.87,	1105.82,	0.00,	1105.82
100540	, 20.87,	1126.69,	0.00,	1126.69
100550	, 20.87,	1147.56,	0.00,	1147.56
100560	, 20.87,	1168.43,	0.00,	1168.43
100570	, 20.87,	1189.30,	0.00,	1189.30
100580	, 20.87,	1210.18,	0.00,	1210.18
100590	, 35.87,	1246.05,	0.00,	1246.05
100600	, 35.91,	1281.96,	0.00,	1281.96
100610	, 35.90,	1317.86,	0.00,	1317.86
100620	, 30.22,	1348.08,	0.00,	1348.08
100630	, 30.22,	1378.31,	0.00,	1378.31
100640	, 30.22,	1408.53,	0.00,	1408.53
100650	, 30.22,	1438.75,	0.00,	1438.75
100660	, 30.22,	1468.98,	0.00,	1468.98
100670	, 30.22,	1499.20,	0.00,	1499.20
100680	, 30.22,	1529.43,	0.00,	1529.43
100690	, 30.22,	1559.65,	0.00,	1559.65
100700	, 30.22,	1589.87,	0.00,	1589.87
100710	, 30.22,	1620.10,	0.00,	1620.10
100720	, 30.22,	1650.32,	0.00,	1650.32
100730	, 30.22,	1680.55,	0.00,	1680.55
100740	, 30.22,	1710.77,	0.00,	1710.77
100750	, 30.22,	1740.99,	0.00,	1740.99
100760	, 30.22,	1771.22,	0.00,	1771.22
100770	, 30.22,	1801.44,	0.00,	1801.44
100780	, 30.22,	1831.67,	0.00,	1831.67
100790	, 30.22,	1861.89,	0.00,	1861.89
100800	, 30.22,	1892.11,	0.00,	1892.11
100810	, 30.22,	1922.34,	0.00,	1922.34
100820	, 30.22,	1952.56,	0.00,	1952.56

100830	,	30.22,	1982.79,	0.00,	1982.79
100840	,	30.22,	2013.01,	0.00,	2013.01
100850	,	30.22,	2043.23,	0.00,	2043.23
100860	,	30.22,	2073.46,	0.00,	2073.46
100870	,	30.22,	2103.68,	0.00,	2103.68
100880	,	30.22,	2133.91,	0.00,	2133.91
100890	,	30.22,	2164.13,	0.00,	2164.13
100900	,	30.22,	2194.35,	0.00,	2194.35
100910	,	30.22,	2224.58,	0.00,	2224.58
100920	,	30.22,	2254.80,	0.00,	2254.80
100930	,	30.22,	2285.03,	0.00,	2285.03
100940	,	30.22,	2315.25,	0.00,	2315.25
100950	,	30.22,	2345.47,	0.00,	2345.47
100960	,	30.22,	2375.70,	0.00,	2375.70
100970	,	30.22,	2405.92,	0.00,	2405.92
100980	,	30.22,	2436.15,	0.00,	2436.15
100990	,	30.22,	2466.37,	0.00,	2466.37
101000	,	30.22,	2496.59,	0.00,	2496.59
101010	,	30.22,	2526.82,	0.00,	2526.82
101020	,	30.22,	2557.04,	0.00,	2557.04
101030	,	30.22,	2587.27,	0.00,	2587.27
101040	,	30.22,	2617.49,	0.00,	2617.49
101050	,	30.22,	2647.71,	0.00,	2647.71
101060	,	30.22,	2677.94,	0.00,	2677.94
101070	,	30.22,	2708.16,	0.00,	2708.16
101080	,	30.22,	2738.39,	0.00,	2738.39
101090	,	30.22,	2768.61,	0.00,	2768.61
101100	,	30.22,	2798.83,	0.00,	2798.83
101110	,	30.22,	2829.06,	0.00,	2829.06
101120	,	30.22,	2859.28,	0.00,	2859.28
101130	,	30.22,	2889.51,	0.00,	2889.51
101140	,	30.22,	2919.73,	0.00,	2919.73
101150	,	30.22,	2949.95,	0.00,	2949.95
101160	,	30.22,	2980.18,	0.00,	2980.18
101170	,	30.22,	3010.40,	0.00,	3010.40
101180	,	30.22,	3040.63,	0.00,	3040.63
101190	,	30.22,	3070.85,	0.00,	3070.85
101200	,	30.22,	3101.07,	0.00,	3101.07
101210	,	30.22,	3131.30,	0.00,	3131.30
101220	,	30.22,	3161.52,	0.00,	3161.52
101230	,	30.22,	3191.75,	0.00,	3191.75
101240	,	30.22,	3221.97,	0.00,	3221.97
101250	,	30.22,	3252.19,	0.00,	3252.19
101260	,	30.22,	3282.42,	0.00,	3282.42
101270	,	30.22,	3312.64,	0.00,	3312.64
101280	,	30.22,	3342.87,	0.00,	3342.87
101290	,	30.22,	3373.09,	0.00,	3373.09
101300	,	30.22,	3403.31,	0.00,	3403.31
101310	,	30.22,	3433.54,	0.00,	3433.54
101320	,	30.22,	3463.76,	0.00,	3463.76
101330	,	30.22,	3493.99,	0.00,	3493.99
101340	,	30.22,	3524.21,	0.00,	3524.21
101350	,	30.22,	3554.43,	0.00,	3554.43
101360	,	30.22,	3584.66,	0.00,	3584.66
101370	,	30.22,	3614.88,	0.00,	3614.88

101380	, 30.22,	3645.11,	0.00,	3645.11
101390	, 30.22,	3675.33,	0.00,	3675.33
101400	, 30.22,	3705.55,	0.00,	3705.55
101410	, 30.22,	3735.78,	0.00,	3735.78
101420	, 30.22,	3766.00,	0.00,	3766.00
101430	, 30.22,	3796.23,	0.00,	3796.23
101440	, 30.22,	3826.45,	0.00,	3826.45
101450	, 30.22,	3856.67,	0.00,	3856.67
101460	, 30.22,	3886.90,	0.00,	3886.90
101470	, 30.22,	3917.12,	0.00,	3917.12
101480	, 30.22,	3947.35,	0.00,	3947.35
101490	, 30.22,	3977.57,	0.00,	3977.57
101500	, 30.22,	4007.79,	0.00,	4007.79
101510	, 30.22,	4038.02,	0.00,	4038.02
101520	, 30.22,	4068.24,	0.00,	4068.24
101530	, 30.22,	4098.47,	0.00,	4098.47
101540	, 30.22,	4128.69,	0.00,	4128.69
101550	, 30.22,	4158.91,	0.00,	4158.91
101560	, 30.22,	4189.14,	0.00,	4189.14
101570	, 30.22,	4219.36,	0.00,	4219.36
101580	, 30.22,	4249.59,	0.00,	4249.59
101590	, 30.22,	4279.81,	0.00,	4279.81
101600	, 30.22,	4310.03,	0.00,	4310.03
101610	, 30.22,	4340.26,	0.00,	4340.26
101620	, 30.22,	4370.48,	0.00,	4370.48
101630	, 30.22,	4400.71,	0.00,	4400.71
101640	, 30.22,	4430.93,	0.00,	4430.93
101650	, 30.22,	4461.15,	0.00,	4461.15
101660	, 30.22,	4491.38,	0.00,	4491.38
101670	, 30.22,	4521.60,	0.00,	4521.60
101680	, 30.22,	4551.83,	0.00,	4551.83
101690	, 30.22,	4582.05,	0.00,	4582.05
101700	, 30.22,	4612.27,	0.00,	4612.27
101710	, 30.22,	4642.50,	0.00,	4642.50
101720	, 30.22,	4672.72,	0.00,	4672.72
101730	, 30.22,	4702.95,	0.00,	4702.95
101740	, 30.22,	4733.17,	0.00,	4733.17
101750	, 30.22,	4763.39,	0.00,	4763.39
101760	, 30.22,	4793.62,	0.00,	4793.62
101770	, 30.22,	4823.84,	0.00,	4823.84
101780	, 30.22,	4854.07,	0.00,	4854.07
101790	, 30.22,	4884.29,	0.00,	4884.29
101800	, 30.21,	4914.50,	0.00,	4914.50
101810	, 30.08,	4944.58,	0.00,	4944.58
101820	, 30.16,	4974.74,	0.00,	4974.74
101830	, 30.16,	5004.89,	0.00,	5004.89
101840	, 30.16,	5035.05,	0.00,	5035.05
101850	, 30.15,	5065.20,	0.00,	5065.20
101860	, 30.15,	5095.36,	0.00,	5095.36
101870	, 30.15,	5125.51,	0.00,	5125.51
101880	, 30.15,	5155.66,	0.00,	5155.66
101890	, 30.15,	5185.81,	0.00,	5185.81
101900	, 30.15,	5215.95,	0.00,	5215.95
101910	, 30.15,	5246.10,	0.00,	5246.10
101920	, 30.15,	5276.25,	0.00,	5276.25

101930	, 30.14,	5306.39,	0.00,	5306.39
101940	, 30.14,	5336.53,	0.00,	5336.53
101950	, 30.14,	5366.67,	0.00,	5366.67
101960	, 30.14,	5396.82,	0.00,	5396.82
101970	, 30.14,	5426.95,	0.00,	5426.95
101980	, 30.14,	5457.09,	0.00,	5457.09
101990	, 30.14,	5487.23,	0.00,	5487.23
102000	, 30.14,	5517.37,	0.00,	5517.37
102010	, 30.13,	5547.50,	0.00,	5547.50
102020	, 30.13,	5577.63,	0.00,	5577.63
102030	, 30.13,	5607.77,	0.00,	5607.77
102040	, 30.13,	5637.90,	0.00,	5637.90
102050	, 30.13,	5668.03,	0.00,	5668.03
102060	, 30.13,	5698.15,	0.00,	5698.15
102070	, 30.13,	5728.28,	0.00,	5728.28
102080	, 30.13,	5758.41,	0.00,	5758.41
102090	, 30.12,	5788.53,	0.00,	5788.53
102100	, 30.12,	5818.66,	0.00,	5818.66
102110	, 30.12,	5848.78,	0.00,	5848.78
102120	, 30.12,	5878.90,	0.00,	5878.90
102130	, 30.12,	5909.02,	0.00,	5909.02
102140	, 30.12,	5939.14,	0.00,	5939.14
102150	, 30.12,	5969.26,	0.00,	5969.26
102160	, 30.12,	5999.37,	0.00,	5999.37
102170	, 30.12,	6029.49,	0.00,	6029.49
102180	, 30.11,	6059.60,	0.00,	6059.60
102190	, 30.11,	6089.72,	0.00,	6089.72
102200	, 30.11,	6119.83,	0.00,	6119.83
102210	, 30.11,	6149.94,	0.00,	6149.94
102220	, 30.11,	6180.05,	0.00,	6180.05
102230	, 30.11,	6210.16,	0.00,	6210.16
102240	, 30.11,	6240.26,	0.00,	6240.26
102250	, 30.11,	6270.37,	0.00,	6270.37
102260	, 30.10,	6300.47,	0.00,	6300.47
102270	, 30.10,	6330.58,	0.00,	6330.58
102280	, 30.10,	6360.68,	0.00,	6360.68
102290	, 30.10,	6390.78,	0.00,	6390.78
102300	, 30.10,	6420.88,	0.00,	6420.88
102310	, 30.10,	6450.98,	0.00,	6450.98
102320	, 30.10,	6481.07,	0.00,	6481.07
102330	, 30.10,	6511.17,	0.00,	6511.17
102340	, 30.09,	6541.26,	0.00,	6541.26
102350	, 30.09,	6571.36,	0.00,	6571.36
102360	, 30.09,	6601.45,	0.00,	6601.45
102370	, 30.09,	6631.54,	0.00,	6631.54
102380	, 30.09,	6661.63,	0.00,	6661.63
102390	, 30.09,	6691.72,	0.00,	6691.72
102400	, 30.09,	6721.81,	0.00,	6721.81
102410	, 30.09,	6751.89,	0.00,	6751.89
102420	, 30.09,	6781.98,	0.00,	6781.98
102430	, 30.08,	6812.06,	0.00,	6812.06
102440	, 30.08,	6842.15,	0.00,	6842.15
102450	, 30.08,	6872.23,	0.00,	6872.23
102460	, 30.08,	6902.31,	0.00,	6902.31
102470	, 30.08,	6932.39,	0.00,	6932.39

102480	, 30.08,	6962.46,	0.00,	6962.46
102490	, 30.08,	6992.54,	0.00,	6992.54
102500	, 30.08,	7022.62,	0.00,	7022.62
102510	, 30.07,	7052.69,	0.00,	7052.69
102520	, 30.07,	7082.76,	0.00,	7082.76
102530	, 30.07,	7112.84,	0.00,	7112.84
102540	, 30.07,	7142.91,	0.00,	7142.91
102550	, 30.07,	7172.98,	0.00,	7172.98
102560	, 30.07,	7203.04,	0.00,	7203.04
102570	, 30.07,	7233.11,	0.00,	7233.11
102580	, 30.07,	7263.18,	0.00,	7263.18
102590	, 30.06,	7293.24,	0.00,	7293.24
102600	, 30.06,	7323.31,	0.00,	7323.31
102610	, 30.06,	7353.37,	0.00,	7353.37
102620	, 30.06,	7383.43,	0.00,	7383.43
102630	, 30.06,	7413.49,	0.00,	7413.49
102640	, 30.06,	7443.55,	0.00,	7443.55
102650	, 30.06,	7473.60,	0.00,	7473.60
102660	, 30.06,	7503.66,	0.00,	7503.66
102670	, 30.06,	7533.72,	0.00,	7533.72
102680	, 30.05,	7563.77,	0.00,	7563.77
102690	, 30.05,	7593.82,	0.00,	7593.82
102700	, 30.05,	7623.87,	0.00,	7623.87
102710	, 30.05,	7653.92,	0.00,	7653.92
102720	, 30.05,	7683.97,	0.00,	7683.97
102730	, 30.05,	7714.02,	0.00,	7714.02
102740	, 30.05,	7744.07,	0.00,	7744.07
102750	, 30.05,	7774.11,	0.00,	7774.11
102760	, 30.04,	7804.16,	0.00,	7804.16
102770	, 30.04,	7834.20,	0.00,	7834.20
102780	, 30.04,	7864.24,	0.00,	7864.24
102790	, 30.04,	7894.28,	0.00,	7894.28
102800	, 30.04,	7924.32,	0.00,	7924.32
102810	, 30.04,	7954.36,	0.00,	7954.36
102820	, 30.04,	7984.40,	0.00,	7984.40
102830	, 30.04,	8014.43,	0.00,	8014.43
102840	, 30.03,	8044.47,	0.00,	8044.47
102850	, 29.96,	8074.42,	0.00,	8074.42
190010	, 12.14,	8074.42,	12.14,	8086.56
190020	, 12.12,	8074.42,	24.26,	8098.68
190030	, 12.10,	8074.42,	36.36,	8110.78
190040	, 35.96,	8074.42,	72.32,	8146.74
190050	, 35.96,	8074.42,	108.28,	8182.71
190060	, 35.96,	8074.42,	144.25,	8218.67
190070	, 35.96,	8074.42,	180.21,	8254.64
190080	, 56.88,	8074.42,	237.09,	8311.52
190090	, 56.88,	8074.42,	293.97,	8368.39
190100	, 56.88,	8074.42,	350.85,	8425.27
190110	, 56.88,	8074.42,	407.73,	8482.15
190120	, 56.87,	8074.42,	464.59,	8539.02
190130	, 45.32,	8074.42,	509.92,	8584.34
190140	, 45.33,	8074.42,	555.25,	8629.67
190150	, 45.34,	8074.42,	600.59,	8675.01
190160	, 45.35,	8074.42,	645.93,	8720.36
190170	, 45.35,	8074.42,	691.29,	8765.71

190180	,	45.36,	8074.42,	736.65,	8811.07
190190	,	45.37,	8074.42,	782.02,	8856.44
190200	,	45.38,	8074.42,	827.39,	8901.82
190210	,	20.93,	8074.42,	848.32,	8922.74
190220	,	20.93,	8074.42,	869.24,	8943.67
190230	,	20.93,	8074.42,	890.17,	8964.59
190240	,	20.93,	8074.42,	911.10,	8985.52

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