

STAR PREDICTION TABLES FOR THE FIXING OF POSITION

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MONOGRAPH No. 4

THE SCHOOL OF SURVEYING

UNIVERSITY OF NEW SOUTH WALES
KENSINGTON, N.S.W. 2033 AUSTRALIA



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SYDNEY, AUSTRALIA

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STAR PREDICTION TABLES FOR
THE FIXING OF POSITION
(EPOCH 1980)

FOR LATITUDES BETWEEN
N60° and S60°

Section 1 : Longitude Observation Prediction (pp 1-116)
contain prediction information to enable an observer to
make timed zenith distance measurements on a pair of
stars in quick succession, one star near the east and
the other near the west Prime Vertical, for the determination
of longitude. Latitude interval 5°.

Section 2 : Position Line Observation Prediction (pp 117-177)
contain prediction information to enable an observer to
make timed zenith distance measurements on stars at
approximately 45° zenith distance near the centres of the
azimuth quadrants, for the simultaneous determination of
latitude and longitude. Latitude interval 2°.

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1974

Published by
The School of Surveying
The University of New South Wales
Sydney, Australia.
November 1974

National Library of Australia
Card Number and ISBN

0 85839 018 3

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STAR PREDICTION TABLES FOR THE FIXING OF POSITION

1. General Remarks

Many geodetic authorities throughout the world make use of the modern high speed electronic computer in the preparation of star prediction programmes, which are used by astronomical observation parties to assist them in their work. For the most part, these programmes are prepared well in advance of being taken into the field by the observing party, which knows that it is expected to be in the vicinity of a specified latitude and longitude on an approximate date. These programmes, which are taken into the field have a restricted scope, sufficient for the job in hand, but limited in time and place. If general tables or lists, which cover a wide latitude range are desired, then there are two ways of preparing this information in compact form:-

- (1) Tables of double entry are calculated, with latitude and declination as arguments, the respondent values being calculated for specific observational circumstances, such as transit, elongation, fixed altitude, etc.

Tables of this type have the advantage that the information contained in them is not ephemeral, but on the other hand, the process of double interpolation, to find the respondent values for a particular star, is somewhat tedious. In certain circumstances, i.e. in the vicinity of local maxima and minima, linear interpolation may lead to large errors unless the argument intervals are kept small, which may ultimately necessitate the preparation of tables whose sheer bulk outweighs their usefulness.

- (2) Lists of altitude, azimuth and local sidereal time for stars which conform to a particular observational circumstance are calculated for fixed values of latitude. Only single interpolation of the respondent values will be necessary, although the problems of local maxima and minima will still be present but confined to one respondent value. However, on the debit side, the right ascension and declination of stars in the data set will change slowly over the years until eventually these coordinate changes induce changes in the values of the respondents which are unacceptable for the purpose of locating the stars with certainty, although these values may still be quite acceptable for a first stage process of selecting available stars. This latter aspect i.e. selecting stars to fulfil particular conditions in order to minimise systematic and random errors is probably the most time consuming part of any prediction process.

2. Description of the Tables

The second of the methods described has been adopted for these tables, which have been prepared using the IBM 360 Computer from mean places of stars for the epoch 1980. The difference between the predicted values of the zenith distance and azimuth from the tables and accurate values calculated at an epoch 10 years remote from that from which the tables have been constructed does not exceed 0.4 degree and on the average will be smaller than this value. A discrepancy of this magnitude should be quite acceptable when

attempting to locate stars in the field of view of most small theodolites. In addition, tables (unpublished) from mean places of stars for the epoch 2000 have been prepared.

The data set used for the preparation of these tables is based on the mean places of stars in the FK4 Catalogue for the epoch 1950. Updating to the epochs 1980 and 2000 was carried out using Newcomb's formulae. Stars fainter than magnitude 5.5 have been excluded. Although it would have been possible to include additional stars from other catalogues which are within the limits of magnitude that have been set, it was felt that because of its superior accuracy and general availability the FK4 Catalogue was particularly suitable and was therefore adopted.

The Tables have been prepared for use primarily for observations made with a theodolite, whose telescope is not set and clamped at a chosen zenith distance, but if it is desired to make observations at a fixed zenith distance, then with a little extra manipulation the appropriate values can be found. Values of calculated local sidereal times (LST), zenith distances (ZD) and azimuths (AZ) are given to 1 minute of time and 0.1 degree. The tables have been devised so that any loss of accuracy through interpolation is confined entirely to zenith distances and azimuths because the quoted values of LST are exact and not rounded off. The tables, covering the latitude range $S60^{\circ}$ to $N60^{\circ}$, are in two sections.

Section 1: Longitude Observation Prediction (pp.1-116) contain prediction information to enable an observer to make timed zenith distance measurements on a pair of stars in quick succession, one star near the east and the other near the west Prime Vertical, for the determination

of longitude. If the observer makes an equal number of measurements on each star at a constant rate, quickly changing over from one star to the other at the central tabulated LST, then the average zenith distance for each star will be very nearly equal, thus satisfying the requirements for the minimisation of the effects of systematic errors, which may be present in the calculated refraction or in the assumed value of the latitude.

The ranges for which this section of the tables have been constructed is as follows:-

For azimuth:- 10° on either side of the Prime Vertical
i.e. Amplitude of 10° .

For zenith distance:- 40° - 60°

For declination difference:- 3°

The selection process produced a number of star pairs varying from 220 to 330 over the 24 hour period for the 5° latitude interval and inevitably a large number of these pairs were very close together in time. For each latitude range the set was then culled to give a selection such that, except where stars might be mis-identified, no star pair was closer in time to the neighbouring pairs than 10 minutes. This culling could obviously be done in a number of ways and in making the final selection the following principles were adopted:-

- (1) the total number of pairs of stars should be a maximum having regard to the 10 minute interval.
- (2) preference was given to star pairs with magnitudes in the range 1 to 5, the brightness of the fainter star of the pair being the main criterion.

(3) if there was a possibility of mis-identification owing to there being two or more pairs with different stars at about the same azimuths and zenith distances and the same LST, then all the possible pairs were included.

Section 2: Position Line Observation Predictions (pp.117-177), contain prediction information to enable an observer to make timed zenith distance measurements on stars at approximately 45° zenith distance near the centres of the azimuth quadrants, for the simultaneous determination of latitude and longitude. If the observer makes an equal number of measurements on each of four stars, one in each quadrant, at a constant rate, starting and finishing at times which are at equal intervals before and after the tabulated LST, then the average zenith distance for each star will be very nearly equal. If the four stars are chosen such that the total observing time is short then, as with the longitude observations, the effects of systematic errors which may be present in the calculated refraction will be minimised.

It was originally intended to prepare lists of stars which could be observed at approximately 45° zenith distance within 5° of the centres of the azimuth quadrants. However it was found that the number of available stars decreased

rapidly in the southern quadrants in high north latitudes and in the northern quadrants in high south latitudes.

To remedy this situation the azimuth range of these quadrants was extended to $7\frac{1}{2}^{\circ}$ on either side of the quadrant centres for latitudes above 30° . In addition it was found that it was necessary to keep the latitude interval small, i.e. 2° in order to maintain a reasonable number of stars which were common to both latitudes.

To facilitate the calculation of azimuths and zenith distances at instants shortly before or after those which are tabulated, two quantities designated A and B have been tabulated for each star. The values of azimuth and zenith distance 10 minutes earlier than those tabulated may be found by adding the A factor to the azimuth and the B factor to the zenith distance.

3. Examples to illustrate the use of the tables:

- (a) Select 2 pairs of stars suitable for the determination of longitude for the following circumstances:-

Station: Irkutsk (ϕ N $52^{\circ}17'$, λ E $6^{\text{h}}57^{\text{m}}23^{\text{s}}$).

Date : 10th June, 1974.

Start of Programme: About 23^{h} Standard Time (Time Zone E 7^{h})

Instrument : Theodolite, telescope unclamped.

Observation: 10 minutes on each star.

Standard Time	23 ^h
Time Zone	E <u>7</u>
U.T.	16
GST at UTO ^h	17 11 ^m 52 ^s
Conversion Mean to Sidereal Time	<u>2 38</u>
GST	9 14 30
λ	E <u>6 57 23</u>
LST of the start of the programme	<u>16 11 53</u>

See page 110 of the tables.

$$\text{Interpolation factor } \frac{(52^{\circ}17') - 50^{\circ}}{5^{\circ}} = 0.46$$

Pair	Cat.No. Mag.	WEST		LST	EAST		Cat.No. Mag.
		ZD	AZ		AZ	ZD	
1	461	40.5 ^o	274.2 ^o	16 ^h 11 ^m	80.3	43.5	765
	5.2	42.1	276.0	16 21	82.0	42.1	2.3
		43.6	277.8	16 31	83.8	40.5	
2	1332	48.9	263.0	16 41	92.1	52.1	786
	5.1	50.4	265.1	16 51	94.1	50.6	5.2
		51.9	267.2	17 01	96.2	49.1	

- (b) Select 4 stars, one in each of the azimuth quadrants suitable for the simultaneous determination of latitude and longitude for the following circumstances:

Station: Rio de Janeiro (ϕ S22^o54' , λ W2^h52^m45^s)

Date: 15th April, 1974.

Start of programme: About 21^h Standard Time (Time Zone W3^h)

Instrument: Theodolite, telescope unclamped.

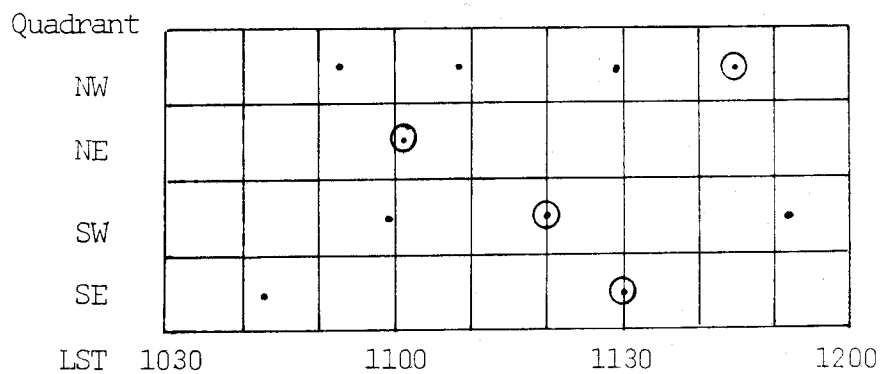
Observation: 10 minutes on each star.

Standard Time	21 ^h
Time Zone	W 3
U.T. (16th April 1974)	0
GST	13 35 ^m 02 ^s
λ	2 52 45
LST of the start of the programme	10 42 17

See page 136 of the tables.

$$\text{Interpolation factor} = \frac{(22^{\circ}54') - 22^{\circ}}{2^{\circ}} = 0.45$$

To assist in the preparation of a programme which will have the shortest duration it will be found convenient to plot the stars on a small diagram as follows:-



The values of azimuth and zenith distance for any short time interval before or after the tabulated value of LST are found by using the A and B "factors" which are quoted for each star. The values of azimuth and zenith distance 10 minutes earlier than those tabulated or interpolated are found by adding the A factor to the azimuth and the B factor to the zenith distance.

In the following example $\frac{A}{2}$ and $\frac{B}{2}$ have been used since the desired observation interval was 5 minutes before and after the tabulated LST.

Quadrant	Cat.No. Mag.	AZ	ZD	LST
NE	488	45 ^o .4	45 ^o .7	10 ^h 56 ^m
	3.0	44.1	44.9	11 01
		42.8	44.1	11 06
SW	309	224.9	44.3	11 15
	1.9	225.2	45.1	11 20
		225.5	45.9	11 25
SE	541	134.6	45.9	11 25
	2.9	134.9	45.1	11 30
		135.2	44.3	11 35
NW	365	315.0	44.1	11 40
	3.8	313.7	44.9	11 45
		312.4	45.8	11 50

(c) Select 2 pairs of stars suitable for the determination of longitude for the following circumstances:-

Station: Ottawa (ϕ N45^o24' , λ W5^h02^m52^s)

Date: 22nd July, 1974.

Start of Programme: About 22^h Standard Time (Time Zone W5^h).

Instrument: Theodolite, telescope clamped at a specific zenith distance for each pair of stars.

Standard Time	22 ^h
Time Zone	W 5
U.T. (23rd July 1974)	3
GST at UTO ^h	20 01 ^h 24 ^s
Conversion Mean to Sidereal Time	29
GST	23 01 53
λ	W 5 02 52
LST of the start of programme	17 59 01

See Page 105 of the tables.

$$\text{Interpolation factor} = \frac{(45^{\circ}24') - 45^{\circ}}{5^{\circ}} = 0.08$$

The calculation is done in two stages

- (i) Interpolate the zenith distance and azimuth at the required latitude for the first and second tabulated LST's for the west star. Repeat this for the east star for the second and third tabulated LST's.
- (ii) Select a whole minute instant before the second tabulated LST for the west star and interpolate the zenith distance and azimuth. With this value of zenith distance interpolate the azimuth and LST for the east star.

NOTE: The whole minute instant is selected such that there is a conveniently comfortable interval between the observations on each star.

Pair	Cat.No. Mag.	WEST		LST	LST	EAST		Cat.No. Mag.
		ZD	AZ			AZ	ZD	
1	534	43.9 ^o	269.3 ^o	18 ^h 05 ^m	18 ^h 05 ^m			835
	3.8	45.6	271.0	18 15	18 15	84.3	45.9	4.4
				18 25	18 25	85.9	44.2	
		45.4	270.8	18 14	18 17.9	84.8	45.4	
2	1380	45.8	270.2	18 17	18 17			1590
	4.5	47.6	271.9	18 27	18 27	83.7	47.7	5.5
				18 37	18 37	85.3	45.9	
		47.4	271.7	18 26	18 28.7	84.0	47.4	

(d) Select 4 stars, one in each of the azimuth quadrants suitable for the simultaneous determination of latitude and longitude from equal altitude observations for the following circumstances:-

Station: Sydney (ϕ S33^o55' , λ E10^h04^m56^s)

Date: 20th May, 1974.

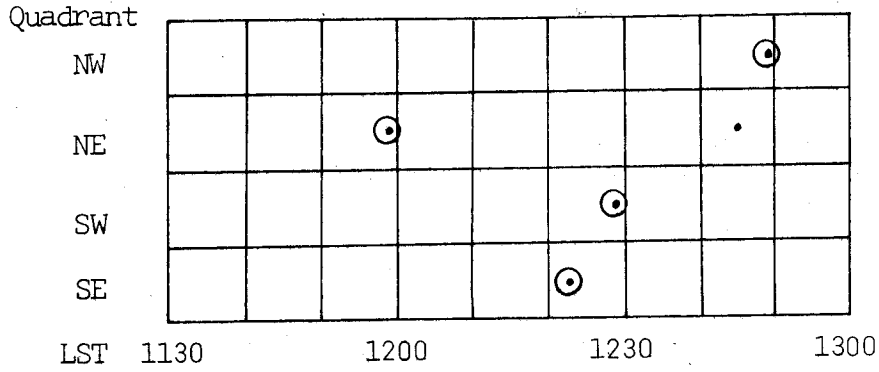
Start of Programme: About 20^h Standard Time (Time Zone E10^h)

Instrument: Theodolite, telescope clamped at a specific zenith distance for all the stars.

Standard Time	20 ^h
Zone	E 10
UT	10
GST at UTO ^h	15 49 ^m 05 ^s
Conversion Mean to Sidereal Time	1 38
GST	1 50 43
λ	E 10 04 56
LST of the start of the programme	11 55 39

See page 131 of the tables.

$$\text{Interpolation factor} = \frac{(33^{\circ}55') - 32^{\circ}}{2^{\circ}} = 0.96$$



The calculation is done in two stages:

- (1) Interpolate the azimuth (AZ_I) and the zenith distance (ZD_I) for the required latitude for the tabulated LST (LST_T).
- (2) The LST (LST_{45}) and the azimuth (AZ_{45}) when the star is at 45° zenith distance is then,

$$LST_{45} = LST_T + \frac{10}{B} (ZD_I - 45) = LST_T + \Delta T$$

$$\& AZ_{45} = AZ_I - \frac{\Delta T \cdot A}{10}$$

where A and B are the tabulated A and B factors for the star and ΔT is in minutes of time.

NOTE: Allowance must be made for ΔT when selecting the stars from the diagram otherwise it may be found that there is insufficient time to observe on stars whose times are brought close together after ΔT has been applied to the tabulated LST's.

Quadrant	Cat.No. Mag.	AZ	ZD	LST
NE	516	45 ^o .1	45 ^o .6	11 ^h 59 ^m
	4.3	44.0	45.0	12 03.0
SE	600	135.8	44.4	12 23
	5.1	135.7	45.0	12 18.7
SW	1227	226.6	44.4	12 29
	3.7	226.6	45	12 33.0
NW	1284	320.0	45.6	12 49
	5.1	321.3	45	12 44.7

LONGITUDE OBSERVATION PREDICTION

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-60	LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	LAT-60	LAT-55		
751	4.4	45.9	45.9	273.9	269.1	0	4	88.1	92.5	48.6	48.6	4.1	1121
		47.1	47.2	271.7	267.1	0	14	85.9	90.5	47.4	47.2		
		49.4	48.6	269.5	265.1	0	24	83.6	88.4	46.1	45.8		
751	4.4	49.0	49.3	268.5	264.1	0	29	94.8	98.8	51.5	52.1	4.9	197
		50.3	50.8	266.3	262.2	0	39	92.7	96.9	50.2	50.7		
		51.5	52.2	264.3	260.4	0	49	90.6	94.9	49.0	49.2		
751	4.4	50.6	51.2	265.7	261.7	0	42	96.1	99.8	53.3	54.0	2.8	215
		51.0	52.6	263.6	259.8	0	52	94.0	97.9	52.0	52.6		
		53.1	54.0	261.6	258.0	1	2	91.9	96.0	50.8	51.1		
779	4.3	56.8	56.4	276.3	273.0	1	13	82.5	85.4	59.6	59.0	3.8	217
		58.1	57.9	274.0	270.9	1	23	80.2	83.3	58.3	57.6		
		59.3	59.3	271.9	268.9	1	33	77.9	81.1	57.1	56.2		
791	4.6	55.7	55.7	279.0	275.5	1	23	80.2	83.3	58.3	57.6	3.8	217
		56.9	56.5	276.7	273.4	1	33	77.9	81.1	57.1	56.2		
		59.2	57.9	274.4	271.3	1	43	75.5	78.9	55.9	54.8		
1550	4.7	52.1	52.3	269.6	265.8	1	36	90.3	93.9	54.9	55.1	3.1	240
		53.3	53.7	267.5	263.8	1	46	88.2	91.9	53.6	53.6		
		54.6	55.1	265.4	261.9	1	56	86.0	89.8	52.4	52.2		
822	3.2	42.7	42.5	274.8	269.4	1	46	86.2	91.1	45.4	45.2	3.2	223
		43.9	43.9	272.6	267.4	1	56	83.9	89.1	44.1	43.8		
		45.2	45.4	270.4	265.4	2	6	81.6	87.0	42.9	42.4		
822	3.2	44.6	44.6	271.5	266.4	2	1	88.0	92.6	47.2	47.2	4.5	238
		45.8	46.1	269.3	264.5	2	11	85.7	90.6	45.9	45.8		
		47.1	47.5	267.2	262.6	2	21	83.5	88.5	44.7	44.4		
832	4.6	49.6	49.4	274.1	269.7	2	29	89.0	93.0	51.1	51.2	3.8	1150
		49.8	49.9	271.9	267.7	2	39	86.9	91.0	49.8	49.7		
		51.1	51.3	269.7	265.7	2	49	84.5	89.0	48.6	48.3		
845	5.5	42.6	42.8	270.9	265.4	2	31	90.5	95.5	45.1	45.4	5.3	1178
		43.8	44.2	268.7	263.5	2	41	88.4	93.6	43.9	44.0		
		45.1	45.6	266.6	261.7	2	51	86.1	91.6	42.6	42.5		
1599	5.4	41.1	41.1	273.4	267.6	2	42	88.1	93.4	43.8	43.8	5.3	1178
		42.4	42.5	271.1	265.7	2	52	85.9	91.4	42.5	42.4		
		43.6	44.0	269.0	263.8	3	2	83.6	89.3	41.3	41.0		
867	1.3	49.4	49.7	280.3	276.0	2	54	93.6	94.5	52.1	51.4	3.7	1183
		50.6	50.1	277.0	273.8	3	4	91.3	92.4	50.8	50.4		
		51.9	51.6	275.6	271.7	3	14	89.9	90.1	49.6	48.6		
854	4.2	55.7	55.5	274.3	270.9	3	11	85.5	88.6	58.4	58.2	3.5	1214
		57.0	57.3	272.1	268.9	3	21	83.2	86.5	57.2	56.8		
		58.2	59.4	269.9	266.8	3	31	81.0	84.3	56.0	55.3		
854	4.2	57.1	57.1	271.0	268.7	3	22	86.7	89.6	59.8	59.7	2.9	304
		58.4	58.5	269.7	266.6	3	32	84.5	87.6	58.6	58.2		
		59.6	60.0	267.6	264.7	3	42	82.2	85.5	57.2	56.8		
879	4.5	49.4	49.2	273.7	269.4	3	34	86.0	89.9	52.1	51.9	4.9	1214
		50.6	51.7	271.5	267.4	3	44	83.7	87.8	50.9	50.5		
		51.9	52.1	269.3	265.4	3	54	81.4	85.7	49.6	49.1		
867	1.3	56.2	56.6	268.0	264.7	3	49	92.4	95.4	59.0	59.3	4.2	332
		57.5	58.0	265.8	262.7	3	59	90.2	93.4	57.7	57.9		
		58.7	59.4	263.8	260.8	4	9	88.1	91.4	56.5	56.5		
896	4.6	53.8	53.5	275.4	271.8	4	11	87.6	91.0	56.2	56.2	4.2	332
		55.1	54.9	273.2	269.7	4	21	85.4	88.9	55.0	54.8		
		56.3	56.4	271.0	267.7	4	31	83.1	86.8	53.8	53.3		
6	5.2	46.8	46.8	272.5	267.8	4	23	87.4	91.7	49.4	49.4	3.7	327
		48.0	48.2	270.3	265.8	4	33	85.2	89.7	48.2	48.0		
		49.3	49.6	268.2	263.9	4	43	82.9	87.6	46.9	46.5		
12	2.4	41.1	41.7	266.2	260.5	4	36	95.2	100.3	43.6	44.3	4.4	1234
		42.3	43.1	264.1	258.8	4	46	93.1	98.5	42.3	42.9		
		43.6	44.5	262.1	257.0	4	56	91.0	96.7	41.1	41.4		
1031	5.2	38.8	38.8	272.1	265.9	4	54	91.4	97.1	41.3	41.7	4.4	1234
		40.0	40.3	269.9	264.0	5	4	89.3	95.2	40.1	40.3		
		41.3	41.7	267.8	262.1	5	14	87.1	93.3	38.9	38.9		
35	4.4	52.2	51.9	275.6	271.7	5	16	85.1	88.7	54.8	54.5	5.0	366
		53.5	53.3	273.4	269.7	5	26	82.9	86.6	53.6	53.1		
		54.7	54.8	271.2	267.7	5	36	80.6	84.4	52.3	51.7		
1026	5.5	52.4	52.6	270.4	266.6	5	36	92.4	95.9	55.0	55.3	4.4	392
		53.7	54.0	268.3	264.6	5	46	90.3	93.9	53.7	53.9		
		54.9	55.4	266.2	262.7	5	56	88.1	92.0	52.5	52.5		
1053	5.0	39.8	40.3	267.9	262.0	5	55	95.1	100.5	42.4	43.1	4.1	382
		41.1	41.7	265.8	260.2	6	5	93.0	98.7	41.2	41.7		
		42.3	43.1	263.8	258.4	6	15	90.9	96.9	39.9	40.3		

CATNO	MAG	WEST STAR				AZ		LST		EAST STAR				MAG	CATNO
		Z. D.								Z. D.					
		LAT-60	LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	LAT-60	LAT-55	LAT-60	LAT-55		
1055	4.7	53.3	53.1	273.9	270.1	6	30	86.4	89.7	56.1	55.9	5.1	419		
		54.5	54.5	271.7	268.1	6	40	84.1	87.7	54.8	54.5				
		55.8	56.0	269.5	266.1	6	50	81.8	85.5	53.6	53.0				
83	5.4	56.8	56.2	279.4	276.1	6	40	82.6	85.6	59.4	58.8	4.5	421		
		58.1	57.6	277.1	274.0	6	50	80.3	83.5	58.1	57.4				
		59.3	59.0	274.9	271.9	7	0	78.0	81.3	56.9	56.0				
101	4.5	49.2	49.0	274.4	270.1	7	2	88.6	92.6	51.8	51.9	3.7	434		
		50.4	50.4	272.2	268.0	7	12	86.4	90.6	50.6	50.4				
		51.7	51.8	270.0	266.1	7	22	84.2	88.5	49.3	49.0				
133	4.9	46.1	45.7	281.3	276.5	7	27	83.0	87.4	48.7	48.3	3.7	434		
		47.3	46.7	279.0	274.3	7	37	80.7	85.3	47.5	46.8				
		48.5	48.2	276.6	272.2	7	47	78.3	83.1	46.2	45.4				
143	4.2	43.2	42.9	276.6	271.3	7	39	84.3	89.2	45.8	45.5	4.9	439		
		44.5	44.3	274.3	269.2	7	49	82.0	87.1	44.5	44.0				
		45.7	45.8	272.1	267.2	7	59	79.6	84.9	43.3	42.6				
140	4.3	56.8	56.0	280.8	277.5	8	0	83.6	86.6	59.2	58.8	2.8	471		
		58.0	57.4	278.5	275.4	8	10	81.3	84.5	58.0	57.3				
		59.3	58.9	276.3	273.3	8	20	79.0	82.3	56.7	55.9				
143	4.2	47.9	48.2	268.4	263.9	8	16	91.1	95.1	50.5	50.8	5.0	1331		
		49.1	49.6	266.3	262.0	8	26	88.9	93.2	49.3	49.4				
		50.4	51.0	264.2	260.1	8	36	86.7	91.2	48.0	47.9				
155	3.8	41.8	42.4	265.2	259.7	8	29	94.1	99.2	44.4	45.0	4.3	482		
		43.0	43.8	263.2	258.0	8	39	92.0	97.3	43.2	43.6				
		44.3	45.2	261.2	256.3	8	49	89.9	95.4	41.9	42.2				
1120	4.5	40.3	40.6	268.7	262.9	8	41	91.6	96.9	42.9	43.3	4.3	482		
		41.5	42.1	266.6	261.1	8	51	89.5	95.1	41.7	41.9				
		42.8	43.5	264.6	259.3	9	1	87.3	93.1	40.4	40.4				
1121	4.1	50.4	50.7	268.8	264.7	8	57	93.3	97.0	53.0	53.5	4.4	506		
		51.7	52.1	266.7	262.8	9	7	91.2	95.1	51.8	52.1				
		52.9	53.5	264.6	260.9	9	17	89.0	93.1	50.5	50.6				
1130	5.1	48.1	48.6	266.1	261.6	9	16	96.3	100.3	50.6	51.3	2.3	520		
		49.3	50.0	264.0	259.8	9	26	94.2	98.4	49.4	49.9				
		50.5	51.0	262.0	258.0	9	36	92.1	96.5	48.1	48.5				
215	2.8	45.7	45.3	277.1	272.2	9	35	85.1	89.5	48.3	48.0	4.4	506		
		46.9	46.7	274.9	270.2	9	45	82.7	87.4	47.0	46.6				
		48.2	48.2	272.6	268.1	9	55	80.4	85.3	45.8	45.2				
223	3.2	44.2	43.9	276.0	270.8	9	45	87.7	87.4	47.0	46.6	4.4	506		
		45.4	45.3	273.7	268.8	9	55	85.4	85.3	45.8	45.2				
		46.7	46.9	271.5	266.8	10	5	83.0	83.1	44.6	43.8				
238	4.5	42.9	42.3	280.0	274.6	9	56	80.1	85.0	45.7	45.0	4.4	506		
		44.1	43.7	277.6	272.4	10	6	77.7	82.8	44.5	43.6				
		45.4	45.1	275.3	270.4	10	16	75.3	80.6	43.2	42.2				
223	3.2	47.1	47.2	270.9	266.2	10	8	92.2	96.4	49.7	50.1	4.1	544		
		48.3	48.6	268.7	264.3	10	18	90.0	94.5	48.4	48.6				
		49.6	50.0	266.6	262.4	10	28	87.8	92.5	47.2	47.2				
238	4.5	45.7	45.5	274.6	269.7	10	19	89.8	94.3	48.3	48.5	4.1	544		
		47.0	47.0	272.4	267.7	10	29	87.6	92.3	47.1	47.1				
		48.2	48.4	270.2	265.8	10	39	85.4	90.3	45.8	45.6				
238	4.5	47.0	47.0	272.4	267.7	10	29	89.2	93.5	49.6	49.7	5.3	1389		
		48.2	48.4	270.2	265.8	10	39	87.0	91.5	48.4	48.3				
		49.5	49.8	268.1	263.8	10	49	84.8	89.4	47.1	46.9				
252	3.2	39.6	40.1	267.0	261.0	10	40	94.9	100.3	42.3	42.9	3.4	553		
		40.8	41.5	265.0	259.3	10	50	92.8	98.5	41.0	41.5				
		42.1	42.9	262.9	257.5	11	0	90.7	96.7	39.8	40.1				
240	3.1	53.7	53.8	271.6	268.0	10	54	88.6	91.9	56.3	56.7	3.8	579		
		55.0	55.2	269.5	266.0	11	4	86.4	89.9	55.0	54.9				
		56.2	56.6	267.3	264.0	11	14	84.2	87.8	53.8	53.4				
268	1.6	51.7	51.2	277.7	273.7	11	9	85.3	88.9	54.4	54.2	3.8	579		
		53.0	52.7	275.4	271.6	11	19	83.0	86.8	53.2	52.7				
		54.2	54.1	273.1	269.5	11	29	80.7	84.6	51.9	51.3				
1178	5.3	47.2	47.9	265.9	261.4	11	19	96.0	100.1	49.8	50.5	4.3	599		
		48.5	49.2	263.9	259.5	11	29	93.9	98.3	48.6	49.1				
		49.7	50.6	261.8	257.7	11	39	91.8	96.4	47.4	47.7				
268	1.6	55.5	55.5	270.9	267.5	11	39	91.7	94.8	57.9	58.2	2.9	620		
		56.7	57.0	268.8	265.5	11	49	89.5	92.8	56.7	56.8				
		58.0	58.4	266.6	263.6	11	59	87.3	90.8	55.4	55.3				
278	2.7	48.0	48.5	266.4	261.9	11	50	93.0	97.1	59.7	51.2	4.3	1431		
		49.3	49.9	264.3	260.1	12	0	90.9	95.2	49.5	49.7				
		50.5	51.4	262.3	258.3	12	10	88.7	93.2	48.2	48.3				

CATNO	MAG	WEST STAR % D.		AZ		LST		AZ		EAST STAR % D.		MAG	CATNO
		LAT-60	LAT-55	LAT-60	LAT-55	HRS	MIN	LAT-60	LAT-55	LAT-60	LAT-55		
278	2.7	49.4	50.1	264.1	259.9	12	1	98.4	98.2	52.0	52.6	2.4	628
		50.6	51.5	262.1	258.1	12	11	92.2	96.3	50.8	51.1		
		51.9	52.9	260.1	256.3	12	21	90.1	94.4	49.5	49.7		
1210	4.9	51.1	50.8	275.8	271.7	12	12	84.4	88.1	53.8	53.5	2.9	620
		52.4	52.2	273.5	269.7	12	22	82.1	86.0	52.6	52.0		
		53.6	53.7	271.3	267.6	12	32	79.8	83.8	51.3	50.6		
306	2.3	44.0	44.5	266.9	261.7	12	22	93.4	98.0	46.6	47.1	3.1	1439
		45.2	45.9	264.8	259.9	12	32	91.3	96.1	45.4	45.7		
		46.5	47.3	262.7	258.1	12	42	89.1	94.2	44.2	44.3		
308	2.9	57.9	57.5	276.7	273.6	12	36	87.6	90.5	60.4	60.4	4.3	1457
		59.1	58.9	274.5	271.5	12	46	85.4	88.4	59.2	58.9		
		60.4	60.3	272.3	269.4	12	56	83.2	86.3	58.0	57.5		
1219	4.9	55.0	56.1	267.7	264.3	12	49	91.8	94.8	58.4	58.7	4.7	1464
		57.0	57.5	265.5	262.3	12	59	89.6	92.8	57.2	57.3		
		58.3	59.0	263.4	260.4	13	9	87.4	90.8	55.9	55.8		
1210	4.9	57.1	57.7	265.3	262.1	13	0	97.8	100.7	59.6	60.4	2.8	687
		58.4	59.1	263.2	260.2	13	10	95.8	98.8	58.3	58.9		
		59.6	60.5	261.2	258.3	13	20	93.7	96.8	57.1	57.5		
1219	4.9	53.2	53.7	266.3	262.6	13	10	93.0	96.3	55.9	56.3	3.1	679
		54.5	55.1	264.2	260.7	13	20	90.8	94.3	54.7	54.9		
		55.7	56.5	262.1	258.8	13	30	88.7	92.4	53.4	53.5		
327	3.7	51.7	52.0	268.6	264.6	13	21	90.6	94.1	54.6	54.8	3.1	679
		53.0	53.4	266.4	262.7	13	31	88.4	92.2	53.3	53.3		
		54.2	54.9	264.3	260.8	13	41	86.2	90.1	52.1	51.9		
332	4.2	57.1	57.1	270.9	267.7	13	35	89.0	91.9	59.7	59.7	2.9	692
		58.3	58.6	268.8	265.7	13	45	86.8	89.9	58.5	58.3		
		59.6	60.0	266.6	263.7	13	55	84.6	87.8	57.2	56.9		
1243	4.9	55.9	55.5	276.8	273.4	13	45	86.8	89.9	58.5	58.3	2.9	692
		57.2	56.9	274.5	271.3	13	55	84.6	87.8	57.2	56.9		
		58.4	58.4	272.3	269.2	14	5	82.3	85.7	56.0	55.4		
366	5.0	53.7	53.3	276.8	273.1	14	2	83.0	86.4	56.3	55.9	2.9	692
		55.0	54.7	274.6	271.1	14	12	80.7	84.2	55.1	54.4		
		56.2	56.2	272.4	269.0	14	22	78.4	82.1	53.9	53.0		
392	4.4	47.4	46.7	281.1	276.5	14	16	81.3	85.5	50.1	49.5	2.8	687
		48.7	49.1	278.9	274.4	14	26	78.9	83.3	48.9	48.1		
		49.9	49.5	276.5	272.2	14	36	76.5	81.1	47.6	46.7		
414	4.7	40.3	39.6	280.4	274.5	14	27	83.6	89.1	42.7	42.4	3.2	683
		41.5	41.1	278.0	272.3	14	37	81.3	87.0	41.5	41.0		
		42.8	42.5	275.7	270.3	14	47	78.9	84.8	40.3	39.5		
414	4.7	41.5	41.1	278.0	272.3	14	37	80.7	85.5	44.2	43.6	2.0	689
		42.8	42.5	275.7	271.3	14	47	78.3	83.7	42.9	42.2		
		44.0	43.9	273.4	269.2	14	57	75.8	81.4	41.7	40.7		
415	4.6	40.7	41.2	267.5	261.8	15	5	93.5	98.7	43.3	43.8	4.1	728
		41.9	42.6	265.4	260.0	15	15	91.4	96.9	42.0	42.4		
		43.2	44.0	263.4	259.2	15	25	89.2	95.0	40.8	40.9		
414	4.7	47.1	47.5	268.0	263.4	15	22	92.8	97.0	49.7	50.2	4.4	751
		48.4	48.9	265.9	261.5	15	32	90.7	95.1	48.5	48.7		
		49.6	50.3	263.8	259.6	15	42	88.5	93.1	47.2	47.3		
419	5.1	57.2	57.2	271.6	268.4	15	48	92.4	95.3	59.8	60.1	4.2	1546
		58.5	58.7	269.4	266.4	15	58	90.2	93.3	58.5	58.7		
		59.7	60.1	267.3	264.4	16	8	88.0	91.3	57.3	57.2		
439	4.9	48.6	48.7	270.7	266.3	16	2	91.5	95.5	51.3	51.6	5.5	1540
		49.8	50.1	268.5	264.3	16	12	89.3	93.5	50.0	50.1		
		51.1	51.6	266.4	262.4	16	22	87.1	91.5	48.8	48.7		
439	4.9	50.3	50.7	267.7	263.6	16	16	92.1	95.8	53.1	53.4	4.7	1550
		51.6	52.1	265.6	261.7	16	26	90.0	93.9	51.8	52.0		
		52.8	53.6	263.5	259.8	16	36	87.8	91.9	50.6	50.6		
1331	5.0	44.5	43.9	279.8	274.7	16	35	84.2	88.9	47.2	46.9	5.5	1540
		45.8	45.3	277.5	272.6	16	45	81.9	86.8	45.9	45.4		
		47.0	46.8	275.2	270.5	16	55	79.5	84.6	44.7	44.0		
471	2.8	57.4	56.7	279.8	276.5	16	52	83.1	86.0	59.9	59.4	3.9	806
		58.6	58.1	277.5	274.4	17	2	80.9	83.9	58.7	58.0		
		59.9	59.5	275.2	272.3	17	12	78.6	81.8	57.4	56.6		
1331	5.0	48.8	48.8	272.0	267.6	17	9	90.7	94.7	51.3	51.5	4.4	814
		50.0	50.2	269.9	265.7	17	19	88.5	92.7	50.0	50.1		
		51.3	51.6	267.7	263.7	17	29	86.3	90.7	48.8	48.7		
482	4.3	45.0	45.6	265.0	260.1	17	20	93.8	98.3	47.6	48.1	3.2	822
		46.2	47.0	262.9	258.3	17	30	91.7	96.4	46.4	46.7		
		47.4	48.4	260.9	256.5	17	40	89.5	94.5	45.1	45.3		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-60	LAT-55	LAT-60	LAT-55			LAT-60	LAT-55	LAT-60	LAT-55		
1331	5.0	51.9	52.3	266.7	262.8	17	34	94.8	98.3	54.5	55.1	4.4	1592
		53.1	53.8	264.6	260.9	17	44	92.7	96.4	53.3	53.7		
		54.4	55.2	262.5	259.0	17	54	90.5	94.4	52.0	52.2		
1373	4.2	40.5	40.0	278.1	272.2	17	57	85.7	91.1	43.0	42.8	3.2	822
		41.7	41.5	275.8	270.2	18	7	83.4	89.1	41.7	41.4		
		43.0	42.9	273.5	268.1	18	17	81.1	87.0	40.5	40.0		
506	4.4	51.8	52.0	268.9	264.9	18	22	94.8	98.3	54.3	54.9	4.5	879
		53.0	53.5	266.7	263.0	18	32	92.7	96.4	53.0	53.4		
		54.3	54.9	264.6	261.1	18	42	90.6	94.5	51.8	52.0		
544	4.1	44.3	43.9	277.3	272.2	18	34	81.6	86.3	47.0	46.5	4.4	1592
		45.6	45.4	275.0	270.1	18	44	79.2	84.1	45.8	45.1		
		46.9	46.8	272.8	268.1	18	54	76.8	81.9	44.6	43.7		
553	3.4	39.2	39.4	270.3	264.2	18	51	88.1	93.7	42.0	42.1	5.4	1599
		40.4	40.9	268.2	262.4	19	1	85.9	91.7	40.7	40.6		
		41.7	42.3	266.1	260.6	19	11	83.6	89.7	39.5	39.2		
532	5.0	54.2	54.2	272.2	268.6	19	1	89.8	93.1	56.8	56.9	4.6	896
		55.5	55.6	270.0	266.6	19	11	87.6	91.1	55.5	55.5		
		56.7	57.0	267.9	264.6	19	21	85.4	89.0	54.3	54.0		
1389	5.3	48.6	48.6	272.6	268.1	19	12	88.4	92.5	51.1	51.2	5.3	1618
		49.9	50.0	270.4	266.2	19	22	86.2	90.4	49.9	49.8		
		51.1	51.4	268.2	264.2	19	32	84.0	88.4	48.7	48.3		
1402	3.4	41.5	41.8	269.7	264.1	19	23	89.1	94.2	44.3	44.4	4.5	886
		42.7	43.2	267.5	262.2	19	33	86.9	92.3	43.0	43.0		
		44.0	44.6	265.5	260.4	19	43	84.6	90.2	41.8	41.5		
556	3.4	58.1	57.8	274.3	271.2	19	40	87.5	90.3	60.7	60.6	5.2	14
		59.3	59.3	272.1	269.2	19	50	85.3	88.3	59.4	59.2		
		60.6	60.7	270.0	267.1	20	0	83.1	86.2	58.2	57.7		
1389	5.3	53.8	54.6	263.6	260.0	19	54	96.5	99.8	56.5	57.3	5.5	1026
		55.1	56.0	261.5	258.2	20	4	94.5	97.9	55.3	55.8		
		56.3	57.4	259.5	256.3	20	14	92.3	95.9	54.1	54.4		
592	3.0	54.3	53.6	279.4	275.8	20	10	80.8	84.1	57.0	56.3	5.2	14
		55.5	55.1	277.1	273.6	20	20	78.5	81.9	55.7	54.9		
		56.8	56.5	274.8	271.6	20	30	76.1	79.7	54.5	53.5		
1430	3.1	40.3	39.9	278.0	272.0	20	28	80.7	86.1	43.1	42.5	5.2	6
		41.5	41.3	275.6	270.0	20	38	78.3	83.9	41.9	41.1		
		42.8	42.7	273.3	267.9	20	48	75.8	81.6	40.7	39.7		
586	4.1	52.7	53.3	265.9	262.1	20	39	96.0	99.4	55.3	55.9	5.3	1048
		54.0	54.7	263.8	260.2	20	49	93.9	97.5	54.0	54.5		
		55.2	56.1	261.7	258.4	20	59	91.8	95.6	52.8	53.1		
616	1.2	56.4	56.2	274.7	271.4	21	0	87.3	90.3	59.1	59.0	5.4	61
		57.7	57.6	272.5	269.4	21	10	85.1	88.2	57.8	57.5		
		58.9	59.0	270.3	267.3	21	20	82.8	86.2	56.6	56.1		
628	2.4	48.7	48.8	271.4	267.0	21	10	89.4	93.4	51.4	51.5	5.3	1048
		49.9	50.2	269.2	265.9	21	20	87.2	91.4	50.2	50.1		
		51.2	51.6	267.1	263.1	21	30	85.0	89.4	48.9	48.7		
628	2.4	52.9	53.6	264.1	260.4	21	44	96.5	99.8	55.5	56.2	4.5	101
		54.2	55.0	262.1	258.6	21	54	94.4	97.9	54.2	54.8		
		55.4	56.4	260.0	256.7	22	4	92.3	96.0	53.0	53.3		
666	3.1	43.7	44.2	267.0	261.8	22	4	96.6	101.3	46.1	46.9	4.1	1075
		44.9	45.6	264.9	260.0	22	14	94.5	99.5	44.8	45.5		
		46.2	47.0	262.9	258.2	22	24	92.5	97.7	43.6	44.0		
692	2.9	54.8	54.1	279.8	276.3	22	39	81.4	84.6	57.5	56.9	4.2	1085
		56.0	55.5	277.5	274.2	22	49	79.1	82.4	56.3	55.5		
		57.3	57.0	275.3	272.1	22	59	76.7	80.2	55.1	54.1		
683	3.2	48.8	49.3	265.8	261.4	22	54	97.3	101.2	51.3	52.1	4.2	143
		50.0	50.7	263.7	259.6	23	4	95.3	99.4	50.0	50.7		
		51.3	52.1	261.7	257.8	23	14	93.2	97.5	48.8	49.3		
718	4.1	45.0	45.3	269.6	264.6	23	23	91.3	95.8	47.7	48.0	4.2	143
		46.3	46.7	267.5	262.7	23	33	89.1	93.9	46.4	46.5		
		47.5	48.1	265.4	260.9	23	43	86.9	91.9	45.2	45.1		

CATNO	MAG	WEST STAR				LST HRS MIN	EAST STAR				MAG	CATNO
		Z. D.		AZ			Z. D.		AZ			
		LAT-55	LAT-50	LAT-55	LAT-50		LAT-55	LAT-50	LAT-55	LAT-50		
751	4.4	45.8	46.0	269.1	264.2	0 4	92.5	96.8	48.6	49.0	4.1	1121
		47.2	47.6	267.1	262.5	0 14	90.5	95.1	47.2	47.4		
		48.6	49.2	265.1	260.8	0 24	88.4	93.3	45.8	45.8		
1540	5.5	45.5	45.5	273.0	268.1	0 34	85.5	90.0	48.5	48.3	3.9	170
		47.0	47.1	271.0	266.3	0 44	83.3	88.0	47.1	46.7		
		48.4	48.7	268.9	264.5	0 54	81.1	86.0	45.7	45.1		
779	4.3	53.4	52.9	277.5	273.8	0 52	81.5	84.8	56.5	55.9	3.3	186
		54.9	54.5	275.3	271.8	1 2	79.3	82.8	55.1	54.3		
		56.3	56.2	273.2	269.9	1 12	77.0	80.7	53.7	52.7		
779	4.3	56.1	56.0	273.4	270.0	1 11	85.8	88.8	59.3	59.1	3.8	217
		57.6	57.6	271.3	268.1	1 21	83.7	86.9	57.9	57.5		
		59.0	59.2	269.3	266.3	1 31	81.5	84.9	56.5	55.9		
791	4.6	54.8	54.4	276.0	272.4	1 21	83.7	86.9	57.9	57.5	3.8	217
		56.2	56.0	273.8	270.5	1 31	81.5	84.9	56.5	55.9		
		57.6	57.6	271.7	268.6	1 41	79.3	82.8	55.1	54.3		
806	3.9	55.6	54.9	279.8	276.3	1 32	81.7	84.7	58.6	58.0	3.9	222
		57.0	56.5	277.6	274.3	1 42	79.5	82.7	57.1	56.4		
		58.4	58.1	275.4	272.4	1 52	77.2	80.6	55.7	54.8		
822	3.2	42.4	42.6	269.6	264.1	1 45	91.3	96.2	45.4	45.7	3.2	223
		43.8	44.2	267.6	262.4	1 55	89.3	94.4	44.0	44.1		
		45.2	45.8	265.6	260.7	2 5	87.2	92.6	42.5	42.5		
814	4.4	50.0	50.4	267.4	263.2	2 8	95.4	99.1	52.9	53.5	3.8	1180
		51.5	52.0	265.4	261.5	2 18	93.4	97.4	51.5	51.9		
		52.9	53.6	263.5	259.8	2 28	91.4	95.6	50.0	50.3		
1592	4.4	45.6	45.3	275.2	270.3	2 20	84.8	89.2	48.8	48.5	3.1	240
		47.0	46.9	273.0	268.4	2 30	82.6	87.2	47.3	46.9		
		48.4	48.5	271.0	266.5	2 40	80.3	85.2	45.9	45.3		
838	5.4	53.4	53.4	272.5	268.8	2 34	88.9	92.2	56.4	56.5	2.0	273
		54.9	55.0	270.5	267.0	2 44	86.8	90.4	55.0	54.9		
		56.3	56.6	268.4	265.1	2 54	84.7	88.4	53.6	53.3		
867	1.3	48.0	47.6	277.1	272.5	2 49	85.8	89.9	50.9	50.7	1.6	268
		49.4	49.2	274.9	270.6	2 59	83.7	88.0	49.5	49.1		
		50.8	50.8	272.8	268.7	3 9	81.4	86.0	48.1	47.5		
867	1.3	49.7	49.5	274.5	270.2	3 1	88.9	92.7	52.6	52.7	2.4	283
		51.1	51.1	272.3	268.3	3 11	86.8	90.9	51.2	51.1		
		52.6	52.7	270.3	266.4	3 21	84.7	88.9	49.7	49.5		
886	4.5	40.9	41.0	270.7	265.0	3 16	91.6	96.8	43.8	44.2	2.7	278
		42.3	42.6	268.7	263.2	3 26	89.6	95.1	42.4	42.6		
		43.7	44.2	266.7	261.6	3 36	87.5	93.3	40.9	41.0		
1618	5.3	45.6	45.3	275.7	270.8	3 28	83.2	87.6	48.7	48.3	2.4	283
		47.0	46.9	273.5	268.9	3 38	80.9	85.6	47.3	46.7		
		48.4	48.5	271.4	267.0	3 48	78.6	83.5	45.9	45.1		
867	1.3	56.4	57.0	268.8	261.6	3 48	95.6	98.4	59.5	60.1	4.2	332
		57.9	58.6	262.9	259.8	3 58	93.6	96.7	58.0	58.5		
		59.3	60.2	261.0	258.1	4 8	91.6	94.8	56.6	56.9		
896	4.6	53.4	53.3	272.0	268.2	4 10	91.2	94.5	56.3	56.6	4.2	332
		54.8	54.9	269.9	266.4	4 20	89.1	92.6	54.9	55.0		
		56.2	56.5	267.9	264.6	4 30	87.0	90.7	53.5	53.4		
6	5.2	46.6	47.0	268.0	263.3	4 22	91.9	96.2	49.5	49.9	3.7	327
		48.1	48.6	266.0	261.6	4 32	89.9	94.4	48.1	48.3		
		49.5	50.2	264.1	259.9	4 42	87.8	92.5	46.7	46.7		
896	4.6	57.2	57.7	266.5	263.3	4 37	96.5	99.3	60.1	60.8	5.0	366
		58.6	59.3	264.5	261.5	4 47	94.5	97.5	58.7	59.2		
		60.1	60.8	262.5	259.7	4 57	92.5	95.7	57.2	57.6		
35	4.4	47.9	47.4	277.8	273.2	4 48	83.2	87.3	50.9	50.5	4.2	332
		49.3	49.0	275.6	271.2	4 58	81.0	85.3	49.5	48.9		
		50.7	50.6	273.4	269.3	5 8	78.7	83.2	48.1	47.3		
14	5.2	57.6	57.4	274.0	270.8	4 58	85.2	88.0	60.7	60.4	5.2	1247
		59.1	59.0	271.9	268.9	5 8	83.0	86.0	59.3	58.8		
		60.5	60.6	269.8	267.0	5 18	80.9	84.0	57.8	57.2		
35	4.4	51.7	51.7	271.9	268.0	5 15	88.9	92.4	54.7	54.7	5.0	366
		53.2	53.3	269.9	266.2	5 25	86.8	90.5	53.2	53.1		
		54.6	55.0	267.9	264.3	5 35	84.6	88.6	51.8	51.5		
1026	5.5	52.4	52.9	266.8	263.0	5 35	96.1	99.5	55.5	56.1	4.4	392
		53.9	54.5	264.8	261.2	5 45	94.1	97.7	54.0	54.6		
		55.3	56.0	262.9	259.5	5 55	92.2	95.9	52.6	53.0		
1055	4.7	47.1	46.5	279.2	274.5	5 48	81.8	86.0	50.0	45.4	5.0	366
		48.5	48.1	276.9	272.5	5 58	79.6	84.0	48.5	47.8		
		49.9	49.7	274.8	270.5	6 8	77.3	81.9	47.1	46.2		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT-55	LAT-50	LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	LAT-55	LAT-50		
61	5.4	55.2	54.9	275.2	271.7	6	3	86.1	89.3	58.0	57.8	5.3	399
		56.6	56.5	273.1	269.8	6	13	88.0	87.3	56.6	56.2		
		58.0	58.1	271.0	267.9	6	23	81.9	85.4	55.2	54.6		
83	5.4	53.0	52.2	281.0	277.2	6	18	82.9	86.3	55.9	55.4	5.3	399
		54.4	53.8	278.8	275.2	6	28	80.8	84.3	54.5	53.8		
		55.9	55.4	276.6	273.2	6	38	78.5	82.3	53.1	52.2		
1055	4.7	53.0	53.1	270.3	266.6	6	29	89.9	93.3	56.1	56.2	5.1	419
		54.4	54.7	268.3	264.7	6	39	87.9	91.4	54.6	54.6		
		55.8	56.3	266.3	263.0	6	49	85.8	89.5	53.2	53.0		
83	5.4	56.0	55.6	276.4	273.0	6	39	85.8	88.8	59.0	58.8	4.5	421
		57.4	57.2	274.2	271.0	6	49	83.7	86.9	57.6	57.1		
		58.9	58.8	272.1	269.1	6	59	81.5	84.9	56.1	55.5		
1055	4.7	56.2	56.8	265.7	262.4	6	52	83.6	86.6	59.4	58.8	5.5	1305
		57.7	58.4	263.8	260.7	7	2	91.6	94.7	58.0	58.2		
		59.1	59.9	261.8	258.9	7	12	89.6	92.9	56.5	56.6		
101	4.5	49.0	49.2	270.1	265.7	7	2	92.6	96.5	51.9	52.3	3.7	434
		50.4	50.8	268.0	263.9	7	12	90.6	94.7	50.4	50.7		
		51.8	52.4	266.1	262.2	7	22	88.5	92.8	49.0	49.0		
133	4.9	45.3	45.0	276.5	271.5	7	27	87.4	91.9	48.3	48.2	3.7	434
		46.7	46.6	274.3	269.6	7	37	85.3	90.0	46.8	46.6		
		48.2	48.2	272.2	267.7	7	47	83.1	88.1	45.4	45.0		
143	4.2	42.8	42.9	271.5	266.1	7	38	89.4	94.2	45.6	45.8	4.9	439
		44.2	44.5	269.4	264.3	7	48	87.3	92.4	44.2	44.2		
		45.6	46.1	267.4	262.6	7	58	85.1	90.6	42.8	42.6		
140	4.3	54.6	53.9	279.7	276.2	7	50	83.0	86.2	57.4	56.9	3.2	453
		56.0	55.5	277.5	274.1	8	0	80.8	84.2	55.9	55.3		
		57.4	57.1	275.4	272.2	8	10	78.6	82.1	54.5	53.7		
140	4.3	56.0	55.5	277.5	274.1	8	0	86.6	89.6	58.8	58.6	2.8	471
		57.4	57.1	275.4	272.2	8	10	84.5	87.5	57.3	57.0		
		58.9	58.7	273.3	270.2	8	20	82.3	85.7	55.9	55.4		
143	4.2	47.9	48.6	264.3	259.9	8	14	95.5	99.5	51.1	51.7	5.0	1331
		49.3	50.2	262.4	258.2	8	24	93.6	97.8	49.7	50.2		
		50.8	51.8	260.5	256.6	8	34	91.6	96.0	48.2	48.6		
1121	4.1	46.4	46.5	270.7	265.9	8	27	93.0	97.3	49.2	49.7	5.0	1331
		47.8	48.1	268.6	264.1	8	37	91.0	95.5	47.8	48.1		
		49.3	49.7	266.6	262.4	8	47	88.9	93.7	46.4	46.5		
1121	4.1	49.1	49.6	266.8	262.6	8	46	92.2	96.1	52.1	52.4	5.4	1342
		50.5	51.2	264.9	260.8	8	56	90.2	94.3	50.6	50.8		
		52.0	52.8	262.9	259.1	9	6	88.1	92.5	49.2	49.2		
1121	4.1	50.5	51.2	264.9	260.8	8	56	97.2	100.8	53.6	54.4	4.4	506
		52.0	52.8	262.9	259.1	9	6	95.3	99.1	52.2	52.8		
		53.4	54.3	261.1	257.5	9	16	93.3	97.4	50.8	51.2		
223	3.2	39.5	39.0	277.6	271.4	9	14	83.1	88.6	42.5	42.1	5.0	1331
		40.9	41.7	275.3	269.5	9	24	81.9	86.6	41.1	40.5		
		42.3	42.3	273.1	267.6	9	34	78.5	84.6	39.7	38.9		
170	3.9	55.5	56.1	264.6	261.2	9	24	97.1	100.2	58.3	59.1	5.0	532
		56.9	57.7	262.6	259.5	9	34	95.2	98.4	56.9	57.5		
		58.3	59.2	260.7	257.7	9	44	93.2	96.6	55.5	55.9		
215	2.8	45.1	45.1	272.5	267.5	9	34	89.7	94.1	48.2	48.4	4.4	506
		46.6	46.7	270.4	265.6	9	44	87.6	92.3	46.8	46.7		
		48.0	48.3	268.3	263.9	9	54	85.5	90.4	45.3	45.1		
223	3.2	43.7	43.9	271.0	265.8	9	44	87.6	92.3	46.8	46.7	4.4	506
		45.2	45.5	269.0	264.1	9	54	85.5	90.4	45.3	45.1		
		46.6	47.1	267.0	262.3	10	4	83.3	88.5	43.9	43.5		
238	4.5	42.1	41.9	274.8	269.3	9	55	85.3	90.2	45.2	45.0	4.4	506
		43.5	43.5	272.7	267.4	10	5	83.1	88.3	43.8	43.8		
		45.0	45.1	270.6	265.6	10	15	80.8	86.3	42.3	41.8		
215	2.8	49.9	50.4	265.8	261.6	10	7	97.7	101.4	52.9	53.7	5.3	1389
		51.3	52.0	263.8	259.9	10	17	95.8	99.7	51.4	52.1		
		52.7	53.6	261.9	258.2	10	27	93.9	98.0	50.0	50.5		
223	3.2	48.5	49.1	264.5	260.1	10	17	95.8	99.7	51.4	52.1	5.3	1389
		49.9	50.7	262.5	258.5	10	27	93.9	98.0	50.0	50.5		
		51.3	52.3	260.7	256.8	10	37	91.9	96.2	48.6	48.9		
238	4.5	46.8	47.2	267.9	263.3	10	28	93.7	97.8	49.9	50.4	5.3	1389
		48.3	48.8	266.0	261.6	10	38	91.7	96.1	48.4	48.8		
		49.7	50.4	264.0	259.9	11	48	89.6	94.3	47.0	47.2		
1178	5.3	42.3	42.7	268.7	263.2	10	41	89.9	94.8	45.3	45.5	4.1	544
		43.8	44.3	266.7	261.5	10	51	87.8	93.0	43.9	43.9		
		45.2	45.9	264.8	259.9	11	1	85.6	91.1	42.5	42.3		

CATNO	MAG	WEST STAR				AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.								Z. D.					
		LAT-55	LAT-50	LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	LAT-55	LAT-50				
273	2.0	50.3	49.6	280.4	276.2	10	58	81.9	85.7	53.2	52.7	3.4	556		
		51.7	51.2	278.1	274.2	11	8	79.7	83.6	51.8	51.1				
		53.1	52.8	276.0	272.2	11	18	77.4	81.6	50.4	49.5				
268	1.6	51.2	51.1	273.7	269.7	11	9	88.9	92.5	54.2	54.2	3.8	575		
		52.7	52.7	271.6	267.8	11	19	86.8	90.6	52.7	52.6				
		54.1	54.3	269.5	265.9	11	29	84.6	88.7	51.3	51.0				
268	1.6	53.5	53.7	270.4	266.7	11	25	88.5	91.8	56.5	56.5	3.0	592		
		55.0	55.3	268.3	264.8	11	35	86.4	89.9	55.1	54.9				
		56.4	56.9	266.3	263.0	11	45	84.3	88.0	53.7	53.3				
268	1.6	55.5	55.9	267.5	264.1	11	39	92.1	95.2	58.6	58.0	1.2	616		
		57.0	57.5	265.5	262.3	11	49	90.1	93.3	57.2	57.4				
		58.4	59.1	263.6	260.6	11	59	88.0	91.4	55.8	55.8				
283	2.4	53.7	53.9	269.6	265.9	11	53	89.3	92.6	56.6	56.7	1.2	616		
		55.1	55.5	267.5	264.1	12	3	87.2	90.7	55.2	55.1				
		56.5	57.1	265.6	262.3	12	13	85.1	88.8	53.8	53.5				
313	4.4	44.1	44.4	268.9	263.8	12	18	91.6	96.2	47.2	47.5	4.3	1431		
		45.5	46.0	266.9	262.0	12	28	89.6	94.4	45.7	45.9				
		47.0	47.6	264.9	260.3	12	38	87.5	92.6	44.3	44.3				
308	2.9	57.5	57.3	273.6	270.4	12	36	91.5	93.3	60.4	60.5	4.3	1457		
		58.9	58.9	271.5	268.5	12	46	89.4	91.4	58.9	58.9				
		60.3	60.5	269.4	266.6	12	56	87.3	89.5	57.5	57.3				
1210	4.9	55.8	56.4	264.7	261.3	12	47	95.2	98.2	59.0	59.6	4.7	1464		
		57.3	58.0	262.7	259.6	12	57	93.2	96.4	57.6	58.0				
		58.7	59.6	260.8	257.9	13	7	91.2	94.6	56.1	56.4				
356	4.6	40.8	40.6	275.3	269.4	13	2	86.0	91.2	43.8	43.7	2.4	628		
		42.2	42.2	273.1	267.6	13	12	83.8	89.3	42.4	42.1				
		43.7	43.8	271.0	265.8	13	22	81.5	87.3	41.0	40.5				
327	3.7	51.9	52.5	264.8	261.0	13	20	94.3	97.8	54.9	55.4	3.1	679		
		53.3	54.1	262.9	259.3	13	30	92.4	96.0	53.5	53.8				
		54.7	55.7	261.0	257.6	13	40	90.3	94.2	52.1	52.2				
332	4.2	57.0	57.3	267.9	264.7	13	34	92.1	95.0	59.9	60.2	2.9	692		
		58.4	58.9	265.9	262.9	13	44	90.1	93.2	58.5	58.6				
		59.9	60.5	263.9	261.1	13	54	88.0	91.3	57.0	57.0				
1243	4.9	55.5	55.3	273.4	269.9	13	45	89.9	93.0	58.3	58.4	2.9	692		
		56.9	56.9	271.3	268.0	13	55	87.8	91.1	56.9	56.8				
		58.4	58.6	269.2	266.1	14	5	85.7	89.2	55.4	55.2				
366	5.1	53.0	52.9	273.6	269.8	14	0	86.8	90.2	56.2	56.0	2.9	692		
		54.4	54.5	271.5	267.9	14	10	84.7	88.2	54.7	54.4				
		55.9	56.1	269.4	266.0	14	20	82.5	86.3	53.3	52.8				
392	4.4	46.7	46.3	276.5	271.8	14	16	85.5	89.8	49.5	49.3	2.8	687		
		48.1	47.9	274.4	269.9	14	26	83.3	87.8	48.1	47.7				
		49.5	49.5	272.2	268.0	14	36	81.1	85.8	46.7	46.1				
414	4.7	39.6	39.5	274.5	268.4	14	27	89.1	94.5	42.4	42.6	3.2	683		
		41.1	41.1	272.3	266.6	14	37	87.0	92.7	41.0	41.0				
		42.5	42.7	270.3	264.9	14	47	84.8	90.9	39.5	39.3				
399	5.3	54.9	54.3	278.6	275.1	14	41	81.2	84.4	57.9	57.3	3.6	710		
		56.3	55.9	276.4	273.1	14	51	79.0	82.3	56.5	55.7				
		57.7	57.5	274.3	271.1	15	1	76.7	80.2	55.1	54.1				
419	5.1	49.1	49.4	280.6	276.2	14	51	82.4	86.3	52.1	51.6	2.1	706		
		50.5	50.0	278.3	274.2	15	1	80.2	84.3	50.7	50.0				
		51.9	51.6	276.1	272.2	15	11	77.9	82.2	49.3	48.4				
419	5.1	52.5	52.2	275.3	271.4	15	15	85.1	88.5	55.7	55.4	4.7	736		
		53.9	53.8	273.1	269.5	15	25	82.9	86.6	54.2	53.8				
		55.4	55.4	271.0	267.6	15	35	80.7	84.5	52.8	52.2				
421	4.5	56.5	56.0	277.9	274.6	15	25	81.3	84.2	59.7	59.0	5.1	1517		
		57.9	57.6	275.7	272.6	15	35	79.1	82.2	58.2	57.4				
		59.4	59.2	273.6	270.7	15	45	76.9	80.1	56.8	55.8				
419	5.1	57.2	57.5	268.4	265.2	15	48	95.3	98.1	60.1	60.7	4.2	1546		
		58.7	59.1	266.4	263.4	15	58	93.3	96.3	58.7	59.1				
		60.1	60.7	264.4	261.6	16	8	91.3	94.5	57.2	57.5				
439	4.9	48.7	49.2	266.3	262.0	16	2	95.5	99.4	51.6	52.2	5.5	1540		
		50.1	50.8	264.3	260.3	16	12	93.5	97.6	50.1	50.6				
		51.6	52.4	262.4	258.6	16	22	91.5	95.9	48.7	49.0				
439	4.9	50.6	51.3	263.8	259.7	16	15	96.0	99.6	53.6	54.3	4.7	1550		
		52.0	52.9	261.9	258.1	16	25	94.1	97.9	52.1	52.7				
		53.4	54.4	260.0	256.4	16	35	92.1	96.1	50.7	51.1				
1331	5.0	43.9	43.7	278.7	269.5	16	35	88.9	93.6	46.9	47.0	5.5	1540		
		45.3	45.3	272.6	267.6	16	45	86.8	91.7	45.4	45.4				
		46.9	46.9	270.5	265.8	16	55	84.6	89.8	44.0	43.7				

CATNO	MAG	WEST STAR				LST		AZ		EAST STAR		MAG	CATNO
		Z. D.		AZ		HRS	MIN	AZ		Z. D.			
		LAT-55	LAT-50	LAT-55	LAT-50			LAT-55	LAT-50	LAT-55	LAT-50		
471	2.8	56.5	56.1	276.8	273.4	16	51	86.3	89.2	59.6	59.4	3.9	806
		58.0	57.7	274.6	271.5	17	1	88.1	87.3	58.1	57.8		
		59.4	59.3	272.5	269.6	17	11	82.0	85.3	56.7	56.2		
1331	5.0	48.6	49.0	267.8	263.5	17	8	94.9	98.8	51.7	52.3	4.4	814
		50.1	50.6	265.9	261.7	17	18	92.9	97.0	50.2	50.7		
		51.5	52.2	263.9	260.0	17	28	90.9	95.3	48.8	49.1		
506	4.4	43.5	43.0	277.4	272.1	17	22	85.7	90.5	46.4	46.3	4.8	801
		44.9	44.6	275.2	270.2	17	32	83.6	88.6	45.0	44.7		
		46.3	46.3	273.0	268.3	17	42	81.3	86.6	43.6	43.0		
495	3.3	57.8	57.5	275.3	272.1	17	43	86.3	89.1	60.6	60.4	5.4	1584
		59.2	59.1	273.2	270.2	17	53	84.2	87.2	59.2	58.8		
		60.6	60.7	271.1	268.3	18	3	82.0	85.2	57.8	57.2		
1373	4.2	40.0	40.1	272.2	266.3	17	57	91.1	96.5	42.8	43.2	3.2	822
		41.5	41.7	270.2	264.5	18	7	89.1	94.7	41.4	41.6		
		42.9	43.3	268.1	262.8	18	17	87.0	92.9	40.0	40.0		
544	4.1	40.2	39.8	277.9	271.9	18	8	82.4	87.8	43.1	42.7	4.4	814
		41.6	41.4	275.6	270.0	18	18	80.1	85.7	41.7	41.1		
		43.1	43.0	273.5	268.1	18	28	77.7	83.7	40.3	39.5		
544	4.1	41.8	41.5	275.4	269.8	18	19	85.1	90.2	44.9	44.7	4.6	832
		43.2	43.2	273.3	267.9	18	29	82.9	88.2	43.5	43.1		
		44.6	44.8	271.1	266.1	18	39	80.6	86.2	42.0	41.5		
544	4.1	43.6	43.6	272.6	267.4	18	32	86.7	91.4	46.8	46.7	4.4	1592
		45.1	45.2	270.5	265.6	18	42	84.5	89.5	45.4	45.1		
		46.5	46.8	268.5	263.8	18	52	82.3	87.5	43.9	43.5		
544	4.1	45.2	45.4	270.3	265.4	18	43	93.2	97.7	48.1	48.5	5.1	1601
		46.6	47.0	268.3	263.6	18	53	91.3	95.9	46.6	47.0		
		48.1	48.6	266.3	261.9	19	3	89.2	94.2	45.2	45.4		
544	4.1	47.1	47.5	267.7	263.1	18	56	91.7	95.9	50.0	50.3	4.5	879
		48.5	49.1	265.7	261.4	19	6	89.7	94.1	48.6	48.7		
		49.9	50.7	263.8	259.7	19	16	87.6	92.2	47.1	47.1		
544	4.1	48.8	49.4	265.3	261.0	19	8	93.3	97.2	51.8	52.2	5.3	1618
		50.2	51.0	263.4	259.3	19	18	91.3	95.4	50.3	50.6		
		51.6	52.5	261.5	257.7	19	28	89.2	93.6	48.9	49.0		
586	4.1	42.8	42.5	277.0	271.6	19	26	85.4	90.3	45.7	45.5	4.5	879
		44.3	44.1	274.8	269.7	19	36	83.3	88.4	44.3	43.9		
		45.7	45.7	272.7	267.8	19	46	81.0	86.4	42.9	42.3		
586	4.1	44.5	44.4	274.4	269.3	19	38	87.1	91.7	47.5	47.4	5.3	1618
		46.0	46.0	272.3	267.4	19	48	85.0	89.8	46.0	45.8		
		47.4	47.6	270.2	265.6	19	58	82.8	87.9	44.6	44.2		
1431	4.3	39.6	39.0	279.9	273.8	19	49	80.3	85.8	42.4	41.8	4.5	879
		41.0	40.6	277.6	271.8	19	59	78.0	83.7	41.0	40.2		
		42.4	42.2	275.3	269.8	20	9	75.5	81.6	39.6	38.6		
1399	5.3	54.5	55.1	264.4	260.9	20	0	96.2	99.3	57.5	58.2	4.4	35
		55.9	56.7	262.5	259.2	20	10	94.2	97.5	56.1	56.6		
		57.3	58.2	260.6	257.5	20	20	92.2	95.7	54.7	55.0		
594	2.5	56.8	56.3	277.7	274.4	20	15	85.3	88.2	59.7	59.8	5.5	1018
		58.3	57.9	275.5	272.4	20	25	83.1	86.2	58.3	57.8		
		59.7	59.5	273.4	270.5	20	35	80.9	84.2	56.9	56.2		
616	1.2	51.2	50.6	278.9	274.9	20	25	80.8	84.4	54.2	53.5	5.2	14
		52.6	52.2	276.7	272.9	20	35	78.6	82.4	52.8	51.9		
		54.0	53.8	274.6	270.9	20	45	76.3	80.3	51.4	50.3		
607	3.1	57.0	57.0	271.8	268.6	20	53	91.7	94.6	60.0	60.2	5.4	61
		58.4	58.6	269.7	266.7	21	3	89.7	92.7	58.5	58.6		
		59.8	60.2	267.7	264.8	21	13	87.6	90.9	57.1	57.0		
646	4.4	45.7	45.0	280.4	275.6	21	3	83.2	87.6	48.5	48.1	4.4	35
		47.1	46.6	278.2	273.5	21	13	81.0	85.6	47.1	46.5		
		48.5	48.2	276.0	271.5	21	23	78.7	83.6	45.7	44.9		
1457	4.3	55.5	55.0	276.7	273.3	21	40	82.0	85.1	58.4	57.8	4.2	71
		56.9	56.6	274.6	271.3	21	50	79.8	83.1	57.0	56.2		
		58.3	58.2	272.5	269.4	22	0	77.6	81.0	55.6	54.7		
687	2.8	46.6	46.0	279.0	274.3	22	3	84.4	88.7	49.4	49.1	4.7	1055
		48.0	47.6	276.8	272.3	22	13	82.2	86.8	48.0	47.5		
		49.4	49.2	274.6	270.3	22	23	80.0	84.7	46.6	45.9		
692	2.9	54.0	53.5	276.5	272.8	22	38	84.8	88.1	57.0	56.7	4.2	1085
		55.4	55.2	274.4	270.9	22	48	82.7	86.1	55.6	55.1		
		56.8	56.8	272.3	269.0	22	58	80.5	84.1	54.2	53.5		
706	2.1	51.7	51.1	278.3	274.3	22	54	81.3	84.9	54.8	54.2	4.2	1085
		53.1	52.7	276.1	272.3	23	4	79.1	82.8	53.4	52.6		
		54.5	54.3	273.9	270.4	23	14	76.8	80.7	52.0	51.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.		LAT-55	LAT-50	HRS	MIN	LAT-55	LAT-50	Z. D.			
		LAT-55	LAT-50							LAT-55	LAT-50		
751	4.4	39.5	39.0	278.5	272.4	23	20	80.1	85.5	42.5	41.9	4.5	101
		40.9	40.6	276.3	270.5	23	30	77.7	83.4	41.1	40.3		
		42.3	42.2	274.1	268.6	23	40	75.3	81.3	39.7	38.7		
736	4.7	52.7	52.0	279.5	275.7	23	35	81.8	85.3	55.6	55.0	4.3	140
		54.1	53.6	277.3	273.6	23	45	79.6	83.2	54.2	53.4		
		55.5	55.2	275.1	271.7	23	55	77.3	81.1	52.8	51.8		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT-50	LAT-45	LAT-50	LAT-45	HRS	MIN	LAT-50	LAT-45	LAT-50	LAT-45		
1550	4.7	39.2	38.7	278.3	272.2	0	11	85.4	90.9	42.5	42.4	4.9	133
		40.8	40.5	276.2	270.3	0	21	83.3	89.1	40.9	40.6		
		42.4	42.3	274.1	268.6	0	31	81.2	87.3	39.3	38.8		
1540	5.5	45.2	45.5	268.5	263.6	0	32	90.3	94.7	48.6	48.9	3.9	170
		46.8	47.3	266.7	262.0	0	42	88.4	93.1	47.0	47.1		
		48.4	49.0	264.8	260.5	0	52	86.4	91.4	45.4	45.3		
779	4.3	52.8	52.6	274.0	270.1	0	51	85.0	88.4	56.1	55.8	3.3	186
		54.4	54.4	272.0	268.4	1	1	83.0	86.6	54.5	54.0		
		56.0	56.1	270.0	266.7	1	11	80.9	84.7	52.9	52.3		
791	4.6	51.2	52.8	276.4	272.4	1	1	83.0	86.6	54.5	54.0	3.2	186
		52.8	52.6	274.4	270.6	1	11	80.9	84.7	52.9	52.3		
		54.4	54.3	272.4	268.8	1	21	78.8	82.8	51.3	50.5		
806	3.9	53.0	52.4	278.8	275.1	1	20	82.4	85.8	56.3	55.8	3.0	204
		54.6	54.1	276.8	273.2	1	30	80.3	83.9	54.7	54.0		
		56.2	55.9	274.7	271.4	1	40	78.2	81.9	53.1	52.2		
806	3.9	54.7	54.3	276.6	273.0	1	31	84.9	88.1	58.1	57.8	3.9	222
		56.3	56.1	274.5	271.2	1	41	82.9	86.2	56.5	56.1		
		57.9	57.8	272.5	269.4	1	51	80.8	84.4	54.9	54.3		
801	4.3	51.2	51.9	263.0	260.0	1	42	96.2	99.7	54.6	55.3	3.1	240
		52.8	53.6	262.1	259.4	1	52	94.4	98.1	53.0	53.5		
		54.3	55.3	260.4	256.9	2	2	92.6	96.5	51.4	51.8		
1592	4.4	45.2	45.3	270.5	265.5	2	19	80.4	93.8	48.6	48.8	3.1	240
		46.8	47.1	268.6	263.9	2	29	78.4	92.1	47.0	47.0		
		48.4	48.8	266.7	262.3	2	39	76.4	90.3	45.4	45.3		
838	5.4	53.2	53.5	269.0	265.3	2	33	92.4	95.7	56.6	57.0	2.0	273
		54.8	55.2	267.1	263.7	2	43	90.5	94.0	55.0	55.2		
		56.4	57.3	265.2	262.0	2	53	88.6	92.3	53.4	53.5		
879	4.6	41.3	41.1	274.0	269.2	2	43	84.6	88.6	44.8	44.5	3.1	244
		42.9	42.9	272.0	267.5	2	53	82.5	87.8	43.2	42.8		
		44.5	44.6	270.0	265.8	3	3	80.3	86.0	41.6	41.0		
879	4.5	43.0	43.3	272.7	267.3	2	54	90.8	95.6	46.2	46.4	3.8	1180
		44.6	44.8	270.7	265.7	3	4	88.9	94.0	44.6	44.7		
		46.3	46.6	268.8	264.0	3	14	86.9	92.3	43.0	42.9		
854	4.2	55.3	55.6	267.8	264.4	3	9	92.0	95.1	58.5	58.8	3.5	1204
		56.9	57.4	266.0	262.8	3	19	90.1	93.4	56.9	57.1		
		58.5	59.1	264.2	261.2	3	29	88.2	91.7	55.3	55.3		
854	4.2	56.0	57.4	266.0	262.8	3	19	93.1	95.9	60.2	60.6	2.9	308
		57.5	59.1	264.2	261.2	3	29	91.2	94.3	58.6	58.9		
		59.1	61.9	262.4	259.6	3	39	89.3	92.6	57.0	57.1		
873	3.8	58.2	57.0	274.3	271.2	3	30	84.8	87.6	61.5	61.2	4.6	1212
		59.9	59.7	272.3	269.4	3	40	82.8	85.7	59.9	59.4		
		61.4	61.5	270.4	267.7	3	50	80.8	83.9	58.3	57.6		
6	5.2	40.9	41.1	270.2	264.5	3	44	93.7	98.1	44.2	44.7	4.6	290
		42.5	42.9	268.3	262.9	3	54	91.2	96.5	42.6	43.2		
		44.1	44.7	266.5	261.4	4	4	89.2	95.0	41.0	41.2		
896	4.6	53.3	53.7	268.0	264.5	4	10	94.5	97.7	56.6	57.1	4.2	332
		54.9	55.4	266.4	262.9	4	20	92.6	96.1	55.0	55.4		
		56.5	57.2	264.6	261.3	4	30	90.7	94.5	53.4	53.6		
896	4.6	56.4	57.1	264.7	261.5	4	29	95.2	98.0	59.7	60.3	4.9	1243
		58.0	58.7	262.9	259.9	4	39	93.3	96.4	58.1	58.5		
		59.6	60.5	261.1	258.3	4	49	91.5	94.8	56.5	56.8		
35	4.4	47.2	47.2	273.4	268.8	4	47	87.5	91.6	50.6	50.6	4.2	332
		48.9	48.9	271.4	267.1	4	57	85.5	89.8	49.0	48.8		
		50.5	50.7	269.5	265.4	5	7	83.4	88.0	47.4	47.1		
14	5.2	57.3	57.3	271.0	267.8	4	57	88.2	91.0	60.6	60.5	5.2	1247
		58.9	59.1	269.1	266.1	5	7	86.2	89.2	58.9	58.7		
		60.5	60.9	267.2	264.4	5	17	84.2	87.4	57.3	57.0		
1055	4.7	42.0	41.4	280.5	274.0	5	20	80.6	85.6	45.4	44.8	4.2	332
		43.6	43.1	278.3	273.0	5	30	78.4	83.7	43.8	43.0		
		45.2	44.9	276.1	271.2	5	40	76.1	81.6	42.2	41.2		
1043	5.1	55.7	55.3	276.6	273.2	5	37	82.0	85.9	59.2	58.7	5.2	373
		57.3	57.1	274.6	271.4	5	47	80.8	84.0	57.6	56.9		
		58.9	58.8	272.6	269.6	5	57	78.7	82.1	56.0	55.2		
1055	4.7	46.3	46.1	274.7	269.9	5	47	86.2	90.5	49.6	49.4	5.0	366
		47.9	47.9	272.7	268.2	5	57	84.2	88.7	48.0	47.7		
		49.6	49.7	270.7	266.5	6	7	82.1	86.9	46.4	45.9		
61	5.4	54.7	54.7	271.0	268.4	6	2	89.5	92.6	58.0	58.1	5.3	399
		56.3	56.5	270.0	266.7	6	12	87.5	90.9	56.4	56.3		
		57.9	58.2	268.1	265.0	6	22	85.6	89.1	54.8	54.5		

CATNO	MAG	WEST STAR				EAST STAR				MAG	CATNO		
		Z. D.		AZ		LST		AZ				Z. D.	
		LAT-50	LAT-45	LAT-50	LAT-45	HRS	MIN	LAT-50	LAT-45			LAT-50	LAT-45
83	5.4	52.2	51.8	277.2	273.3	6	18	86.3	89.8	55.4	55.3	5.3	399
		53.8	53.6	275.2	271.5	6	28	88.3	88.0	53.8	53.5		
		55.4	55.3	273.2	269.7	6	38	82.3	86.2	52.2	51.7		
1055	4.7	52.9	53.4	266.8	263.0	6	28	93.5	96.8	56.4	56.8	5.1	419
		54.5	55.1	264.9	261.4	6	38	91.6	95.1	54.8	55.0		
		56.1	56.9	263.1	259.9	6	48	89.7	93.4	53.1	53.3		
83	5.4	55.6	55.5	273.0	269.5	6	39	88.8	91.9	58.8	58.8	4.5	421
		57.2	57.3	271.0	267.8	6	49	86.9	90.1	57.1	57.0		
		58.8	59.0	269.1	266.1	6	59	84.9	88.3	55.5	55.2		
102	4.8	55.0	54.4	278.7	275.2	6	51	80.4	83.5	59.2	57.5	4.2	1283
		56.6	56.2	276.6	273.3	7	1	78.3	81.6	56.7	55.8		
		58.2	57.9	274.6	271.5	7	11	76.2	79.6	55.1	54.0		
101	4.5	49.0	49.5	265.9	261.6	7	1	96.6	100.4	52.4	53.2	3.7	434
		50.6	51.3	264.1	260.1	7	11	94.8	98.9	50.8	51.4		
		52.2	53.0	262.4	258.6	7	21	93.0	97.3	49.2	49.7		
133	4.9	45.0	45.0	271.5	266.5	7	27	91.9	96.3	48.2	48.6	3.7	434
		46.5	46.8	269.6	264.9	7	37	90.0	94.7	46.6	46.8		
		48.2	48.6	267.7	263.3	7	47	88.1	93.1	45.0	45.1		
143	4.2	42.7	43.3	266.2	260.9	7	37	94.4	99.2	45.9	46.5	4.9	439
		44.3	45.0	264.5	259.5	7	47	92.6	97.7	44.3	44.8		
		45.9	46.7	262.7	258.0	7	57	90.7	96.1	42.7	43.0		
140	4.3	53.7	53.3	276.4	272.7	7	49	86.4	89.6	57.0	56.9	3.2	453
		55.3	55.1	274.3	270.9	7	59	84.4	87.9	55.4	55.1		
		56.9	56.9	272.4	269.1	8	9	82.3	86.0	53.8	53.3		
140	4.3	55.5	55.3	274.1	270.7	8	0	89.6	92.7	58.6	58.7	2.8	471
		57.1	57.1	272.2	268.9	8	10	87.7	90.9	57.0	56.9		
		58.7	58.8	270.2	267.2	8	20	85.7	89.2	55.4	55.2		
197	4.9	41.9	42.2	269.7	264.1	8	55	92.2	97.1	45.2	45.6	5.0	1331
		43.5	43.9	267.8	262.6	9	5	90.3	95.6	43.6	43.8		
		45.1	45.7	266.0	261.1	9	15	88.4	94.0	42.0	42.1		
215	2.9	40.5	40.5	273.1	267.2	9	5	90.3	95.6	43.6	43.8	5.0	1331
		42.1	42.2	271.1	265.5	9	15	88.4	94.0	42.0	42.1		
		43.7	44.0	269.2	264.0	9	25	86.4	92.3	40.4	40.3		
1160	4.4	38.6	38.6	273.0	266.7	9	16	88.2	93.8	41.8	41.9	5.0	1331
		40.2	40.4	271.0	265.1	9	26	86.2	92.1	40.2	40.1		
		41.8	42.2	269.1	263.5	9	36	84.1	90.4	38.6	38.4		
215	2.9	45.1	45.6	267.5	262.5	9	34	94.1	98.5	48.4	48.9	4.4	506
		46.7	47.3	265.6	261.0	9	44	92.3	97.0	46.7	47.2		
		48.3	49.1	263.9	259.5	9	54	90.4	95.4	45.1	45.4		
1160	4.4	43.3	43.7	267.4	262.1	9	45	92.1	96.8	46.6	47.0	4.4	506
		44.9	45.5	265.6	260.6	9	55	90.2	95.2	45.0	45.2		
		46.5	47.2	263.8	259.2	10	5	88.3	93.6	43.4	43.5		
240	3.1	47.7	47.7	271.8	267.3	10	14	91.1	95.1	51.1	51.4	5.0	532
		49.3	49.5	269.9	265.6	10	24	89.2	93.5	49.5	49.6		
		50.9	51.2	268.0	264.0	10	34	87.2	91.8	47.9	47.8		
268	1.6	44.2	43.7	278.3	273.2	10	26	81.7	86.2	47.6	47.1	3.5	519
		45.8	45.5	276.2	271.3	10	36	79.5	84.3	46.0	45.3		
		47.4	47.2	274.2	269.6	10	46	77.3	82.4	44.5	43.6		
268	1.6	47.7	47.6	273.8	269.2	10	48	85.1	89.2	51.1	50.9	5.4	1385
		49.3	49.4	271.8	267.5	10	58	83.1	87.4	49.5	49.1		
		50.9	51.1	269.9	265.8	11	8	81.0	85.5	47.9	47.3		
273	2.0	49.6	49.2	276.2	271.9	10	58	85.7	89.5	52.7	52.5	3.4	556
		51.2	51.0	274.2	270.1	11	8	83.6	87.7	51.1	50.7		
		52.8	52.7	272.2	268.4	11	18	81.6	85.8	49.5	48.9		
268	1.6	50.9	51.1	269.9	265.8	11	8	92.7	96.2	54.4	54.8	3.8	579
		52.5	52.9	268.0	264.2	11	18	90.8	94.6	52.8	53.0		
		54.2	54.6	266.1	262.5	11	28	88.9	92.9	51.2	51.2		
283	2.4	48.9	48.9	271.8	267.4	11	22	90.0	93.9	52.1	52.3	3.8	579
		50.5	50.7	269.8	265.7	11	32	88.1	92.2	50.5	50.5		
		52.1	52.4	267.9	264.1	11	42	86.1	90.5	48.9	48.8		
288	4.5	53.8	53.3	278.1	274.5	11	32	81.8	85.0	57.3	56.8	5.0	1413
		55.4	55.0	276.1	272.6	11	42	79.7	83.1	55.8	55.0		
		57.0	56.9	274.1	270.8	11	52	77.5	81.1	54.2	53.3		
288	4.5	55.7	55.4	275.7	272.3	11	44	84.2	87.2	59.1	58.7	2.9	597
		57.3	57.2	273.7	270.5	11	54	82.2	85.4	57.5	56.9		
		58.9	58.9	271.7	268.7	12	4	80.1	83.5	55.9	55.2		
308	2.9	50.9	50.3	278.4	274.3	11	56	83.0	86.6	54.3	53.8	2.5	594
		52.5	52.1	276.3	272.4	12	6	80.9	84.8	52.7	52.1		
		54.1	53.9	274.3	270.6	12	16	78.8	82.8	51.1	50.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		FAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-50	LAT-45	LAT-50	LAT-45	HRS	MIN	LAT-50	LAT-45		
332	4.2	45.0	44.3	279.9	274.9	12	17	81.5	85.9	48.2	47.7	3.0	592
		46.6	46.1	277.7	273.0	12	27	79.3	84.0	46.6	45.9		
		48.2	47.9	275.6	271.1	12	37	77.1	82.0	45.1	44.1		
332	4.2	47.2	46.8	276.9	272.2	12	31	85.2	89.3	50.6	50.4	1.2	616
		48.8	48.6	274.8	270.4	12	41	83.1	87.5	49.0	48.6		
		50.4	50.4	272.8	268.7	12	51	81.0	85.6	47.4	46.8		
356	4.6	38.8	39.0	271.6	265.4	12	51	90.2	95.7	42.2	42.5	4.3	1431
		40.4	40.7	269.6	263.8	13	1	88.2	94.1	40.6	40.7		
		42.0	42.5	267.8	262.3	13	11	86.2	92.4	39.0	38.9		
356	4.6	40.4	40.7	269.6	263.8	13	1	91.4	96.5	43.9	44.2	2.4	628
		42.0	42.5	267.8	262.3	13	11	89.5	95.0	42.3	42.5		
		43.6	44.2	265.9	260.8	13	21	87.5	93.3	40.7	40.7		
1243	4.9	50.0	49.7	276.5	272.2	13	12	86.3	90.0	53.5	53.3	3.4	644
		51.6	51.4	274.4	270.4	13	22	84.2	88.2	51.9	51.5		
		53.3	53.2	272.4	268.7	13	32	82.2	86.3	50.3	48.8		
332	4.2	57.2	57.7	264.9	261.7	13	33	95.2	98.0	60.4	60.9	2.9	692
		58.8	59.5	263.0	260.1	13	43	93.4	96.4	58.8	58.2		
		60.3	61.2	261.3	258.5	13	53	91.5	94.7	57.2	57.4		
1243	4.9	55.3	55.5	269.9	266.5	13	45	93.0	96.0	58.4	58.8	2.9	692
		56.9	57.3	268.0	264.8	13	55	91.1	94.4	56.8	57.1		
		58.6	59.0	266.1	263.1	14	5	89.2	92.7	55.2	55.3		
366	5.0	52.7	52.9	270.0	266.2	13	59	90.3	93.7	56.2	56.4	2.9	692
		54.3	54.6	268.1	264.5	14	9	88.4	92.0	54.6	54.6		
		55.9	56.4	266.2	262.9	14	19	86.5	90.2	53.0	52.8		
392	4.4	46.1	46.2	272.0	267.2	14	15	90.0	94.2	49.5	49.6	2.8	687
		47.8	47.9	270.1	265.5	14	25	88.0	92.5	47.9	47.9		
		49.4	49.7	268.2	263.9	14	35	86.0	90.8	46.3	46.1		
414	4.7	39.3	39.7	268.6	262.6	14	26	98.7	100.0	42.7	43.4	3.2	683
		41.0	41.5	266.8	261.1	14	36	92.9	98.6	41.1	41.6		
		42.6	43.2	265.0	259.7	14	46	91.1	97.1	39.5	39.9		
419	5.1	46.5	45.9	278.7	274.0	14	39	82.4	86.6	49.8	49.3	2.9	692
		48.1	47.7	276.6	272.1	14	49	80.2	84.7	48.2	47.5		
		49.7	49.4	274.6	270.3	14	59	78.0	82.8	46.6	45.8		
434	3.7	40.5	40.1	277.7	271.8	14	49	83.1	89.3	44.0	43.6	2.8	687
		42.1	41.9	275.6	270.0	14	59	81.0	86.5	42.4	41.9		
		43.7	43.7	273.5	268.3	15	9	78.7	84.6	40.8	40.1		
421	4.5	52.5	51.8	279.1	275.2	15	3	82.3	85.7	55.8	55.2	3.0	726
		54.1	53.6	277.0	273.4	15	13	80.2	83.8	54.2	53.5		
		55.6	55.4	275.0	271.5	15	23	78.0	81.9	52.6	51.7		
419	5.1	52.1	52.1	271.6	267.7	15	14	88.7	92.1	55.5	55.6	4.7	736
		53.7	53.9	269.7	266.0	15	24	86.8	90.4	53.9	53.8		
		55.3	55.6	267.8	264.3	15	34	84.7	88.6	52.3	52.0		
421	4.5	55.8	55.5	274.8	271.4	15	24	84.4	87.4	59.2	58.8	5.1	1517
		57.4	57.3	272.8	269.6	15	34	82.4	85.6	57.6	57.1		
		59.0	59.1	270.8	267.8	15	44	80.3	83.7	56.0	55.3		
1305	5.5	48.9	48.5	276.6	272.2	15	35	94.5	98.4	52.2	51.9	4.7	736
		50.5	50.2	274.6	271.4	15	45	92.5	96.6	50.6	50.1		
		52.1	52.0	272.6	268.7	15	55	90.4	94.7	49.0	48.3		
419	5.1	57.5	58.1	265.2	262.1	15	48	98.1	100.8	60.7	61.5	4.2	1546
		59.1	59.8	263.4	260.4	15	58	96.3	99.2	59.1	59.8		
		60.7	61.6	261.6	258.9	16	8	94.5	97.6	57.5	58.0		
1305	5.5	54.3	54.5	269.8	266.3	16	9	91.8	95.0	57.6	57.9	4.3	779
		55.9	56.2	267.9	264.6	16	19	89.9	93.3	56.0	56.1		
		57.5	58.0	266.1	262.9	16	29	88.0	91.6	54.4	54.3		
1305	5.5	56.1	56.4	267.8	264.4	16	20	93.5	96.4	59.4	58.8	4.6	791
		57.7	58.2	265.9	262.8	16	30	91.6	94.7	57.8	58.0		
		59.3	59.9	264.1	261.2	16	40	89.7	93.1	56.1	56.3		
1331	5.0	43.7	44.0	269.5	264.3	16	35	93.6	98.2	47.0	47.5	5.5	1540
		45.3	45.7	267.6	262.7	16	45	91.7	96.6	45.4	45.7		
		46.9	47.5	265.8	261.2	16	55	89.8	95.0	43.7	44.0		
471	2.8	56.1	55.0	273.4	270.1	16	51	89.2	92.2	59.4	58.4	3.9	806
		57.7	57.7	271.5	268.3	17	1	87.3	90.4	57.8	57.7		
		59.3	59.5	269.6	266.6	17	11	85.3	88.6	56.2	55.9		
495	3.3	52.7	52.1	278.2	274.4	17	13	84.9	88.3	55.8	55.5	3.9	806
		54.3	53.9	276.1	272.5	17	23	82.8	86.5	54.2	53.8		
		55.9	55.6	274.1	270.7	17	33	80.8	84.6	52.7	52.0		
515	5.2	48.7	48.0	280.1	275.7	17	36	80.1	84.0	52.2	51.5	3.9	806
		50.3	49.8	278.0	273.8	17	46	78.0	82.1	50.6	49.7		
		51.9	51.6	275.9	272.0	17	56	75.7	80.1	49.0	48.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-50	LAT-45	LAT-50	LAT-45	HRS	MIN	LAT-50	LAT-45		
544	4.1	39.5	39.5	272.3	266.3	18	6	88.2	93.5	43.0	43.0	4.4	814
		41.1	41.3	270.4	264.7	18	16	86.2	91.8	41.4	41.3		
		42.7	43.0	268.5	263.1	18	26	84.1	90.1	39.8	39.5		
544	4.1	41.4	41.6	270.0	264.3	18	18	90.3	95.3	44.8	45.1	4.6	832
		43.0	43.4	268.1	262.8	18	28	88.4	93.7	43.2	43.3		
		44.6	45.1	266.3	261.3	18	38	86.4	92.1	41.6	41.6		
544	4.1	43.5	43.9	267.5	262.3	18	31	91.6	96.2	46.9	47.2	4.4	1592
		45.1	45.7	265.7	260.9	18	41	89.7	94.6	45.3	45.5		
		46.7	47.4	264.0	259.3	18	51	87.7	93.0	43.7	43.7		
579	3.8	44.0	43.4	280.3	275.2	18	59	82.5	87.1	47.4	47.0	4.2	854
		45.6	45.1	278.2	273.2	19	9	80.3	85.2	45.8	45.2		
		47.2	46.9	276.1	271.4	19	19	78.1	83.3	44.3	43.5		
586	4.1	42.3	42.4	271.8	266.3	19	25	90.5	95.4	45.7	46.0	4.5	879
		43.9	44.1	269.9	264.7	19	35	88.6	93.8	44.1	44.2		
		45.5	45.9	268.0	263.1	19	45	86.6	92.1	42.5	42.4		
586	4.1	44.2	44.5	269.5	264.4	19	37	91.9	96.4	47.6	47.9	5.3	161E
		45.8	46.2	267.6	262.8	19	47	90.0	94.8	46.0	46.2		
		47.4	48.0	265.8	261.3	19	57	88.1	93.2	44.4	44.4		
1431	4.3	38.7	38.6	274.2	267.9	19	47	86.2	91.7	42.2	42.1	4.5	879
		40.3	40.3	272.2	266.3	19	57	84.1	90.0	40.6	40.3		
		41.9	42.1	270.2	264.7	20	7	82.0	88.2	39.0	38.5		
1431	4.3	40.6	40.7	271.8	266.0	19	59	87.7	92.9	44.0	44.1	5.3	161E
		42.2	42.4	269.8	264.4	20	9	85.7	91.2	42.4	42.3		
		43.8	44.2	268.0	262.8	20	19	83.6	89.4	40.8	40.5		
594	2.5	56.3	56.1	274.4	271.1	20	15	88.2	91.1	59.4	59.4	5.5	1018
		57.9	57.9	272.4	269.3	20	25	86.2	89.4	57.8	57.7		
		59.5	59.6	270.5	267.5	20	35	84.2	87.6	56.2	55.9		
1439	3.1	39.5	40.0	266.6	260.6	20	25	92.1	97.4	42.9	43.3	5.2	6
		41.1	41.8	264.8	259.2	20	35	90.2	95.9	41.3	41.6		
		42.7	43.5	263.1	257.8	20	45	88.3	94.3	39.7	39.8		
628	2.4	46.0	46.5	266.2	261.4	20	50	93.0	97.3	49.3	49.8	5.5	1026
		47.6	48.3	264.4	259.9	21	0	91.2	95.7	47.7	48.0		
		49.2	50.0	262.6	258.4	21	10	89.3	94.1	46.1	46.3		
646	4.4	45.0	44.7	275.6	270.5	21	3	87.6	92.1	48.1	48.1	4.4	35
		46.6	46.5	273.5	268.8	21	13	85.6	90.4	46.5	46.3		
		48.2	48.3	271.5	267.1	21	23	83.6	88.6	44.9	44.6		
1457	4.3	52.1	51.7	276.9	273.0	21	22	83.0	86.5	55.5	55.0	5.1	1043
		53.7	53.5	274.8	271.2	21	32	81.0	84.6	53.9	53.2		
		55.3	55.2	272.9	269.4	21	42	78.8	82.7	52.3	51.5		
1457	4.3	54.7	54.5	273.6	270.1	21	38	85.5	88.6	58.2	57.9	4.2	71
		56.3	56.3	271.7	268.3	21	48	83.5	86.8	56.6	56.1		
		57.9	58.1	269.8	266.6	21	58	81.4	84.9	55.0	54.4		
687	2.8	45.9	45.7	274.5	269.6	22	2	88.9	93.2	49.3	49.4	4.7	1055
		47.5	47.5	272.5	267.9	22	12	87.0	91.5	47.7	47.6		
		49.1	49.2	270.5	266.2	22	22	84.9	89.8	46.1	45.8		
692	2.9	50.2	49.7	277.1	272.9	22	17	84.5	88.2	53.6	53.2	5.4	83
		51.8	51.5	275.0	271.1	22	27	82.4	86.4	52.0	51.5		
		53.4	53.3	273.0	269.3	22	37	80.3	84.5	50.4	49.7		
689	2.0	46.7	47.4	265.1	260.5	22	29	95.3	99.4	50.0	50.7	4.5	101
		48.3	49.1	263.4	259.0	22	39	93.5	97.8	48.4	48.9		
		49.9	50.8	261.6	257.5	22	49	91.6	96.3	46.8	47.2		
710	3.6	52.7	51.8	281.7	277.9	22	43	82.6	86.0	56.0	55.5	4.8	102
		54.3	53.6	279.6	276.0	22	53	80.5	84.1	54.4	53.7		
		55.9	55.4	277.5	274.1	23	3	78.4	82.2	52.8	52.0		
706	2.1	51.0	50.7	274.5	270.4	22	53	85.1	88.7	54.3	54.1	4.2	1085
		52.6	52.5	272.5	268.7	23	3	83.1	86.9	52.7	52.3		
		54.2	54.3	270.6	267.0	23	13	81.0	85.0	51.1	50.5		
751	4.4	38.7	38.7	272.8	266.6	23	18	85.9	91.5	42.2	42.1	4.5	101
		40.3	40.5	270.9	265.0	23	28	83.9	89.7	40.6	40.3		
		41.9	42.2	268.9	263.4	23	38	81.7	87.9	39.0	38.5		
736	4.7	51.9	51.5	275.9	271.9	23	34	85.5	88.9	55.2	54.9	4.3	140
		53.5	53.3	273.8	270.1	23	44	83.4	87.1	53.6	53.2		
		55.1	55.1	271.9	268.4	23	54	81.3	85.3	52.0	51.4		

CATNO	MAG	WEST STAR				AZ		LST		EAST STAR				MAG	CATNO
		% D.		LAT-40		LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40	LAT-45	LAT-40		
		LAT-45	LAT-40	LAT-45	LAT-40	LAT-45	LAT-40	LAT-45	LAT-40	LAT-45	LAT-40	LAT-45	LAT-40		
779	4.3	45.2	44.7	278.0	273.1	0	9	82.4	86.8	48.8	48.3	4.3	140		
		47.0	46.6	276.1	271.4	0	19	80.4	85.1	47.0	46.4				
		48.7	48.5	274.2	269.8	0	29	78.3	83.3	45.3	44.5				
779	4.3	52.2	52.4	270.5	266.6	0	49	88.7	92.1	56.2	56.2	3.3	186		
		54.0	54.3	268.7	265.1	0	59	86.9	90.5	54.4	54.3				
		55.8	56.2	267.0	263.7	1	9	85.1	88.9	52.6	52.4				
806	3.9	49.7	49.2	277.9	273.7	1	5	85.8	89.6	53.3	53.1	3.3	186		
		51.5	51.1	276.0	272.0	1	15	83.9	87.9	51.6	51.2				
		53.2	53.0	274.1	270.4	1	25	82.0	86.2	49.8	49.3				
806	3.9	52.2	51.9	275.2	271.3	1	19	85.9	89.3	55.9	55.7	3.0	204		
		53.9	53.8	273.4	269.7	1	29	84.1	87.7	54.2	53.8				
		55.7	55.7	271.5	268.1	1	39	82.1	86.0	52.4	51.9				
812	3.9	56.6	55.9	279.8	276.5	1	36	81.1	84.0	60.2	59.6	3.7	219		
		58.4	57.8	277.9	274.8	1	46	79.1	82.2	58.5	57.7				
		60.1	59.7	276.0	273.1	1	56	77.1	80.4	56.8	55.8				
1594	5.4	49.7	49.1	279.3	275.1	1	57	83.2	87.0	53.2	52.8	3.9	222		
		51.5	51.0	277.3	273.3	2	7	81.3	85.3	51.5	50.9				
		53.2	52.9	275.4	271.7	2	17	79.3	83.5	49.7	49.0				
1592	4.4	45.2	45.7	265.7	260.8	2	18	93.9	98.2	49.0	49.5	3.1	240		
		46.9	47.6	264.0	259.5	2	28	92.2	96.8	47.2	47.6				
		48.7	49.5	262.5	258.2	2	38	90.5	95.4	45.4	45.7				
838	5.4	53.5	54.0	265.3	261.7	2	33	95.7	98.9	57.0	57.6	2.9	273		
		55.2	55.9	263.7	260.3	2	43	94.0	97.5	55.2	55.7				
		57.0	57.8	262.0	258.9	2	53	92.3	96.0	53.5	53.8				
867	1.3	47.4	47.7	268.1	263.6	2	48	94.1	98.1	51.1	51.6	1.6	268		
		49.1	49.6	266.4	262.2	2	58	92.5	96.7	49.3	49.7				
		50.9	51.5	264.8	260.8	3	8	90.7	95.3	47.5	47.8				
867	1.3	49.7	50.2	265.9	261.8	3	1	96.5	100.2	53.1	53.8	2.4	283		
		51.4	52.1	264.3	260.4	3	11	94.9	98.8	51.3	51.9				
		53.2	54.0	262.7	259.0	3	21	93.2	97.4	49.6	50.0				
896	4.6	43.9	43.8	274.2	269.0	3	15	88.9	93.5	47.5	47.6	3.7	1183		
		45.7	45.7	272.3	267.4	3	25	87.1	92.0	45.7	45.7				
		47.5	47.6	270.5	265.9	3	35	85.2	90.4	43.9	43.7				
873	3.8	57.8	57.8	271.4	268.2	3	29	87.8	90.5	61.3	61.3	4.6	1212		
		59.5	59.7	269.6	266.7	3	39	85.9	88.9	59.6	59.4				
		61.3	61.6	267.8	265.1	3	49	84.1	87.2	57.8	57.4				
1621	5.3	55.7	55.1	278.2	274.8	3	41	85.6	88.6	59.2	59.0	4.6	1212		
		57.4	57.0	276.3	273.1	3	51	83.7	86.9	57.5	57.1				
		59.2	58.9	274.4	271.4	4	1	81.8	85.2	55.7	55.2				
14	5.2	46.2	45.6	279.5	274.7	3	54	81.8	86.0	49.8	49.3	4.5	288		
		48.0	47.5	277.5	272.9	4	4	79.7	84.3	48.1	47.4				
		49.7	49.4	275.5	271.3	4	14	77.7	82.4	46.4	45.5				
896	4.6	53.7	54.3	264.5	260.9	4	10	97.7	100.9	57.1	57.9	4.2	332		
		55.4	56.2	262.9	259.6	4	20	96.1	99.5	55.4	56.0				
		57.2	58.1	261.3	258.2	4	30	94.5	98.1	53.6	54.1				
1026	5.5	40.6	40.8	271.5	265.7	4	21	89.8	94.9	44.3	44.5	4.9	1217		
		42.4	42.7	269.7	264.2	4	31	88.0	93.4	42.5	42.6				
		44.2	44.6	268.0	262.9	4	41	86.1	91.9	40.8	40.7				
35	4.4	47.0	47.3	269.0	264.3	4	46	91.7	95.8	50.8	51.1	4.2	332		
		48.7	49.2	267.2	262.9	4	56	90.0	94.3	49.0	49.2				
		50.5	51.1	265.6	261.5	5	6	88.2	92.8	47.2	47.3				
14	5.2	57.1	57.5	267.9	264.7	4	56	91.2	94.0	60.7	60.9	5.2	1247		
		58.9	59.4	266.2	263.2	5	6	89.4	92.4	58.9	59.0				
		60.7	61.3	264.5	261.8	5	16	87.6	90.9	57.2	57.1				
1055	4.7	41.2	41.0	275.1	269.3	5	19	85.8	90.8	44.9	44.8	4.2	332		
		43.0	42.0	273.2	267.8	5	29	83.9	89.2	43.2	42.9				
		44.7	44.8	271.3	266.3	5	39	81.8	87.5	41.4	41.0				
71	4.2	50.1	49.5	279.7	275.6	5	36	83.9	87.6	53.6	53.3	5.2	1247		
		51.9	51.4	277.8	273.8	5	46	82.0	85.9	51.9	51.4				
		53.7	53.3	275.8	272.1	5	56	80.0	84.2	50.1	49.4				
1055	4.7	46.0	46.2	270.1	265.3	5	46	90.7	94.9	49.6	49.9	5.0	366		
		47.7	48.1	268.3	263.8	5	56	88.9	93.4	47.8	48.0				
		49.5	50.0	266.6	262.4	6	6	87.1	91.9	46.1	46.0				
61	5.4	54.5	54.8	268.5	265.0	6	1	92.8	95.8	58.3	58.6	5.3	399		
		56.3	56.7	266.8	263.5	6	11	91.0	94.3	56.5	56.7				
		58.1	58.6	265.1	262.1	6	21	89.3	92.8	54.7	54.8				
83	5.4	51.8	51.7	273.3	269.4	6	18	89.8	93.3	55.3	55.4	5.3	399		
		53.6	53.6	271.5	267.8	6	28	88.0	91.7	53.5	53.5				
		55.3	55.5	269.7	266.3	6	38	86.2	90.1	51.7	51.6				

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-45	Z. D. LAT-40	LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40	LAT-45	Z. D. LAT-40		
101	4.5	43.9	44.4	266.8	261.6	6	29	94.2	96.7	47.7	48.2	4.4	392
		45.7	46.3	265.1	260.3	6	39	92.5	97.3	45.9	46.3		
		47.4	48.2	263.5	259.0	6	49	90.8	95.9	44.1	44.4		
1085	4.2	51.9	51.8	273.5	269.6	6	58	88.5	92.0	55.4	55.4	4.5	421
		53.7	53.7	271.7	268.0	7	8	86.7	90.4	53.7	53.5		
		55.5	55.6	269.9	266.5	7	18	84.8	88.8	51.9	51.6		
102	4.8	58.1	58.1	271.3	268.2	7	12	88.0	90.7	61.7	61.7	4.9	1301
		59.9	60.0	269.5	266.7	7	22	86.2	89.1	60.0	55.8		
		61.6	62.0	267.8	265.1	7	32	84.3	87.4	58.2	57.8		
1085	4.2	57.1	57.3	268.3	265.1	7	27	93.5	96.2	60.8	61.2	3.2	453
		58.8	59.3	266.6	263.6	7	37	91.8	94.7	59.0	59.3		
		60.6	61.2	264.9	262.1	7	47	90.0	93.2	57.2	57.4		
140	4.3	53.3	53.3	272.7	268.9	7	49	89.6	92.9	56.9	57.0	3.2	453
		55.1	55.2	270.9	267.4	7	59	87.9	91.3	55.1	55.1		
		56.9	57.1	269.1	265.9	8	9	86.0	89.8	53.3	53.2		
140	4.3	55.3	55.4	270.7	267.2	8	0	92.7	95.7	58.7	59.1	2.8	471
		57.1	57.3	268.9	265.7	8	10	90.9	94.2	56.9	57.2		
		58.8	59.2	267.2	264.2	8	20	89.2	92.6	55.2	55.3		
215	2.8	40.5	41.0	267.2	261.4	9	5	95.6	100.7	43.8	44.5	5.0	1331
		42.2	42.9	265.5	260.1	9	15	94.0	99.4	42.1	42.7		
		44.0	44.7	264.0	258.9	9	25	92.3	98.1	40.3	40.8		
204	3.0	52.6	52.1	277.6	273.8	9	17	82.1	85.5	56.2	55.7	4.8	1345
		54.4	54.0	275.7	272.1	9	27	80.2	83.7	54.5	53.8		
		56.1	56.0	273.8	270.5	9	37	78.1	81.9	52.7	51.9		
222	3.9	50.6	50.0	279.7	275.6	9	29	79.8	83.4	54.1	53.4	4.8	1345
		52.4	51.9	277.7	273.9	9	39	77.7	81.6	52.4	51.5		
		54.1	53.8	275.8	272.2	9	49	75.6	79.7	50.7	49.6		
222	3.9	53.2	52.8	276.8	273.0	9	44	82.8	86.1	57.1	56.6	5.1	510
		55.0	54.7	274.9	271.3	9	54	80.9	84.3	55.4	54.7		
		56.8	56.7	273.0	269.7	10	4	78.9	82.6	53.6	52.8		
240	3.1	47.7	48.1	267.3	262.8	10	14	95.1	99.1	51.4	52.0	5.0	532
		49.5	50.0	265.6	261.4	10	24	93.5	97.7	49.6	50.1		
		51.2	51.9	264.0	260.0	10	34	91.8	96.3	47.8	48.2		
268	1.6	43.5	43.5	273.4	268.1	10	25	86.4	91.1	47.3	47.2	3.5	519
		45.3	45.4	271.5	266.6	10	35	84.5	89.5	45.5	45.2		
		47.1	47.3	269.7	265.1	10	45	82.6	87.8	43.7	43.3		
283	2.4	41.1	40.9	275.4	269.6	10	38	87.9	89.0	45.0	44.7	3.5	519
		42.9	42.8	273.5	268.1	10	48	82.0	87.3	43.2	42.7		
		44.7	44.8	271.6	266.6	10	58	79.9	85.6	41.5	40.8		
273	2.0	49.0	49.0	272.1	267.8	10	57	89.7	93.5	52.7	52.8	3.4	556
		50.8	50.9	270.3	266.2	11	7	87.9	92.0	50.9	50.9		
		52.6	52.9	268.6	264.8	11	17	86.0	90.4	49.1	49.0		
268	1.6	51.1	51.7	265.8	261.8	11	8	96.2	99.7	54.8	55.5	3.8	579
		52.9	53.6	264.2	260.5	11	18	94.6	98.3	53.0	53.6		
		54.6	55.4	262.5	259.1	11	28	92.9	96.9	51.2	51.7		
283	2.4	48.7	49.1	267.6	263.2	11	21	94.1	97.9	52.5	53.0	3.8	579
		50.5	51.0	265.9	261.8	11	31	92.4	96.4	50.7	51.1		
		52.3	52.9	264.2	260.5	11	41	90.7	95.0	48.9	49.2		
288	4.5	53.1	52.9	274.7	270.9	11	31	85.2	88.4	56.9	56.7	5.0	1413
		54.9	54.8	272.8	269.3	11	41	83.3	86.8	55.2	54.7		
		56.6	56.7	271.0	267.7	11	51	81.3	85.1	53.4	52.8		
288	4.5	55.2	55.2	272.4	269.0	11	43	87.4	90.4	58.9	58.8	2.9	597
		57.0	57.1	270.6	267.4	11	53	85.6	88.8	57.1	56.9		
		58.8	59.0	268.9	265.9	12	3	83.7	87.2	55.4	55.0		
308	2.9	50.3	50.1	274.3	270.1	11	56	86.6	90.3	53.8	53.7	2.5	594
		52.1	52.0	272.4	268.5	12	6	84.8	88.7	52.1	51.8		
		53.9	54.0	270.6	267.0	12	16	82.8	87.0	50.3	49.9		
332	4.2	44.2	44.0	275.0	269.9	12	16	86.1	90.7	47.8	47.7	3.0	592
		45.9	45.9	273.2	268.3	12	26	84.2	89.1	46.1	45.8		
		47.7	47.8	271.3	266.8	12	36	82.2	87.4	44.3	43.9		
332	4.2	46.8	46.8	272.2	267.5	12	31	89.3	93.5	50.4	50.5	1.2	616
		48.6	48.7	270.4	266.0	12	41	87.5	91.9	48.6	48.6		
		50.4	50.6	268.7	264.6	12	51	85.6	90.3	46.8	46.7		
1243	4.9	44.2	43.7	278.2	273.0	12	41	85.1	89.7	47.7	47.5	3.1	607
		46.0	45.6	276.2	271.4	12	51	83.1	88.0	45.9	45.5		
		47.7	47.6	274.3	269.7	13	1	81.1	86.3	44.2	43.6		
332	4.2	51.8	52.2	267.3	263.4	12	59	92.2	95.6	55.6	55.9	3.4	644
		53.5	54.1	265.6	262.0	13	9	90.5	94.1	53.8	54.0		
		55.3	56.0	264.0	260.6	13	19	88.7	92.6	52.1	52.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-45	Z. D. LAT-40	LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40	LAT-45	Z. D. LAT-40		
1243	4.9	49.7	49.7	272.2	268.0	13	12	90.0	93.7	53.3	53.5	3.4	644
		51.4	51.6	270.4	266.5	13	22	88.2	92.2	51.5	51.5		
		53.2	53.5	268.7	265.0	13	32	86.3	90.6	49.8	49.6		
366	5.1	47.6	47.1	271.9	267.3	13	26	87.5	91.5	50.8	50.8	3.4	644
		48.8	49.0	270.1	265.8	13	36	85.6	89.9	49.1	48.9		
		50.6	50.9	268.4	264.3	13	46	83.7	88.3	47.3	47.0		
392	4.4	41.4	41.5	271.9	266.3	13	48	89.7	94.7	44.9	45.1	4.4	646
		43.2	43.4	270.1	264.8	13	58	87.9	93.2	43.2	43.2		
		44.9	45.3	268.4	263.4	14	8	86.0	91.7	41.4	41.3		
366	5.0	52.9	53.4	266.2	262.4	13	59	93.7	97.0	56.4	56.8	2.9	692
		54.6	55.3	264.5	261.0	14	9	92.0	95.5	54.6	54.9		
		56.4	57.1	262.9	259.6	14	19	90.2	94.0	52.8	53.0		
366	5.0	55.7	55.6	264.2	260.7	14	11	97.1	100.0	58.5	59.2	2.1	706
		56.7	57.5	262.6	259.4	14	21	95.4	98.6	56.7	57.4		
		58.5	59.4	260.9	258.7	14	31	93.7	97.2	55.0	55.5		
419	5.1	45.7	45.6	274.2	269.3	14	38	86.8	91.1	49.5	49.4	2.9	692
		47.5	47.5	272.3	267.7	14	48	84.9	89.5	47.7	47.5		
		49.3	49.4	270.5	266.2	14	58	83.0	87.8	46.0	45.6		
434	3.7	40.1	40.2	271.8	265.9	14	49	88.3	93.6	43.6	43.7	2.8	667
		41.9	42.1	270.0	264.5	14	59	86.5	92.1	41.9	41.8		
		43.7	44.0	268.3	263.1	15	9	84.6	90.5	40.1	39.9		
1305	5.5	42.1	41.6	279.2	273.7	14	59	82.8	87.7	45.8	45.4	2.9	692
		43.9	43.5	277.2	272.0	15	9	80.8	86.0	44.0	43.5		
		45.7	45.4	275.2	270.3	15	19	78.7	84.2	42.3	41.5		
1305	5.5	44.2	43.9	276.8	271.6	15	11	86.7	91.2	47.9	47.8	2.1	706
		46.0	45.8	274.8	270.0	15	21	84.8	89.6	46.2	45.9		
		47.8	47.7	272.9	268.4	15	31	82.8	88.0	44.4	44.0		
421	4.5	55.4	55.4	271.5	268.1	15	23	87.6	90.6	59.0	58.9	5.1	1517
		57.1	57.3	269.8	266.5	15	33	85.8	89.0	57.2	57.0		
		58.9	59.2	268.0	265.0	15	43	83.9	87.4	55.5	55.1		
1305	5.5	48.3	48.3	272.4	267.9	15	34	88.6	92.5	52.0	52.1	4.7	736
		50.1	50.2	270.6	266.4	15	44	86.8	91.0	50.3	50.2		
		51.8	52.1	268.8	264.9	15	54	84.9	89.4	48.5	48.3		
1301	4.9	56.4	55.8	277.7	274.3	15	45	82.0	84.9	60.0	59.5	5.1	1522
		58.1	57.8	275.8	272.7	15	55	80.1	83.2	58.3	57.6		
		59.9	59.7	273.9	271.0	16	5	78.1	81.4	56.6	55.7		
1300	5.2	58.0	57.5	277.8	274.7	16	1	82.8	85.5	61.8	61.3	3.7	762
		59.8	59.4	275.0	273.0	16	11	80.9	83.8	60.0	59.4		
		61.5	61.3	274.1	271.3	16	21	78.9	82.0	58.3	57.4		
457	2.8	56.2	55.6	279.2	275.8	16	12	80.7	83.6	59.8	59.2	3.3	762
		58.0	57.5	277.2	274.1	16	22	78.7	81.8	58.1	57.3		
		59.7	59.4	275.4	272.4	16	32	76.7	80.0	56.4	55.4		
471	2.8	55.9	56.1	270.1	266.7	16	51	92.2	95.1	59.4	59.7	3.9	806
		57.7	58.0	268.3	265.2	17	1	90.4	93.6	57.7	57.8		
		59.5	59.9	266.6	263.7	17	11	88.6	92.0	55.9	55.9		
1305	4.9	53.7	52.9	280.8	277.1	17	3	81.6	84.9	57.1	56.5	4.2	1552
		55.4	54.8	278.8	275.3	17	13	79.7	83.1	55.3	54.6		
		57.2	56.7	276.9	273.6	17	23	77.6	81.3	53.6	52.7		
506	4.4	41.5	41.9	268.3	262.7	17	13	94.1	95.0	45.1	45.7	4.7	1550
		43.3	43.8	266.6	261.3	17	23	92.4	97.7	43.4	43.8		
		45.0	45.7	264.9	260.0	17	33	90.7	96.3	41.6	41.9		
1345	4.9	57.5	57.1	276.5	273.3	17	25	84.3	87.1	61.2	60.8	3.0	819
		59.3	59.0	274.6	271.6	17	35	82.4	85.4	59.4	58.9		
		61.0	60.9	272.8	270.0	17	45	80.5	83.7	57.7	57.0		
510	5.1	54.1	53.3	280.6	277.0	17	36	81.4	84.5	57.7	57.4	3.8	812
		55.8	55.2	278.6	275.2	17	46	79.4	82.8	55.9	55.2		
		57.5	57.1	276.7	273.5	17	56	77.4	81.0	54.2	53.3		
1376	5.4	45.6	45.1	278.7	273.8	17	48	81.7	86.0	49.4	48.9	3.9	806
		47.4	47.0	276.7	272.1	17	58	79.7	84.2	47.6	46.9		
		49.2	48.9	274.8	270.4	18	8	77.6	82.4	45.9	45.0		
544	4.1	39.5	40.1	266.3	260.3	18	6	93.5	98.8	43.0	43.6	4.4	814
		41.3	42.0	264.7	259.1	18	16	91.8	97.5	41.3	41.7		
		43.0	43.9	263.1	257.9	18	26	90.1	96.1	39.5	39.8		
1389	5.3	40.9	41.4	267.4	261.6	18	22	94.7	99.7	44.4	45.0	4.6	832
		42.7	43.3	265.7	260.4	18	32	93.1	98.4	42.6	43.1		
		44.4	45.1	264.1	259.1	18	42	91.4	97.1	40.9	41.2		
548	2.9	56.4	55.5	281.5	278.1	18	42	82.3	85.2	59.7	59.2	3.5	866
		58.1	57.4	279.5	276.3	18	52	80.4	83.5	58.0	57.3		
		59.8	59.3	277.6	274.6	19	2	78.4	81.7	56.3	55.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-45	LAT-40	LAT-45	LAT-40	HRS	MIN	LAT-45	LAT-40		
579	3.8	43.4	43.1	275.2	269.8	18	59	87.1	91.8	47.0	46.9	4.2	854
		45.1	45.1	273.2	268.3	19	9	85.2	90.2	45.2	45.0		
		46.9	47.0	271.4	266.7	19	19	83.3	88.6	43.5	43.1		
559	4.7	56.5	56.2	275.1	271.8	19	19	86.7	89.6	60.3	60.1	5.3	1621
		58.3	58.2	273.2	270.2	19	29	84.9	88.0	58.5	58.2		
		60.1	60.1	271.4	268.6	19	39	83.0	86.3	56.8	56.3		
1413	5.0	54.0	53.5	278.0	274.4	19	34	84.0	87.1	57.7	57.3	5.3	1621
		55.8	55.4	276.1	272.7	19	44	82.0	85.5	55.9	55.4		
		57.5	57.3	274.2	271.0	19	54	80.1	83.7	54.2	53.4		
1431	4.3	38.4	38.8	268.1	261.9	19	46	91.9	97.4	42.2	42.7	4.5	879
		40.2	40.7	266.4	260.6	19	56	90.2	96.0	40.5	40.8		
		41.9	42.6	264.8	259.4	20	6	88.4	94.6	38.7	38.8		
597	2.9	53.9	53.3	278.0	274.3	19	57	82.5	85.7	57.7	57.2	4.6	905
		55.6	55.2	276.0	272.6	20	7	80.5	83.9	55.9	55.3		
		57.4	57.1	274.2	271.0	20	17	78.5	82.2	54.2	53.4		
592	3.9	52.7	53.0	268.9	265.1	20	7	91.3	94.6	56.4	56.6	5.2	14
		54.5	54.9	267.1	263.6	20	17	89.6	93.1	54.6	54.7		
		56.3	56.8	265.5	262.2	20	27	87.8	91.6	52.9	52.8		
607	3.1	50.9	50.9	271.6	267.5	20	17	89.6	93.1	54.6	54.7	5.2	14
		52.6	52.8	269.8	266.0	20	27	87.8	91.6	52.9	52.8		
		54.4	54.7	268.0	264.5	20	37	85.9	90.0	51.1	50.9		
646	4.4	38.7	38.4	277.0	270.7	20	29	84.2	89.7	42.5	42.2	4.6	896
		40.5	40.3	275.0	269.1	20	39	82.2	88.0	40.7	40.3		
		42.3	42.2	273.1	267.6	20	49	80.1	86.3	39.0	38.4		
644	3.4	45.8	45.3	278.0	273.1	20	47	84.0	88.3	49.3	49.0	5.2	14
		47.6	47.2	276.0	271.4	20	57	82.1	86.7	47.6	47.1		
		49.3	49.1	274.1	269.8	21	7	80.0	84.9	45.8	45.2		
646	4.4	44.6	44.7	270.7	265.6	21	2	92.3	96.7	48.3	48.7	4.4	35
		46.3	46.6	268.9	264.2	21	12	90.6	95.3	46.5	46.8		
		48.1	48.5	267.2	262.8	21	22	88.8	93.8	44.7	44.8		
679	3.1	41.0	40.9	273.4	267.6	21	22	88.8	93.8	44.7	44.8	4.4	35
		42.7	42.8	271.6	266.1	21	32	87.0	92.3	43.0	42.9		
		44.5	44.7	269.8	264.7	21	42	85.1	90.8	41.2	41.0		
1457	4.3	54.4	54.5	270.3	266.7	21	37	88.8	91.9	58.1	58.1	4.2	71
		56.1	56.4	268.5	265.2	21	47	87.0	90.3	56.3	56.2		
		57.9	58.3	266.8	263.7	21	57	85.1	88.7	54.6	54.3		
679	3.1	47.0	47.4	267.3	262.7	21	56	94.2	98.3	50.4	51.0	4.7	1055
		48.7	49.3	265.7	261.4	22	6	92.6	96.9	48.6	49.1		
		50.5	51.2	264.0	260.0	22	16	90.8	95.5	46.9	47.2		
1487	3.3	43.9	43.6	276.5	271.3	22	7	84.4	89.0	47.7	47.4	5.4	61
		45.7	45.5	274.5	269.6	22	17	82.5	87.3	46.0	45.5		
		47.4	47.4	272.7	268.1	22	27	80.4	85.6	44.2	43.6		
692	2.9	49.7	49.7	272.9	268.7	22	17	88.2	91.9	53.2	53.2	5.4	83
		51.5	51.6	271.1	267.1	22	27	86.4	90.4	51.5	51.3		
		53.3	53.5	269.3	265.6	22	37	84.5	88.7	49.7	49.4		
692	2.9	53.3	53.5	269.3	265.6	22	37	91.5	94.8	56.9	57.2	4.2	1085
		55.0	55.4	267.6	264.1	22	47	89.8	93.2	55.1	55.3		
		56.8	57.3	265.9	262.7	22	57	88.0	91.7	53.4	53.3		
736	4.7	43.8	43.1	280.5	275.2	22	59	81.9	86.5	47.4	46.9	5.4	83
		45.5	45.0	278.4	273.5	23	0	79.9	84.8	45.7	45.0		
		47.3	46.9	276.4	271.8	23	10	77.8	83.0	44.0	43.1		
692	2.9	57.3	57.9	265.4	262.2	23	0	94.8	97.6	60.9	61.5	4.3	140
		59.1	59.8	263.7	260.8	23	10	93.1	96.1	59.2	59.6		
		60.9	61.7	262.1	259.4	23	20	91.4	94.6	57.4	57.7		
736	4.7	47.3	46.9	276.4	271.8	23	10	85.6	89.6	51.1	50.8	4.2	1085
		49.0	48.8	274.5	270.2	23	20	83.7	88.0	49.3	48.9		
		50.8	50.8	272.6	268.6	23	30	81.7	86.3	47.5	47.0		
736	4.7	51.3	51.3	272.1	268.1	23	33	89.1	92.6	55.1	55.2	4.3	140
		53.1	53.2	270.3	266.6	23	43	87.3	91.0	53.3	53.3		
		54.9	55.2	268.5	265.1	23	53	85.5	89.4	51.6	51.3		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-40	LAT-35	LAT-40	LAT-35			LAT-40	LAT-35	LAT-40	LAT-35		
779	4.3	44.5	44.5	273.2	268.1	0	8	87.0	91.4	48.5	48.4	4.3	140
		46.4	46.5	271.5	266.8	0	18	85.2	90.0	46.6	46.4		
		48.4	48.6	269.9	265.5	0	28	83.4	88.5	44.7	44.3		
762	3.3	57.5	56.9	277.9	274.7	0	19	84.9	87.7	61.4	61.1	4.0	172
		59.4	59.0	276.2	273.2	0	29	83.2	86.2	59.5	59.1		
		61.3	61.0	274.5	271.7	0	39	81.4	84.6	57.6	57.0		
1552	4.2	52.4	51.8	279.0	275.1	0	45	80.4	83.7	56.5	55.8	4.0	172
		54.3	53.8	277.2	273.6	0	55	78.5	82.1	54.6	53.8		
		56.2	55.9	275.4	272.1	1	5	76.6	80.4	52.8	51.8		
806	3.9	49.2	49.1	273.7	269.4	1	5	89.6	93.3	53.1	53.2	3.3	186
		51.1	51.1	272.0	268.0	1	15	87.9	91.9	51.2	51.2		
		53.0	53.2	270.4	266.6	1	25	86.2	90.5	49.3	49.2		
812	3.8	52.1	51.4	280.1	276.2	1	16	82.8	86.2	56.1	55.6	3.3	1144
		54.0	53.5	278.3	274.6	1	26	81.0	84.7	54.2	53.5		
		55.9	55.5	276.5	273.1	1	36	79.2	83.0	52.3	51.5		
806	3.9	54.0	54.2	269.6	265.9	1	30	91.4	94.5	58.0	58.2	3.9	222
		55.9	56.2	268.0	264.6	1	40	89.8	93.1	56.1	56.2		
		57.8	58.3	266.4	263.3	1	50	88.1	91.8	54.1	54.1		
819	3.0	56.4	56.0	276.8	273.5	1	44	83.6	86.5	60.3	59.8	3.8	226
		58.4	58.0	275.1	272.0	1	54	81.9	85.0	58.4	57.8		
		60.3	60.1	273.4	270.5	2	4	80.1	83.4	56.5	55.8		
849	5.3	47.1	46.6	278.4	273.7	1	57	80.6	84.6	51.1	50.4	2.7	207
		49.0	48.6	276.6	272.2	2	7	78.7	83.0	49.2	48.4		
		50.9	50.7	274.8	270.7	2	17	76.7	81.3	47.3	46.4		
873	3.8	44.6	44.0	280.1	275.0	2	20	83.0	87.4	48.4	48.0	3.9	222
		46.5	46.0	278.2	273.5	2	30	81.1	85.9	46.5	46.0		
		48.4	48.0	276.4	271.9	2	40	79.2	84.3	44.6	43.9		
866	3.5	56.1	55.6	277.6	274.2	2	49	85.3	88.2	59.8	59.6	4.1	271
		58.0	57.7	275.8	272.7	2	59	83.6	86.8	57.9	57.5		
		59.9	59.7	274.1	271.2	3	9	81.8	85.2	56.0	55.5		
896	4.6	43.8	44.1	269.0	263.8	3	15	93.5	98.0	47.6	48.1	3.7	1183
		45.7	46.2	267.4	262.6	3	25	92.0	96.8	45.7	46.0		
		47.6	48.2	265.9	261.5	3	35	90.4	95.6	43.7	44.0		
873	3.8	57.6	57.9	268.4	265.2	3	28	90.7	93.4	51.5	51.6	4.6	1212
		59.5	59.9	266.8	263.9	3	38	89.0	92.0	59.5	59.6		
		61.4	61.9	265.3	262.6	3	48	87.4	90.6	57.6	57.5		
905	4.6	53.3	52.7	277.9	274.2	3	48	81.4	84.6	57.3	56.7	5.1	1202
		55.2	54.8	276.1	272.6	3	58	79.6	83.0	55.4	54.7		
		57.1	56.8	274.4	271.2	4	8	77.7	81.4	53.5	52.6		
35	4.4	38.7	38.8	271.2	265.0	4	1	91.6	97.0	42.4	42.8	2.4	283
		40.6	40.9	269.6	263.8	4	11	90.0	95.8	40.5	40.7		
		42.5	42.9	268.0	262.6	4	21	88.3	94.6	38.6	38.7		
22	2.2	51.6	51.0	278.5	274.5	4	21	81.5	85.0	55.5	54.9	5.1	311
		53.5	53.1	276.7	273.0	4	31	79.7	83.4	53.6	52.9		
		55.4	55.1	275.0	271.5	4	41	77.8	81.7	51.7	50.8		
61	5.4	38.8	38.2	279.1	272.9	4	37	84.1	89.5	42.6	42.3	3.5	1204
		40.7	40.3	277.2	271.4	4	47	82.2	88.0	40.7	40.3		
		42.6	42.3	275.4	269.9	4	57	80.2	86.5	38.8	38.2		
61	5.4	40.7	40.3	277.2	271.4	4	47	84.9	90.0	44.5	44.2	2.9	308
		42.6	42.3	275.4	269.9	4	57	83.0	88.5	42.6	42.2		
		44.5	44.4	273.6	268.5	5	7	81.1	87.0	40.7	40.1		
1018	5.5	56.2	56.4	268.7	265.4	5	1	93.2	96.1	60.0	60.4	5.2	1247
		58.1	58.5	267.2	264.1	5	11	91.6	94.7	58.0	58.3		
		60.0	60.5	265.6	262.8	5	21	90.1	93.4	56.1	56.3		
1055	4.7	41.0	41.3	269.3	263.6	5	19	90.8	95.8	44.8	45.1	4.2	332
		42.9	43.3	267.8	262.5	5	29	89.2	94.6	42.9	43.0		
		44.8	45.4	266.3	261.3	5	39	87.5	93.3	41.0	41.0		
59	3.7	55.2	54.6	278.3	274.8	5	34	82.6	85.6	59.1	58.5	5.0	364
		57.1	56.7	276.5	273.3	5	44	80.8	84.1	57.2	56.5		
		59.0	58.7	274.8	271.8	5	54	79.0	82.5	55.3	54.5		
1055	4.7	46.0	46.6	265.4	260.7	5	45	95.1	99.2	50.1	50.7	5.0	366
		47.9	48.6	264.0	259.5	5	55	93.6	98.0	48.1	48.6		
		49.8	50.6	262.6	258.4	6	5	92.1	96.8	46.2	46.6		
102	4.8	44.6	43.9	280.5	275.4	6	1	83.3	87.7	48.5	48.1	5.2	1247
		46.5	45.9	278.6	273.8	6	11	81.4	86.2	46.6	46.1		
		48.4	48.0	276.7	272.3	6	21	79.5	84.6	44.7	44.0		
102	4.8	47.2	46.8	277.8	273.2	6	15	82.4	86.5	51.2	50.7	5.2	373
		49.1	48.8	276.0	271.7	6	25	80.6	84.9	49.3	48.7		
		51.0	50.9	274.3	270.2	6	35	78.7	83.3	47.4	46.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-40	LAT-35	LAT-40	LAT-35	HRS	MIN	LAT-40	LAT-35	LAT-40	LAT-35		
1085	4.2	47.8	47.7	273.0	268.5	6	37	90.3	94.2	51.8	52.0	5.3	399
		49.7	49.8	271.4	267.1	6	47	88.7	92.9	49.8	49.9		
		51.6	51.8	269.7	265.8	6	57	87.0	91.5	47.9	47.9		
1085	4.2	51.6	51.8	269.7	265.8	6	57	92.1	95.5	55.6	56.0	4.5	421
		53.5	53.8	268.2	264.5	7	7	90.5	94.2	53.7	53.9		
		55.4	55.9	266.6	263.2	7	17	88.9	92.9	51.8	51.9		
140	4.3	47.5	47.4	273.9	269.3	7	19	88.6	92.6	51.4	51.5	4.5	421
		49.4	49.4	272.2	267.9	7	29	86.9	91.2	49.5	49.4		
		51.4	51.5	270.6	266.6	7	39	85.2	89.8	47.6	47.4		
1100	5.3	56.1	55.8	275.1	271.8	7	36	87.5	90.4	59.9	59.9	5.2	1309
		58.1	57.9	273.4	270.3	7	46	85.8	89.0	58.0	57.8		
		60.0	59.9	271.8	268.9	7	56	84.1	87.5	56.1	55.8		
140	4.3	53.3	53.5	268.9	265.2	7	49	92.9	96.1	57.0	57.4	3.2	453
		55.2	55.6	267.4	263.9	7	59	91.3	94.8	55.1	55.3		
		57.1	57.6	265.9	262.7	8	9	89.8	93.5	53.2	53.3		
140	4.3	55.4	55.8	267.2	263.8	8	0	95.7	98.6	59.1	59.7	2.8	471
		57.3	57.8	265.7	262.5	8	10	94.2	97.4	57.2	57.7		
		59.2	59.8	264.2	261.3	8	20	92.6	96.1	55.3	55.6		
204	3.0	51.9	51.8	274.0	270.0	9	16	85.6	89.0	55.9	55.7	4.8	1345
		53.9	53.8	272.3	268.6	9	26	83.9	87.6	54.0	53.6		
		55.8	55.9	270.6	267.2	9	36	82.1	86.0	52.1	51.6		
222	3.9	49.8	49.4	275.8	271.5	9	28	83.6	87.3	53.6	53.2	4.8	1345
		51.7	51.5	274.0	270.1	9	38	81.8	85.7	51.7	51.1		
		53.6	53.5	272.3	268.6	9	48	79.9	84.1	49.8	49.1		
222	3.9	52.8	52.7	273.0	269.2	9	44	86.1	89.4	56.6	56.4	5.1	510
		54.7	54.8	271.3	267.8	9	54	84.3	87.9	54.7	54.4		
		56.7	56.9	269.7	266.4	10	4	82.6	86.4	52.8	52.3		
270	3.1	40.7	40.2	279.6	273.8	10	1	82.9	88.0	44.6	44.2	3.3	495
		42.6	42.2	277.7	272.2	10	11	81.1	86.5	42.7	42.1		
		44.5	44.3	275.8	270.7	10	21	79.1	84.9	40.8	40.1		
268	1.6	43.3	43.7	268.3	263.0	10	24	91.2	95.8	47.3	47.7	3.5	519
		45.2	45.7	266.7	261.8	10	34	89.6	94.5	45.4	45.6		
		47.1	47.7	265.3	260.7	10	44	88.0	93.2	43.5	43.6		
283	2.4	40.7	41.0	269.8	264.0	10	37	89.1	94.2	44.9	45.0	3.5	519
		42.7	43.0	268.2	262.8	10	47	87.5	92.8	42.9	43.0		
		44.6	45.1	266.7	261.7	10	57	85.7	91.5	41.0	40.9		
273	2.0	47.3	47.6	269.2	264.6	10	48	93.2	97.2	51.0	51.4	5.4	1385
		49.2	49.6	267.6	263.3	10	58	91.7	96.0	49.1	49.4		
		51.1	51.6	266.1	262.1	11	8	90.1	94.7	47.1	47.4		
1210	4.9	38.8	39.1	269.6	263.4	11	3	92.0	97.4	42.6	43.1	5.0	532
		40.7	41.1	268.0	262.3	11	13	90.4	96.2	40.7	41.0		
		42.6	43.2	266.5	261.2	11	23	88.8	95.0	38.8	39.0		
288	4.5	50.0	49.9	273.4	269.2	11	16	86.1	89.7	53.8	53.6	4.7	559
		51.9	51.9	271.7	267.8	11	26	84.3	88.3	51.9	51.6		
		53.8	54.0	270.1	266.4	11	36	82.6	86.8	50.0	49.5		
288	4.5	52.9	52.9	270.9	267.1	11	31	88.4	91.7	56.7	56.7	5.0	1413
		54.8	55.0	269.3	265.8	11	41	86.8	90.3	54.7	54.6		
		56.7	57.0	267.7	264.4	11	51	85.1	88.9	52.8	52.6		
288	4.5	55.0	55.2	269.1	265.6	11	42	90.6	93.6	59.0	59.2	2.9	597
		56.9	57.2	267.5	264.3	11	52	89.0	92.2	57.1	57.1		
		58.8	59.3	266.0	263.0	12	2	87.3	90.8	55.1	55.1		
308	2.9	49.9	50.1	270.3	266.1	11	55	90.5	94.1	53.9	54.1	2.5	594
		51.9	52.1	268.7	264.8	12	5	88.8	92.8	52.0	52.1		
		53.8	54.2	267.1	263.5	12	15	87.2	91.4	50.1	50.0		
332	4.2	43.8	44.0	270.0	264.8	12	15	90.8	95.3	47.9	48.2	3.0	592
		45.7	46.0	268.5	263.6	12	25	89.2	94.0	46.0	46.1		
		47.6	48.1	266.9	262.4	12	35	87.6	92.7	44.1	44.1		
332	4.2	46.6	47.0	267.7	263.0	12	30	93.6	97.6	50.7	51.2	1.2	616
		48.5	49.1	266.2	261.8	12	40	92.1	96.4	48.8	49.1		
		50.5	51.1	264.7	260.6	12	50	90.5	95.2	46.9	47.1		
1243	4.9	43.7	43.7	273.0	267.8	12	41	89.7	94.2	47.5	47.6	3.1	607
		45.6	45.7	271.4	266.5	12	51	88.0	92.9	45.5	45.6		
		47.6	47.8	269.7	265.2	13	1	86.3	91.6	43.6	43.5		
332	4.2	52.0	52.7	263.5	259.7	12	58	95.8	99.1	56.1	56.8	3.4	644
		53.9	54.7	262.1	258.6	13	8	94.3	97.8	54.2	54.8		
		55.8	56.7	260.7	257.4	13	18	92.8	96.6	52.3	52.7		
1243	4.9	49.7	50.0	268.0	263.8	13	12	93.7	97.3	53.5	53.9	3.4	644
		51.6	52.1	266.5	262.6	13	22	92.2	96.1	51.5	51.9		
		53.5	54.1	265.0	261.3	13	32	90.6	94.8	49.6	49.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-40	LAT-35	LAT-40	LAT-35	HRS	MIN	LAT-40	LAT-35		
366	5.0	46.9	47.3	267.4	262.8	13	25	91.7	95.7	51.0	51.3	3.4	644
		48.8	49.3	265.9	261.6	13	35	90.1	94.4	49.1	49.3		
		50.7	51.4	264.4	260.4	13	45	88.5	93.1	47.1	47.2		
392	4.4	41.3	41.9	266.4	260.8	13	47	94.8	99.7	45.3	45.9	4.4	646
		43.2	43.9	265.0	259.7	13	57	93.3	98.6	43.4	43.9		
		45.1	45.9	263.6	258.7	14	7	91.8	97.4	41.5	41.9		
419	5.1	39.3	39.1	274.8	268.7	14	5	85.1	90.4	43.3	43.1	3.4	644
		41.2	41.2	273.1	267.3	14	15	83.2	89.9	41.4	41.1		
		43.1	43.2	271.4	266.0	14	25	81.3	87.4	39.5	39.0		
389	4.1	55.5	55.1	276.9	273.5	14	20	83.4	86.4	59.4	58.9	4.7	696
		57.4	57.1	275.2	272.0	14	30	81.6	84.8	57.5	56.9		
		59.3	59.2	273.5	270.5	14	40	79.8	83.3	55.6	54.8		
421	4.5	46.0	45.7	276.3	271.4	14	34	84.6	88.8	49.9	49.6	4.0	682
		47.9	47.7	274.5	270.0	14	44	82.8	87.4	48.0	47.5		
		49.8	49.8	272.8	268.6	14	54	81.0	85.8	46.1	45.5		
419	5.1	46.9	47.3	268.2	263.5	14	45	94.5	99.5	50.6	51.2	3.3	1487
		48.8	49.3	266.6	262.3	14	55	93.0	97.3	48.7	49.1		
		50.7	51.3	265.2	261.1	15	5	91.4	96.1	46.8	47.1		
421	4.5	50.2	50.2	272.5	268.3	14	56	88.4	92.0	54.0	54.0	3.6	710
		52.1	52.2	270.8	266.9	15	6	86.7	90.7	52.1	52.0		
		54.0	54.3	269.2	265.6	15	16	85.0	89.2	50.2	49.9		
1325	5.5	43.9	44.0	271.6	266.4	15	11	91.2	95.7	47.8	48.1	2.1	706
		45.8	46.0	270.0	265.1	15	21	89.6	94.4	45.9	46.1		
		47.7	48.0	268.4	263.9	15	31	88.0	93.1	44.0	44.0		
421	4.5	55.2	55.5	268.2	264.8	15	22	90.8	93.8	59.1	59.3	5.1	1517
		57.1	57.5	266.7	263.5	15	32	89.2	92.4	57.2	57.3		
		59.0	59.6	265.2	262.2	15	42	87.5	91.0	55.3	55.2		
431	4.1	57.7	57.6	273.6	270.5	15	33	86.9	89.6	61.8	61.6	5.1	1522
		59.7	59.6	272.0	269.0	15	43	85.3	88.2	59.9	59.6		
		61.6	61.7	270.4	267.6	15	53	83.5	86.7	58.0	57.5		
471	2.8	43.3	42.8	277.9	272.6	15	44	82.1	86.7	47.2	46.7	3.0	720
		45.2	44.9	276.1	271.1	15	54	80.2	85.2	45.3	44.7		
		47.1	46.9	274.3	269.7	16	4	78.2	83.5	43.4	42.6		
457	2.8	53.1	52.5	278.1	274.3	15	59	82.5	85.8	56.8	56.3	5.1	1522
		55.0	54.6	276.3	272.8	16	9	80.7	84.2	54.9	54.3		
		56.9	56.6	274.6	271.3	16	19	78.8	82.6	53.0	52.2		
457	2.8	55.4	55.0	276.0	272.5	16	11	83.8	86.8	59.4	58.9	3.3	762
		57.3	57.0	274.3	271.0	16	21	82.0	85.2	57.4	56.9		
		59.2	59.1	272.6	269.6	16	31	80.2	83.7	55.6	54.9		
471	2.8	55.9	56.3	266.8	263.5	16	50	95.2	98.1	59.9	60.5	3.9	806
		57.8	58.3	265.3	262.2	17	0	93.7	96.8	58.0	58.5		
		59.7	60.4	263.8	261.0	17	10	92.2	95.5	56.1	56.5		
1345	4.8	52.7	52.2	277.3	273.4	17	2	85.0	88.3	56.7	56.4	4.2	1552
		54.6	54.3	275.5	271.9	17	12	83.3	86.8	54.8	54.4		
		56.5	56.3	273.8	270.5	17	22	81.5	85.3	52.9	52.3		
495	3.3	51.7	51.8	270.6	266.7	17	12	91.9	95.3	55.7	56.0	3.9	806
		53.6	53.9	269.0	265.4	17	22	90.3	93.9	53.8	54.0		
		55.5	55.9	267.5	264.1	17	32	88.7	92.6	51.9	52.0		
1345	4.8	56.9	56.7	273.5	270.2	17	24	87.2	90.0	61.0	60.9	3.0	819
		58.8	58.8	271.8	268.8	17	34	85.6	88.6	59.1	58.8		
		60.7	60.8	270.2	267.4	17	44	83.8	87.1	57.2	56.8		
510	5.1	54.0	53.7	276.3	272.6	17	40	84.5	87.7	57.9	57.6	3.0	819
		56.0	55.7	274.5	271.1	17	50	82.8	86.2	56.0	55.6		
		57.9	57.8	272.9	269.7	18	0	81.0	84.6	54.1	53.5		
556	3.4	38.7	38.2	279.1	272.8	17	55	84.3	89.8	42.3	42.1	4.6	791
		40.6	40.2	277.2	271.3	18	5	82.5	88.4	40.4	40.0		
		42.5	42.3	275.3	269.9	18	15	80.5	86.8	38.5	38.0		
556	3.4	41.2	40.8	276.6	270.9	18	8	82.4	87.4	45.0	44.6	3.9	806
		43.1	42.9	274.8	269.4	18	18	80.5	85.9	43.1	42.5		
		45.0	44.9	273.0	268.0	18	28	78.5	84.2	41.3	40.5		
548	2.9	55.5	54.9	278.1	274.7	18	42	85.2	88.2	59.2	58.9	3.5	866
		57.4	57.0	276.3	273.1	18	52	83.5	86.7	57.3	56.9		
		59.3	59.0	274.6	271.6	19	2	81.7	85.2	55.4	54.8		
579	3.8	43.1	43.4	269.8	264.5	18	59	91.8	96.4	46.9	47.3	4.2	854
		45.1	45.4	268.3	263.3	19	9	90.2	95.2	45.0	45.2		
		47.0	47.5	266.7	262.1	19	19	88.6	93.9	43.1	43.2		
504	2.5	43.5	43.0	279.0	273.7	19	9	81.8	86.4	47.3	46.8	5.3	849
		45.4	45.0	277.1	272.1	19	19	79.9	84.9	45.5	44.8		
		47.3	47.1	275.3	270.7	19	29	77.9	83.2	43.6	42.8		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-40	LAT-35	LAT-40	LAT-35			LAT-40	LAT-35	LAT-40	LAT-35		
559	4.7	56.2	56.2	271.8	268.4	19	19	89.6	92.5	60.1	60.2	5.3	1621
		58.2	58.3	270.2	267.1	19	29	88.0	91.1	58.2	58.2		
		60.1	60.3	268.6	265.7	19	39	86.3	89.6	56.3	56.1		
594	2.5	48.3	48.1	274.4	269.9	19	34	85.3	89.2	52.1	51.9	4.2	1612
		50.2	50.2	272.7	268.5	19	44	83.6	87.8	50.2	49.9		
		52.1	52.2	271.0	267.2	19	54	81.8	86.2	48.3	47.8		
1413	5.0	55.6	55.5	272.5	269.1	19	45	87.7	90.6	59.5	59.4	4.6	905
		57.5	57.6	270.8	267.7	19	55	86.0	89.2	57.5	57.3		
		59.4	59.6	269.2	266.3	20	5	84.3	87.7	55.6	55.3		
597	2.9	53.3	53.1	274.3	270.6	19	57	85.7	88.9	57.2	56.9	4.6	905
		55.2	55.2	272.6	269.1	20	7	83.9	87.4	55.3	54.9		
		57.1	57.2	271.0	267.7	20	17	82.2	85.9	53.4	52.8		
597	2.9	57.0	57.0	271.1	267.9	20	16	89.7	92.5	60.8	60.9	2.2	22
		58.9	59.0	269.5	266.5	20	26	88.1	91.1	58.9	58.8		
		60.8	61.1	267.9	265.1	20	36	86.4	89.7	56.9	56.8		
646	4.4	38.4	38.6	270.7	264.4	20	29	89.7	95.2	42.2	42.4	4.6	896
		40.3	40.6	269.1	263.3	20	39	88.0	93.9	40.3	40.4		
		42.2	42.7	267.6	262.1	20	49	86.3	92.6	38.4	38.4		
644	3.4	45.1	45.1	273.3	268.3	20	46	88.5	92.8	49.2	49.2	5.2	14
		47.0	47.1	271.6	267.0	20	56	86.8	91.5	47.3	47.2		
		49.0	49.1	270.0	265.6	21	6	85.1	90.1	45.4	45.2		
1457	4.3	47.2	47.2	272.8	268.1	20	59	87.1	91.1	51.2	51.1	5.5	1018
		49.1	49.2	271.1	266.8	21	9	85.3	89.7	49.3	49.1		
		51.0	51.3	269.5	265.5	21	19	83.6	88.2	47.4	47.0		
679	3.1	40.9	41.4	267.6	261.9	21	22	93.8	98.8	44.8	45.4	4.4	35
		42.8	43.4	266.1	260.8	21	32	92.3	97.7	42.9	43.4		
		44.7	45.4	264.7	259.8	21	42	90.8	96.5	41.0	41.3		
1457	4.3	54.3	54.7	266.8	263.3	21	36	92.1	95.1	58.3	58.6	4.2	71
		56.2	56.8	265.3	262.0	21	46	90.5	93.8	56.4	56.6		
		58.1	58.8	263.8	260.8	21	56	88.9	92.4	54.5	54.5		
692	2.9	45.7	45.7	272.1	267.2	21	56	90.8	95.0	49.5	49.8	5.4	61
		47.6	47.7	270.4	265.9	22	6	89.2	93.7	47.6	47.7		
		49.5	49.8	268.8	264.6	22	16	87.5	92.4	45.7	45.7		
1487	3.3	43.6	43.7	271.3	266.0	22	7	89.0	93.6	47.4	47.5	5.4	61
		45.5	45.7	269.6	264.7	22	17	87.3	92.2	45.5	45.5		
		47.4	47.8	268.1	263.5	22	27	85.6	90.9	43.6	43.4		
696	4.7	56.3	55.6	279.5	276.1	22	20	80.9	93.7	60.1	59.5	4.9	1066
		58.2	57.7	277.7	274.6	22	30	79.1	82.2	58.3	57.4		
		60.1	59.7	275.9	273.0	22	40	77.2	80.5	56.4	55.4		
692	2.9	53.3	53.8	265.8	262.1	22	36	94.9	98.1	57.4	57.9	4.2	1085
		55.2	55.9	264.3	260.9	22	46	93.4	96.8	55.4	55.9		
		57.1	57.9	262.8	259.7	22	56	91.9	95.5	53.5	53.9		
706	2.1	50.5	51.0	266.7	262.6	22	51	92.6	96.2	54.5	54.9	4.2	1085
		52.4	53.0	265.2	261.4	23	1	91.1	94.9	52.6	52.8		
		54.3	55.0	263.7	260.2	23	11	89.5	93.6	50.7	50.8		
736	4.7	46.9	47.0	271.8	267.1	23	10	89.6	93.7	50.8	51.0	4.2	1085
		48.8	49.0	270.2	265.8	23	20	88.0	92.3	48.9	48.9		
		50.8	51.1	268.6	264.5	23	30	86.3	91.0	47.0	46.9		
736	4.7	51.3	51.7	268.1	264.1	23	33	92.6	96.1	55.2	55.6	4.3	140
		53.2	53.7	266.6	262.9	23	43	91.0	94.8	53.3	53.5		
		55.2	55.7	265.1	261.6	23	53	89.4	93.4	51.3	51.5		
779	4.3	40.1	39.8	277.4	271.4	23	45	83.6	88.8	44.2	43.8	4.2	1085
		42.0	41.8	275.5	270.0	23	55	81.8	87.3	42.3	41.8		
		43.9	43.8	273.7	268.5	24	5	79.8	85.7	40.4	39.7		

CATNO	MAG	WEST STAR		AZ		LST HRS MIN	AZ		EAST STAR		MAG	CATNO
		LAT-35	LAT-30	LAT-35	LAT-30		LAT-35	LAT-30	Z. D.	Z. D.		
762	3.3	53.1	52.6	277.8	274.0	0 0	83.7	86.9	57.2	56.8	3.2	149
		55.1	54.7	276.1	272.6	0 10	82.1	85.6	55.2	54.6		
		57.1	56.9	274.6	271.3	0 20	80.4	84.2	53.2	52.5		
762	3.3	56.9	56.7	274.7	271.5	0 19	87.7	90.4	61.1	61.0	4.0	172
		59.0	58.8	273.2	270.2	0 29	86.2	89.2	59.1	58.9		
		61.0	61.0	271.7	269.0	0 39	84.6	87.9	57.0	56.7		
1552	4.2	51.6	51.3	275.3	271.3	0 44	83.8	87.2	56.0	55.6	4.0	172
		53.6	53.4	273.7	270.0	0 54	82.2	85.9	54.0	53.5		
		55.7	55.6	272.2	268.8	1 4	80.6	84.5	52.0	51.3		
812	3.8	48.4	47.8	278.7	274.2	1 1	81.1	84.9	52.6	52.0	4.0	172
		50.4	50.0	277.0	272.9	1 11	79.4	83.5	50.5	49.8		
		52.4	52.1	275.4	271.6	1 21	77.6	82.0	48.5	47.7		
1594	5.4	39.5	39.0	278.1	272.0	1 11	83.7	89.0	43.7	43.4	5.3	161
		41.5	41.2	276.3	270.7	1 21	82.0	87.7	41.6	41.2		
		43.5	43.4	274.7	269.4	1 31	80.2	86.3	39.6	39.0		
806	3.9	53.2	53.6	266.6	262.9	1 25	95.9	99.0	57.1	57.8	3.8	217
		55.2	55.8	265.3	261.9	1 35	94.6	98.0	55.1	55.6		
		57.3	57.9	264.0	260.8	1 45	93.2	97.0	53.0	53.5		
812	3.8	55.3	55.2	273.3	269.8	1 35	87.1	90.0	59.4	59.3	3.7	219
		57.3	57.3	271.8	268.6	1 45	85.5	88.8	57.3	57.1		
		59.4	59.5	270.3	267.4	1 55	84.0	87.5	55.3	54.9		
1584	5.4	46.4	46.4	272.5	267.7	1 45	89.1	93.2	50.5	50.6	3.0	204
		48.4	48.5	271.0	266.6	1 55	87.6	92.0	48.4	48.4		
		50.5	50.7	269.6	265.5	2 5	86.1	90.8	46.4	46.3		
849	5.3	46.4	46.3	273.9	269.1	1 56	84.8	88.9	50.6	50.3	2.7	207
		48.4	48.4	272.4	267.9	2 6	83.2	87.6	48.6	48.2		
		50.5	50.6	270.9	266.8	2 16	81.5	86.2	46.6	46.0		
873	3.8	41.5	41.1	277.0	271.4	2 8	85.6	90.5	45.8	45.6	3.0	204
		43.5	43.3	275.4	270.1	2 18	84.0	89.2	43.7	43.4		
		45.6	45.5	273.8	268.9	2 28	82.3	87.9	41.7	41.3		
873	3.8	44.0	43.7	275.0	269.8	2 20	87.4	91.9	48.0	48.0	3.9	222
		46.0	45.9	273.5	268.6	2 30	85.9	90.7	46.0	45.8		
		48.0	48.1	271.9	267.4	2 40	84.3	89.5	43.9	43.6		
861	4.2	56.6	56.2	276.6	273.3	2 43	84.2	87.0	60.8	60.4	4.3	266
		58.7	58.3	275.1	272.0	2 53	82.6	85.7	58.7	58.2		
		60.7	60.5	273.5	270.7	3 3	81.0	84.3	56.7	56.1		
1621	5.3	45.0	44.5	278.0	273.9	2 53	83.8	88.1	49.1	48.8	2.0	243
		47.1	46.7	277.2	272.5	3 3	82.1	86.8	47.1	46.5		
		49.1	48.8	275.6	271.2	3 13	80.4	85.4	45.1	44.5		
1621	5.3	47.7	47.3	276.7	272.1	3 6	83.9	87.9	51.7	51.4	1.6	257
		49.7	49.5	275.1	270.8	3 16	82.3	86.5	49.7	49.2		
		51.8	51.6	273.5	269.6	3 26	80.6	85.1	47.7	47.0		
975	4.6	48.1	47.6	277.9	273.4	3 25	82.7	86.6	52.2	51.7	4.1	271
		50.1	49.7	276.2	272.0	3 35	81.0	85.2	50.2	49.6		
		52.1	51.9	274.6	270.7	3 45	79.3	83.8	48.2	47.4		
14	5.2	41.7	41.8	272.4	266.8	3 36	90.3	95.2	45.8	46.0	3.1	270
		43.8	43.9	270.9	265.7	3 46	88.9	94.1	43.7	43.9		
		45.8	46.1	269.5	264.6	3 56	87.4	93.0	41.7	41.7		
905	4.6	52.5	52.3	274.3	270.5	3 47	84.8	88.0	56.9	56.6	5.1	1202
		54.6	54.5	272.8	269.2	3 57	83.2	86.7	54.9	54.4		
		56.6	56.7	271.3	268.0	4 7	81.5	85.4	52.8	52.3		
905	4.6	55.2	55.1	272.3	268.9	4 0	88.1	91.1	59.2	59.2	5.1	311
		57.2	57.3	270.9	267.7	4 10	86.7	89.9	57.1	57.0		
		59.3	59.5	269.4	266.5	4 20	85.1	88.6	55.1	54.8		
22	3.2	50.8	50.6	274.7	270.6	4 20	85.1	88.6	55.1	54.8	5.1	311
		52.9	52.7	273.1	269.3	4 30	83.5	87.3	53.1	52.7		
		54.9	54.9	271.6	268.1	4 40	81.9	86.0	51.0	50.5		
61	5.4	38.2	38.3	272.9	266.5	4 37	89.5	95.0	42.3	42.5	3.5	1204
		40.3	40.4	271.4	265.5	4 47	88.0	93.9	40.3	40.3		
		42.3	42.6	269.9	264.4	4 57	86.5	92.8	38.2	38.2		
61	5.4	40.3	40.4	271.4	265.5	4 47	88.0	93.9	40.3	40.3	2.9	308
		42.3	42.6	269.9	264.4	4 57	86.5	92.8	38.2	38.2		
		44.4	44.7	268.5	263.4	5 7	87.0	92.9	40.1	40.1		
1018	5.5	56.2	56.8	265.5	262.2	5 0	96.2	99.0	60.6	61.2	5.2	1247
		58.3	58.9	264.2	261.2	5 10	94.9	97.9	58.5	59.1		
		60.3	61.1	262.9	260.1	5 20	93.5	96.8	56.5	56.9		
1043	5.1	52.4	52.4	268.4	264.6	5 21	93.4	96.7	56.3	56.7	5.2	1247
		54.1	54.5	267.1	263.5	5 31	92.0	95.6	54.2	54.6		
		56.2	56.7	265.7	262.4	5 41	90.6	94.5	52.2	52.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-35	Z. D. LAT-30	LAT-35	LAT-30	HRS	MIN	LAT-35	LAT-30	LAT-35	LAT-30		
59	3.7	50.4	54.1	274.9	271.4	5	33	85.8	88.8	58.7	58.5	5.0	364
		56.5	56.3	273.4	270.1	5	43	84.2	87.5	56.7	56.3		
		58.5	58.5	271.9	268.8	5	53	82.6	86.2	54.7	54.2		
71	4.2	51.8	52.1	269.4	265.5	5	49	90.3	93.7	56.0	56.2	5.2	373
		53.9	54.2	268.0	264.4	5	59	88.9	92.5	54.0	54.0		
		55.9	56.4	266.6	263.3	6	9	87.4	91.3	51.9	51.9		
102	4.8	43.9	43.7	275.4	270.2	6	1	87.7	92.2	48.1	48.1	5.2	1247
		45.9	45.8	273.8	269.0	6	11	86.2	91.0	46.1	45.9		
		48.0	48.0	272.3	267.8	6	21	84.6	89.8	44.0	43.8		
97	4.4	52.5	51.8	279.6	275.7	6	18	81.5	84.8	56.8	56.2	3.8	381
		54.5	54.0	277.9	274.3	6	28	79.8	83.4	54.8	54.1		
		56.6	56.1	276.3	273.0	6	38	78.1	81.9	52.8	51.9		
1099	4.3	42.0	41.7	275.9	270.3	6	36	83.1	87.9	46.4	46.0	5.2	373
		44.1	43.9	274.3	269.1	6	46	81.4	86.5	44.4	43.9		
		46.1	46.1	272.7	267.9	6	56	79.6	85.1	42.4	41.7		
102	4.8	53.5	53.8	268.4	264.7	6	48	90.4	93.6	57.6	57.8	4.2	1283
		55.6	56.0	267.0	263.6	6	58	89.0	92.4	55.5	55.6		
		57.6	58.1	265.7	262.5	7	8	87.5	91.2	53.5	53.4		
1100	5.3	49.3	48.9	276.7	272.4	7	4	84.3	88.0	53.3	53.0	3.3	410
		51.3	51.1	275.1	271.1	7	14	82.7	86.7	51.3	50.8		
		53.4	53.2	273.6	269.8	7	24	81.0	85.3	49.3	48.7		
140	4.3	47.4	47.6	269.3	264.7	7	19	92.6	96.5	51.5	51.9	4.5	421
		49.4	49.8	267.9	263.7	7	29	91.2	95.5	49.4	49.7		
		51.5	52.0	266.6	262.6	7	39	89.8	94.4	47.4	47.6		
161	5.3	44.4	44.1	275.7	271.6	7	32	83.7	88.2	48.6	48.2	4.2	1283
		46.4	46.3	274.1	269.3	7	42	82.1	86.8	46.6	46.1		
		48.5	48.4	272.5	268.1	7	52	80.3	85.4	44.5	43.9		
140	4.3	53.3	53.9	265.4	261.7	7	48	96.3	99.4	57.6	58.3	3.2	453
		55.4	56.0	264.1	260.7	7	58	95.0	98.3	55.5	56.1		
		57.4	58.2	262.8	259.7	8	8	93.6	97.3	53.5	54.0		
204	3.0	42.0	41.6	277.5	271.9	8	28	81.9	86.7	46.3	45.8	4.9	1301
		44.0	43.7	275.8	270.6	8	38	80.2	85.3	44.3	43.7		
		46.0	45.9	274.2	269.4	8	48	78.3	83.9	42.3	41.5		
222	3.9	39.7	39.1	279.4	273.3	8	40	79.8	85.0	43.9	43.2	4.9	1301
		41.7	41.3	277.6	271.9	8	50	78.0	83.6	41.9	41.1		
		43.7	43.4	275.9	270.6	9	0	76.0	82.0	39.9	38.9		
207	2.7	47.4	46.9	277.8	273.2	8	52	83.4	87.4	51.6	51.2	3.1	465
		49.5	49.1	276.1	271.8	9	2	81.7	86.0	49.5	49.0		
		51.5	51.3	274.5	270.6	9	12	80.0	84.6	47.5	46.8		
1146	4.3	57.1	56.6	277.0	273.7	9	14	83.3	86.0	61.3	60.8	1.2	498
		59.1	58.8	275.4	272.4	9	24	81.7	84.7	59.2	58.6		
		61.1	60.9	273.9	271.1	9	34	80.1	83.3	57.2	56.5		
222	3.9	49.2	49.3	271.7	267.4	9	27	87.4	91.1	53.4	53.3	4.8	1345
		51.3	51.4	270.2	266.2	9	37	85.9	89.9	51.4	51.2		
		53.3	53.6	268.8	265.1	9	47	84.3	88.6	49.3	49.0		
222	3.9	52.5	52.7	269.3	265.5	9	43	89.5	92.8	56.6	56.7	5.1	510
		54.6	54.9	267.9	264.4	9	53	88.0	91.6	54.6	54.6		
		56.6	57.1	266.6	263.3	10	3	86.5	90.4	52.5	52.4		
270	3.1	40.2	40.1	273.9	267.8	10	1	88.0	93.2	44.2	44.2	3.3	495
		42.2	42.3	272.2	266.7	10	11	86.5	92.0	42.1	42.1		
		44.3	44.4	270.7	265.6	10	21	84.9	90.9	40.1	39.9		
273	2.0	42.7	43.1	267.7	262.3	10	24	92.7	97.3	46.8	47.2	5.2	515
		44.7	45.3	266.4	261.4	10	34	91.3	96.3	44.7	45.1		
		46.8	47.4	265.1	260.5	10	44	89.9	95.3	42.7	42.9		
273	2.0	45.3	45.9	266.0	261.1	10	37	94.2	99.4	49.6	50.1	5.4	1376
		47.4	48.0	264.7	260.2	10	47	92.9	97.4	47.5	48.0		
		49.4	50.2	263.5	259.3	10	57	91.6	96.4	45.5	45.8		
1204	3.5	41.5	41.7	271.0	265.4	10	56	91.7	96.5	45.7	46.0	5.4	1376
		43.6	43.8	269.6	264.4	11	6	90.3	95.5	43.6	43.9		
		45.6	46.0	268.2	263.4	11	16	88.8	94.5	41.6	41.7		
1212	4.6	46.7	46.3	277.6	272.8	11	17	82.2	86.3	51.0	50.5	2.9	548
		48.8	48.4	275.9	271.5	11	27	80.5	84.9	49.0	48.3		
		50.8	50.6	274.3	270.2	11	37	78.8	83.4	46.9	46.2		
288	4.5	52.7	53.1	267.2	263.5	11	30	91.9	95.1	56.9	57.2	5.0	1413
		54.8	55.3	265.9	262.4	11	40	90.5	94.0	54.8	55.0		
		56.8	57.4	264.6	261.4	11	50	89.0	92.8	52.8	52.9		
288	4.5	55.0	55.5	265.8	262.3	11	41	93.7	96.6	59.4	59.8	2.9	597
		57.0	57.7	264.4	261.3	11	51	92.3	95.5	57.3	57.7		
		59.1	59.8	263.1	260.2	12	1	90.9	94.4	55.3	55.5		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT-35	LAT-30	LAT-35	LAT-30	HRS	MIN	LAT-35	LAT-30	Z. D.		
308	2.9	50.1	50.6	266.1	262.0	11	55	94.1	97.7	54.1	54.6	2.5	594
		52.1	52.8	264.8	261.0	12	5	92.8	96.6	52.1	52.5		
		54.2	54.9	263.5	260.0	12	15	91.4	95.5	50.0	50.3		
332	4.2	44.0	44.7	264.8	259.8	12	15	95.3	99.7	48.2	48.8	3.0	592
		46.0	46.8	263.6	258.9	12	25	94.0	98.8	46.1	46.7		
		48.1	48.9	262.4	258.0	12	35	92.7	97.8	44.1	44.5		
325	5.2	56.6	56.0	278.5	275.2	12	30	82.1	85.0	60.7	60.2	2.7	622
		58.6	58.2	276.9	273.8	12	40	80.5	83.6	58.7	58.0		
		60.7	60.3	275.3	272.5	12	50	78.9	82.2	56.7	55.9		
1243	4.9	43.7	44.1	267.8	262.6	12	41	94.2	98.7	47.6	48.2	3.1	607
		45.7	46.3	266.5	261.7	12	51	92.9	97.8	45.6	46.0		
		47.8	48.4	265.2	260.7	13	1	91.6	96.8	43.5	43.9		
365	5.0	41.6	42.2	266.3	260.7	12	57	94.3	99.1	45.7	46.3	1.2	616
		43.6	44.3	265.0	259.8	13	7	93.0	98.2	43.6	44.1		
		45.7	46.4	263.8	259.9	13	17	91.6	97.2	41.6	42.0		
373	5.2	45.8	45.4	277.4	272.5	13	9	83.9	88.2	49.8	49.4	5.0	624
		47.9	47.6	275.7	271.2	13	19	82.3	86.8	47.8	47.3		
		49.9	49.7	274.1	269.9	13	29	80.6	85.4	45.7	45.1		
389	4.1	49.4	48.9	277.9	273.6	13	52	83.5	87.2	53.7	53.3	3.6	658
		51.4	51.0	276.3	272.3	14	2	81.9	85.9	51.6	51.1		
		53.4	53.2	274.7	271.0	14	12	80.2	84.5	49.6	48.9		
410	3.3	47.2	46.5	280.8	276.2	14	3	81.7	85.7	51.4	50.9	3.6	658
		49.2	48.6	279.1	274.7	14	13	80.0	84.3	49.4	48.7		
		51.2	50.8	277.4	273.3	14	23	78.2	82.8	47.4	46.6		
380	4.1	54.9	54.7	273.6	270.1	14	19	86.5	89.5	59.1	58.9	4.7	696
		56.9	56.9	272.1	268.8	14	29	85.0	88.2	57.1	56.8		
		59.0	59.0	270.6	267.6	14	39	83.4	86.9	55.0	54.6		
421	4.5	45.5	45.5	271.6	266.7	14	33	89.0	93.2	49.8	49.9	4.9	682
		47.5	47.7	270.1	265.5	14	43	87.5	92.1	47.7	47.7		
		49.6	49.9	268.7	264.5	14	53	86.0	90.9	45.7	45.5		
426	3.8	50.0	49.3	280.6	276.4	14	43	82.8	86.4	54.2	53.7	4.7	696
		52.1	51.5	278.8	274.9	14	53	81.1	85.0	52.2	51.6		
		54.1	53.6	277.2	273.6	15	3	79.4	83.6	50.2	49.4		
421	4.5	51.2	51.6	267.6	263.6	15	1	92.9	96.3	55.5	55.9	3.0	720
		53.2	53.7	266.2	262.6	15	11	91.6	95.2	53.5	53.8		
		55.3	55.9	264.9	261.5	15	21	90.1	94.1	51.4	51.6		
1305	5.5	44.0	44.5	266.4	261.3	15	11	95.7	100.1	48.1	48.8	2.1	706
		46.0	46.6	265.1	260.4	15	21	94.4	99.2	46.1	46.7		
		48.0	48.8	263.9	259.5	15	31	93.1	98.2	44.0	44.5		
421	4.5	55.3	55.9	264.9	261.5	15	21	93.9	96.8	59.5	60.0	5.1	1517
		57.3	58.0	263.6	260.5	15	31	92.5	95.7	57.5	57.8		
		59.4	60.1	262.3	259.5	15	41	91.1	94.6	55.4	55.7		
431	4.1	57.6	57.7	270.5	267.3	15	33	89.6	92.3	61.6	61.7	5.1	1522
		59.6	59.8	269.0	266.1	15	43	88.2	91.1	59.6	59.5		
		61.7	62.0	267.6	265.0	15	53	86.7	89.9	57.5	57.4		
471	2.3	42.6	42.6	272.8	267.3	15	43	86.9	91.6	46.9	46.8	3.0	720
		44.7	44.8	271.3	266.2	15	53	85.3	90.4	44.9	44.7		
		46.7	46.9	269.8	265.1	16	3	83.7	89.1	42.8	42.5		
465	3.1	49.2	48.6	278.6	274.2	15	54	84.7	88.4	53.4	53.1	5.5	1512
		51.2	50.8	276.9	272.9	16	4	83.1	87.1	51.3	50.9		
		53.3	53.0	275.3	271.6	16	14	81.4	85.7	49.3	48.8		
465	3.1	49.4	48.9	279.4	274.1	15	55	84.6	88.3	53.6	53.3	5.1	1514
		51.4	51.0	276.7	272.7	16	5	83.0	87.0	51.6	51.2		
		53.5	53.2	275.1	271.4	16	15	81.4	85.7	49.6	49.0		
465	3.1	51.2	50.8	276.9	272.9	16	4	85.0	88.5	55.3	55.0	5.1	1522
		53.3	53.0	275.3	271.6	16	14	83.4	87.2	53.2	52.8		
		55.3	55.1	273.7	270.3	16	24	81.8	85.8	51.2	50.7		
465	3.1	53.7	53.4	275.0	271.3	16	16	86.0	89.1	57.9	57.7	3.3	762
		55.7	55.6	273.4	270.0	16	26	84.5	87.9	55.9	55.5		
		57.8	57.7	271.9	268.8	16	36	82.9	86.5	53.8	53.4		
1345	4.8	45.7	45.2	278.6	273.7	16	30	80.8	85.0	50.0	49.4	5.1	1522
		47.7	47.3	276.9	272.4	16	40	79.0	83.5	48.0	47.2		
		49.8	49.5	275.3	271.1	16	50	77.2	82.0	46.0	45.1		
1345	4.8	52.2	52.1	273.4	269.6	17	2	88.3	91.7	56.4	56.4	4.2	1552
		54.3	54.3	271.9	268.3	17	12	86.8	90.4	54.4	54.2		
		56.3	56.4	270.5	267.2	17	22	85.3	89.2	52.3	52.1		
495	3.3	51.8	52.3	266.7	262.8	17	12	95.3	98.6	56.0	56.6	3.9	806
		53.9	54.4	265.4	261.8	17	22	93.9	97.5	54.0	54.5		
		55.9	56.6	264.1	260.7	17	32	92.6	96.5	52.0	52.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.				HRS	MIN			Z. D.			
		LAT-35	LAT-30	LAT-35	LAT-30			LAT-35	LAT-30	LAT-35	LAT-30		
1345	4.8	56.7	56.9	270.2	266.9	17	24	90.0	92.8	60.9	61.0	3.0	819
		58.8	59.0	268.8	265.8	17	34	88.6	91.6	58.8	58.8		
		60.8	61.2	267.4	264.6	17	44	87.1	90.4	56.8	56.7		
510	5.1	53.5	53.4	272.8	269.1	17	39	87.8	91.0	57.8	57.8	3.0	819
		55.5	55.5	271.3	267.9	17	49	86.3	89.7	55.8	55.6		
		57.5	57.7	269.8	266.7	17	59	84.8	88.5	53.7	53.4		
556	3.4	38.2	38.2	272.8	266.5	17	55	89.8	95.3	42.1	42.3	4.6	791
		40.2	40.4	271.3	265.4	18	5	88.4	94.3	40.0	40.2		
		42.3	42.5	269.9	264.4	18	15	86.8	93.2	38.0	38.0		
556	3.4	40.6	40.8	271.0	265.2	18	7	87.6	92.6	44.8	44.8	3.9	806
		42.7	43.0	269.6	264.2	18	17	86.0	91.4	42.7	42.6		
		44.7	45.1	268.2	263.2	18	27	84.4	90.2	40.7	40.5		
548	2.9	50.5	49.9	278.2	274.1	18	20	82.2	85.8	54.6	54.1	4.4	828
		52.5	52.1	276.6	272.7	19	30	80.5	84.4	52.6	51.9		
		54.5	54.3	275.0	271.4	18	40	78.8	82.9	50.6	49.8		
548	2.9	54.9	54.7	274.7	271.1	18	42	88.2	91.2	58.9	58.9	3.5	866
		57.0	56.9	273.1	269.9	18	52	86.7	90.0	56.9	56.7		
		59.0	59.0	271.6	268.6	19	2	85.2	88.7	54.8	54.6		
577	4.0	50.8	50.1	279.8	275.7	19	3	81.9	85.5	54.8	54.3	4.2	861
		52.8	52.3	278.1	274.3	19	13	80.3	84.1	52.8	52.1		
		54.9	54.4	276.5	273.0	19	23	78.5	82.6	50.8	49.9		
597	2.9	44.5	44.1	277.1	272.0	19	15	86.2	90.6	48.8	48.6	5.4	1597
		46.6	46.3	275.4	270.7	19	25	84.6	89.4	46.7	46.5		
		48.6	48.5	273.9	269.4	19	35	83.0	88.1	44.7	44.3		
594	2.5	46.3	46.4	271.2	266.5	19	25	89.8	93.9	50.5	50.6	3.8	873
		48.3	48.5	269.8	265.4	19	35	88.3	92.8	48.4	48.5		
		50.4	50.7	268.4	264.3	19	45	86.8	91.6	46.4	46.3		
1413	5.0	55.3	55.5	269.2	265.8	19	44	90.8	93.7	59.6	59.8	4.6	905
		57.4	57.7	267.8	264.6	19	54	89.3	92.5	57.5	57.6		
		59.4	59.9	266.4	263.5	20	4	87.9	91.3	55.5	55.5		
597	2.9	52.9	53.0	270.7	266.9	19	56	89.0	92.3	57.1	57.2	4.6	905
		55.0	55.2	269.3	265.8	20	6	87.6	91.1	55.1	55.0		
		57.0	57.3	267.9	264.6	20	16	86.1	89.8	53.0	52.9		
597	2.9	56.8	57.1	268.0	264.8	20	15	92.7	95.4	61.1	61.4	2.2	22
		58.8	59.3	266.6	263.6	20	25	91.3	94.2	59.0	59.3		
		60.9	61.4	265.3	262.5	20	35	89.8	93.1	57.0	57.1		
644	3.4	45.1	45.4	268.3	263.4	20	46	92.8	97.1	49.2	49.7	5.2	14
		47.1	47.6	267.0	262.4	20	56	91.5	96.1	47.2	47.5		
		49.1	49.7	265.6	261.4	21	6	90.1	95.0	45.2	45.4		
1457	4.3	47.0	47.3	268.3	263.7	20	58	91.2	95.2	51.3	51.6	5.5	1018
		49.0	49.5	266.9	262.6	21	8	89.8	94.1	49.3	49.5		
		51.1	51.6	265.6	261.6	21	18	88.3	93.0	47.3	47.3		
682	4.0	43.4	43.1	275.8	270.5	21	21	82.8	87.3	47.6	47.2	2.2	22
		45.5	45.3	274.2	269.3	21	31	81.0	86.0	45.6	45.0		
		47.5	47.5	272.7	268.1	21	41	79.3	84.5	43.5	42.8		
1457	4.3	54.5	55.3	263.4	259.9	21	35	95.3	98.2	58.8	59.4	4.2	71
		56.6	57.4	262.2	259.0	21	45	93.9	97.2	56.8	57.3		
		58.6	59.5	260.9	258.0	21	55	92.6	96.1	54.7	55.1		
692	2.9	45.7	46.1	267.2	262.4	21	56	95.0	99.2	49.8	50.4	5.4	61
		47.7	48.3	265.9	261.4	22	6	93.7	98.2	47.7	48.3		
		49.8	50.4	264.6	260.4	22	16	92.4	97.2	45.7	46.1		
1487	3.3	43.5	44.0	266.1	260.9	22	6	93.7	98.2	47.7	48.3	5.4	61
		45.5	46.2	264.9	260.1	22	16	92.4	97.2	45.7	46.1		
		47.6	48.3	263.6	259.2	22	26	91.0	96.2	43.6	44.0		
692	2.9	49.8	50.4	264.6	260.4	22	16	95.8	99.4	53.8	54.4	5.4	83
		51.8	52.6	263.3	259.5	22	26	94.5	98.3	51.7	52.3		
		53.8	54.7	262.1	258.5	22	36	93.1	97.3	49.7	50.2		
696	4.7	56.8	56.5	275.2	271.9	22	26	87.1	89.9	61.1	61.0	4.4	97
		58.9	58.7	273.7	270.6	22	36	85.6	88.6	59.1	58.8		
		60.9	60.9	272.2	269.4	22	46	84.1	87.3	57.0	56.7		
710	3.6	51.2	51.3	269.9	265.9	22	43	92.9	96.3	55.4	55.8	4.8	102
		53.2	53.5	268.5	264.8	22	53	91.5	95.2	53.4	53.7		
		55.2	55.6	267.1	263.7	23	3	90.1	94.1	51.3	51.5		
727	4.6	51.1	50.6	277.6	273.6	22	54	82.8	86.2	55.4	54.9	4.4	97
		53.1	52.8	276.0	272.2	23	4	81.1	84.9	53.4	52.8		
		55.2	54.9	274.4	270.9	23	14	79.4	83.5	51.4	50.6		
1512	5.5	49.1	48.5	278.8	274.4	23	4	81.1	84.9	53.4	52.8	4.4	97
		51.1	50.7	277.1	273.0	23	14	79.4	83.5	51.4	50.6		
		53.1	52.8	275.5	271.7	23	24	77.7	82.0	49.4	48.5		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.		LAT-35	LAT-30	HRS	MIN	LAT-35	LAT-30	Z. D.	LAT-35		
1514	5.1	49.0	48.4	279.1	274.7	23	5	81.0	84.7	53.2	52.6	4.4	97
		51.0	50.6	277.4	273.3	23	15	79.3	83.3	51.2	50.4		
		53.1	52.7	275.8	272.0	23	25	77.5	81.8	49.2	48.3		
722	5.0	55.3	55.4	270.1	266.6	23	18	90.7	93.6	59.3	55.5	5.3	1108
		57.3	57.6	268.7	265.5	23	28	89.2	92.4	57.2	57.3		
		59.4	59.7	267.3	264.4	23	38	87.8	91.2	55.2	55.1		
1517	5.1	52.1	52.1	271.2	267.3	23	33	88.5	91.8	56.2	56.2	5.3	1100
		54.1	54.3	269.8	266.2	23	43	87.0	90.6	54.2	54.1		
		56.2	56.5	268.4	265.0	23	53	85.5	89.4	52.1	51.9		
779	4.3	39.8	39.9	271.4	265.4	23	45	88.8	94.0	43.8	44.0	4.2	1085
		41.8	42.0	270.0	264.4	23	55	87.3	92.9	41.8	41.8		
		43.8	44.2	268.5	263.4	24	5	85.7	91.8	39.7	39.6		

CAT NO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO	
		Z. D.	LAT-30	LAT-25	LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25	Z. D.			LAT-30
762	3.3		52.6	52.4	274.0	270.1	0	0	86.9	90.2	56.8	56.7	3.2	149
			54.7	54.6	272.6	269.1	0	10	85.6	89.1	54.6	54.4		
			56.9	56.9	271.3	268.1	0	20	84.2	88.0	52.5	52.2		
762	3.3		56.7	56.7	271.5	268.2	0	19	90.4	93.2	61.0	61.2	4.0	172
			58.8	58.9	270.2	267.2	0	29	89.2	92.2	58.9	58.9		
			61.0	61.2	269.0	266.2	0	39	87.9	91.2	56.7	56.7		
819	3.0		42.9	42.4	278.5	273.1	0	44	80.6	85.2	47.3	46.7	3.2	149
			45.0	44.7	276.9	271.9	0	54	79.0	83.9	45.2	44.5		
			47.2	46.9	275.5	270.8	1	4	77.3	82.6	43.1	42.2		
812	3.8		47.6	47.4	278.4	269.8	1	0	85.1	89.0	52.2	51.9	4.0	172
			49.8	49.7	273.0	268.8	1	10	83.6	87.8	50.0	49.6		
			51.9	51.9	271.7	267.8	1	20	82.2	86.7	47.9	47.4		
1584	5.4		39.0	39.1	272.0	265.8	1	11	89.0	94.3	43.4	43.5	5.3	161
			41.2	41.4	270.7	265.0	1	21	87.7	93.4	41.2	41.2		
			43.4	43.6	269.4	264.1	1	31	86.3	92.5	39.0	39.0		
1561	4.3		56.8	57.1	268.6	265.4	1	25	91.3	94.0	61.4	61.7	3.7	219
			59.0	59.3	267.4	264.5	1	35	90.0	93.0	59.3	59.4		
			61.1	61.6	266.3	263.5	1	45	88.8	92.0	57.1	57.1		
819	3.0		54.3	54.4	271.0	267.4	1	37	89.8	92.8	58.8	58.9	3.7	219
			56.5	56.7	269.7	266.4	1	47	89.5	91.8	56.7	56.7		
			58.7	58.9	268.5	265.5	1	57	87.2	90.8	54.5	54.4		
849	5.3		45.2	45.4	269.7	264.8	1	51	92.5	96.8	49.3	49.7	3.0	204
			47.3	47.7	268.5	263.9	2	1	91.3	95.9	47.1	47.4		
			49.5	49.9	267.3	263.1	2	11	90.1	95.1	45.0	45.2		
1597	5.4		45.0	45.1	271.5	266.5	2	1	88.3	92.6	49.3	49.3	2.7	207
			47.1	47.3	270.2	265.6	2	11	86.9	91.6	47.1	47.0		
			49.3	49.6	269.0	264.7	2	21	85.5	90.6	44.9	44.8		
866	3.5		47.2	46.9	275.9	271.3	2	11	85.3	89.3	51.5	51.2	3.7	219
			49.3	49.1	274.5	270.2	2	21	83.9	88.2	49.3	49.0		
			51.5	51.4	273.1	269.1	2	31	82.4	87.1	47.2	46.7		
1621	5.3		39.1	38.7	277.6	271.4	2	28	84.5	89.8	43.4	43.2	2.7	207
			41.3	41.0	276.1	270.3	2	38	83.0	88.7	41.3	40.9		
			43.4	43.2	274.6	269.3	2	48	81.4	87.6	39.1	38.7		
894	4.6		43.5	43.8	280.6	275.3	2	39	81.8	86.4	47.8	47.3	3.8	226
			45.6	45.0	279.0	274.1	2	49	80.3	85.2	45.6	45.0		
			47.7	47.3	277.5	272.9	2	59	78.6	83.9	43.5	42.8		
866	3.5		55.4	55.5	270.8	267.3	2	49	91.2	94.1	59.5	59.8	4.1	271
			57.6	57.7	269.5	266.3	2	59	89.9	93.1	57.4	57.5		
			59.7	60.0	268.3	265.4	3	9	88.7	92.2	55.2	55.2		
894	4.6		50.1	49.8	275.9	271.6	3	10	83.3	86.9	54.5	54.1	4.0	266
			52.3	52.0	274.4	270.6	3	20	81.9	85.7	52.4	51.9		
			54.4	54.1	273.1	269.5	3	30	80.4	84.5	50.3	49.6		
14	5.2		39.7	39.1	268.4	262.2	3	22	92.5	97.8	43.3	43.7	4.5	249
			40.9	41.4	267.3	261.6	3	32	91.3	97.0	41.1	41.5		
			43.0	43.6	266.1	260.9	3	42	90.1	96.3	39.0	39.2		
1612	4.2		56.8	57.4	264.3	261.1	3	32	95.6	98.3	61.2	61.8	4.6	1212
			58.9	59.7	263.2	260.3	3	42	94.4	97.4	59.0	59.5		
			61.1	61.9	262.1	259.5	3	52	93.3	96.5	56.9	57.3		
22	2.2		43.0	42.8	275.3	270.0	3	45	83.8	88.4	47.4	47.1	4.1	271
			45.2	45.0	273.9	268.9	3	55	82.3	87.2	45.3	44.8		
			47.3	47.3	272.5	267.9	4	5	80.7	86.0	43.1	42.6		
905	4.6		54.9	55.2	269.0	265.5	3	59	91.3	94.2	59.4	59.6	5.1	311
			57.1	57.4	267.8	264.6	4	9	90.0	93.2	57.2	57.4		
			59.3	59.7	266.6	263.7	4	19	88.8	92.3	55.0	55.1		
22	2.2		50.6	50.7	270.6	266.5	4	20	88.6	92.2	54.8	54.9	5.1	311
			52.7	53.0	269.3	265.6	4	30	87.3	91.1	52.7	52.6		
			54.9	55.2	268.1	264.6	4	40	86.0	90.1	50.5	50.3		
59	3.7		41.6	41.0	279.7	274.1	4	35	81.2	86.1	46.2	45.7	5.1	1202
			43.8	43.3	278.1	272.9	4	45	79.6	84.8	44.1	43.4		
			45.9	45.6	276.6	271.7	4	55	77.9	83.5	42.0	41.2		
71	4.2		39.5	39.6	272.5	266.5	4	51	85.8	91.0	44.1	44.0	4.6	1212
			41.7	41.8	271.2	265.6	5	1	84.3	89.9	41.9	41.7		
			43.9	44.1	269.9	264.8	5	11	82.8	88.8	39.8	39.4		
1043	5.1		52.4	53.0	264.6	260.8	5	21	96.7	99.9	56.7	57.4	5.2	1247
			54.5	55.3	263.5	260.0	5	31	95.6	99.1	54.6	55.2		
			56.7	57.5	262.4	259.2	5	41	94.5	98.3	52.4	53.0		
59	3.7		54.1	54.2	271.4	267.7	5	33	88.8	91.9	58.5	58.5	5.0	360
			56.3	56.4	270.1	266.8	5	43	87.5	90.9	56.3	56.3		
			58.5	58.7	268.8	265.8	5	53	86.2	89.8	54.2	54.0		

CAT NO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-30	LAT-25	LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25		
1071	4.8	49.1	48.8	275.6	271.2	5	56	85.8	89.5	53.5	53.3	5.0	364
		51.2	51.0	274.1	270.1	6	6	84.4	88.4	51.4	51.1		
		53.4	53.3	272.8	269.1	6	16	82.9	87.3	49.2	48.8		
1066	4.9	54.1	53.7	276.4	272.8	6	7	86.3	89.3	58.6	58.4	3.8	381
		56.3	56.0	275.0	271.7	6	17	84.9	88.2	56.4	56.1		
		58.4	58.2	273.7	270.6	6	27	83.5	87.1	54.3	53.9		
97	4.4	51.8	51.5	275.7	271.8	6	18	84.8	88.1	56.2	55.9	3.8	381
		54.0	53.8	274.3	270.7	6	28	83.4	87.0	54.1	53.7		
		56.1	56.0	273.0	269.6	6	38	81.9	85.8	51.9	51.4		
1099	4.3	41.5	41.7	270.5	264.8	6	35	88.0	92.8	46.2	46.3	5.2	373
		43.7	44.0	269.2	264.0	6	45	86.7	91.8	44.1	44.0		
		45.9	46.2	268.0	263.2	6	55	85.3	90.8	41.9	41.7		
102	4.8	53.6	54.2	264.8	261.2	6	47	93.7	96.8	58.0	58.4	4.2	1283
		55.8	56.4	263.7	260.4	6	57	92.5	95.9	55.8	56.2		
		57.9	58.7	262.6	259.6	7	7	91.3	95.0	53.7	53.9		
1100	5.3	48.7	48.7	272.5	268.1	7	3	88.2	91.9	53.2	53.2	3.3	410
		50.9	50.9	271.2	267.2	7	13	86.8	90.9	51.0	50.9		
		53.0	53.2	270.0	266.2	7	23	85.5	89.8	48.9	48.7		
1100	5.3	52.2	52.3	270.5	266.6	7	19	88.4	91.6	56.8	56.8	3.8	426
		54.3	54.5	269.2	265.5	7	29	87.1	90.6	54.6	54.5		
		56.5	56.8	268.0	264.7	7	39	85.7	89.6	52.5	52.3		
135	3.7	56.3	55.8	278.5	275.1	7	29	84.2	87.0	60.7	60.3	4.8	1299
		58.5	58.0	277.0	274.0	7	39	82.8	85.9	58.6	58.1		
		60.6	60.3	275.7	272.8	7	49	81.4	84.7	56.4	55.8		
161	5.3	48.9	49.2	267.9	263.5	7	54	91.1	94.8	53.2	53.4	4.9	1301
		51.0	51.5	266.7	262.7	8	4	89.9	93.9	51.0	51.2		
		53.2	53.7	265.6	261.9	8	14	88.6	93.0	48.9	48.9		
1144	3.3	42.2	41.7	279.0	273.4	8	7	81.6	86.4	46.4	45.9	3.8	426
		44.4	44.0	277.4	272.3	8	17	80.1	85.2	44.3	43.7		
		46.5	46.2	275.9	271.1	8	27	78.4	83.9	42.2	41.4		
207	2.7	39.6	39.2	278.2	272.1	8	18	84.5	89.7	44.0	43.7	4.1	431
		41.8	41.4	276.6	271.0	8	28	83.0	88.6	41.8	41.5		
		43.9	43.7	275.1	269.9	8	38	81.4	87.4	39.7	39.2		
204	3.0	41.6	41.6	271.9	265.3	8	28	86.7	91.6	45.8	45.8	4.9	1311
		43.7	43.9	270.6	265.4	8	38	85.3	90.6	43.7	43.5		
		45.9	46.1	269.4	264.6	8	48	83.9	89.5	41.5	41.2		
207	2.7	45.2	45.1	274.3	269.3	8	44	87.8	92.0	49.4	49.4	2.8	457
		47.4	47.3	272.0	268.3	8	54	86.4	91.0	47.3	47.1		
		49.5	49.6	271.6	267.3	9	4	85.0	90.0	45.1	44.9		
243	2.0	39.8	39.4	277.9	271.9	9	9	84.3	89.5	44.0	43.7	2.8	457
		41.9	41.6	276.3	270.7	9	19	82.8	88.4	41.9	41.5		
		44.1	43.9	274.8	269.7	9	29	81.2	87.2	39.7	39.2		
222	3.9	49.1	49.5	267.5	263.2	9	26	91.3	94.9	53.6	53.8	4.8	1345
		51.2	51.7	266.3	262.4	9	36	90.0	94.0	51.4	51.6		
		53.4	54.0	265.2	261.5	9	46	88.8	93.1	49.2	49.3		
222	3.9	52.5	53.1	265.6	261.9	9	42	92.9	96.1	57.0	57.4	5.1	510
		54.7	55.3	264.5	261.1	9	52	91.7	95.2	54.8	55.1		
		56.9	57.5	263.4	260.2	10	2	90.5	94.3	52.6	52.8		
226	3.8	57.7	57.7	271.7	268.6	9	58	89.6	92.2	61.9	62.0	4.6	1371
		59.9	60.0	270.5	267.6	10	8	88.3	91.2	59.7	59.7		
		62.0	62.2	269.2	266.6	10	18	87.0	90.2	57.6	57.5		
1171	5.4	55.3	54.9	276.8	273.4	10	9	84.2	87.1	59.6	59.3	4.3	523
		57.5	57.1	275.4	272.2	10	19	82.8	86.0	57.5	57.0		
		59.6	59.4	274.1	271.1	10	29	81.3	84.8	55.3	54.7		
266	4.3	51.9	51.3	278.5	274.6	10	24	82.0	85.4	56.4	55.9	4.3	523
		54.0	53.6	277.0	273.4	10	34	80.6	84.2	54.3	53.6		
		56.2	55.8	275.6	272.2	10	44	79.0	82.9	52.1	51.4		
257	1.6	54.7	54.8	270.1	266.6	10	38	91.3	94.3	58.9	59.2	2.9	548
		56.9	57.1	268.9	265.7	10	48	90.1	93.3	56.8	56.9		
		59.0	59.4	267.7	264.7	10	58	88.8	92.4	54.6	54.6		
1202	5.1	45.8	45.2	279.1	274.2	10	53	82.0	86.3	50.0	49.5	4.6	1371
		47.9	47.5	277.5	273.0	11	3	80.5	85.1	47.9	47.3		
		50.1	49.7	276.1	271.9	11	13	78.9	83.8	45.8	45.0		
311	5.1	42.6	42.0	279.5	274.1	11	8	79.7	84.5	46.8	46.1	4.6	1371
		44.7	44.3	277.9	272.9	11	18	78.1	83.2	44.7	43.9		
		46.9	46.5	276.4	271.7	11	28	76.3	81.8	42.6	41.6		
293	4.1	58.6	53.9	280.2	276.6	11	18	82.6	85.6	59.0	58.5	2.7	564
		56.7	56.1	278.7	275.4	11	28	81.2	84.4	56.9	56.2		
		58.9	58.4	277.2	274.2	11	38	79.7	83.2	54.7	54.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-30	LAT-25	LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25	LAT-30	LAT-25		
288	4.5	52.9	53.7	263.6	259.9	11	29	95.2	98.4	57.4	58.0	5.0	1413
		55.1	55.9	262.5	259.1	11	39	94.1	97.5	55.2	55.7		
		57.2	58.1	261.5	259.4	11	49	92.9	96.6	53.1	53.5		
311	5.1	50.3	50.1	274.1	270.0	11	44	87.3	90.8	54.8	54.8	4.0	577
		52.5	52.4	272.8	268.9	11	54	85.9	89.7	52.7	52.5		
		54.7	54.7	271.5	267.9	12	4	84.5	88.7	50.5	50.2		
311	5.1	52.9	52.9	272.5	268.7	11	56	88.1	91.3	57.4	57.3	4.7	1417
		55.1	55.1	271.2	267.7	12	6	86.8	90.3	55.2	55.1		
		57.2	57.4	270.0	266.7	12	16	85.5	89.2	53.0	52.8		
1247	5.2	40.4	40.5	272.2	266.4	12	28	88.1	93.2	44.6	44.7	5.0	1413
		42.6	42.7	270.9	265.5	12	38	86.8	92.2	42.5	42.4		
		44.7	45.0	269.7	264.6	12	48	85.3	91.2	40.3	40.2		
364	5.0	43.9	43.2	280.9	275.7	12	38	82.3	86.8	48.3	47.8	4.7	1417
		46.1	45.5	279.3	274.5	12	48	80.7	85.6	46.2	45.6		
		48.2	47.7	277.8	273.3	12	58	79.1	84.3	44.0	43.3		
373	5.2	41.1	40.9	275.3	269.6	12	49	82.7	88.7	45.4	45.1	5.5	1419
		43.2	43.1	273.9	268.5	12	59	82.2	87.5	43.2	42.8		
		45.4	45.4	272.5	267.6	13	9	80.6	86.3	41.1	40.5		
373	5.2	45.2	45.2	272.6	267.7	13	8	88.3	92.5	49.7	49.7	5.0	624
		47.4	47.4	271.3	266.7	13	18	87.0	91.6	47.5	47.4		
		49.5	49.7	270.0	265.8	13	28	85.6	90.5	45.3	45.2		
1261	4.7	48.0	47.3	279.9	275.3	13	19	80.0	83.8	52.3	51.6	4.7	1438
		50.1	49.6	278.3	274.1	13	29	78.4	82.6	50.1	49.3		
		52.3	51.9	276.8	272.9	13	39	76.7	81.2	48.0	47.1		
1283	4.2	38.4	37.9	278.5	272.2	13	40	83.8	89.3	42.7	42.4	5.0	624
		40.6	40.2	276.9	271.7	13	50	82.3	88.2	40.6	40.2		
		42.7	42.5	275.4	270.7	14	0	80.7	87.0	38.5	37.9		
389	4.1	48.9	48.7	273.6	269.2	13	52	87.2	91.0	53.3	53.2	3.6	658
		51.0	51.0	272.3	268.2	14	2	85.9	89.9	51.1	50.9		
		53.2	53.3	271.0	267.2	14	12	84.5	88.8	48.9	48.6		
410	3.3	46.5	46.1	276.2	271.4	14	3	85.7	89.8	50.9	50.7	3.6	658
		48.6	48.4	274.7	270.3	14	13	84.3	88.7	48.7	48.4		
		50.8	50.7	273.3	269.2	14	23	82.8	87.6	46.6	46.2		
431	4.1	42.3	42.7	276.7	271.2	14	22	83.0	87.7	46.8	46.4	3.6	658
		44.5	44.2	275.2	270.1	14	32	81.5	86.5	44.6	44.1		
		46.6	46.5	273.8	269.0	14	42	79.8	85.3	42.5	41.9		
421	4.5	45.5	46.0	266.7	261.8	14	33	83.2	87.4	49.9	50.3	4.0	682
		47.7	48.3	265.5	261.1	14	43	82.1	86.6	47.7	48.1		
		49.9	50.5	264.5	260.2	14	53	80.9	85.7	45.5	45.8		
426	3.8	42.3	42.9	276.4	272.0	14	43	86.4	90.1	53.7	53.6	4.7	696
		51.5	51.2	274.9	270.9	14	53	85.0	89.0	51.6	51.3		
		53.6	53.5	273.6	269.9	15	3	83.6	87.9	49.4	49.1		
453	3.2	39.3	39.5	270.5	264.4	15	2	89.7	95.0	43.6	43.8	4.6	682
		41.4	41.7	269.2	263.6	15	12	88.5	94.1	41.4	41.5		
		43.6	44.0	268.0	262.8	15	22	87.1	93.2	39.3	39.3		
431	4.1	53.5	53.7	269.6	265.9	15	14	90.7	93.8	57.8	58.0	4.6	727
		55.7	56.0	268.4	265.0	15	24	89.5	92.9	55.6	55.7		
		57.9	58.3	267.2	264.1	15	34	88.2	91.9	53.5	53.5		
453	3.2	44.0	44.4	267.8	262.7	15	24	92.5	96.9	48.3	48.7	3.6	710
		46.2	46.7	266.6	261.9	15	34	91.3	96.1	46.2	46.5		
		48.3	48.9	265.5	261.1	15	44	90.1	95.2	44.0	44.2		
1311	4.0	53.1	53.3	269.0	265.2	15	33	91.1	94.2	57.6	57.9	5.5	1512
		55.2	55.6	267.7	264.3	15	43	89.8	93.3	55.5	55.6		
		57.4	57.8	266.6	263.4	15	53	88.6	92.3	53.3	53.3		
1301	4.9	53.3	53.6	268.8	265.1	15	34	91.0	94.1	57.9	58.1	5.1	1514
		55.5	55.8	267.6	264.2	15	44	89.7	93.1	55.7	55.8		
		57.6	58.1	266.5	263.3	15	54	88.5	92.2	53.5	53.6		
465	3.1	46.7	46.4	275.5	270.8	15	45	86.7	90.8	51.1	51.0	4.6	727
		48.9	48.7	274.1	269.7	15	55	85.3	89.7	48.9	48.7		
		51.0	51.0	272.7	268.7	16	5	83.9	88.6	46.8	46.4		
457	2.8	51.9	52.0	270.8	266.8	15	57	89.4	92.7	56.5	56.6	5.1	1522
		54.1	54.3	269.5	265.9	16	7	88.1	91.7	54.3	54.2		
		56.2	56.5	268.3	265.0	16	17	86.8	90.7	52.2	52.1		
457	2.8	54.7	54.9	269.1	265.6	16	10	89.9	92.9	59.0	59.1	3.3	762
		56.9	57.2	267.9	264.7	16	20	88.6	91.9	56.8	56.9		
		59.0	59.5	266.7	263.8	16	30	87.3	90.9	54.7	54.6		
1345	4.8	45.0	44.8	273.9	268.9	16	29	85.1	89.4	49.6	49.4	5.1	1522
		47.1	47.1	272.5	267.9	16	39	83.7	88.3	47.4	47.1		
		49.3	49.4	271.2	266.9	16	49	82.2	87.2	45.3	44.8		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-30	LAT-25	LAT-30	LAT-25					LAT-30	LAT-25	LAT-30	LAT-25
1335	4.9	57.2 59.3 61.5	56.6 58.8 61.1	278.5 277.0 275.6	275.2 274.0 272.9	16 16 17	43 53 3	83.8 82.4 81.0	86.6 85.4 84.2	61.4 59.3 57.1	61.0 58.7 56.5	4.8	1547
498	1.2	52.8 54.9 57.1	52.1 54.4 56.7	279.2 277.7 276.3	275.4 274.2 273.1	16 17 17	57 7 17	81.7 80.2 78.6	84.9 83.7 82.4	57.1 55.0 52.8	56.5 54.3 52.0	3.8	781
1345	4.8	53.8 56.0 58.2	54.1 56.4 58.6	268.6 267.4 266.2	265.0 264.0 263.2	17 17 17	10 20 30	92.2 91.0 89.8	95.3 94.4 93.4	58.4 56.2 54.0	56.7 56.4 54.2	4.3	1561
1345	4.8	56.6 58.8 61.0	57.0 59.3 61.5	267.0 265.9 264.7	263.8 262.9 262.0	17 17 17	23 33 43	92.9 91.7 90.5	95.6 94.7 93.7	61.2 59.1 56.9	61.6 56.3 57.1	3.0	819
1371	4.6	48.3 50.5 52.6	47.7 50.0 52.2	279.2 277.6 276.2	274.7 273.5 272.3	17 17 17	35 45 55	81.3 79.8 78.2	85.1 83.9 82.6	52.7 50.6 48.5	52.1 49.9 47.6	4.5	794
523	4.3	53.7 55.8 58.0	53.0 55.3 57.5	279.8 278.3 276.9	276.1 274.9 273.8	17 17 18	47 57 7	80.0 78.5 76.9	83.2 81.9 80.6	57.9 55.8 53.7	57.2 55.0 52.7	4.8	1569
559	4.7	39.4 41.6 43.8	39.3 41.5 43.8	275.1 273.6 272.3	269.0 268.0 267.1	18 18 18	0 10 20	84.0 82.5 80.8	89.2 88.1 86.9	43.9 41.7 39.6	43.6 41.3 39.0	4.2	1552
559	4.7	43.1 45.3 47.4	43.1 45.4 47.6	272.7 271.4 270.1	267.3 266.4 265.5	18 18 18	17 27 37	85.7 84.3 82.8	90.3 89.2 88.1	47.8 45.6 43.5	47.6 45.4 43.1	3.8	812
1413	5.1	40.0 42.1 44.3	39.8 42.1 44.3	274.9 273.5 272.1	268.9 267.9 267.0	18 18 18	32 42 52	83.6 82.0 80.4	88.7 87.5 86.3	44.6 42.4 40.3	44.2 42.0 39.7	3.8	812
548	2.9	54.7 56.9 59.0	54.7 57.0 59.3	271.1 269.9 268.6	267.6 266.6 265.7	18 18 19	42 52 2	91.2 90.0 88.7	94.2 93.3 92.3	58.9 56.7 54.6	59.1 56.9 54.6	3.5	866
564	2.7	55.0 57.1 59.3	54.2 56.5 58.8	280.2 278.7 277.2	276.6 275.4 274.3	18 19 19	55 5 15	80.8 79.3 77.7	83.7 82.5 81.2	59.5 57.4 55.3	58.9 56.6 54.4	3.8	864
564	2.7	57.1 59.3 61.4	56.5 58.8 61.0	278.7 277.2 275.9	275.4 274.3 273.1	19 19 19	5 15 25	84.1 82.8 81.3	86.9 85.7 84.5	61.6 59.5 57.3	61.2 59.0 56.7	4.5	1608
1409	4.8	55.2 57.4 59.5	54.6 56.9 59.1	279.0 277.6 276.1	275.5 274.3 273.2	19 19 19	15 25 35	82.8 81.3 79.8	85.7 84.5 83.3	59.5 57.3 55.2	59.0 56.7 54.5	4.5	1608
1409	4.8	55.5 57.6 59.7	54.8 57.1 59.4	278.9 277.4 276.0	275.4 274.2 273.1	19 19 19	16 26 36	83.6 82.2 80.7	86.5 85.4 84.2	59.7 57.5 55.4	59.2 57.0 54.7	5.2	1609
594	2.5	46.4 48.5 50.7	46.9 49.1 51.4	266.5 265.4 264.3	261.8 261.0 260.3	19 19 19	25 35 45	93.9 92.8 91.6	98.0 97.2 96.3	50.6 48.5 46.3	51.1 48.9 46.6	3.8	873
624	5.0	42.4 44.5 46.7	42.0 44.3 46.6	276.4 275.0 273.6	270.9 269.9 268.8	19 19 19	39 49 59	83.7 82.2 80.6	88.4 87.3 86.1	46.6 44.4 42.3	46.2 44.0 41.7	3.5	866
597	2.9	52.8 55.0 57.1	53.2 55.5 57.7	267.0 265.9 264.8	263.3 262.4 261.6	19 20 20	55 5 15	92.4 91.2 90.0	95.6 94.6 93.7	57.4 55.2 53.1	57.8 55.5 53.2	4.6	905
597	2.9	57.1 59.3 61.4	57.7 59.9 62.2	264.8 263.6 262.5	261.6 260.7 259.9	20 20 20	15 25 35	95.4 94.2 93.1	99.1 97.2 96.3	61.4 59.3 57.1	62.0 59.8 57.5	2.2	22
658	3.6	42.3 44.5 46.6	41.7 43.9 46.2	280.3 278.7 277.1	274.8 273.6 272.4	20 20 20	30 40 50	81.7 80.1 78.4	86.4 85.2 83.9	46.5 44.4 42.3	46.0 43.8 41.5	4.6	894
1457	4.3	47.3 49.5 51.6	48.1 50.3 52.5	263.7 262.6 261.6	259.2 258.5 257.8	20 21 21	58 8 18	95.2 94.1 93.0	99.1 98.3 97.5	51.6 49.5 47.3	52.3 50.0 47.8	5.5	1018
682	4.0	42.9 45.1 47.2	43.1 45.4 47.6	270.7 269.4 268.2	265.3 264.4 263.6	21 21 21	20 30 40	87.5 86.1 84.7	92.1 91.1 90.1	47.4 45.2 43.0	47.3 45.1 42.8	2.2	22
673	3.5	53.7 55.8 58.0	52.9 55.2 57.4	280.4 278.9 277.5	276.8 275.5 274.3	21 21 21	32 42 52	80.6 79.1 77.5	83.7 82.5 81.2	58.0 55.9 53.8	57.4 55.1 52.9	3.8	47
696	4.7	55.0 57.2 59.3	54.9 57.2 59.5	272.8 271.5 270.2	269.3 268.3 267.3	22 22 22	19 29 39	86.8 85.5 84.1	89.8 88.7 87.6	59.3 57.1 55.0	59.1 56.9 54.6	4.9	1066

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.		LAT-30	LAT-25	HRS	MIN	LAT-30	LAT-25	Z. D.			
		LAT-30	LAT-25							LAT-30	LAT-25		
1512	5.5	41.6	41.1	279.2	273.6	22	32	83.3	88.2	45.8	45.4	3.7	59
		43.8	43.3	277.6	272.4	22	42	81.8	87.0	43.6	43.1		
		45.9	45.6	276.1	271.3	22	52	80.2	85.8	41.5	40.9		
1514	5.1	41.3	40.7	279.8	274.1	22	32	83.3	88.2	45.8	45.4	3.7	59
		43.5	43.0	278.1	272.8	22	42	81.8	87.0	43.6	43.1		
		45.6	45.2	276.6	271.7	22	52	80.2	85.8	41.5	40.9		
710	3.6	51.3	51.9	265.9	262.0	22	43	96.3	99.6	55.8	56.5	4.8	102
		53.5	54.1	264.8	261.2	22	53	95.2	98.8	53.7	54.3		
		55.6	56.3	263.7	260.4	23	3	94.1	98.0	51.5	52.0		
727	4.6	50.6	50.5	273.6	269.5	22	54	86.2	89.8	54.9	54.8	4.4	97
		52.8	52.7	272.2	268.4	23	4	84.9	89.7	52.8	52.5		
		54.9	55.0	270.9	267.4	23	14	83.5	87.6	50.6	50.2		
1522	5.1	45.2	44.7	277.9	272.9	23	4	84.8	89.1	49.5	49.3	4.8	1071
		47.3	46.9	276.4	271.8	23	14	83.3	87.9	47.4	47.0		
		49.5	49.2	275.0	270.7	23	24	81.8	86.8	45.2	44.7		
722	5.1	55.2	55.6	266.8	263.3	23	17	93.7	96.6	59.7	60.1	5.3	1100
		57.4	57.9	265.6	262.5	23	27	92.6	95.7	57.5	57.9		
		59.5	60.1	264.5	261.6	23	37	91.4	94.8	55.3	55.6		
773	5.3	40.1	39.7	277.2	271.2	23	28	81.2	86.3	44.4	43.8	4.8	1071
		42.2	42.0	275.7	270.2	23	38	79.5	85.1	42.3	41.6		
		44.4	44.3	274.2	269.1	23	48	77.8	83.9	40.1	39.3		
1522	5.1	54.9	54.9	271.6	268.1	23	49	88.3	91.3	59.2	59.2	3.2	149
		57.0	57.1	270.3	267.1	23	59	87.0	90.3	57.0	56.9		
		59.2	59.4	269.1	266.1	24	9	85.7	89.2	54.9	54.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20		
762	3.3	52.2	52.3	270.2	266.4	23	59	90.3	93.5	56.9	57.1	3.2	149
		54.4	54.6	269.2	265.6	0	9	89.2	92.8	54.6	54.7		
		56.7	57.0	268.2	264.9	0	19	88.1	92.0	52.4	52.4		
794	4.5	45.4	44.8	278.8	273.8	0	12	81.1	85.4	49.9	49.3	3.8	127
		47.6	47.2	277.4	272.8	0	22	79.7	84.3	47.6	46.9		
		49.9	49.5	276.1	271.9	0	32	78.3	83.2	45.4	44.6		
1547	4.8	52.6	52.1	277.9	274.1	0	23	81.8	85.0	57.2	56.7	4.1	154
		54.9	54.5	276.6	273.1	0	33	80.5	84.0	55.0	54.3		
		57.1	56.8	275.4	272.2	0	43	79.2	83.0	52.8	52.0		
819	3.0	42.2	42.1	273.2	267.7	0	43	85.3	90.0	47.0	46.7	3.2	149
		44.4	44.5	272.0	266.9	0	53	84.1	89.1	44.7	44.4		
		46.7	46.8	270.9	266.2	1	3	82.7	88.2	42.4	42.0		
1552	4.2	54.7	55.3	265.8	262.4	0	59	94.7	97.6	59.4	59.9	3.3	1144
		57.0	57.6	264.9	261.7	1	9	93.8	97.0	57.1	57.6		
		59.3	59.9	264.0	261.1	1	19	92.8	96.3	54.8	55.2		
808	3.1	55.7	54.9	280.8	277.3	1	9	81.2	84.1	60.2	59.6	2.9	188
		57.9	57.2	279.4	276.3	1	19	79.9	83.0	58.0	57.3		
		60.1	59.6	278.2	275.3	1	29	78.6	82.0	55.8	54.9		
818	5.4	52.1	51.9	274.9	271.0	1	19	84.0	87.3	56.7	56.4	4.3	190
		54.4	54.2	273.7	270.1	1	29	82.8	86.4	54.5	54.0		
		56.7	56.6	272.5	269.2	1	39	81.5	85.4	52.2	51.7		
812	3.8	55.1	55.6	266.4	263.0	1	34	93.1	96.0	59.6	60.0	3.7	219
		57.4	57.9	265.5	262.3	1	44	92.1	95.3	57.4	57.7		
		59.6	60.2	264.5	261.7	1	54	91.1	94.6	55.1	55.3		
1591	4.9	48.1	47.6	278.1	273.6	1	44	80.9	84.7	52.6	51.9	0.3	194
		50.3	49.9	276.8	272.6	1	54	79.5	83.7	50.3	49.6		
		52.6	52.3	275.5	271.7	2	4	78.1	82.6	48.1	47.3		
861	4.2	45.7	44.7	275.6	270.6	1	54	86.1	90.4	49.5	49.3	4.3	1146
		47.2	47.0	274.3	269.7	2	4	84.9	89.6	47.2	47.0		
		49.5	49.4	273.1	268.9	2	14	83.7	88.7	45.0	44.6		
828	4.4	57.3	57.6	269.0	265.8	2	6	90.1	92.7	62.0	62.1	5.4	1171
		59.6	59.9	268.0	265.1	2	16	89.0	91.9	59.7	59.8		
		61.9	62.2	267.0	264.3	2	26	87.9	91.1	57.5	57.4		
866	3.5	48.0	48.1	270.7	266.2	2	16	89.0	92.8	52.5	52.6	3.8	226
		50.3	50.5	269.6	265.5	2	26	87.9	92.1	50.2	50.2		
		52.5	52.8	268.6	264.8	2	36	86.7	91.3	47.9	47.9		
1621	5.3	38.7	38.9	271.4	265.2	2	28	89.8	95.1	43.2	43.4	2.7	207
		41.0	41.2	270.3	264.6	2	38	88.7	94.5	40.9	41.1		
		43.2	43.5	269.3	264.0	2	48	87.6	93.8	38.7	38.7		
1608	4.5	57.7	50.1	278.8	274.7	2	38	81.9	85.4	55.2	54.7	5.1	1170
		53.0	52.5	277.5	273.7	2	48	80.6	84.4	53.0	52.4		
		55.2	54.8	276.3	272.8	2	58	79.2	83.3	50.8	50.0		
966	3.5	55.2	55.6	267.4	264.0	2	48	94.2	97.1	60.0	60.5	4.1	271
		57.5	58.0	266.4	263.3	2	58	93.2	96.4	57.7	58.1		
		59.8	60.3	265.5	262.6	3	8	92.3	95.7	55.5	55.8		
1621	5.3	47.1	47.5	267.6	263.0	3	5	92.0	95.9	51.6	51.9	1.6	257
		49.4	49.8	266.7	262.4	3	15	91.0	95.2	49.3	49.6		
		51.6	52.2	265.7	261.8	3	25	89.9	94.6	47.0	47.2		
1621	5.3	49.4	49.8	266.7	262.4	3	15	91.6	95.2	53.9	54.2	4.1	271
		51.6	52.2	265.7	261.8	3	25	90.5	94.5	51.6	51.8		
		53.9	54.5	264.8	261.2	3	35	89.5	93.8	49.3	49.5		
894	4.6	55.0	55.2	269.2	265.7	3	33	92.8	95.6	59.7	60.1	5.1	1202
		57.3	57.5	268.2	265.0	3	43	91.7	94.9	57.5	57.8		
		59.5	59.9	267.2	264.3	3	53	90.7	94.2	55.2	55.4		
22	2.2	42.6	42.8	270.1	264.6	3	44	88.5	93.1	47.3	47.4	4.1	271
		44.8	45.1	269.0	264.0	3	54	87.3	92.3	45.0	45.0		
		47.1	47.5	268.0	263.4	4	4	86.2	91.6	42.8	42.7		
905	4.6	55.2	55.7	265.5	262.1	3	59	94.2	97.1	59.6	60.1	5.1	311
		57.4	58.0	264.6	261.4	4	9	93.2	96.4	57.4	57.8		
		59.7	60.4	263.7	260.8	4	19	92.3	95.7	55.1	55.4		
40	3.6	46.7	46.1	279.7	275.0	4	15	81.8	85.9	51.1	50.5	4.1	293
		49.0	48.4	278.3	273.9	4	25	80.5	84.8	48.8	48.2		
		51.2	50.8	277.0	273.0	4	35	79.0	83.8	46.6	45.9		
59	3.7	41.0	40.9	274.1	268.3	4	35	86.1	91.0	45.7	45.6	5.1	1202
		43.3	43.3	272.9	267.6	4	45	84.8	90.1	43.4	43.2		
		45.6	45.6	271.7	266.8	4	55	83.5	89.2	41.2	40.9		
71	4.2	39.3	39.9	266.6	260.6	4	50	91.1	96.2	44.2	44.5	4.6	1212
		41.6	42.2	265.7	260.2	5	0	90.0	95.6	41.9	42.2		
		43.9	44.5	264.8	259.7	5	10	88.9	95.0	39.7	39.8		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20	LAT-25	LAT-20		
59	3.7	54.0	54.3	267.8	264.2	5	32	92.0	95.0	58.8	59.1	5.0	364
		56.2	56.6	266.9	263.5	5	42	91.0	94.3	56.5	56.7		
		58.5	59.0	265.9	262.9	5	52	89.9	93.5	54.2	54.4		
1071	4.8	48.8	48.8	271.2	266.8	5	56	89.5	93.2	53.3	53.4	5.0	364
		51.0	51.2	270.1	266.1	6	6	88.4	92.4	51.1	51.1		
		53.3	53.5	269.1	265.4	6	16	87.3	91.7	48.8	48.7		
1066	4.9	53.7	53.6	272.8	269.1	6	7	89.3	92.4	58.4	58.5	3.8	381
		56.0	56.0	271.7	268.3	6	17	88.2	91.6	56.1	56.1		
		58.2	58.3	270.6	267.5	6	27	87.1	90.8	53.9	53.8		
97	4.4	51.5	51.5	271.8	267.8	6	18	88.1	91.5	55.9	55.9	3.8	381
		53.8	53.9	270.7	267.0	6	28	87.0	90.7	53.7	53.6		
		56.0	56.2	269.6	266.3	6	38	85.8	89.8	51.4	51.2		
1091	4.9	50.6	50.0	279.3	275.2	6	37	81.9	85.5	54.9	54.4	5.4	1263
		52.9	52.3	278.0	274.2	6	47	80.6	84.4	52.7	52.0		
		55.1	54.7	276.7	273.2	6	57	79.2	83.4	50.5	49.7		
149	3.2	42.4	42.0	277.3	271.8	6	51	84.5	89.1	47.0	46.7	4.7	1261
		44.7	44.4	276.0	270.9	7	1	83.2	88.2	44.7	44.3		
		46.9	46.7	274.7	270.0	7	11	81.8	87.3	42.5	42.0		
1100	5.3	48.7	49.0	269.1	263.8	7	3	91.9	95.6	53.2	53.5	3.3	410
		50.9	51.3	267.2	263.1	7	13	90.9	94.9	50.9	51.2		
		53.2	53.7	266.2	262.5	7	23	89.8	94.2	48.7	48.9		
172	4.0	38.5	38.0	278.5	272.2	7	15	81.0	86.4	43.1	42.5	3.8	381
		40.7	40.4	277.1	271.2	7	25	79.6	85.4	40.8	40.2		
		43.0	42.7	275.7	270.3	7	35	78.0	84.2	38.6	37.8		
135	3.7	55.8	55.5	275.1	271.7	7	29	87.0	89.9	60.3	60.2	4.8	1299
		58.0	57.8	274.0	270.8	7	39	85.9	89.0	58.1	57.8		
		60.3	60.2	272.8	270.0	7	49	84.7	88.1	55.8	55.5		
1144	3.3	37.8	37.6	275.6	269.1	7	50	86.8	92.3	42.6	42.5	3.3	410
		40.1	40.0	274.3	268.3	8	0	85.6	91.5	40.3	40.2		
		42.4	42.3	273.1	267.6	8	10	84.3	90.7	38.0	37.8		
1144	3.3	41.5	41.4	273.6	267.9	8	6	86.5	91.3	46.2	46.1	3.8	426
		43.7	43.7	272.4	267.1	8	16	85.3	90.5	43.9	43.7		
		46.0	46.1	271.2	266.4	8	26	84.0	89.7	41.6	41.4		
207	2.7	39.2	39.3	272.1	266.0	8	18	89.7	94.9	43.7	43.9	4.1	431
		41.4	41.6	271.0	265.4	8	28	88.6	94.2	41.5	41.6		
		43.7	43.9	269.9	264.7	8	38	87.4	93.6	39.2	39.2		
207	2.7	42.8	43.0	270.4	265.0	8	34	90.6	95.2	47.3	47.6	5.2	1309
		45.1	45.3	269.3	264.3	8	44	89.5	94.5	45.1	45.2		
		47.3	47.7	268.3	263.7	8	54	88.4	93.8	42.8	42.9		
207	2.7	45.1	45.3	269.3	264.3	8	44	92.0	96.3	49.4	49.8	2.8	457
		47.3	47.7	268.3	263.7	8	54	91.0	95.7	47.1	47.4		
		49.6	50.0	267.3	263.1	9	4	90.0	95.0	44.9	45.1		
195	3.7	57.1	56.6	278.3	275.0	9	4	82.4	95.1	61.7	61.1	4.5	490
		59.4	58.9	277.1	274.1	9	14	81.1	94.1	59.4	58.8		
		61.6	61.2	275.8	273.1	9	24	79.9	93.1	57.2	56.5		
243	2.0	41.0	41.1	271.1	265.3	9	16	88.9	93.7	45.7	45.8	3.1	465
		43.2	43.5	270.0	264.7	9	26	87.7	93.0	43.4	43.4		
		45.5	45.8	268.9	264.1	9	36	86.6	92.3	41.1	41.1		
1171	5.4	46.1	45.6	278.2	273.4	9	30	81.5	85.6	50.7	50.1	4.9	1335
		48.3	47.9	276.9	272.4	9	40	80.1	84.5	48.4	47.7		
		50.6	50.3	275.6	271.5	9	50	78.7	83.5	46.2	45.4		
1171	5.4	49.2	48.9	276.4	272.0	9	44	85.5	89.1	53.8	53.5	1.2	498
		51.5	51.2	275.1	271.1	9	54	84.2	88.2	51.5	51.2		
		53.7	53.6	273.9	270.3	10	4	83.0	87.3	49.3	48.9		
1171	5.4	51.5	51.2	275.1	271.1	9	54	83.5	86.9	56.2	55.8	5.2	1355
		53.7	53.6	273.9	270.3	10	4	82.2	85.9	54.0	53.5		
		56.0	55.9	272.9	269.4	10	14	80.9	84.9	51.7	51.1		
1170	5.1	57.2	56.7	277.0	273.8	10	8	83.1	85.8	61.9	61.5	4.2	525
		59.4	59.0	275.8	272.8	10	18	81.9	84.8	59.7	59.1		
		61.7	61.4	274.6	271.9	10	28	80.6	83.8	57.5	56.8		
243	2.0	57.0	57.7	264.1	260.9	10	27	95.3	99.0	61.6	62.2	2.9	548
		59.3	60.0	263.2	260.3	10	37	94.4	97.3	59.4	59.9		
		61.5	62.3	262.3	259.7	10	47	93.4	96.6	57.1	57.6		
257	1.6	54.6	55.1	266.7	263.2	10	37	94.4	97.3	59.4	59.0	2.9	548
		56.9	57.4	265.8	262.5	10	47	93.4	96.6	57.1	57.6		
		59.1	59.7	264.8	261.9	10	57	92.5	95.9	54.9	55.2		
1202	5.1	45.0	44.8	274.3	269.3	10	52	86.4	90.7	49.8	49.6	4.6	1371
		47.3	47.2	273.1	268.5	11	2	85.2	89.8	47.5	47.3		
		49.5	49.5	272.0	267.7	11	12	83.9	88.9	45.2	44.9		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z.D.		AZ			Z.D.		AZ				
		LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20	LAT-25	LAT-20		
311	5.1	41.8	41.6	274.2	268.6	11	7	84.6	89.4	46.4	46.1	4.6	1371
		44.0	44.0	273.0	267.8	11	17	83.3	88.5	44.1	43.8		
		46.3	46.3	271.8	267.1	11	27	81.9	87.5	41.9	41.4		
293	4.1	53.9	53.4	276.6	272.9	11	18	85.6	88.7	58.5	58.2	2.7	564
		56.1	55.8	275.4	272.0	11	28	84.4	87.8	56.2	55.9		
		58.4	58.1	274.2	271.1	11	38	83.2	86.9	54.0	53.6		
311	5.1	50.1	50.3	270.0	265.8	11	44	90.8	94.3	54.8	55.0	4.0	577
		52.4	52.7	268.9	265.1	11	54	89.7	93.6	52.5	52.6		
		54.7	55.0	267.9	264.4	12	4	88.7	92.8	50.2	50.3		
311	5.1	52.9	53.1	268.7	265.0	11	56	91.3	94.5	57.3	57.6	4.7	1417
		55.1	55.5	267.7	264.3	12	6	90.3	93.8	55.1	55.3		
		57.4	57.8	266.7	263.6	12	16	89.2	93.0	52.8	52.9		
1247	5.2	40.2	40.8	266.5	260.6	12	27	93.3	98.2	44.9	45.4	5.0	1413
		42.5	43.1	265.6	260.2	12	37	92.3	97.7	42.7	43.1		
		44.7	45.4	264.7	259.8	12	47	91.3	97.2	40.4	40.8		
364	5.0	43.2	42.9	275.7	270.4	12	38	86.8	91.3	47.8	47.7	4.7	1417
		45.5	45.3	274.5	269.5	12	48	85.6	90.5	45.6	45.4		
		47.7	47.6	273.3	268.7	12	58	84.3	89.6	43.3	43.1		
373	5.2	40.6	40.9	269.7	263.9	12	48	88.8	93.7	45.3	45.4	5.5	1419
		42.9	43.3	268.6	263.3	12	58	87.6	93.0	43.0	43.0		
		45.2	45.6	267.7	262.7	13	8	86.5	92.3	40.8	40.7		
373	5.2	45.2	45.6	267.7	262.7	13	8	92.5	96.7	49.7	50.1	5.0	624
		47.4	47.9	266.7	262.2	13	18	91.6	96.1	47.4	47.8		
		49.7	50.3	265.8	261.6	13	28	90.5	95.5	45.2	45.4		
381	3.8	46.6	46.2	276.8	272.1	13	20	83.7	87.7	51.3	51.0	4.7	1438
		48.9	48.6	275.5	271.1	13	30	82.4	86.8	49.1	48.6		
		51.1	50.9	274.3	270.3	13	40	81.1	85.8	46.8	46.3		
1283	4.2	37.9	38.0	272.2	265.8	13	40	89.3	94.7	42.4	42.6	5.0	624
		40.2	40.4	271.0	265.1	13	50	88.2	94.1	40.2	40.3		
		42.5	42.7	270.0	264.5	14	0	87.0	93.4	37.9	37.9		
389	4.1	48.7	49.0	269.2	264.9	13	52	91.0	94.7	53.2	53.4	3.6	658
		51.0	51.3	268.2	264.2	14	2	89.9	94.0	50.9	51.1		
		53.3	53.7	267.2	263.5	14	12	88.8	93.2	48.6	48.7		
410	3.3	46.1	46.2	271.4	266.6	14	3	89.8	93.9	50.7	50.8	3.6	658
		48.4	48.6	270.3	265.9	14	13	88.7	93.2	48.4	48.5		
		50.7	50.9	269.2	265.2	14	23	87.6	92.4	46.2	46.2		
389	4.1	54.6	55.1	266.6	263.1	14	18	92.6	95.6	59.3	59.6	4.7	696
		56.9	57.4	265.7	262.5	14	28	91.6	94.8	57.0	57.3		
		59.2	59.7	264.7	261.8	14	38	90.6	94.1	54.7	54.9		
410	3.3	52.0	52.3	268.6	264.8	14	29	91.5	94.8	56.8	57.0	4.7	696
		54.3	54.6	267.6	264.1	14	39	90.5	94.0	54.5	54.7		
		56.5	57.0	266.7	263.4	14	49	89.4	93.3	52.2	52.4		
426	3.8	48.9	49.0	272.0	267.7	14	43	90.1	93.7	53.6	53.8	4.7	696
		51.2	51.3	270.9	266.9	14	53	89.0	93.0	51.3	51.4		
		53.5	53.6	269.9	266.2	15	3	87.9	92.2	49.1	49.1		
1283	4.2	56.3	56.9	264.1	260.8	15	1	95.1	97.8	60.9	61.5	4.6	727
		58.5	59.2	263.2	260.2	15	11	94.1	97.1	58.7	59.1		
		60.8	61.6	262.3	259.6	15	21	93.2	96.4	56.4	56.8		
431	4.1	53.5	54.0	266.0	262.4	15	13	93.9	97.0	58.2	58.7	4.6	727
		55.8	56.3	265.1	261.7	15	23	93.0	96.3	55.9	56.3		
		58.0	58.7	264.2	261.1	15	33	92.0	95.6	53.7	54.0		
1301	4.9	51.1	51.6	266.1	262.2	15	23	93.0	96.3	55.9	56.3	4.6	727
		53.3	53.9	265.2	261.6	15	33	92.0	95.6	53.7	54.0		
		55.6	56.2	264.3	260.9	15	43	91.0	94.9	51.4	51.7		
1301	4.9	53.3	53.9	265.2	261.6	15	33	94.2	97.3	57.9	58.4	5.5	1512
		55.6	56.2	264.3	260.9	15	43	93.3	96.6	55.6	56.0		
		57.8	58.6	263.4	260.3	15	53	92.3	96.0	53.3	53.7		
1301	4.9	53.6	54.1	265.1	261.5	15	34	94.1	97.2	58.1	58.6	5.1	1514
		55.8	56.5	264.2	260.9	15	44	93.1	96.5	55.8	56.3		
		58.1	58.8	263.3	260.3	15	54	92.2	95.8	53.6	53.9		
465	3.1	46.4	46.6	270.8	266.0	15	45	90.8	94.8	51.0	51.2	4.6	727
		48.7	48.9	269.7	265.3	15	55	89.7	94.1	48.7	48.9		
		51.0	51.3	268.7	264.6	16	5	88.6	93.4	46.4	46.5		
457	2.8	52.0	52.4	266.8	263.0	15	57	92.7	95.9	56.6	57.0	5.1	1522
		54.3	54.8	265.9	262.3	16	7	91.7	95.2	54.3	54.6		
		56.5	57.1	265.0	261.7	16	17	90.7	94.5	52.1	52.3		
457	2.8	54.7	55.2	265.7	262.2	16	9	93.0	95.9	59.4	59.7	3.3	762
		57.0	57.6	264.8	261.6	16	19	92.0	95.2	57.1	57.4		
		59.2	59.9	263.9	260.9	16	29	91.0	94.5	54.8	55.1		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNC
		Z.D.	Z.D.	LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20		
1345	4.8	42.6	42.8	269.9	264.5	16	19	89.6	94.2	47.4	47.6	5.5	1512
		44.8	45.2	268.9	263.9	16	29	88.5	93.5	45.2	45.3		
		47.1	47.5	267.9	263.3	16	39	87.4	92.8	42.9	42.9		
1345	4.8	42.8	43.1	269.8	264.4	16	20	89.5	94.0	47.7	47.8	5.1	1514
		45.1	45.4	268.8	263.8	16	30	88.4	93.3	45.4	45.5		
		47.3	47.7	267.8	263.2	16	40	87.2	92.6	43.2	43.1		
1345	4.8	44.8	45.2	268.9	263.9	16	29	89.4	93.7	49.4	49.5	5.1	1522
		47.1	47.5	267.9	263.3	16	39	88.3	92.9	47.1	47.1		
		49.4	49.8	266.9	262.7	16	49	87.2	92.2	44.8	44.8		
1335	4.9	56.6	56.3	275.2	271.9	16	43	86.6	89.4	61.0	60.8	4.8	1547
		58.8	58.6	274.0	271.0	16	53	85.4	88.5	58.7	58.5		
		61.1	61.0	272.9	270.1	17	3	84.2	87.6	56.5	56.1		
498	1.2	51.9	51.6	275.5	271.6	16	56	85.0	88.3	56.7	56.4	3.8	781
		54.2	54.7	274.3	270.7	17	6	83.8	87.4	54.5	54.1		
		56.4	56.3	273.2	269.8	17	16	82.6	86.5	52.2	51.8		
1371	4.6	41.6	41.2	278.2	272.6	17	8	83.5	88.3	46.1	45.8	3.8	761
		43.9	43.5	276.9	271.6	17	18	82.4	87.3	43.9	43.4		
		46.1	45.9	275.6	270.7	17	28	80.7	86.3	41.7	41.1		
1371	4.6	41.6	41.2	278.2	272.6	17	8	83.4	88.2	46.1	45.7	4.6	1527
		43.9	43.5	276.9	271.6	17	18	82.0	87.2	43.8	43.4		
		46.1	45.9	275.6	270.7	17	28	80.6	86.2	41.6	41.0		
1345	4.8	56.1	56.8	264.1	260.8	17	19	95.9	98.7	60.7	61.4	3.8	812
		59.4	59.1	263.2	260.2	17	29	95.0	98.0	58.5	59.1		
		60.6	61.4	262.4	259.6	17	39	94.1	97.4	56.2	56.7		
1355	5.2	56.6	56.2	276.3	273.0	17	29	85.3	88.1	61.3	61.0	4.8	1569
		58.9	58.6	275.1	272.0	17	39	84.1	87.2	59.0	58.6		
		61.2	60.9	273.9	271.2	17	49	82.9	86.2	56.7	56.3		
1371	4.6	49.1	48.9	274.0	269.6	17	41	87.9	91.6	53.5	53.5	5.5	1562
		51.3	51.3	272.8	268.8	17	51	86.7	90.8	51.2	51.1		
		53.6	53.6	271.7	268.0	18	1	85.6	89.9	49.0	48.8		
1371	4.6	51.8	51.7	272.6	268.6	17	53	87.3	90.7	56.4	56.3	5.4	818
		54.0	54.1	271.4	267.8	18	3	86.2	89.8	54.2	54.0		
		56.3	56.4	270.4	267.0	18	13	85.0	88.9	51.9	51.6		
523	4.3	57.3	57.1	273.9	270.7	18	6	85.5	88.2	61.8	61.5	4.3	847
		59.6	59.5	272.7	269.8	18	16	84.3	87.3	59.5	59.1		
		61.8	61.8	271.6	269.0	18	26	83.1	86.3	57.2	56.8		
559	4.7	43.1	43.6	267.3	262.1	18	17	90.3	94.8	47.6	47.9	3.8	812
		45.4	45.9	266.4	261.5	18	27	89.2	94.2	45.4	45.5		
		47.6	48.2	265.5	261.0	18	37	88.1	93.5	43.1	43.2		
1394	5.4	52.1	51.5	279.1	275.1	18	28	82.9	86.1	56.8	56.3	4.3	840
		54.4	53.9	277.7	274.1	18	38	81.6	85.2	54.5	54.0		
		56.6	56.2	276.5	273.2	18	48	80.3	84.1	52.3	51.6		
548	2.9	54.5	54.9	267.7	264.2	18	41	91.4	94.4	59.0	59.3	4.2	861
		56.8	57.2	266.7	263.5	18	51	90.4	93.6	56.7	56.9		
		59.0	59.5	265.8	262.9	19	1	89.3	92.9	54.5	54.6		
1417	4.7	42.2	41.8	276.4	270.8	18	51	85.9	90.6	46.9	46.7	4.4	828
		44.4	44.2	275.1	270.0	19	1	84.6	89.7	44.6	44.4		
		46.7	46.5	273.9	269.1	19	11	83.3	88.8	42.4	42.0		
577	4.0	49.6	49.6	271.6	267.4	19	2	89.2	92.8	54.2	54.3	4.2	861
		51.9	52.0	270.6	266.6	19	12	88.1	92.0	52.0	52.0		
		54.1	54.3	269.5	265.9	19	22	87.0	91.2	49.7	49.6		
1417	4.7	47.1	47.0	273.6	269.0	19	13	88.0	91.9	51.7	51.7	4.2	861
		49.4	49.4	272.4	268.2	19	23	86.9	91.1	49.5	49.4		
		51.7	51.7	271.3	267.4	19	33	85.7	90.3	47.2	47.1		
577	4.0	55.5	55.7	268.0	265.5	19	28	93.1	95.9	60.1	60.4	4.6	894
		57.7	58.1	267.9	264.7	19	38	92.1	95.2	57.8	58.1		
		60.0	60.4	266.9	264.0	19	48	91.1	94.5	55.5	55.8		
624	5.0	41.8	42.0	271.0	265.5	19	38	88.5	93.3	46.5	46.5	3.5	866
		44.1	44.3	270.0	264.8	19	48	87.4	92.6	44.2	44.2		
		46.3	46.6	268.9	264.2	19	58	86.2	91.8	41.9	41.8		
597	2.9	53.2	54.0	263.3	259.6	19	55	95.6	98.7	57.8	58.4	4.6	905
		55.5	56.3	262.4	259.1	20	5	94.6	98.0	55.5	56.0		
		57.7	58.6	261.6	258.5	20	15	93.7	97.4	53.2	53.7		
624	5.0	43.5	49.9	267.5	263.3	20	12	94.0	97.6	53.9	54.4	4.6	905
		51.8	52.2	266.6	262.7	20	22	93.0	96.9	51.7	52.1		
		54.0	54.6	265.6	262.1	20	32	92.1	96.3	49.4	49.8		
658	3.6	41.7	41.5	274.8	269.2	20	30	86.4	91.3	46.6	45.9	4.6	894
		43.9	43.8	273.6	268.4	20	40	85.2	90.5	43.8	43.6		
		46.2	46.2	272.4	267.6	20	50	83.9	89.6	41.5	41.2		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D. LAT-25	LAT-20	LAT-25	LAT-20	HRS	MIN	LAT-25	LAT-20	Z. D. LAT-25	LAT-20		
682	4.0	42.9	43.5	265.4	260.1	21	19	92.2	96.7	47.6	48.0	2.2	22
		45.1	45.8	264.5	259.7	21	29	91.2	96.1	45.3	45.6		
		47.4	48.1	263.7	259.2	21	39	90.2	95.5	43.0	43.3		
673	3.5	52.9	52.5	276.8	273.0	21	32	83.7	86.9	57.4	56.9	3.8	47
		55.2	54.9	275.5	272.0	21	42	82.5	86.0	55.1	54.6		
		57.4	57.2	274.3	271.1	21	52	81.2	85.0	52.9	52.3		
1486	4.7	48.2	47.5	280.5	276.1	21	53	81.0	84.9	52.6	52.0	3.8	47
		50.5	49.9	279.2	275.0	22	3	79.7	83.8	50.4	49.7		
		52.7	52.2	277.8	274.0	22	13	78.2	82.7	48.2	47.4		
696	4.7	54.7	54.9	269.4	265.9	22	18	89.9	92.9	59.4	59.5	4.9	1066
		57.0	57.2	268.4	265.2	22	28	88.9	92.1	57.1	57.1		
		59.2	59.6	267.4	264.4	22	38	87.8	91.3	54.8	54.8		
1512	5.5	41.1	41.0	273.6	267.8	22	32	88.2	93.1	45.4	45.5	3.7	59
		43.3	43.4	272.4	267.1	22	42	87.0	92.4	43.1	43.1		
		45.6	45.7	271.3	266.4	22	52	85.8	91.6	40.9	40.8		
1514	5.1	40.7	40.6	274.1	268.2	22	32	88.2	93.1	45.4	45.5	3.7	59
		43.0	43.0	272.8	267.5	22	42	87.0	92.4	43.1	43.1		
		45.2	45.3	271.7	266.7	22	52	85.8	91.6	40.9	40.8		
727	4.6	48.7	48.8	270.3	265.9	22	46	91.0	94.7	53.4	53.6	4.8	1071
		50.9	51.2	269.3	265.2	22	56	89.9	93.9	51.1	51.3		
		53.2	53.5	268.2	264.5	23	6	88.8	93.2	48.8	48.9		
1512	5.5	46.5	46.6	270.8	266.1	22	56	89.9	93.9	51.1	51.3	4.8	1071
		48.8	49.0	269.8	265.4	23	6	88.8	93.2	48.8	48.9		
		51.0	51.3	268.7	264.7	23	16	87.7	92.5	46.6	46.6		
1514	5.1	46.4	46.5	271.1	266.4	22	57	89.8	93.9	50.9	51.0	4.9	1071
		48.6	48.8	270.1	265.7	23	7	88.7	93.1	48.6	48.7		
		50.9	51.2	269.0	265.0	23	17	87.6	92.4	46.3	46.3		
1522	5.1	46.3	46.3	272.1	267.3	23	11	87.9	92.0	50.9	50.9	4.4	97
		48.5	48.6	271.0	266.6	23	21	86.8	91.2	48.6	48.5		
		50.8	51.0	269.9	265.9	23	31	85.6	90.4	46.4	46.2		
762	3.3	43.8	43.6	274.5	269.2	23	22	86.7	91.1	48.4	48.3	4.4	97
		46.0	46.0	273.3	268.4	23	32	85.5	90.3	46.2	46.0		
		48.3	48.3	272.1	267.7	23	42	84.2	89.4	43.9	43.6		
1517	5.1	52.3	53.0	263.6	259.8	23	32	95.3	98.5	56.7	57.3	5.3	1107
		54.6	55.3	262.7	259.2	23	42	94.3	97.9	54.5	55.0		
		56.8	57.7	261.8	258.7	23	52	93.4	97.2	52.2	52.7		
1522	5.1	54.6	55.0	268.2	264.7	23	48	91.4	94.4	59.4	59.7	3.2	149
		56.9	57.3	267.2	264.0	23	58	90.4	93.6	57.1	57.3		
		59.2	59.6	266.2	263.3	24	8	89.3	92.8	54.9	55.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15		
762	3.3	52.3	52.8	266.4	262.6	23	59	93.5	96.7	57.1	57.5	3.2	149
		54.6	55.2	265.6	262.1	0	9	92.8	96.3	54.7	55.1		
		57.0	57.6	264.9	261.7	0	19	92.0	95.8	52.4	52.7		
794	4.5	44.6	44.5	273.9	268.8	0	11	85.5	89.7	49.5	45.3	3.8	127
		46.9	46.9	272.9	268.2	0	21	84.4	89.1	47.2	46.9		
		49.3	49.3	272.0	267.7	0	31	83.3	88.4	44.8	44.5		
1547	4.8	51.9	51.7	274.2	270.2	0	22	85.1	89.4	56.9	56.6	4.1	154
		54.2	54.1	273.2	269.6	0	32	84.1	87.7	54.6	54.2		
		56.6	56.5	272.3	269.0	0	42	83.1	87.0	52.2	51.8		
1543	4.6	56.7	56.2	277.2	273.9	0	32	82.8	85.5	61.5	61.0	4.1	169
		59.0	58.6	276.2	273.2	0	42	81.7	84.7	59.2	58.6		
		61.3	61.0	275.2	272.5	0	52	80.6	83.9	56.8	56.2		
819	3.9	41.9	42.3	267.7	262.2	0	42	90.1	94.7	47.0	47.2	3.2	149
		44.2	44.7	267.0	261.9	0	52	89.2	94.3	44.6	44.8		
		46.6	47.1	266.3	261.6	1	2	88.3	93.8	42.3	42.4		
808	3.1	51.4	51.8	279.0	275.0	0	54	80.4	83.8	56.4	55.7	4.1	169
		53.7	53.2	277.9	274.2	1	4	79.3	82.9	54.1	53.3		
		56.1	55.6	276.8	273.4	1	14	78.1	82.0	51.8	50.9		
840	4.3	42.4	41.8	280.5	275.0	1	4	80.6	85.2	47.1	46.5	4.1	154
		44.8	44.2	279.2	274.1	1	14	79.3	84.4	44.8	44.1		
		47.1	46.6	278.0	273.3	1	24	78.0	83.4	42.5	41.7		
812	3.8	51.4	52.1	264.2	260.2	1	16	96.5	99.8	55.9	56.6	3.3	1144
		53.7	54.4	263.5	259.9	1	26	95.8	99.4	53.6	54.3		
		56.0	56.8	262.8	259.6	1	36	95.1	99.1	51.3	51.9		
828	4.4	49.6	49.9	268.4	264.2	1	32	92.2	95.8	54.5	54.8	4.3	1146
		51.9	52.2	267.6	263.8	1	42	91.4	95.3	52.1	52.4		
		54.2	54.7	266.9	263.3	1	52	90.6	94.8	49.8	50.0		
819	3.0	55.9	56.6	263.5	260.2	1	42	95.4	98.1	60.5	61.1	3.9	226
		58.3	59.0	262.9	259.8	1	52	94.6	97.7	58.2	58.7		
		60.6	61.4	262.2	259.4	2	2	93.9	97.2	55.8	56.3		
861	4.2	44.7	44.0	270.6	265.5	1	54	89.4	94.7	49.3	49.5	4.3	1146
		47.0	47.3	269.7	265.1	2	4	89.6	94.2	47.0	47.1		
		49.4	49.7	268.9	264.6	2	14	88.7	93.7	44.6	44.7		
864	3.8	49.1	47.6	277.8	273.3	2	4	82.1	85.6	52.9	52.4	2.9	209
		50.5	50.1	276.7	272.5	2	14	81.0	85.1	50.6	50.0		
		52.8	52.5	275.6	271.8	2	24	79.8	84.3	48.3	47.6		
866	3.5	47.9	48.4	266.3	261.8	2	15	92.9	96.7	52.8	53.2	3.8	226
		50.2	50.9	265.6	261.5	2	25	92.1	96.2	50.4	50.8		
		52.6	53.2	264.9	261.1	2	35	91.3	95.8	48.1	48.4		
861	4.2	52.4	52.9	267.8	264.3	2	27	91.0	94.3	57.2	57.4	5.4	1171
		54.8	55.2	267.0	263.6	2	37	90.2	93.7	54.9	55.0		
		57.1	57.6	266.3	263.1	2	47	89.3	93.2	52.5	52.6		
1608	4.5	50.1	49.9	274.7	270.5	2	39	85.4	88.9	54.7	54.4	5.1	1170
		52.5	52.3	273.7	269.9	2	49	84.4	88.2	52.4	52.0		
		54.8	54.7	272.8	269.2	2	59	83.3	87.5	50.0	49.6		
866	3.5	55.6	56.3	264.0	260.6	2	48	97.1	99.8	60.5	61.2	4.1	271
		58.0	58.7	263.3	260.2	2	59	96.4	99.4	58.1	58.8		
		60.3	61.1	262.6	259.3	3	8	95.7	99.0	55.8	56.4		
1617	4.4	57.1	56.8	275.7	272.5	3	2	84.0	86.7	62.1	61.7	5.0	1186
		59.4	59.2	274.7	271.8	3	12	83.0	85.9	59.8	59.3		
		61.9	61.6	273.9	271.1	3	22	82.0	85.2	57.4	56.9		
905	4.6	45.2	45.9	264.9	260.1	3	14	95.3	99.5	49.8	50.5	1.6	257
		47.6	48.2	264.3	259.8	3	24	94.6	99.1	47.5	48.1		
		49.9	50.6	263.7	259.5	3	34	93.9	98.9	45.1	45.7		
30	5.2	38.8	38.4	277.8	271.5	3	26	80.0	85.3	43.5	42.9	5.1	1170
		41.2	41.8	276.6	270.8	3	36	78.7	84.4	41.2	40.5		
		43.5	43.2	275.5	270.2	3	46	77.3	83.5	38.9	38.1		
1630	4.7	54.9	54.4	276.7	273.2	3	40	82.8	85.7	59.6	59.1	5.2	289
		57.2	56.8	275.7	272.5	3	50	81.7	84.9	57.3	56.7		
		59.5	59.3	274.7	271.8	4	0	80.6	84.1	55.0	54.3		
1002	4.7	54.4	53.9	277.3	273.7	3	41	80.7	85.6	59.4	58.9	5.2	289
		56.7	56.3	276.3	273.0	3	51	81.6	84.9	57.0	56.5		
		59.1	58.8	275.3	272.3	4	1	80.5	84.0	54.7	54.0		
1630	4.7	57.4	57.1	275.6	272.4	3	51	82.4	86.1	62.4	62.0	5.1	304
		59.8	59.5	274.6	271.7	4	1	82.4	85.3	60.1	59.6		
		62.1	61.9	273.7	271.0	4	11	81.4	84.5	57.8	57.2		
1002	4.7	57.2	56.8	276.1	272.9	3	53	83.2	85.9	62.0	61.5	5.1	304
		59.6	59.2	275.1	272.1	4	3	82.2	85.2	59.6	59.1		
		61.9	61.7	274.1	271.4	4	13	81.2	84.4	57.3	56.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	LAT-20	LAT-15		
40	3.6	45.9	45.6	275.1	270.2	4	14	86.0	90.1	50.8	50.6	4.1	293
		48.2	48.1	274.0	269.6	4	24	85.0	89.8	48.4	48.2		
		50.6	50.5	273.1	268.9	4	34	83.9	88.7	46.1	45.8		
59	3.7	40.9	41.3	268.3	262.6	4	35	91.0	95.8	45.6	45.9	5.1	1202
		43.3	43.7	267.6	262.3	4	45	90.1	95.4	43.2	43.4		
		45.6	46.1	266.8	262.0	4	55	89.2	95.0	40.9	41.0		
59	3.7	44.0	44.4	267.3	262.2	4	48	93.7	98.0	48.6	49.2	5.1	311
		46.3	46.8	266.6	261.9	4	58	92.9	97.7	46.3	46.8		
		48.7	49.2	265.9	261.6	5	8	92.2	97.3	44.0	44.4		
59	3.7	54.3	55.0	264.2	260.7	5	32	95.0	97.9	59.1	59.6	5.0	364
		56.6	57.3	263.5	260.3	5	42	94.3	97.5	56.7	57.2		
		59.0	59.7	262.9	259.9	5	52	93.5	97.1	54.4	54.8		
1071	4.8	48.8	49.3	266.8	262.5	5	56	93.2	96.9	53.4	53.9	5.0	364
		51.2	51.7	266.1	262.1	6	6	92.4	96.4	51.1	51.5		
		53.5	54.1	265.4	261.7	6	16	91.7	96.0	48.7	49.1		
1066	4.9	53.6	53.9	269.1	265.5	6	7	92.4	95.4	58.5	58.8	3.8	381
		56.9	56.3	268.3	265.0	6	17	91.6	94.9	56.1	56.4		
		58.3	58.7	267.5	264.4	6	27	90.8	94.4	53.8	54.0		
97	4.4	51.3	51.6	267.9	263.9	6	17	91.6	94.9	56.1	56.4	3.8	381
		53.6	54.0	267.1	263.5	6	27	90.8	94.4	53.8	54.0		
		56.0	56.4	266.3	263.0	6	37	89.9	93.9	51.4	51.6		
1080	5.3	55.3	54.6	279.6	276.1	6	33	81.1	84.0	59.9	59.3	5.2	1270
		57.6	57.0	278.5	275.3	6	43	80.0	83.2	57.6	56.9		
		60.0	59.4	277.4	274.5	6	53	78.9	82.4	55.3	54.5		
149	3.2	42.0	42.1	271.8	266.2	6	51	89.1	93.8	46.7	46.8	4.7	1261
		44.4	44.5	270.9	265.8	7	1	88.2	93.3	44.3	44.4		
		46.7	46.9	270.0	265.3	7	11	87.3	92.8	42.0	42.0		
1100	5.3	43.8	49.5	263.8	259.6	7	2	95.7	99.3	53.8	54.4	3.3	410
		51.1	51.9	263.2	259.3	7	12	95.0	98.9	51.4	52.0		
		53.4	54.3	262.6	259.0	7	22	94.3	98.6	49.1	49.6		
172	4.0	37.8	37.9	272.3	265.8	7	14	86.5	91.9	42.8	42.7	3.8	381
		40.1	40.3	271.3	265.4	7	24	85.5	91.4	40.4	40.3		
		42.5	42.7	270.4	265.0	7	34	84.4	90.8	38.1	37.9		
135	3.7	55.5	55.5	271.7	268.3	7	29	89.9	92.7	60.2	60.3	4.8	1299
		57.8	57.9	270.8	267.7	7	39	89.0	92.2	57.8	57.9		
		60.2	60.3	270.0	267.1	7	49	88.1	91.6	55.5	55.5		
1144	3.3	37.6	38.0	269.1	262.7	7	50	92.3	97.7	42.5	43.0	3.3	410
		40.0	40.4	268.3	262.4	8	0	91.5	97.4	40.2	40.6		
		42.3	42.8	267.6	262.2	8	10	90.7	97.1	37.8	38.2		
1144	3.3	41.4	41.9	267.9	262.3	8	6	91.3	96.1	46.1	46.4	3.8	426
		43.7	44.2	267.1	262.0	8	16	90.5	95.7	43.7	44.0		
		46.1	46.6	266.4	261.7	8	26	89.7	95.3	41.4	41.6		
190	4.3	53.2	53.0	274.0	270.2	8	44	86.8	89.9	57.8	57.7	4.8	475
		55.6	55.5	273.0	269.6	8	54	85.8	89.3	55.5	55.3		
		57.9	57.9	272.1	269.0	9	4	84.8	88.6	53.1	52.8		
1146	4.3	56.1	56.4	267.3	263.9	9	12	91.8	94.6	61.1	61.3	1.2	498
		58.4	58.8	266.5	263.4	9	22	91.0	94.0	58.7	58.9		
		60.7	61.2	265.7	263.0	9	32	90.2	93.5	56.4	56.5		
220	2.2	55.6	55.6	271.9	268.4	9	34	88.7	91.5	60.5	60.5	5.2	1355
		58.0	58.0	271.0	267.8	9	44	87.8	90.9	58.1	58.1		
		60.3	60.4	270.1	267.2	9	54	86.9	90.3	55.8	55.7		
266	4.3	41.9	41.8	274.2	268.7	9	45	84.0	88.8	46.6	46.3	4.9	1335
		44.3	44.2	273.3	268.1	9	55	82.9	88.0	44.2	43.9		
		46.6	46.6	272.3	267.5	10	5	81.7	87.3	41.9	41.4		
266	4.3	45.2	45.2	272.8	267.9	9	59	87.8	92.0	50.0	50.0	1.2	498
		47.5	47.6	271.9	267.3	10	9	86.8	91.4	47.7	47.6		
		49.9	50.0	271.0	266.8	10	19	85.8	90.8	45.3	45.2		
266	4.3	50.8	51.0	270.6	266.6	10	23	88.9	92.3	55.8	55.9	4.3	523
		53.2	53.4	269.8	266.0	10	33	88.0	91.7	53.5	53.5		
		55.5	55.8	268.9	265.5	10	43	87.0	91.1	51.2	51.1		
1202	5.1	44.8	45.1	269.3	264.3	10	52	90.7	94.9	49.6	49.9	4.6	1371
		47.2	47.5	268.5	263.9	11	2	89.8	94.4	47.3	47.5		
		49.5	49.9	267.7	263.5	11	12	88.9	93.9	44.9	45.0		
311	5.1	41.4	41.8	268.7	263.0	11	6	89.5	94.2	46.3	46.5	4.6	1371
		43.8	44.2	267.9	262.7	11	16	88.6	93.7	44.0	44.1		
		46.1	46.6	267.1	262.4	11	26	87.6	93.2	41.6	41.7		
293	4.1	53.4	53.3	272.9	269.2	11	18	88.7	91.8	58.2	58.3	2.7	564
		55.8	55.8	272.0	268.6	11	28	87.8	91.2	55.9	55.9		
		58.1	58.2	271.1	268.0	11	38	86.9	90.6	53.6	53.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15		
304	5.1	57.2	56.6	278.9	275.7	11	44	82.9	85.6	61.8	61.3	3.6	585
		59.5	59.0	277.8	274.9	11	54	81.8	84.8	59.5	58.9		
		61.9	61.4	276.8	274.1	12	4	80.8	84.0	57.1	56.5		
316	4.0	54.1	53.4	280.1	276.5	11	57	81.5	84.6	58.8	58.1	3.6	585
		56.4	55.8	279.0	275.6	12	7	80.4	83.8	56.4	55.7		
		58.8	58.2	277.9	274.8	12	17	79.3	82.9	54.1	53.3		
316	4.0	56.9	56.3	278.8	275.5	12	9	83.1	85.8	61.6	61.1	3.0	603
		59.2	58.7	277.7	274.7	12	19	82.1	85.1	59.3	58.7		
		61.6	61.1	276.7	273.9	12	29	81.0	84.3	57.0	56.3		
325	5.2	55.2	55.5	268.5	265.1	12	28	80.9	83.8	60.3	60.5	2.7	622
		57.6	57.9	267.7	264.6	12	38	80.1	83.2	57.9	58.1		
		59.9	60.3	266.9	264.1	12	48	80.2	82.6	55.6	55.6		
1261	4.7	37.9	37.8	274.5	268.1	12	40	83.1	88.5	42.8	42.5	4.8	1409
		40.3	40.2	273.5	267.5	12	50	81.9	87.7	40.5	40.1		
		42.6	42.6	272.5	267.0	13	0	80.6	87.0	38.2	37.6		
381	3.8	44.8	44.8	272.6	267.6	13	14	86.8	91.1	49.5	49.4	2.7	622
		47.2	47.2	271.7	267.1	13	24	85.8	90.5	47.1	47.0		
		49.5	49.6	270.8	266.5	13	34	84.8	89.9	44.8	44.5		
399	4.1	48.8	49.4	264.9	260.6	13	51	84.7	98.4	53.7	54.2	3.6	658
		51.1	51.9	264.2	260.3	14	1	84.0	98.0	51.3	51.8		
		53.4	54.2	263.6	260.0	14	11	83.3	97.6	49.0	49.4		
410	3.3	46.2	46.7	266.6	261.9	14	3	93.9	97.9	50.8	51.4	3.6	658
		48.6	49.1	265.9	261.5	14	13	93.2	97.5	48.5	49.0		
		50.9	51.5	265.2	261.2	14	23	92.4	97.2	46.2	46.6		
399	4.1	54.8	55.6	263.2	259.9	14	17	95.6	98.5	59.8	60.5	4.7	696
		57.2	58.0	262.5	259.4	14	27	94.9	98.1	57.5	58.2		
		59.5	60.3	261.9	259.0	14	37	94.2	97.6	55.2	55.7		
410	3.3	52.3	52.9	264.8	261.0	14	29	94.8	99.0	57.0	57.6	4.7	696
		54.6	55.3	264.1	260.6	14	39	94.0	97.5	54.7	55.2		
		57.0	57.7	263.4	260.2	14	49	93.3	97.1	52.4	52.8		
426	3.8	49.0	49.3	267.7	263.4	14	43	93.7	97.4	53.8	54.2	4.7	696
		51.3	51.7	266.9	263.0	14	53	93.0	96.9	51.4	51.8		
		53.6	54.1	266.2	262.5	15	3	92.2	96.5	49.1	49.5		
1290	4.8	49.3	49.1	274.4	270.1	14	56	85.6	89.3	53.9	53.7	4.1	1482
		51.7	51.5	273.4	269.4	15	6	84.6	88.6	51.6	51.3		
		54.0	53.9	272.5	268.8	15	16	83.6	87.9	49.3	49.9		
457	2.8	41.9	42.5	265.9	260.4	15	12	91.5	96.2	47.0	47.3	4.7	696
		44.3	44.9	265.2	260.2	15	22	90.7	95.8	44.6	44.9		
		46.6	47.3	264.6	259.9	15	32	89.9	95.4	42.3	42.5		
1290	4.8	56.6	56.6	271.5	268.2	15	27	87.2	89.9	61.5	61.4	5.0	737
		59.9	59.0	270.6	267.6	15	37	86.3	89.2	59.2	59.0		
		61.3	61.4	269.7	267.0	15	47	85.3	88.6	56.8	56.6		
457	2.8	48.0	48.7	264.2	259.9	15	38	95.3	99.0	52.8	53.5	4.6	727
		50.3	51.1	263.5	259.5	15	48	94.6	98.6	50.5	51.1		
		52.7	53.5	262.9	259.2	15	58	93.9	98.2	48.2	48.7		
1335	4.9	44.6	44.2	277.0	271.9	15	53	83.2	87.6	49.5	49.1	5.4	1500
		46.9	46.6	275.8	271.1	16	3	82.2	86.8	47.1	46.6		
		49.2	49.0	274.8	270.5	16	13	81.0	86.0	44.8	44.2		
465	3.1	50.8	51.4	264.8	260.8	16	3	95.5	98.9	55.6	56.2	5.1	1522
		53.1	53.8	264.1	260.4	16	13	94.8	98.5	53.2	53.8		
		55.5	56.2	263.4	260.1	16	23	94.1	98.1	50.9	51.4		
465	3.1	53.6	54.3	264.0	260.4	16	15	95.5	99.5	58.3	58.9	3.3	762
		55.9	56.7	263.2	260.0	16	25	94.8	98.1	56.0	56.6		
		58.3	59.0	262.6	259.6	16	35	94.1	97.7	53.7	54.2		
1355	5.2	42.2	41.6	279.4	273.9	16	29	80.8	85.5	47.0	46.4	5.0	737
		44.6	44.1	278.2	273.1	16	39	79.6	84.6	44.7	44.0		
		46.9	46.5	277.1	272.3	16	49	78.2	83.7	42.4	41.6		
1335	4.9	56.3	56.3	271.9	269.6	16	43	89.4	92.1	60.8	60.9	4.8	1547
		58.6	58.7	271.0	269.0	16	53	88.5	91.5	58.5	58.5		
		61.0	61.1	270.1	267.4	17	3	87.6	90.9	56.1	56.1		
498	1.2	51.6	51.6	271.6	267.6	16	56	89.3	91.7	56.4	56.4	3.8	781
		54.0	54.1	270.7	267.1	17	6	87.4	91.0	54.1	54.0		
		56.3	56.5	269.8	266.5	17	16	86.5	90.4	51.8	51.6		
1371	4.6	41.2	41.2	272.6	266.9	17	8	88.3	93.1	45.8	45.9	3.8	761
		43.5	43.6	271.6	266.4	17	18	87.3	92.6	43.4	43.4		
		45.9	46.0	270.7	265.9	17	28	86.3	92.1	41.1	41.0		
1371	4.6	41.2	41.2	272.6	266.9	17	8	88.2	93.1	45.7	45.8	4.6	1527
		43.5	43.6	271.6	266.4	17	18	87.2	92.5	43.4	43.3		
		45.9	46.0	270.7	265.9	17	28	86.2	92.0	41.0	40.9		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT-20	LAT-15	LAT-20	LAT-15	HRS	MIN	LAT-20	LAT-15	LAT-20	LAT-15		
523	4.3	46.3	46.1	275.0	270.2	17	20	86.1	90.2	50.8	50.7	3.8	781
		48.7	48.5	274.0	269.6	17	30	85.1	89.5	48.5	48.2		
		51.0	50.9	273.0	269.0	17	40	84.0	88.8	46.1	45.8		
1371	4.6	47.3	47.4	270.2	265.6	17	34	89.1	93.0	52.1	52.2	4.5	794
		49.6	49.9	269.4	265.1	17	44	88.2	92.4	49.8	49.8		
		52.0	52.3	268.5	264.6	17	54	87.3	91.9	47.4	47.4		
523	4.3	52.2	52.1	272.5	268.7	17	45	86.6	89.8	57.2	57.1	4.8	1569
		54.5	54.5	271.6	268.1	17	55	85.6	89.2	54.9	54.6		
		56.9	56.9	270.7	267.5	18	5	84.6	88.5	52.5	52.2		
1387	5.3	44.6	45.1	267.3	262.3	17	57	90.3	94.5	49.7	49.9	5.5	1562
		47.0	47.5	266.6	262.0	18	7	89.4	94.0	47.4	47.5		
		49.3	49.9	265.9	261.6	18	17	88.5	93.5	45.0	45.1		
548	2.9	44.8	45.3	267.2	262.2	17	58	90.2	94.4	49.5	49.7	5.5	1562
		47.1	47.7	266.5	261.9	18	8	89.3	93.9	47.1	47.3		
		49.5	50.0	265.8	261.6	18	18	88.4	93.4	44.8	44.9		
1394	5.4	46.6	46.2	277.4	272.7	18	7	81.0	85.0	51.4	50.8	3.1	808
		49.0	48.6	276.3	271.9	18	17	79.8	84.2	49.1	48.4		
		51.3	51.0	275.3	271.2	18	27	78.6	83.3	46.8	46.0		
564	2.7	44.9	44.5	277.0	271.9	18	17	83.4	87.6	49.7	49.3	4.8	1569
		47.3	47.0	275.8	271.2	18	27	82.2	86.9	47.4	46.9		
		49.6	49.4	274.8	270.5	18	37	81.1	86.1	45.1	44.5		
545	4.0	57.1	56.7	276.4	273.2	18	30	84.1	86.8	61.9	61.5	5.3	1595
		59.5	59.1	275.4	272.5	18	40	83.1	86.0	59.6	59.1		
		61.8	61.5	274.5	271.8	18	50	82.0	85.3	57.3	56.7		
577	4.0	44.5	44.8	269.1	264.1	18	40	91.5	95.7	49.3	49.6	4.4	828
		46.8	47.2	268.3	263.7	18	50	90.7	95.3	46.9	47.2		
		49.2	49.6	267.5	263.3	19	0	89.8	94.9	44.6	44.8		
1417	4.7	41.8	42.0	270.8	265.3	18	51	90.6	95.3	46.7	47.0	4.4	828
		44.2	44.4	270.0	264.8	19	1	89.7	94.8	44.4	44.6		
		46.5	46.8	269.1	264.4	19	11	88.8	94.4	42.0	42.1		
577	4.0	49.6	50.0	267.4	263.2	19	2	92.8	96.4	54.3	54.7	4.2	861
		52.0	52.4	266.6	262.8	19	12	92.0	95.9	52.0	52.3		
		54.3	54.8	265.9	262.4	19	22	91.2	95.4	49.6	49.9		
1417	4.7	47.0	47.3	269.0	264.3	19	13	91.9	95.9	51.7	52.1	4.2	861
		49.4	49.7	268.2	263.9	19	23	91.1	95.4	49.4	49.7		
		51.7	52.1	267.4	263.5	19	33	90.3	94.9	47.1	47.3		
1438	4.7	38.5	38.0	278.0	271.7	19	24	80.0	85.3	43.3	42.6	4.3	840
		40.8	40.8	276.8	271.0	19	34	78.7	84.4	40.9	40.2		
		43.1	42.9	275.6	270.3	19	44	77.2	83.5	38.7	37.8		
622	2.7	44.0	43.8	275.5	270.4	19	35	82.7	87.1	49.1	48.6	3.8	864
		46.4	46.2	274.5	269.7	19	45	81.6	86.3	46.8	46.2		
		48.7	48.6	273.5	269.1	19	55	80.3	85.5	44.4	43.8		
622	2.7	46.6	46.4	274.4	269.6	19	46	85.8	89.8	51.5	51.3	4.5	1608
		49.0	48.9	273.4	269.0	19	56	84.8	89.2	49.1	48.9		
		51.3	51.3	272.4	268.4	20	6	83.8	88.5	46.8	46.4		
622	2.7	46.9	46.7	274.3	269.6	19	47	86.7	90.6	51.8	51.7	5.2	1609
		49.2	49.1	273.3	269.0	19	57	85.7	90.0	49.4	49.3		
		51.5	51.5	272.3	268.4	20	7	84.7	89.3	47.1	46.8		
605	3.3	55.8	55.2	278.2	274.8	19	58	82.7	85.5	60.5	60.0	5.1	900
		58.1	57.6	277.2	274.1	20	8	81.6	84.7	58.2	57.6		
		60.4	60.0	276.2	273.3	20	18	80.5	83.9	55.9	55.2		
622	2.7	54.1	54.2	271.3	267.7	20	18	88.5	91.5	58.9	58.9	3.8	9
		56.5	56.6	270.5	267.1	20	28	87.6	90.9	56.6	56.5		
		58.8	59.0	269.6	266.6	20	38	86.7	90.3	54.3	54.1		
658	3.6	41.2	41.6	269.2	263.6	20	29	91.4	96.1	46.1	46.5	4.6	894
		43.6	44.1	268.4	263.2	20	39	90.5	95.7	43.8	44.1		
		45.9	46.4	267.7	262.9	20	49	89.7	95.3	41.4	41.7		
673	3.5	44.8	44.5	276.3	271.3	20	59	84.6	88.9	49.2	49.0	3.8	9
		47.1	46.9	275.2	270.6	21	9	83.5	88.2	47.0	46.6		
		49.5	49.3	274.2	269.9	21	19	82.3	87.4	44.7	44.2		
1486	4.7	39.8	39.2	280.0	274.0	21	20	82.2	87.4	44.4	44.0	3.8	9
		42.2	41.6	278.7	273.2	21	30	81.0	86.6	42.1	41.6		
		44.5	44.0	277.5	272.4	21	40	79.7	85.7	39.8	39.2		
673	3.5	52.3	52.2	273.0	269.2	21	31	87.0	90.2	57.2	57.1	3.8	47
		54.6	54.6	272.1	268.6	21	41	86.1	89.6	54.8	54.6		
		57.0	57.0	271.2	268.0	21	51	85.1	88.9	52.5	52.2		
1486	4.7	47.5	47.2	276.1	271.5	21	53	84.9	88.8	52.0	51.7	3.8	47
		49.9	49.6	275.0	270.8	22	3	83.8	88.1	49.7	49.3		
		52.2	52.0	274.0	270.1	22	13	82.7	87.3	47.4	46.9		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT-20	LAT-15	LAT-20	LAT-15		LAT-20	LAT-15	LAT-20	LAT-15			
702	5.1	47.5	47.1	277.2	272.6	21	53	84.9	88.8	52.0	51.7	3.8	47
		49.8	49.5	276.1	271.9	22	3	83.8	88.1	49.7	49.3		
		52.2	51.9	275.1	271.2	22	13	82.7	87.3	47.4	46.9		
696	4.7	54.9	55.4	265.9	262.4	22	18	92.9	95.8	59.5	59.9	4.9	1066
		57.2	57.8	265.2	262.0	22	28	92.1	95.3	57.1	57.5		
		59.6	60.2	264.4	261.6	22	38	91.3	94.8	54.8	55.1		
1512	5.5	40.8	41.2	267.9	262.2	22	31	93.2	98.0	45.7	46.2	3.7	59
		43.1	43.6	267.2	261.9	22	41	92.5	97.7	43.4	43.8		
		45.5	46.0	266.4	261.6	22	51	91.7	97.4	41.0	41.4		
1514	5.1	40.6	41.0	268.2	262.5	22	32	93.1	98.0	45.5	46.0	3.7	59
		43.0	43.4	267.5	262.2	22	42	92.4	97.7	43.1	43.6		
		45.3	45.8	266.7	261.9	22	52	91.6	97.4	40.8	41.2		
727	4.6	48.8	49.4	265.9	261.6	22	46	94.7	99.3	53.6	54.2	4.8	1071
		51.2	51.8	265.2	261.3	22	56	93.9	97.9	51.3	51.8		
		53.5	54.1	264.5	260.9	23	6	93.2	97.5	48.9	49.4		
1512	5.5	46.6	47.2	266.1	261.4	22	56	93.9	97.9	51.3	51.8	4.8	1071
		49.0	49.6	265.4	261.1	23	6	93.2	97.5	48.9	49.4		
		51.3	52.0	264.7	260.9	23	16	92.5	97.1	46.6	47.0		
1514	5.1	46.5	47.0	266.4	261.7	22	57	93.9	97.9	51.0	51.5	4.8	1071
		49.8	49.4	265.7	261.4	23	7	93.1	97.5	48.7	49.1		
		51.2	51.8	265.0	261.0	23	17	92.4	97.1	46.3	46.7		
762	3.3	41.5	41.7	270.0	264.4	23	13	88.3	93.0	46.6	46.6	4.9	1066
		43.9	44.2	269.2	264.0	23	23	87.3	92.5	44.2	44.2		
		46.2	46.6	268.4	263.6	23	33	86.3	91.9	41.9	41.8		
727	5.0	56.7	56.4	274.7	271.4	23	24	84.9	97.6	61.4	61.1	4.8	1097
		59.0	58.8	273.8	270.8	23	34	83.9	96.9	59.1	58.7		
		61.4	61.2	272.8	270.1	23	44	82.8	96.1	56.7	56.3		
781	3.8	43.3	42.9	277.4	272.0	23	41	84.1	88.6	48.2	47.8	4.1	104
		45.6	45.3	276.2	271.3	23	51	83.0	87.9	45.8	45.4		
		48.0	47.7	275.2	270.6	24	1	81.8	87.1	43.5	43.0		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT-15	LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10		
781	3.8	47.2	47.4	270.8	266.2	23	59	90.5	94.4	52.2	52.4	3.8	127
		49.6	49.8	270.1	265.9	0	9	89.9	94.1	49.8	50.0		
		52.1	52.3	269.5	265.6	0	19	89.2	93.8	47.4	47.5		
794	4.5	44.5	44.8	268.8	263.8	0	11	89.7	94.0	49.3	49.5	3.8	127
		46.9	47.3	268.2	263.6	0	21	89.1	93.7	46.9	47.0		
		49.3	49.7	267.7	263.4	0	31	88.4	93.5	44.5	44.6		
1547	4.8	51.7	51.8	270.2	266.3	0	22	88.4	91.7	56.6	56.6	4.1	154
		54.1	54.3	269.6	266.0	0	32	87.7	91.3	54.2	54.2		
		56.5	56.7	269.0	265.7	0	42	87.0	90.9	51.8	51.7		
1543	4.6	56.2	56.0	273.9	270.6	0	32	85.5	88.3	61.0	60.7	4.1	169
		58.6	58.5	273.2	270.1	0	42	84.7	87.8	58.6	58.2		
		61.0	60.9	272.5	269.7	0	52	83.9	87.3	56.2	55.8		
1569	4.8	46.3	46.3	273.3	268.5	0	44	86.8	90.8	51.3	51.2	4.1	154
		48.8	48.7	272.6	268.2	0	54	86.0	90.4	48.9	48.7		
		51.2	51.2	271.8	267.8	1	4	85.2	90.0	46.5	46.3		
809	3.1	50.8	50.5	275.0	270.9	0	54	83.8	87.2	55.7	55.3	4.1	169
		53.2	53.0	274.2	270.4	1	4	82.9	86.7	53.3	52.8		
		55.6	55.5	273.4	270.0	1	14	82.0	86.1	50.9	50.4		
808	3.1	54.4	54.2	273.8	270.2	1	9	87.0	90.0	59.2	59.1	2.9	188
		56.8	56.7	273.1	269.8	1	19	86.3	89.6	56.8	56.6		
		59.2	59.2	272.3	269.3	1	29	85.5	89.1	54.4	54.2		
1595	5.3	41.5	40.9	280.6	275.0	1	20	80.7	85.5	46.3	45.7	5.2	1120
		43.9	43.3	279.5	274.3	1	30	79.7	84.9	43.9	43.3		
		46.3	45.8	278.5	273.7	1	40	78.5	84.2	41.6	40.8		
840	4.3	49.5	48.5	272.7	268.3	1	32	85.3	89.0	53.7	53.4	2.9	188
		50.9	50.9	272.0	267.9	1	42	84.5	88.5	51.3	51.0		
		53.3	53.4	271.3	267.6	1	52	83.6	88.0	48.9	48.5		
1591	4.9	47.0	47.3	269.1	264.5	1	42	88.8	92.7	52.1	52.2	0.3	194
		49.4	49.7	268.5	264.3	1	52	88.1	92.4	49.7	49.7		
		51.8	52.2	268.0	264.1	2	2	87.4	92.0	47.3	47.3		
864	3.8	45.2	45.1	274.1	269.1	1	54	86.5	90.6	50.3	50.2	3.7	195
		47.6	47.6	273.3	268.7	2	4	85.7	90.2	47.9	47.7		
		50.1	50.0	272.5	268.3	2	14	84.8	89.8	45.5	45.2		
864	3.8	47.6	47.6	273.3	268.7	2	4	85.9	89.8	52.4	52.2	2.9	209
		50.1	50.0	272.5	268.3	2	14	85.1	89.3	50.0	49.8		
		52.5	52.5	271.8	267.9	2	24	84.3	88.8	47.6	47.3		
1607	4.4	45.2	44.9	276.3	271.3	2	14	85.1	89.3	50.0	49.8	2.9	209
		47.6	47.3	275.4	270.8	2	24	84.3	88.8	47.6	47.3		
		50.0	49.8	274.6	270.4	2	34	83.4	88.4	45.2	44.8		
864	3.8	53.9	54.0	271.4	267.7	2	30	86.5	89.5	59.1	58.9	5.0	246
		56.3	56.4	270.7	267.4	2	40	85.8	89.1	56.7	56.5		
		58.7	58.9	270.0	267.0	2	50	85.0	88.6	54.3	54.0		
861	4.2	56.2	56.9	263.4	260.1	2	41	95.7	98.4	61.2	61.8	4.3	266
		58.6	59.3	262.9	259.9	2	51	95.1	98.1	58.8	59.4		
		60.9	61.7	262.4	259.7	3	1	94.6	97.9	56.4	56.9		
1607	4.4	56.8	56.7	272.5	269.2	3	2	86.7	89.4	61.7	61.5	5.0	1186
		59.2	59.1	271.8	268.8	3	12	85.9	88.9	59.3	59.1		
		61.6	61.6	271.1	268.4	3	22	85.2	88.4	56.9	56.6		
30	5.2	39.2	38.3	271.6	265.3	3	25	85.4	90.8	43.1	42.9	5.1	1170
		40.6	40.8	270.9	265.1	3	35	84.5	90.3	40.7	40.5		
		43.0	43.2	270.2	264.9	3	45	83.6	89.9	38.3	38.0		
1630	4.7	54.2	54.1	273.3	269.7	3	39	85.8	88.8	59.3	59.1	5.2	289
		56.6	56.5	272.5	269.2	3	49	85.0	88.3	56.9	56.6		
		59.0	59.0	271.8	268.8	3	59	84.2	87.8	54.5	54.2		
1002	4.7	53.9	53.8	273.7	270.1	3	41	85.6	88.7	58.9	58.6	5.2	289
		56.3	56.2	273.0	269.7	3	51	84.9	88.2	56.5	56.1		
		58.8	58.7	272.3	269.2	4	1	84.0	87.7	54.0	53.7		
1630	4.7	57.1	57.0	272.4	269.2	3	51	86.1	88.7	62.0	61.7	5.1	304
		59.5	59.5	271.7	268.7	4	1	85.3	88.3	59.6	59.3		
		61.9	61.9	271.0	268.4	4	11	84.5	87.8	57.2	56.8		
1002	4.7	56.6	56.5	272.9	269.6	3	52	86.0	88.7	61.7	61.5	5.1	304
		59.0	58.9	272.2	269.2	4	2	85.2	88.2	59.3	59.0		
		61.4	61.4	271.5	268.8	4	12	84.5	87.7	56.9	56.6		
40	3.6	45.6	45.8	270.2	265.3	4	14	90.1	94.2	50.6	50.8	4.1	293
		48.1	48.3	269.6	265.1	4	24	89.4	93.9	48.2	48.3		
		50.5	50.7	268.9	264.8	4	34	88.7	93.6	45.8	45.9		
1049	5.3	45.3	44.6	279.7	274.8	4	40	82.1	86.3	50.2	49.7	5.1	304
		47.7	47.1	278.7	274.1	4	50	81.1	85.7	47.8	47.2		
		50.0	49.6	277.8	273.6	5	0	80.1	85.0	45.4	44.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-15	Z. D. LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10	LAT-15	LAT-10		
1049	5.3	51.2	50.8	277.3	273.3	5	5	83.9	87.3	56.2	55.8	5.2	1230
		53.6	53.2	276.4	272.7	5	15	83.1	86.7	53.8	53.3		
		56.0	55.7	275.6	272.2	5	25	82.2	86.2	51.4	50.9		
97	4.4	40.6	41.2	265.9	260.2	5	31	92.8	97.6	45.7	46.1	5.2	325
		43.0	43.6	265.5	260.2	5	41	92.3	97.5	43.3	43.7		
		45.4	46.0	265.1	260.2	5	51	91.7	97.5	40.8	41.2		
104	4.1	45.7	45.7	272.1	267.2	6	1	88.8	92.9	50.6	50.7	2.2	354
		48.1	48.2	271.3	266.9	6	11	88.1	92.6	48.2	48.2		
		50.5	50.6	270.7	266.5	6	21	87.4	92.3	45.8	45.8		
97	4.4	50.9	51.6	264.0	260.1	6	14	95.7	99.0	55.7	56.4	4.7	1261
		53.3	54.0	263.6	260.0	6	24	95.2	98.8	53.3	53.9		
		55.7	56.5	263.2	259.8	6	34	94.7	98.7	50.9	51.5		
135	3.7	40.0	40.0	272.5	266.6	6	25	87.1	92.1	44.8	44.8	2.2	354
		42.4	42.5	271.8	266.3	6	35	86.3	91.8	42.4	42.3		
		44.8	45.0	271.1	266.1	6	45	85.5	91.4	40.0	39.9		
1091	4.9	49.5	49.6	271.1	266.8	6	36	89.1	92.7	54.4	54.5	5.4	1263
		51.9	52.0	270.4	266.5	6	46	88.4	92.3	52.0	52.0		
		54.3	54.5	269.7	266.2	6	56	87.7	92.0	49.6	49.5		
149	3.2	42.8	43.4	266.1	260.8	6	54	93.0	97.5	47.5	48.0	3.8	381
		45.2	45.8	265.6	260.8	7	4	92.5	97.4	45.1	45.5		
		47.6	48.2	265.2	260.7	7	14	91.9	97.3	42.7	43.1		
1097	4.8	55.7	55.5	274.0	270.6	7	13	85.6	88.4	60.8	60.5	4.6	1292
		58.1	58.0	273.3	270.2	7	23	84.8	87.9	58.4	58.0		
		60.5	60.4	272.6	269.7	7	33	84.0	87.4	56.0	55.6		
135	3.7	55.5	55.8	268.3	264.9	7	29	92.7	95.6	60.3	60.7	4.8	1299
		57.9	58.2	267.7	264.6	7	39	92.2	95.3	57.9	58.2		
		60.3	60.7	267.1	264.3	7	49	91.6	95.0	55.5	55.8		
1120	5.2	49.6	49.1	278.0	273.7	7	39	83.5	87.1	54.5	54.1	4.6	1292
		52.0	51.5	277.0	273.1	7	49	82.7	86.6	52.1	51.7		
		54.4	54.0	276.2	272.6	7	59	81.8	86.0	49.7	49.2		
169	4.1	51.0	50.5	278.0	273.9	7	57	80.4	83.8	55.9	55.2	4.5	437
		53.4	52.9	277.1	273.3	8	7	79.5	83.2	53.5	52.8		
		55.8	55.4	276.2	272.8	8	17	78.5	82.5	51.1	50.3		
169	4.1	56.0	55.6	276.1	272.7	8	18	82.2	85.0	61.2	60.6	4.0	460
		58.4	58.1	275.3	272.2	8	28	81.3	84.4	58.8	58.2		
		60.8	60.5	274.6	271.8	8	38	80.4	83.8	56.4	55.7		
199	4.3	53.0	53.2	270.2	266.5	8	44	89.9	93.1	57.7	57.8	4.8	475
		55.5	55.6	269.6	266.1	8	54	89.3	92.7	55.3	55.3		
		57.9	58.1	269.0	265.8	9	4	88.6	92.4	52.8	52.9		
194	4.3	56.2	56.3	270.1	266.7	9	2	88.0	90.7	61.3	61.3	4.5	490
		58.6	58.8	269.4	265.4	9	12	87.3	90.3	58.9	58.8		
		61.0	61.3	268.8	265.0	9	22	86.6	89.9	56.5	56.3		
1146	4.3	56.4	57.1	263.9	260.7	9	12	94.6	97.3	61.3	61.9	1.2	499
		58.8	59.5	263.4	260.5	9	22	94.0	97.0	58.9	59.4		
		61.2	62.0	263.0	260.3	9	32	93.5	96.8	56.5	57.0		
220	2.2	55.6	55.9	268.4	265.0	9	34	91.5	94.3	60.5	60.8	5.2	1355
		58.0	58.3	267.8	264.7	9	44	90.9	94.0	58.1	58.3		
		60.4	60.8	267.2	264.4	9	54	90.3	93.7	55.7	55.8		
266	4.3	41.6	41.9	268.7	263.1	9	44	88.8	93.6	46.5	46.6	4.9	1335
		44.0	44.4	268.1	263.0	9	54	88.1	93.3	44.1	44.2		
		46.4	46.8	267.6	262.9	10	4	87.4	93.0	41.7	41.7		
266	4.3	45.2	45.6	267.9	262.9	9	59	92.0	96.1	50.0	50.4	1.2	458
		47.6	48.0	267.3	262.8	10	9	91.4	95.9	47.6	47.9		
		50.0	50.5	266.8	262.6	10	19	90.8	95.7	45.2	45.5		
266	4.3	51.1	51.4	266.6	262.5	10	23	92.3	95.6	55.9	56.2	4.3	523
		53.4	53.9	266.0	262.4	10	33	91.7	95.4	53.5	53.8		
		55.8	56.3	265.5	262.2	10	43	91.1	95.1	51.1	51.3		
1196	5.0	52.7	52.3	276.2	272.4	10	39	82.9	86.1	57.7	57.2	5.0	533
		55.1	54.8	275.4	271.9	10	49	82.0	85.5	55.3	54.7		
		57.5	57.2	274.6	271.4	10	59	81.1	84.9	52.9	52.3		
289	5.2	49.6	49.1	277.6	273.3	10	53	81.7	85.3	54.3	53.8	5.0	533
		52.0	51.6	276.7	272.7	11	3	80.7	84.7	51.9	51.3		
		54.4	54.0	275.8	272.2	11	13	79.8	84.0	49.6	48.8		
304	5.1	47.0	46.4	279.2	274.6	11	4	80.7	84.6	51.7	51.1	5.0	533
		49.4	48.8	278.3	273.9	11	14	79.7	84.0	49.3	48.6		
		51.8	51.3	277.3	273.4	11	24	78.6	83.3	46.9	46.2		
293	4.1	53.3	53.6	269.2	265.5	11	18	91.8	94.9	58.3	58.6	2.7	564
		55.8	56.0	268.6	265.2	11	28	91.2	94.6	55.9	56.1		
		58.2	58.5	268.0	264.9	11	38	90.6	94.3	53.4	53.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT-15	LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10	LAT-15	LAT-10		
304	5.1	56.6	56.2	275.7	272.3	11	44	85.6	86.3	61.3	61.0	3.6	585
		59.0	58.7	274.9	271.8	11	54	84.8	87.8	58.9	58.5		
		61.4	61.1	274.1	271.4	12	4	84.0	87.3	56.5	56.1		
316	4.0	53.4	53.0	276.5	272.7	11	57	84.6	87.7	58.1	57.8	3.6	585
		55.8	55.5	275.6	272.2	12	7	83.8	87.2	55.7	55.4		
		58.2	57.9	274.8	271.7	12	17	82.9	86.6	53.3	52.9		
316	4.0	56.3	56.0	275.5	272.1	12	9	85.8	88.6	61.1	60.9	3.0	603
		58.7	58.4	274.7	271.6	12	19	85.1	88.1	58.7	58.4		
		61.1	60.9	273.9	271.2	12	29	84.3	87.6	56.3	56.0		
325	5.2	55.5	56.1	265.1	261.7	12	28	93.8	96.6	60.5	60.9	2.7	622
		57.9	58.5	264.6	261.5	12	38	93.2	96.3	58.1	58.5		
		60.3	61.0	264.1	261.3	12	48	92.6	96.0	55.6	56.0		
1261	4.7	37.6	38.0	268.1	261.7	12	39	88.6	94.0	42.7	42.8	4.8	1409
		40.4	40.5	267.6	261.7	12	49	87.8	93.7	40.3	40.4		
		42.4	42.9	267.1	261.7	12	59	87.0	93.5	37.9	37.9		
381	3.8	44.6	45.0	267.6	262.6	13	13	91.2	95.4	49.6	49.9	2.7	622
		47.0	47.4	267.1	262.5	13	23	90.6	95.2	47.2	47.4		
		49.4	49.9	266.6	262.3	13	33	89.9	94.9	44.8	45.0		
1263	5.4	50.7	50.7	271.9	267.8	13	42	85.9	89.3	55.8	55.6	4.6	647
		53.1	53.2	271.2	267.5	13	52	85.1	88.8	53.4	53.1		
		55.5	55.6	270.6	267.1	14	2	84.3	88.4	51.0	50.6		
381	3.8	54.4	55.0	265.5	262.0	13	54	92.7	95.6	59.6	60.0	3.5	673
		56.9	57.4	265.0	261.8	14	4	92.1	95.3	57.2	57.5		
		59.3	59.9	264.5	261.6	14	14	91.5	95.0	54.8	55.1		
1272	4.6	51.1	50.6	277.7	273.6	14	38	83.3	86.7	56.0	55.6	3.4	686
		53.5	53.1	276.8	273.1	14	48	82.4	86.1	53.6	53.1		
		55.9	55.5	276.0	272.6	14	58	81.5	85.5	51.3	50.7		
1299	4.8	48.9	49.1	270.1	265.8	14	55	89.4	93.0	54.0	54.1	4.1	1482
		51.3	51.5	269.5	265.5	15	5	88.7	92.7	51.5	51.6		
		53.7	54.0	268.9	265.2	15	15	88.0	92.3	49.1	49.1		
1299	4.8	53.5	53.7	268.9	265.3	15	14	90.2	93.3	58.5	58.6	5.4	1500
		55.9	56.2	268.3	265.0	15	24	89.6	92.9	56.1	56.2		
		58.3	58.6	267.7	264.7	15	34	88.9	92.6	53.6	53.7		
1299	4.8	56.6	56.9	268.2	264.9	15	27	89.9	92.7	61.4	61.5	5.0	737
		59.0	59.4	267.6	264.6	15	37	89.3	92.3	59.0	59.0		
		61.4	61.8	267.0	264.3	15	47	88.6	91.9	56.6	56.6		
1335	4.0	40.3	40.3	273.1	267.2	15	37	88.0	92.9	45.3	45.4	4.7	1486
		42.7	42.8	272.3	266.9	15	47	87.2	92.6	42.9	42.9		
		45.1	45.2	271.6	266.6	15	57	86.4	92.3	40.5	40.5		
1335	4.9	40.6	40.6	273.0	267.1	15	38	86.9	91.8	45.6	45.5	5.1	702
		43.0	43.0	272.2	266.9	15	48	86.1	91.5	43.2	43.1		
		45.4	45.5	271.5	266.6	15	58	85.3	91.1	40.8	40.6		
499	4.5	40.2	39.6	279.5	273.6	15	48	81.6	86.6	44.9	44.4	4.5	1489
		42.6	42.1	278.4	273.0	15	58	80.5	86.0	42.6	42.0		
		45.0	44.6	277.4	272.4	16	8	79.4	85.4	40.2	39.5		
1335	4.9	47.1	47.2	271.0	266.4	16	5	87.3	91.2	52.2	52.2	5.0	737
		49.5	49.7	270.3	266.1	16	15	86.6	90.8	49.8	49.7		
		51.9	52.1	269.7	265.8	16	25	85.8	90.4	47.4	47.2		
1355	5.2	38.5	38.4	275.0	268.7	16	16	85.8	91.1	43.5	43.4	5.4	1500
		40.9	40.8	274.2	268.4	16	26	84.9	90.7	41.1	40.9		
		43.3	43.3	273.3	268.0	16	36	84.0	90.3	38.7	38.5		
1355	5.2	41.6	41.6	273.9	268.3	16	29	85.5	90.2	46.4	46.2	5.0	737
		44.1	44.0	273.1	267.9	16	39	84.6	89.8	44.0	43.8		
		46.5	46.5	272.3	267.6	16	49	83.7	89.4	41.6	41.3		
1335	4.9	56.3	56.5	268.6	265.2	16	43	92.1	94.9	60.9	61.2	4.8	1547
		59.7	59.0	268.0	264.9	16	53	91.5	94.6	58.5	58.7		
		61.1	61.4	267.4	264.6	17	3	90.9	94.3	56.1	56.3		
498	1.2	51.6	52.0	267.6	263.7	16	56	91.7	94.9	56.4	56.7	3.8	761
		54.1	54.5	267.1	263.5	17	6	91.0	94.7	54.0	54.3		
		56.5	56.9	266.5	263.2	17	16	90.4	94.4	51.6	51.8		
1371	4.6	40.9	41.5	266.9	261.2	17	7	93.1	97.9	46.0	46.5	4.6	1527
		43.4	43.9	266.4	261.2	17	17	92.6	97.8	43.6	44.0		
		45.8	46.3	265.9	261.1	17	27	92.1	97.7	41.2	41.6		
1371	4.6	41.2	41.7	266.9	261.2	17	8	93.1	97.9	45.9	46.3	3.8	761
		43.6	44.1	266.4	261.2	17	18	92.6	97.8	43.4	43.9		
		46.0	46.6	265.9	261.1	17	28	92.1	97.8	41.0	41.5		
523	4.3	45.8	46.0	270.3	265.5	17	19	90.2	94.3	50.9	51.1	3.8	781
		48.2	48.5	269.6	265.2	17	29	89.6	94.0	48.5	48.6		
		50.7	50.9	269.0	264.9	17	39	88.9	93.7	46.1	46.2		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z _D	Z _D	LAT-15	LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10		
1355	5.2	56.1	56.3	269.6	266.3	17	29	90.8	93.6	60.9	61.1	4.8	1569
		58.5	58.8	269.0	265.9	17	39	90.2	93.3	58.5	58.7		
		61.0	61.2	268.4	265.6	17	49	89.6	92.9	56.1	56.2		
1371	4.6	49.1	49.7	265.3	261.0	17	41	95.3	98.9	53.8	54.4	5.5	1562
		51.5	52.2	264.8	260.9	17	51	94.8	98.7	51.4	52.0		
		53.9	54.6	264.3	260.7	18	1	94.3	98.6	49.0	49.5		
564	2.7	39.0	38.9	273.7	267.5	17	54	87.5	92.7	43.8	43.8	4.8	1547
		41.4	41.4	272.9	267.2	18	4	86.7	92.4	41.3	41.3		
		43.8	43.9	272.1	266.9	18	14	85.9	92.1	38.9	38.8		
523	4.3	56.9	57.3	267.5	264.3	18	5	91.0	93.7	61.7	61.9	4.3	840
		59.4	59.8	266.9	264.0	18	15	90.3	93.3	59.3	59.4		
		61.8	62.2	266.3	263.7	18	25	89.7	93.0	56.8	57.0		
564	2.7	44.5	44.6	271.9	266.8	18	17	87.6	91.9	49.3	49.3	4.8	1569
		47.0	47.1	271.2	266.5	18	27	86.9	91.6	46.9	46.8		
		49.4	49.5	270.5	266.2	18	37	86.1	91.2	44.5	44.4		
545	4.0	56.7	56.6	273.2	269.9	18	30	86.8	89.5	61.5	61.4	5.3	1595
		59.1	59.0	272.5	269.5	18	40	86.0	89.0	59.1	58.9		
		61.5	61.5	271.8	269.1	18	50	85.3	88.6	56.7	56.5		
1469	4.8	47.0	47.2	270.2	265.6	18	45	88.3	92.2	52.0	52.0	4.3	840
		49.4	49.7	269.6	265.3	18	55	87.6	91.9	49.6	49.6		
		51.9	52.1	269.0	265.1	19	5	86.9	91.5	47.2	47.1		
585	3.6	47.6	47.0	279.3	274.8	18	56	80.0	83.9	52.2	51.5	4.0	842
		50.0	49.4	278.4	274.2	19	6	79.3	83.2	49.9	49.1		
		52.4	51.9	277.5	273.6	19	16	77.9	82.5	47.5	46.6		
622	2.7	39.4	39.6	271.6	265.5	19	17	85.9	91.1	44.3	44.2	4.3	840
		41.9	42.0	270.9	265.3	19	27	85.1	90.7	41.9	41.7		
		44.3	44.5	270.2	265.1	19	37	84.2	90.2	39.5	39.2		
622	2.7	43.8	44.0	270.4	265.2	19	35	87.1	91.5	48.6	48.6	3.8	864
		46.2	46.4	269.7	264.9	19	45	86.3	91.1	46.2	46.1		
		48.6	48.9	269.1	264.7	19	55	85.5	90.7	43.8	43.6		
622	2.7	46.4	46.7	269.6	264.9	19	46	89.8	93.8	51.3	51.4	4.5	1608
		49.9	49.1	269.0	264.7	19	56	89.2	93.5	48.9	48.0		
		51.3	51.6	268.4	264.4	20	6	88.5	93.2	46.4	46.5		
622	2.7	46.7	46.9	269.6	264.9	19	47	90.6	94.6	51.7	51.9	5.2	1609
		49.1	49.4	269.0	264.7	19	57	90.0	94.3	49.3	49.4		
		51.5	51.8	268.4	264.4	20	7	89.3	94.0	46.8	47.0		
605	3.3	55.2	54.9	274.8	271.3	19	58	85.5	88.4	60.0	59.7	5.1	900
		57.6	57.4	274.1	270.9	20	8	84.7	87.9	57.6	57.3		
		60.0	59.9	273.3	270.4	20	18	83.9	87.4	55.2	54.8		
622	2.7	54.2	54.5	267.7	264.1	20	18	91.5	94.5	58.9	59.2	3.8	9
		56.6	57.0	267.1	263.9	20	28	90.9	94.2	56.5	56.8		
		59.0	59.4	266.6	263.6	20	38	90.3	93.9	54.1	54.3		
647	4.6	46.9	46.4	277.2	272.5	20	32	82.7	86.7	51.8	51.4	5.1	900
		49.3	48.9	276.3	272.0	20	42	81.8	86.1	49.5	48.9		
		51.7	51.4	275.5	271.5	20	52	80.9	85.5	47.1	46.5		
1445	5.0	56.8	56.5	274.9	271.6	20	47	83.3	86.0	62.0	61.5	4.9	1022
		59.2	59.0	274.1	271.1	20	57	82.5	85.4	59.6	59.0		
		61.6	61.5	273.4	270.6	21	7	81.6	84.8	57.2	56.6		
673	3.5	44.2	44.3	271.3	266.2	20	58	88.9	93.2	49.3	49.4	3.8	9
		46.6	46.9	270.7	265.9	21	8	88.2	92.9	46.9	46.9		
		49.0	49.2	270.0	265.7	21	18	87.5	92.6	44.5	44.5		
1482	4.1	38.2	38.0	275.7	269.4	21	8	82.9	88.3	43.3	43.0	4.7	1630
		40.6	40.5	274.8	269.0	21	18	81.9	87.7	40.9	40.5		
		43.0	42.9	274.0	268.6	21	28	80.9	87.2	38.6	38.0		
1482	4.1	38.7	38.5	275.5	269.3	21	10	82.6	87.9	43.7	43.3	4.7	1002
		41.1	41.0	274.6	268.9	21	20	81.6	87.3	41.4	40.9		
		43.5	43.4	273.8	268.5	21	30	80.5	86.8	39.0	38.4		
1486	4.7	39.2	39.1	274.0	267.9	21	20	87.4	92.5	44.0	44.0	3.8	9
		41.6	41.6	273.2	267.6	21	30	86.6	92.2	41.6	41.5		
		44.0	44.1	272.4	267.2	21	40	85.7	91.9	39.2	39.1		
673	3.5	52.2	52.4	269.2	265.3	21	31	90.2	93.5	57.1	57.2	3.8	47
		54.6	54.9	268.6	265.0	21	41	89.6	93.1	54.6	54.8		
		57.0	57.3	268.0	264.7	21	51	88.9	92.8	52.2	52.3		
1486	4.7	46.9	47.0	271.5	266.9	21	52	88.9	92.8	52.0	52.1	3.8	47
		49.4	49.5	270.9	266.6	22	2	88.2	92.4	49.6	49.6		
		51.8	51.9	270.2	266.3	22	12	87.4	92.1	47.2	47.1		
702	5.1	47.1	47.0	272.6	267.9	21	53	88.8	92.7	51.7	51.8	3.8	47
		49.5	49.5	271.9	267.6	22	3	88.1	92.4	49.3	49.4		
		51.9	51.9	271.2	267.2	22	13	87.3	92.0	46.9	46.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.		LAT-15	LAT-10	LAT-15	LAT-10	HRS	MIN	LAT-15	LAT-10		
1489	4.5	49.7	49.3	276.6	272.3	22	4	83.9	87.5	54.7	54.3	5.3	1049
		52.1	51.8	275.7	271.8	22	14	83.1	87.0	52.3	51.9		
		54.5	54.2	274.9	271.3	22	24	82.2	86.4	49.9	49.4		
717	3.6	47.5	47.0	277.2	272.6	22	14	83.1	87.0	52.3	51.9	5.3	1049
		49.9	49.5	276.3	272.1	22	24	82.2	86.4	49.9	49.4		
		52.3	52.0	275.5	271.6	22	34	81.2	85.8	47.5	47.0		
717	3.6	56.4	56.1	274.1	270.8	22	51	86.0	88.8	61.2	61.0	5.3	1080
		58.8	58.6	273.4	270.3	23	1	85.3	88.3	58.8	58.5		
		61.2	61.1	272.6	269.9	23	11	84.5	87.8	56.4	56.0		
1509	5.2	55.9	55.4	276.9	273.5	23	11	83.0	85.7	60.9	60.4	5.1	116
		58.2	57.9	276.1	273.0	23	21	82.1	85.2	58.5	58.0		
		60.7	60.3	275.3	272.5	23	31	81.3	84.6	56.1	55.5		
737	5.0	56.2	56.2	271.5	268.1	23	23	87.7	90.4	61.3	61.2	4.8	1097
		58.6	58.6	270.8	267.8	23	33	86.9	90.0	58.9	58.8		
		61.7	61.1	270.2	267.4	23	43	86.2	89.5	56.5	56.3		
781	3.8	42.9	42.9	272.0	266.7	23	41	88.6	93.1	47.8	47.9	4.1	104
		45.3	45.4	271.3	266.4	23	51	87.9	92.8	45.4	45.5		
		47.7	47.9	270.6	266.1	24	1	87.1	92.5	43.0	43.0		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-10	LAT -5	LAT-10	LAT -5			LAT-10	LAT -5	LAT-10	LAT -5		
781	3.8	45.4	45.9	266.4	261.5	23	51	93.3	97.4	50.2	50.7	4.9	1091
		47.9	48.4	266.1	261.6	0	1	93.0	97.5	47.8	48.2		
		50.3	50.9	265.8	261.7	0	11	92.7	97.6	45.3	45.8		
808	3.1	38.0	38.0	273.6	267.2	0	3	84.9	90.2	43.3	43.0	5.3	1080
		40.5	40.4	273.0	267.1	0	13	84.2	90.0	40.8	40.5		
		42.9	42.9	272.4	267.1	0	23	83.4	89.8	38.4	38.1		
781	3.8	52.3	52.8	265.6	261.8	0	19	91.8	95.0	57.4	57.7	4.1	154
		54.7	55.3	265.3	261.8	0	29	91.4	94.9	54.9	55.2		
		57.2	57.8	265.0	261.8	0	39	91.0	94.9	52.4	52.7		
1543	4.6	55.7	55.8	270.6	267.2	0	31	88.3	91.1	60.9	60.9	4.1	169
		58.2	58.3	270.2	267.1	0	41	87.8	90.9	58.5	58.4		
		60.7	60.8	269.7	266.9	0	51	87.3	90.7	56.0	55.9		
1569	4.8	46.3	46.6	268.5	263.8	0	44	90.8	94.8	51.2	51.5	4.1	154
		48.7	49.1	268.2	263.8	0	54	90.4	94.8	48.7	49.0		
		51.2	51.6	267.8	263.8	1	4	90.0	94.8	46.3	46.5		
808	3.1	51.5	51.6	270.7	266.7	0	58	87.3	90.6	56.6	56.5	4.2	176
		54.0	54.1	270.3	266.6	1	8	86.8	90.4	54.1	54.0		
		56.4	56.6	269.8	266.5	1	18	86.3	90.2	51.7	51.5		
808	3.1	54.2	54.4	270.2	266.6	1	9	90.0	93.0	59.1	59.2	2.9	188
		56.7	56.9	269.8	266.5	1	19	89.6	92.8	56.6	56.7		
		59.2	59.3	269.3	266.4	1	29	89.1	92.7	54.2	54.2		
827	3.2	49.5	49.0	278.1	273.8	1	20	79.7	83.3	54.5	53.8	3.9	180
		51.9	51.4	277.4	273.5	1	30	79.0	82.9	52.1	51.3		
		54.4	53.9	276.7	273.1	1	40	78.1	82.4	49.7	48.8		
1595	5.3	43.6	43.4	274.3	269.0	1	31	85.5	90.0	48.5	48.3	4.2	176
		46.0	45.9	273.6	268.8	1	41	84.9	89.7	46.0	45.8		
		49.5	48.4	273.1	268.6	1	51	84.2	89.5	43.6	43.3		
842	4.0	50.5	50.1	276.4	272.2	1	41	83.5	87.0	55.5	55.0	4.7	1147
		52.9	52.6	275.7	272.0	1	51	82.9	86.7	53.0	52.6		
		55.4	55.1	275.1	271.7	2	1	82.2	96.3	50.6	50.1		
827	3.2	57.3	56.9	276.0	272.8	1	52	84.0	86.7	62.0	61.6	5.3	1161
		59.7	59.4	275.4	272.5	2	2	83.4	86.4	59.6	59.1		
		62.2	61.9	274.9	272.2	2	12	82.8	86.0	57.1	56.7		
864	3.8	47.3	47.6	268.7	264.1	2	3	89.8	93.6	52.5	52.6	2.9	209
		49.8	50.1	268.4	264.2	2	13	89.4	93.5	50.0	50.1		
		52.2	52.6	268.0	264.1	2	23	88.9	93.5	47.5	47.6		
1607	4.4	44.9	45.0	271.3	266.3	2	14	89.3	93.5	49.8	49.9	2.9	209
		47.3	47.5	270.8	266.2	2	24	88.8	93.5	47.3	47.4		
		49.8	49.9	270.4	266.2	2	34	88.4	93.4	44.8	44.9		
864	3.8	54.0	54.3	267.7	264.1	2	30	89.5	92.5	58.9	59.0	5.0	246
		56.4	56.8	267.4	264.1	2	40	89.1	92.4	56.5	56.5		
		58.9	59.3	267.0	264.0	2	50	88.6	92.2	54.0	54.0		
1607	4.4	51.3	51.4	270.1	266.1	2	40	89.1	92.4	56.5	56.5	5.0	246
		53.7	53.9	269.7	266.0	2	50	88.6	92.2	54.0	54.0		
		56.2	56.4	269.3	265.9	3	0	88.1	92.1	51.5	51.5		
884	4.9	53.7	53.1	278.9	275.2	2	57	80.9	84.0	58.5	57.9	4.7	258
		56.1	55.6	278.2	274.8	3	7	80.2	83.6	56.1	55.4		
		58.6	58.0	277.6	274.5	3	17	79.4	83.1	53.7	52.9		
9	3.8	42.1	42.5	267.7	262.2	3	9	91.4	96.0	46.9	47.2	5.1	1170
		44.5	45.0	267.4	262.4	3	19	91.0	96.1	44.4	44.7		
		47.0	47.4	267.1	262.5	3	29	90.6	96.1	42.0	42.2		
30	5.2	38.1	38.8	265.3	259.0	3	24	90.8	96.1	43.2	43.5	5.1	1170
		40.5	41.2	265.1	259.4	3	34	90.4	96.2	40.7	41.0		
		43.0	43.6	264.9	259.7	3	44	90.0	96.3	38.3	38.5		
1630	4.7	54.1	54.2	269.7	266.0	3	39	88.8	91.8	59.1	59.1	5.2	289
		56.5	56.7	269.2	265.9	3	49	88.3	91.6	56.6	56.6		
		59.0	59.2	268.8	265.8	3	59	87.8	91.4	54.2	54.1		
1002	4.7	53.8	53.9	270.1	266.4	3	41	88.7	91.7	58.6	58.6	5.2	289
		56.2	56.4	269.7	266.3	3	51	88.2	91.5	56.1	56.1		
		58.7	58.9	269.2	266.2	4	1	87.7	91.4	53.7	53.6		
1022	4.9	45.6	45.1	278.1	273.2	3	52	82.2	86.4	50.3	49.8	4.1	1187
		48.7	47.6	277.4	272.9	4	2	81.5	86.0	47.9	47.4		
		50.5	50.1	276.7	272.6	4	12	80.7	85.6	45.5	44.9		
40	3.6	45.8	46.5	265.3	260.5	4	14	94.2	98.2	50.8	51.3	4.1	293
		48.3	48.9	265.1	260.7	4	24	93.9	98.3	48.3	48.8		
		50.7	51.4	264.8	260.8	4	34	93.6	98.4	45.9	46.4		
1049	5.3	44.6	44.4	274.8	269.7	4	40	86.3	90.5	49.7	49.6	5.1	304
		47.1	46.9	274.1	269.5	4	50	85.7	90.3	47.2	47.1		
		49.6	49.4	273.6	269.3	5	0	85.0	90.1	44.8	44.6		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-10	LAT -5	LAT-10	LAT -5					LAT-10	LAT -5	LAT-10	LAT -5
1049	5.3	50.8	50.7	273.3	269.2	5	5	87.3	90.7	55.8	55.7	5.2	1230
		53.2	53.2	272.7	269.0	5	15	86.7	90.5	53.3	53.2		
		55.7	55.7	272.2	268.8	5	25	86.2	90.3	50.9	50.7		
1049	5.3	57.2	57.1	271.9	268.7	5	31	85.9	88.5	62.2	62.0	4.1	1250
		59.6	59.6	271.5	268.5	5	41	85.3	88.3	59.8	59.5		
		62.1	62.1	271.0	268.3	5	51	84.8	88.0	57.3	57.0		
1080	5.3	41.7	41.5	275.6	269.9	5	42	85.2	89.9	46.7	46.5	5.2	1230
		44.2	44.0	274.9	269.7	5	52	84.5	89.7	44.2	44.0		
		46.6	46.5	274.3	269.5	6	2	83.8	89.4	41.8	41.5		
104	4.1	45.7	46.2	267.2	262.3	6	1	92.9	97.0	50.7	51.1	2.2	354
		48.2	48.7	266.9	262.4	6	11	92.6	97.0	48.2	48.7		
		50.6	51.1	266.5	262.5	6	21	92.3	97.1	45.8	46.2		
1091	4.9	43.4	43.9	267.6	262.4	6	11	92.6	97.0	48.2	48.7	2.2	354
		45.9	46.3	267.3	262.5	6	21	92.3	97.1	45.8	46.2		
		48.3	48.8	266.9	262.5	6	31	91.9	97.2	43.3	43.7		
135	3.7	39.8	40.4	266.6	260.7	6	24	92.2	97.1	45.0	45.4	2.2	354
		42.3	42.8	266.3	260.9	6	34	91.8	97.2	42.6	43.0		
		44.7	45.3	266.1	261.1	6	44	91.5	97.3	40.1	40.5		
1111	5.3	40.5	39.9	279.4	273.5	6	40	81.5	86.4	45.3	44.8	4.1	1250
		42.9	42.4	278.5	273.1	6	50	80.7	86.1	42.9	42.3		
		45.4	44.9	277.7	272.7	7	0	79.8	85.6	40.5	39.8		
1097	4.8	49.8	49.9	271.7	267.5	6	50	86.1	89.7	54.7	54.5	5.2	1270
		52.3	52.4	271.2	267.4	7	0	85.6	89.4	52.3	52.0		
		54.8	54.9	270.7	267.2	7	10	85.0	89.2	49.8	49.6		
1097	4.8	55.5	55.6	270.6	267.2	7	13	88.4	91.2	60.5	60.5	4.6	1292
		58.0	58.1	270.2	267.0	7	23	87.9	91.1	58.0	58.0		
		60.4	60.6	269.7	266.9	7	33	87.4	90.9	55.6	55.5		
176	4.2	40.9	40.5	276.6	270.8	7	27	83.9	88.8	45.6	45.3	5.2	1270
		43.3	43.0	275.9	270.5	7	37	83.1	88.5	43.2	42.8		
		45.8	45.5	275.2	270.3	7	47	82.4	88.2	40.8	40.3		
188	2.9	37.7	37.6	274.6	268.1	7	38	83.1	88.5	42.9	42.6	5.2	1270
		40.2	40.1	273.9	268.0	7	48	82.3	88.2	40.5	40.1		
		42.7	42.6	273.3	267.9	7	58	81.4	87.8	38.1	37.6		
169	4.1	50.2	50.1	273.9	269.8	7	56	83.9	87.4	55.4	55.1	4.5	437
		52.7	52.5	273.4	269.6	8	6	83.3	87.1	53.0	52.6		
		55.1	55.0	272.8	269.4	8	16	82.6	86.7	50.6	50.1		
209	2.9	40.2	40.2	272.7	266.7	8	16	85.0	90.0	45.0	44.8	4.6	1292
		42.6	42.7	272.1	266.7	8	26	84.3	89.8	42.6	42.3		
		45.1	45.2	271.6	266.6	8	36	83.6	89.5	40.1	39.8		
210	1.8	43.3	42.8	278.9	273.6	8	26	81.9	86.4	48.1	47.6	4.5	437
		45.8	45.3	278.1	273.3	8	36	81.1	86.0	45.7	45.1		
		48.2	47.8	277.4	272.9	8	46	80.3	85.6	43.2	42.6		
210	1.8	48.5	48.0	277.3	272.9	8	47	83.2	86.9	53.5	53.1	4.0	460
		50.9	50.5	276.6	272.6	8	57	82.5	86.6	51.1	50.6		
		53.4	53.0	276.0	272.3	9	7	81.8	86.2	48.6	48.1		
194	0.3	56.3	56.8	266.7	263.4	9	2	90.7	93.5	61.3	61.4	4.5	490
		58.8	59.2	266.4	263.4	9	12	90.3	93.3	58.8	59.0		
		61.3	61.7	266.0	263.3	9	22	89.9	93.2	56.3	56.5		
209	2.9	54.0	54.1	269.9	266.3	9	12	90.3	93.3	58.8	59.0	4.5	490
		56.4	56.6	269.5	266.2	9	22	89.9	93.2	56.3	56.5		
		58.9	59.1	269.1	266.1	9	32	89.4	93.1	53.9	54.0		
1170	5.1	48.2	48.6	268.4	264.0	9	34	89.4	93.1	53.4	53.5	4.5	490
		50.7	51.0	268.0	264.0	9	44	88.9	92.9	50.9	51.0		
		53.2	53.5	267.7	264.0	9	54	88.4	92.8	48.5	48.5		
1175	5.0	50.6	50.2	276.7	272.6	9	53	83.7	87.1	55.7	55.3	3.4	501
		53.0	52.6	276.1	272.3	10	3	83.1	86.8	53.2	52.8		
		55.5	55.1	275.5	272.0	10	13	82.4	86.5	50.8	50.3		
1175	5.0	54.2	53.9	275.8	272.2	10	8	82.0	85.0	59.0	58.5	4.3	516
		56.7	56.4	275.2	271.9	10	18	81.3	84.6	56.6	56.0		
		59.1	58.9	274.6	271.6	10	28	80.6	84.2	54.2	53.5		
1187	4.1	49.4	48.9	278.1	273.8	10	26	80.8	84.3	54.7	54.0	4.3	516
		51.9	51.4	277.4	273.4	10	36	80.0	83.9	52.2	51.5		
		54.3	53.9	276.7	273.1	10	46	79.2	83.5	49.8	49.1		
1186	5.0	52.3	52.3	272.4	268.5	10	39	86.1	89.3	57.2	57.0	5.0	533
		54.8	54.8	271.9	268.4	10	49	85.5	89.1	54.7	54.5		
		57.2	57.2	271.4	268.2	10	59	84.9	88.8	52.3	52.0		
1187	4.1	55.1	54.6	276.5	273.0	10	49	81.8	84.7	60.0	59.4	3.8	547
		57.5	57.1	275.9	272.7	10	59	81.2	84.4	57.6	56.9		
		60.0	59.6	275.3	272.4	11	9	80.5	84.0	55.1	54.5		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT-10	LAT -5	LAT-10	LAT -5					LAT-10	LAT -5	LAT-10	LAT -5
304	5.1	46.1	45.9	274.6	269.8	11	3	84.7	88.7	51.3	51.0	5.0	533
		48.6	48.4	274.0	269.6	11	13	84.0	88.4	48.8	48.5		
		51.1	50.9	273.4	269.4	11	23	83.4	88.1	46.4	46.0		
293	4.1	53.6	54.1	265.5	261.9	11	18	94.9	97.9	58.6	59.1	2.7	564
		56.0	56.6	265.2	261.9	11	28	94.6	97.9	56.1	56.6		
		58.5	59.1	264.9	261.9	11	38	94.3	97.9	53.7	54.2		
1230	5.2	40.2	39.8	276.7	270.7	11	28	83.0	88.0	45.2	44.8	5.0	533
		42.6	42.3	275.9	270.5	11	38	82.2	87.7	42.7	42.3		
		45.1	44.8	275.3	270.3	11	48	81.4	87.3	40.3	39.8		
304	5.1	56.2	56.2	272.3	269.0	11	44	88.3	91.1	61.0	61.0	3.6	585
		58.7	58.6	271.8	268.8	11	54	87.8	90.9	58.5	58.5		
		61.1	61.1	271.4	268.6	12	4	87.3	90.7	56.1	56.0		
316	4.0	53.0	52.9	272.7	269.0	11	57	87.7	90.8	57.8	57.7	3.6	585
		55.5	55.4	272.2	268.8	12	7	87.2	90.6	55.4	55.3		
		57.9	57.9	271.7	268.6	12	17	86.6	90.4	52.9	52.8		
316	4.0	56.0	55.9	272.1	268.7	12	9	88.6	91.4	60.9	60.9	3.0	603
		58.4	58.4	271.6	268.6	12	19	88.1	91.2	58.4	58.4		
		60.9	60.9	271.2	268.4	12	29	87.6	91.0	56.0	55.9		
1250	4.1	48.6	48.1	277.5	273.1	12	51	81.1	84.8	53.4	52.8	4.8	1427
		51.0	50.6	276.8	272.8	13	1	80.4	84.4	51.0	50.3		
		53.5	53.1	276.2	272.4	13	11	79.6	84.0	48.6	47.8		
1263	5.4	50.7	51.1	267.8	263.8	13	42	89.3	92.7	55.6	55.7	4.6	647
		53.2	53.5	267.5	263.8	13	52	88.8	92.6	53.1	53.2		
		55.6	56.0	267.1	263.8	14	2	88.4	92.5	50.6	50.7		
1292	4.6	50.6	50.5	273.6	269.5	14	38	86.7	90.1	55.6	55.5	3.4	686
		53.1	52.9	273.1	269.3	14	48	86.1	89.9	53.1	53.0		
		55.5	55.4	272.6	269.1	14	58	85.5	89.6	50.7	50.5		
1299	4.8	49.1	49.6	265.8	261.5	14	55	93.0	96.6	54.1	54.5	4.1	1482
		51.5	52.1	265.5	261.6	15	5	92.7	96.6	51.6	52.0		
		54.0	54.5	265.2	261.7	15	15	92.3	96.6	49.1	49.5		
1299	4.8	53.7	54.3	265.3	261.6	15	14	93.3	96.3	58.6	59.0	5.4	1500
		56.2	56.8	265.0	261.7	15	24	92.9	96.3	56.2	56.6		
		58.6	59.2	264.7	261.7	15	34	92.6	96.2	53.7	54.1		
1299	4.8	56.7	57.2	264.9	261.7	15	26	92.7	95.4	61.7	62.1	5.0	737
		59.1	59.7	264.6	261.7	15	36	92.3	95.3	59.3	59.6		
		61.6	62.2	264.3	261.7	15	46	92.0	95.2	56.8	57.1		
1335	4.9	40.3	40.8	267.2	261.4	15	37	92.9	97.8	45.4	45.8	4.7	1486
		42.8	43.3	266.9	261.5	15	47	92.6	97.9	42.9	43.4		
		45.2	45.7	266.6	261.7	15	57	92.3	98.1	40.5	40.9		
1335	4.9	40.6	41.1	267.1	261.4	15	38	91.8	96.7	45.5	45.9	5.1	702
		43.0	43.5	266.9	261.6	15	48	91.5	96.8	43.1	43.4		
		45.5	46.0	266.6	261.7	15	58	91.1	96.9	40.6	40.9		
490	4.5	39.6	39.6	273.6	267.5	15	48	86.6	91.7	44.4	44.4	4.5	1489
		42.1	42.1	273.0	267.4	15	58	86.0	91.6	42.0	41.9		
		44.6	44.6	272.4	267.3	16	8	85.4	91.4	39.5	39.4		
1335	4.9	47.2	47.7	266.4	261.8	16	5	91.2	95.1	52.2	52.4	5.0	737
		49.7	50.2	266.1	261.9	16	15	90.8	95.0	49.7	49.9		
		52.1	52.6	265.8	261.9	16	25	90.4	95.0	47.2	47.5		
1355	5.2	39.4	38.7	268.7	262.5	16	16	91.1	96.3	43.4	43.7	5.4	1500
		40.8	41.2	268.4	262.6	16	26	90.7	96.4	40.9	41.2		
		43.3	43.7	268.0	262.8	16	36	90.3	96.5	38.5	38.7		
1355	5.2	41.3	41.7	268.3	262.7	16	28	90.3	95.0	46.5	46.7	5.0	737
		43.8	44.2	268.0	262.8	16	38	89.9	95.0	44.0	44.2		
		46.2	46.6	267.6	262.9	16	48	89.4	95.0	41.6	41.8		
1335	4.9	56.3	56.8	265.3	262.0	16	42	94.9	97.6	61.4	62.0	4.8	1547
		58.7	59.3	265.0	262.0	16	52	94.6	97.6	59.0	59.5		
		61.2	61.8	264.7	262.0	17	2	94.3	97.6	56.5	57.1		
498	1.2	51.8	52.5	263.7	259.9	16	55	95.0	98.2	57.0	57.6	3.8	781
		54.2	54.9	263.5	260.0	17	5	94.7	98.2	54.5	55.1		
		56.7	57.4	263.3	260.1	17	15	94.4	98.2	52.1	52.6		
533	5.0	40.9	40.5	278.4	272.6	17	9	81.4	86.3	46.0	45.4	3.4	756
		43.4	43.0	277.5	272.2	17	19	80.6	85.9	43.5	42.9		
		45.8	45.4	276.8	271.9	17	29	79.7	85.5	41.1	40.5		
523	4.3	46.0	46.6	265.5	260.7	17	19	94.3	98.3	51.1	51.6	3.8	781
		48.5	49.1	265.2	260.9	17	29	94.0	98.3	48.6	49.2		
		50.9	51.5	264.9	261.0	17	39	93.7	98.4	46.2	46.7		
1355	5.2	56.3	56.8	266.3	263.0	17	29	93.6	96.3	61.1	61.5	4.8	1565
		58.8	59.2	265.9	263.0	17	39	93.3	96.3	58.7	59.1		
		61.2	61.7	265.6	262.9	17	49	92.9	96.2	56.2	56.6		

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z.D.		AZ		HRS	MIN	Z.D.		AZ			
		LAT-10	LAT -5	LAT-10	LAT -5			LAT-10	LAT -5	LAT-10	LAT -5		
525	4.2	51.6	51.8	270.4	266.4	17	43	90.2	93.5	56.5	56.6	3.1	808
		54.1	54.2	269.9	266.3	17	53	89.8	93.4	54.0	54.1		
		56.5	56.7	269.5	266.2	18	3	89.3	93.3	51.5	51.6		
560	2.7	38.9	39.4	267.5	261.4	17	54	92.7	97.9	43.8	44.2	4.8	1547
		41.4	41.9	267.2	261.6	18	4	92.4	98.0	41.3	41.8		
		43.9	44.4	266.9	261.8	18	14	92.1	98.2	38.8	39.3		
533	5.0	54.9	54.7	274.5	270.9	18	6	84.7	87.6	60.1	59.8	3.2	827
		57.4	57.2	273.9	270.7	18	16	84.1	87.3	57.7	57.3		
		59.8	59.6	273.4	270.4	18	26	83.5	87.0	55.2	54.8		
564	2.7	44.4	44.9	266.9	261.8	18	16	92.0	96.2	49.6	49.9	4.8	1569
		46.8	47.3	266.6	261.9	18	26	91.6	96.2	47.1	47.4		
		49.3	49.8	266.3	262.0	18	36	91.2	96.2	44.6	45.0		
545	4.0	56.6	56.7	269.9	266.6	18	30	89.5	92.2	61.4	61.5	5.3	1595
		59.0	59.2	269.5	266.5	18	40	89.0	92.1	58.9	59.0		
		61.5	61.7	269.1	266.4	18	50	88.6	91.9	56.5	56.5		
1479	4.3	47.2	47.8	265.6	261.0	18	45	92.2	96.1	52.0	52.4	4.3	840
		49.7	50.3	265.3	261.1	18	55	91.9	96.1	49.6	49.9		
		52.1	52.7	265.1	261.2	19	5	91.5	96.1	47.1	47.5		
585	3.6	46.7	46.5	274.8	270.1	18	55	84.0	87.9	51.8	51.4	4.0	842
		49.2	49.0	274.2	269.9	19	5	83.3	87.6	49.3	48.9		
		51.6	51.5	273.6	269.7	19	15	82.6	87.3	46.9	46.5		
564	2.7	56.4	56.9	265.4	262.1	19	5	95.1	97.8	61.5	62.1	4.5	1609
		58.8	59.4	265.1	262.1	19	15	94.8	97.7	59.0	59.6		
		61.3	61.9	264.8	262.1	19	25	94.5	97.7	56.6	57.1		
622	2.7	39.3	40.1	265.6	259.6	19	16	91.1	96.2	44.4	44.7	4.3	840
		41.8	42.4	265.3	259.9	19	26	90.7	96.2	42.0	42.3		
		44.2	44.9	265.1	260.1	19	36	90.3	96.3	39.5	39.8		
622	2.7	43.7	44.4	265.2	260.0	19	34	91.5	95.8	48.8	49.1	3.8	864
		46.2	46.9	265.0	260.2	19	44	91.1	95.9	46.4	46.7		
		48.6	49.3	264.7	260.4	19	54	90.7	95.9	43.9	44.2		
622	2.7	46.7	47.3	264.9	260.3	19	46	93.8	97.8	51.4	51.9	4.5	1608
		49.1	49.8	264.7	260.4	19	56	93.5	97.8	49.0	49.5		
		51.6	52.2	264.4	260.5	20	6	93.2	97.9	46.5	47.0		
655	2.3	54.0	55.1	271.2	267.9	19	58	88.4	91.3	59.7	59.7	5.1	900
		57.4	57.5	270.9	267.7	20	8	87.9	91.1	57.3	57.2		
		59.9	60.0	270.4	267.5	20	18	87.4	91.0	54.8	54.8		
622	2.7	54.2	54.9	264.2	260.6	20	17	94.5	97.4	59.5	60.0	3.8	9
		56.7	57.4	263.9	260.7	20	27	94.2	97.4	57.0	57.5		
		59.2	59.9	263.6	260.7	20	37	93.9	97.4	54.5	55.0		
647	4.6	46.4	46.4	272.5	267.8	20	32	86.7	90.7	51.4	51.7	5.1	900
		48.9	48.9	272.0	267.6	20	42	86.1	90.5	48.9	48.8		
		51.4	51.4	271.5	267.5	20	52	85.5	90.3	46.5	46.7		
1445	5.0	56.5	56.6	271.6	269.3	20	47	86.0	88.7	61.5	61.2	4.9	1022
		59.0	59.0	271.1	269.1	20	57	85.4	88.4	59.0	58.8		
		61.5	61.5	270.6	267.9	21	7	84.8	88.2	56.6	56.3		
673	3.5	44.3	44.9	266.2	261.2	20	58	93.2	97.5	49.4	49.9	3.8	9
		46.8	47.3	265.9	261.3	21	8	92.9	97.5	46.9	47.4		
		49.2	49.9	265.7	261.4	21	18	92.6	97.6	44.5	44.9		
1482	4.1	38.0	38.3	269.4	263.9	21	8	88.3	93.6	43.0	43.0	4.7	1636
		40.5	40.8	269.0	263.1	21	18	87.7	93.6	40.5	40.5		
		42.9	43.3	268.6	263.3	21	28	87.2	93.6	38.0	38.1		
1482	4.1	38.5	38.8	269.3	263.0	21	10	87.9	93.2	43.3	43.4	4.7	1002
		41.0	41.3	268.9	263.2	21	20	87.3	93.1	40.9	40.9		
		43.4	43.8	268.5	263.3	21	30	86.8	93.1	38.4	38.4		
1486	4.7	39.1	39.6	267.9	261.8	21	20	92.5	97.7	44.0	44.4	3.8	5
		41.6	42.1	267.6	262.1	21	30	92.2	97.8	41.5	42.0		
		44.1	44.5	267.2	262.1	21	40	91.9	98.0	39.1	39.5		
673	3.5	52.4	53.0	265.3	261.5	21	31	93.5	96.7	57.2	57.7	3.8	47
		54.9	55.5	265.0	261.6	21	41	93.1	96.6	54.8	55.2		
		57.3	57.9	264.7	261.6	21	51	92.8	96.6	52.3	52.7		
1486	4.7	47.0	47.5	266.9	262.3	21	52	92.8	96.6	52.1	52.5	3.8	47
		49.5	49.0	266.6	262.3	22	2	92.4	96.6	49.6	50.0		
		51.9	52.4	266.3	262.4	22	12	92.1	96.7	47.1	47.5		
762	5.1	47.0	47.4	267.9	263.3	21	53	92.7	96.6	51.8	52.2	3.8	47
		49.5	49.9	267.6	263.4	22	3	92.4	96.6	49.4	49.7		
		51.9	52.4	267.2	263.4	22	13	92.0	96.7	46.9	47.3		
1489	4.5	49.3	49.3	272.3	269.0	22	4	87.5	91.1	54.3	54.3	5.3	1045
		51.8	51.8	271.8	267.9	22	14	87.0	90.9	51.9	51.8		
		54.2	54.3	271.3	267.7	22	24	86.4	90.7	49.4	49.3		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAC	CATNO
		Z. D.		LAT-10	LAT -5	LAT-10	LAT -5	HRS	MIN	LAT-10	LAT -5		
717	3.6	47.0	47.0	272.6	267.9	22	14	87.0	90.9	51.9	51.8	5.3	1049
		49.5	49.5	272.1	267.8	22	24	86.4	90.7	49.4	49.3		
		52.0	52.0	271.6	267.7	22	34	85.8	90.5	47.0	46.8		
717	3.6	56.1	56.2	270.8	267.4	22	51	88.8	91.6	61.0	61.0	5.3	1080
		58.6	58.7	270.3	267.3	23	1	88.3	91.4	58.5	58.5		
		61.1	61.2	269.9	267.1	23	11	87.8	91.2	56.0	56.0		
756	3.4	46.8	46.3	278.3	273.6	23	15	81.7	85.6	51.6	51.1	4.0	91
		49.2	48.8	277.5	273.2	23	25	80.9	85.2	49.2	48.6		
		51.7	51.3	276.9	272.9	23	35	80.1	84.8	46.8	46.1		
746	4.9	54.5	53.9	278.4	274.8	23	26	80.1	83.0	59.3	58.6	5.0	1093
		56.9	56.4	277.8	274.5	23	36	79.4	82.6	56.9	56.1		
		59.4	58.9	277.1	274.1	23	46	78.6	82.2	54.5	53.7		
781	3.8	42.9	43.5	266.7	261.4	23	41	93.1	97.6	47.9	46.4	4.1	104
		45.4	45.9	266.4	261.5	23	51	92.8	97.7	45.5	45.9		
		47.9	48.4	266.1	261.6	24	1	92.5	97.8	43.0	43.4		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT -5	LAT 0	LAT -5	LAT 0	HRS	MIN	LAT -5	LAT 0	LAT -5	LAT 0		
1533	5.1	51.8	51.9	270.2	266.2	23	56	88.2	91.5	56.9	56.9	5.1	137
		54.2	54.4	270.0	266.4	0	6	87.9	91.5	54.4	54.4		
		56.7	56.9	269.7	266.5	0	16	87.6	91.6	51.9	51.9		
808	3.1	42.2	42.7	267.1	261.6	0	20	92.4	97.0	47.2	47.6	4.8	1097
		44.7	45.2	267.0	262.0	0	30	92.3	97.3	44.7	45.1		
		47.2	47.6	266.9	262.3	0	40	92.1	97.6	42.2	42.7		
1543	4.6	55.8	56.2	267.2	263.9	0	31	91.1	93.9	60.9	61.1	4.1	169
		58.3	58.7	267.1	264.0	0	41	90.9	94.0	58.4	58.6		
		60.8	61.2	266.9	264.2	0	51	90.7	94.1	55.9	56.1		
1569	4.8	46.6	47.3	263.8	259.2	0	44	94.8	98.7	51.5	52.0	4.1	154
		49.1	49.8	263.8	259.6	0	54	94.8	99.1	49.0	49.6		
		51.6	52.3	263.8	259.9	1	4	94.8	99.4	46.5	47.1		
808	3.1	51.4	51.8	266.7	262.8	0	57	90.7	93.9	56.7	56.9	4.2	176
		53.9	54.3	266.6	263.0	1	7	90.5	94.0	54.2	54.4		
		56.4	56.8	266.5	263.2	1	17	90.3	94.2	51.8	51.9		
809	3.1	54.4	54.8	266.6	263.1	1	9	93.0	95.9	59.2	59.6	2.9	188
		56.9	57.3	266.5	263.3	1	19	92.8	96.1	56.7	57.1		
		59.3	59.8	266.4	263.4	1	29	92.7	96.3	54.2	54.6		
827	3.2	48.7	48.6	273.8	269.4	1	19	83.4	87.0	54.0	53.6	3.9	180
		51.2	51.1	273.5	269.5	1	29	82.9	86.9	51.5	51.1		
		53.7	53.6	273.2	269.5	1	39	82.4	86.8	49.1	48.6		
840	4.3	48.6	49.3	263.9	259.6	1	31	92.7	96.3	53.7	54.1	2.9	188
		51.0	51.7	263.9	259.9	1	41	92.5	96.5	51.3	51.6		
		53.5	54.2	263.9	260.3	1	51	92.4	96.8	48.8	49.2		
842	4.0	50.1	50.1	272.2	268.1	1	41	87.0	90.5	55.0	54.9	4.7	1147
		52.6	52.6	272.0	268.1	1	51	86.7	90.5	52.6	52.4		
		55.1	55.1	271.7	268.2	2	1	86.3	90.5	50.1	49.9		
827	3.2	56.7	56.6	272.8	269.5	1	51	86.7	89.4	61.9	61.7	5.3	1161
		59.2	59.1	272.5	269.5	2	1	86.4	89.4	59.4	59.2		
		61.6	61.6	272.2	269.5	2	11	86.1	89.3	56.9	56.7		
864	3.8	47.6	48.3	264.1	259.7	2	3	93.6	97.4	52.6	53.1	2.9	299
		50.1	50.9	264.2	260.1	2	13	93.5	97.7	50.1	50.6		
		52.6	53.2	264.1	260.4	2	23	93.5	98.0	47.6	48.1		
1607	4.4	45.0	45.5	266.3	261.4	2	14	93.5	97.7	49.9	50.4	2.9	209
		47.5	48.0	266.2	261.7	2	24	93.5	98.0	47.4	47.9		
		49.9	50.5	266.2	262.0	2	34	93.4	98.3	44.9	45.4		
864	3.3	54.1	54.7	264.1	260.6	2	29	92.6	95.5	59.3	59.6	5.0	246
		56.5	57.2	264.1	260.8	2	39	92.4	95.7	56.8	57.1		
		59.0	59.7	264.0	261.1	2	49	92.3	95.8	54.3	54.6		
873	3.0	51.6	51.0	278.1	274.1	2	40	81.1	84.4	56.4	55.8	4.5	244
		54.0	53.5	277.6	273.9	2	50	80.6	84.3	54.0	53.3		
		56.5	56.0	277.2	273.8	3	0	80.1	84.1	51.5	50.8		
1620	4.6	49.2	47.8	276.8	272.3	2	52	80.5	84.2	53.5	52.8	4.5	244
		50.6	50.3	276.3	272.2	3	2	80.0	84.0	51.0	50.3		
		53.1	52.8	275.9	272.1	3	12	79.4	83.8	48.6	47.8		
1620	4.6	51.1	51.8	276.2	272.2	3	4	83.7	87.1	56.1	55.7	4.7	258
		53.6	53.3	275.8	272.1	3	14	83.3	87.0	53.7	53.2		
		56.1	55.8	275.4	272.0	3	24	82.8	86.9	51.2	50.7		
1630	4.7	50.8	51.3	266.2	262.1	3	25	91.7	95.1	55.9	56.2	5.0	1186
		53.3	53.8	265.1	262.4	3	35	91.5	95.2	53.4	53.7		
		55.7	56.2	266.0	262.6	3	45	91.4	95.4	50.9	51.2		
1002	4.7	50.4	50.9	266.6	262.5	3	27	91.7	95.1	55.4	55.7	5.0	1186
		52.9	53.4	266.5	262.7	3	37	91.5	95.3	52.9	53.2		
		55.4	55.9	266.4	263.0	3	47	91.3	95.4	50.4	50.7		
1630	4.7	54.2	54.7	266.0	262.5	3	39	91.8	94.7	59.1	59.4	5.2	289
		56.7	57.2	265.9	262.7	3	49	91.6	94.9	56.6	56.9		
		59.2	59.7	265.8	262.9	3	59	91.4	95.0	54.1	54.4		
1002	4.7	53.7	54.1	266.4	262.8	3	40	91.7	94.7	58.9	59.2	5.2	289
		56.2	56.6	266.3	263.0	3	50	91.6	94.9	56.4	56.7		
		58.6	59.1	266.2	263.2	4	0	91.4	95.0	53.9	54.2		
1022	4.9	44.8	44.8	273.3	268.2	3	51	86.4	90.6	50.1	50.0	4.1	1187
		47.3	47.3	272.9	268.3	4	1	86.0	90.6	47.6	47.5		
		49.8	49.8	272.6	268.4	4	11	85.7	90.6	45.1	45.0		
1049	5.3	44.4	44.7	269.7	264.6	4	40	90.5	94.7	49.6	49.8	5.1	304
		46.9	47.2	269.5	264.8	4	50	90.3	94.9	47.1	47.3		
		49.4	49.7	269.3	265.0	5	0	90.1	95.1	44.6	44.8		
1034	5.3	55.4	54.9	277.8	274.3	4	56	80.2	83.0	60.5	59.8	3.3	334
		57.9	57.4	277.3	274.2	5	6	79.7	82.8	58.0	57.3		
		60.4	59.9	276.9	274.1	5	16	79.2	82.6	55.6	54.8		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT -5	LAT 0	LAT -5	LAT 0		LAT -5	LAT 0	LAT -5	LAT 0			
65	4.9	51.0	50.4	278.1	274.0	5	14	79.3	82.7	56.1	55.3	3.3	334
		53.4	52.9	277.6	273.9	5	24	78.7	82.4	53.6	52.8		
		55.9	55.4	277.2	273.8	5	34	78.1	82.2	51.2	50.3		
65	4.8	56.2	55.7	277.1	273.7	5	35	81.8	84.6	61.3	60.7	4.8	1249
		58.6	58.2	276.7	273.6	5	45	81.4	84.4	58.8	58.2		
		61.1	60.7	276.3	273.5	5	55	80.9	84.3	56.4	55.7		
91	4.0	47.1	46.9	275.0	270.3	5	46	83.1	86.9	52.3	51.9	3.8	347
		49.6	49.4	274.6	270.3	5	56	82.6	86.8	49.8	49.4		
		52.1	51.9	274.2	270.3	6	6	82.1	86.7	47.4	46.9		
1089	5.3	47.7	48.0	269.4	264.9	6	7	87.5	91.3	53.0	53.0	4.1	1250
		50.2	50.4	269.2	265.1	6	17	87.2	91.4	50.5	50.5		
		52.7	52.9	269.0	265.2	6	27	86.9	91.4	48.0	48.0		
1093	5.0	45.6	45.0	279.6	274.7	6	18	79.7	83.8	50.7	50.0	4.8	1249
		48.1	47.5	279.0	274.5	6	28	79.1	83.6	48.3	47.5		
		50.6	50.0	278.4	274.3	6	38	78.4	83.3	45.8	45.0		
137	5.1	42.0	41.9	273.7	268.2	6	31	86.8	91.4	47.0	47.0	4.1	1250
		44.5	44.4	273.4	268.2	6	41	86.4	91.5	44.6	44.5		
		46.9	46.9	273.0	268.3	6	51	86.0	91.6	42.1	42.0		
1097	4.8	49.6	50.0	267.5	263.3	6	49	89.7	93.2	54.8	54.9	5.2	1270
		52.1	52.5	267.4	263.5	6	59	89.5	93.3	52.3	52.4		
		54.6	55.0	267.2	263.7	7	9	89.2	93.4	49.8	49.9		
1093	5.0	55.7	55.2	277.4	274.0	6	59	82.9	85.7	60.7	60.2	5.1	1284
		58.2	57.7	277.0	273.9	7	9	82.5	85.6	58.2	57.7		
		60.7	60.2	276.6	273.8	7	19	82.0	85.5	55.8	55.2		
1097	4.8	55.6	56.0	267.2	263.8	7	13	91.2	94.1	60.5	60.7	4.6	1292
		58.1	58.5	267.0	264.0	7	23	91.1	94.2	58.0	58.2		
		60.6	61.0	266.9	264.1	7	33	90.9	94.3	55.5	55.7		
176	4.2	40.3	40.5	270.8	264.9	7	26	88.8	93.7	45.6	45.7	5.2	1270
		42.8	43.0	270.6	265.2	7	36	88.5	93.9	43.1	43.2		
		45.3	45.5	270.3	265.4	7	46	88.2	94.0	40.6	40.7		
180	2.9	37.6	38.1	268.1	261.7	7	38	88.5	93.9	42.6	42.7	5.2	1270
		40.1	40.6	268.0	262.1	7	48	88.2	94.1	40.1	40.2		
		42.6	43.0	267.9	262.5	7	58	87.8	94.3	37.6	37.7		
169	4.1	50.1	50.3	269.8	265.6	7	56	87.4	90.9	55.1	55.0	4.5	437
		52.5	52.7	269.6	265.7	8	6	87.1	90.9	52.6	52.5		
		55.0	55.2	269.4	265.9	8	16	86.7	90.9	50.1	50.0		
209	2.9	40.0	40.5	266.7	260.9	8	15	90.0	95.0	45.1	45.3	4.6	1292
		42.4	43.0	266.7	261.3	8	25	89.8	95.2	42.6	42.8		
		44.9	45.4	266.6	261.7	8	35	89.6	95.5	40.1	40.3		
206	2.5	45.2	45.0	274.5	269.6	8	31	83.3	87.5	50.1	49.7	3.8	445
		47.7	47.5	274.1	269.6	8	41	82.9	87.4	47.6	47.2		
		50.2	50.0	273.8	269.6	8	51	82.3	87.3	45.1	44.7		
210	1.8	48.0	48.0	272.9	268.4	8	47	86.9	90.7	53.1	53.0	4.0	460
		50.5	50.5	272.6	268.4	8	57	86.6	90.7	50.6	50.5		
		53.0	53.0	272.3	268.5	9	7	86.2	90.7	48.1	48.0		
194	0.3	56.5	57.2	263.4	260.2	9	1	93.5	96.1	61.7	62.1	4.5	490
		59.0	59.7	263.4	260.5	9	11	93.4	96.3	59.2	59.6		
		61.5	62.2	263.3	260.7	9	21	93.2	96.5	56.7	57.1		
209	2.9	54.1	54.6	266.3	262.7	9	12	93.3	96.3	59.0	59.4	4.5	490
		56.6	57.1	266.2	262.9	9	22	93.2	96.5	56.5	56.9		
		59.1	59.6	266.1	263.1	9	32	93.1	96.7	54.0	54.4		
258	4.7	39.7	39.1	279.9	273.9	9	23	80.0	85.1	44.8	44.2	5.1	1317
		42.2	41.6	279.2	273.7	9	33	79.4	84.8	42.4	41.7		
		44.6	44.1	278.6	273.5	9	43	78.6	84.6	39.9	39.2		
258	4.7	44.1	43.6	278.7	273.5	9	41	81.0	85.3	49.1	48.5	3.7	484
		46.6	46.1	278.1	273.4	9	51	80.4	85.1	46.6	46.0		
		49.1	48.6	277.6	273.2	10	1	79.7	84.9	44.2	43.5		
1175	5.0	50.2	50.1	272.6	268.4	9	53	87.1	90.6	55.3	55.2	3.4	501
		52.6	52.6	272.3	268.5	10	3	86.8	90.6	52.8	52.7		
		55.1	55.1	272.0	268.5	10	13	86.5	90.6	50.3	50.2		
1175	5.0	53.6	53.6	272.2	268.5	10	7	85.0	88.1	58.7	58.4	4.3	516
		56.1	56.1	271.9	268.5	10	17	84.7	88.0	56.2	55.9		
		58.6	58.6	271.6	268.6	10	27	84.3	88.0	53.8	53.4		
1187	4.1	48.9	48.8	273.8	269.4	10	26	84.3	88.0	54.0	53.7	4.3	516
		51.4	51.3	273.4	269.4	10	36	83.9	87.9	51.5	51.2		
		53.9	53.8	273.1	269.4	10	46	83.5	87.8	49.1	48.7		
1186	5.0	52.0	52.3	268.6	264.7	10	38	89.3	92.5	57.2	57.3	5.0	533
		54.5	54.8	268.4	264.9	10	48	89.1	92.6	54.7	54.8		
		57.0	57.3	268.2	265.0	10	58	88.8	92.7	52.3	52.3		

CATNO	MAG	WEST STAR						EAST STAR						MAG	CATNO
		Z.D.		AZ		LST		AZ		Z.D.					
		LAT -5	LAT 0	LAT -5	LAT 0	HRS	MIN	LAT -5	LAT 0	LAT -5	LAT 0				
1187	4.1	54.4	54.3	273.0	269.4	10	48	84.8	87.7	59.7	55.3	3.8	547		
		56.9	56.8	272.7	269.5	10	58	84.4	87.6	57.2	56.8				
		59.4	59.3	272.4	269.5	11	8	84.0	87.6	54.7	54.3				
304	5.1	45.9	46.2	269.8	265.0	11	3	88.7	92.7	51.0	51.1	5.0	533		
		48.4	48.7	269.6	265.2	11	13	88.4	92.9	48.5	48.6				
		50.9	51.2	269.4	265.3	11	23	88.1	93.0	46.0	46.1				
316	4.0	42.7	43.0	269.8	264.4	11	16	88.3	92.9	47.8	47.8	5.0	533		
		45.2	45.5	269.5	264.6	11	26	88.1	93.0	45.3	45.3				
		47.7	48.0	269.4	264.8	11	36	87.7	93.1	42.8	42.8				
1237	5.2	39.8	40.0	270.7	264.8	11	28	88.0	93.0	44.8	44.8	5.0	533		
		42.3	42.5	270.5	265.0	11	38	87.7	93.2	42.3	42.3				
		44.8	45.0	270.3	265.2	11	48	87.3	93.3	39.8	39.9				
304	5.1	56.2	56.4	269.0	265.6	11	44	91.1	93.8	61.0	61.2	3.6	585		
		58.6	58.9	268.8	265.8	11	54	90.9	93.9	58.5	58.7				
		61.1	61.4	268.6	265.9	12	4	90.7	94.1	56.0	56.2				
316	4.0	52.9	53.2	269.0	265.2	11	57	90.8	94.0	57.7	58.0	3.6	585		
		55.4	55.7	268.8	265.3	12	7	90.6	94.1	55.3	55.5				
		57.9	58.2	268.6	265.5	12	17	90.4	94.2	52.8	53.0				
316	4.0	55.9	56.2	268.7	265.4	12	9	91.4	94.2	60.9	61.1	3.0	603		
		58.4	58.7	268.6	265.5	12	19	91.2	94.3	58.4	58.6				
		60.9	61.2	268.4	265.6	12	29	91.0	94.4	55.9	56.2				
347	3.8	47.7	47.2	277.9	273.3	12	22	80.4	84.2	52.8	52.1	3.8	588		
		50.2	49.7	277.7	273.1	12	32	79.9	84.0	50.3	45.6				
		52.6	52.2	276.9	273.0	12	42	79.3	83.8	47.9	47.1				
1250	4.1	47.9	47.8	273.1	268.6	12	50	84.9	88.6	53.1	52.8	4.8	1427		
		50.4	50.3	272.8	268.6	13	0	84.5	88.6	50.6	50.3				
		52.8	52.8	272.5	268.7	13	10	84.0	88.5	48.1	47.8				
1263	5.4	50.8	51.5	263.8	259.8	13	41	92.7	96.1	55.9	56.3	4.6	647		
		53.3	54.0	263.8	260.1	13	51	92.6	96.3	53.4	53.8				
		55.8	56.5	263.8	260.4	14	1	92.5	96.5	50.9	51.3				
1284	5.1	46.6	46.0	279.9	275.2	14	3	80.6	84.6	51.4	50.8	4.4	1455		
		49.1	48.5	279.3	275.0	14	13	81.1	84.4	48.9	48.3				
		51.6	51.0	278.8	274.8	14	23	79.4	84.2	46.5	45.8				
1257	5.2	43.2	42.6	279.7	274.4	14	17	79.8	84.3	48.0	47.3	4.4	1459		
		45.7	45.1	279.1	274.2	14	27	79.2	84.1	45.5	44.8				
		48.1	47.6	278.5	274.0	14	37	78.5	83.8	43.1	42.3				
445	3.8	47.1	39.6	278.0	272.9	14	28	79.1	84.1	45.3	44.5	4.4	1455		
		42.6	42.1	278.3	272.8	14	38	78.4	83.8	42.8	42.0				
		45.1	44.6	277.7	272.7	14	48	77.6	83.5	40.4	35.6				
445	3.8	42.6	42.1	278.3	272.8	14	38	81.8	86.3	47.8	47.3	3.7	669		
		45.1	44.6	277.7	272.7	14	48	81.2	86.1	45.3	44.8				
		47.5	47.1	277.2	272.6	14	58	80.6	86.0	42.9	42.3				
445	3.8	46.8	46.4	277.3	272.6	14	55	81.7	85.7	51.8	51.3	4.9	1476		
		49.3	48.9	276.8	272.5	15	5	81.2	85.5	49.4	48.8				
		51.7	51.4	276.4	272.4	15	15	80.6	85.3	46.9	46.3				
445	3.8	51.2	51.9	276.5	272.4	15	13	81.6	84.9	56.2	55.7	4.5	709		
		53.7	53.4	276.0	272.3	15	23	81.1	84.8	53.8	53.2				
		56.2	55.9	275.6	272.3	15	33	80.6	84.6	51.3	50.7				
445	3.8	54.7	54.4	275.9	272.3	15	27	83.5	86.4	59.9	59.4	3.4	730		
		57.2	56.9	275.5	272.2	15	37	83.1	86.3	57.4	56.9				
		59.7	59.4	275.1	272.2	15	47	82.7	86.2	54.9	54.4				
475	4.8	45.5	46.2	263.9	259.0	15	41	92.3	96.3	50.8	51.2	3.6	717		
		48.0	48.7	263.9	259.5	15	51	92.1	96.5	48.4	48.7				
		50.4	51.1	263.9	259.9	16	1	92.0	96.8	45.9	46.2				
460	4.0	54.1	54.0	272.9	269.3	15	55	85.9	88.9	59.3	59.1	4.0	746		
		56.6	56.5	272.6	269.3	16	5	85.6	88.9	56.9	56.6				
		59.1	59.0	272.3	269.4	16	15	85.2	88.8	54.4	54.1				
490	4.5	44.8	45.3	267.3	262.3	16	9	89.5	93.7	50.1	50.2	5.2	1509		
		47.3	47.8	267.2	262.7	16	19	89.3	93.8	47.6	47.7				
		49.8	50.2	267.1	262.9	16	29	89.0	94.0	45.1	45.2				
484	3.7	54.2	53.7	278.0	274.4	16	29	80.8	83.8	59.1	58.4	5.4	1531		
		56.7	56.2	277.5	274.2	16	39	80.3	83.6	56.7	56.0				
		59.2	58.7	277.1	274.1	16	49	79.8	83.4	54.2	53.5				
490	4.5	54.5	55.0	266.9	263.4	16	48	93.0	95.9	59.4	59.8	4.6	1543		
		57.0	57.4	266.8	263.6	16	58	92.8	96.1	56.9	57.3				
		59.5	59.9	266.6	263.7	17	8	92.7	96.2	54.4	54.8				
533	5.0	40.5	40.5	272.6	266.7	17	9	86.3	91.2	45.4	45.3	3.4	756		
		43.0	43.0	272.2	266.9	17	19	85.9	91.3	42.9	42.8				
		45.4	45.5	271.9	267.0	17	29	85.5	91.4	40.5	40.3				

CATNO	MAG	WEST STAR						EAST STAR						MAG	CATNO
		Z. D.		AZ		LST		AZ		Z. D.					
		LAT -5	LAT 0	LAT -5	LAT 0	HRS	MIN	LAT -5	LAT 0	LAT -5	LAT 0				
525	4.2	46.3	46.8	266.6	261.9	17	21	92.5	96.5	51.2	51.6	4.6	1543		
		48.8	49.3	266.5	262.2	17	31	92.4	96.8	48.7	49.1				
		51.3	51.8	266.4	262.5	17	41	92.3	97.0	46.2	46.6				
545	4.0	42.8	43.3	267.2	261.9	17	34	92.4	96.8	48.0	48.4	4.6	1543		
		45.3	45.8	267.1	262.2	17	44	92.2	97.1	45.5	45.9				
		47.8	48.2	267.0	262.5	17	54	92.1	97.4	43.0	43.4				
516	4.3	56.2	55.9	275.3	272.0	17	44	94.2	87.0	61.0	60.6	5.5	1574		
		58.7	58.4	275.0	271.9	17	54	83.9	86.9	58.5	58.1				
		61.1	60.9	274.6	271.9	18	4	83.5	86.9	56.0	55.6				
533	5.3	54.7	54.7	270.0	267.4	18	6	87.6	90.5	59.8	55.7	3.2	827		
		57.2	57.2	270.7	267.5	18	16	87.3	90.5	57.3	57.2				
		59.6	59.7	270.4	267.5	18	26	87.0	90.5	54.8	54.7				
545	4.0	56.5	56.9	266.6	263.3	18	29	92.2	94.9	61.7	62.0	5.3	1595		
		59.0	59.4	266.5	263.5	18	39	92.1	95.0	59.2	59.5				
		61.5	61.9	266.4	263.7	18	49	91.9	95.2	56.7	57.0				
585	3.6	44.5	44.7	270.3	265.2	18	47	86.3	90.5	49.6	46.9	3.2	827		
		47.0	47.2	270.1	265.4	18	57	86.9	90.6	47.1	46.4				
		49.5	49.7	269.8	265.6	19	7	86.5	90.6	44.6	44.4				
603	3.0	43.3	43.5	270.0	264.7	19	7	87.6	92.0	48.4	48.4	4.0	842		
		45.8	46.0	269.8	264.9	19	17	87.2	92.1	46.0	45.9				
		48.3	48.5	269.6	265.1	19	27	86.9	92.2	43.5	43.4				
605	3.3	44.8	45.1	268.4	263.4	19	17	91.4	95.7	49.8	50.1	5.3	1595		
		47.3	47.6	268.3	263.7	19	27	91.3	95.9	47.3	47.6				
		49.7	50.1	268.1	263.9	19	37	91.1	96.1	44.8	45.1				
1427	4.8	48.1	47.7	276.0	271.5	19	32	81.6	85.3	53.4	52.8	4.6	1602		
		50.5	50.2	275.5	271.4	19	42	81.1	85.2	50.9	50.3				
		53.0	52.7	275.1	271.4	19	52	80.5	85.0	48.5	47.8				
1427	4.3	50.8	50.5	275.5	271.4	19	43	85.2	88.6	56.0	55.7	4.9	884		
		53.3	53.0	275.1	271.3	19	53	84.9	88.6	53.5	53.2				
		55.8	55.5	274.7	271.3	20	3	84.5	88.5	51.0	50.7				
605	3.3	54.7	55.1	267.9	264.3	19	57	91.4	94.2	60.0	60.2	5.1	900		
		57.2	57.6	267.7	264.5	20	7	91.2	94.3	57.5	57.7				
		59.7	60.0	267.5	264.6	20	17	91.0	94.5	55.0	55.2				
1445	5.0	49.6	49.0	268.7	264.5	20	19	90.9	94.5	54.5	54.7	5.1	930		
		52.1	52.4	268.6	264.7	20	29	90.8	94.6	52.0	52.3				
		54.6	54.9	268.4	264.9	20	39	90.6	94.8	49.5	49.8				
647	4.6	46.4	46.8	267.9	263.1	20	32	90.7	94.7	51.3	51.5	5.1	910		
		48.9	49.3	267.6	263.3	20	42	90.5	94.9	48.8	49.0				
		51.4	51.8	267.5	263.5	20	52	90.3	95.1	46.3	46.5				
1445	5.0	56.3	56.6	268.3	265.0	20	46	88.7	91.4	61.5	61.5	4.9	1022		
		58.8	59.1	268.1	265.1	20	56	88.5	91.5	59.0	59.0				
		61.3	61.6	267.9	265.2	21	6	88.2	91.5	56.5	56.5				
668	3.7	54.3	53.8	277.0	273.4	21	22	82.9	85.9	59.2	58.8	5.3	1034		
		56.7	56.3	276.6	273.3	21	32	82.5	85.8	56.8	56.3				
		59.2	58.8	276.2	273.2	21	42	82.0	85.6	54.3	53.8				
668	3.7	57.2	56.8	276.5	273.2	21	34	81.2	83.9	62.4	61.7	4.7	56		
		59.7	59.3	276.1	273.2	21	44	80.8	83.7	59.9	59.2				
		62.2	61.8	275.7	273.1	21	54	80.4	83.6	57.5	56.8				
677	4.0	57.1	56.6	276.8	273.5	21	46	83.8	86.5	62.1	61.7	4.8	65		
		59.6	59.1	276.4	273.4	21	56	83.5	86.4	59.6	59.2				
		62.0	61.6	276.0	273.3	22	6	83.1	86.3	57.1	56.7				
1509	5.2	37.8	37.9	271.8	265.4	22	1	86.4	91.8	42.8	42.8	4.9	1022		
		40.3	40.4	271.5	265.6	22	11	86.0	91.9	40.4	40.3				
		42.8	42.9	271.2	265.8	22	21	85.6	92.0	37.9	37.8				
730	3.4	42.4	41.7	280.1	274.6	22	11	80.5	85.2	47.2	46.5	5.3	1034		
		44.8	44.2	279.5	274.4	22	21	79.9	84.9	44.7	44.1				
		47.3	46.7	278.9	274.2	22	31	79.2	84.7	42.3	41.6				
746	4.0	38.8	38.4	277.8	271.5	22	25	79.6	84.9	43.7	43.1	5.3	1034		
		41.3	40.9	277.2	271.5	22	35	78.9	84.6	41.3	40.6				
		43.7	43.4	276.6	271.4	22	45	78.1	84.3	38.8	38.1				
709	4.5	55.6	55.1	278.5	275.1	22	35	80.8	83.6	60.8	60.1	5.0	1072		
		58.1	57.5	278.1	275.0	22	45	80.4	83.5	58.3	57.6				
		60.6	60.0	277.7	274.8	22	55	79.9	83.3	55.9	55.1				
730	3.4	52.0	51.4	277.0	273.9	22	50	80.1	83.4	57.1	56.4	5.0	1072		
		54.4	53.9	277.4	273.8	23	0	79.6	83.2	54.6	53.9				
		56.9	56.4	277.0	273.7	23	10	79.1	82.9	52.2	51.4				
730	3.4	55.2	54.7	277.3	273.8	23	3	82.5	85.3	60.2	59.6	2.8	107		
		57.6	57.2	276.8	273.7	23	13	82.0	85.2	57.7	57.1				
		60.1	59.7	276.5	273.6	23	23	81.6	85.1	55.2	54.7				

CATNO	MAG	WEST STAR			AZ		LST		AZ		EAST STAR			MAG	CATNO						
		Z.D.			LAT	LAT	LAT	LAT	HRS	MIN	LAT	LAT	LAT			LAT	LAT	LAT			
		LAT	-5	LAT	0	LAT	-5	LAT	0	HRS	MIN	LAT	-5	LAT	0	LAT	-5	LAT	0		
756	3.4	46.0		45.9		273.6		268.8		23	14	85.7		89.7		51.3		51.1		4.0	91
		48.5		48.4		273.7		268.8		23	24	85.3		89.7		48.8		48.6			
		51.0		50.9		272.9		268.9		23	34	84.9		89.7		46.4		46.1			
746	4.0	53.7		53.4		274.9		271.2		23	25	83.1		86.1		58.9		58.4		5.0	1093
		56.1		55.9		274.5		271.2		23	35	82.7		86.0		56.4		55.9			
		58.6		58.4		274.2		271.1		23	45	82.2		85.9		53.9		53.4			
756	3.4	53.3		53.2		272.6		268.9		23	43	86.5		89.6		58.4		58.2		4.4	1101
		55.7		55.7		272.3		268.9		23	53	86.2		89.6		55.9		55.7			
		58.2		58.2		272.1		269.0		24	3	85.9		89.6		53.4		53.2			

CATNO	MAG	WEST STAR				AZ				LST HRS MIN	EAST STAR				MAG	CATNO
		Z.D.		LAT		LAT		LAT			Z.D.		LAT			
		LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT			
1531	5.4	52.9	52.5	276.6	272.8	23	53	82.9	86.1	58.1	57.6	5.4	1104			
		55.4	55.0	276.4	272.9	0	3	82.7	86.2	55.6	55.1					
		57.9	57.5	276.2	273.1	0	13	82.5	86.3	53.1	52.6					
1533	5.1	53.9	54.4	266.3	262.7	0	4	91.9	94.8	59.1	55.4	5.3	1111			
		56.4	56.9	266.5	263.2	0	14	91.9	95.2	56.6	57.0					
		59.9	59.3	266.6	263.6	0	24	92.0	95.6	54.1	54.5					
807	4.1	46.5	46.1	277.1	272.4	0	20	82.3	86.3	51.4	50.9	5.4	1104			
		49.7	48.6	276.9	272.5	0	30	82.0	86.4	48.9	48.4					
		51.5	51.1	276.6	272.6	0	40	81.7	86.5	46.5	45.9					
1543	4.6	66.2	56.9	263.0	260.6	0	31	93.9	96.6	61.1	61.6	4.1	165			
		58.7	59.4	264.0	261.1	0	41	94.1	97.0	58.6	59.1					
		61.2	61.8	264.2	261.5	0	51	94.1	97.4	56.1	56.6					
809	3.1	49.1	50.0	262.5	258.3	0	46	94.7	98.2	54.3	54.8	5.2	1120			
		51.6	52.4	262.8	258.9	0	56	94.8	98.7	51.8	52.4					
		54.1	54.8	263.0	259.5	1	6	95.0	99.2	49.3	49.9					
809	3.1	51.8	52.6	262.8	259.0	0	57	93.9	97.1	56.9	57.4	4.2	176			
		54.3	55.1	263.0	259.5	1	7	94.0	97.6	54.4	54.9					
		56.8	57.5	263.2	260.0	1	17	94.2	98.0	51.9	52.5					
808	3.1	54.8	55.6	263.1	259.6	1	9	95.9	98.9	59.6	60.2	2.9	188			
		57.3	58.0	263.3	260.1	1	19	96.1	99.3	57.1	57.8					
		59.8	60.5	263.4	260.6	1	29	96.3	99.7	54.6	55.3					
834	3.7	47.7	47.2	278.3	273.7	1	19	81.3	85.1	52.8	52.2	3.3	1134			
		50.2	49.7	277.9	273.8	1	29	81.0	85.1	50.3	49.7					
		52.7	52.2	277.7	273.8	1	39	80.6	85.2	47.8	47.2					
1545	4.6	46.2	46.3	271.8	267.0	1	29	86.9	91.9	51.1	51.0	3.9	180			
		48.7	48.7	271.7	267.3	1	39	86.8	91.2	48.6	48.5					
		51.2	51.2	271.6	267.6	1	49	86.7	91.5	46.1	46.0					
842	4.0	50.1	50.5	268.1	263.9	1	41	90.5	94.0	54.9	55.1	4.7	1147			
		52.6	52.9	268.1	264.3	1	51	90.5	94.3	52.4	52.6					
		55.1	55.4	268.2	264.7	2	1	90.5	94.7	49.9	50.2					
879	3.9	39.3	39.2	275.0	268.9	1	53	82.0	87.1	44.6	44.1	3.8	179			
		41.8	41.6	274.8	269.2	2	3	81.7	87.2	42.1	41.6					
		44.3	44.1	274.5	269.4	2	13	81.2	87.3	39.6	39.1					
1600	4.6	45.4	45.2	275.2	270.3	2	4	81.8	85.9	50.3	45.8	1.7	201			
		47.9	47.7	275.0	270.5	2	14	81.4	86.0	47.8	47.3					
		50.4	50.1	274.8	270.7	2	24	81.1	86.0	45.4	44.8					
1614	4.5	42.6	42.1	279.3	273.8	2	16	81.4	86.0	47.3	46.8	1.7	201			
		45.1	44.6	278.9	273.9	2	26	81.0	86.1	44.9	44.3					
		47.6	47.0	279.5	273.9	2	36	80.6	86.1	42.4	41.8					
878	3.9	50.8	50.6	274.1	270.0	2	39	84.4	87.8	56.1	55.7	4.5	244			
		53.3	53.1	274.0	270.2	2	49	84.3	88.0	53.6	53.2					
		55.8	55.6	273.8	270.4	2	59	84.1	88.1	51.1	50.7					
1614	4.5	50.8	50.3	278.1	274.0	2	49	81.1	84.5	56.0	55.4	4.5	1174			
		53.3	52.8	277.8	274.1	2	59	80.9	84.6	53.6	52.9					
		55.7	55.2	277.6	274.2	3	9	80.5	84.6	51.1	50.4					
900	4.0	47.1	46.5	279.2	274.6	3	5	80.7	84.6	52.1	51.4	4.5	1174			
		49.5	48.9	278.9	274.6	3	15	80.3	84.6	49.6	49.0					
		52.0	51.4	278.6	274.7	3	25	80.0	84.6	47.1	46.5					
892	4.3	56.2	55.8	276.6	273.3	3	23	80.5	83.2	61.1	60.4	3.1	285			
		58.7	58.3	276.5	273.4	3	33	80.2	83.3	58.6	57.9					
		61.2	60.7	276.3	273.5	3	43	80.0	83.3	56.2	55.4					
1000	4.7	54.1	54.9	262.8	259.3	3	40	94.7	97.7	59.2	59.7	5.2	285			
		56.6	57.4	263.0	259.8	3	50	94.9	98.1	56.7	57.2					
		59.1	59.8	263.2	260.3	4	0	95.0	98.6	54.2	54.8					
1022	4.9	44.8	45.1	268.2	263.2	3	51	90.6	94.8	50.0	50.2	4.1	1187			
		47.3	47.6	268.3	263.7	4	1	90.6	95.2	47.5	47.7					
		49.8	50.1	268.4	264.2	4	11	90.6	95.6	45.0	45.2					
56	4.7	41.2	40.7	278.2	272.5	4	24	78.4	83.2	46.1	45.3	3.1	285			
		43.7	43.2	277.8	272.6	4	34	77.9	83.1	43.7	42.8					
		46.1	45.7	277.5	272.7	4	44	77.3	83.0	41.2	40.4					
65	4.8	40.7	40.6	274.7	268.9	4	35	82.7	87.5	46.0	45.6	0.5	291			
		43.2	43.0	274.5	269.2	4	45	82.3	87.6	43.6	43.1					
		45.7	45.5	274.3	269.4	4	55	82.0	87.7	41.1	40.6					
1034	5.3	52.6	52.4	274.4	270.6	4	47	83.2	86.3	57.6	57.1	4.2	1223			
		55.1	54.9	274.3	270.8	4	57	83.0	86.5	55.1	54.6					
		57.6	57.4	274.2	271.0	5	7	82.7	86.6	52.6	52.2					
56	4.7	49.9	49.4	277.1	272.8	4	59	82.9	86.5	54.6	54.1	4.2	1223			
		52.3	51.9	276.8	273.9	5	9	82.7	86.6	52.1	51.7					
		54.8	54.4	276.6	273.1	5	19	82.4	86.7	49.6	49.2					

CATNO	MAG	WEST STAR				AZ				LST HRS MIN	EAST STAR				MAG	CATNO
		Z.D.		LAT		O		LAT			O		Z.D.			
		LAT	O	LAT	5	LAT	O	LAT	5		LAT	O	LAT	5		
65	4.8	50.2	50.0	274.0	269.8	5	13	82.7	86.1	55.6	55.1	3.3	334			
		52.7	52.5	273.9	270.1	5	23	82.5	86.2	53.1	52.6					
		55.2	55.0	273.8	270.3	5	33	82.2	86.3	50.6	50.1					
1072	5.0	43.1	42.6	278.1	272.7	5	26	82.2	86.7	47.9	47.4	4.2	1223			
		45.6	45.1	277.7	272.8	5	36	81.9	86.8	45.4	44.9					
		48.0	47.6	277.4	272.9	5	46	81.5	86.9	43.0	42.5					
91	4.0	46.9	47.1	270.3	265.7	5	46	86.9	90.9	51.9	51.8	3.8	347			
		49.4	49.5	270.3	266.0	5	56	86.8	91.1	49.4	49.3					
		51.9	52.0	270.3	266.4	6	6	86.7	91.4	46.9	46.8					
1093	5.0	39.5	39.4	275.2	269.1	5	56	81.5	86.5	44.9	44.4	3.3	334			
		42.0	41.8	274.9	269.4	6	6	81.1	86.5	42.4	41.9					
		44.5	44.3	274.7	269.6	6	16	80.6	86.6	40.0	39.4					
1072	5.0	53.2	52.8	276.9	273.1	6	7	80.4	83.5	58.4	57.7	4.9	378			
		55.7	55.3	276.7	273.2	6	17	80.2	83.6	55.9	55.2					
		58.2	57.8	276.5	273.4	6	27	79.9	83.6	53.5	52.8					
1093	5.0	45.0	44.8	274.7	269.6	6	18	83.8	88.0	50.0	49.7	4.8	1249			
		47.5	47.3	274.5	269.9	6	28	83.6	88.2	47.5	47.2					
		50.0	49.8	274.3	270.1	6	38	83.3	88.3	45.0	44.7					
137	5.1	41.9	42.3	268.2	262.6	6	31	91.4	96.1	47.0	47.3	4.1	1250			
		44.4	44.8	268.2	263.2	6	41	91.5	96.6	44.5	44.8					
		46.9	47.2	268.3	263.7	6	51	91.6	97.1	42.0	42.3					
1097	4.8	50.0	50.8	263.3	259.2	6	49	93.2	96.7	54.9	55.3	5.2	1270			
		52.5	53.2	263.5	259.8	6	59	93.3	97.1	52.4	52.9					
		55.0	55.7	263.7	260.3	7	9	93.4	97.6	49.9	50.4					
1093	5.0	55.2	55.0	274.0	271.5	6	59	85.7	88.6	60.2	60.0	5.1	1284			
		57.7	57.5	273.9	271.7	7	9	85.6	88.8	57.7	57.5					
		60.2	60.0	273.8	271.9	7	19	85.5	89.0	55.2	55.0					
1097	4.8	55.9	56.4	263.8	260.4	7	12	94.1	96.8	61.0	61.4	4.6	1292			
		59.2	58.9	263.9	261.9	7	22	94.2	97.2	58.5	59.0					
		60.7	61.4	264.1	261.4	7	32	94.3	97.6	56.0	56.5					
151	3.9	50.5	50.0	277.7	273.6	7	23	81.0	84.4	55.6	54.9	4.7	418			
		53.0	52.5	277.4	273.7	7	33	80.7	84.4	53.1	52.5					
		55.4	55.0	277.2	273.8	7	43	80.4	84.5	50.6	50.0					
1123	5.5	46.4	46.4	271.8	267.1	7	33	85.3	89.2	51.7	51.5	5.1	1284			
		48.9	48.9	271.8	267.4	7	43	85.1	89.4	49.2	49.0					
		51.4	51.4	271.7	267.7	7	53	84.9	89.6	46.7	46.5					
151	3.9	55.4	55.0	277.2	273.8	7	43	82.4	85.2	60.7	60.1	4.2	1302			
		57.9	57.4	277.0	273.9	7	53	82.2	85.3	58.2	57.7					
		60.4	59.9	276.8	274.0	8	3	82.0	85.4	55.7	55.2					
179	3.8	46.5	46.0	277.7	272.9	7	55	82.2	86.1	51.5	51.0	4.1	427			
		49.0	48.5	277.4	273.0	8	5	81.9	86.2	49.1	48.5					
		51.4	51.0	277.1	273.1	8	15	81.5	86.3	46.6	46.1					
179	3.8	49.7	49.2	277.3	273.1	8	8	81.8	85.4	54.5	53.9	4.2	1302			
		52.2	51.7	277.1	273.2	8	18	81.6	85.5	52.0	51.4					
		54.7	54.2	276.8	273.3	8	28	81.3	85.5	49.5	49.0					
176	4.2	54.2	54.7	265.9	262.4	8	21	90.6	93.6	59.5	59.7	4.0	460			
		56.7	57.2	266.1	262.8	8	31	90.7	93.9	57.0	57.2					
		59.2	59.6	266.2	263.2	8	41	90.7	94.2	54.5	54.7					
201	1.7	47.3	46.8	278.6	274.0	8	32	81.5	85.4	52.3	51.7	4.6	1311			
		49.8	49.2	278.3	274.1	8	42	81.2	85.4	49.8	49.2					
		52.3	51.7	278.0	274.1	8	52	80.8	85.5	47.3	46.7					
1161	5.3	41.6	41.7	270.8	265.2	8	44	87.4	92.2	46.4	46.4	3.8	445			
		44.1	44.2	270.8	265.6	8	54	87.3	92.5	43.9	43.9					
		46.6	46.7	270.8	266.0	9	4	87.2	92.8	41.4	41.4					
244	4.5	38.1	37.7	277.5	271.1	8	54	80.3	85.6	43.1	42.5	4.2	1302			
		40.5	40.2	277.1	271.2	9	4	79.8	85.6	40.7	40.0					
		43.0	42.7	276.8	271.4	9	14	79.2	85.6	38.2	37.5					
209	2.9	54.6	55.4	262.7	259.3	9	12	96.3	99.2	59.4	60.1	4.5	490			
		57.1	57.8	262.9	259.8	9	22	96.5	99.7	56.9	57.6					
		59.6	60.3	263.1	260.3	9	32	96.7	100.2	54.4	55.1					
258	4.7	39.1	39.0	273.9	267.7	9	23	85.1	90.2	44.2	44.0	5.1	1317			
		41.6	41.5	273.7	268.0	9	33	84.8	90.5	41.7	41.5					
		44.1	44.0	273.5	268.3	9	43	84.6	90.7	39.2	39.0					
258	4.7	43.6	43.5	273.5	268.3	9	41	85.3	89.8	48.5	48.3	3.7	484			
		46.1	46.0	273.4	268.6	9	51	85.1	90.0	46.0	45.8					
		48.6	48.5	273.2	268.8	10	1	84.9	90.2	43.5	43.3					
1175	5.0	50.1	50.4	268.4	264.3	9	53	90.6	94.1	55.2	55.4	3.4	501			
		52.6	52.9	268.5	264.7	10	3	90.6	94.4	52.7	52.9					
		55.1	55.4	268.5	265.1	10	13	90.6	94.8	50.2	50.4					

CATNC	MAG	WEST STAR				LST				EAST STAR				MAG	CATNC
		Z.D.		AZ		HRS MIN		AZ		Z.D.					
		LAT	0 LAT	LAT	5	LAT	0 LAT	LAT	5	LAT	0 LAT	LAT	5		
1175	5.0	53.4	53.6	268.5	264.8	10	6	88.1	91.1	58.7	58.6	4.3	516		
		55.9	56.1	268.5	265.2	10	16	88.0	91.4	56.2	56.1				
		58.4	58.6	268.6	265.5	10	26	88.0	91.6	53.7	53.7				
291	0.5	40.0	39.5	278.2	272.2	10	17	82.1	87.1	45.2	44.7	5.0	1344		
		42.5	42.0	277.8	272.3	10	27	81.8	87.2	42.7	42.2				
		44.9	44.5	277.5	272.4	10	37	81.3	87.3	40.2	39.7				
1186	5.0	52.3	52.9	264.7	260.9	10	38	92.5	95.7	57.3	57.7	5.0	533		
		54.8	55.4	264.9	261.4	10	48	92.6	96.1	54.8	55.2				
		57.3	57.9	265.0	261.8	10	58	92.7	96.5	52.3	52.7				
1187	4.1	54.3	54.5	269.4	265.9	10	48	87.7	90.7	59.3	59.3	3.8	547		
		56.8	57.0	269.5	266.2	10	58	87.6	90.9	56.8	56.8				
		59.3	59.5	269.5	266.5	11	8	87.6	91.2	54.3	54.3				
374	5.1	46.2	46.8	265.0	260.3	11	3	92.7	96.7	51.1	51.5	5.0	533		
		48.7	49.3	265.2	260.8	11	13	92.9	97.2	48.6	49.0				
		51.2	51.7	265.3	261.4	11	23	93.0	97.7	46.1	46.5				
316	4.0	43.0	43.7	264.4	259.1	11	16	92.9	97.4	47.8	48.3	5.0	533		
		45.5	46.1	264.6	259.8	11	26	93.0	97.9	45.3	45.8				
		48.0	48.6	264.8	260.4	11	36	93.1	98.5	42.8	43.3				
1270	5.2	39.8	40.5	264.7	258.9	11	27	93.0	97.9	45.1	45.6	5.0	533		
		42.3	42.9	265.0	259.6	11	37	93.2	98.5	42.6	43.1				
		44.8	45.4	265.2	260.3	11	47	93.3	99.2	40.1	40.6				
374	5.1	56.4	56.9	265.6	262.4	11	44	93.8	96.6	61.2	61.7	3.6	585		
		58.9	59.4	265.8	262.8	11	54	93.9	96.9	58.7	59.2				
		61.4	61.9	265.9	263.2	12	4	94.1	97.4	56.2	56.7				
316	4.0	53.2	53.8	265.2	261.5	11	57	94.0	97.1	58.0	58.4	3.6	585		
		55.7	56.2	265.3	262.0	12	7	94.1	97.5	55.5	56.0				
		58.2	58.7	265.5	262.4	12	17	94.2	97.9	53.0	53.5				
334	3.3	48.0	48.4	278.0	273.6	12	9	82.0	85.6	53.8	53.3	2.8	582		
		51.4	51.9	277.7	273.7	12	19	81.7	85.7	51.4	50.8				
		53.9	53.4	277.5	273.8	12	29	81.4	85.8	48.9	48.3				
347	3.8	47.2	47.1	273.3	268.6	12	22	84.2	88.2	52.1	51.8	3.8	588		
		49.7	49.6	273.1	268.9	12	32	84.0	88.3	49.6	49.3				
		52.2	52.1	273.0	269.2	12	42	83.8	88.5	47.1	46.8				
1250	4.1	47.8	48.1	268.6	264.1	12	50	88.6	92.4	52.8	52.8	4.8	1427		
		50.3	50.6	268.6	264.5	13	0	88.6	92.8	50.3	50.3				
		52.8	53.1	268.7	264.9	13	10	88.5	93.1	47.8	47.8				
1284	5.1	46.0	45.7	275.0	270.3	14	3	84.6	88.7	50.8	50.5	4.4	1455		
		48.5	48.2	275.0	271.5	14	13	84.4	88.9	48.3	48.0				
		51.0	50.7	274.8	271.7	14	23	84.2	89.1	45.8	45.5				
1257	5.2	42.4	42.2	274.4	268.9	14	16	84.4	89.0	47.5	47.2	4.4	1459		
		44.9	44.7	274.2	269.2	14	26	84.1	89.1	45.0	44.7				
		47.3	47.2	274.0	269.4	14	36	83.9	89.3	42.5	42.2				
445	3.3	39.6	39.6	272.9	267.9	14	28	84.1	89.2	44.5	44.2	4.4	1455		
		42.1	42.1	272.8	267.3	14	38	83.8	89.4	42.0	41.7				
		44.6	44.6	272.7	267.6	14	48	83.5	89.5	39.6	39.3				
445	3.8	42.1	42.1	272.8	267.3	14	38	86.3	90.9	47.3	47.2	3.7	668		
		44.6	44.6	272.7	267.6	14	48	86.1	91.2	44.8	44.7				
		47.1	47.1	272.6	267.9	14	58	86.0	91.5	42.3	42.2				
1217	5.1	39.1	37.8	275.6	269.1	14	51	83.3	88.7	43.1	42.7	2.5	665		
		41.5	40.3	275.3	269.4	15	1	83.0	88.8	40.6	40.2				
		43.9	42.8	275.0	269.6	15	11	82.6	89.0	38.1	37.7				
1257	5.2	53.6	53.4	273.7	270.1	15	1	85.1	88.2	58.6	58.4	4.5	709		
		56.1	55.9	273.6	270.2	15	11	85.0	88.3	56.2	55.9				
		58.6	58.4	273.5	270.4	15	21	84.8	88.5	53.7	53.4				
445	3.8	50.6	50.6	272.4	269.3	15	12	85.0	88.4	55.9	55.6	4.5	709		
		53.1	53.1	272.3	268.6	15	22	84.8	88.5	53.4	53.1				
		55.6	55.6	272.3	269.8	15	32	84.6	88.7	50.9	50.6				
445	3.3	54.4	54.3	272.3	268.7	15	27	86.4	90.4	59.4	59.2	3.4	730		
		56.9	56.8	272.2	269.0	15	37	86.3	89.6	56.9	56.7				
		59.4	59.3	272.2	269.2	15	47	86.2	89.8	54.4	54.3				
494	3.7	42.7	42.5	275.2	269.7	15	45	84.3	88.9	47.7	47.4	4.5	709		
		45.2	45.0	274.9	270.0	15	55	84.1	89.1	45.2	44.9				
		47.7	47.5	274.7	270.2	16	5	83.8	89.3	42.7	42.4				
460	4.0	54.0	54.2	269.3	265.7	15	55	88.9	91.9	59.1	59.2	4.0	746		
		56.5	56.7	269.3	266.0	16	5	88.9	92.2	56.6	56.7				
		59.0	59.2	269.4	266.4	16	15	88.8	92.4	54.1	54.2				
484	3.7	50.2	50.0	274.6	270.4	16	15	82.2	85.7	55.1	54.6	3.9	749		
		52.7	52.5	274.4	270.6	16	25	82.0	85.8	52.6	52.1				
		55.2	55.0	274.3	270.8	16	35	81.7	85.9	50.1	49.6				

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT	LAT	LAT	LAT	HRS	MIN	LAT	LAT		
		LAT	LAT	LAT	LAT			LAT	LAT	LAT	LAT		
1344	5.0	47.6	47.1	277.6	273.0	16	26	82.0	85.8	52.4	51.8	3.9	749
		50.1	49.6	277.3	273.1	16	36	81.7	85.9	49.9	45.3		
		52.6	52.1	277.0	273.2	16	46	81.4	86.0	47.4	46.9		
490	4.5	52.5	53.2	263.1	259.4	16	38	93.5	96.6	57.7	56.1	5.1	1533
		55.0	55.7	263.4	259.9	16	48	93.6	97.0	55.2	55.7		
		57.4	58.1	263.6	260.4	16	58	93.7	97.5	52.7	53.2		
490	4.5	55.0	55.7	263.4	259.9	16	48	95.9	98.8	59.8	60.4	4.6	1543
		57.4	58.1	263.6	260.4	16	58	96.1	99.2	57.3	58.0		
		59.9	60.6	263.7	260.9	17	8	96.2	99.7	54.8	55.5		
1375	5.1	39.3	38.8	279.4	273.2	16	59	80.9	86.0	44.2	43.6	3.9	749
		41.8	41.3	278.9	273.3	17	9	80.4	86.1	41.7	41.1		
		44.3	43.8	278.5	273.3	17	19	79.9	86.1	39.3	38.7		
1351	4.9	55.3	55.1	274.6	271.1	17	14	84.1	86.9	60.3	59.9	4.1	800
		57.8	57.5	274.4	271.3	17	24	83.9	87.1	57.9	57.5		
		60.3	60.1	274.1	271.5	17	34	83.7	87.2	55.4	55.0		
516	4.3	55.6	55.6	272.0	268.6	17	43	87.0	89.8	60.8	60.7	5.5	1574
		58.1	58.1	271.9	268.8	17	53	87.0	90.0	58.3	58.2		
		60.6	60.6	271.9	269.1	18	3	86.9	90.3	55.8	55.7		
533	5.0	54.7	55.1	267.4	263.9	18	6	90.5	93.4	59.7	59.9	3.2	827
		57.2	57.6	267.5	264.3	18	16	90.5	93.7	57.2	57.4		
		59.7	60.1	267.5	264.6	18	26	90.5	94.0	54.7	54.9		
589	3.8	38.3	37.9	277.0	271.0	18	22	82.5	87.8	43.5	43.0	4.1	800
		40.8	40.4	277.0	271.1	18	32	82.1	87.9	41.0	40.5		
		43.2	42.9	276.6	271.3	18	42	81.7	88.0	38.5	38.0		
562	5.4	49.6	49.3	276.6	272.3	18	32	82.5	86.1	54.5	54.0	3.7	834
		52.1	51.7	276.4	272.4	18	42	82.3	86.2	52.1	51.5		
		54.6	54.2	276.2	272.6	18	52	82.0	86.3	49.6	49.1		
585	3.6	44.5	45.1	265.0	261.2	18	46	90.5	94.8	49.7	49.9	3.2	827
		46.9	47.6	265.4	261.8	18	56	90.6	95.2	47.2	47.4		
		49.4	50.0	265.6	261.4	19	6	90.6	95.6	44.7	45.0		
633	3.0	43.5	44.2	264.7	259.6	19	7	92.0	96.4	48.4	48.8	4.0	842
		46.0	46.7	264.9	263.2	19	17	92.1	96.9	45.9	46.3		
		48.5	49.1	265.1	263.8	19	27	92.2	97.4	43.4	43.8		
582	2.9	53.7	53.2	278.1	274.4	19	17	79.9	83.0	58.8	58.1	5.2	1616
		56.2	55.6	277.9	274.4	19	27	79.6	83.0	56.4	55.6		
		58.7	58.1	277.6	274.5	19	37	79.3	83.0	53.9	53.1		
589	3.8	54.7	54.3	275.6	272.5	19	28	82.8	85.7	59.9	59.4	4.5	1614
		57.2	56.8	275.4	272.2	19	38	82.6	85.8	57.5	56.9		
		59.7	59.3	275.3	272.3	19	48	82.3	85.9	55.0	54.5		
1427	4.8	49.2	49.3	271.4	267.1	19	38	86.1	89.7	54.6	54.4	3.9	878
		51.7	51.8	271.4	267.4	19	48	86.4	89.9	52.1	51.9		
		54.2	54.3	271.3	267.7	19	58	85.8	90.1	49.6	49.4		
1427	4.8	52.5	52.5	271.4	267.5	19	51	88.0	91.2	57.5	57.5	4.6	1620
		55.0	55.0	271.3	267.8	20	1	88.0	91.5	55.0	55.0		
		57.5	57.5	271.3	268.1	20	11	87.9	91.7	52.5	52.5		
668	3.7	39.6	38.5	274.4	268.1	20	21	85.4	90.6	43.9	43.7	3.9	878
		41.1	41.0	274.1	268.4	20	31	85.2	90.9	41.4	41.2		
		43.6	43.5	273.9	268.7	20	41	84.9	91.2	38.9	38.7		
665	2.9	42.3	42.0	276.9	271.3	20	31	82.5	87.1	47.2	46.8	4.3	892
		44.8	44.5	276.5	271.4	20	41	82.1	87.2	44.7	44.3		
		47.3	47.0	276.2	271.6	20	51	81.8	87.3	42.3	41.8		
665	2.9	44.8	44.5	276.5	271.4	20	41	81.1	85.4	49.7	49.1	4.0	902
		47.3	47.0	276.2	271.6	20	51	80.8	85.4	47.2	46.6		
		49.8	49.4	276.0	271.7	21	1	80.4	85.5	44.7	44.1		
665	2.9	50.8	50.4	275.9	271.8	21	5	81.0	84.4	56.0	55.4	4.6	28
		53.3	52.9	275.7	272.0	21	15	80.7	84.4	53.5	52.9		
		55.8	55.4	275.5	272.1	21	25	80.4	84.4	51.1	50.4		
668	3.7	53.8	53.7	273.4	269.7	21	22	85.9	88.9	58.8	58.5	5.3	1034
		56.3	56.2	273.3	269.9	21	32	85.8	89.1	56.3	56.0		
		58.8	58.7	273.2	270.1	21	42	85.6	89.3	53.8	53.6		
668	3.7	56.8	56.7	273.2	270.0	21	34	83.9	86.6	61.7	61.3	4.7	56
		59.3	59.2	273.2	270.2	21	44	83.7	86.7	59.2	58.8		
		61.8	61.7	273.1	270.4	21	54	83.6	86.8	56.8	56.3		
677	4.0	56.6	56.5	273.5	270.2	21	46	86.5	89.2	61.7	61.5	4.8	65
		59.1	59.0	273.4	270.4	21	56	86.4	89.4	59.2	59.0		
		61.6	61.5	273.3	270.6	22	6	86.3	89.6	56.7	56.5		
1509	5.2	37.7	38.4	265.4	259.0	22	0	91.8	97.1	43.0	43.4	4.9	1022
		40.2	40.8	265.6	259.8	22	10	91.9	97.7	40.5	40.9		
		42.7	43.3	265.8	260.5	22	20	92.0	98.4	38.0	38.5		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z.D.		AZ			Z.D.		AZ				
		LAT 0	LAT 5	LAT 0	LAT 5	HRS	MIN	LAT 0	LAT 5	LAT 0	LAT 5		
730	3.4	41.7	41.6	274.6	269.0	22	11	85.2	89.9	46.5	46.3	5.3	1034
		44.2	44.1	274.4	269.3	22	21	84.9	90.1	44.1	43.8		
		46.7	46.5	274.2	269.5	22	31	84.7	90.4	41.6	41.3		
730	3.4	44.5	44.3	274.4	269.3	22	22	82.9	87.2	49.8	49.4	4.7	56
		47.7	46.8	274.2	269.5	22	32	82.7	87.3	47.3	46.9		
		49.4	49.3	274.0	269.8	22	42	82.4	87.4	44.9	44.4		
709	4.5	55.1	54.8	275.1	271.6	22	35	83.6	86.5	60.1	59.7	5.0	1072
		57.5	57.2	275.0	271.8	22	45	83.5	86.7	57.6	57.2		
		60.0	59.7	274.8	271.9	22	55	83.3	86.8	55.1	54.7		
1511	4.7	49.6	49.0	279.6	275.4	22	50	79.7	83.3	54.7	54.0	4.3	85
		52.1	51.5	279.3	275.4	23	0	79.4	83.3	52.3	51.5		
		54.6	53.9	279.0	275.4	23	10	79.0	83.2	49.8	49.0		
740	3.9	47.7	46.4	278.7	274.7	23	1	79.4	83.3	52.0	51.3	4.3	85
		49.5	48.9	278.4	274.1	23	11	79.0	83.2	49.6	48.8		
		51.9	51.4	278.1	274.1	23	21	78.5	83.2	47.1	46.3		
756	3.4	45.9	46.3	268.8	264.0	23	14	89.7	93.7	51.1	51.3	4.0	91
		48.4	48.7	268.8	264.4	23	24	89.7	94.1	48.6	48.8		
		50.9	51.2	268.9	264.8	23	34	89.7	94.5	46.1	46.3		
746	4.7	53.4	53.5	271.2	267.5	23	25	86.1	89.2	58.4	58.2	5.0	1093
		55.9	55.9	271.2	267.8	23	35	86.0	89.4	55.9	55.7		
		58.4	58.4	271.1	268.0	23	45	85.9	89.6	53.4	53.2		
756	3.4	53.2	53.4	268.9	265.2	23	43	89.6	92.7	58.2	58.3	4.4	1101
		55.7	55.9	268.9	265.5	23	53	89.6	93.0	55.7	55.8		
		58.2	58.4	269.0	265.9	24	3	89.6	93.3	53.2	53.3		

CATNO	MAG	WEST STAR				AZ				LST		EAST STAR				MAG	CATNO		
		Z.D.		LAT 10		LAT 5		LAT 10		HRS	MIN	AZ		Z.D.				LAT 10	
		LAT	5	LAT	10	LAT	5	LAT	10			LAT	5	LAT	10	LAT	5	LAT	10
1531	5.4	52.5	52.4	272.8	269.0	23	53	66.1	89.3	57.6	57.4	5.4	1108						
		55.0	54.9	272.9	269.4	0	3	86.2	89.7	55.1	55.0								
		57.5	57.3	273.1	269.9	0	13	86.3	90.1	52.6	52.5								
1533	5.1	54.4	55.2	262.7	259.3	0	4	94.8	97.7	59.4	60.0	5.3	1111						
		56.9	57.6	263.2	260.0	0	14	95.2	98.4	57.0	57.5								
		59.3	60.0	263.6	260.7	0	24	95.6	99.1	54.5	55.1								
890	4.1	48.1	48.1	272.5	268.0	0	28	86.3	90.1	53.3	53.1	3.9	151						
		50.6	50.5	272.6	268.5	0	38	86.4	90.5	50.8	50.6								
		53.1	53.0	272.7	268.9	0	48	86.5	91.0	48.3	48.2								
800	4.1	53.8	53.7	272.7	269.1	0	51	84.9	87.9	59.1	58.8	3.3	1134						
		56.3	56.2	272.9	269.5	1	1	85.0	88.3	56.6	56.3								
		58.8	58.7	273.0	270.0	1	11	85.1	88.7	54.2	53.9								
834	3.7	43.0	42.9	273.6	269.2	1	2	82.6	87.1	47.9	47.4	4.3	1118						
		45.5	45.4	273.6	268.7	1	12	82.5	87.5	45.4	45.0								
		48.0	47.8	273.7	269.2	1	22	82.4	87.8	42.9	42.5								
827	3.2	48.6	49.2	265.0	260.7	1	18	90.7	94.3	53.7	54.0	3.9	180						
		51.0	51.6	265.4	261.4	1	28	90.9	94.9	51.2	51.5								
		53.5	54.0	265.8	262.1	1	38	91.2	95.5	48.8	49.1								
1585	4.6	46.0	46.5	266.9	262.2	1	28	90.9	94.9	51.2	51.5	3.9	180						
		48.5	48.9	267.3	262.9	1	38	91.2	95.5	48.8	49.1								
		51.0	51.4	267.6	263.6	1	48	91.5	96.2	46.3	46.6								
827	3.2	53.5	54.0	265.9	262.1	1	38	93.5	96.5	58.4	58.8	2.5	206						
		56.0	56.5	266.1	262.8	1	48	93.8	97.1	55.9	56.4								
		58.5	58.9	266.4	263.4	1	58	94.1	97.8	53.4	54.0								
842	4.0	52.2	52.9	264.2	260.4	1	48	94.7	97.9	57.1	57.6	1.8	210						
		54.7	55.3	264.6	261.1	1	58	95.1	98.6	54.6	55.2								
		57.2	57.7	265.0	261.8	2	8	95.5	99.3	52.1	52.8								
884	4.9	38.4	39.1	265.5	259.3	1	59	91.8	97.0	43.5	43.9	3.9	180						
		40.9	41.5	266.0	260.3	2	9	92.1	97.8	41.0	41.5								
		43.4	43.9	266.4	261.1	2	19	92.4	98.6	38.6	39.0								
1603	4.7	45.8	45.3	278.1	273.2	2	10	81.8	86.0	50.7	50.1	4.5	206						
		48.3	47.8	278.0	273.5	2	20	81.8	86.2	48.2	47.7								
		50.7	50.2	277.9	273.8	2	30	81.6	86.5	45.8	45.2								
892	4.3	40.3	40.4	272.6	266.8	2	21	86.0	90.9	45.5	45.4	1.7	261						
		42.8	42.8	272.7	267.3	2	31	86.1	91.4	43.1	43.0								
		45.3	45.3	272.8	267.9	2	41	86.1	92.0	40.6	40.5								
902	4.0	39.3	39.1	274.6	268.4	2	36	81.5	86.7	44.3	43.8	4.5	206						
		41.7	41.6	274.5	268.9	2	46	81.4	87.0	41.8	41.3								
		44.2	44.0	274.6	269.4	2	56	81.1	87.3	39.3	38.8								
902	4.0	41.7	41.6	274.5	268.9	2	46	84.5	89.2	46.8	46.5	0.6	224						
		44.2	44.0	274.6	269.4	2	56	84.5	89.7	44.3	44.1								
		46.7	46.5	274.6	269.8	3	6	84.5	90.1	41.8	41.6								
902	4.0	46.5	46.3	274.6	269.8	3	5	84.6	89.6	51.4	51.1	4.5	1174						
		48.9	48.7	274.6	270.2	3	15	84.6	89.0	49.0	48.7								
		51.4	51.2	274.7	270.7	3	25	84.6	89.4	46.5	46.2								
892	4.3	55.5	55.4	273.3	269.8	3	22	83.2	86.1	60.6	60.2	3.1	285						
		58.0	57.8	273.4	270.3	3	32	83.3	86.4	58.2	57.7								
		60.5	60.3	273.5	270.7	3	42	83.3	86.7	55.7	55.3								
902	4.0	53.2	52.9	274.7	270.9	3	32	83.3	86.4	58.2	57.7	3.1	285						
		55.6	55.4	274.8	271.3	3	42	83.3	86.7	55.7	55.3								
		58.1	57.8	274.9	271.7	3	52	83.3	87.1	53.2	52.8								
36	4.5	45.3	45.0	276.0	271.0	4	4	83.3	87.5	50.3	49.9	3.1	285						
		47.8	47.5	276.0	271.4	4	14	83.3	87.8	47.8	47.4								
		50.3	49.9	276.0	271.8	4	24	83.2	88.2	45.3	44.9								
1034	5.3	45.0	45.2	270.0	265.0	4	17	87.3	91.5	50.1	50.0	0.5	291						
		47.4	47.6	270.2	265.6	4	27	87.4	92.0	47.6	47.6								
		49.9	50.1	270.4	266.2	4	37	87.5	92.5	45.1	45.1								
36	4.5	51.5	51.2	276.0	272.0	4	29	82.2	85.6	56.3	55.7	3.8	312						
		54.0	53.6	276.0	272.3	4	39	82.2	85.9	53.8	53.3								
		56.5	56.1	276.0	272.7	4	49	82.1	86.2	51.3	50.8								
1034	5.3	52.2	52.3	270.6	266.7	4	46	86.3	89.5	57.4	57.2	4.2	1223						
		54.7	54.8	270.8	267.2	4	56	86.4	90.0	54.9	54.7								
		57.2	57.2	271.0	267.7	5	6	86.6	90.4	52.4	52.3								
56	4.7	49.2	49.1	272.8	268.5	4	58	86.5	90.1	54.4	54.2	4.2	1223						
		51.7	51.6	272.9	269.0	5	8	86.6	90.5	51.9	51.8								
		54.2	54.1	273.0	269.4	5	18	86.7	91.0	49.4	49.3								
85	4.3	40.8	40.5	277.0	271.2	5	11	82.0	86.8	45.9	45.4	3.8	312						
		43.3	42.9	276.9	271.6	5	21	81.8	87.1	43.5	43.0								
		45.8	45.4	276.8	271.9	5	31	81.6	87.4	41.0	40.5								

CATNO	MAG	WEST STAR Z. D.		AZ		LST HRS MIN	AZ		EAST STAR Z. D.		MAG	CATNO
		LAT 5	LAT 10	LAT 5	LAT 10		LAT 5	LAT 10	LAT 5	LAT 10		
1172	5.0	42.6	42.6	272.7	267.3	5	26	86.7	91.3	47.4	47.2	1223
		45.1	45.1	272.8	267.8	5	36	86.8	91.8	48.9	48.9	
		47.6	47.5	272.9	268.3	5	46	86.9	92.4	42.5	42.4	
85	4.3	47.2	46.9	276.9	272.1	5	37	87.3	84.2	52.2	51.5	1238
		49.7	49.3	276.7	272.5	5	47	87.1	84.4	49.7	49.1	
		52.2	51.8	276.7	272.9	5	57	87.0	84.6	47.3	46.6	
157	2.3	41.3	41.5	270.4	264.7	5	47	86.4	91.2	46.6	46.5	374
		42.8	44.3	271.6	265.4	5	57	86.5	91.7	44.1	44.0	
		46.3	46.4	271.9	266.7	6	7	86.6	92.2	41.6	41.6	
1172	5.0	52.8	52.7	273.1	263.3	6	7	83.5	86.7	57.7	57.3	378
		55.3	55.2	273.2	265.8	6	17	83.6	87.0	55.2	55.0	
		57.8	57.6	273.4	270.2	6	27	83.6	87.4	52.8	52.4	
1093	5.0	48.8	45.1	269.6	264.6	6	18	88.0	92.3	49.7	45.7	1249
		47.3	47.5	269.9	265.3	6	28	88.2	92.8	47.2	47.2	
		49.8	51.3	270.1	265.9	6	38	88.3	93.4	44.7	44.8	
1083	4.7	53.8	53.3	277.3	273.6	6	35	82.0	85.1	58.8	58.3	354
		56.3	55.8	277.3	273.9	6	45	82.0	85.4	56.4	55.8	
		58.7	58.2	277.3	274.2	6	55	82.0	85.7	53.9	53.4	
1118	4.3	38.0	37.6	278.0	271.5	6	47	87.7	86.1	43.2	42.5	365
		40.5	41.1	277.8	271.9	6	57	87.5	86.3	40.7	41.1	
		43.0	42.5	277.6	272.2	7	7	87.2	86.6	38.2	37.7	
1102	5.0	55.7	55.1	270.5	267.3	6	59	88.6	91.5	60.0	60.0	1284
		57.5	57.6	270.7	267.6	7	9	88.3	92.0	57.5	57.5	
		60.0	60.1	270.9	268.0	7	19	88.0	92.5	55.0	55.0	
1103	5.0	57.5	57.5	270.7	267.6	7	9	85.7	88.3	62.5	62.2	427
		60.1	61.1	270.9	268.3	7	19	85.8	88.7	60.0	59.7	
		62.5	62.5	271.1	268.5	7	29	85.9	89.1	57.5	57.3	
1111	4.4	56.4	56.8	267.1	263.9	7	21	89.3	92.1	61.3	61.4	1297
		58.9	59.2	267.4	264.4	7	31	89.6	92.6	58.9	58.9	
		61.4	61.7	267.7	264.9	7	41	89.8	93.1	56.4	56.5	
151	3.9	52.3	51.8	273.6	269.7	7	31	85.9	89.2	57.0	56.8	427
		54.5	54.3	273.7	270.1	7	41	86.0	89.6	54.5	54.3	
		57.0	56.8	273.8	270.6	7	51	86.1	90.0	52.0	51.9	
151	3.9	55.0	54.8	273.9	270.2	7	43	85.2	88.1	60.1	59.8	1302
		57.4	57.3	273.9	270.7	7	53	85.3	88.5	57.7	57.4	
		59.9	59.7	274.0	271.1	8	3	85.4	88.9	55.2	54.9	
151	3.9	57.4	57.3	273.9	270.7	7	53	82.6	85.3	62.8	61.9	450
		59.9	59.7	274.0	271.1	8	3	82.7	85.6	59.9	59.4	
		62.4	62.2	274.1	271.5	8	13	82.7	85.9	57.5	57.0	
211	1.7	39.8	39.7	273.9	267.9	8	4	84.5	89.5	44.8	44.5	418
		42.3	42.2	273.9	268.4	8	14	84.4	89.9	42.3	42.1	
		44.8	44.6	274.0	268.9	8	24	84.4	90.4	39.8	39.6	
169	4.1	55.7	56.6	262.4	259.1	8	16	93.4	96.2	60.9	61.7	460
		58.2	59.7	262.9	259.9	8	26	93.7	96.8	58.4	58.9	
		60.7	61.4	263.3	260.5	8	36	94.1	97.4	55.9	56.4	
180	3.9	53.1	53.4	269.3	265.5	8	26	89.1	92.2	58.2	58.2	1317
		55.6	55.8	269.5	266.1	8	36	89.3	92.7	55.7	55.9	
		58.1	58.3	269.7	266.6	8	46	89.5	93.2	53.2	53.3	
179	3.9	56.5	56.3	273.4	270.1	8	37	83.9	86.6	61.5	61.1	1328
		58.9	59.8	273.5	270.5	8	47	83.9	86.9	59.1	58.7	
		61.4	61.2	273.6	270.9	8	57	84.0	87.3	56.6	56.2	
217	1.8	48.3	49.7	263.9	259.5	8	47	84.5	88.1	53.2	53.7	460
		50.8	51.4	264.3	261.3	8	57	84.8	88.8	50.7	51.3	
		53.3	53.9	264.7	261.1	9	7	85.2	89.6	48.2	48.9	
218	4.5	50.6	50.8	278.2	274.0	8	57	80.9	84.3	55.7	55.0	1326
		53.0	52.5	278.1	274.3	9	7	80.8	84.6	53.2	52.6	
		55.5	54.9	278.1	274.6	9	17	80.7	84.8	50.7	50.1	
218	4.5	53.3	52.5	278.1	274.3	9	7	80.1	83.2	58.2	57.5	488
		55.5	54.7	278.1	274.6	9	17	80.0	83.4	55.8	55.0	
		58.0	57.4	278.1	274.9	9	27	79.9	83.7	53.3	52.6	
1174	4.5	43.3	43.1	275.4	272.1	9	26	80.6	85.0	48.5	47.9	1326
		45.8	45.6	275.4	270.5	9	36	80.4	85.3	46.1	45.5	
		48.3	48.3	275.4	270.9	9	46	80.2	85.5	43.6	43.0	
244	4.5	48.9	48.9	271.8	267.4	9	39	86.7	90.3	54.2	54.0	1344
		51.4	51.4	271.9	267.9	9	49	86.8	90.8	51.7	51.6	
		53.9	53.8	272.1	268.4	9	59	86.9	91.3	49.2	49.1	
1175	5.0	50.4	51.1	264.3	260.2	9	53	94.1	97.5	55.4	55.9	501
		52.9	53.5	264.7	261.0	10	3	94.4	98.1	52.9	53.4	
		55.4	56.0	265.1	261.7	10	13	94.8	98.9	50.4	51.0	

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z.D.		AZ		HRS	MIN	Z.D.		AZ			
		LAT	LAT	LAT	LAT					LAT	LAT	LAT	LAT
285	3.1	39.3	39.0	277.0	270.9	10	4	79.3	84.4	44.2	43.5	3.0	488
		41.8	41.5	276.9	271.3	10	14	79.0	84.6	41.8	41.1		
		44.3	43.9	276.8	271.7	10	24	78.6	84.7	39.3	38.6		
291	0.5	39.5	39.6	272.2	266.2	10	17	87.1	92.2	44.7	44.7	5.0	1344
		42.0	42.0	272.3	266.8	10	27	87.2	92.7	42.2	42.2		
		44.5	44.5	272.4	267.4	10	37	87.3	93.3	39.7	38.8		
1295	5.1	40.1	40.7	266.9	261.0	10	31	89.6	94.6	45.4	45.6	4.9	1351
		42.6	43.1	267.2	261.9	10	41	89.9	95.2	42.9	43.1		
		45.1	45.5	267.6	262.7	10	51	90.1	95.9	40.4	40.7		
1187	4.1	54.2	54.8	265.8	262.3	10	47	90.6	93.6	59.5	58.7	2.8	547
		56.7	57.2	266.2	262.9	10	57	90.9	94.1	57.0	57.2		
		59.2	59.7	266.5	263.5	11	7	91.1	94.7	54.5	54.8		
1205	5.1	49.3	49.7	268.1	263.8	11	8	91.2	94.7	54.3	54.5	3.8	547
		51.8	52.1	268.4	264.5	11	18	91.4	95.3	51.8	52.1		
		54.3	54.6	268.6	265.1	11	28	91.7	96.0	49.3	49.6		
1223	4.2	40.7	40.7	273.0	267.2	11	20	86.6	91.5	45.6	45.5	5.1	1375
		43.2	43.1	273.1	267.9	11	30	86.7	92.0	43.1	43.0		
		45.6	45.6	273.2	268.3	11	40	86.7	92.6	40.6	40.6		
1205	5.1	57.3	57.5	269.0	265.8	11	40	87.5	90.1	62.2	62.1	3.8	588
		59.8	60.0	269.2	266.3	11	50	87.7	90.6	59.7	59.7		
		62.3	62.4	269.4	266.8	12	0	87.8	91.0	57.2	57.2		
1223	4.2	50.6	50.5	273.4	269.3	12	0	85.6	89.0	55.5	55.7	2.8	582
		53.1	53.0	273.5	269.7	12	10	85.6	89.4	53.1	52.8		
		55.6	55.4	273.6	270.1	12	20	85.7	89.8	50.6	50.4		
1249	4.8	39.5	39.6	271.4	265.3	12	16	87.9	93.0	44.4	44.4	5.4	562
		42.0	42.1	271.5	265.0	12	26	89.1	93.6	41.9	42.0		
		44.5	44.6	271.7	266.6	12	36	89.2	94.3	39.4	39.6		
1249	4.8	43.0	43.1	271.6	266.2	12	30	85.8	90.3	48.1	47.9	2.8	582
		45.5	45.5	271.7	266.8	12	40	85.8	90.7	45.6	45.4		
		48.0	48.0	271.9	267.4	12	50	85.8	91.2	43.1	43.0		
1257	4.1	47.9	48.6	264.0	259.6	12	49	92.4	96.1	53.1	53.4	4.8	1427
		50.4	51.0	264.5	260.4	12	59	92.7	96.8	50.6	51.0		
		52.8	53.4	264.9	261.1	13	9	93.1	97.5	48.1	48.6		
365	3.8	51.5	50.9	278.8	274.8	13	7	81.1	84.4	56.2	55.6	4.3	1442
		53.9	53.3	278.7	275.1	13	17	81.0	84.7	53.7	53.1		
		56.4	55.8	278.7	275.3	13	27	80.9	85.0	51.3	50.7		
378	4.9	49.0	48.6	276.4	272.1	13	16	81.0	84.7	54.0	53.4	4.3	1442
		51.4	51.0	276.4	272.4	13	26	80.9	84.9	51.5	50.9		
		53.9	53.5	276.4	272.8	13	36	80.8	85.2	49.1	48.5		
378	4.9	49.5	49.1	276.4	272.1	13	18	82.0	85.6	54.4	53.8	4.5	633
		51.9	51.5	276.4	272.5	13	28	82.0	85.9	51.9	51.4		
		54.4	54.0	276.4	272.8	13	38	81.9	86.2	49.4	48.9		
396	3.9	44.9	44.4	278.3	273.3	13	32	80.9	85.1	50.0	49.4	4.3	1442
		47.4	46.8	278.2	273.6	13	42	80.7	85.3	47.6	47.0		
		49.8	49.3	278.1	273.9	13	52	80.6	85.6	45.1	44.5		
418	4.7	40.8	40.6	275.6	269.8	13	48	80.7	85.5	46.1	45.5	4.3	1442
		43.3	43.0	275.6	270.2	13	58	80.5	85.7	43.7	43.1		
		45.8	45.5	275.5	270.6	14	8	80.2	86.0	41.2	40.6		
418	4.7	41.3	41.1	275.6	269.9	13	50	81.8	86.5	46.5	46.0	4.5	633
		43.8	43.5	275.5	270.3	14	0	81.6	86.8	44.0	43.5		
		46.3	46.0	275.5	270.7	14	10	81.5	87.1	41.6	41.1		
1284	5.1	45.5	45.7	270.3	265.4	14	2	88.7	92.8	50.7	50.8	4.4	1455
		48.0	48.1	270.5	266.0	14	12	88.9	93.4	48.2	48.3		
		50.5	50.6	270.7	266.6	14	22	89.1	93.9	45.7	45.9		
1297	5.2	42.2	42.5	268.9	263.4	14	16	89.0	93.6	47.2	47.3	4.4	1459
		44.7	45.0	269.2	264.1	14	26	89.1	94.2	44.7	44.9		
		47.2	47.4	269.4	264.8	14	36	89.3	94.8	42.2	42.4		
445	3.9	39.4	39.9	266.9	260.9	14	27	89.2	94.2	44.5	44.6	4.4	1455
		41.9	42.4	267.2	261.7	14	37	89.3	94.9	42.0	42.2		
		44.4	44.8	267.6	262.5	14	47	89.5	95.6	39.5	39.7		
445	3.8	42.1	42.6	267.3	261.8	14	38	90.9	95.5	47.2	47.4	3.7	668
		44.6	45.0	267.6	262.6	14	48	91.2	96.2	44.7	45.0		
		47.1	47.5	267.9	263.3	14	58	91.5	96.9	42.2	42.5		
1317	5.1	37.8	38.2	269.1	262.8	14	51	88.7	94.1	42.7	42.8	2.9	665
		40.3	40.6	269.4	263.6	15	1	88.8	94.7	40.2	40.4		
		42.8	43.1	269.6	264.3	15	11	89.0	95.4	37.7	37.9		
1297	5.2	53.4	53.6	270.0	266.3	15	1	88.2	91.3	58.4	58.3	4.5	709
		55.9	56.0	270.2	266.8	15	11	88.3	91.7	55.9	55.9		
		58.4	58.5	270.4	267.3	15	21	88.5	92.2	53.4	53.4		

CATNO	MAG	WEST STAR			AZ			LST			EAST STAR			MAG	CATNO
		Z.D.	LAT	LAT 10	LAT	LAT 10	HRS	MIN	LAT	LAT 10	Z.D.	LAT	LAT 10		
445	3.8	50.6	50.9	268.3	264.2	15	12	88.4	91.8	55.6	55.6	4.5	709		
		53.1	53.4	268.6	264.9	15	22	88.5	92.3	53.1	53.2				
		55.6	55.8	268.8	265.4	15	32	88.7	92.8	50.6	50.7				
445	3.8	54.3	54.6	268.7	265.1	15	27	89.4	92.4	59.2	59.3	3.4	730		
		56.8	57.0	269.0	265.7	15	37	89.6	92.9	56.7	56.9				
		59.3	59.5	269.2	266.3	15	47	89.8	93.4	54.3	54.4				
450	4.2	54.9	54.4	277.3	273.8	15	45	80.7	83.6	59.7	55.0	2.8	741		
		57.4	56.9	277.3	274.1	15	55	80.6	83.9	57.2	56.6				
		59.8	59.3	277.3	274.4	16	5	80.6	84.1	54.8	54.1				
460	4.0	54.2	54.8	265.7	262.2	15	55	91.9	94.8	59.2	59.4	4.0	746		
		56.7	57.2	266.0	262.8	16	5	92.2	95.4	56.7	57.0				
		59.2	59.7	266.4	263.4	16	15	92.4	96.0	54.2	54.5				
1329	5.2	49.8	49.5	276.0	271.7	16	5	80.6	84.1	54.8	54.1	2.8	741		
		52.3	52.0	276.0	272.1	16	15	80.5	84.4	52.3	51.7				
		54.8	54.4	276.0	272.5	16	25	80.4	84.6	49.9	45.2				
1344	5.0	44.4	44.4	272.9	267.8	16	15	84.6	88.9	49.3	49.0	4.7	1511		
		46.9	46.8	273.0	268.3	16	25	84.6	89.3	46.8	46.5				
		49.4	49.3	273.1	268.8	16	35	84.6	89.8	44.3	44.1				
501	3.4	44.9	45.6	264.3	259.3	16	32	93.0	97.1	49.9	50.4	4.0	746		
		47.3	48.0	264.7	260.2	16	42	93.3	97.8	47.5	47.9				
		49.8	50.4	265.1	261.0	16	52	93.7	98.6	45.0	45.5				
1351	4.9	48.3	48.5	270.6	266.1	16	47	87.1	90.8	53.6	53.5	5.4	1531		
		50.8	50.0	270.8	266.7	16	57	87.2	91.3	51.1	51.0				
		53.3	53.4	271.0	267.2	17	7	87.4	91.8	48.6	48.6				
1375	5.1	38.8	38.8	273.2	267.0	16	59	86.0	91.3	43.6	43.5	3.9	749		
		41.3	41.2	273.3	267.6	17	9	86.1	91.8	41.1	41.0				
		43.8	43.7	273.3	268.1	17	19	86.1	92.3	38.7	38.6				
1351	4.9	55.1	55.1	271.1	267.6	17	14	86.9	89.8	59.9	55.8	4.1	800		
		57.5	57.6	271.3	268.1	17	24	87.1	90.3	57.5	57.3				
		60.0	60.0	271.5	268.6	17	34	87.2	90.7	55.0	54.9				
516	4.3	55.6	55.9	268.6	265.2	17	43	89.8	92.6	60.7	60.8	5.5	1574		
		58.1	58.3	268.8	265.7	17	53	90.0	93.1	58.2	58.3				
		60.6	60.8	269.1	266.3	18	3	90.3	93.7	55.7	55.5				
533	5.0	54.9	55.6	263.8	260.4	18	5	93.4	96.2	60.1	60.5	3.2	827		
		57.3	58.0	264.2	261.1	18	15	93.7	96.8	57.6	58.1				
		59.8	60.4	264.6	261.7	18	25	94.0	97.4	55.1	55.6				
588	3.8	37.9	38.1	271.0	264.6	18	22	87.8	93.1	43.0	43.1	4.1	800		
		40.4	40.6	271.1	265.3	18	32	87.9	93.7	40.5	40.6				
		42.9	43.0	271.3	265.9	18	42	88.0	94.4	38.0	38.2				
588	3.8	44.6	44.7	271.4	266.3	18	49	86.2	90.5	49.8	49.7	3.7	834		
		47.1	47.2	271.6	266.9	18	59	86.3	90.9	47.3	47.2				
		49.6	49.7	271.7	267.5	19	9	86.4	91.4	44.8	44.7				
582	2.8	52.4	52.2	274.3	270.5	19	14	82.1	85.3	57.7	57.1	4.7	1603		
		54.9	54.7	274.4	270.9	19	24	82.1	85.6	55.2	54.7				
		57.4	57.1	274.5	271.3	19	34	82.1	85.9	52.7	52.2				
588	3.8	54.3	54.3	272.0	268.4	19	28	85.7	88.6	59.4	59.2	4.5	1614		
		56.8	56.8	272.2	269.9	19	38	85.8	89.0	56.9	56.7				
		59.3	59.2	272.3	269.3	19	48	85.9	89.4	54.5	54.3				
1427	4.8	49.3	49.7	267.1	262.9	19	38	89.7	93.2	54.4	54.5	3.9	878		
		51.8	52.2	267.4	263.5	19	48	89.9	93.8	51.9	52.1				
		54.3	54.6	267.7	264.2	19	58	90.1	94.4	49.4	49.6				
1427	4.8	52.5	52.9	267.5	263.7	19	51	91.2	94.4	57.5	57.7	4.6	1620		
		55.0	55.4	267.8	264.3	20	1	91.5	94.9	55.0	55.3				
		57.5	57.8	268.1	264.9	20	11	91.7	95.5	52.5	52.8				
1442	4.3	49.5	49.9	279.1	274.9	20	12	80.3	83.8	54.6	53.9	5.4	1625		
		51.4	51.4	279.0	275.1	20	22	80.2	84.1	52.2	51.5				
		54.4	53.8	279.0	275.4	20	32	80.0	84.3	49.7	45.0				
633	4.5	49.1	48.6	278.1	273.8	20	14	80.2	83.9	54.1	53.4	5.4	1625		
		51.6	51.0	278.0	274.1	20	24	80.1	84.1	51.7	51.0				
		54.0	53.5	278.0	274.4	20	34	80.0	84.3	49.2	48.5				
1459	4.4	44.0	44.1	270.8	265.6	20	22	87.0	91.4	49.0	48.9	4.3	892		
		46.5	46.6	271.0	266.2	20	32	87.1	91.9	46.5	46.5				
		49.0	49.0	271.2	266.8	20	42	87.2	92.4	44.0	44.0				
668	3.7	41.2	41.6	268.4	262.8	20	32	87.1	91.9	46.5	46.5	4.3	892		
		43.7	44.1	268.7	263.5	20	42	87.2	92.4	44.0	44.0				
		46.2	46.5	269.0	264.2	20	52	87.3	93.0	41.5	41.6				
680	3.7	40.6	40.0	278.9	273.0	20	49	79.7	84.6	45.5	44.9	5.4	1625		
		43.0	42.5	278.7	273.3	20	59	79.5	84.8	43.1	42.4				
		45.5	45.0	278.5	273.6	21	9	79.2	85.0	40.6	40.0				

CATNO	MAG	WEST STAR			AZ			LST HRS MIN	AZ			EAST STAR			MAG	CATNO		
		Z. D.			LAT	S	LAT 10		LAT	S	LAT 10	Z. D.						
		LAT	S	LAT 10	LAT	S	LAT 10	LAT	S	LAT 10	LAT	S	LAT 10					
665	2.9	50.4		50.5	271.8		267.7	21		5	84.4		87.8	55.4		55.0	4.6	28
		52.9		52.9	272.0		268.2	21		15	84.4		88.2	52.9		52.6		
		55.4		55.4	272.1		268.7	21		25	84.4		88.6	50.4		50.1		
668	3.7	53.7		53.9	269.7		266.0	21		22	88.9		92.0	58.5		56.6	5.3	1034
		56.2		56.3	269.9		266.6	21		32	89.1		92.5	56.0		56.1		
		58.7		58.8	270.1		267.1	21		42	89.3		93.0	53.6		53.7		
668	3.7	56.4		56.6	269.9		266.6	21		33	86.6		89.3	61.6		61.4	4.7	56
		58.9		59.0	270.2		267.2	21		43	86.7		89.7	59.1		58.9		
		61.4		61.5	270.4		267.6	21		53	86.8		90.1	56.6		56.5		
677	4.0	56.5		56.6	270.2		266.9	21		46	89.2		91.9	61.5		61.5	4.8	65
		59.0		59.1	270.4		267.4	21		56	89.4		92.4	59.0		59.1		
		61.5		61.5	270.6		267.9	22		6	89.6		92.9	56.5		56.6		
709	4.5	48.0		48.1	271.1		266.6	22		8	87.0		90.8	52.9		52.8	4.7	56
		50.5		50.6	271.3		267.2	22		18	87.1		91.3	50.4		50.3		
		53.0		53.1	271.5		267.7	22		28	87.3		91.8	47.9		47.8		
730	3.4	44.3		44.6	265.3		264.2	22		22	87.2		91.5	49.4		49.3	4.7	56
		46.8		47.0	269.5		264.8	22		32	87.3		92.0	46.9		46.9		
		49.3		49.5	269.8		265.5	22		42	87.4		92.5	44.4		44.4		
749	3.9	41.0		40.9	273.9		268.2	22		39	82.2		87.1	46.1		45.7	4.5	60
		43.5		43.3	274.0		268.7	22		49	82.1		87.4	43.7		43.2		
		45.9		45.8	274.0		269.2	22		59	82.0		87.7	41.2		40.7		
1511	4.7	49.0		49.7	275.4		271.0	22		50	83.3		86.9	54.0		53.5	4.3	85
		51.5		51.2	275.4		271.4	23		0	83.3		87.3	51.5		51.1		
		53.9		53.6	275.4		271.8	23		10	83.2		87.6	49.0		48.6		
749	3.9	46.2		46.1	274.0		269.2	23		0	83.3		87.3	51.5		51.1	4.3	85
		48.7		48.5	274.1		269.7	23		10	83.2		87.6	49.0		48.6		
		51.2		51.0	274.1		270.1	23		20	83.2		88.0	46.6		46.2		
756	3.4	46.3		47.0	264.0		259.3	23		14	93.7		97.7	51.3		51.8	4.0	91
		48.7		49.4	264.4		260.1	23		24	94.1		98.4	48.8		48.3		
		51.2		51.8	264.8		260.9	23		34	94.5		99.2	46.3		46.9		
746	4.0	53.2		53.6	267.4		263.7	23		24	89.2		92.3	58.4		56.5	5.0	1093
		55.7		56.0	267.7		264.4	23		34	89.4		92.8	55.9		56.0		
		58.2		58.5	268.0		264.9	23		44	89.6		93.3	53.5		53.6		
756	3.4	53.4		54.0	265.2		261.5	23		43	92.7		95.8	58.3		56.7	4.4	1101
		55.9		56.5	265.5		262.2	23		53	93.0		96.4	55.8		56.2		
		58.4		58.9	265.9		262.8	24		3	93.3		97.0	53.3		53.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 10	LAT 15	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15		
768	4.0	48.8	48.4	276.2	271.8	23	51	81.3	85.0	53.6	53.0	4.3	125
		51.2	50.9	276.4	272.4	0	1	81.5	85.5	51.2	50.6		
		53.7	53.3	276.7	273.0	0	11	81.6	86.0	48.7	48.2		
768	4.0	52.5	52.1	276.5	272.7	0	6	81.6	84.8	57.2	56.6	4.0	150
		54.9	54.5	276.8	273.2	0	16	81.8	85.3	54.8	54.2		
		57.4	56.9	277.0	273.8	0	26	81.9	85.8	52.3	51.8		
800	4.1	48.1	48.4	268.0	263.5	0	28	90.1	93.8	53.1	53.3	3.9	151
		50.5	50.8	268.5	264.4	0	38	90.5	94.6	50.6	50.9		
		53.0	53.3	268.9	265.2	0	48	91.0	95.4	48.2	48.5		
815	2.5	43.8	43.7	273.7	268.5	0	41	82.2	86.6	48.7	48.2	4.0	150
		46.2	46.1	274.0	269.2	0	51	82.3	87.1	46.2	45.8		
		48.7	48.5	274.3	269.9	1	1	82.4	87.6	43.8	43.4		
800	4.1	53.7	54.0	269.1	265.4	0	51	87.9	90.9	58.8	58.7	3.3	1134
		55.2	55.4	269.5	266.2	1	1	88.3	91.6	56.3	56.3		
		58.7	58.8	270.0	266.9	1	11	88.7	92.3	53.9	53.5		
834	3.7	42.7	43.1	268.2	262.8	1	1	87.1	91.7	47.7	47.6	4.3	1118
		45.1	45.5	268.7	263.7	1	11	87.4	92.4	45.2	45.2		
		47.6	47.9	269.1	264.6	1	21	87.8	93.2	42.8	42.8		
834	3.7	47.1	47.4	269.1	264.4	1	19	89.0	92.9	51.9	52.0	3.3	1134
		49.6	49.8	269.5	265.3	1	29	89.4	93.7	49.4	49.6		
		52.0	52.2	270.0	266.1	1	39	89.8	94.5	47.0	47.2		
834	3.7	51.5	51.7	269.0	265.9	1	37	89.0	92.4	56.2	56.3	1.7	201
		54.0	54.1	270.3	266.7	1	47	89.4	93.1	53.8	53.9		
		56.5	56.5	270.7	267.4	1	57	89.9	93.9	51.3	51.5		
834	3.7	55.0	55.1	270.5	267.0	1	51	87.2	90.1	60.1	59.9	0.6	224
		57.4	57.5	270.9	267.7	2	1	87.5	90.7	57.6	57.5		
		59.9	59.9	271.3	268.4	2	11	87.9	91.4	55.1	55.1		
1602	4.6	44.9	45.5	265.2	269.3	2	2	90.1	94.3	50.1	50.3	1.7	201
		47.3	47.3	265.8	261.3	2	12	90.5	95.1	47.6	47.9		
		49.8	50.3	266.4	262.2	2	22	91.0	95.9	45.2	45.5		
1614	4.5	41.7	42.1	268.2	262.7	2	15	90.7	95.3	46.9	47.2	1.7	261
		44.2	44.5	268.7	263.6	2	25	91.1	96.2	44.4	44.8		
		46.7	46.9	269.2	264.5	2	35	91.6	97.1	42.0	42.4		
855	3.6	56.9	56.4	276.3	273.1	2	32	80.6	83.3	61.7	61.0	3.4	256
		59.3	58.0	276.6	273.6	2	42	80.8	83.8	59.3	58.6		
		61.7	61.3	276.9	274.2	2	52	81.0	84.3	56.8	56.2		
932	4.0	41.6	41.9	268.9	263.3	2	46	89.2	94.0	46.5	46.7	0.6	224
		44.0	44.3	269.4	264.3	2	56	89.7	94.8	44.1	44.3		
		46.5	46.7	269.8	265.1	3	6	90.1	95.7	41.6	41.8		
885	4.7	50.9	50.4	278.2	274.2	2	56	81.1	84.5	55.9	55.2	3.4	256
		53.4	52.8	278.4	274.7	3	6	81.3	85.0	53.4	52.8		
		55.8	55.2	278.6	275.2	3	16	81.4	85.5	51.0	50.4		
1625	5.4	48.9	47.7	275.6	271.1	3	7	81.3	85.0	53.2	52.6	3.4	256
		50.5	51.1	275.9	271.7	3	17	81.4	85.5	50.8	50.2		
		52.9	52.5	276.1	272.3	3	27	81.5	86.0	48.3	47.8		
892	4.3	55.1	55.3	269.8	266.3	3	21	86.0	88.9	60.4	60.2	3.1	285
		57.6	57.7	270.2	267.0	3	31	86.4	89.5	58.0	57.8		
		60.1	60.1	270.6	267.8	3	41	86.7	90.2	55.5	55.4		
902	4.0	52.9	53.0	270.0	267.2	3	32	86.4	89.6	57.7	57.5	3.1	285
		55.4	55.4	271.3	267.9	3	42	86.7	90.2	55.3	55.1		
		57.8	57.8	271.7	268.6	3	52	87.1	90.9	52.8	52.7		
36	4.5	45.0	45.1	271.0	266.0	4	4	87.5	91.7	49.9	48.8	3.1	285
		47.5	47.5	271.4	266.8	4	14	87.8	92.4	47.4	47.4		
		49.9	49.9	271.8	267.6	4	24	88.2	93.2	44.9	45.0		
1034	5.3	45.2	45.8	265.0	260.1	4	17	91.5	95.6	50.0	51.4	0.5	291
		47.6	48.2	265.5	261.1	4	27	92.0	96.5	47.6	48.0		
		50.1	50.6	266.2	262.1	4	37	92.5	97.4	45.1	45.6		
36	4.5	50.9	50.9	271.9	267.9	4	28	85.5	88.9	56.0	55.7	3.8	312
		53.4	53.3	272.3	269.6	4	38	85.8	89.5	53.5	53.3		
		55.8	55.7	272.7	269.3	4	48	86.1	90.2	51.1	50.9		
1034	5.3	52.3	52.7	266.7	262.9	4	46	89.5	92.8	57.2	57.3	4.2	1223
		54.8	55.1	267.2	263.7	4	56	90.0	93.5	54.7	54.9		
		57.2	57.5	267.7	264.5	5	6	90.4	94.3	52.3	52.5		
56	4.7	49.1	49.5	268.5	264.2	4	58	90.1	93.7	54.2	54.4	4.2	1223
		51.6	51.9	269.0	265.0	5	8	90.5	94.4	51.8	52.0		
		54.1	54.3	269.4	265.8	5	18	91.0	95.2	49.3	49.6		
85	4.3	40.5	40.6	271.2	265.4	5	11	86.8	91.8	45.4	45.4	3.8	312
		42.9	43.0	271.6	266.2	5	21	87.1	92.5	43.0	43.0		
		45.4	45.4	271.9	267.0	5	31	87.4	93.3	40.5	40.5		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT 10	LAT 15	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15	LAT 10	LAT 15		
1072	5.0	42.6	43.1	267.3	261.9	5	26	91.3	95.9	47.3	47.7	4.2	1223
		45.1	45.5	267.8	262.9	5	36	91.8	96.8	44.9	45.3		
		47.5	47.9	268.3	263.8	5	46	92.4	97.8	42.4	42.9		
85	4.3	46.6	46.6	272.1	267.4	5	36	84.1	88.1	51.7	51.4	5.1	1238
		49.1	49.0	272.5	268.1	5	46	84.4	88.7	49.3	49.0		
		51.5	51.5	272.8	268.8	5	56	84.6	89.3	46.8	46.6		
107	2.8	41.5	42.2	264.7	259.2	5	47	91.2	95.9	46.5	46.8	3.3	334
		44.0	44.6	265.4	260.3	5	57	91.7	96.8	44.0	44.4		
		46.4	47.0	266.0	261.3	6	7	92.2	97.8	41.6	42.0		
98	4.4	47.5	47.3	274.5	269.9	5	57	83.3	87.1	52.5	52.1	5.1	1246
		50.0	49.7	274.8	270.5	6	7	83.5	87.7	50.0	49.7		
		52.4	52.1	275.0	271.2	6	17	83.7	88.2	47.6	47.2		
1083	4.7	46.9	46.9	272.8	268.1	6	9	85.1	89.0	51.9	51.7	3.8	365
		49.4	49.3	273.1	268.8	6	19	85.4	89.7	49.5	49.2		
		51.8	51.7	273.4	269.5	6	29	85.6	90.3	47.0	46.8		
85	4.3	57.2	57.0	273.6	270.3	6	19	84.6	87.2	62.2	61.8	3.9	396
		59.6	59.4	273.9	271.0	6	29	84.9	87.8	59.7	59.4		
		62.1	61.8	274.2	271.6	6	39	85.2	88.4	57.3	57.0		
123	3.8	46.7	46.6	273.9	269.2	6	36	82.5	86.4	51.8	51.3	1.3	380
		49.2	49.0	274.2	269.9	6	46	82.6	86.9	49.4	48.9		
		51.7	51.4	274.5	270.5	6	56	82.8	87.5	46.9	46.5		
1118	4.3	37.6	37.8	271.5	265.1	6	47	86.1	91.5	42.6	42.5	3.8	365
		40.1	40.2	271.9	265.9	6	57	86.3	92.3	40.1	40.1		
		42.5	42.6	272.2	266.8	7	7	86.6	93.1	37.7	37.7		
1093	5.0	55.1	55.6	267.0	263.6	6	59	91.5	94.4	60.0	60.2	5.1	1284
		57.6	58.0	267.6	264.4	7	9	92.0	95.1	57.5	57.8		
		60.1	60.4	268.0	265.2	7	19	92.5	95.9	55.0	55.4		
1118	4.3	44.0	44.0	272.4	267.2	7	13	86.2	90.6	48.9	48.8	3.9	356
		46.5	46.4	272.7	268.0	7	23	86.5	91.2	46.5	46.4		
		48.9	48.9	273.1	268.7	7	33	86.8	91.9	44.0	44.0		
1134	3.3	39.7	40.1	268.9	262.9	7	29	86.6	91.7	45.0	44.9	3.9	396
		42.2	42.5	269.3	263.8	7	39	86.9	92.4	42.5	42.5		
		44.6	44.9	269.8	264.7	7	49	87.2	93.2	40.1	40.1		
151	3.9	54.8	54.9	270.2	266.7	7	43	88.1	91.0	59.8	59.8	4.2	1302
		57.3	57.3	270.7	267.4	7	53	88.5	91.7	57.4	57.4		
		59.7	59.7	271.1	268.1	8	3	88.9	92.4	54.9	55.0		
179	3.8	46.0	46.3	268.1	263.3	7	55	90.2	94.3	50.9	51.1	4.1	427
		48.4	48.7	268.6	264.2	8	5	90.6	95.1	48.4	48.7		
		50.9	51.1	269.1	265.0	8	15	91.1	95.9	45.9	46.3		
179	3.8	48.9	49.2	269.7	264.4	8	7	89.0	92.7	53.9	54.0	4.2	1302
		51.4	51.6	269.2	265.2	8	17	89.4	93.4	51.5	51.6		
		53.8	54.0	269.6	266.0	8	27	89.9	94.2	49.0	49.2		
251	1.7	44.6	45.0	269.9	263.9	8	24	89.7	94.0	49.7	49.9	4.2	1302
		47.1	47.4	269.4	264.8	8	34	90.2	94.8	47.3	47.5		
		49.6	49.8	269.8	265.6	8	44	90.6	95.6	44.8	45.1		
1134	3.3	56.2	56.2	271.7	268.3	8	36	86.5	89.3	61.4	61.2	5.2	1326
		59.7	59.6	272.1	269.0	8	46	86.9	89.9	58.9	58.8		
		61.1	61.0	272.4	269.7	8	56	87.2	90.6	56.4	56.3		
224	2.6	43.3	43.5	270.2	264.9	8	49	87.0	91.5	48.1	48.0	4.2	450
		45.7	45.9	270.6	265.8	8	59	87.4	92.3	45.7	45.6		
		48.2	48.3	271.0	266.6	9	9	87.7	93.0	43.2	43.2		
244	4.5	39.3	40.0	265.0	259.1	9	0	90.5	95.6	44.6	44.8	4.6	1311
		41.8	42.4	265.7	260.2	9	10	91.0	96.5	42.1	42.4		
		44.3	44.8	266.3	261.3	9	20	91.5	97.5	39.6	40.0		
1161	5.3	49.9	50.8	262.2	258.1	9	15	92.8	96.3	54.8	55.2	3.7	484
		52.4	53.1	262.9	259.1	9	25	93.3	97.1	52.4	52.8		
		54.8	55.5	263.5	260.1	9	35	93.9	98.0	49.9	50.4		
1174	4.5	42.9	43.1	271.1	264.7	9	25	85.0	89.5	48.1	47.9	5.0	1326
		45.3	45.5	270.5	265.5	9	35	85.3	90.2	45.7	45.5		
		47.8	47.9	270.9	266.4	9	45	85.5	90.8	43.2	43.1		
244	4.5	48.9	49.3	267.4	263.1	9	39	90.3	94.0	54.0	54.2	5.0	1344
		51.4	51.7	267.9	263.9	9	49	90.8	94.8	51.6	51.8		
		53.8	54.1	268.4	264.8	9	59	91.3	95.6	49.1	49.4		
256	3.4	47.0	46.5	278.4	273.7	9	56	80.1	84.1	51.8	51.1	5.2	1349
		49.5	48.9	278.5	274.2	10	6	80.2	84.5	49.3	48.7		
		51.9	51.3	278.6	274.7	10	16	80.3	85.0	46.9	46.3		
1169	5.1	56.8	56.2	278.2	274.9	10	7	80.4	83.2	61.5	60.8	5.3	1372
		59.2	58.6	278.4	275.4	10	17	80.6	83.7	59.1	58.4		
		61.6	61.0	278.6	275.9	10	27	80.8	84.1	56.6	56.0		

CATAC	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATAC
		LAT 10	LAT 15	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15	LAT 10	LAT 15		
1193	4.9	41.6	41.2	276.9	271.3	10	18	80.3	85.1	46.4	45.8	5.2	1349
		44.0	43.6	277.0	271.8	10	28	80.3	85.5	44.0	43.4		
		46.4	46.0	277.2	272.4	10	38	80.3	86.0	41.6	41.0		
1197	4.1	54.8	55.6	262.3	259.9	10	47	93.6	96.5	59.7	60.1	3.8	547
		57.2	58.0	262.9	259.8	10	57	94.1	97.3	57.2	57.7		
		59.7	60.3	263.5	260.7	11	7	94.7	98.2	54.8	55.3		
1205	5.1	49.7	50.4	263.8	255.7	11	8	94.7	98.2	54.5	55.1	3.8	547
		52.1	52.8	264.5	260.7	11	18	95.3	99.2	52.1	52.7		
		54.6	55.2	265.1	261.6	11	28	96.0	100.1	49.6	50.3		
1223	4.2	47.7	41.2	267.2	261.5	11	20	91.5	96.4	45.5	45.9	5.1	1375
		43.1	43.5	267.8	262.5	11	30	92.0	97.3	43.0	43.5		
		45.6	45.9	268.3	263.4	11	40	92.6	98.4	40.6	41.1		
1224	4.5	46.9	47.5	265.3	260.7	11	45	91.4	95.3	52.0	52.3	5.4	562
		49.4	49.9	265.9	261.7	11	55	91.9	96.2	49.6	49.9		
		51.8	52.3	266.5	262.6	12	5	92.4	97.0	47.1	47.5		
1223	4.2	50.5	57.7	269.3	265.2	12	0	89.0	92.5	55.3	55.4	2.8	562
		53.0	53.2	269.7	265.9	12	10	89.4	93.2	52.8	52.9		
		55.4	55.6	270.1	266.7	12	20	89.8	94.0	50.4	50.5		
1249	4.8	39.6	47.3	265.3	259.4	12	16	93.0	98.1	44.4	44.9	5.4	562
		42.1	42.7	266.0	260.5	12	26	93.5	99.1	42.0	42.5		
		44.6	45.1	266.6	261.6	12	36	94.3	100.2	39.5	40.1		
1249	4.8	43.1	43.6	266.2	261.3	12	30	90.3	94.8	47.9	48.1	2.8	562
		45.5	46.0	266.9	262.3	12	40	90.7	95.6	45.4	45.7		
		48.0	48.4	267.4	262.9	12	50	91.2	96.5	43.0	43.3		
337	4.3	57.3	56.7	277.8	274.6	12	51	80.8	83.4	62.0	61.3	4.9	635
		59.7	59.1	278.1	275.1	13	1	81.0	83.9	59.6	58.9		
		62.1	61.5	278.3	275.6	13	11	81.2	84.8	57.2	56.5		
365	3.8	50.9	50.6	274.9	270.7	13	7	84.4	87.9	55.6	55.2	4.3	1442
		53.3	53.1	275.1	271.3	13	17	84.7	88.5	53.1	52.8		
		55.8	55.5	275.3	271.9	13	27	85.0	89.1	50.7	50.4		
373	4.9	49.1	49.1	272.1	267.8	13	18	85.6	89.3	53.8	53.6	4.5	633
		51.5	51.5	272.5	268.5	13	28	85.9	89.9	51.4	51.2		
		54.0	53.9	272.9	269.2	13	38	86.2	90.6	48.9	48.8		
396	3.7	44.4	44.3	273.3	268.2	13	32	85.1	89.4	49.4	49.2	4.3	1442
		46.8	46.7	273.6	268.9	13	42	85.3	90.0	47.0	46.8		
		49.3	49.2	273.9	269.5	13	52	85.6	90.7	44.5	44.4		
413	4.7	45.6	47.9	269.8	264.3	13	48	85.5	90.4	45.5	45.3	4.3	1442
		43.2	43.3	271.2	264.9	13	58	85.7	91.1	43.1	42.9		
		45.5	45.7	271.6	265.7	14	8	86.0	91.8	40.6	40.5		
419	5.3	47.4	47.1	275.3	270.7	14	1	81.8	85.7	52.2	51.7	2.1	666
		49.8	49.5	275.6	271.3	14	11	81.9	86.2	49.8	49.2		
		52.3	51.9	275.8	271.9	14	21	82.1	86.7	47.3	46.8		
1284	5.1	47.9	48.4	266.0	261.5	14	11	91.9	95.7	52.7	53.0	2.9	665
		50.3	50.8	266.5	262.4	14	21	92.4	96.5	50.2	50.6		
		52.8	53.2	267.1	263.3	14	31	92.9	97.4	47.8	48.2		
413	4.7	49.4	49.5	271.3	267.0	14	24	85.3	88.9	54.7	54.5	3.7	666
		51.9	51.9	271.7	267.7	14	34	85.6	89.5	52.3	52.1		
		54.4	54.3	272.0	268.4	14	44	85.9	90.1	49.8	49.6		
418	4.7	53.1	53.1	271.8	268.1	14	39	85.4	88.5	59.2	58.0	5.4	1484
		55.6	55.6	272.2	268.8	14	49	85.7	89.1	55.8	55.6		
		58.1	58.0	272.6	269.5	14	59	86.0	89.8	53.3	53.1		
451	4.2	42.1	42.2	272.2	266.6	14	55	86.2	90.9	47.1	47.0	3.7	666
		44.6	44.6	272.5	267.4	15	5	86.5	91.5	44.7	44.6		
		47.0	47.0	272.8	268.2	15	15	86.8	92.3	42.2	42.2		
445	3.3	50.7	51.3	264.2	260.2	15	11	91.7	95.1	55.9	56.2	4.5	709
		53.1	53.7	264.8	261.1	15	21	92.2	95.9	53.4	53.8		
		55.6	56.1	265.4	262.0	15	31	92.7	96.8	50.9	51.4		
445	3.3	54.6	55.2	265.1	261.7	15	27	92.4	95.3	59.3	59.7	3.4	730
		57.0	57.5	265.7	262.5	15	37	92.9	96.1	56.9	57.2		
		59.5	59.9	266.3	263.3	15	47	93.4	96.9	54.4	54.8		
1302	4.2	57.5	57.5	271.5	268.3	15	37	85.2	87.9	62.3	62.0	0.9	745
		59.9	59.9	271.9	269.0	15	47	85.6	88.5	59.8	59.6		
		62.4	62.3	272.3	269.7	15	57	85.9	89.1	57.4	57.1		
1326	5.0	46.3	46.0	274.8	270.0	15	49	83.2	87.2	51.0	50.6	5.1	725
		48.7	48.5	275.0	270.6	15	59	83.4	87.8	48.6	48.2		
		51.2	50.9	275.3	271.2	16	9	83.5	88.4	46.1	45.8		
1326	5.0	49.7	49.4	275.1	270.9	16	3	84.1	87.7	54.6	54.3	2.8	741
		52.1	51.8	275.4	271.5	16	13	84.3	88.2	52.2	51.8		
		54.6	54.2	275.6	272.1	16	23	84.6	88.8	49.7	49.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 10	LAT 15	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15		
484	3.7	49.6	50.2	266.1	261.9	16	13	89.2	92.8	54.8	54.9	3.9	749
		52.1	52.6	266.6	262.8	16	23	89.7	93.5	52.4	52.5		
		54.5	54.9	267.2	263.6	16	33	90.1	94.3	49.9	50.1		
1344	5.0	46.8	47.2	268.3	263.6	16	25	89.7	93.7	51.9	52.0	3.9	749
		49.3	49.6	268.8	264.5	16	35	90.2	94.4	49.4	49.6		
		51.8	52.0	269.2	265.3	16	45	90.6	95.3	47.0	47.2		
488	3.0	53.0	52.6	276.4	272.6	16	37	83.0	86.1	57.7	57.2	4.0	768
		55.4	55.0	276.6	273.2	16	47	83.2	86.7	55.3	54.8		
		57.9	57.4	276.9	273.7	16	57	83.4	87.2	52.8	52.4		
1351	4.9	48.5	49.0	266.1	261.8	16	47	90.8	94.5	53.5	53.7	5.4	1531
		50.9	51.4	266.7	262.7	16	57	91.3	95.3	51.0	51.3		
		53.4	53.8	267.2	263.6	17	7	91.8	96.2	48.6	48.9		
1375	5.1	38.8	39.3	267.0	260.8	16	59	91.3	96.5	43.5	43.8	3.9	749
		41.2	41.7	267.6	261.9	17	9	91.8	97.5	41.0	41.5		
		43.7	44.1	268.1	262.9	17	19	92.3	98.5	38.6	39.1		
1351	4.9	54.9	55.2	267.6	264.1	17	13	89.8	92.7	60.0	60.2	4.1	800
		57.3	57.6	268.1	264.9	17	23	90.2	93.4	57.6	57.7		
		59.8	60.0	268.5	265.6	17	33	90.7	94.1	55.1	55.3		
516	4.3	55.9	56.4	265.2	261.8	17	43	92.6	95.4	60.8	61.2	5.5	1574
		58.3	58.8	265.7	262.7	17	53	93.1	96.2	58.3	58.8		
		60.8	61.2	266.3	263.5	18	3	93.7	97.0	55.9	56.4		
1375	5.1	55.3	55.4	270.3	266.8	18	6	88.7	91.5	60.2	60.3	3.7	834
		57.7	57.8	270.7	267.5	18	16	89.1	92.2	57.8	57.8		
		60.2	60.2	271.1	268.2	18	26	89.5	92.9	55.3	55.4		
589	3.8	38.1	38.9	264.6	258.3	18	22	93.1	96.4	43.1	43.6	4.1	800
		40.6	41.2	265.3	259.5	18	32	93.7	99.5	40.6	41.2		
		43.0	43.6	265.9	260.6	18	42	94.4	100.6	38.2	38.8		
589	3.8	44.7	45.3	266.3	261.4	18	49	90.5	94.7	49.7	49.9	3.7	834
		47.2	47.7	266.9	262.3	18	59	90.9	95.5	47.2	47.5		
		49.7	50.1	267.5	263.2	19	9	91.4	96.4	44.7	45.1		
582	2.8	52.2	52.3	270.5	266.6	19	14	85.3	88.6	57.1	56.8	4.7	1603
		54.7	54.7	270.9	267.4	19	24	85.6	89.2	54.7	54.4		
		57.1	57.2	271.3	268.1	19	34	85.9	89.8	52.2	52.0		
1442	4.3	37.6	37.6	273.8	267.3	19	26	82.9	88.4	42.8	42.5	4.9	843
		40.1	40.0	274.0	268.0	19	36	83.0	88.9	40.4	40.0		
		42.5	42.4	274.2	268.8	19	46	83.1	89.5	37.9	37.6		
1427	4.8	49.7	50.5	262.9	258.7	19	38	93.2	96.8	54.5	55.0	3.9	878
		52.2	52.9	263.5	259.7	19	48	93.8	97.6	52.1	52.6		
		54.6	55.3	264.2	260.7	19	58	94.4	98.6	49.6	50.2		
1442	4.3	46.0	45.8	274.6	269.7	20	0	81.8	85.8	51.0	50.5	4.7	885
		48.4	48.2	274.8	270.4	20	10	81.9	86.3	48.6	48.1		
		50.9	50.6	275.1	271.0	20	20	82.0	86.8	46.1	45.7		
1442	4.3	48.9	48.7	274.9	270.5	20	12	83.8	87.5	53.9	53.5	5.4	1625
		51.4	51.1	275.1	271.1	20	22	84.1	88.1	51.5	51.1		
		53.8	53.5	275.4	271.7	20	32	84.3	88.6	49.0	48.7		
633	4.5	48.6	48.4	273.8	269.3	20	14	83.9	87.6	53.4	53.1	5.4	1625
		51.0	51.9	274.1	270.0	20	24	84.1	88.2	51.0	50.7		
		53.5	53.3	274.4	270.6	20	34	84.3	88.8	48.5	48.2		
1459	4.4	44.1	44.7	265.6	260.6	20	22	91.4	95.7	48.9	49.3	4.3	892
		46.6	47.1	266.2	261.6	20	32	91.9	96.6	46.5	46.9		
		49.0	49.5	266.8	262.5	20	42	92.4	97.5	44.0	44.5		
665	2.9	44.1	44.6	266.2	261.1	20	39	89.7	93.9	49.4	49.5	4.0	902
		46.5	47.0	266.8	262.1	20	49	90.1	94.7	46.9	47.1		
		49.0	49.4	267.4	263.1	20	59	90.5	95.6	44.4	44.7		
687	3.7	40.0	40.0	273.0	267.0	20	49	84.6	89.7	44.9	44.6	5.4	1625
		42.5	42.4	273.3	267.8	20	59	84.8	90.3	42.4	42.2		
		45.0	44.9	273.6	268.5	21	9	85.0	91.0	40.0	39.8		
665	2.9	50.2	50.6	267.6	263.5	21	4	87.8	91.3	55.3	55.2	4.6	28
		52.7	53.0	268.1	264.3	21	14	88.2	92.0	52.8	52.8		
		55.1	55.4	268.6	265.2	21	24	88.5	92.7	50.3	50.4		
668	3.7	53.6	54.1	266.0	262.3	21	21	92.0	95.0	58.8	59.1	5.3	1034
		56.1	56.5	266.5	263.2	21	31	92.4	95.7	56.4	56.7		
		58.5	58.9	267.0	264.0	21	41	93.0	96.6	53.9	54.3		
665	2.9	56.9	57.1	268.9	265.7	21	31	89.2	91.9	61.9	61.9	4.7	56
		59.3	59.5	269.4	266.4	21	41	89.6	92.6	59.4	59.5		
		61.8	61.9	269.8	267.2	21	51	90.1	93.3	57.0	57.1		
677	4.0	56.6	57.0	266.9	263.6	21	46	91.9	94.6	61.5	61.8	4.8	65
		59.1	59.4	267.4	264.4	21	56	92.4	95.4	59.1	59.4		
		61.5	61.8	267.9	265.2	22	6	92.9	96.2	56.6	57.0		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT 10	LAT 15	LAT 10	LAT 15	HRS	MIN	LAT 10	LAT 15	LAT 10	LAT 15		
709	4.5	47.9	48.4	266.6	262.1	22	7	90.8	94.5	53.0	53.2	4.7	56
		50.3	50.8	267.1	263.0	22	17	91.2	95.3	50.6	50.8		
		52.8	53.2	267.7	263.9	22	27	91.7	96.2	48.1	48.4		
730	3.4	44.3	45.1	264.1	259.1	22	21	91.4	95.7	49.6	49.9	4.7	56
		46.8	47.4	264.8	260.2	22	31	91.9	96.5	47.1	47.5		
		49.2	49.8	265.4	261.2	22	41	92.5	97.5	44.6	45.1		
749	3.9	40.6	41.1	268.1	262.3	22	38	87.0	91.9	45.9	45.9	4.5	60
		43.1	43.5	268.6	263.3	22	48	87.3	92.6	43.5	43.5		
		45.6	45.9	269.1	264.2	22	58	87.7	93.4	41.0	41.0		
1511	4.7	48.7	48.8	271.0	266.6	22	50	86.9	90.6	53.5	53.4	4.3	85
		51.2	51.2	271.4	267.4	23	0	87.3	91.3	51.1	51.0		
		53.6	53.6	271.8	268.1	23	10	87.6	92.0	48.6	48.6		
749	3.9	46.1	46.3	269.2	264.4	23	0	87.3	91.3	51.1	51.0	4.3	85
		48.5	48.7	269.7	265.3	23	10	87.6	92.0	48.6	48.6		
		51.0	51.1	270.1	266.1	23	20	88.0	92.8	46.2	46.2		
730	3.4	56.6	57.0	267.1	263.8	23	11	91.6	94.3	61.7	62.0	5.0	1093
		59.1	59.4	267.6	264.6	23	21	92.1	95.1	59.2	59.5		
		61.5	61.8	268.1	265.4	23	31	92.6	95.9	56.8	57.1		
746	4.7	53.6	54.3	263.7	260.1	23	24	92.3	95.3	58.5	58.8	5.0	1093
		56.0	56.7	264.4	261.0	23	34	92.8	96.1	56.0	56.4		
		58.5	59.1	264.9	261.9	23	44	93.3	96.9	53.6	54.0		

CATNO	MAG	WEST STAR				AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.		Z.D.		HRS	MIN	Z.D.		Z.D.					
		LAT 15	LAT 20	LAT 15	LAT 20			LAT 15	LAT 20	LAT 15	LAT 20				
768	4.0	48.2	48.2	271.8	267.3	23	50	85.0	88.7	53.2	53.0	4.3	125		
		50.6	50.6	272.3	268.2	0	0	85.5	89.6	50.8	50.6				
		53.0	52.9	272.9	269.1	0	10	86.0	90.4	48.4	48.3				
768	4.0	51.8	51.8	272.6	268.7	0	5	84.8	88.0	56.9	56.6	4.0	150		
		54.2	54.1	273.2	269.6	0	15	85.3	88.9	54.5	54.2				
		56.6	56.5	273.7	270.4	0	25	85.8	89.7	52.1	51.9				
778	4.5	52.4	51.9	277.6	273.7	0	20	80.9	84.1	57.4	56.7	3.9	159		
		54.8	54.2	278.0	274.4	0	30	81.3	84.8	55.0	54.4				
		57.2	56.6	278.4	275.2	0	40	81.7	85.5	52.6	52.0				
778	4.5	54.3	53.8	277.9	274.3	0	28	79.5	82.5	59.2	58.4	1.1	168		
		56.7	56.1	278.3	275.0	0	38	79.9	83.2	56.8	56.0				
		59.1	58.4	278.7	275.7	0	48	80.3	83.9	54.4	53.7				
1541	4.5	53.9	53.2	279.1	275.5	0	30	79.6	82.7	58.7	57.9	1.1	166		
		56.2	55.6	279.5	276.2	0	40	80.0	83.3	56.3	55.6				
		58.6	57.9	279.9	276.8	0	50	80.3	84.0	53.9	53.2				
815	2.5	43.4	43.8	268.4	263.2	0	40	86.5	91.0	48.4	48.3	4.0	150		
		45.8	46.1	269.1	264.3	1	50	87.1	91.9	46.0	46.0				
		48.2	48.5	269.8	265.4	1	0	87.6	92.8	43.6	43.6				
800	4.1	54.0	54.5	265.4	261.9	0	51	90.9	94.0	58.7	58.0	3.3	1134		
		56.4	56.9	266.2	262.9	1	1	91.6	94.9	56.3	56.6				
		58.8	59.2	266.9	263.9	1	11	92.3	95.9	53.9	54.3				
800	4.1	54.2	54.8	265.5	262.0	0	52	92.5	95.4	59.2	59.5	3.8	179		
		56.6	57.1	266.3	263.0	1	2	93.2	96.4	56.8	57.2				
		59.0	59.4	267.0	264.0	1	12	93.9	97.5	54.3	54.8				
1574	5.5	50.8	51.7	269.9	256.9	1	6	93.5	96.8	55.8	56.2	3.8	175		
		53.1	54.0	261.9	258.2	1	16	94.2	97.9	53.4	53.9				
		55.5	56.3	262.7	259.4	1	26	95.0	99.0	51.0	51.6				
834	3.7	47.2	47.8	264.3	259.8	1	18	92.8	96.7	52.2	52.6	3.3	1134		
		49.6	50.2	265.2	261.0	1	28	93.6	97.8	49.8	50.3				
		52.0	52.5	266.0	262.1	1	38	94.4	98.9	47.4	48.0				
834	3.7	51.5	52.0	265.8	261.9	1	36	92.3	95.6	56.5	56.9	1.7	201		
		53.9	54.3	266.6	263.0	1	46	93.0	96.6	54.1	54.6				
		56.3	56.7	267.3	264.0	1	56	93.8	97.7	51.7	52.2				
834	3.7	55.1	55.5	267.0	263.5	1	51	90.1	92.9	59.9	60.1	0.6	224		
		57.5	57.9	267.7	264.5	2	1	90.7	93.9	57.5	57.7				
		59.9	60.2	268.4	265.5	2	11	91.4	94.9	55.1	55.4				
843	4.9	53.8	53.6	274.2	270.5	2	2	81.6	84.6	58.9	58.2	4.4	232		
		56.2	55.9	274.7	271.3	2	12	82.0	85.3	56.5	55.9				
		58.6	58.3	275.2	272.1	2	22	82.4	86.1	54.1	53.6				
855	3.6	52.8	52.8	272.2	268.4	2	17	84.8	87.9	57.8	57.5	5.1	1169		
		55.2	55.1	272.8	269.3	2	27	85.3	88.7	55.4	55.1				
		57.7	57.5	273.3	270.2	2	37	85.8	89.6	53.0	52.8				
1603	4.7	49.8	50.1	269.6	265.4	2	29	85.4	88.9	54.9	54.7	5.1	1169		
		52.3	52.4	270.2	266.4	2	39	85.9	89.7	52.5	52.3				
		54.7	54.7	270.9	267.3	2	49	86.4	90.6	50.1	50.0				
871	2.6	52.1	51.6	277.6	273.7	2	48	80.0	83.3	56.7	56.0	1.9	251		
		54.5	53.9	278.0	274.5	2	50	80.3	83.9	54.4	53.7				
		56.9	56.3	278.5	275.2	3	0	80.7	84.6	52.0	51.3				
892	4.3	48.8	49.5	264.1	259.8	2	54	91.8	95.5	53.8	54.2	4.5	1174		
		51.2	51.8	265.0	261.0	3	4	92.5	96.5	51.4	51.8				
		53.6	54.1	265.8	262.1	3	14	93.3	97.6	49.0	49.5				
902	4.0	46.5	47.1	265.0	260.4	3	5	92.6	96.6	51.2	51.6	4.5	1174		
		48.9	49.4	265.9	261.6	3	15	93.4	97.7	48.8	49.3				
		51.3	51.8	266.6	262.7	3	25	94.2	98.9	46.4	46.9				
1614	4.5	56.6	56.9	267.6	264.3	3	15	88.5	91.2	61.6	61.6	3.1	285		
		59.0	59.3	268.3	265.3	3	25	89.1	92.1	59.2	59.3				
		61.4	61.6	269.0	266.3	3	35	89.8	93.0	56.8	56.9				
902	4.7	52.7	53.2	267.1	263.3	3	31	89.5	92.7	57.8	57.9	3.1	285		
		55.2	55.5	267.8	264.4	3	41	90.2	93.6	55.4	55.5				
		57.6	57.8	268.5	265.4	3	51	90.8	94.6	53.0	53.2				
28	4.6	46.7	47.2	266.1	261.5	3	56	91.2	95.1	51.7	52.0	3.1	285		
		49.1	49.6	266.9	262.6	4	6	91.9	96.1	49.3	49.7				
		51.5	51.9	267.7	263.7	4	16	92.6	97.2	46.9	47.4				
50	3.7	38.7	38.5	275.8	269.5	4	11	82.1	87.4	43.6	43.1	5.3	1188		
		41.1	40.8	276.1	270.4	4	21	82.4	88.1	41.2	40.8				
		43.5	43.2	276.5	271.2	4	31	82.7	88.9	38.8	38.4				
28	4.6	52.7	53.1	268.0	264.2	4	21	88.5	91.7	57.4	57.4	3.8	312		
		55.1	55.4	268.7	265.3	4	31	89.1	92.6	55.0	55.1				
		57.6	57.8	269.4	266.2	4	41	89.7	93.5	52.6	52.8				

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		LAT 15	Z. D. LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	LAT 15	Z. D. LAT 20		
60	4.5	41.8	42.4	266.9	261.3	4	34	89.2	93.9	46.7	46.8	5.3	1201
		44.3	44.7	267.6	262.5	4	44	89.8	94.9	44.3	44.5		
		46.7	47.0	268.4	263.7	4	54	90.5	96.0	41.9	42.1		
1034	5.3	52.5	53.3	262.8	259.0	4	45	92.7	95.8	57.5	57.9	4.2	1223
		54.9	55.6	263.6	260.2	4	55	93.4	96.9	55.1	55.6		
		57.3	57.9	264.5	261.3	5	5	94.2	97.9	52.7	53.2		
56	4.7	49.5	50.1	264.2	260.0	4	58	93.7	97.2	54.4	54.9	4.2	1223
		51.9	52.5	265.0	261.2	5	8	94.4	98.3	52.0	52.5		
		54.3	54.8	265.8	262.3	5	18	95.2	99.4	49.6	50.2		
85	4.3	40.6	41.3	265.4	259.6	5	11	91.8	96.7	45.4	45.7	3.8	312
		43.0	43.6	266.2	260.9	5	21	92.5	97.8	43.0	43.4		
		45.4	45.9	267.0	262.1	5	31	93.3	99.0	40.5	41.1		
60	4.5	54.4	54.5	270.5	266.9	5	26	85.4	88.4	59.5	59.3	5.1	1246
		56.8	56.9	271.1	267.8	5	36	86.0	89.2	57.1	56.9		
		59.2	59.2	271.7	268.7	5	46	86.5	90.1	54.7	54.6		
98	4.4	43.2	43.5	268.7	263.5	5	40	87.3	91.8	48.0	48.0	4.3	337
		45.6	45.9	269.4	264.6	5	50	87.9	92.8	45.6	45.6		
		48.0	48.2	270.1	265.6	6	0	88.4	93.8	43.2	43.3		
85	4.3	50.7	51.0	268.6	264.5	5	53	88.1	91.5	55.5	55.5	3.8	365
		53.2	53.4	269.3	265.6	6	3	88.7	92.4	53.1	53.1		
		55.6	55.7	269.9	266.5	6	13	89.3	93.4	50.7	50.8		
1072	5.0	52.4	53.0	265.4	261.6	6	5	89.8	93.0	57.6	57.7	4.9	378
		54.9	55.3	266.1	262.7	6	15	90.4	93.9	55.2	55.4		
		57.3	57.7	266.9	263.7	6	25	91.1	94.9	52.8	53.0		
85	4.3	57.0	57.1	270.3	267.1	6	19	87.2	85.9	61.8	61.7	3.9	396
		59.4	59.5	271.0	268.0	6	29	87.8	90.8	59.4	59.4		
		61.8	61.8	271.6	268.9	6	39	88.4	91.7	57.0	57.0		
123	3.8	46.4	46.6	269.1	264.4	6	35	86.4	90.3	51.6	51.4	1.3	390
		48.8	49.0	269.8	265.4	6	45	86.9	91.2	49.2	49.1		
		51.2	51.3	270.4	266.4	6	55	87.4	92.1	46.7	46.7		
1118	4.3	37.8	38.5	265.1	258.8	6	47	91.5	97.0	42.5	42.8	3.8	365
		40.2	40.8	265.9	260.1	6	57	92.3	98.2	40.1	40.5		
		42.6	43.1	266.8	261.4	7	7	93.1	99.5	37.7	38.2		
1093	5.0	55.6	56.3	263.6	260.2	6	59	94.4	97.2	60.2	60.7	5.1	1284
		58.0	58.6	264.4	261.3	7	9	95.1	98.2	57.8	58.4		
		60.4	60.9	265.2	262.4	7	19	95.9	99.3	55.4	56.1		
125	4.3	53.3	53.1	275.1	271.3	7	10	80.7	83.8	58.4	57.8	3.4	423
		55.8	55.4	275.5	272.1	7	20	81.1	84.5	56.1	55.4		
		58.2	57.8	276.0	272.9	7	30	81.5	85.2	53.7	53.1		
1118	4.3	45.7	46.1	267.8	262.9	7	20	88.4	92.4	50.8	50.9	5.3	409
		48.1	48.5	268.5	264.0	7	30	89.0	93.4	48.4	48.5		
		50.6	51.8	269.2	265.1	7	40	89.6	94.4	46.0	46.2		
151	3.9	52.0	52.6	265.8	261.9	7	31	92.5	95.7	56.8	57.2	4.1	427
		54.4	54.9	266.6	263.0	7	41	93.2	96.7	54.4	54.9		
		56.9	57.2	267.3	264.1	7	51	93.9	97.8	52.0	52.5		
150	4.3	54.2	53.9	274.7	271.1	7	43	81.7	84.7	59.0	58.4	2.2	444
		56.6	56.3	275.2	271.9	7	53	82.1	85.4	56.6	56.1		
		59.0	58.6	275.7	272.7	8	3	82.5	86.1	54.2	53.7		
179	3.8	46.3	47.1	263.3	258.6	7	55	94.3	98.2	51.1	51.6	4.1	427
		48.7	49.4	264.2	259.9	8	5	95.1	99.4	48.7	49.3		
		51.1	51.8	265.0	261.1	8	15	95.9	100.6	46.3	47.0		
179	3.8	49.2	49.9	264.4	260.1	8	7	92.7	96.3	54.0	54.4	4.2	1302
		51.6	52.2	265.2	261.3	8	17	93.4	97.3	51.6	52.1		
		54.0	54.5	266.0	262.4	8	27	94.2	98.5	49.2	49.7		
1140	4.7	47.1	46.7	277.2	272.6	8	19	81.5	85.5	51.8	51.3	5.5	1308
		49.5	49.0	277.6	273.3	8	29	81.9	86.2	49.4	48.9		
		51.9	51.3	278.0	274.0	8	39	82.3	86.9	47.1	46.6		
201	1.7	47.1	47.8	264.7	260.1	8	33	90.4	94.3	51.9	52.1	4.2	450
		49.5	50.1	265.5	261.3	8	43	91.1	95.4	49.5	49.8		
		51.9	52.4	266.3	262.4	8	53	91.8	96.4	47.1	47.4		
1142	5.4	52.8	52.9	271.0	267.2	8	44	87.1	90.2	57.8	57.7	5.0	1326
		55.2	55.2	271.6	268.2	8	54	87.7	91.1	55.4	55.3		
		57.6	57.6	272.2	269.1	9	4	88.2	92.0	53.0	53.0		
1142	5.4	55.2	55.2	271.6	268.2	8	54	85.7	88.6	60.2	59.9	3.0	488
		57.6	57.6	272.2	269.1	9	4	86.2	89.4	57.7	57.6		
		60.1	59.9	272.8	269.9	9	14	86.8	90.2	55.3	55.2		
208	4.5	52.3	52.4	270.5	266.6	9	7	86.4	89.6	57.0	56.8	3.0	488
		54.7	54.8	271.1	267.6	9	17	86.9	90.5	54.6	54.5		
		57.1	57.1	271.7	268.5	9	27	87.5	91.4	52.2	52.1		

CATNO	MAG	WEST STAR		AZ		LST		A2		EAST STAR		MAG	CATNO
		LAT 15	Z. D. LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	LAT 15	Z. D. LAT 20		
1174	4.5	43.1	43.8	264.7	259.4	9	25	89.5	94.0	47.9	48.1	5.0	1326
		45.5	46.1	265.5	260.7	9	35	90.2	95.0	45.5	45.7		
		47.9	48.4	266.4	261.9	9	45	90.8	96.1	43.1	43.4		
232	4.4	52.7	52.2	277.3	273.5	9	45	78.5	81.6	57.7	56.9	4.5	507
		55.1	54.5	277.7	274.2	9	55	78.8	82.3	55.4	54.5		
		57.5	56.9	278.2	275.0	10	5	79.1	82.9	53.0	52.2		
256	3.4	46.3	46.1	273.7	268.9	9	55	84.0	88.1	51.3	51.0	5.2	1349
		48.7	48.5	274.2	269.7	10	5	84.5	88.9	48.9	46.6		
		51.1	50.8	274.7	270.6	10	15	84.9	89.7	46.5	46.3		
1169	5.1	56.0	55.7	274.9	271.5	10	6	83.1	85.9	61.0	60.5	5.3	1372
		58.4	58.0	275.4	272.3	10	16	83.6	86.7	58.6	56.2		
		60.8	60.4	275.9	273.1	10	26	84.1	87.5	56.2	55.8		
256	3.4	52.5	52.3	274.9	271.1	10	21	83.9	87.1	57.4	57.0	5.3	1372
		54.9	54.6	275.4	271.9	10	31	84.3	87.8	55.0	54.7		
		57.3	57.0	275.9	272.7	10	41	84.8	88.6	52.6	52.3		
1193	4.9	47.2	47.2	272.7	268.0	10	43	84.9	88.8	52.1	51.9	5.3	1372
		49.6	49.6	273.2	268.9	10	53	85.4	89.6	49.7	45.5		
		52.1	51.9	273.7	269.8	11	3	85.9	90.5	47.3	47.2		
1223	4.2	50.5	51.1	265.1	261.0	11	59	92.4	95.8	55.6	56.0	2.8	582
		52.9	53.4	265.9	262.1	12	9	93.1	96.8	53.2	53.6		
		55.3	55.8	266.6	263.2	12	19	93.9	97.9	50.8	51.3		
334	3.3	48.6	49.2	264.7	260.4	12	9	93.1	96.8	53.2	55.6	2.8	582
		51.0	51.5	265.6	261.6	12	19	93.9	97.9	50.8	51.3		
		53.4	53.9	266.3	262.7	12	29	94.7	99.1	48.4	49.0		
337	4.3	51.7	51.5	273.5	269.5	12	30	82.8	86.1	56.6	56.1	4.5	613
		54.1	53.9	274.0	270.4	12	40	83.3	86.9	54.2	53.8		
		56.5	56.2	274.6	271.2	12	50	83.7	87.7	51.8	51.4		
1246	5.1	47.5	47.6	271.8	267.3	12	46	83.5	87.4	52.7	52.3	4.5	613
		50.0	49.9	272.4	268.2	12	56	84.0	88.1	50.3	50.0		
		52.4	52.3	273.0	269.1	13	6	84.4	88.9	47.9	47.6		
379	3.6	41.0	40.5	278.6	272.9	12	57	80.6	85.5	45.6	45.0	5.3	1421
		43.4	42.9	278.8	273.5	13	7	80.9	86.2	43.2	42.7		
		45.8	45.2	279.1	274.2	13	17	81.1	86.9	40.9	40.3		
1246	5.1	52.6	52.5	273.0	269.2	13	7	84.2	87.4	57.5	57.1	4.9	635
		55.0	54.9	273.6	270.0	13	17	84.7	88.2	55.1	54.8		
		57.4	57.2	274.1	270.9	13	27	85.2	89.0	52.7	52.4		
1246	5.1	56.2	56.0	273.8	270.5	13	22	83.7	86.5	61.0	60.6	2.1	656
		58.6	58.4	274.4	271.3	13	32	84.2	87.3	58.6	58.3		
		61.0	60.7	274.9	272.1	13	42	84.7	88.1	56.2	55.9		
356	3.9	44.3	44.7	268.2	263.1	13	32	89.4	93.7	49.2	49.3	4.3	1442
		46.7	47.0	268.9	264.2	13	42	90.0	94.7	46.8	47.0		
		49.2	49.4	269.5	265.2	13	52	90.7	95.8	44.4	44.6		
378	4.9	57.3	57.4	270.1	266.9	13	52	87.0	89.6	62.2	62.0	3.7	680
		59.7	59.8	270.8	267.8	14	2	87.5	90.5	59.8	59.7		
		62.1	62.1	271.4	268.7	14	12	88.1	91.3	57.4	57.3		
356	3.9	53.3	53.4	270.6	266.9	14	9	89.0	91.1	58.1	56.0	3.7	680
		55.7	55.7	271.3	267.8	14	19	89.6	92.0	55.7	55.7		
		58.1	58.1	271.9	268.7	14	29	89.2	92.9	53.3	53.4		
423	3.4	46.4	46.0	277.3	272.6	14	26	80.4	84.4	51.1	50.5	4.7	1469
		48.8	48.3	277.7	273.3	14	36	80.7	85.1	48.8	48.1		
		51.2	50.7	278.1	274.0	14	46	81.0	85.8	46.4	45.8		
419	4.7	53.1	53.5	268.1	264.4	14	39	88.5	91.7	58.0	58.0	5.4	1484
		55.6	55.8	268.8	265.4	14	49	89.1	92.6	55.6	55.6		
		58.0	58.2	269.5	266.3	14	59	89.8	93.5	53.1	53.3		
450	4.2	42.2	42.7	266.6	261.2	14	55	90.9	95.5	47.0	47.3	3.7	680
		44.6	45.0	267.4	262.4	15	5	91.5	96.6	44.6	44.9		
		47.0	47.4	268.2	263.5	15	15	92.3	97.7	42.2	42.6		
444	2.2	49.4	49.0	276.7	272.4	15	13	82.0	85.7	54.3	53.8	4.2	712
		51.8	51.4	277.1	273.1	15	23	82.4	86.4	51.9	51.5		
		54.2	53.7	277.5	273.9	15	33	82.8	87.1	49.6	49.1		
445	3.8	54.9	55.8	261.6	258.2	15	26	95.2	98.1	59.9	60.5	3.4	730
		57.3	58.1	262.4	259.3	15	36	96.0	99.1	57.5	56.1		
		59.7	60.4	263.3	260.4	15	46	96.9	100.3	55.1	55.8		
1311	4.6	53.6	54.0	267.3	263.7	15	36	90.5	93.6	58.5	56.7	4.7	1511
		56.0	56.3	268.0	264.7	15	46	91.2	94.5	56.1	56.3		
		58.4	58.7	268.7	265.7	15	56	91.9	95.5	53.7	54.0		
1326	5.0	45.8	46.0	269.9	265.1	15	48	87.2	91.3	50.8	50.8	5.1	725
		48.2	48.4	270.6	266.1	15	58	87.7	92.2	48.4	48.4		
		50.6	50.7	271.2	267.1	16	8	88.3	93.1	46.0	46.1		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT 15	LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20	LAT 15	LAT 20		
488	3.0	43.4	43.6	270.3	265.1	15	59	87.8	92.3	48.2	46.2	5.1	725
		45.8	46.0	271.0	266.1	16	9	88.4	93.2	45.8	45.8		
		48.2	48.3	271.6	267.1	16	19	88.9	94.2	43.3	43.5		
484	3.7	50.2	51.0	261.9	257.8	16	13	92.8	96.2	54.9	55.3	3.9	749
		52.6	53.3	262.8	259.1	16	23	93.5	97.3	52.5	53.0		
		54.9	55.7	263.6	260.2	16	33	94.3	98.4	50.1	50.7		
1344	5.3	47.2	47.9	263.6	259.1	16	25	93.7	97.5	52.0	52.5	3.9	745
		49.6	50.3	264.5	260.3	16	35	94.4	98.6	49.6	50.2		
		52.0	52.6	265.3	261.5	16	45	95.3	99.8	47.2	47.9		
488	3.0	52.6	52.5	272.6	268.8	16	37	86.1	89.4	57.2	57.1	4.0	768
		55.0	54.9	273.2	269.6	16	47	86.7	90.2	54.8	54.7		
		57.4	57.2	273.7	270.5	16	57	87.2	91.1	52.4	52.4		
1349	5.2	49.4	49.1	275.6	271.3	16	52	81.0	84.6	54.5	53.8	3.9	774
		51.8	51.5	276.0	272.1	17	2	81.4	85.3	52.1	51.5		
		54.2	53.8	276.5	272.9	17	12	81.8	86.0	49.7	49.2		
1372	5.3	40.4	40.4	272.7	266.8	17	5	83.4	88.3	45.4	45.0	5.0	1526
		42.8	42.8	273.2	267.8	17	15	83.7	89.1	43.0	42.7		
		45.2	45.1	273.7	268.7	17	25	84.1	90.0	40.6	40.3		
1372	5.3	43.3	43.3	273.3	269.0	17	17	81.9	86.4	48.5	46.0	3.9	774
		45.7	45.6	273.8	268.9	17	27	82.3	87.1	46.1	45.6		
		48.1	47.9	274.3	263.9	17	37	82.6	87.9	43.7	43.3		
1375	5.1	55.4	55.8	266.9	263.4	18	6	91.5	94.4	60.3	60.5	3.7	834
		57.8	58.1	267.5	264.4	18	16	92.2	95.3	57.8	57.2		
		60.2	60.5	268.2	265.4	18	26	92.9	96.3	55.4	55.8		
562	5.4	49.4	50.1	263.6	259.4	18	31	93.3	96.9	54.2	54.7	3.7	834
		51.9	52.4	264.5	260.6	18	41	94.1	97.9	51.9	52.3		
		54.2	54.7	265.3	261.7	18	51	94.9	99.1	49.4	50.0		
582	2.9	52.1	52.6	266.5	262.7	19	13	88.5	91.8	57.1	57.1	4.7	1603
		54.5	54.9	267.3	263.7	19	23	89.1	92.7	54.7	54.7		
		56.9	57.2	268.0	264.8	19	33	89.8	93.6	52.3	52.4		
1442	4.3	37.6	38.1	267.3	260.9	19	26	88.4	93.8	42.5	42.5	4.9	843
		40.0	40.4	268.0	262.1	19	36	88.9	94.9	40.0	40.2		
		42.4	42.7	268.8	263.3	19	46	89.5	96.0	37.6	37.9		
1442	4.3	40.7	40.4	268.0	262.1	19	36	89.7	94.7	45.1	45.3	3.6	855
		42.4	42.7	268.8	263.3	19	46	90.4	95.8	42.7	42.9		
		44.8	45.1	269.4	264.4	19	56	91.0	96.9	40.3	40.6		
633	4.5	39.7	40.3	266.7	260.9	19	38	89.8	94.9	44.6	44.8	3.6	855
		42.2	42.6	267.5	262.0	19	48	90.5	96.0	42.2	42.5		
		44.6	44.9	268.2	263.2	19	58	91.2	97.1	39.8	40.1		
635	4.9	40.9	41.0	272.3	266.5	19	53	83.3	88.2	46.0	45.6	2.6	871
		43.3	43.3	272.8	267.5	20	3	83.7	89.0	43.6	43.2		
		45.7	45.7	273.3	268.5	20	13	84.1	89.8	41.2	40.9		
613	4.5	53.9	53.6	276.7	273.0	20	8	81.2	84.3	58.8	58.1	2.9	7
		56.3	55.9	277.1	273.8	20	18	81.7	85.0	56.4	55.9		
		58.7	58.2	277.6	274.5	20	28	82.1	85.7	54.0	53.4		
656	2.1	40.6	40.6	271.9	266.1	20	21	86.9	91.8	45.4	45.4	4.7	885
		43.0	43.0	272.5	267.1	20	31	87.4	92.8	43.0	43.0		
		45.4	45.3	273.0	268.1	20	41	88.0	93.8	40.6	40.7		
656	2.1	45.6	45.6	273.0	268.1	20	42	82.6	86.7	50.6	50.2	2.9	7
		48.0	47.9	273.6	269.1	20	52	83.0	87.5	48.2	47.8		
		50.4	50.3	274.1	269.9	21	2	83.4	88.3	45.8	45.5		
665	2.9	50.4	51.1	263.4	259.4	21	3	91.2	94.6	55.5	55.7	4.6	28
		52.8	53.4	264.3	260.5	21	13	91.9	95.6	53.0	53.4		
		55.2	55.7	265.1	261.7	21	23	92.6	96.7	50.6	51.0		
656	2.1	55.0	54.7	275.0	271.5	21	21	80.8	83.7	60.0	59.3	3.7	50
		57.4	57.1	275.5	272.3	21	31	81.2	84.4	57.6	57.0		
		59.8	59.4	276.0	273.1	21	41	81.6	85.1	55.2	54.6		
665	2.9	57.1	57.6	265.7	262.5	21	31	91.9	94.5	61.9	62.2	4.7	56
		59.5	59.9	266.4	263.5	21	41	92.6	95.5	59.5	59.9		
		61.9	62.3	267.2	264.5	21	51	93.3	96.5	57.1	57.5		
1476	4.9	52.8	53.6	262.7	259.0	21	49	93.2	96.3	57.6	56.0	4.7	56
		55.2	55.9	263.5	260.1	21	59	93.9	97.3	55.2	55.7		
		57.6	58.2	264.4	261.2	22	9	94.7	98.4	52.8	53.3		
716	3.0	44.1	44.0	274.5	269.4	22	7	82.7	87.0	49.0	48.5	3.7	50
		46.5	46.3	275.0	270.2	22	17	83.0	87.8	46.6	46.2		
		48.9	48.7	275.4	271.1	22	27	83.4	88.6	44.2	43.8		
1511	4.7	43.5	44.2	264.8	259.7	22	28	91.2	95.6	48.3	48.6	4.5	60
		45.9	46.5	265.7	260.9	22	38	91.9	96.7	45.9	46.2		
		48.3	48.8	266.5	262.1	22	48	92.6	97.8	43.5	43.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO		
		Z. D.		LAT 15	LAT 20	LAT 15	LAT 20	HRS	MIN	LAT 15	LAT 20			Z. D.	
		LAT 15	LAT 20											LAT 15	LAT 20
749	3.9	41.1	42.0	262.3	256.8	22	38	91.9	96.7	45.9	46.2	4.5	60		
		43.5	44.3	263.3	258.2	22	48	92.6	97.8	43.5	43.9				
		45.9	46.6	264.2	259.5	22	58	93.4	99.1	41.0	41.6				
1511	4.7	48.6	49.0	266.5	262.2	22	49	90.6	94.2	53.7	53.9	4.3	85		
		51.0	51.4	267.3	263.3	22	59	91.2	95.2	51.3	51.5				
		53.4	53.7	268.0	264.3	23	9	91.9	96.3	48.9	45.2				
730	3.4	54.9	55.6	263.1	259.6	23	2	94.1	97.0	59.8	60.3	2.8	107		
		57.3	57.9	263.9	260.7	23	12	94.9	98.0	57.4	58.0				
		59.7	60.2	264.7	261.8	23	22	95.7	99.1	55.0	55.7				
749	3.9	49.9	50.5	265.7	261.5	23	15	89.7	93.2	54.9	55.0	4.7	1083		
		52.4	52.8	266.4	262.6	23	25	90.3	94.1	52.5	52.7				
		54.8	55.2	267.2	263.7	23	35	91.0	95.1	50.1	50.4				
741	2.8	53.9	53.8	272.3	268.6	23	26	83.8	86.8	59.0	58.6	4.3	125		
		56.3	56.2	272.8	269.5	23	36	84.3	87.6	56.6	56.2				
		58.7	58.5	273.4	270.3	23	46	84.8	88.4	54.2	53.9				

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 20	LAT 25	LAT 20	LAT 25	HRS	MIN	LAT 20	LAT 25		
772	5.2	47.7	48.3	265.4	260.9	23	52	88.9	92.7	52.5	52.6	4.3	125
		50.0	50.5	266.4	262.2	0	2	89.7	93.9	50.1	50.3		
		52.4	52.8	267.3	263.5	0	12	90.6	95.1	47.8	48.0		
1531	5.4	55.3	56.1	262.4	259.0	0	2	94.8	97.7	59.8	60.4	3.9	151
		57.7	58.4	263.4	260.3	0	12	95.8	98.9	57.5	58.1		
		60.0	60.6	264.4	261.6	0	22	96.8	100.2	55.2	55.9		
1526	5.0	57.0	56.7	275.5	272.2	0	13	81.5	84.2	61.9	61.2	1.1	168
		59.4	59.0	276.2	273.2	0	23	82.2	85.1	59.5	58.0		
		61.7	61.2	276.9	274.2	0	33	82.9	86.1	57.2	56.7		
1541	4.5	51.6	51.3	275.0	271.0	0	23	81.9	85.2	56.3	55.7	3.9	162
		53.9	53.6	275.7	272.0	0	33	82.5	86.1	54.0	53.5		
		56.3	55.9	276.4	273.0	0	43	83.1	87.1	51.6	51.2		
815	2.5	43.5	44.4	263.1	258.0	0	35	90.9	95.3	48.6	48.8	4.0	150
		45.9	46.6	264.2	259.5	0	49	91.8	96.6	46.2	46.6		
		48.2	48.8	265.3	260.9	0	59	92.7	97.9	43.9	44.3		
800	4.1	50.3	55.2	261.7	259.3	0	50	93.9	96.8	59.2	55.7	3.2	1130
		56.6	57.4	262.9	259.6	1	0	94.8	98.1	56.9	57.4		
		59.0	59.6	263.8	260.9	1	10	95.8	99.3	54.5	55.2		
800	4.1	54.8	55.6	262.0	258.5	0	52	95.4	98.3	59.5	60.1	3.8	179
		57.1	57.8	263.0	259.9	1	2	96.4	99.6	57.2	57.9		
		59.4	60.1	264.0	261.1	1	12	97.5	100.9	54.8	55.6		
843	4.9	39.0	39.8	264.6	258.5	1	0	92.8	98.0	43.6	44.1	4.0	150
		41.4	42.1	265.7	260.1	1	10	93.9	99.5	41.3	41.9		
		43.7	44.2	266.7	261.5	1	20	94.9	101.0	38.9	39.6		
843	4.3	42.5	43.1	266.2	260.8	1	15	89.0	92.7	47.3	47.1	4.8	1125
		44.9	45.3	267.2	262.2	1	25	88.8	93.8	44.9	45.1		
		47.2	47.6	268.1	263.5	1	35	89.7	95.1	42.6	42.9		
843	4.9	44.9	45.3	267.2	262.2	1	25	88.1	92.4	49.5	45.5	5.2	1136
		47.2	47.6	268.1	263.5	1	35	88.9	93.6	47.1	47.2		
		49.6	49.8	269.0	264.8	1	45	89.8	94.8	44.8	45.0		
824	3.7	55.5	56.2	263.5	261.2	1	51	92.9	95.8	60.1	60.4	0.6	224
		57.9	58.5	264.5	261.5	2	1	93.9	97.0	57.7	58.2		
		60.2	60.7	265.5	262.7	2	11	94.9	98.3	55.4	55.9		
843	4.9	53.6	57.7	270.5	266.8	2	2	84.6	87.7	58.2	57.9	4.4	232
		55.9	55.9	271.3	267.9	2	12	85.3	88.7	55.9	55.6		
		58.3	58.2	272.1	269.0	2	22	86.1	89.8	53.6	53.4		
855	3.6	50.3	53.1	268.4	264.6	2	17	87.0	91.1	57.5	57.4	5.1	1169
		55.1	55.4	269.3	265.8	2	27	88.7	92.2	55.1	55.2		
		57.5	57.6	270.2	267.0	2	37	89.6	93.3	52.8	52.9		
1633	4.7	45.8	50.4	265.3	261.1	2	28	88.8	92.3	54.9	54.6	5.1	1165
		52.2	52.7	266.3	262.4	2	38	89.6	93.5	52.5	52.7		
		54.5	54.9	267.2	263.7	2	48	90.5	94.6	50.2	50.4		
871	2.6	51.3	51.2	273.7	269.6	2	39	83.2	86.6	56.2	55.8	1.9	251
		53.7	53.5	274.4	270.7	2	49	83.9	87.5	53.9	53.5		
		56.0	55.7	275.1	271.7	2	59	84.5	88.5	51.6	51.3		
885	4.7	50.2	50.4	270.0	265.9	2	56	89.0	91.5	54.9	54.9	3.4	266
		52.6	52.7	270.9	267.0	3	6	88.8	92.6	52.6	52.6		
		54.9	54.9	271.7	268.2	3	16	89.6	93.8	50.2	50.4		
1625	5.4	47.6	48.1	266.5	262.1	3	6	88.9	92.6	52.6	52.6	3.4	256
		49.9	50.3	267.4	263.3	3	16	89.6	93.8	50.2	50.4		
		52.3	52.6	268.4	264.5	3	26	90.5	95.0	47.9	48.1		
898	5.2	48.0	47.5	278.0	273.5	3	16	78.8	82.6	52.9	52.1	3.9	265
		50.3	49.8	278.5	274.4	3	26	79.3	83.4	50.6	49.9		
		52.7	52.0	279.1	275.3	3	36	79.8	84.3	48.3	47.6		
7	2.3	48.2	48.2	272.6	268.1	3	34	84.0	87.8	52.8	52.4	3.7	277
		50.5	50.4	273.4	269.2	3	44	84.6	88.8	50.5	50.2		
		52.9	52.7	274.1	270.3	3	54	85.3	89.8	48.1	47.9		
1020	5.2	46.7	46.5	274.6	269.9	4	5	81.7	85.7	51.7	51.1	5.0	1200
		49.0	48.8	275.3	270.9	4	15	82.3	86.6	49.4	48.9		
		51.4	51.0	275.0	271.9	4	25	82.9	87.6	47.0	46.6		
28	4.6	52.8	53.5	264.1	260.4	4	20	91.6	94.7	57.7	56.0	3.8	312
		55.2	55.7	265.2	261.7	4	30	92.5	95.9	55.3	55.7		
		57.5	58.0	266.1	263.0	4	40	93.5	97.2	53.0	53.5		
1020	5.2	53.7	53.3	276.6	272.9	4	35	80.4	83.5	58.4	57.7	4.2	326
		56.0	55.6	277.3	273.9	4	45	81.0	84.4	56.1	55.4		
		58.4	57.8	277.9	274.8	4	55	81.6	85.3	53.8	53.2		
50	3.7	48.8	48.7	273.1	268.7	4	55	81.6	85.3	53.8	53.2	4.2	326
		51.1	51.0	273.8	269.7	5	5	82.2	86.2	51.4	50.9		
		53.5	53.3	274.5	270.8	5	15	82.8	87.2	49.1	48.7		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT 20	LAT 25	LAT 20	LAT 25	HRS	MIN	LAT 20	LAT 25	LAT 20	LAT 25		
60	4.5	50.5	51.1	265.3	261.2	5	9	89.1	92.6	55.2	55.3	4.3	337
		52.9	53.4	266.2	262.5	5	19	90.0	93.7	52.9	53.1		
		55.2	55.6	267.2	263.8	5	29	90.8	94.9	50.5	50.8		
60	4.5	54.5	54.9	266.9	263.4	5	26	88.4	91.4	59.3	59.3	5.1	1246
		56.9	57.2	267.8	264.6	5	36	89.2	92.5	56.9	57.0		
		59.2	59.4	268.7	265.8	5	46	90.1	93.6	54.6	54.7		
98	4.4	43.3	44.1	263.3	258.2	5	39	91.7	96.2	48.2	48.5	4.3	337
		45.7	46.3	264.5	259.7	5	49	92.7	97.5	45.8	46.3		
		48.0	48.6	265.5	261.1	5	59	93.7	98.9	43.5	44.0		
85	4.3	50.8	51.5	264.4	260.4	5	52	91.4	94.8	55.7	56.0	3.8	365
		53.1	53.7	265.5	261.8	6	2	92.3	96.0	53.4	53.7		
		55.5	55.9	266.4	263.0	6	12	93.3	97.3	51.0	51.5		
1083	4.7	45.9	46.7	262.8	258.1	6	3	91.6	95.6	50.6	50.9	5.1	1246
		48.2	48.9	263.9	259.5	6	13	92.5	96.9	48.2	48.6		
		50.5	51.1	264.9	260.9	6	23	93.5	98.2	45.9	46.4		
85	4.3	57.1	57.5	267.1	263.9	6	15	89.9	92.6	61.7	61.8	3.0	396
		59.5	59.8	268.0	265.1	6	29	90.8	93.7	59.4	59.5		
		61.8	62.0	268.9	266.2	6	39	91.7	94.9	57.0	57.3		
123	3.8	46.6	47.3	264.4	259.8	6	35	90.3	94.3	51.4	51.6	1.3	380
		49.0	49.6	265.4	261.1	6	45	91.2	95.5	49.1	49.4		
		51.3	51.8	266.4	262.5	6	55	92.1	96.8	46.7	47.1		
121	3.8	50.2	50.8	265.0	260.9	6	47	92.4	95.8	55.1	55.5	3.0	396
		52.6	53.1	266.0	262.2	6	57	93.3	97.1	52.8	53.2		
		54.9	55.3	267.0	263.5	7	7	94.3	98.4	50.4	51.0		
159	3.9	39.0	39.3	270.3	264.1	7	2	86.2	91.5	43.7	43.6	3.6	379
		41.4	41.5	271.1	265.4	7	12	86.9	92.6	41.3	41.3		
		43.7	43.8	271.9	266.7	7	22	87.7	93.8	39.0	39.1		
1104	5.4	52.4	53.3	262.0	258.2	7	13	94.0	97.2	57.2	57.7	4.7	418
		54.8	55.5	263.0	259.6	7	23	95.0	98.5	54.9	55.5		
		57.1	57.7	264.1	260.9	7	33	96.0	99.8	52.5	53.2		
125	4.3	57.3	57.2	272.7	269.5	7	28	83.6	86.3	61.9	61.5	2.2	444
		59.6	59.5	273.5	270.6	7	38	84.3	87.3	59.6	59.2		
		62.0	61.7	274.3	271.6	7	48	85.0	88.3	57.2	57.0		
164	3.6	45.2	44.8	277.5	272.5	7	40	79.4	83.7	49.7	49.0	2.6	422
		47.5	47.0	278.0	273.4	7	50	79.9	84.5	47.4	46.7		
		49.9	49.3	278.6	274.4	8	0	80.4	85.4	45.1	44.5		
151	3.9	57.2	57.0	264.1	260.9	7	51	90.5	93.1	62.0	62.1	4.2	459
		59.6	60.1	265.1	262.2	8	1	91.4	94.3	59.6	59.9		
		61.9	62.4	266.0	263.4	8	11	92.3	95.4	57.3	57.6		
1125	4.3	50.2	50.2	272.0	268.7	8	3	84.4	87.9	55.0	54.7	5.5	1308
		52.6	52.4	273.7	269.8	8	13	85.1	88.9	52.7	52.4		
		54.9	54.7	274.4	270.9	8	23	85.8	89.9	50.3	50.2		
1134	3.3	51.6	52.4	262.8	259.0	8	15	92.6	95.9	56.3	56.7	4.2	450
		53.9	54.6	263.9	260.3	8	25	93.6	97.2	54.0	54.5		
		56.3	56.9	264.9	261.6	8	35	94.5	98.4	51.7	52.2		
1148	5.3	42.2	42.1	275.0	269.5	8	25	83.4	85.0	47.2	46.6	4.5	1304
		44.6	44.3	275.6	270.5	8	35	83.9	85.9	44.9	44.3		
		46.9	46.6	276.2	271.5	8	45	84.4	86.8	42.6	42.0		
218	5.5	39.9	39.9	274.0	263.0	8	35	80.9	85.9	44.9	44.3	4.5	1304
		42.2	42.1	274.6	269.1	8	45	81.4	86.8	42.6	42.0		
		44.6	44.3	275.3	270.2	8	55	81.8	87.8	40.2	39.8		
1169	5.1	37.8	38.6	264.3	258.0	9	50	89.8	95.2	42.7	42.9	2.2	444
		40.2	40.8	265.4	259.6	9	0	90.7	96.5	40.3	40.7		
		42.5	43.1	266.4	261.1	9	10	91.6	97.9	38.0	38.4		
208	4.5	52.2	52.6	266.5	262.7	9	6	89.6	92.8	57.1	57.2	3.0	468
		54.5	54.9	267.5	263.9	9	16	90.4	93.9	54.7	54.9		
		56.9	57.2	268.4	265.1	9	26	91.3	95.1	52.4	52.7		
251	1.9	39.8	39.9	271.9	265.9	9	24	83.6	88.6	44.8	44.4	5.2	473
		42.2	42.2	272.6	267.1	9	34	84.2	89.6	42.4	42.1		
		44.5	44.4	273.4	268.3	9	44	84.7	90.7	40.1	39.9		
232	4.4	52.2	52.1	273.5	269.6	9	45	81.6	84.9	56.9	56.3	4.5	507
		54.5	54.3	274.2	270.7	9	55	82.3	85.8	54.5	54.0		
		56.9	56.6	275.0	271.7	10	5	82.9	86.8	52.2	51.8		
256	3.4	46.1	46.5	268.9	264.1	9	55	88.1	92.1	51.0	51.0	5.2	1349
		48.5	48.7	269.7	265.3	10	5	88.9	93.3	48.6	48.7		
		50.8	51.0	270.6	266.5	10	15	89.7	94.5	46.3	46.5		
1169	5.1	55.7	55.7	271.5	268.1	10	6	85.9	88.7	60.5	60.3	5.3	1372
		58.0	58.0	272.3	269.1	10	16	86.7	89.8	58.2	58.0		
		60.4	60.2	273.1	270.2	10	26	87.5	90.9	55.8	55.8		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 20	LAT 25	LAT 20	LAT 25	HRS	MIN	LAT 20	LAT 25		
277	3.7	44.4	44.3	273.6	268.5	10	24	82.4	86.7	49.3	48.8	2.8	513
		46.7	46.6	274.3	269.5	10	34	83.0	87.7	47.0	46.6		
		49.1	48.8	275.0	270.6	10	44	83.6	88.7	44.7	44.3		
277	3.7	46.7	46.6	274.3	269.5	10	34	80.8	84.7	51.7	51.1	0.2	526
		49.1	48.8	275.0	270.6	10	44	81.3	85.6	49.4	48.8		
		51.4	51.1	275.6	271.6	10	54	81.9	86.5	47.1	46.6		
1201	5.3	45.3	45.9	265.5	260.6	10	50	89.4	93.5	50.2	50.3	5.3	1372
		47.7	48.2	266.5	262.0	11	0	90.2	94.7	47.9	48.1		
		50.0	50.4	267.4	263.3	11	10	91.1	96.0	45.5	45.8		
326	4.2	51.4	50.9	277.8	273.8	12	22	79.8	83.2	56.0	55.7	3.8	609
		53.7	53.2	278.4	274.7	12	32	80.4	84.1	53.7	53.0		
		56.0	55.4	279.0	275.6	12	42	81.0	85.0	51.4	50.7		
379	3.6	37.9	38.0	272.0	265.6	12	46	84.5	89.9	42.9	42.6	4.3	584
		40.3	40.3	272.7	266.8	12	56	85.1	90.9	40.5	40.4		
		42.6	42.6	273.5	268.0	13	6	85.7	92.1	38.2	38.1		
379	3.6	40.5	40.5	272.8	267.1	12	57	85.5	90.5	45.0	44.8	5.3	1421
		42.9	42.8	273.5	268.1	13	7	86.2	91.6	42.7	42.6		
		45.2	45.1	274.2	269.2	13	17	86.9	92.8	40.7	40.7		
1246	5.1	52.5	52.8	269.2	265.4	13	7	87.4	90.7	57.1	57.1	4.9	635
		54.9	55.0	270.0	266.5	13	17	88.2	91.8	54.8	54.8		
		57.2	57.3	270.9	267.7	13	27	89.0	92.9	52.4	52.5		
379	4.9	49.2	50.0	263.4	259.2	13	17	92.9	96.5	53.9	54.4	4.5	633
		51.6	52.2	264.5	260.6	13	27	93.8	97.7	51.6	52.1		
		53.9	54.5	265.5	261.9	13	37	94.8	99.1	49.3	49.9		
396	3.9	44.7	45.5	263.1	259.2	13	32	93.7	97.9	49.3	48.8	4.3	1442
		47.0	47.7	264.2	259.6	13	42	94.7	99.7	47.0	47.6		
		49.4	50.0	265.2	261.0	13	52	95.8	100.7	44.6	45.4		
409	5.3	43.5	44.2	264.4	259.2	13	45	90.6	95.0	48.2	48.5	4.9	635
		45.8	46.5	265.5	260.7	13	55	91.5	96.3	45.9	46.2		
		48.2	48.7	266.5	262.1	14	5	92.4	97.6	43.5	44.0		
396	3.9	53.4	53.8	266.9	263.2	14	9	91.1	94.2	58.0	58.3	3.7	660
		55.7	56.0	267.8	264.5	14	19	92.0	95.4	55.7	56.0		
		58.1	58.3	268.7	265.6	14	29	92.9	96.6	53.4	53.8		
423	3.4	45.7	45.7	272.5	267.6	14	25	84.3	88.5	50.7	50.4	4.7	1469
		48.1	48.0	273.2	268.7	14	35	85.0	89.5	48.4	48.1		
		50.4	50.3	274.0	269.9	14	45	85.7	90.5	46.0	45.9		
413	4.7	53.2	53.9	264.3	261.5	14	38	91.6	94.7	58.2	58.5	5.4	1484
		55.6	56.1	265.3	261.9	14	48	92.5	95.8	55.9	56.2		
		57.9	58.4	266.2	263.2	14	58	93.4	97.1	53.5	54.0		
423	3.4	51.1	50.9	274.2	270.1	14	48	81.1	84.5	56.0	55.4	4.4	1491
		53.5	53.2	274.9	271.2	14	58	81.7	85.4	53.7	53.1		
		55.9	55.5	275.6	272.2	15	8	82.3	86.3	51.3	50.9		
444	2.2	49.0	49.0	272.4	269.1	15	13	85.7	89.3	53.8	53.6	4.2	712
		51.4	51.3	273.1	269.1	15	23	86.4	90.4	51.5	51.3		
		53.7	53.5	273.9	270.2	15	33	87.1	91.5	49.1	48.1		
1302	4.2	55.6	56.3	264.3	260.9	15	28	92.8	95.6	60.6	60.9	4.7	1511
		58.1	58.5	265.3	262.2	15	38	93.8	96.8	58.2	58.7		
		60.3	60.8	266.2	263.4	15	48	94.7	98.1	55.9	56.4		
1339	5.5	53.3	53.0	275.1	271.4	15	39	80.2	83.3	58.1	57.4	3.8	743
		55.7	55.3	275.8	272.4	15	49	80.8	84.2	55.8	55.1		
		58.0	57.6	276.5	273.4	15	59	81.4	85.1	53.5	52.9		
489	3.7	41.7	42.5	264.2	258.7	15	51	89.7	94.4	46.5	46.7	3.0	716
		44.1	44.7	265.3	260.2	16	1	90.5	95.7	44.2	44.5		
		46.4	47.0	266.3	261.6	16	11	91.4	97.0	41.8	42.2		
1326	5.0	49.5	50.0	266.6	262.4	16	3	91.3	94.8	54.2	54.5	2.8	741
		51.9	52.3	267.6	263.7	16	13	92.2	96.1	51.9	52.2		
		54.2	54.5	268.5	264.9	16	23	93.1	97.3	49.5	50.0		
1326	5.0	54.9	55.2	268.7	265.2	16	26	88.5	91.4	59.6	59.6	4.0	769
		57.3	57.5	269.6	266.4	16	36	89.3	92.5	57.3	57.4		
		59.6	59.7	270.5	267.5	16	46	90.1	93.6	54.9	55.1		
489	3.7	52.5	52.8	268.8	265.0	16	37	89.4	92.6	57.1	57.1	4.0	768
		54.9	55.1	269.6	266.1	16	47	90.2	93.7	54.7	54.9		
		57.2	57.3	270.5	267.3	16	57	91.1	94.9	52.4	52.6		
1349	5.2	49.1	49.2	271.3	267.0	16	52	84.6	88.3	53.8	53.5	3.9	774
		51.5	51.5	272.1	268.1	17	2	85.3	89.3	51.5	51.3		
		53.8	53.7	272.9	269.2	17	12	86.0	90.4	49.2	49.0		
513	2.8	44.8	44.4	276.5	271.4	17	4	78.8	83.0	49.8	49.0	4.8	1539
		47.1	46.7	277.1	272.4	17	14	79.2	83.8	47.5	46.7		
		49.4	49.0	277.6	273.3	17	24	79.7	84.7	45.2	44.5		

CATNO	MAG	WEST STAR				LST HRS MIN	EAST STAR				MAG	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT 20	LAT 25	LAT 20	LAT 25		LAT 20	LAT 25	LAT 20	LAT 25			
1372	5.3	43.3	43.7	268.0	262.7	17	17	86.4	90.9	48.0	47.9	3.9	774
		45.6	45.9	268.9	264.0	17	27	87.1	92.0	45.6	45.6		
		47.9	48.2	269.8	265.3	17	37	87.9	93.2	43.3	43.3		
513	2.8	50.1	49.6	277.8	273.6	17	27	79.5	83.0	54.8	54.0	4.3	804
		52.5	51.9	278.4	274.5	17	37	80.0	83.9	52.4	51.7		
		54.8	54.2	279.0	275.5	17	47	80.6	84.8	50.1	49.5		
1378	5.4	46.3	45.8	278.0	273.2	17	43	80.4	84.4	51.1	50.4	4.3	804
		48.6	48.1	278.5	274.1	17	53	80.9	85.3	48.7	48.1		
		51.0	50.4	279.1	275.0	18	3	81.4	86.2	46.4	45.9		
1375	5.1	55.8	56.5	263.4	261.1	18	6	94.4	97.1	60.5	61.0	3.7	834
		58.1	58.8	264.4	261.4	18	16	95.3	98.4	58.2	58.8		
		60.5	61.0	265.4	262.6	18	26	96.3	99.7	55.8	56.5		
584	4.3	38.7	38.6	274.4	268.2	18	32	82.8	88.1	43.4	43.0	5.3	1570
		41.1	40.9	275.1	269.3	18	42	83.4	89.1	41.1	40.7		
		43.4	43.1	275.7	270.4	19	52	83.9	90.2	38.7	38.5		
582	2.8	52.3	53.1	262.6	258.8	19	12	91.7	94.9	57.3	57.6	4.7	1603
		54.7	55.4	263.6	260.2	19	22	92.6	96.1	55.0	55.4		
		57.0	57.6	264.7	261.5	19	32	93.5	97.3	52.6	53.1		
588	3.8	55.0	55.9	261.2	257.9	19	27	94.5	97.4	59.7	60.2	4.5	1614
		57.3	58.1	262.3	259.2	19	37	95.5	98.6	57.4	58.0		
		59.6	60.3	263.4	260.5	19	47	96.5	99.9	55.0	55.7		
584	4.3	54.4	53.8	278.5	274.9	19	39	70.3	82.3	59.1	58.3	5.2	899
		56.7	56.0	279.1	275.8	19	49	70.9	83.1	56.8	56.1		
		59.0	58.3	279.7	276.7	19	59	70.4	84.0	54.5	53.8		
635	4.9	41.0	41.5	266.5	260.9	19	53	88.2	93.1	45.6	45.6	2.6	871
		43.3	43.8	267.5	262.3	20	3	89.0	94.3	43.2	43.4		
		45.7	46.0	268.5	263.6	20	13	89.8	95.6	40.9	41.1		
613	4.5	53.5	53.4	273.0	269.3	20	8	84.3	87.4	58.1	57.8	2.9	7
		55.9	55.7	273.8	270.4	20	18	85.0	88.4	55.8	55.5		
		58.2	58.0	274.5	271.4	20	28	85.7	89.4	53.4	53.2		
656	2.1	40.6	41.2	266.1	260.4	20	21	91.8	96.7	45.4	45.7	4.7	885
		43.0	43.5	267.1	261.8	20	31	92.8	98.1	43.0	43.5		
		45.3	45.7	268.1	263.2	20	41	93.8	99.5	40.7	41.2		
656	2.1	45.3	45.7	268.1	263.2	20	41	93.8	99.5	40.7	41.2	2.9	7
		47.7	48.0	269.0	264.4	20	51	94.7	100.8	48.0	48.0		
		50.0	50.2	269.8	265.7	21	1	95.2	101.1	45.7	45.8		
656	2.1	54.5	54.5	271.4	267.9	21	20	83.7	86.6	59.5	59.1	3.7	50
		56.8	56.8	272.2	269.1	21	30	84.4	87.6	57.2	56.8		
		59.2	59.1	273.0	270.3	21	40	85.1	88.6	54.9	54.6		
703	4.3	42.6	42.0	278.9	273.5	21	47	79.5	84.1	47.4	46.7	4.9	1032
		44.9	44.3	279.4	274.4	21	57	80.0	85.0	45.1	44.5		
		47.2	46.6	279.9	275.2	22	7	80.4	85.8	42.8	42.2		
716	3.0	44.0	44.2	269.4	264.2	22	7	87.0	91.5	48.5	48.5	3.7	50
		46.3	46.5	270.2	265.5	22	17	87.8	92.6	46.2	46.2		
		48.7	48.8	271.1	266.7	22	27	88.6	93.8	43.8	43.9		
1484	5.4	57.3	57.6	268.1	264.9	22	29	89.1	91.7	62.0	62.0	4.4	98
		59.6	59.8	269.0	266.1	22	39	89.9	92.8	59.7	59.8		
		62.0	62.1	269.8	267.2	22	49	90.8	94.0	57.3	57.5		
743	3.8	40.6	40.4	275.4	269.5	22	35	80.2	85.2	45.4	44.8	2.7	66
		43.0	42.7	276.0	270.6	22	45	80.7	86.0	43.1	42.5		
		45.3	44.9	276.6	271.6	22	55	81.1	86.9	40.8	40.3		
1511	4.7	49.0	49.9	262.2	258.0	22	49	94.2	97.8	53.9	54.4	4.3	85
		51.4	52.1	263.3	259.4	22	59	95.2	99.1	51.5	52.2		
		53.7	54.4	264.3	260.7	23	9	96.3	100.5	49.2	49.9		
1511	4.7	52.8	53.5	263.9	260.2	23	5	92.2	95.4	57.4	57.7	4.7	1083
		55.1	55.7	264.9	261.5	23	15	93.2	96.6	55.0	55.5		
		57.5	57.9	265.9	262.8	23	25	94.1	97.9	52.7	53.2		
1503	5.2	56.1	56.1	271.1	267.8	23	16	86.0	88.8	60.9	60.7	4.3	125
		58.4	58.4	271.9	268.9	23	26	86.8	89.9	58.6	58.4		
		60.8	60.7	272.7	269.9	23	36	87.6	90.9	56.2	56.2		
749	3.9	53.3	54.1	262.9	259.2	23	27	91.8	94.9	58.1	58.4	3.8	121
		55.6	56.3	263.9	260.6	23	37	92.7	96.1	55.7	56.1		
		58.0	58.5	264.9	261.8	23	47	93.7	97.3	53.4	53.9		
741	2.8	57.3	57.5	269.9	266.7	23	41	86.2	88.8	62.2	62.0	4.0	150
		59.7	59.8	270.9	267.8	23	51	86.9	89.8	59.8	59.7		
		62.0	62.0	271.6	268.9	24	1	87.7	90.9	57.5	57.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 25	LAT 30	LAT 25	LAT 30	HRS	MIN	LAT 25	LAT 30		
772	5.2	48.1	49.1	260.7	256.4	23	51	92.6	96.4	52.8	53.2	4.3	125
		50.3	51.2	262.1	258.1	0	1	93.8	97.8	50.5	51.0		
		52.6	53.3	263.4	259.6	0	11	95.0	99.4	48.3	48.9		
1539	4.8	48.7	48.3	276.9	272.5	0	10	80.3	84.1	53.2	52.5	4.5	1112
		50.9	50.5	277.7	273.6	0	20	81.1	85.2	51.0	50.4		
		53.2	52.6	278.5	274.7	0	30	81.9	86.3	48.7	48.2		
778	4.5	51.7	51.9	269.8	265.8	0	20	87.4	90.7	56.3	56.2	3.9	159
		54.0	54.1	270.8	267.2	0	30	88.4	92.0	54.1	54.1		
		56.3	56.2	271.8	268.5	0	40	89.4	93.3	51.8	51.9		
1541	4.5	52.9	52.9	271.7	267.9	0	30	85.8	89.0	57.4	57.2	1.1	168
		55.2	55.1	272.7	269.2	0	40	86.8	90.3	55.1	55.0		
		57.4	57.3	273.7	270.5	0	50	87.7	91.5	52.9	52.9		
778	4.5	56.9	56.9	272.1	268.9	0	43	85.5	88.3	61.3	61.0	4.7	1140
		59.2	59.1	273.1	270.1	0	53	86.5	89.5	59.1	58.9		
		61.5	61.2	274.1	271.4	1	3	87.4	90.7	56.8	56.7		
804	4.3	50.5	50.2	275.6	271.5	1	0	80.2	83.7	55.2	54.5	4.7	184
		52.8	52.4	276.5	272.7	1	10	81.0	84.8	53.0	52.3		
		55.0	54.6	277.4	273.9	1	20	81.8	85.9	50.7	50.2		
804	4.3	54.6	54.1	277.2	273.6	1	18	79.4	82.4	59.0	58.2	3.0	211
		56.8	56.3	278.1	274.8	1	28	80.2	83.5	56.8	56.1		
		59.1	58.4	278.9	275.9	1	38	81.0	84.6	54.6	53.9		
871	2.6	40.8	41.5	264.2	258.6	1	53	92.8	97.6	45.5	45.9	4.7	1140
		43.0	43.7	265.5	260.3	2	3	94.0	99.2	43.2	43.8		
		45.3	45.8	266.7	261.8	2	13	95.2	100.9	41.0	41.7		
855	3.6	52.9	53.5	264.5	260.8	2	16	91.0	94.2	57.7	57.9	5.1	1165
		55.1	55.7	265.7	262.3	2	26	92.1	95.5	55.4	55.7		
		57.4	57.8	266.9	263.7	2	36	93.2	96.9	53.1	53.6		
1603	4.7	50.4	51.4	261.1	257.1	2	28	92.3	95.8	54.9	55.3	5.1	1169
		52.7	53.5	262.4	258.7	2	38	93.5	97.2	52.7	53.1		
		54.9	55.6	263.7	260.3	2	48	94.6	98.7	50.4	51.0		
871	2.6	51.2	51.4	269.6	265.6	2	39	86.6	90.0	55.8	55.6	1.9	251
		53.5	53.6	270.7	267.0	2	49	87.5	91.2	53.5	53.5		
		55.7	55.7	271.7	268.3	2	59	88.5	92.5	51.3	51.3		
885	4.7	50.4	50.9	265.9	261.8	2	56	91.5	95.0	54.9	55.2	3.4	256
		52.7	53.1	267.0	263.3	3	6	92.6	96.4	52.6	53.0		
		54.9	55.2	268.2	264.7	3	16	93.8	97.9	50.4	50.9		
1004	4.0	40.0	40.0	271.0	266.0	3	6	82.6	87.7	44.6	44.2	3.2	241
		42.2	42.2	272.9	267.4	3	16	83.3	88.8	42.4	42.1		
		44.5	44.4	273.8	268.7	3	26	84.1	90.1	40.1	39.9		
898	5.2	47.5	47.4	273.5	268.9	3	16	82.6	86.5	52.1	51.6	3.9	269
		49.8	49.6	274.4	270.1	3	26	83.4	87.7	49.9	49.5		
		52.0	51.7	275.3	271.4	3	36	84.3	88.8	47.6	47.3		
1004	4.9	44.9	44.8	274.0	269.9	3	28	83.6	87.9	49.4	48.0	3.9	269
		47.2	47.0	274.9	270.2	3	38	84.4	89.1	47.2	46.9		
		49.4	49.1	275.7	271.4	3	48	85.3	90.3	44.9	44.7		
27	4.3	40.2	39.7	278.5	272.6	3	44	80.1	85.2	44.6	43.9	5.2	1182
		42.5	41.9	279.2	273.7	3	54	80.7	86.3	42.3	41.8		
		44.7	44.1	279.8	274.8	4	4	81.4	87.4	40.1	39.6		
898	5.2	57.4	56.9	277.4	274.2	4	0	79.0	81.7	62.1	61.3	5.5	321
		59.7	59.1	278.3	275.3	4	10	79.8	82.7	59.9	59.1		
		61.9	61.2	279.1	276.4	4	20	80.7	83.8	57.7	57.0		
50	3.7	39.0	39.8	263.4	257.4	4	12	91.8	97.0	43.8	44.2	3.7	277
		41.3	42.0	264.7	259.2	4	22	92.9	98.5	41.6	42.1		
		43.5	44.1	266.0	260.8	4	32	94.2	100.2	39.3	39.9		
1020	5.2	53.3	53.2	272.9	269.2	4	35	83.5	86.7	57.7	57.3	4.2	326
		55.6	55.4	273.9	270.4	4	45	84.4	87.8	55.4	55.1		
		57.8	57.5	274.8	271.7	4	55	85.3	89.1	53.2	52.9		
1032	4.9	49.5	49.1	276.9	272.6	4	46	80.7	84.4	53.9	53.3	4.7	1228
		51.7	51.2	277.7	273.7	4	56	81.5	85.5	51.7	51.1		
		54.0	53.4	278.5	274.9	5	6	82.3	86.6	49.4	49.0		
1032	4.9	52.2	51.7	277.9	274.0	4	58	78.9	82.2	56.9	56.1	5.2	1239
		54.4	53.8	278.7	275.1	5	8	79.7	83.3	54.7	53.9		
		56.7	56.0	279.5	276.2	5	18	80.5	84.3	52.4	51.8		
60	4.5	50.9	51.8	261.1	257.1	5	8	92.5	95.9	55.5	55.9	4.3	337
		53.1	54.0	262.4	258.7	5	18	93.6	97.3	53.3	53.8		
		55.4	56.1	263.6	260.3	5	28	94.8	98.8	51.0	51.6		
66	2.7	47.5	47.2	275.8	271.2	5	20	80.6	84.5	52.0	51.3	5.2	1239
		49.7	49.3	276.7	272.4	5	30	81.4	85.6	49.8	49.2		
		52.0	51.5	277.5	273.6	5	40	82.2	86.8	47.5	47.0		

CATNO	MAG	WEST STAR				AZ		LST		EAST STAR				MAG	CATNO
		Z. D.		LAT 30		LAT 25	LAT 30	HRS	MIN	LAT 25	LAT 30	Z. D.			
60	4.5	56.1	56.7	264.0	260.7	5	31	92.4	95.2	60.8	61.1	3.8	365		
		58.3	58.9	265.2	262.2	5	41	93.5	96.6	58.5	58.9				
		60.6	61.0	266.4	263.6	5	51	94.7	98.0	56.2	56.8				
1058	4.5	53.1	54.0	262.0	258.3	5	45	94.0	97.1	57.6	56.1	3.8	365		
		55.4	56.1	263.2	259.9	5	55	95.2	98.6	55.3	55.9				
		57.6	58.2	264.4	261.3	6	5	96.4	100.1	53.1	53.8				
114	4.5	39.0	39.2	270.8	264.6	5	58	83.6	88.9	43.5	43.1	5.2	1239		
		41.2	41.3	271.8	266.1	6	8	84.4	90.1	41.2	41.0				
		43.5	43.5	272.7	267.4	6	18	85.2	91.4	39.0	38.8				
58	4.4	51.9	52.7	263.0	259.2	6	14	91.9	95.2	56.4	56.7	1.3	380		
		54.2	54.8	264.3	260.8	6	24	93.0	96.6	54.1	54.5				
		56.5	57.0	265.5	262.2	6	34	94.2	98.1	51.9	52.4				
1083	4.7	53.8	54.6	262.5	259.9	6	35	94.4	97.5	58.2	58.7	3.9	396		
		56.1	56.8	263.7	260.4	6	45	95.6	98.9	55.9	56.6				
		58.3	58.9	264.9	261.9	6	55	96.8	100.4	53.7	54.4				
1089	5.1	48.7	48.3	276.7	272.3	6	46	78.6	82.3	53.5	52.7	5.1	405		
		51.0	50.5	277.5	273.4	6	56	79.3	83.3	51.3	50.5				
		53.2	52.6	278.3	274.5	7	6	80.0	84.4	49.0	48.4				
1112	4.5	40.2	40.0	275.1	269.2	6	59	81.1	86.2	44.6	44.0	3.7	384		
		42.4	42.1	275.9	270.4	7	9	81.8	87.4	42.3	41.9				
		44.7	44.3	276.7	271.6	7	19	82.5	88.5	40.1	39.7				
125	4.3	52.9	53.3	267.4	263.7	7	5	86.9	90.1	57.6	57.5	3.4	423		
		55.2	55.4	268.6	265.1	7	19	87.9	91.3	55.3	55.3				
		57.4	57.6	269.6	266.5	7	29	88.9	92.7	53.1	53.1				
125	4.3	57.0	57.2	269.4	266.2	7	27	86.2	88.9	61.7	61.5	2.2	444		
		59.2	59.3	270.5	267.5	7	37	87.2	90.1	59.4	59.3				
		61.5	61.5	271.5	268.8	7	47	88.2	91.4	57.2	57.2				
164	3.6	44.5	44.6	272.4	267.3	7	35	87.6	88.0	49.2	48.8	2.6	422		
		46.8	46.7	273.3	268.6	7	49	88.5	89.2	47.0	46.7				
		49.1	48.9	274.3	269.9	7	59	89.3	90.4	44.7	44.5				
162	3.9	49.3	49.3	272.1	267.8	7	52	82.2	85.9	54.0	53.5	4.5	1304		
		51.5	51.4	273.0	269.1	8	2	83.1	87.0	51.7	51.3				
		53.8	53.6	274.0	270.3	8	12	83.9	88.2	49.5	49.2				
1125	4.8	50.2	50.5	268.7	264.6	8	3	87.9	91.4	54.7	54.7	5.5	1308		
		52.4	52.6	269.8	266.1	8	13	88.9	92.7	52.4	52.5				
		54.7	54.8	270.9	267.3	8	23	89.9	94.1	50.2	50.3				
159	3.9	55.6	55.5	272.3	268.8	8	14	82.2	85.1	60.2	59.7	5.2	473		
		57.8	57.7	273.3	270.1	8	24	83.1	86.2	58.0	57.5				
		60.1	59.9	274.2	271.3	8	34	83.9	87.4	55.7	55.3				
1148	5.3	42.1	42.3	269.5	264.0	8	25	85.1	89.8	46.6	46.3	4.5	1304		
		44.3	44.5	270.5	265.4	8	35	85.9	91.1	44.3	44.2				
		46.6	46.7	271.5	266.8	8	45	86.8	92.4	42.1	42.0				
184	4.7	49.2	48.7	277.7	273.3	8	37	79.2	82.9	53.3	53.0	4.8	1323		
		51.4	50.9	278.4	274.4	8	47	80.0	84.0	51.5	50.8				
		53.7	53.0	279.2	275.5	8	57	80.7	85.0	49.3	48.7				
1149	5.3	47.7	47.7	272.0	267.5	8	50	85.4	89.3	52.1	51.9	5.2	473		
		50.0	49.9	273.0	268.8	8	0	86.3	90.5	49.8	49.7				
		52.2	52.1	273.9	270.1	8	10	87.3	91.8	47.6	47.5				
208	4.5	52.6	53.4	262.7	259.0	9	6	92.8	96.0	57.2	57.6	3.0	488		
		54.9	55.6	263.9	260.5	9	16	93.9	97.4	54.9	55.4				
		57.2	57.7	265.1	262.0	9	26	95.1	98.9	52.7	53.3				
241	3.2	40.2	40.0	275.9	270.0	9	18	82.3	87.4	44.6	44.1	4.8	1323		
		42.5	42.1	276.7	271.2	9	28	83.0	88.5	42.3	42.0				
		44.7	44.3	277.5	272.4	9	38	83.8	89.7	40.1	39.8				
1148	5.3	56.5	56.2	275.7	272.4	9	29	81.8	84.5	61.2	60.6	2.8	513		
		58.8	58.3	276.6	273.6	9	39	82.6	85.7	59.0	58.5				
		61.0	60.5	277.5	274.7	9	49	83.5	86.8	56.7	56.3				
218	5.5	54.3	54.0	274.5	270.9	9	39	82.6	85.7	59.0	58.5	2.8	513		
		56.5	56.2	275.4	272.1	9	49	83.5	86.8	56.7	56.3				
		58.8	58.4	276.3	273.3	9	59	84.4	88.0	54.5	54.2				
219	5.5	56.5	56.2	275.4	272.1	9	49	80.8	83.6	61.2	60.5	0.2	526		
		58.8	58.4	276.3	273.3	9	59	81.7	84.7	59.0	58.4				
		61.0	60.5	277.2	274.4	10	9	82.5	85.8	56.7	56.2				
251	1.9	48.8	48.9	270.3	266.0	10	3	84.8	88.5	53.6	53.3	2.8	513		
		51.0	51.1	271.4	267.3	10	13	85.7	89.7	51.3	51.1				
		53.3	53.2	272.4	268.6	10	23	86.6	91.0	49.1	49.0				
251	1.9	51.0	51.1	271.4	267.3	10	13	82.9	86.3	55.8	55.4	0.2	526		
		53.3	53.2	272.4	268.6	10	23	83.8	87.5	53.6	53.2				
		55.5	55.4	273.3	269.9	10	33	84.6	88.7	51.3	51.0				

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT 25	LAT 30	LAT 25	LAT 30	HRS	MIN	LAT 25	LAT 30	LAT 25	LAT 30		
277	3.7	44.3	44.7	268.5	263.4	10	24	86.7	91.1	48.8	48.7	2.8	513
		46.6	46.8	269.5	264.8	10	34	87.7	92.4	46.6	46.6		
		48.8	49.0	270.6	266.2	10	44	88.7	93.8	44.3	44.4		
277	3.7	47.7	47.9	270.1	265.5	10	39	88.2	88.0	52.4	52.1	5.4	1378
		50.0	50.1	271.1	266.9	10	49	85.1	89.3	50.1	49.9		
		52.2	52.2	272.1	268.2	10	59	86.0	90.5	47.9	47.7		
1200	5.0	44.4	44.5	271.5	266.4	10	55	85.6	90.0	48.8	48.6	5.4	1378
		46.6	46.6	272.4	267.7	11	5	86.5	91.3	46.5	46.4		
		48.9	48.8	273.4	269.0	11	15	87.5	92.6	44.3	44.3		
277	3.7	57.2	57.0	274.2	271.0	11	21	81.9	84.6	61.8	61.2	4.3	584
		59.5	59.1	275.2	272.2	11	31	82.8	85.7	59.6	59.1		
		61.7	61.3	276.1	273.4	11	41	83.7	86.9	57.3	56.9		
1200	5.0	57.2	56.8	276.8	273.5	11	52	80.6	83.3	62.0	61.3	3.8	609
		59.5	59.0	277.6	274.7	12	2	81.5	84.4	59.7	59.1		
		61.7	61.1	278.5	275.8	12	12	82.3	85.6	57.5	57.0		
326	4.2	50.9	50.7	273.8	269.7	12	22	83.2	86.7	55.2	54.8	3.8	609
		53.2	52.9	274.7	270.9	12	32	84.1	87.9	53.0	52.6		
		55.4	55.1	275.6	272.1	12	42	85.0	89.1	50.7	50.5		
379	3.6	38.0	38.7	265.6	259.3	12	46	89.9	95.3	42.6	42.8	4.3	584
		40.3	40.8	266.8	261.0	12	56	90.9	96.8	40.4	40.7		
		42.6	43.0	268.0	262.6	13	6	92.1	98.4	38.1	38.5		
379	3.6	40.5	41.0	267.0	261.2	12	57	90.5	95.5	44.8	45.1	5.3	1421
		42.8	43.2	268.1	262.8	13	7	91.6	97.0	42.6	43.0		
		45.1	45.3	269.2	264.3	13	17	92.8	98.6	40.3	40.8		
365	3.8	51.9	52.7	263.0	259.1	13	10	91.0	94.3	56.4	56.6	4.9	635
		54.2	54.8	264.2	260.7	13	20	92.1	95.7	54.1	54.4		
		56.4	57.0	265.4	262.1	13	30	93.2	97.1	51.8	52.3		
1246	5.1	55.9	56.3	267.0	263.6	13	21	89.2	92.0	60.7	60.7	2.1	656
		58.2	58.5	268.1	265.0	13	31	90.3	93.4	58.4	58.5		
		60.4	60.6	269.2	266.4	13	41	91.4	94.7	56.1	56.4		
379	3.6	48.5	48.6	270.8	266.4	13	32	85.6	89.4	53.0	52.8	5.2	1454
		50.7	50.7	271.8	267.7	13	42	86.5	90.6	50.7	50.6		
		53.0	52.9	272.8	269.0	13	52	87.5	91.9	48.5	48.4		
475	5.1	42.0	41.5	277.7	272.1	13	47	79.6	83.3	46.7	45.9	3.2	841
		44.2	43.7	278.4	273.2	13	57	79.2	84.3	44.4	43.7		
		46.4	45.9	279.1	274.4	14	7	79.8	85.4	42.2	41.6		
356	3.9	53.8	54.5	263.2	259.7	14	9	94.2	97.2	58.3	58.8	3.7	680
		56.0	56.7	264.5	261.2	14	19	95.4	98.7	56.0	56.6		
		58.3	58.8	265.6	262.6	14	29	96.6	100.2	53.8	54.5		
423	3.4	45.7	46.2	267.6	262.8	14	25	88.5	92.6	50.4	50.4	4.7	1465
		48.0	48.3	268.7	264.3	14	35	89.5	94.0	48.1	48.3		
		50.3	50.5	269.8	265.7	14	45	90.5	95.4	45.9	46.1		
422	2.6	46.9	46.7	275.5	270.8	14	37	81.3	85.2	51.6	51.0	3.9	690
		49.2	48.8	276.4	272.0	14	47	82.0	86.4	49.3	48.8		
		51.4	51.0	277.2	273.2	14	57	82.8	87.5	47.1	46.6		
423	3.4	50.7	50.9	270.0	265.9	14	47	84.4	87.9	55.6	55.3	4.4	1451
		53.0	53.1	271.1	267.3	14	57	85.3	89.1	53.3	53.1		
		55.2	55.2	272.1	268.6	15	7	86.3	90.3	51.1	50.9		
1304	4.5	45.9	45.7	274.7	269.8	15	6	83.4	87.5	50.3	49.9	4.3	703
		48.2	47.9	275.6	271.1	15	16	84.2	88.7	48.1	47.7		
		50.4	50.0	276.4	272.3	15	26	85.1	89.9	45.8	45.6		
423	3.4	57.5	57.4	273.1	269.9	15	17	81.4	84.0	62.3	61.7	3.8	743
		59.8	59.5	274.0	271.1	15	27	82.2	85.1	60.1	59.5		
		62.0	61.7	275.0	272.3	15	37	83.1	86.3	57.8	57.4		
450	4.2	51.0	52.0	269.8	256.9	15	28	93.0	96.4	55.6	56.0	5.1	725
		53.3	54.1	262.2	259.5	15	38	94.1	97.8	53.3	53.8		
		55.5	56.2	263.4	260.1	15	48	95.3	99.3	51.0	51.7		
1308	5.5	52.8	52.9	271.3	267.5	15	38	83.2	86.4	57.6	57.1	3.8	743
		55.1	55.0	272.3	268.8	15	48	84.1	87.6	55.3	55.0		
		57.3	57.2	273.3	270.0	15	58	85.0	88.8	53.1	52.8		
1323	4.8	44.7	44.2	277.8	272.7	15	50	78.2	82.6	49.1	48.3	4.6	1508
		46.9	46.4	278.5	273.8	16	0	78.9	83.6	46.9	46.1		
		49.1	48.5	279.2	274.9	16	10	79.5	84.6	44.6	43.9		
1326	5.0	50.0	50.9	262.4	258.3	16	3	94.8	98.4	54.5	55.0	2.8	741
		52.3	53.0	263.7	259.9	16	13	96.1	99.9	52.2	52.9		
		54.5	55.1	264.9	261.4	16	23	97.3	101.4	50.0	50.8		
1326	5.0	55.2	55.8	265.2	261.8	16	26	91.4	94.3	59.6	59.9	4.0	768
		57.5	57.9	266.4	263.3	16	36	92.5	95.7	57.4	57.7		
		59.7	60.1	267.5	264.6	16	46	93.6	97.1	55.1	55.6		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNC	
		Z.D.		AZ			Z.D.		AZ				
		LAT 25	LAT 30	LAT 25	LAT 30	HRS	MIN	LAT 25	LAT 30	LAT 25	LAT 30		
488	3.0	52.8	53.4	265.0	261.2	16	37	92.6	95.8	57.1	57.5	4.0	768
		55.1	55.6	266.1	262.7	16	47	93.7	97.2	54.9	55.4		
		57.3	57.7	267.3	264.1	16	57	94.9	98.7	52.6	53.2		
1349	5.2	49.0	49.4	266.9	262.6	16	51	88.2	91.9	53.8	53.8	3.9	774
		51.2	51.6	268.0	264.0	17	1	89.2	93.2	51.5	51.6		
		53.5	53.7	269.1	265.4	17	11	90.3	94.5	49.2	49.4		
513	2.8	44.4	44.5	271.4	266.3	17	4	83.0	87.4	49.0	48.6	4.8	1539
		46.7	46.7	272.4	267.7	17	14	83.8	88.6	46.7	46.4		
		49.0	48.9	273.3	269.0	17	24	84.7	89.8	44.5	44.2		
1372	5.3	43.4	44.3	262.6	257.5	17	16	90.8	95.3	48.1	48.4	3.9	774
		45.7	46.4	263.9	259.1	17	26	91.9	96.7	45.8	46.2		
		47.9	48.6	265.2	260.7	17	36	93.1	98.2	43.6	44.1		
513	2.8	49.4	49.3	273.5	269.2	17	26	82.9	86.6	54.2	53.8	4.3	804
		51.7	51.5	274.5	270.5	17	36	83.8	87.7	52.0	51.6		
		53.9	53.6	275.4	271.7	17	46	84.7	88.9	49.7	49.4		
1378	5.4	45.8	45.8	273.2	268.3	17	43	84.4	88.6	50.4	50.1	4.3	804
		48.1	47.9	274.1	269.6	17	53	85.3	89.8	48.1	47.9		
		50.4	50.1	275.0	270.9	18	3	86.2	91.1	45.9	45.8		
584	4.3	38.6	39.0	268.2	262.3	18	32	88.1	93.5	43.0	43.1	5.3	1570
		40.9	41.2	269.3	263.6	18	42	89.1	94.9	40.7	40.9		
		43.1	43.3	270.4	265.1	18	52	90.2	96.4	38.5	38.8		
618	2.8	40.8	40.6	274.6	269.7	19	27	79.4	84.3	45.6	44.9	3.7	862
		43.0	42.8	275.4	270.0	19	37	80.1	85.4	43.4	42.7		
		45.3	45.0	276.2	271.2	19	47	80.7	86.5	41.1	40.6		
584	4.3	53.8	53.5	274.9	271.2	19	39	82.3	85.4	58.3	57.8	5.2	899
		56.0	55.7	275.8	272.4	19	49	83.1	86.5	56.1	55.6		
		58.3	57.8	276.7	273.6	19	59	84.0	87.7	53.8	53.5		
584	4.3	56.0	55.7	275.8	272.4	19	49	80.0	82.9	60.7	59.9	4.9	1004
		58.3	57.8	276.7	273.6	19	59	80.9	84.0	58.5	57.8		
		60.5	60.0	277.6	274.9	20	9	81.7	85.1	56.2	55.6		
613	4.5	53.2	53.4	269.2	265.5	20	7	87.3	90.4	58.0	57.9	2.9	7
		55.5	55.6	270.3	266.8	20	17	88.3	91.7	55.7	55.7		
		57.7	57.7	271.3	268.2	20	27	89.3	93.0	53.5	53.6		
613	4.5	57.0	57.1	271.0	267.9	20	24	83.6	86.3	61.6	61.2	5.2	1020
		59.3	59.3	272.0	269.1	20	34	84.5	87.5	59.4	59.0		
		61.6	61.4	273.0	270.3	20	44	85.5	88.7	57.1	56.8		
656	2.1	45.7	46.5	263.2	258.4	20	41	90.8	95.0	50.3	50.5	2.9	7
		48.0	49.7	264.4	260.0	20	51	91.9	96.4	48.0	48.4		
		50.2	50.8	265.7	261.6	21	1	93.1	97.9	45.8	46.2		
1454	5.2	52.1	51.9	274.1	270.2	21	3	80.5	83.8	56.6	55.9	4.9	1032
		54.4	54.1	275.0	271.4	21	13	81.3	84.9	54.4	53.8		
		56.6	56.2	275.9	272.6	21	23	82.1	86.1	52.1	51.6		
1469	4.7	45.8	46.0	269.4	264.6	21	13	88.3	92.4	50.5	50.6	5.2	1020
		48.1	48.2	270.5	266.0	21	23	89.3	93.7	48.3	48.4		
		50.3	50.4	271.5	267.4	21	33	90.3	95.2	46.0	46.2		
690	3.9	41.3	41.1	275.1	269.4	21	23	79.8	84.7	45.9	45.3	4.3	27
		43.5	43.3	275.9	270.6	21	33	80.5	85.7	43.7	43.1		
		45.8	45.4	276.7	271.8	21	43	81.1	86.8	41.5	40.9		
703	4.3	42.0	42.0	273.5	267.9	21	47	84.1	88.9	46.7	46.4	4.9	1032
		44.3	44.2	274.4	269.2	21	57	85.0	90.1	44.5	44.3		
		46.6	46.3	275.2	270.5	22	7	85.8	91.4	42.2	42.1		
716	3.0	44.0	44.7	264.1	259.0	22	6	91.4	95.7	48.7	49.0	3.7	50
		46.3	46.9	265.4	260.3	22	16	92.5	97.2	46.4	46.8		
		48.5	49.0	266.6	262.2	22	26	93.7	98.7	44.2	44.7		
743	4.3	51.7	51.3	277.2	273.2	22	30	79.4	82.7	56.4	55.6	5.4	89
		54.0	53.5	278.0	274.4	22	40	80.2	83.8	54.2	53.5		
		56.2	55.6	278.8	275.5	22	50	81.0	84.9	51.9	51.3		
752	3.7	39.9	39.2	270.4	264.2	22	45	85.7	91.0	43.4	43.3	2.7	66
		41.2	41.3	271.4	265.7	22	55	86.6	92.3	41.2	41.1		
		43.5	43.5	272.4	267.1	23	5	87.5	93.7	38.9	39.0		
752	3.7	43.7	43.7	272.5	267.2	23	6	82.2	86.7	48.4	47.9	5.4	89
		45.9	45.9	273.4	268.6	23	16	83.0	87.8	46.1	45.7		
		48.2	48.0	274.3	269.9	23	26	83.8	89.0	43.9	43.5		
743	3.8	49.3	49.1	273.4	269.1	23	18	83.3	87.0	53.6	53.2	4.5	114
		51.5	51.3	274.4	270.4	23	28	84.1	88.1	51.4	51.0		
		53.8	53.5	275.3	271.6	23	38	85.0	89.3	49.1	48.9		
752	3.7	48.7	48.5	274.5	270.1	23	28	81.6	85.4	53.1	52.6	5.2	1094
		50.9	50.6	275.4	271.3	23	38	82.4	86.5	50.9	50.4		
		53.2	52.8	276.3	272.5	23	48	83.2	87.6	48.6	48.2		

CATNO	MAG	WEST STAR				LST HRS MIN	AZ		EAST STAR				MAG	CATNO
		Z.D.		AZ			Z.D.		Z.D.					
		LAT 25	LAT 30	LAT 25	LAT 30		LAT 25	LAT 30	LAT 25	LAT 30	LAT 25	LAT 30		
741	2.8	57.5	57.9	266.7	263.6	23	41	88.8	91.5	62.0	62.0			
		59.8	60.1	267.8	264.9	23	51	89.8	92.8	59.7	59.8	4.0	150	
		62.0	62.2	268.9	266.3	24	1	90.9	94.1	57.4	57.7			

CATNO	MAG	WEST STAR				LST HRS MIN	EAST STAR				MAG	CATNO
		Z. D.		AZ			Z. D.		AZ			
		LAT 30	LAT 35	LAT 30	LAT 35		LAT 30	LAT 35	LAT 30	LAT 35		
1539	4.8	45.7	45.8	271.0	266.2	23 58	82.5	86.7	50.1	49.6	3.8	136
		47.9	47.9	272.2	267.7	0 8	83.5	88.0	48.0	47.6		
		50.0	49.9	273.4	269.2	0 18	84.5	89.4	45.8	45.6		
1539	4.8	45.9	46.0	271.2	266.3	23 59	82.3	86.5	50.5	50.0	3.0	139
		48.1	48.1	272.3	267.9	0 9	83.3	87.8	48.3	47.9		
		50.2	50.1	273.5	269.3	0 19	84.4	89.2	46.2	45.9		
1539	4.8	46.1	46.2	271.3	266.5	0 0	82.3	86.4	50.6	50.1	3.8	142
		48.3	48.3	272.5	268.0	0 10	83.3	87.8	48.5	48.1		
		50.5	50.3	273.6	269.5	0 20	84.4	89.2	46.3	46.0		
1539	4.8	48.3	48.3	272.5	268.0	0 10	84.1	87.9	52.5	52.2	4.5	1112
		50.5	50.3	273.6	269.5	0 20	85.2	89.3	50.4	50.1		
		52.6	52.4	274.7	270.9	0 30	86.3	90.8	48.2	48.1		
778	4.5	51.9	52.5	265.8	262.0	0 20	90.7	94.1	56.2	56.5	3.9	159
		54.1	54.5	267.2	263.6	0 30	92.0	95.6	54.1	54.4		
		56.2	56.5	268.5	265.2	0 40	93.3	97.2	51.9	52.4		
1541	4.5	52.9	53.3	267.9	264.2	0 30	89.0	92.2	57.2	57.2	1.1	168
		55.1	55.3	269.2	265.7	0 40	90.3	93.7	55.0	55.2		
		57.3	57.4	270.5	267.3	0 50	91.5	95.3	52.9	53.2		
778	4.5	56.9	57.1	269.9	265.6	0 43	88.3	91.0	61.0	61.0	4.7	1140
		59.1	59.2	270.1	267.1	0 53	89.5	92.5	58.9	59.0		
		61.2	61.2	271.4	268.6	1 3	90.7	94.0	56.7	56.9		
804	4.3	50.2	50.3	271.5	267.4	1 0	83.7	87.3	54.5	54.1	4.7	184
		52.4	52.3	272.7	268.9	1 10	84.8	88.7	52.3	52.1		
		54.6	54.4	273.9	270.3	1 20	85.9	90.1	50.2	50.0		
804	4.3	53.9	53.8	273.5	269.9	1 17	82.3	85.4	58.4	57.9	3.0	211
		56.1	55.8	274.7	271.3	1 27	83.4	86.7	56.3	55.9		
		58.2	57.9	275.8	272.7	1 37	84.5	88.1	54.1	53.8		
843	4.9	53.7	54.5	262.9	259.3	2 0	90.6	93.7	58.3	58.5	4.4	232
		55.8	56.5	264.2	261.0	2 10	91.9	95.2	56.1	56.4		
		58.0	58.5	265.5	262.6	2 20	93.2	96.8	54.0	54.4		
855	3.6	53.5	54.5	260.8	257.2	2 16	94.2	97.2	57.9	58.4	5.1	1169
		55.7	56.5	262.3	259.0	2 26	95.5	98.9	55.7	56.4		
		57.8	58.5	263.7	260.6	2 36	96.9	100.5	53.6	54.3		
855	3.6	56.5	57.3	262.9	259.6	2 30	91.5	94.3	60.8	61.1	3.4	256
		58.7	59.3	264.3	261.3	2 40	92.8	95.9	58.6	59.0		
		60.8	61.3	265.6	262.9	2 50	94.2	97.4	56.5	57.0		
859	4.1	52.9	52.3	278.0	274.2	2 43	79.0	82.3	57.0	56.2	5.2	1182
		55.0	54.4	279.0	275.5	2 53	80.0	83.5	54.9	54.2		
		57.1	56.4	280.0	276.8	3 3	81.0	84.8	52.7	52.1		
859	5.2	43.5	44.1	266.5	261.3	2 58	89.0	93.5	48.1	48.2	4.1	1173
		45.7	46.1	267.8	263.0	3 8	90.2	95.0	45.9	46.1		
		47.8	48.1	269.1	264.6	3 18	91.5	96.7	43.7	44.1		
1029	4.8	42.8	42.6	275.5	270.1	3 10	82.4	87.1	47.0	46.5	3.2	254
		45.0	44.5	276.5	271.5	3 20	83.4	88.4	44.8	44.5		
		47.1	46.7	277.5	272.8	3 30	84.4	89.8	42.7	42.4		
881	4.6	53.2	52.6	277.9	274.2	3 23	78.6	81.8	57.4	56.5	3.7	294
		55.3	54.7	279.0	275.5	3 33	79.6	83.1	55.2	54.5		
		57.4	56.7	280.0	276.8	3 43	80.6	84.3	53.1	52.4		
1004	4.9	46.1	46.3	269.7	264.9	3 34	85.0	89.1	50.7	50.4	3.5	279
		48.3	48.4	271.0	266.5	3 44	86.1	90.6	48.5	48.4		
		50.4	50.4	272.2	268.0	3 54	87.3	92.0	46.4	46.3		
27	4.3	39.7	39.9	272.6	266.6	3 44	85.2	90.4	43.9	43.7	5.2	1192
		41.9	41.8	273.7	268.1	3 54	86.3	91.9	41.8	41.7		
		44.1	43.9	274.8	269.6	4 4	87.4	93.4	39.6	39.6		
27	4.3	42.8	42.6	278.1	268.7	3 58	79.7	84.3	47.3	46.6	4.2	1196
		44.9	44.7	279.2	270.2	4 8	80.6	85.6	45.1	44.5		
		47.1	46.7	276.2	271.6	4 19	81.5	86.9	43.0	42.5		
1004	4.9	55.2	54.9	274.7	271.2	4 16	81.2	84.1	59.7	59.1	4.7	1228
		57.3	57.0	275.8	272.6	4 26	82.2	85.4	57.6	57.0		
		59.5	59.0	276.9	273.9	4 36	83.3	86.7	55.4	55.0		
45	4.7	41.9	41.4	278.4	272.9	4 30	78.9	83.7	46.1	45.3	5.0	305
		44.0	43.4	279.3	274.1	4 40	79.7	84.9	44.0	43.3		
		46.1	45.5	280.1	275.3	4 50	80.6	86.2	41.8	41.2		
1032	4.9	49.1	49.0	272.6	268.3	4 46	84.4	88.1	53.3	52.9	4.7	1228
		51.2	51.1	273.7	269.7	4 56	85.5	89.5	51.1	50.9		
		53.4	53.1	274.9	271.1	5 6	86.6	91.0	49.0	48.8		
1032	4.9	51.7	51.5	274.0	270.0	4 58	82.2	85.6	56.1	55.5	5.2	1235
		53.8	53.5	275.1	271.4	5 8	83.3	86.9	53.9	53.5		
		56.0	55.6	276.2	272.8	5 18	84.3	88.3	51.8	51.5		

CATNO	MAG	WEST STAR Z. D.		AZ		LST HRS MIN	AZ		EAST STAR Z. D.		MAG	CATNO
		LAT 30	LAT 35	LAT 30	LAT 35		LAT 30	LAT 35	LAT 30	LAT 35		
1032	4.9	55.3	55.0	275.9	272.4	5 15	78.3	81.2	59.6	56.7	3.1	367
		57.5	57.0	277.0	273.8	5 25	79.3	82.5	57.5	56.7		
		59.6	59.1	278.0	275.1	5 35	80.3	83.8	55.3	54.6		
74	2.2	46.1	45.9	274.6	269.8	5 32	79.2	83.3	50.6	45.9	4.6	1244
		48.3	48.0	275.7	271.2	5 42	80.1	84.6	48.5	47.8		
		50.4	50.0	276.7	272.6	5 52	81.0	85.8	46.4	45.8		
74	2.2	48.9	48.6	276.0	271.6	5 45	81.3	85.0	53.2	52.6	3.1	367
		51.1	50.6	277.0	273.0	5 55	82.3	86.4	51.0	50.6		
		53.2	52.7	278.1	274.3	6 5	83.3	87.7	48.9	48.5		
74	2.2	52.3	51.9	277.6	273.8	6 1	80.2	83.5	56.5	55.8	3.7	384
		54.5	53.9	278.7	275.1	6 11	81.2	84.8	54.4	53.7		
		56.6	55.9	279.7	276.4	6 21	82.2	86.1	52.2	51.7		
1089	5.1	41.9	42.2	268.5	263.0	6 16	84.5	89.2	46.5	46.3	3.1	367
		44.0	44.2	269.8	264.7	6 26	85.5	90.7	44.4	44.2		
		46.2	46.3	271.1	266.3	6 36	86.6	92.1	42.2	42.2		
1089	5.1	45.2	45.5	270.6	265.6	6 32	83.4	87.6	49.9	45.5	3.7	384
		47.5	47.5	271.8	267.2	6 42	84.4	89.0	47.7	47.4		
		49.6	49.6	273.0	268.7	6 52	85.5	90.4	45.5	45.4		
1089	5.1	48.3	48.3	272.3	267.8	6 46	82.3	86.1	52.7	52.2	5.1	405
		50.5	50.4	273.4	269.3	6 56	83.3	87.5	50.5	50.1		
		52.6	52.4	274.5	270.7	7 6	84.4	88.9	48.4	48.1		
1112	4.5	37.3	40.1	269.0	263.1	6 58	86.1	91.3	44.2	44.1	3.7	384
		41.9	42.1	270.3	264.8	7 8	87.2	92.8	42.1	42.1		
		44.1	44.2	271.5	266.4	7 18	88.4	94.4	39.9	40.0		
125	4.3	53.1	53.9	263.6	259.9	7 8	90.0	93.1	57.7	57.8	3.4	423
		55.2	55.8	265.0	261.5	7 18	91.2	94.6	55.5	55.8		
		57.4	57.8	266.3	263.2	7 28	92.5	96.2	53.4	53.7		
114	4.5	56.5	56.2	274.8	271.4	7 18	82.1	84.9	60.8	60.2	4.5	1304
		58.6	58.2	275.9	272.8	7 28	83.2	86.3	58.6	58.2		
		60.8	60.3	277.0	274.2	7 38	84.3	87.6	56.5	56.1		
125	4.3	57.6	58.0	266.5	263.3	7 29	87.2	89.9	62.0	61.9	5.5	1308
		59.8	60.1	267.8	264.9	7 39	88.4	91.3	59.8	59.8		
		61.9	62.1	269.1	266.4	7 49	89.7	92.8	57.7	57.8		
164	3.5	44.6	45.0	267.3	262.3	7 39	88.0	92.3	48.8	48.9	2.6	422
		46.7	47.0	268.6	264.7	7 49	89.2	93.9	46.7	46.8		
		48.9	49.1	269.9	265.6	7 59	90.4	95.5	44.5	44.6		
162	3.0	43.1	43.4	267.6	263.3	7 51	85.8	89.5	53.7	53.5	4.5	1304
		51.2	51.5	268.9	264.9	8 1	86.9	90.9	51.5	51.4		
		53.4	53.5	270.2	266.5	8 11	88.1	92.4	49.4	49.4		
1125	4.8	50.5	51.1	264.6	260.6	8 3	91.4	95.0	54.7	54.9	5.5	1308
		52.6	53.1	266.0	262.2	8 13	92.7	96.5	52.5	52.9		
		54.8	55.2	267.3	263.8	8 23	94.1	98.2	50.3	50.9		
159	3.0	55.3	55.6	268.7	265.3	8 13	88.9	87.9	59.9	59.6	5.2	473
		57.5	57.6	270.0	266.8	8 23	86.1	85.3	57.7	57.5		
		59.6	59.7	271.2	268.3	8 33	87.3	90.7	55.5	55.5		
1148	5.3	42.1	42.9	263.8	258.4	8 24	89.7	94.4	46.6	46.7	4.5	1304
		44.3	44.9	265.3	261.2	8 34	90.9	96.0	44.4	44.7		
		46.4	46.9	266.7	262.0	8 44	92.2	97.7	42.2	42.7		
164	4.7	49.7	49.6	273.3	268.9	8 37	82.9	86.7	53.0	52.5	4.8	1323
		51.7	51.7	274.4	270.4	8 47	84.0	88.0	50.8	50.5		
		53.7	53.7	275.5	271.8	8 57	85.1	89.4	48.7	48.4		
1148	5.3	47.5	47.9	267.3	262.8	8 49	89.2	93.1	52.1	52.2	5.2	473
		49.7	50.0	268.7	264.4	8 59	90.4	94.6	49.9	50.1		
		51.8	52.0	269.9	266.0	9 9	91.7	96.2	47.8	48.1		
1163	4.3	39.9	41.1	271.2	265.2	9 0	82.4	87.5	44.3	43.9	4.8	1318
		42.1	42.1	272.4	266.8	9 10	83.4	88.9	42.2	41.8		
		44.2	44.1	273.5	268.3	9 20	84.4	90.3	40.0	39.8		
241	3.2	40.0	40.2	270.0	264.1	9 18	87.4	92.5	44.1	44.1	4.8	1323
		42.1	42.3	271.2	265.7	9 28	88.5	94.1	42.0	42.1		
		44.3	44.3	272.4	267.3	9 38	89.7	95.7	39.6	40.0		
1148	5.3	56.2	56.1	272.4	269.0	9 29	84.5	87.3	60.6	60.3	2.8	513
		58.3	58.2	273.6	270.5	9 39	85.7	88.7	58.5	58.2		
		60.5	60.2	274.7	271.9	9 49	86.8	90.2	56.3	56.2		
218	5.5	54.0	54.1	270.9	267.3	9 39	85.7	88.7	58.5	58.2	2.8	513
		56.2	56.2	272.1	268.7	9 49	86.8	90.2	56.3	56.2		
		58.4	58.2	273.3	270.2	9 59	88.0	91.6	54.2	54.1		
218	5.5	56.2	56.2	272.1	268.7	9 49	83.6	86.4	60.5	60.1	0.2	526
		58.4	58.2	273.3	270.2	9 59	84.7	87.8	58.4	58.1		
		60.5	60.3	274.4	271.6	10 9	85.8	89.2	56.2	56.0		

CATNO	MAG	WEST STAR				AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.		LAT 35		LAT 30	LAT 35	HRS	MIN	LAT 30	LAT 35	Z.D.			
251	1.9	48.3	48.8	265.5	261.2	10	0	90.1	93.9	52.7	52.9	4.5	507		
		50.4	50.9	266.9	262.8	10	10	91.4	95.5	50.6	50.9				
		52.6	52.9	268.2	264.4	10	20	92.7	97.1	48.4	48.8				
251	1.9	50.9	51.3	267.2	263.2	10	12	86.2	89.6	55.6	55.4	0.2	526		
		53.0	53.3	268.5	264.8	10	22	87.3	91.1	53.4	53.3				
		55.2	55.4	269.8	266.3	10	32	88.5	92.5	51.2	51.3				
277	3.7	44.5	45.3	263.2	258.3	10	23	91.0	95.3	49.0	49.2	2.8	513		
		46.6	47.3	264.7	260.1	10	33	92.3	96.9	46.8	47.2				
		48.8	49.3	266.1	261.8	10	43	93.6	98.6	44.6	45.2				
277	3.7	46.6	47.3	264.7	260.1	10	33	89.7	92.7	51.0	51.1	0.2	526		
		48.8	49.3	266.1	261.8	10	43	89.9	94.2	48.9	49.0				
		50.9	51.3	267.5	263.4	10	53	91.1	95.8	46.7	47.0				
294	3.7	42.7	42.7	273.6	267.7	10	46	83.3	88.3	45.0	44.6	4.8	522		
		42.9	42.7	274.6	269.2	10	56	84.3	89.7	42.8	42.6				
		45.1	44.8	275.7	270.7	11	6	85.3	91.1	40.7	40.5				
294	3.7	44.7	43.8	275.2	270.0	11	1	79.7	84.1	48.4	47.7	4.9	1383		
		46.1	45.8	276.2	271.4	11	11	80.6	85.4	46.3	45.7				
		48.3	47.0	277.2	272.7	11	21	81.5	86.7	44.1	43.6				
294	3.7	46.1	45.8	276.2	271.4	11	11	78.2	82.3	50.6	45.8	4.7	557		
		48.3	47.0	277.2	272.7	11	21	79.1	83.5	48.5	47.7				
		50.4	49.9	278.2	274.1	11	31	79.9	84.7	46.4	45.7				
277	3.7	57.0	57.0	271.0	267.8	11	21	84.6	87.3	61.2	60.9	4.3	564		
		59.1	59.1	272.2	269.2	11	31	85.7	88.7	59.1	58.8				
		61.3	61.1	273.4	270.7	11	41	86.9	90.2	56.9	56.8				
1200	5.0	57.2	57.1	273.8	270.5	11	54	80.2	82.9	61.7	60.9	2.8	618		
		59.4	59.1	274.9	271.9	12	4	81.2	84.2	59.5	58.9				
		61.5	61.1	276.0	273.3	12	14	82.3	85.5	57.4	56.9				
1244	4.6	38.4	38.2	275.4	269.1	12	18	81.8	87.2	42.9	42.4	2.3	578		
		40.6	40.3	276.4	270.5	12	28	82.7	88.6	40.7	40.3				
		42.7	42.3	277.4	271.9	12	38	83.7	90.0	38.6	38.3				
337	4.3	51.9	52.9	261.4	257.6	12	26	92.6	95.9	56.4	56.8	4.5	613		
		54.7	54.8	262.9	259.3	12	38	94.0	97.5	54.3	54.8				
		56.2	56.8	264.3	261.1	12	48	95.3	99.2	52.1	52.8				
1239	5.2	49.3	49.1	274.4	270.1	12	47	79.9	83.6	53.8	53.1	5.2	1440		
		51.5	51.2	275.5	271.5	12	57	80.9	84.9	51.7	51.0				
		53.6	53.2	276.6	272.9	13	7	81.9	86.2	49.5	49.0				
379	3.6	41.9	42.3	261.8	256.4	13	1	91.5	96.2	46.4	46.7	3.8	609		
		44.0	44.3	263.4	258.3	13	11	92.8	97.9	44.2	44.7				
		46.2	46.9	264.9	260.2	13	21	94.2	99.7	42.0	42.6				
367	3.1	47.7	47.4	276.1	271.6	13	19	80.6	84.5	51.9	51.2	3.2	641		
		49.9	49.4	277.2	272.9	13	29	81.5	85.8	49.7	49.2				
		52.0	51.5	278.2	274.2	13	39	82.5	87.1	47.6	47.1				
384	3.7	44.4	44.3	274.0	268.8	13	34	82.0	86.4	48.7	48.2	3.2	641		
		46.6	46.4	275.1	270.3	13	44	83.0	87.8	46.5	46.1				
		48.7	48.4	276.1	271.7	13	54	84.0	89.2	44.4	44.1				
405	5.1	41.5	41.6	272.1	266.5	13	47	83.3	88.2	45.9	45.5	3.2	641		
		43.7	43.6	273.2	268.0	13	57	84.3	89.6	43.7	43.5				
		45.9	45.7	274.4	269.5	14	7	85.4	91.0	41.6	41.4				
405	5.1	45.6	45.5	274.2	269.3	14	6	79.7	83.9	50.1	49.4	5.5	1468		
		47.8	47.5	275.3	270.8	14	16	80.7	85.2	48.0	47.3				
		49.9	49.6	276.4	272.2	14	26	81.6	86.5	45.8	45.3				
423	3.4	46.2	47.1	262.8	258.1	14	25	92.6	96.7	50.4	50.8	4.7	1468		
		48.3	49.0	264.3	259.9	14	35	94.0	98.3	48.3	48.8				
		50.5	51.0	265.7	261.6	14	45	95.4	100.1	46.1	46.8				
422	2.6	46.7	46.9	270.8	266.1	14	37	85.2	89.3	51.0	50.7	3.9	690		
		48.9	48.8	272.0	267.7	14	47	86.4	90.7	48.8	48.7				
		51.0	50.9	273.2	269.1	14	57	87.5	92.2	46.6	46.6				
423	3.4	51.9	51.4	265.9	261.9	14	47	87.9	91.3	55.3	55.2	4.4	1491		
		53.1	53.4	267.3	263.6	14	57	89.1	92.8	53.1	53.2				
		55.2	55.5	268.6	265.1	15	7	90.3	94.3	50.9	51.1				
1304	4.5	45.7	45.9	265.8	265.0	15	6	87.5	91.7	49.9	49.9	4.3	703		
		47.9	48.0	271.1	266.6	15	16	88.7	93.2	47.7	47.8				
		50.0	50.0	272.3	268.1	15	26	89.9	94.8	45.6	45.8				
423	3.4	57.4	57.5	269.9	266.7	15	17	84.0	86.7	61.7	61.3	3.8	743		
		59.5	59.6	271.1	268.2	15	27	85.1	88.1	59.5	59.2				
		61.7	61.6	272.3	269.6	15	37	86.3	89.5	57.4	57.2				
473	5.2	40.8	41.6	263.8	258.1	15	27	90.1	95.0	45.4	45.6	4.3	703		
		42.9	43.6	265.2	260.0	15	37	91.3	96.6	43.2	43.5				
		45.1	45.6	266.7	261.7	15	47	92.7	98.3	41.0	41.5				

LAT	MAG	WEST STAR		AZ		LON		AZ		EAST STAR		MAG	CATNO
		LAT 30	LAT 35	LAT 30	LAT 35	HR	MIN	LAT 30	LAT 35	LAT 30	LAT 35		
1328	5.5	52.9	53.2	267.5	267.7	15	38	86.4	89.6	57.1	57.0	3.8	743
		55.0	55.3	268.9	265.3	15	48	87.6	91.1	55.0	54.9		
		57.2	57.3	270.0	266.8	15	58	88.8	92.6	52.8	52.9		
1323	4.9	44.7	44.0	272.6	267.4	15	49	87.5	86.9	48.5	48.0	4.6	1508
		46.1	46.7	273.7	268.9	15	59	83.5	88.3	46.3	46.0		
		48.3	49.1	274.8	273.3	16	9	84.5	89.7	44.2	43.9		
1304	4.5	57.6	57.2	276.2	273.0	16	1	87.5	83.1	62.1	61.4	4.8	1535
		59.7	59.2	277.3	274.4	16	11	81.5	84.4	60.0	59.4		
		61.9	61.3	278.4	275.7	16	21	82.6	85.8	57.8	57.3		
1323	4.8	49.2	48.9	275.2	273.9	16	13	87.1	83.8	53.6	52.9	5.5	760
		51.3	50.9	276.3	272.3	16	23	81.1	85.1	51.5	50.9		
		53.5	53.0	277.3	273.6	16	33	82.1	86.4	49.3	48.8		
1326	5.0	55.5	56.4	261.7	259.4	16	25	94.2	97.0	60.1	60.6	4.0	768
		57.7	58.4	263.1	260.0	16	35	95.5	98.6	57.9	58.5		
		59.9	60.4	264.5	261.7	16	45	96.9	100.2	55.8	56.5		
507	4.5	41.4	42.2	262.6	257.1	16	40	91.5	96.3	45.8	46.1	3.7	752
		43.5	44.3	264.1	259.0	16	50	92.8	98.0	43.6	44.1		
		45.7	46.3	265.6	260.9	17	0	94.2	99.7	41.5	42.1		
1340	5.2	47.4	50.3	267.6	258.4	16	51	91.9	95.5	53.8	54.1	3.9	774
		51.6	52.3	269.0	267.1	17	1	93.2	97.1	51.6	52.0		
		53.7	54.3	269.4	261.8	17	11	94.5	98.8	49.4	50.0		
513	2.3	44.3	44.9	266.2	261.1	17	3	87.3	91.7	48.8	48.7	4.8	1539
		46.5	46.9	267.5	262.8	17	13	88.4	93.2	46.6	46.7		
		48.6	48.9	268.8	264.5	17	23	89.7	94.7	44.5	44.6		
526	2.2	41.8	42.4	265.8	267.3	17	14	88.6	93.3	46.4	46.5	4.8	1535
		44.0	44.5	267.2	262.1	17	24	89.8	94.9	44.2	44.4		
		46.2	46.5	268.5	263.8	17	34	91.1	96.6	42.1	42.4		
513	2.3	47.3	49.6	269.2	265.7	17	26	86.6	93.2	53.8	53.6	4.3	804
		51.5	51.6	270.5	266.5	17	36	87.7	91.7	51.6	51.6		
		53.6	53.6	271.7	268.0	17	46	88.9	93.2	49.4	49.5		
1383	4.9	38.3	38.1	276.0	269.6	17	37	80.0	85.4	42.7	42.1	5.2	788
		40.5	40.1	276.9	271.0	17	47	80.9	86.7	40.6	40.1		
		42.6	42.2	277.8	272.4	17	57	81.7	88.0	38.5	38.6		
522	4.8	48.6	48.1	278.4	274.0	17	59	78.7	82.5	53.0	52.2	5.1	823
		50.8	50.1	279.4	275.3	18	0	79.7	83.8	50.9	50.2		
		52.9	52.2	280.3	276.5	18	10	80.6	85.0	48.8	48.2		
1396	5.0	44.2	43.9	276.0	279.9	18	26	81.5	86.0	48.5	48.0	4.0	831
		46.4	46.7	277.0	272.2	18	36	82.5	87.3	46.4	45.9		
		48.5	48.0	278.0	273.6	18	46	83.5	88.7	44.2	43.9		
519	2.3	47.4	40.8	268.6	262.8	19	26	84.2	89.2	45.1	44.8	3.7	862
		42.6	42.8	269.9	264.5	19	36	85.3	90.7	42.9	42.8		
		44.7	44.9	271.1	266.1	19	46	86.3	92.2	40.8	40.7		
584	4.3	53.5	53.6	271.2	267.5	19	39	85.4	88.5	57.8	57.5	5.2	898
		55.7	55.6	272.4	265.7	19	49	86.5	89.9	55.6	55.5		
		57.8	57.7	273.6	270.5	19	59	87.7	91.4	53.5	53.4		
584	4.3	55.7	55.6	272.4	265.0	19	49	82.9	85.8	59.9	59.5	4.9	1004
		57.8	57.7	273.6	270.5	19	59	84.0	87.1	57.8	57.4		
		60.0	59.7	274.8	271.9	20	9	85.1	88.5	55.6	55.4		
613	4.5	53.4	54.0	265.5	261.8	20	7	90.4	93.6	57.9	56.1	2.9	7
		55.6	56.0	266.8	263.5	20	17	91.7	95.1	55.7	56.0		
		57.7	58.0	268.2	265.0	20	27	93.0	96.7	53.6	54.0		
613	4.5	56.9	57.2	267.6	264.4	20	23	86.2	89.0	61.4	61.2	5.2	1020
		59.0	59.3	268.9	265.9	20	33	87.4	90.4	59.2	59.1		
		61.2	61.3	270.2	267.4	20	43	88.6	91.8	57.1	57.1		
679	3.8	57.8	57.5	274.9	271.7	20	34	80.7	83.4	62.1	61.5	4.9	1032
		60.0	59.6	276.0	273.1	20	44	81.8	84.7	60.0	59.4		
		62.1	61.6	277.1	274.5	20	54	82.9	86.0	57.9	57.4		
1454	5.2	51.7	51.9	270.0	266.1	21	2	83.7	87.1	56.1	55.7	4.9	1032
		53.9	53.9	271.3	267.6	21	12	84.8	88.5	54.0	53.7		
		56.0	56.7	272.5	269.1	21	22	85.9	89.9	51.8	51.6		
1459	4.7	46.7	46.7	264.6	259.9	21	13	92.4	96.5	50.6	51.0	5.2	1420
		48.2	48.7	266.0	261.6	21	23	93.7	98.1	48.4	48.9		
		50.4	50.8	267.4	263.3	21	33	95.2	99.8	46.2	46.9		
1454	5.2	56.5	56.4	272.7	269.4	21	24	81.7	84.5	60.8	60.2	2.7	66
		58.6	58.4	273.9	270.8	21	34	82.7	85.8	58.6	58.1		
		60.8	60.5	275.0	272.2	21	44	83.8	87.2	56.5	56.1		
703	4.3	42.7	42.4	267.9	262.4	21	47	88.9	93.6	46.4	46.5	4.9	1032
		44.2	44.4	269.2	264.1	21	57	90.1	95.2	44.3	44.5		
		46.3	46.5	270.5	265.7	22	7	91.4	96.9	42.1	42.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.				HRS	MIN			Z. D.			
		LAT 30	LAT 35	LAT 30	LAT 35			LAT 30	LAT 35	LAT 30	LAT 35		
691	3.9	49.7	49.6	274.1	269.9	22	3	81.5	85.2	54.1	53.5	2.2	74
		51.9	51.6	275.2	271.3	22	13	82.6	86.5	51.9	51.5		
		54.1	53.7	276.3	272.7	22	23	83.6	87.8	49.8	45.4		
713	4.3	47.6	47.7	271.2	266.7	22	13	82.6	86.5	51.9	51.5	2.2	74
		49.8	49.8	272.4	269.2	22	23	83.6	87.8	49.8	45.4		
		51.9	51.8	273.6	269.6	22	33	84.6	89.2	47.6	47.4		
722	4.3	51.3	51.2	273.2	269.2	22	30	82.7	86.2	55.6	55.1	5.4	89
		53.5	53.2	274.4	270.6	22	40	83.8	87.5	53.5	53.1		
		55.6	55.3	275.5	272.0	22	50	84.9	88.9	51.3	51.1		
752	3.7	39.9	39.7	264.1	258.1	22	44	90.9	96.1	43.5	43.8	2.7	66
		41.1	41.7	265.6	259.9	22	54	92.2	97.8	41.3	41.8		
		43.3	43.9	267.0	261.7	23	4	93.6	99.6	39.2	39.8		
1528	4.6	46.2	45.8	276.5	271.6	22	56	78.0	82.1	50.6	45.8	3.7	100
		48.3	47.9	277.5	273.3	23	6	78.8	83.3	48.5	47.7		
		50.5	49.9	278.5	274.3	23	16	79.7	84.5	46.4	45.7		
1513	4.5	49.9	50.2	268.0	263.8	23	13	86.4	90.0	54.3	54.1	4.5	114
		52.0	52.3	269.3	265.4	23	23	87.5	91.4	52.1	52.1		
		54.2	54.3	270.6	267.0	23	33	88.7	92.9	50.0	50.0		
741	2.3	54.5	55.4	261.3	257.8	23	25	92.8	95.8	58.8	55.2	4.3	125
		56.6	57.4	262.7	259.5	23	35	94.1	97.4	56.6	57.1		
		58.8	59.4	264.1	261.2	23	45	95.5	99.0	54.5	55.1		
752	3.7	52.8	52.7	272.5	268.7	23	48	81.7	85.0	57.2	56.7	4.5	1112
		54.9	54.8	273.7	270.2	23	58	82.8	86.3	55.1	54.6		
		57.1	56.9	274.9	271.6	24	8	83.9	87.7	53.0	52.6		

CATNO	MAG	WEST STAR Z. D.		AZ		LST		AZ		EAST STAR Z. D.		MAG	CATNO
		LAT 35	LAT 40	LAT 35	LAT 40	HRS	MIN	LAT 35	LAT 40	LAT 35	LAT 40		
1539	4.8	45.6	46.2	266.0	261.2	23	57	86.5	90.8	49.9	45.7	3.8	136
		47.7	48.1	267.6	263.0	0	7	87.9	92.4	47.8	47.8		
		49.7	50.1	269.0	264.8	0	17	89.3	94.1	45.8	45.9		
1539	4.8	45.8	46.4	266.2	261.4	23	58	86.3	90.5	50.2	50.0	3.0	139
		47.9	48.3	267.7	263.2	0	8	87.7	92.2	48.1	48.1		
		49.9	50.2	269.2	265.0	0	18	89.1	93.9	46.1	46.2		
1539	4.9	46.9	46.5	266.3	261.6	23	59	86.3	90.5	50.3	50.2	3.8	142
		48.1	48.4	267.9	263.4	7	9	87.7	92.1	48.3	48.3		
		50.1	50.4	269.3	265.2	0	19	89.0	93.8	46.3	46.4		
1539	4.8	49.1	48.4	267.9	263.4	0	9	87.8	91.7	52.4	52.4	4.5	1112
		50.1	50.4	269.2	265.2	0	19	89.2	93.3	50.3	50.4		
		52.2	52.3	270.8	266.9	0	29	90.6	95.1	48.3	48.5		
778	4.5	52.3	53.1	261.8	258.1	0	19	91.5	94.8	56.3	56.6	3.9	162
		54.3	55.0	263.4	259.9	0	29	93.0	96.5	54.3	54.7		
		56.3	56.9	265.0	261.7	0	39	94.5	98.3	52.2	52.8		
1541	4.5	53.3	53.9	264.2	261.5	0	30	92.2	95.4	57.2	57.6	1.1	168
		55.3	55.8	265.7	262.3	0	40	93.7	97.2	55.2	55.7		
		57.4	57.7	267.3	264.1	0	50	95.3	99.0	53.2	53.8		
778	4.5	56.9	57.5	265.5	262.3	0	42	90.9	93.6	61.2	61.4	4.7	1140
		59.0	59.4	267.0	264.0	0	52	92.3	95.3	59.2	59.5		
		61.0	61.3	268.5	265.7	1	2	93.8	97.0	57.1	57.6		
864	4.3	59.1	50.5	267.2	263.1	0	59	87.2	90.8	54.3	54.2	4.7	184
		52.1	52.4	268.7	264.9	1	9	88.5	92.4	52.3	52.3		
		54.2	54.3	270.1	266.5	1	19	90.0	94.1	50.2	50.4		
874	4.3	53.8	53.9	269.0	266.2	1	17	85.4	88.5	57.9	57.6	3.6	211
		55.8	55.8	271.3	267.3	1	27	86.7	90.1	55.9	55.7		
		57.9	57.8	272.7	267.5	1	37	88.1	91.6	53.8	53.8		
823	5.1	49.3	49.0	275.7	271.4	1	40	79.3	83.0	53.5	52.7	4.5	1158
		51.4	51.9	277.0	272.9	1	50	80.5	84.5	51.5	50.8		
		53.4	52.9	278.2	274.4	2	0	81.6	85.9	49.4	48.9		
1570	5.3	57.8	57.7	271.9	269.9	1	51	84.0	86.7	61.9	61.5	4.1	1173
		59.8	59.6	273.3	271.4	2	1	85.3	88.3	59.8	59.6		
		61.8	61.6	274.7	272.1	2	11	86.7	89.8	57.6	57.6		
870	2.5	38.7	38.8	272.4	266.2	2	3	84.0	89.4	43.0	42.7	1.8	202
		40.8	41.7	273.7	267.9	2	13	85.2	91.0	40.9	40.7		
		42.8	42.6	275.0	269.6	2	23	86.4	92.6	38.9	38.8		
870	2.5	43.6	43.4	275.5	270.2	2	27	79.9	84.4	47.7	47.0	4.5	1166
		45.7	45.3	276.7	271.8	2	37	81.0	85.9	45.7	45.1		
		47.7	47.2	277.0	273.3	2	47	82.1	87.4	43.6	43.2		
971	2.5	51.7	52.6	261.5	257.7	2	38	93.2	96.6	56.0	56.4	1.9	251
		53.8	54.5	263.2	259.6	2	48	94.8	98.3	54.0	54.5		
		55.8	56.4	264.8	261.4	2	58	96.3	100.2	51.9	52.6		
887	4.7	46.5	46.7	270.6	265.8	2	49	84.3	88.4	50.8	50.5	3.2	254
		48.5	48.6	272.0	267.5	2	59	85.6	90.0	48.8	48.6		
		50.6	50.5	273.3	269.2	3	9	86.9	91.7	46.7	46.7		
881	4.6	46.1	46.2	269.9	265.0	2	51	84.6	89.8	50.4	50.1	3.2	254
		48.1	48.2	271.2	266.7	3	1	85.9	90.4	48.4	48.2		
		50.2	50.1	272.6	268.4	3	11	87.2	92.0	46.3	46.3		
862	2.7	54.4	53.9	277.0	273.4	2	59	77.3	80.4	58.5	57.5	4.2	1156
		56.4	55.9	278.2	274.9	3	9	78.5	81.8	56.5	55.6		
		58.5	57.8	279.4	276.4	3	19	79.6	83.2	54.5	53.7		
1629	4.9	42.6	42.8	270.1	264.7	3	10	87.1	91.8	46.5	46.5	3.2	254
		44.6	44.7	271.5	266.4	3	20	88.4	93.5	44.5	44.6		
		46.7	46.6	272.9	268.1	3	30	89.8	95.3	42.4	42.6		
897	4.7	52.9	52.6	274.8	271.0	3	20	81.4	84.7	57.1	56.5	3.7	294
		54.9	54.5	276.1	272.5	3	30	82.7	86.2	55.1	54.6		
		56.9	56.4	277.3	274.1	3	40	83.9	87.7	53.1	52.7		
881	4.6	52.4	52.2	274.0	271.2	3	22	81.7	85.0	56.7	56.1	3.7	294
		54.5	54.2	275.3	271.8	3	32	82.9	86.5	54.7	54.2		
		56.5	56.1	276.6	273.3	3	42	84.2	88.0	52.6	52.3		
1629	4.8	47.3	47.2	273.2	268.6	3	33	81.3	85.3	51.7	51.1	4.2	1156
		49.3	49.1	274.6	270.2	3	43	82.5	86.8	49.6	49.2		
		51.4	51.0	275.9	271.8	3	53	83.7	88.3	47.6	47.3		
27	4.3	39.8	40.3	266.6	260.6	3	44	90.4	95.6	43.7	44.0	5.2	1182
		41.8	42.2	268.1	262.6	3	54	91.9	97.4	41.7	42.1		
		43.9	44.1	269.6	264.4	4	4	93.4	99.4	39.6	40.2		
1629	4.8	51.8	51.4	276.1	272.1	3	55	78.3	81.7	56.0	55.1	5.2	1217
		53.8	53.3	277.3	273.7	4	5	79.5	83.1	54.0	53.2		
		55.8	55.2	278.6	275.2	4	15	80.6	84.6	52.0	51.3		

CATNO	MAG	WEST STAR		AZ		LST	AZ		EAST STAR		MAG	CATNO	
		Z. D.		LAT 35	LAT 40		LAT 35	LAT 40	LAT 35	LAT 40			Z. D.
		LAT 35	LAT 40	LAT 35	LAT 40	HRS	MIN	LAT 35	LAT 40	LAT 35	LAT 40		
27	4.3	44.3	44.5	269.9	264.8	4	6	83.3	87.7	48.6	48.2	5.0	1207
		46.3	46.4	271.3	266.5	4	16	84.5	89.3	46.5	46.3		
		48.4	48.3	272.6	268.2	4	26	85.8	90.9	44.5	44.4		
1004	4.9	54.9	55.0	271.2	267.7	4	16	84.1	87.1	59.1	58.7	4.7	1228
		57.0	56.9	272.6	269.3	4	26	85.4	88.7	57.0	56.8		
		59.0	58.8	273.9	270.9	4	36	86.7	90.3	55.0	54.9		
1004	4.9	57.4	57.3	272.9	269.7	4	28	81.7	84.4	61.6	61.0	5.2	1239
		59.4	59.2	274.2	271.2	4	38	83.0	85.9	59.6	59.1		
		61.5	61.1	275.6	272.8	4	48	84.3	87.5	57.6	57.2		
45	4.7	43.0	42.9	273.8	269.4	4	38	83.4	88.0	47.3	46.9	5.2	1217
		45.1	44.8	275.1	270.1	4	48	84.6	89.6	45.3	45.0		
		47.1	46.7	276.3	271.6	4	58	85.9	91.2	43.2	43.1		
27	4.3	53.7	53.3	276.1	272.4	4	52	78.5	81.6	58.0	57.1	4.6	1244
		55.7	55.2	277.3	273.9	5	2	79.7	83.1	55.9	55.2		
		57.8	57.1	278.6	275.4	5	12	80.9	84.5	53.9	53.3		
66	2.7	44.6	45.3	264.5	259.6	5	7	91.1	95.5	48.6	48.9	4.7	1228
		46.7	47.2	266.1	261.5	5	17	92.6	97.3	46.6	47.0		
		48.7	49.1	267.7	263.3	5	27	94.2	99.1	44.5	45.1		
66	2.7	47.1	47.6	266.5	261.9	5	19	88.4	92.4	51.2	51.3	5.2	1239
		49.1	49.5	268.0	263.7	5	29	89.8	94.1	49.2	49.4		
		51.2	51.4	269.5	265.4	5	39	91.3	95.9	47.2	47.5		
74	2.2	45.7	46.0	269.6	264.8	5	31	83.2	87.4	50.1	49.7	4.6	1244
		47.8	47.9	271.0	266.5	5	41	84.4	89.9	48.0	47.8		
		49.8	49.8	272.4	268.2	5	51	85.7	90.5	46.0	45.8		
74	2.2	48.6	48.6	271.6	267.2	5	45	85.0	88.9	52.6	52.3	3.1	367
		50.6	50.5	273.0	269.9	5	55	86.4	90.5	50.6	50.4		
		52.7	52.5	274.3	270.5	6	5	87.7	92.1	48.5	48.5		
74	2.2	51.9	51.7	273.8	269.8	6	1	83.5	86.9	55.8	55.4	3.7	384
		53.9	53.6	275.1	271.4	6	11	84.8	88.5	53.7	53.5		
		55.9	55.5	276.4	273.0	6	21	86.1	90.1	51.7	51.5		
1089	5.0	42.0	42.9	262.8	257.4	6	15	89.1	93.8	46.5	46.6	3.1	367
		44.0	44.7	264.5	259.4	6	25	90.5	95.6	44.4	44.7		
		46.1	46.6	266.1	261.4	6	35	92.0	97.4	42.4	42.8		
1089	5.0	45.3	45.9	265.5	260.6	6	31	87.5	91.7	49.7	49.6	3.7	384
		47.3	47.8	267.0	262.5	6	41	88.8	93.4	47.6	47.7		
		49.3	49.7	268.5	264.3	6	51	90.2	95.1	45.6	45.8		
1089	5.0	48.1	48.5	267.6	263.2	6	45	86.0	89.9	52.4	52.2	5.1	405
		50.2	50.4	269.1	265.7	6	55	87.3	91.5	50.3	50.3		
		52.2	52.3	270.6	266.7	7	5	88.7	93.2	48.3	48.4		
114	4.5	52.5	52.8	268.9	265.0	7	0	86.8	90.0	56.8	56.7	2.6	422
		54.5	54.7	270.3	266.8	7	10	88.1	91.7	54.8	54.8		
		56.6	56.6	271.7	268.4	7	20	89.5	93.3	52.7	52.9		
114	4.5	56.2	56.2	271.4	268.1	7	18	84.9	87.8	60.2	59.9	4.5	1304
		58.2	58.1	272.8	269.7	7	28	86.3	89.4	58.2	58.0		
		60.3	60.0	274.2	271.3	7	38	87.6	91.0	56.1	56.1		
164	3.6	44.8	45.7	262.1	257.2	7	38	92.2	96.5	49.1	49.4	2.6	422
		46.8	47.6	263.8	259.2	7	48	93.7	98.3	47.0	47.5		
		48.9	49.5	265.4	261.1	7	58	95.3	100.2	45.0	45.6		
164	3.6	48.5	49.1	265.1	260.7	7	56	90.2	94.0	52.5	52.6	4.5	1304
		50.5	51.0	266.7	262.6	8	6	91.6	95.7	50.4	50.7		
		52.6	52.9	268.2	264.4	8	16	93.1	97.5	48.4	48.8		
1135	5.1	46.0	46.9	262.6	257.9	8	6	91.6	95.7	50.4	50.7	4.5	1304
		48.1	48.8	264.3	259.9	8	16	93.1	97.5	48.4	48.8		
		50.1	50.7	265.9	261.7	8	26	94.7	99.4	46.3	46.9		
168	1.1	53.7	54.2	265.1	261.5	8	22	89.1	92.3	57.7	57.8	5.2	473
		55.7	56.1	266.6	263.3	8	32	90.5	93.9	55.7	55.9		
		57.7	58.0	268.1	265.0	8	42	92.0	95.7	53.6	54.0		
184	4.7	48.4	48.7	269.8	264.4	8	36	86.6	90.4	52.7	52.6	4.8	1323
		50.5	50.6	271.2	266.1	8	46	87.9	92.0	50.7	50.7		
		52.5	52.5	271.6	267.8	8	56	89.3	93.7	48.6	48.8		
1148	5.3	47.9	48.8	262.8	258.4	8	49	93.1	96.9	52.2	52.6	5.2	473
		50.0	50.6	264.4	260.3	8	59	94.6	98.7	50.1	50.7		
		52.0	52.5	266.0	262.2	9	9	96.2	100.6	48.1	48.8		
1163	4.3	39.9	40.5	265.0	259.2	9	59	87.4	92.6	44.1	44.1	4.8	1316
		41.9	42.4	266.7	261.2	9	9	88.8	94.3	42.0	42.2		
		43.9	44.3	268.2	263.0	9	19	90.2	96.1	40.0	40.3		
1158	4.5	42.7	42.6	274.3	268.9	9	11	83.1	87.8	46.9	46.5	5.1	1332
		44.7	44.5	275.6	270.5	9	21	84.3	89.3	44.9	44.6		
		46.8	46.4	276.8	272.1	9	31	85.5	90.9	42.8	42.7		

CATNO	MAG	WEST STAR				LST HRS MIN	AZ		EAST STAR				MAG	CATNO
		Z.D.		AZ			Z.D.							
		LAT 35	LAT 40	LAT 35	LAT 40		LAT 35	LAT 40	LAT 35	LAT 40				
1158	4.5	44.7	44.5	275.6	270.5	9	21	81.4	85.8	48.9	48.3	4.3	492	
		46.8	46.4	276.8	272.1	9	31	82.6	87.3	46.8	46.4			
		49.8	48.3	278.0	273.6	9	41	83.8	88.9	44.8	44.5			
254	3.2	39.0	38.6	267.0	260.7	9	34	85.9	91.4	42.2	42.1	5.1	1332	
		40.1	40.5	268.5	262.6	9	44	87.2	93.1	40.2	40.2			
		42.1	42.4	270.0	264.5	9	54	88.5	94.9	38.1	38.3			
254	3.2	40.1	40.5	268.5	262.6	9	44	84.2	89.4	44.2	43.9	4.3	492	
		42.1	42.4	270.0	264.5	9	54	85.4	91.0	42.1	42.0			
		44.2	44.3	271.4	266.2	10	4	86.7	92.6	40.1	40.1			
1163	4.3	51.1	51.0	273.1	269.1	9	54	81.6	85.1	55.2	54.6	4.8	522	
		53.2	52.9	274.5	270.7	10	4	82.8	86.6	53.2	52.7			
		55.2	54.8	275.8	272.3	10	14	84.1	88.1	51.1	50.8			
1169	5.1	56.6	57.5	261.4	258.2	10	6	94.4	97.2	60.6	61.1	5.3	1372	
		58.7	59.4	263.0	260.0	10	16	56.0	99.0	58.5	55.2			
		60.7	61.3	264.5	261.8	10	26	97.6	100.8	56.5	57.3			
254	3.2	46.6	46.6	273.0	268.3	10	16	84.3	88.4	50.7	50.4	4.6	522	
		48.7	48.5	274.3	269.9	10	26	85.6	90.0	48.7	48.5			
		50.7	50.4	275.6	271.5	10	36	86.9	91.7	46.7	46.6			
254	3.2	49.7	49.5	275.0	270.7	10	31	80.5	84.2	53.8	53.1	4.9	1383	
		51.7	51.4	276.2	272.3	10	41	81.7	85.6	51.8	51.2			
		53.8	53.3	277.5	273.8	10	51	82.9	87.2	49.7	49.3			
254	3.2	51.7	51.4	276.2	272.3	10	41	78.7	82.1	55.8	55.0	4.7	557	
		53.8	53.3	277.5	273.8	10	51	79.9	83.6	53.8	53.1			
		55.8	55.2	278.7	275.3	11	1	81.1	85.0	51.8	51.2			
1196	4.2	42.4	42.4	273.1	267.6	10	51	79.9	84.7	46.7	46.0	4.5	1380	
		44.5	44.3	274.4	269.3	11	1	81.0	86.1	44.7	44.1			
		46.5	46.2	275.6	270.9	11	11	82.2	87.6	42.7	42.2			
1192	5.2	53.1	52.7	275.8	272.0	11	4	78.2	81.4	57.4	56.5	2.3	576	
		55.1	54.6	277.0	273.5	11	14	79.3	82.8	55.4	54.6			
		57.1	56.5	278.3	275.0	11	24	80.5	84.2	53.4	52.7			
294	3.7	46.4	46.5	271.8	267.0	11	14	84.8	88.9	50.6	50.4	5.0	1396	
		48.5	48.4	273.1	268.7	11	24	86.0	90.5	48.6	48.4			
		50.5	50.3	274.5	270.3	11	34	87.4	92.1	46.5	46.5			
295	1.2	46.8	46.3	277.5	272.8	11	24	78.5	82.6	51.0	50.2	3.7	572	
		48.8	48.2	278.7	274.3	11	34	79.6	84.0	49.0	48.3			
		50.8	50.2	279.8	275.7	11	44	80.8	85.4	47.0	46.4			
294	3.7	51.1	50.9	274.8	270.8	11	37	79.2	82.6	55.3	54.5	4.2	593	
		53.2	52.8	276.1	272.4	11	47	80.3	84.1	53.3	52.6			
		55.2	54.7	277.4	273.9	11	57	81.5	85.6	51.3	50.7			
328	4.2	40.5	40.3	275.0	269.1	11	56	82.1	87.2	44.6	44.1	3.7	572	
		42.6	42.3	276.2	270.7	12	6	83.3	88.8	42.5	42.2			
		44.6	44.2	277.4	272.3	12	16	84.5	90.3	40.5	40.3			
294	3.7	57.2	56.6	278.6	275.4	12	7	78.7	81.4	61.2	60.3	5.2	1440	
		59.2	58.5	279.9	276.9	12	17	79.9	82.9	59.2	58.4			
		61.3	60.4	281.1	278.3	12	27	81.1	84.3	57.1	56.5			
1244	4.6	39.2	38.6	269.1	262.8	12	18	87.2	92.7	42.4	42.4	2.3	576	
		41.3	40.5	270.5	264.7	12	28	88.6	94.4	40.3	40.5			
		42.3	42.4	271.9	266.4	12	38	90.0	96.3	38.3	38.6			
1244	4.6	40.5	40.7	270.7	264.8	12	29	85.5	90.5	44.8	44.6	4.2	593	
		42.5	42.6	272.1	266.6	12	39	86.7	92.2	42.7	42.7			
		44.6	44.5	273.4	268.3	12	49	88.1	93.9	40.7	40.8			
1239	5.2	49.9	49.1	270.0	265.6	12	46	83.5	87.2	53.3	52.9	5.2	1440	
		51.9	51.0	271.4	267.3	12	56	84.7	88.8	51.3	51.0			
		53.9	52.9	272.8	269.0	13	6	86.0	90.4	49.2	49.1			
367	3.1	44.9	45.2	269.9	264.9	13	7	86.2	90.5	49.0	48.9	5.2	1440	
		47.9	47.1	271.3	266.6	13	17	87.5	92.2	47.6	46.9			
		49.9	49.0	272.6	268.3	13	27	88.9	93.9	44.9	45.0			
367	3.1	47.2	47.3	271.4	266.8	13	18	84.4	88.4	51.4	51.1	3.2	641	
		49.2	49.2	272.8	268.5	13	28	85.7	90.0	49.4	49.2			
		51.3	51.1	274.1	270.1	13	38	87.0	91.6	47.4	47.3			
364	3.7	44.1	44.4	268.7	263.6	13	33	86.3	90.8	48.4	48.2	3.2	641	
		46.1	46.3	270.2	265.4	13	43	87.6	92.4	46.3	46.3			
		48.2	48.3	271.6	267.1	13	53	89.0	94.1	44.3	44.4			
371	4.1	50.5	50.1	276.8	272.7	13	46	77.0	80.6	54.7	53.8	3.8	661	
		52.6	52.0	278.1	274.2	13	56	78.2	82.0	52.7	51.9			
		54.6	53.9	279.3	275.7	14	6	79.3	83.4	50.7	50.0			
379	3.6	57.6	57.9	268.6	265.5	14	14	86.7	89.3	62.0	61.8	4.4	1491	
		59.7	59.8	270.0	267.1	14	24	88.0	90.9	59.9	59.9			
		61.7	61.7	271.5	268.8	14	34	89.4	92.6	57.9	58.0			

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO	
		Z.D.		AZ			Z.D.		AZ				
		LAT 35	LAT 40	LAT 35	LAT 40	HRS	MIN	LAT 35	LAT 40	LAT 35	LAT 40		
422	2.6	46.6	47.1	266.0	261.3	14	36	89.2	93.2	50.9	51.0	3.9	690
		48.6	49.0	267.5	263.1	14	46	90.6	94.9	48.9	49.1		
		50.7	50.9	269.0	264.9	14	56	92.1	96.7	46.8	47.2		
423	3.4	51.2	52.1	261.8	257.9	14	46	91.2	94.6	55.4	55.7	4.4	1491
		53.2	54.0	263.4	259.9	14	56	92.7	96.3	53.4	53.8		
		55.3	55.9	265.0	261.6	15	6	94.2	98.1	51.3	51.9		
405	5.1	56.3	55.9	276.5	273.2	14	59	77.6	80.4	60.7	59.7	5.5	1515
		58.3	57.8	277.8	274.7	15	9	79.8	81.9	58.7	57.8		
		60.4	59.7	279.0	276.2	15	19	80.0	83.3	56.7	55.9		
423	3.4	57.3	57.8	266.5	263.4	15	16	86.6	89.3	61.5	61.3	3.8	743
		59.4	59.7	268.0	265.1	15	26	87.9	90.9	59.4	59.4		
		61.4	61.6	269.5	266.8	15	36	89.3	92.5	57.4	57.5		
444	2.2	53.5	54.4	262.4	258.8	15	39	93.5	93.6	57.8	58.0	4.5	1513
		55.5	56.2	264.0	261.6	15	40	91.9	95.3	55.8	56.1		
		57.6	58.1	265.5	263.4	15	50	93.4	97.1	53.8	54.2		
1318	4.3	43.9	43.9	272.5	267.2	15	43	81.9	86.4	48.3	47.8	3.2	732
		45.9	45.8	273.8	269.9	15	53	83.1	87.0	46.2	45.8		
		48.0	47.7	275.1	270.5	16	3	84.3	89.4	44.2	43.9		
1323	4.9	45.2	45.6	268.2	263.4	15	55	84.4	88.7	49.4	49.1	5.5	1515
		47.2	47.5	269.7	265.1	16	5	85.7	90.2	47.3	47.2		
		49.3	49.4	271.2	266.9	16	15	87.0	92.0	45.3	45.2		
473	5.2	49.3	49.9	264.7	260.5	16	5	93.9	94.6	53.3	53.5	3.7	752
		51.3	51.8	266.3	262.3	16	15	92.4	96.3	51.2	51.6		
		53.4	53.7	267.8	264.1	16	25	93.9	98.1	49.2	49.7		
1332	5.1	43.8	43.6	275.0	269.8	16	15	82.3	86.9	48.0	47.6	4.7	1523
		45.9	45.5	276.3	271.4	16	25	83.5	88.4	46.0	45.6		
		47.8	47.4	277.5	272.9	16	35	84.8	90.0	44.0	43.7		
1332	5.1	46.2	45.9	276.5	271.7	16	27	77.3	81.5	50.3	49.4	4.1	1534
		48.2	47.8	277.7	273.2	16	37	79.4	82.9	48.3	47.5		
		50.3	49.7	278.9	274.7	16	47	79.5	84.3	46.3	45.6		
472	4.3	44.3	43.7	275.7	270.5	16	37	78.4	82.9	48.3	47.5	4.1	1534
		46.0	45.6	276.0	272.1	16	47	79.5	84.3	46.3	45.6		
		48.1	47.6	278.1	273.6	16	57	80.6	85.7	44.3	43.7		
1323	4.9	56.5	56.1	275.9	272.5	16	59	83.4	83.2	60.7	60.0	4.8	1565
		58.5	58.0	277.1	274.1	17	9	81.7	84.7	58.7	58.1		
		60.5	59.9	278.4	275.6	17	19	82.9	86.2	56.7	56.2		
513	2.8	44.7	45.7	260.0	256.1	17	2	91.5	95.8	48.9	49.3	4.8	1539
		46.7	47.5	262.2	258.1	17	12	93.0	97.6	46.9	47.4		
		48.7	49.4	264.2	260.1	17	22	94.6	99.5	44.8	45.5		
522	4.9	41.5	41.8	269.6	264.3	17	18	83.1	88.0	46.0	45.6	5.2	786
		43.6	43.7	271.0	265.8	17	28	84.3	89.5	43.9	43.7		
		45.6	45.6	272.4	267.5	17	38	85.6	91.2	41.9	41.7		
517	4.5	52.2	52.7	265.5	261.7	17	29	89.0	92.3	56.5	56.5	5.3	1570
		54.2	54.6	267.1	263.5	17	39	90.4	94.0	54.4	54.6		
		56.3	56.5	268.6	265.2	17	49	91.8	95.7	52.4	52.7		
1350	4.5	39.0	39.6	276.2	270.3	17	43	81.0	86.3	43.8	43.3	3.4	797
		41.0	41.5	277.4	271.9	17	53	82.2	87.8	41.8	41.4		
		43.0	43.4	278.6	273.3	18	3	83.3	89.3	39.8	39.4		
522	4.3	49.7	49.5	275.0	270.9	17	58	82.4	86.1	53.7	53.2	4.0	831
		51.8	51.4	276.3	272.3	18	8	83.7	87.7	51.6	51.3		
		53.8	53.3	277.5	273.9	18	18	85.0	89.2	49.6	49.4		
572	3.7	38.2	38.2	274.2	267.8	18	27	81.9	87.4	42.4	41.9	5.0	1575
		40.3	40.1	275.4	269.5	18	37	83.0	89.0	40.4	40.0		
		42.3	42.0	276.6	271.1	18	47	84.2	90.6	38.3	38.1		
572	3.7	43.7	43.3	277.4	272.2	18	54	79.0	83.6	47.7	46.9	3.1	857
		45.8	45.2	278.6	273.7	19	4	80.1	85.0	45.6	45.0		
		47.8	47.2	279.7	275.1	19	14	81.2	86.5	43.6	43.1		
578	2.3	45.9	45.7	275.0	270.2	19	7	80.8	85.0	50.0	49.0	2.6	870
		48.0	47.6	276.3	271.7	19	17	81.9	86.5	48.0	47.5		
		50.0	49.5	277.5	273.3	19	27	83.1	88.0	46.0	45.6		
618	2.8	47.6	41.5	262.6	256.9	19	25	89.1	94.1	45.0	45.2	3.7	862
		49.6	43.3	264.2	259.0	19	35	90.5	95.9	43.0	43.3		
		51.7	45.2	265.9	260.9	19	45	92.0	97.7	40.9	41.4		
618	2.8	44.7	45.2	265.0	260.9	19	45	88.4	92.8	48.7	48.8	4.6	881
		46.7	47.1	267.5	263.8	19	55	89.8	94.5	46.6	46.8		
		48.7	49.0	269.0	264.6	20	5	91.3	96.3	44.6	44.9		
1421	5.3	53.7	54.2	266.0	262.4	19	56	86.7	89.8	58.0	57.9	4.9	1004
		55.7	56.1	267.5	264.1	20	6	88.1	91.5	56.0	56.0		
		57.7	59.2	269.0	265.9	20	16	89.5	93.1	53.9	54.0		

CATNO	MAG	WEST STAR				LST	EAST STAR				MAG	CATNO		
		Z. D.		AZ			HRS	MIN	Z. D.				AZ	
		LAT 35	LAT 40	LAT 35	LAT 40				LAT 35	LAT 40			LAT 35	LAT 40
613	4.5	54.0	54.8	261.8	258.3	20	7	93.6	96.7	58.1	58.5	2.9	7	
		56.0	56.7	263.5	260.2	20	17	95.1	98.4	56.0	56.6			
		58.0	58.6	265.0	262.0	20	27	96.7	100.2	54.0	54.7			
613	4.5	57.0	57.7	264.2	261.1	20	22	88.8	91.5	61.4	61.4	5.2	1026	
		59.1	59.6	265.8	262.8	20	32	90.2	93.2	59.3	59.5			
		61.1	61.5	267.3	264.6	20	42	91.7	94.9	57.3	57.6			
1460	4.5	40.4	40.7	270.4	264.6	20	35	82.2	87.3	44.9	44.4	2.2	1	
		42.5	42.6	271.8	266.3	20	45	83.4	88.8	42.9	42.5			
		44.5	44.5	273.1	268.1	20	55	84.6	90.4	40.8	40.6			
667	3.5	38.6	38.7	271.0	265.7	20	45	83.4	88.8	42.9	42.5	2.2	1	
		40.7	40.7	273.3	267.4	20	55	84.6	90.4	40.8	40.6			
		42.7	42.6	274.5	269.1	21	5	85.8	92.0	38.8	38.7			
667	3.5	41.7	41.6	273.9	268.3	21	0	81.3	86.2	45.9	45.3	4.5	19	
		43.7	43.5	275.2	269.9	21	10	82.5	87.7	43.8	43.4			
		45.8	45.4	276.4	271.5	21	20	83.7	89.3	41.8	41.5			
681	3.8	39.1	39.0	274.0	267.8	21	10	80.3	85.6	43.4	42.8	3.5	20	
		41.1	40.9	275.2	269.5	21	20	81.4	87.1	41.4	40.9			
		43.1	42.8	276.4	271.1	21	30	82.5	88.6	39.4	39.0			
691	3.9	41.0	41.8	263.3	257.7	21	21	89.3	94.3	45.4	45.6	4.3	27	
		43.0	43.7	265.0	259.8	21	31	90.8	96.0	43.4	43.7			
		45.1	45.6	266.6	261.7	21	41	92.3	97.9	41.3	41.8			
1488	4.9	40.4	40.5	271.2	265.4	21	51	85.2	90.3	44.6	44.4	4.7	45	
		42.4	42.4	272.6	267.1	22	1	86.5	91.9	42.5	42.5			
		44.5	44.3	273.0	268.8	22	11	87.8	93.7	40.5	40.6			
691	3.9	40.4	40.6	269.7	265.5	22	2	85.0	88.7	53.7	53.4	2.2	74	
		51.4	51.5	271.2	267.2	22	12	86.4	90.3	51.7	51.5			
		53.5	53.4	272.5	268.8	22	22	87.7	92.0	49.6	49.6			
733	4.3	47.5	48.0	266.5	262.3	22	12	86.4	90.3	51.7	51.5	2.2	74	
		49.6	49.9	268.0	263.8	22	22	87.7	92.0	49.6	49.6			
		51.6	51.8	269.5	265.5	22	32	89.1	93.6	47.6	47.7			
1488	4.9	46.9	46.6	275.4	270.7	22	23	77.9	82.0	51.1	50.2	5.4	1068	
		49.0	48.6	276.7	272.3	22	33	79.0	83.4	49.1	48.3			
		51.0	50.5	277.0	273.8	22	43	80.1	84.8	47.0	46.4			
1488	4.0	40.6	40.1	277.0	272.8	22	36	79.7	83.4	53.8	53.1	3.7	100	
		51.6	51.0	278.2	274.3	22	46	80.9	84.8	51.8	51.2			
		53.6	53.0	279.4	275.7	22	56	82.1	86.3	49.8	49.3			
1491	4.4	55.4	55.6	268.8	265.3	22	46	86.2	89.2	59.7	59.5	4.5	114	
		57.4	57.5	270.2	267.0	22	56	87.6	90.8	57.6	57.5			
		59.5	59.4	271.6	268.7	23	6	89.0	92.4	55.6	55.6			
1523	4.7	39.1	39.2	272.2	266.1	23	2	82.3	87.6	43.2	42.7	5.4	1068	
		41.2	41.1	273.5	267.8	23	12	83.4	89.2	41.2	40.8			
		43.2	43.0	274.8	269.5	23	22	84.6	90.8	39.1	38.9			
1513	4.5	50.0	50.7	263.7	259.6	23	12	89.8	93.4	54.3	54.5	4.5	114	
		52.1	52.6	265.3	261.4	23	22	91.3	95.1	52.3	52.6			
		54.1	54.5	266.8	263.2	23	32	92.8	96.9	50.2	50.7			
752	3.7	47.8	48.5	265.1	260.6	23	24	91.6	95.5	51.9	52.2	4.5	114	
		49.0	50.3	266.6	262.5	23	34	93.1	97.3	49.8	50.3			
		51.9	52.2	268.1	264.2	23	44	94.6	99.1	47.8	48.4			
752	3.7	52.5	52.8	268.6	264.8	23	47	84.8	88.1	56.9	56.6	4.5	1112	
		54.6	54.7	270.0	266.5	23	57	86.2	89.7	54.8	54.7			
		56.6	56.6	271.4	268.1	24	7	87.5	91.3	52.8	52.7			

CATNO	MAG	WEST STAR				LST		EAST STAR				MAG	CATNO
		Z.D.		AZ		HRS	MIN	Z.D.		AZ			
		LAT 40	LAT 45	LAT 40	LAT 45					LAT 40	LAT 45	LAT 40	LAT 45
1534	4.1	43.5	43.3	274.1	268.8	23	59	80.7	85.4	47.2	46.6	2.9	144
		45.4	45.1	275.6	270.6	0	9	82.1	87.0	45.3	44.8		
		47.3	46.9	277.0	272.3	0	19	83.4	89.7	43.4	43.1		
1539	4.8	48.4	49.2	263.4	259.1	0	9	91.7	95.5	52.4	52.7	4.5	1112
		50.4	51.0	265.2	261.1	0	19	93.3	97.4	50.4	50.9		
		52.3	52.7	266.9	263.1	0	29	95.1	99.4	48.5	49.2		
797	3.4	39.2	39.4	270.5	264.4	0	20	83.5	88.9	43.2	42.9	2.9	144
		41.1	41.2	272.1	266.3	0	30	84.9	90.7	41.3	41.1		
		43.0	43.0	273.6	268.2	0	40	86.4	92.5	39.4	39.4		
1539	4.8	54.2	54.5	268.6	265.1	0	39	87.6	90.7	58.1	58.0	4.7	184
		56.1	56.2	270.2	266.8	0	49	89.2	92.5	56.1	56.2		
		58.0	58.0	271.8	268.6	0	59	90.8	94.4	54.2	54.4		
797	3.4	45.0	44.7	275.0	270.0	0	50	77.6	82.0	48.8	48.6	2.9	181
		46.9	46.5	276.4	271.7	1	0	78.9	83.6	47.0	46.2		
		48.8	48.3	277.8	273.4	1	10	80.2	85.2	45.1	44.4		
1570	5.3	49.0	49.9	260.8	256.6	1	5	91.7	95.5	53.1	53.4	4.7	184
		50.9	51.7	262.6	258.6	1	15	93.4	97.4	51.2	51.6		
		52.8	53.4	264.4	260.7	1	25	95.1	99.4	49.3	49.9		
804	4.3	53.7	54.2	266.0	262.4	1	16	89.4	91.5	57.8	57.8	3.0	211
		55.7	56.0	267.7	264.3	1	26	90.0	93.4	55.9	56.1		
		57.6	57.8	269.4	266.2	1	36	91.6	95.2	54.0	54.3		
1575	5.0	45.0	44.8	275.0	269.9	1	27	78.9	83.3	49.0	48.3	4.9	1151
		46.9	46.6	276.4	271.7	1	37	80.2	84.9	47.2	46.5		
		48.8	48.3	277.8	273.4	1	47	81.5	86.5	45.3	44.7		
804	4.3	57.9	57.9	269.5	266.4	1	37	83.3	86.1	61.7	61.2	3.2	241
		59.7	59.7	271.1	268.2	1	47	84.8	87.8	59.8	59.5		
		61.6	61.5	272.7	270.0	1	57	86.4	90.5	57.9	57.7		
1565	4.9	57.1	56.0	274.0	271.3	1	53	80.1	82.9	61.1	61.4	3.2	254
		59.0	58.7	275.6	273.0	2	3	81.6	84.6	59.3	59.7		
		60.9	60.4	277.5	274.7	2	13	83.0	86.2	57.4	58.0		
870	2.6	38.8	39.4	266.2	260.1	2	3	93.4	94.8	42.7	42.8	1.9	202
		40.7	41.1	267.9	262.2	2	13	91.0	96.7	40.7	41.1		
		42.6	42.9	269.5	264.2	2	23	92.6	98.8	38.8	39.3		
870	2.6	43.2	43.4	270.0	264.7	2	26	84.3	89.0	47.2	46.9	4.5	1166
		45.1	45.2	271.6	266.6	2	36	85.8	90.7	45.3	45.1		
		47.0	46.9	273.2	268.5	2	46	87.2	92.5	43.4	43.4		
831	4.1	57.7	57.2	277.4	274.0	2	38	77.5	80.2	61.5	60.5	4.2	1196
		59.6	59.0	278.8	275.9	2	48	78.8	81.8	59.6	58.8		
		61.5	60.7	280.3	277.5	2	58	80.2	83.4	57.7	57.0		
880	4.7	46.7	47.0	265.8	261.2	2	49	88.4	92.6	50.5	50.5	3.2	254
		48.6	49.1	267.5	263.2	2	59	90.0	94.4	48.6	48.8		
		50.5	50.7	269.2	265.1	3	9	91.7	96.3	46.7	47.0		
881	4.6	46.3	47.0	265.0	260.3	2	51	88.9	92.9	50.1	50.2	3.2	254
		48.2	48.7	266.7	262.3	3	1	90.4	94.8	48.2	48.4		
		50.1	50.5	268.4	264.2	3	11	92.0	96.7	46.3	46.7		
880	4.7	48.6	49.0	267.5	263.2	2	59	89.1	91.9	52.6	52.6	5.2	1182
		50.5	51.0	269.2	265.1	3	9	90.7	93.8	50.7	50.8		
		52.4	52.5	270.9	267.0	3	19	91.3	95.6	48.8	49.1		
881	4.6	48.2	48.7	266.7	262.3	3	1	89.4	92.3	52.2	52.2	5.2	1182
		50.1	50.5	268.4	264.2	3	11	91.0	94.1	50.3	50.5		
		52.1	52.2	270.0	266.1	3	21	91.6	96.0	48.4	48.7		
1620	4.8	42.8	43.5	264.7	259.4	3	17	91.8	96.5	46.5	46.8	3.2	254
		44.7	45.3	266.4	261.4	3	27	93.5	98.5	44.6	45.1		
		46.6	47.0	268.1	263.4	3	37	95.2	100.6	42.6	43.3		
880	4.7	52.6	52.7	271.0	267.1	3	27	84.7	89.0	56.5	56.2	3.7	294
		54.5	54.4	272.5	269.0	3	37	86.2	89.8	54.6	54.4		
		56.4	56.2	274.1	270.7	3	47	87.7	91.5	52.7	52.7		
881	4.6	52.2	52.4	270.2	266.3	3	22	85.0	88.4	56.1	55.8	3.7	294
		54.2	54.2	271.8	268.1	3	32	86.5	90.1	54.2	54.1		
		56.1	55.9	273.3	269.9	3	42	88.0	91.9	52.3	52.3		
1620	4.3	47.2	47.5	268.6	264.0	3	33	85.3	89.3	51.1	50.8	4.2	1196
		49.1	49.3	270.2	265.9	3	43	86.8	91.1	49.2	49.1		
		51.0	51.1	271.8	267.8	3	53	88.3	92.9	47.3	47.3		
1620	4.8	49.5	49.6	270.0	266.3	3	45	87.0	89.7	53.6	53.0	5.0	305
		51.4	51.4	272.1	268.1	3	55	88.4	91.4	51.7	51.3		
		53.3	53.2	273.7	269.9	4	5	89.9	93.1	49.8	49.5		
27	4.3	42.6	43.5	262.0	257.7	3	56	88.8	93.5	46.7	46.8	4.2	1196
		44.5	45.2	264.8	259.8	4	6	90.4	95.4	44.8	45.0		
		46.4	46.9	266.5	261.8	4	16	92.0	97.3	42.8	43.3		

CATNO	MAG	WEST STAR				LST	AZ		EAST STAR		MAG	CATNO
		Z.D.		AZ			Z.D.					
		LAT 40	LAT 45	LAT 40	LAT 45	HRS MIN	LAT 40	LAT 45	LAT 40	LAT 45		
1004	4.9	54.2	54.6	267.0	263.5	4 12	89.1	92.2	58.0	58.1	5.5	321
		56.1	56.4	268.7	265.3	4 22	90.7	94.1	56.1	56.3		
		58.0	58.1	270.3	267.2	4 32	92.4	96.0	54.2	54.5		
1629	4.8	57.7	57.2	277.1	273.9	4 28	78.3	81.0	61.6	60.7	4.6	1244
		59.6	59.0	278.5	275.6	4 38	79.7	82.6	59.7	59.0		
		61.5	60.8	280.0	277.2	4 48	81.1	84.2	57.9	57.2		
45	4.7	42.9	43.3	268.4	263.1	4 38	88.0	92.7	46.9	46.9	5.2	1217
		44.8	45.0	270.1	265.1	4 48	89.6	94.6	45.0	45.2		
		46.7	46.8	271.6	266.9	4 58	91.2	96.5	43.1	43.4		
27	4.3	53.3	53.3	272.4	269.6	4 52	81.6	84.9	57.1	56.5	4.6	1244
		55.2	55.0	273.9	270.4	5 2	83.1	86.6	55.2	54.7		
		57.1	56.8	275.4	272.2	5 12	84.5	88.3	53.3	53.0		
27	4.3	56.0	55.8	274.5	271.1	5 6	79.8	82.7	59.9	59.1	4.1	371
		57.9	57.5	276.0	272.8	5 16	81.2	84.4	58.0	57.3		
		59.8	59.3	277.5	274.5	5 26	82.7	86.0	56.1	55.6		
66	2.7	47.4	48.3	261.7	257.2	5 18	92.3	96.2	51.5	51.8	5.2	1239
		49.3	50.0	263.5	259.3	5 28	94.0	98.2	49.6	50.1		
		51.2	51.8	265.3	261.3	5 38	95.7	100.2	47.7	48.3		
74	2.2	45.8	46.4	264.6	259.8	5 30	87.2	91.5	49.9	49.8	4.6	1244
		47.7	48.2	266.3	261.8	5 40	88.8	93.3	47.9	48.0		
		49.6	49.9	268.0	263.8	5 50	90.4	95.2	46.0	46.3		
74	2.2	49.6	49.1	267.2	262.8	5 45	88.9	92.7	52.3	52.4	3.1	367
		50.5	50.8	268.9	264.8	5 55	90.5	94.6	50.4	50.6		
		52.5	52.6	270.5	266.6	6 5	92.1	96.5	48.5	48.9		
74	2.2	51.7	51.9	269.8	265.9	6 1	86.9	90.4	55.4	55.3	3.7	384
		53.6	53.6	271.4	267.7	6 11	88.5	92.2	53.5	53.5		
		55.5	55.4	273.0	269.5	6 21	90.1	94.0	51.5	51.7		
89	5.4	49.0	49.6	265.1	260.8	6 14	89.0	92.7	52.9	53.0	3.7	384
		50.9	51.3	266.9	262.8	6 24	90.6	94.6	51.0	51.2		
		52.8	53.1	268.5	264.7	6 34	92.2	96.5	49.0	49.4		
1089	5.1	45.7	46.7	269.4	255.7	6 35	91.5	95.7	49.8	50.1	3.7	384
		47.6	48.4	262.3	257.9	6 40	93.2	97.7	47.9	48.4		
		49.5	50.2	264.1	259.9	6 50	95.0	99.7	46.0	46.6		
1089	5.1	48.3	49.1	263.0	258.7	6 44	89.7	93.6	52.4	52.5	5.1	405
		50.2	50.9	264.8	260.7	6 54	91.3	95.4	50.5	50.8		
		52.1	52.6	266.5	262.7	7 4	93.0	97.4	48.6	49.0		
114	4.5	52.8	53.4	265.7	261.3	7 0	90.7	93.3	56.7	56.8	2.6	422
		54.7	55.1	266.8	263.3	7 10	91.7	95.2	54.8	55.1		
		56.6	56.9	268.4	265.1	7 20	93.3	97.1	52.9	53.2		
144	2.9	42.7	42.4	276.1	270.6	7 23	79.0	83.7	46.7	45.9	3.7	425
		44.6	44.2	277.4	272.3	7 33	80.2	85.3	44.8	44.2		
		46.5	45.9	278.9	274.1	7 43	81.5	86.9	42.9	42.4		
136	3.8	53.5	53.5	272.3	269.6	7 50	82.0	85.2	57.3	56.7	4.8	1318
		55.4	55.2	273.9	270.4	8 1	83.4	86.9	55.4	54.9		
		57.3	57.0	275.4	272.2	8 11	84.9	88.6	53.5	53.2		
139	3.0	53.2	53.2	272.1	269.3	7 51	82.1	85.4	57.1	56.5	4.8	1318
		55.1	54.9	273.6	270.1	8 1	83.6	87.0	55.2	54.8		
		57.0	56.7	275.1	271.9	8 11	85.0	88.8	53.3	53.0		
142	3.8	53.1	53.1	271.0	268.2	7 52	82.2	85.5	56.9	56.4	4.8	1318
		55.0	54.9	273.5	270.1	8 2	83.7	87.2	55.0	54.6		
		56.9	56.6	275.0	271.7	8 12	85.2	88.9	53.1	52.8		
1112	4.5	54.3	54.4	270.0	266.4	8 8	86.0	89.1	58.0	57.7	4.8	1323
		56.2	56.2	271.6	268.2	8 18	87.5	90.9	56.0	56.0		
		58.1	58.0	273.1	270.0	8 28	89.1	92.7	54.1	54.2		
168	1.1	54.0	55.0	261.7	257.8	8 21	92.1	95.2	58.0	58.3	5.2	473
		55.9	56.7	263.1	259.8	8 31	93.8	97.1	56.1	56.5		
		57.8	58.4	264.8	261.7	8 41	95.5	99.0	54.1	54.8		
184	4.7	48.7	49.4	264.4	260.1	8 36	90.4	94.2	52.6	52.8	4.8	1323
		50.6	51.1	266.1	262.1	8 46	92.0	96.1	50.7	51.0		
		52.5	52.9	267.8	264.0	8 56	93.7	98.0	48.8	49.3		
1151	4.9	49.3	49.2	274.0	269.0	8 50	87.3	85.4	44.4	43.8	5.4	1322
		42.3	41.9	276.3	270.8	9 0	81.5	87.0	42.5	42.0		
		44.2	43.7	277.7	272.5	9 10	82.9	88.7	40.6	40.3		
1158	4.5	42.6	42.9	269.9	263.5	9 11	87.8	92.5	46.5	46.5	5.1	1332
		44.5	44.6	270.5	265.4	9 21	89.3	94.4	44.6	44.8		
		46.4	46.4	272.1	267.3	9 31	90.9	96.3	42.7	43.0		
1158	4.5	44.5	44.6	270.5	265.4	9 21	85.8	90.3	48.3	48.1	4.3	492
		46.4	46.4	272.1	267.3	9 31	87.3	92.1	46.4	46.4		
		48.3	48.2	273.6	269.1	9 41	88.9	94.0	44.5	44.6		

CATNO	MAG	WEST STAR Z.D.		AZ		LST HRS MIN	AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 40	LAT 45	LAT 40	LAT 45		LAT 40	LAT 45	LAT 40	LAT 45		
254	3.2	40.1	41.0	262.2	256.5	9 42	89.0	94.2	44.3	44.4	4.3	492
		42.0	42.7	264.1	258.7	9 52	90.6	96.1	42.4	42.7		
		43.9	44.5	265.9	260.8	10 2	92.3	98.1	40.5	40.9		
1158	4.5	51.3	51.0	275.9	271.9	9 57	77.0	80.4	55.4	54.4	3.8	534
		53.3	52.8	277.4	273.6	10 7	78.3	82.0	53.5	52.7		
		55.1	54.5	278.9	275.3	10 17	79.6	83.6	51.6	50.9		
1168	4.5	48.9	48.5	276.9	272.6	10 11	78.8	82.6	52.8	52.0	3.8	534
		50.8	50.2	278.3	274.2	10 21	80.2	84.3	50.9	50.2		
		52.7	52.0	279.7	275.9	10 31	81.5	85.9	49.0	48.4		
1169	4.5	49.3	48.8	277.2	272.9	10 13	79.4	83.2	53.2	52.5	4.5	1380
		51.2	50.6	278.6	274.6	10 23	80.8	84.8	51.4	50.7		
		53.0	52.3	280.0	276.2	10 33	82.1	86.4	49.5	48.8		
1163	4.3	56.4	56.2	273.5	271.2	10 22	81.1	84.0	60.3	59.6	5.0	1396
		58.3	58.0	275.1	271.9	10 32	82.5	85.6	58.4	57.9		
		60.2	59.7	276.5	273.6	10 42	84.0	87.3	56.5	56.1		
1182	5.2	47.7	48.1	267.8	263.3	10 38	85.2	89.2	51.8	51.5	4.9	1383
		49.7	49.9	269.5	265.2	10 48	86.7	90.9	49.9	49.8		
		51.6	51.6	271.1	267.1	10 58	88.2	92.7	48.0	48.0		
1182	5.2	49.7	49.9	269.5	265.2	10 48	83.1	86.8	53.7	53.2	4.7	557
		51.6	51.6	271.1	267.1	10 58	84.6	88.6	51.8	51.5		
		53.5	53.4	272.6	268.7	11 8	86.1	90.3	49.9	49.7		
294	3.7	43.6	44.3	264.4	259.3	10 59	88.4	92.9	47.8	47.8	4.9	1383
		45.5	46.1	266.2	261.3	11 9	89.9	94.8	45.9	46.1		
		47.4	47.8	267.9	263.3	11 19	91.6	96.7	43.9	44.3		
294	3.7	45.5	46.1	266.2	261.3	11 9	86.2	90.5	49.7	49.5	4.7	557
		47.4	47.8	267.9	263.3	11 19	87.7	92.3	47.8	47.8		
		49.3	49.6	269.5	265.2	11 29	89.3	94.2	45.8	46.0		
277	3.7	57.2	57.8	264.4	261.2	11 20	90.3	92.8	60.9	61.1	4.3	584
		59.1	59.6	266.1	263.1	11 30	91.6	94.6	59.0	59.2		
		61.0	61.3	267.8	265.0	11 40	93.3	96.5	57.1	57.5		
305	5.0	44.7	44.8	271.1	266.0	11 33	83.9	88.3	48.5	48.1	3.7	572
		46.6	46.6	272.6	267.9	11 43	85.3	90.0	46.6	46.4		
		48.5	48.3	274.1	269.7	11 53	86.8	91.8	44.7	44.6		
1267	5.0	49.2	49.2	273.1	268.8	11 44	87.7	93.4	53.2	52.8	4.2	593
		51.1	50.9	274.6	270.6	11 54	89.1	95.1	51.3	51.0		
		53.1	52.7	276.1	272.3	12 4	90.6	96.9	49.4	49.2		
328	4.2	43.3	43.7	269.1	263.3	11 56	87.2	92.4	44.1	44.1	3.7	572
		44.3	44.4	270.7	265.2	12 6	88.8	94.3	42.2	42.3		
		44.2	44.2	272.0	267.1	12 16	90.3	96.2	40.3	40.6		
294	3.7	56.6	56.3	275.4	272.1	12 7	81.4	84.3	60.3	59.7	5.2	1440
		58.5	58.0	276.9	273.8	12 17	82.9	86.0	58.4	57.9		
		60.4	59.9	278.3	275.5	12 27	84.3	87.7	56.5	56.2		
321	5.5	51.9	52.4	265.6	261.7	12 19	89.6	93.0	55.7	55.8	2.8	618
		53.8	54.2	267.3	263.6	12 29	91.2	94.9	53.8	54.0		
		55.7	55.9	268.9	265.5	12 39	92.9	96.8	51.8	52.3		
1244	4.6	47.7	47.4	264.9	259.1	12 29	90.5	95.6	44.6	44.9	4.2	593
		49.6	49.1	266.6	261.2	12 39	92.2	97.5	42.7	43.1		
		44.5	44.9	268.3	263.3	12 49	93.9	99.6	40.8	41.3		
328	4.2	48.6	48.3	275.7	271.2	12 39	78.2	82.0	52.6	51.8	3.9	634
		50.5	50.0	277.1	273.0	12 49	79.5	83.6	50.8	50.0		
		52.4	51.8	278.5	274.6	12 59	80.9	85.3	48.9	48.3		
367	3.1	45.7	45.7	264.7	259.8	13 6	90.4	94.7	49.1	49.3	5.2	1440
		46.9	47.4	266.4	261.8	13 16	92.0	96.6	47.1	47.5		
		48.8	49.2	268.1	263.8	13 26	93.7	98.6	45.2	45.8		
367	3.1	47.3	47.7	266.9	262.2	13 18	88.4	92.4	51.1	51.2	3.2	641
		49.2	49.5	268.5	264.2	13 28	89.9	94.3	49.2	49.4		
		51.1	51.3	270.1	266.1	13 38	91.6	96.2	47.3	47.6		
384	3.7	44.4	45.2	263.6	258.6	13 33	91.8	95.2	48.2	48.5	3.2	641
		46.3	47.1	265.4	260.7	13 43	93.4	97.1	46.3	46.8		
		48.3	48.7	267.1	262.7	13 53	94.1	99.2	44.4	45.0		
371	4.1	49.9	49.9	272.6	268.3	13 45	80.4	84.1	54.0	53.3	3.8	661
		51.8	51.6	274.1	270.1	13 55	81.9	85.7	52.1	51.5		
		53.7	53.4	275.6	271.9	14 5	83.2	87.4	50.2	49.8		
367	3.1	55.5	55.3	273.7	270.2	14 1	79.5	82.5	59.3	58.5	4.9	1488
		57.4	57.1	275.2	272.0	14 11	80.9	84.1	57.4	56.8		
		59.3	58.9	276.7	273.7	14 21	82.3	85.8	55.5	55.0		
384	3.7	57.2	57.0	274.6	271.3	14 40	80.9	83.7	61.1	60.4	4.6	1508
		59.2	58.8	276.1	273.1	14 50	82.4	85.4	59.2	58.7		
		61.1	60.5	277.5	274.8	15 0	83.8	87.0	57.3	56.9		

CATNO	MAG	WEST STAP				LST	EAST STAP				MAC	CATNO	
		Z. D.		AZ			Z. D.		AZ				
		LAT 41	LAT 45	LAT 40	LAT 45		LAT 40	LAT 45	LAT 40	LAT 45			
405	5.1	54.7	54.7	272.2	268.7	14	53	87.8	85.9	58.6	58.1	4.6	1508
		56.7	56.5	273.8	270.5	15	3	84.3	87.6	56.7	56.4		
		58.6	58.2	275.3	272.2	15	13	85.8	89.3	54.8	54.6		
423	3.4	57.6	58.3	263.2	261.1	15	15	89.1	91.9	61.5	61.5	3.8	743
		59.5	60.1	264.9	262.0	15	25	90.7	93.7	59.6	59.8		
		61.4	61.8	266.6	263.9	15	35	92.4	95.5	57.7	58.0		
1318	4.8	41.4	42.1	265.0	259.4	15	30	87.2	92.2	45.3	45.3	5.5	1498
		43.3	43.8	266.7	261.5	15	40	88.7	94.0	43.4	43.5		
		45.2	45.6	268.4	263.5	15	50	90.3	96.0	41.5	41.7		
1319	4.8	43.9	44.4	267.2	262.1	15	43	86.4	90.9	47.8	47.6	3.2	732
		45.8	46.1	268.9	264.1	15	53	87.9	92.7	45.8	45.9		
		47.7	47.9	270.5	265.0	16	3	89.4	94.6	43.9	44.1		
1304	4.5	57.1	57.2	269.8	266.6	16	1	85.9	88.7	60.9	60.7	4.6	1539
		59.0	59.1	271.4	268.4	16	11	87.4	90.4	59.0	58.9		
		60.9	60.8	273.0	270.2	16	21	89.0	92.2	57.1	57.2		
1323	4.8	48.9	49.2	266.4	262.8	16	12	87.4	91.3	52.7	52.7	5.5	760
		50.7	51.1	268.0	264.7	16	22	89.0	93.1	50.8	50.9		
		52.7	52.9	269.7	265.9	16	32	90.6	94.9	48.9	49.1		
1332	5.1	45.7	45.7	271.6	265.7	16	26	81.4	85.6	49.6	49.0	4.1	1534
		47.6	47.5	273.1	265.5	16	36	82.7	87.3	47.7	47.2		
		49.5	49.3	274.6	270.3	16	46	84.1	89.0	45.8	45.5		
492	4.3	43.5	43.7	270.3	265.1	16	36	82.7	87.2	47.7	47.2	4.1	1534
		45.5	45.5	271.9	267.1	16	46	84.1	89.0	45.8	45.5		
		47.4	47.3	273.4	269.9	16	56	85.6	90.8	43.9	43.7		
1332	5.1	49.9	49.6	274.9	270.6	16	48	78.6	82.3	53.7	52.9	3.4	797
		51.8	51.4	276.3	272.4	16	58	80.1	83.9	51.8	51.1		
		53.7	53.2	277.8	274.1	17	8	81.3	85.6	49.9	49.4		
492	4.3	47.8	47.6	273.7	269.2	16	58	80.0	83.9	51.8	51.1	3.4	797
		49.7	49.4	275.2	271.1	17	8	81.3	85.6	49.9	49.4		
		51.6	51.2	276.7	272.7	17	18	82.7	87.2	48.0	47.6		
432	4.3	51.4	51.0	276.5	272.5	17	17	77.7	81.1	55.2	54.3	5.0	1575
		53.3	52.7	278.0	274.2	17	27	79.0	82.7	53.3	52.5		
		55.2	54.5	279.3	275.8	17	37	80.3	84.3	51.4	50.8		
507	4.5	52.7	53.6	261.7	258.8	17	29	92.3	95.6	56.5	56.9	5.3	1570
		54.6	55.3	263.5	260.7	17	39	94.0	97.5	54.6	55.1		
		56.5	57.1	265.2	262.0	17	49	95.7	99.4	52.7	53.3		
1380	4.5	39.4	39.7	270.1	264.0	17	42	86.1	91.4	43.5	42.4	3.4	797
		41.3	41.4	271.7	265.1	17	52	87.6	93.2	41.5	41.6		
		43.2	43.2	273.2	267.9	18	2	89.2	95.2	39.6	39.8		
534	3.3	44.3	44.0	275.0	269.8	18	6	79.3	82.5	49.4	47.5	4.4	835
		46.2	45.8	276.4	271.6	18	16	79.3	84.0	46.5	45.8		
		48.1	47.6	277.9	273.3	18	26	80.6	85.7	44.6	44.0		
1395	5.0	42.5	43.3	264.3	259.9	18	18	90.8	95.5	46.4	46.7	5.1	823
		44.4	45.0	266.0	261.0	18	28	92.5	97.5	44.5	44.9		
		46.4	46.8	267.7	263.0	18	38	94.2	99.5	42.6	43.2		
1380	4.5	49.2	47.9	276.9	272.5	18	28	80.0	84.0	51.8	51.1	3.1	857
		51.1	49.6	278.3	274.1	18	38	81.4	85.6	49.9	49.4		
		52.0	51.3	279.7	275.8	18	48	82.7	87.3	48.0	47.6		
576	4.0	33.2	33.3	272.0	265.7	18	38	82.1	87.6	42.3	41.9	4.4	835
		40.2	40.1	273.5	267.6	18	48	83.5	89.4	40.4	40.1		
		42.1	41.9	274.9	269.4	18	58	84.8	91.1	38.5	38.4		
572	3.7	43.1	43.2	272.0	266.7	18	53	83.4	88.1	47.1	46.7	3.1	857
		45.0	45.0	273.5	269.5	19	3	84.9	89.8	45.2	45.0		
		47.0	46.7	275.0	270.3	19	13	86.3	91.6	43.3	43.2		
573	2.3	45.7	45.9	270.2	265.3	19	7	85.0	89.3	49.4	49.2	2.6	870
		47.6	47.7	271.7	267.2	19	17	86.5	91.0	47.5	47.4		
		49.5	49.4	273.2	269.0	19	27	88.0	92.9	45.6	45.6		
593	4.2	43.3	43.7	268.4	263.2	19	18	86.6	91.2	47.3	47.2	2.6	870
		45.3	45.5	270.0	265.1	19	28	88.1	93.1	45.4	45.5		
		47.2	47.2	271.5	267.0	19	38	89.7	95.0	43.5	43.7		
578	2.3	51.4	51.2	274.8	270.8	19	37	79.0	82.5	55.5	54.7	2.2	1
		53.3	53.0	276.2	272.5	19	47	80.4	84.1	53.6	52.9		
		55.2	54.7	277.7	274.2	19	57	81.8	85.7	51.7	51.1		
593	4.2	49.3	49.2	273.7	269.7	19	49	80.7	84.4	53.2	52.6	2.2	1
		51.2	50.9	274.8	270.3	19	59	82.1	86.1	51.3	50.8		
		53.1	52.7	276.3	272.5	20	9	83.5	87.8	49.4	49.0		
593	4.2	52.1	51.8	275.5	271.6	20	4	78.4	81.8	55.9	55.1	4.5	19
		54.0	53.6	277.0	273.4	20	14	79.7	83.4	54.1	53.3		
		55.9	55.4	278.4	275.0	20	24	81.1	85.0	52.2	51.6		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO	
		Z. D.		LAT 40	LAT 45	LAT 40	LAT 45	HRS	MIN	LAT 40	LAT 45			Z. D.
618	2.9		52.7	53.0	267.8	264.1	20	24	85.1	88.4	56.5	56.2	4.3	27
			54.6	54.8	269.5	265.9	20	34	86.6	90.2	54.6	54.4		
			56.5	56.5	271.1	267.8	20	44	88.2	92.0	52.7	52.7		
1460	4.5		40.5	41.2	264.4	258.7	20	34	87.1	92.2	44.6	44.6	2.2	1
			42.4	43.0	266.2	260.8	20	44	88.6	94.1	42.7	42.8		
			44.3	44.7	267.9	262.8	20	54	90.2	96.0	40.8	41.1		
667	3.5		38.7	39.4	265.7	259.6	20	45	88.8	94.2	42.5	42.7	2.2	1
			40.7	41.1	267.4	261.7	20	55	90.4	96.2	40.6	40.9		
			42.6	42.9	269.1	262.7	21	5	92.0	98.2	38.7	39.2		
667	3.5		41.4	41.8	268.1	262.5	20	59	86.1	91.0	45.5	45.4	4.5	19
			43.3	43.6	269.8	264.5	21	9	87.6	92.8	43.6	43.6		
			45.2	45.3	271.3	266.4	21	19	89.1	94.7	41.7	41.9		
681	3.3		39.0	39.4	267.9	261.7	21	10	85.6	91.0	42.8	42.7	3.5	20
			40.9	41.2	269.5	263.7	21	20	87.1	92.9	40.9	40.9		
			42.8	43.0	271.1	265.7	21	30	88.6	94.8	39.0	39.1		
674	3.9		43.1	43.2	272.1	266.8	21	23	83.8	88.5	46.9	46.5	4.7	43
			45.0	44.9	273.6	268.6	21	33	85.2	90.3	45.0	44.8		
			46.9	46.7	275.1	270.4	21	43	86.7	92.1	43.1	43.0		
667	3.5		48.5	48.4	273.9	269.5	21	36	80.5	84.3	52.5	51.8	3.6	64
			50.4	50.1	275.4	271.3	21	46	81.8	86.0	50.6	50.1		
			52.3	51.9	276.9	273.1	21	56	83.2	87.6	48.7	48.3		
681	3.8		46.3	46.1	273.8	269.0	21	48	82.1	86.3	50.2	49.7	3.6	64
			48.2	47.9	275.3	270.8	21	58	83.5	88.0	48.3	48.0		
			50.1	49.7	276.7	272.5	22	8	84.9	89.7	46.4	46.2		
1467	4.5		56.5	56.0	277.7	274.4	21	58	78.0	80.9	60.2	59.3	3.7	100
			58.4	57.8	279.1	276.1	22	8	79.4	82.5	58.4	57.6		
			60.3	59.5	280.6	277.7	22	18	80.8	84.2	56.5	55.8		
1468	5.5		54.2	53.8	275.9	272.2	22	19	79.7	82.8	58.0	57.2	3.7	100
			56.1	55.6	277.3	273.9	22	29	81.1	84.5	56.1	55.5		
			58.0	57.3	278.7	275.5	22	39	82.5	86.1	54.2	53.7		
713	3.3		40.8	40.5	276.1	270.2	22	20	77.6	82.6	44.8	44.5	3.1	75
			42.7	42.2	277.4	272.0	22	30	78.8	84.2	43.0	42.2		
			44.6	44.0	278.7	273.6	22	40	80.0	85.7	41.1	40.5		
1488	4.9		48.4	48.4	272.1	267.7	22	32	83.3	87.1	52.4	51.9	4.6	94
			50.3	50.1	273.7	269.5	22	42	84.7	88.9	50.5	50.2		
			52.2	51.9	275.2	271.3	22	52	86.2	90.6	48.5	48.4		
1491	4.4		55.6	56.2	265.3	262.0	22	46	80.2	92.1	59.5	59.5	4.5	114
			57.5	57.9	267.0	263.9	22	56	81.8	93.9	57.5	57.7		
			59.4	59.7	268.7	265.8	23	6	83.4	95.8	55.6	56.0		
1527	4.7		39.0	39.6	265.0	259.8	23	1	87.5	92.8	42.9	43.0	5.4	1068
			40.9	41.4	267.6	261.9	23	11	89.0	94.7	41.0	41.2		
			42.9	43.1	269.3	263.9	23	21	90.6	96.7	39.1	39.4		
743	3.8		49.7	50.7	260.2	256.1	23	16	92.2	95.9	53.6	53.9	5.0	1099
			51.6	52.4	262.1	258.2	23	26	93.9	97.8	51.7	52.2		
			53.5	54.1	263.9	260.2	23	36	95.6	99.8	49.8	50.4		
752	3.7		48.8	49.8	261.0	256.8	23	26	92.7	96.5	52.8	53.2	5.2	1094
			50.7	51.5	262.8	258.8	23	36	94.4	98.4	50.9	51.5		
			52.6	53.3	264.6	260.8	23	46	96.2	100.4	49.0	49.7		
752	3.7		52.6	53.3	264.6	260.8	23	46	88.0	91.3	56.8	56.7	4.5	1112
			54.5	55.0	266.3	262.8	23	56	89.5	93.1	54.8	55.0		
			56.4	56.8	268.0	264.7	24	6	91.2	94.9	52.9	53.2		

CATNO	MAG	WEST STAR				AZ		LST		EAST STAR				MAG	CATNO
		Z.D.						AZ		Z.D.					
		LAT 45	LAT 50	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50	LAT 45	LAT 50	LAT 45	LAT 50		
743	3.8	57.6	58.3	264.1	261.0	23	56	91.3	94.1	61.1	61.3	3.6	164		
		59.4	59.9	266.0	263.1	0	6	93.1	96.0	59.3	55.7				
		61.2	61.5	267.8	265.1	0	16	95.0	98.1	57.6	56.1				
789	2.6	40.0	40.0	272.0	266.0	0	8	81.4	86.6	43.8	43.2	4.1	148		
		41.7	41.7	273.6	268.0	0	18	82.9	88.4	42.0	41.6				
		43.5	43.3	275.3	270.0	0	28	84.4	90.3	40.3	40.0				
757	3.4	39.3	40.0	264.2	258.2	0	19	88.7	94.1	43.1	43.2	2.9	144		
		41.0	41.6	266.1	260.5	0	29	90.5	96.1	41.3	41.6				
		42.8	43.2	268.0	262.7	0	39	92.3	98.3	39.5	40.0				
1523	4.7	55.5	55.1	276.3	272.9	0	31	79.1	82.1	59.0	58.2	1.8	202		
		57.3	56.7	278.0	274.7	0	41	80.7	83.9	57.3	56.6				
		59.0	58.3	279.6	276.5	0	51	82.3	85.7	55.5	55.0				
757	3.4	44.4	44.6	269.6	264.5	0	48	81.7	86.2	48.3	47.8	2.9	181		
		46.1	46.2	271.4	266.6	0	58	83.3	88.0	46.5	46.2				
		47.9	47.8	273.1	268.6	1	8	84.8	89.9	44.8	44.6				
786	5.2	50.7	50.7	272.2	268.1	0	58	83.4	87.0	54.3	53.9	1.8	202		
		52.4	52.3	273.9	270.2	1	8	85.0	88.9	52.5	52.3				
		54.2	53.9	275.6	271.9	1	18	86.7	90.8	50.8	50.7				
804	4.3	54.2	55.1	262.4	258.9	1	16	91.5	94.7	57.8	58.1	3.0	211		
		56.0	56.6	264.3	261.0	1	26	93.4	96.7	56.1	56.5				
		57.8	58.2	266.2	263.1	1	36	95.2	98.7	54.3	54.9				
1575	5.0	44.6	44.9	269.8	264.7	1	26	83.1	87.6	48.4	48.0	4.9	1151		
		46.4	46.5	271.5	266.7	1	36	84.7	89.4	46.7	46.4				
		48.2	48.1	273.2	268.7	1	46	86.3	91.4	44.9	44.8				
804	4.3	57.8	58.2	266.2	263.1	1	36	85.9	88.6	61.4	61.2	3.2	241		
		59.5	59.8	268.0	265.1	1	46	87.6	90.5	59.6	59.5				
		61.3	61.4	269.8	267.1	1	56	89.3	92.5	57.9	57.9				
1565	4.8	56.9	56.9	271.3	268.0	1	53	82.9	85.8	60.4	59.9	3.2	254		
		58.7	58.5	273.0	270.0	2	3	84.6	87.6	58.7	58.3				
		60.4	60.1	274.7	271.9	2	13	86.2	89.5	56.9	56.7				
823	5.1	56.8	56.6	274.7	271.5	2	24	78.8	81.6	60.6	59.9	3.9	282		
		58.6	58.2	276.4	273.3	2	34	80.4	83.4	58.9	58.2				
		60.4	59.8	278.0	275.2	2	44	82.0	85.2	57.1	56.6				
862	3.7	49.6	50.2	265.3	261.1	2	35	90.0	93.8	53.0	53.2	3.2	254		
		51.3	51.8	267.2	263.2	2	45	91.8	95.8	51.2	51.6				
		53.1	53.4	269.0	265.3	2	55	93.7	97.9	49.5	50.0				
860	4.7	47.0	48.0	261.0	256.5	2	48	92.4	96.4	50.7	51.1	3.2	254		
		48.8	49.6	263.0	258.7	2	58	94.2	98.5	48.9	49.5				
		50.5	51.2	264.9	260.9	3	8	96.2	100.7	47.2	47.9				
859	4.1	55.6	55.8	269.9	266.5	3	2	84.9	87.9	59.4	59.1	3.7	254		
		57.4	57.4	271.6	268.4	3	12	86.6	89.8	57.6	57.5				
		59.1	59.0	273.4	270.4	3	22	88.4	91.8	55.8	55.8				
870	2.6	51.7	51.6	273.2	269.2	3	13	83.2	86.7	55.3	54.9	1.2	295		
		53.5	53.2	274.9	271.2	3	23	84.9	88.6	53.6	53.3				
		55.2	54.8	276.5	273.0	3	33	86.5	90.5	51.8	51.7				
1629	4.8	46.1	47.0	262.5	257.8	3	25	88.8	93.0	49.9	50.0	3.9	262		
		47.9	48.6	264.4	261.0	3	35	90.5	95.0	48.1	48.4				
		49.6	50.2	266.3	262.1	3	45	92.3	97.1	46.4	46.8				
1	2.2	43.6	44.1	266.8	261.6	3	35	84.5	89.2	47.3	47.0	2.0	287		
		45.4	45.7	268.6	263.7	3	45	86.2	91.1	45.6	45.4				
		47.1	47.3	270.4	265.8	3	55	87.8	93.0	43.8	43.8				
20	3.5	39.9	40.5	266.1	260.2	3	51	88.2	93.5	43.6	43.7	4.2	288		
		41.7	42.1	268.0	262.4	4	1	90.0	95.5	41.8	42.1				
		43.5	43.7	269.8	264.5	4	11	91.7	97.6	40.1	40.5				
858	5.2	57.5	59.1	264.8	261.6	4	2	87.7	90.5	61.0	61.0	4.7	1228		
		59.2	59.7	266.6	263.7	4	12	89.4	92.4	59.3	59.4				
		61.0	61.3	268.4	265.7	4	22	91.2	94.4	57.5	57.7				
1004	4.9	55.2	55.8	264.0	260.6	4	15	90.0	93.0	58.7	58.9	4.7	1228		
		56.9	57.4	265.9	262.7	4	25	91.8	95.0	57.0	57.3				
		58.7	59.0	267.7	264.7	4	35	93.6	97.0	55.2	55.7				
1629	4.8	57.2	57.0	273.9	270.7	4	28	81.0	83.8	60.7	60.1	4.6	1244		
		59.0	58.6	275.6	272.6	4	38	82.6	85.6	59.0	58.5				
		60.8	60.3	277.2	274.4	4	48	84.2	87.5	57.2	56.9				
45	4.7	43.3	44.1	263.1	257.9	4	38	92.7	97.3	46.9	47.4	5.2	1217		
		45.0	45.7	265.1	260.2	4	48	94.6	99.5	45.2	45.8				
		46.8	47.3	266.9	262.3	4	58	96.5	101.7	43.4	44.2				
27	4.3	53.1	53.4	268.5	264.7	4	51	84.7	88.0	56.7	56.4	4.6	1244		
		54.9	55.0	270.2	266.7	5	1	86.4	89.9	54.9	54.8				
		56.6	56.6	272.0	268.7	5	11	88.1	91.9	53.2	53.2				

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z.D.	Z.D.	LAT 45	LAT 50	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50		
27	4.3	55.6	55.6	270.9	267.5	5	5	82.6	85.6	59.3	56.8	4.1	371
		57.3	57.3	272.7	269.5	5	15	84.2	87.4	57.5	57.2		
		59.1	58.9	274.4	271.4	5	25	85.9	89.3	55.8	55.5		
1047	5.5	43.1	42.7	277.1	271.7	5	25	77.8	82.5	46.6	45.7	4.6	360
		44.9	44.3	278.6	273.5	5	35	79.2	84.3	44.8	44.1		
		46.6	45.9	280.1	275.3	5	45	80.7	86.0	43.1	42.5		
79	4.1	39.7	39.9	271.5	265.5	5	37	64.0	69.3	43.2	42.9	3.3	352
		41.5	41.5	273.2	267.5	5	47	65.6	71.2	41.5	41.3		
		43.3	43.1	274.8	269.5	5	57	67.2	73.2	39.7	39.7		
66	2.7	53.7	54.4	263.5	259.9	5	49	88.3	91.5	57.4	57.4	3.7	384
		55.5	56.0	265.3	262.0	5	59	90.0	93.5	55.6	55.8		
		57.2	57.6	267.2	264.0	6	9	91.8	95.5	53.8	54.2		
74	2.2	51.9	52.4	265.9	262.0	6	1	90.4	93.9	55.3	55.4	3.7	364
		53.6	54.0	267.7	264.1	6	11	92.2	95.9	53.5	53.8		
		55.4	55.6	269.5	266.1	6	21	94.0	97.9	51.7	52.2		
89	5.4	47.4	50.4	260.6	256.5	6	13	92.6	96.3	53.1	53.5	3.7	384
		51.2	52.0	262.6	258.7	6	23	94.4	98.3	51.4	51.9		
		52.9	53.5	264.5	260.8	6	33	96.3	100.5	49.6	50.3		
1082	5.0	40.9	40.7	275.0	269.2	6	29	78.9	83.9	44.6	43.9	4.4	390
		42.6	42.3	276.6	271.1	6	39	80.3	85.7	42.9	42.3		
		44.4	43.9	278.1	272.9	6	49	81.8	87.5	41.2	40.7		
114	4.5	53.4	54.3	261.3	257.7	7	0	93.3	96.6	56.8	57.3	2.6	422
		55.1	55.8	263.3	259.8	7	10	95.2	98.6	55.1	55.7		
		56.9	57.4	265.1	261.9	7	20	97.1	100.7	53.3	54.1		
114	4.5	56.3	57.0	264.6	261.3	7	17	90.5	93.4	60.0	60.2	4.5	1304
		58.1	58.5	266.4	263.4	7	27	92.3	95.4	58.3	58.6		
		59.9	60.1	268.3	265.4	7	37	94.2	97.4	56.5	57.0		
144	2.9	44.0	44.0	272.2	267.0	7	32	80.3	84.9	47.7	47.1	5.5	1300
		45.8	45.6	273.9	269.0	7	42	81.8	86.7	46.0	45.5		
		47.5	47.2	275.5	270.9	7	52	83.4	88.5	44.2	43.9		
136	3.8	53.3	53.6	268.5	264.7	7	49	85.0	88.3	56.9	56.6	4.8	1316
		55.0	55.2	270.2	266.7	7	59	86.7	90.2	55.1	55.0		
		56.8	56.9	272.0	268.7	8	9	88.4	92.1	53.4	53.4		
130	3.0	53.0	53.3	268.2	264.4	7	50	85.2	88.5	56.7	56.4	4.8	1318
		54.8	54.9	269.9	266.4	8	0	86.9	90.4	54.9	54.8		
		56.5	56.5	271.7	268.4	8	10	88.6	92.3	53.2	53.2		
142	3.8	52.9	53.2	268.0	264.2	7	51	85.4	88.7	56.5	56.3	4.8	1318
		54.7	54.8	269.9	266.2	8	1	87.0	90.6	54.8	54.7		
		56.4	56.5	271.5	268.2	8	11	88.8	92.5	53.0	53.1		
1112	4.5	54.2	54.7	266.2	262.6	8	7	89.0	92.1	57.9	56.0	4.8	1323
		56.0	56.3	268.0	264.7	8	17	90.7	94.1	56.2	56.4		
		57.8	57.9	269.8	266.7	8	27	92.5	96.1	54.4	54.8		
181	2.9	43.1	43.1	273.6	268.3	8	34	82.8	87.6	46.6	46.2	5.4	1322
		44.9	44.7	275.3	270.2	8	44	84.4	89.5	44.8	44.6		
		46.7	46.3	276.8	272.1	8	54	86.0	91.4	43.1	43.0		
181	2.9	45.1	44.8	275.4	270.4	8	45	76.8	81.1	48.9	48.0	5.1	1337
		46.8	46.4	277.0	272.3	8	55	78.2	82.9	47.2	46.4		
		48.6	48.0	278.6	274.1	9	5	79.7	84.6	45.5	44.8		
1158	4.5	42.9	43.7	263.5	258.2	9	11	92.5	97.2	46.5	47.0	5.1	1332
		44.6	45.3	265.4	261.4	9	21	94.4	99.3	44.8	45.4		
		46.4	46.9	267.3	262.6	9	31	96.3	101.5	43.0	43.8		
1158	4.5	44.6	45.3	265.4	260.4	9	21	90.3	94.8	48.1	48.4	4.3	492
		46.4	46.9	267.3	262.6	9	31	92.1	96.8	46.4	46.8		
		48.2	48.4	269.1	264.7	9	41	94.0	99.0	44.6	45.2		
202	1.8	52.9	52.6	275.3	271.5	9	44	78.4	81.7	56.7	55.8	3.8	534
		54.7	54.2	276.9	273.4	9	54	80.0	83.5	54.9	54.2		
		56.4	55.8	278.5	275.2	10	4	81.5	85.3	53.2	52.6		
1158	4.5	50.8	50.9	271.8	267.7	9	56	80.3	83.9	54.6	53.9	3.8	534
		52.6	52.5	273.5	269.6	10	6	81.9	85.7	52.8	52.3		
		54.4	54.1	275.1	271.5	10	16	83.4	87.5	51.1	50.7		
254	3.2	46.9	47.7	263.6	259.0	10	16	92.6	96.7	50.5	50.9	4.8	522
		48.7	49.3	265.5	261.2	10	26	94.4	98.8	48.7	49.3		
		50.5	50.9	267.4	263.3	10	36	96.4	100.9	46.9	47.7		
1158	4.5	56.1	55.7	276.8	273.4	10	26	77.5	80.4	59.9	56.9	3.7	572
		57.9	57.3	278.4	275.2	10	36	79.0	82.1	58.1	57.3		
		59.6	58.9	280.0	277.0	10	46	80.6	83.9	56.4	55.7		
1182	5.2	48.0	48.7	263.1	258.7	10	37	89.0	92.9	51.7	51.8	4.9	1383
		49.7	50.3	265.0	260.9	10	47	90.7	94.9	50.0	50.2		
		51.5	51.9	266.9	263.0	10	57	92.6	97.0	48.2	48.6		

CATNO	MAG	WEST STAR Z. C.		AZ		LST		AZ		EAST STAR Z. C.		MAG	CATNO
		LAT 45	LAT 50	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50	LAT 45	LAT 50		
1182	5.2	49.7	50.3	265.9	260.9	10	47	86.7	90.4	53.4	53.3	4.7	557
		51.5	51.9	266.9	263.0	10	57	88.4	92.3	51.7	51.7		
		53.2	53.5	268.7	265.0	11	7	90.1	94.3	49.9	50.1		
279	3.5	49.8	50.7	261.3	257.2	10	57	89.9	93.6	53.4	53.6	5.0	1396
		51.5	52.3	263.3	259.4	11	7	91.7	95.7	51.7	52.0		
		53.3	53.9	265.2	261.5	11	17	93.6	97.7	49.9	50.4		
286	4.2	44.2	44.2	272.4	267.2	11	8	81.6	86.1	48.0	47.5	3.5	563
		45.9	45.8	274.0	269.2	11	18	83.1	87.9	46.2	45.8		
		47.7	47.4	275.7	271.1	11	28	84.7	89.8	44.5	44.2		
1207	5.0	44.6	45.3	263.9	259.0	11	18	92.1	96.6	47.9	48.3	4.7	557
		46.3	46.9	265.8	261.1	11	28	94.0	98.7	46.2	46.7		
		48.1	48.5	267.7	263.3	11	38	95.9	100.9	44.4	45.1		
305	5.0	44.6	45.2	265.8	260.9	11	32	88.1	92.6	48.3	48.4	3.7	572
		46.4	46.8	267.7	263.0	11	42	89.9	94.6	46.6	46.7		
		48.2	48.4	269.5	265.1	11	52	91.7	96.7	44.8	45.1		
1207	5.0	49.2	49.4	269.8	264.5	11	44	87.4	91.2	52.8	52.7	4.2	553
		50.9	51.0	270.6	266.5	11	54	89.1	93.2	51.0	51.1		
		52.7	52.7	272.3	268.5	12	4	90.9	95.2	49.3	49.5		
328	4.2	40.7	41.5	263.3	257.6	11	56	92.4	97.5	44.1	44.5	3.7	572
		42.4	43.1	265.2	259.9	12	6	94.3	99.7	42.3	42.9		
		44.2	44.7	267.1	262.0	12	16	96.2	101.9	40.6	41.3		
295	1.2	53.7	53.4	275.3	271.6	12	6	77.0	80.1	57.5	56.5	3.0	634
		55.5	55.0	276.9	273.4	12	16	78.5	81.0	55.8	54.9		
		57.2	56.6	278.5	275.3	12	26	80.0	83.7	54.0	53.3		
294	3.7	58.2	58.0	274.0	270.9	12	18	82.1	84.8	61.7	61.2	3.2	641
		60.1	59.6	275.6	272.7	12	28	83.7	86.7	60.0	59.6		
		61.7	61.2	277.3	274.6	12	38	85.4	88.5	58.2	58.0		
328	4.2	47.2	47.4	270.2	265.6	12	33	81.4	85.5	51.1	50.5	5.4	1441
		49.0	49.0	271.9	267.6	12	43	83.0	87.3	49.3	48.9		
		50.7	50.6	273.6	269.5	12	53	84.6	89.2	47.6	47.3		
1239	5.2	49.3	50.3	261.0	256.8	12	44	90.6	94.4	53.2	53.4	5.2	1440
		51.1	51.9	262.9	259.0	12	54	92.4	96.4	51.4	51.8		
		52.8	53.4	264.8	261.1	13	4	94.3	98.5	49.6	50.2		
1239	5.2	51.4	52.2	263.3	259.4	12	56	88.5	92.0	55.0	55.1	3.2	641
		53.2	53.8	265.2	261.5	13	6	90.2	94.0	53.3	53.5		
		54.9	55.3	267.1	263.6	13	16	92.0	96.0	51.5	51.9		
328	4.2	53.7	53.3	276.4	272.7	13	10	79.6	82.8	57.4	56.6	3.8	674
		55.5	54.9	278.0	274.6	13	20	81.2	84.6	55.7	55.0		
		57.2	56.5	279.6	276.4	13	30	82.8	86.4	53.9	53.4		
367	3.1	48.6	49.4	263.2	259.9	13	23	89.2	93.1	52.3	52.4	4.5	1469
		50.4	51.0	265.1	261.1	13	33	91.0	95.1	50.5	50.9		
		52.1	52.6	267.0	263.1	13	43	92.8	97.2	48.7	49.2		
371	4.1	48.1	48.6	266.5	262.1	13	35	87.0	90.9	51.9	51.9	3.5	667
		49.9	50.2	268.3	264.2	13	45	88.7	92.8	50.2	50.2		
		51.6	51.8	270.1	266.2	13	55	90.4	94.9	48.4	48.6		
1275	4.8	39.8	39.3	267.4	261.3	13	48	88.2	93.7	42.4	42.4	5.4	1456
		40.5	40.9	269.2	263.4	13	58	90.0	95.8	40.6	40.8		
		42.3	42.5	271.0	265.5	14	8	91.8	97.9	38.8	39.2		
390	4.4	40.4	40.0	277.6	271.7	14	9	78.6	83.8	44.0	43.3	4.0	672
		42.1	41.6	279.1	273.5	14	10	80.0	85.6	42.3	41.7		
		43.9	43.2	280.5	275.3	14	20	81.5	87.4	40.6	40.1		
371	4.1	55.0	54.9	273.4	269.9	14	14	79.4	82.5	58.6	57.9	5.5	1456
		56.8	56.5	275.1	271.8	14	24	81.0	84.3	56.9	56.3		
		58.5	58.1	276.7	273.7	14	34	82.6	86.1	55.1	54.7		
371	4.1	57.3	56.9	275.6	272.4	14	27	78.3	81.1	61.0	60.1	3.2	732
		59.1	58.6	277.2	274.2	14	37	79.9	82.9	59.2	58.5		
		60.8	60.2	278.9	276.0	14	47	81.5	84.7	57.5	56.9		
394	3.7	57.0	57.0	271.3	268.1	14	40	83.7	86.5	60.4	60.0	4.6	1506
		58.8	58.6	273.1	270.0	14	50	85.4	88.4	58.7	58.4		
		60.5	60.2	274.8	271.9	15	0	87.0	90.3	56.9	56.8		
425	3.7	42.6	42.6	273.3	267.8	14	53	83.2	88.0	46.2	45.8	3.8	705
		44.4	44.2	274.9	269.8	15	3	84.8	89.9	44.4	44.2		
		46.1	45.8	276.5	271.7	15	13	86.4	91.9	42.7	42.6		
425	3.7	46.0	45.6	276.3	271.5	15	12	78.6	82.8	49.6	48.8	4.9	1510
		47.7	47.2	277.9	273.3	15	22	80.1	84.6	47.8	47.2		
		49.5	48.8	279.4	275.1	15	32	81.6	86.4	46.1	45.6		
1300	5.5	43.7	43.4	276.2	270.9	15	25	80.5	85.1	47.3	46.7	4.9	1510
		45.4	45.0	277.7	272.8	15	35	82.0	86.9	45.6	45.1		
		47.2	46.6	279.2	274.6	15	45	83.6	88.8	43.8	43.5		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 45	LAT 50	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50	LAT 45	LAT 50		
1318	4.8	44.2	45.1	261.9	256.9	15	42	90.7	95.2	47.8	48.1	3.2	732
		45.9	46.7	263.9	259.2	15	52	92.5	97.3	46.0	46.5		
		47.7	48.3	265.8	261.3	16	2	94.4	99.5	44.3	44.9		
1304	4.5	57.2	57.7	266.6	263.4	16	1	88.7	91.5	60.7	60.7	4.8	1535
		59.0	59.3	268.4	265.4	16	11	90.4	93.4	58.9	59.1		
		60.8	60.9	270.2	267.4	16	21	92.2	95.4	57.2	57.5		
1323	4.8	49.2	50.0	261.8	257.7	16	11	91.1	94.8	52.9	53.1	5.5	760
		50.9	51.6	263.8	259.8	16	21	92.9	96.9	51.1	51.5		
		52.7	53.2	265.7	261.9	16	31	94.8	99.0	49.3	49.9		
1332	5.1	45.6	46.1	266.5	261.6	16	25	85.5	89.8	49.2	49.0	4.1	1534
		47.3	47.7	268.3	263.8	16	35	87.1	91.7	47.4	47.4		
		49.1	49.3	270.1	265.8	16	45	88.8	93.7	45.6	45.8		
492	4.3	43.6	44.2	264.9	259.8	16	35	87.1	91.7	47.4	47.4	4.1	1534
		45.3	45.8	266.8	261.9	16	45	88.8	93.7	45.6	45.8		
		47.1	47.4	268.6	264.0	16	55	90.6	95.8	43.9	44.2		
1332	5.1	40.5	49.6	270.5	266.2	16	47	82.2	85.9	53.0	52.5	3.4	797
		51.2	51.2	272.2	268.2	16	57	83.8	87.8	51.3	50.9		
		53.0	52.8	273.9	270.1	17	7	85.4	89.7	49.5	49.3		
492	4.3	47.4	47.7	269.0	264.4	16	57	83.8	87.8	51.3	50.9	3.4	797
		49.2	49.3	270.8	266.5	17	7	85.4	89.7	49.5	49.3		
		51.0	50.9	272.5	268.4	17	17	87.1	91.6	47.8	47.7		
492	4.3	50.8	50.8	272.7	268.2	17	16	81.0	84.6	54.5	53.8	5.0	1575
		52.6	52.4	274.0	270.2	17	26	82.6	86.4	52.7	52.2		
		54.3	54.0	275.7	272.1	17	36	84.2	88.2	51.0	50.6		
492	4.3	55.4	55.0	276.7	273.2	17	42	76.8	79.7	59.1	58.1	3.1	857
		57.1	56.6	278.7	275.0	17	52	78.3	81.5	57.4	56.5		
		58.9	58.2	279.9	276.8	18	2	79.8	83.3	55.7	54.9		
534	3.8	43.9	44.1	269.7	264.5	18	5	82.3	86.9	47.7	47.2	4.4	835
		45.6	45.7	271.4	266.5	18	15	83.9	88.7	45.9	45.6		
		47.4	47.3	273.1	268.5	18	25	85.5	90.6	44.2	44.0		
534	3.8	45.8	45.9	271.6	266.7	18	16	81.6	85.9	49.6	49.1	5.5	1590
		47.6	47.5	273.3	268.7	18	26	83.2	87.7	47.9	47.5		
		49.3	49.1	274.9	270.6	18	36	84.7	89.6	46.1	45.9		
1387	4.5	45.8	46.0	270.6	265.7	18	17	81.7	86.0	49.4	48.9	5.5	1590
		47.6	47.6	272.3	267.7	18	27	83.3	87.9	47.7	47.3		
		49.4	49.2	274.0	269.7	18	37	84.9	89.8	45.9	45.7		
1387	4.5	47.6	47.6	272.3	267.7	18	27	83.8	87.8	51.3	50.9	3.1	857
		49.4	49.2	274.0	269.7	18	37	85.4	89.7	49.5	49.3		
		51.1	50.8	275.6	271.6	18	47	87.1	91.6	47.8	47.7		
576	4.2	38.3	39.0	265.7	259.5	18	38	87.6	93.2	41.9	41.9	4.4	835
		40.1	40.6	267.6	261.7	18	48	89.4	95.3	40.1	40.3		
		41.9	42.2	269.4	263.8	18	58	91.1	97.4	38.4	38.7		
572	3.7	43.2	43.7	266.7	261.4	18	53	88.1	92.8	46.7	46.8	3.1	857
		45.0	45.3	268.5	263.6	19	3	89.8	94.8	45.0	45.2		
		46.7	46.9	270.3	265.6	19	13	91.6	96.9	43.2	43.6		
570	2.3	45.7	46.4	265.1	260.3	19	6	89.1	93.4	49.3	48.5	2.6	870
		47.5	47.9	267.0	262.5	19	16	90.9	95.4	47.6	47.9		
		49.3	49.5	268.8	264.5	19	26	92.7	97.5	45.8	46.3		
593	4.2	43.7	44.5	263.2	258.1	19	18	91.2	95.8	47.2	47.5	2.6	870
		45.5	46.1	265.1	260.3	19	28	93.1	97.9	45.5	45.9		
		47.2	47.7	267.0	262.4	19	38	95.0	100.1	43.7	44.4		
578	2.3	51.0	51.1	270.6	266.6	19	36	82.3	85.9	54.8	54.3	2.2	1
		52.8	52.7	272.3	268.5	19	46	83.9	87.7	53.1	52.7		
		54.6	54.4	274.0	270.5	19	56	85.6	89.6	51.3	51.1		
572	3.7	53.3	52.8	276.5	272.8	19	50	79.0	81.2	56.7	55.8	3.5	20
		55.1	54.5	278.1	274.6	20	0	80.5	83.0	55.0	54.2		
		56.8	56.1	279.7	276.4	20	10	81.0	84.8	53.2	52.6		
593	4.2	51.6	51.7	271.5	267.5	20	3	81.6	85.1	55.3	54.7	4.5	19
		53.4	53.3	273.2	269.5	20	13	83.2	86.9	53.5	53.1		
		55.2	54.9	274.9	271.4	20	23	84.8	88.8	51.7	51.5		
578	2.3	57.9	57.4	277.2	274.0	20	15	79.9	81.6	61.5	60.7	4.7	45
		59.6	59.0	279.8	275.8	20	25	80.5	83.4	59.8	59.1		
		61.4	60.6	281.4	277.6	20	35	82.1	85.3	58.0	57.5		
593	4.2	55.9	55.5	275.5	272.1	20	27	80.8	83.8	59.4	58.8	4.7	45
		57.6	57.2	277.2	274.0	20	37	82.4	85.6	57.7	57.2		
		59.4	58.8	278.8	275.8	20	47	84.1	87.5	55.9	55.6		
1446	5.3	42.7	42.6	274.0	268.6	20	38	82.7	87.5	46.3	45.9	4.5	18
		44.4	44.2	275.6	270.5	20	48	84.3	89.4	44.6	44.3		
		46.2	45.8	277.2	272.4	20	58	85.9	91.3	42.8	42.7		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 45	LAT 50	LAT 45	LAT 50	HRS	MIN	LAT 45	LAT 50	LAT 45	LAT 50		
1449	5.2	51.8	52.1	267.9	264.0	20	50	84.6	88.0	55.4	55.1	4.7	45
		53.5	53.7	269.7	266.1	21	0	86.2	89.9	53.6	53.5		
		55.3	55.3	271.5	268.0	21	10	87.9	91.9	51.9	51.9		
641	3.2	49.7	50.2	266.0	261.9	21	2	86.6	90.3	53.3	55.2	4.7	45
		51.4	51.8	267.9	263.9	21	12	88.3	92.3	51.5	51.6		
		53.2	53.4	269.7	266.0	21	22	90.0	94.2	49.8	50.0		
1460	4.5	47.9	48.4	266.7	261.8	21	12	88.3	92.3	51.5	51.6	4.7	45
		49.6	50.0	268.1	263.9	21	22	90.0	94.2	49.8	50.0		
		51.4	51.6	269.9	265.9	21	32	91.8	96.3	48.0	48.4		
674	3.8	43.0	43.5	266.6	261.3	21	22	88.3	93.1	46.7	46.8	4.7	43
		44.7	45.1	268.4	263.4	21	32	90.1	95.1	44.9	45.2		
		46.5	46.7	270.2	265.5	21	42	91.9	97.2	43.2	43.6		
667	3.5	49.2	48.4	269.3	264.9	21	35	84.1	88.1	52.0	51.7	3.6	64
		49.9	50.0	271.1	266.9	21	45	85.8	90.0	50.2	50.1		
		51.7	51.6	272.8	268.8	21	55	87.5	91.9	48.5	48.5		
641	3.2	57.6	57.4	274.0	270.9	21	47	79.2	81.9	61.2	60.4	3.7	100
		59.4	59.0	275.7	272.7	21	57	80.7	83.7	59.5	58.8		
		61.1	60.6	277.3	274.6	22	7	82.4	85.5	57.8	57.2		
1460	4.5	55.8	55.6	274.2	270.8	21	57	80.7	83.7	59.5	58.8	3.7	100
		57.6	57.2	275.9	272.7	22	7	82.4	85.5	57.8	57.2		
		59.3	58.8	277.5	274.5	22	17	84.0	87.4	56.0	55.6		
1469	5.5	53.8	53.8	272.7	269.5	22	10	82.8	86.1	57.2	56.8	3.7	100
		55.6	55.4	273.9	270.4	22	20	84.5	87.9	55.5	55.1		
		57.3	57.0	275.5	272.3	22	30	86.1	89.8	53.7	53.5		
755	3.9	42.0	42.0	273.9	267.4	22	22	83.1	88.0	45.6	45.2	4.1	79
		43.8	43.6	274.6	269.4	22	32	84.7	89.9	43.8	43.6		
		45.6	45.2	276.2	271.3	22	42	86.3	91.8	42.1	42.0		
1489	4.9	48.4	48.8	267.7	263.3	22	32	87.1	91.1	51.9	51.9	4.6	94
		50.1	50.4	269.5	265.3	22	42	88.9	93.0	50.2	50.3		
		51.9	52.0	271.3	267.3	22	52	90.6	95.0	48.4	48.7		
1491	4.4	56.0	56.9	261.8	258.5	22	45	91.9	94.8	59.7	60.0	4.5	114
		57.8	58.4	263.7	260.6	22	55	93.8	96.8	57.9	58.4		
		59.5	60.0	265.6	262.7	23	5	95.6	98.9	56.2	56.8		
1510	4.9	41.3	41.2	274.2	269.5	23	3	81.4	86.4	45.0	44.5	5.0	1082
		43.1	42.8	275.8	270.4	23	13	82.9	88.2	43.2	42.9		
		44.9	44.4	277.4	272.3	23	23	84.4	90.1	41.5	41.3		
1521	4.1	39.2	39.2	273.3	267.2	23	17	83.5	90.0	42.5	42.2	5.0	1082
		40.9	40.8	274.9	269.1	23	27	85.1	90.9	40.6	40.6		
		42.7	42.4	276.5	271.1	23	37	86.7	92.9	39.0	39.0		
1521	4.1	44.1	43.6	277.7	272.5	23	45	78.0	82.6	47.8	46.9	4.1	148
		45.8	45.3	279.2	274.4	23	55	79.5	84.3	46.0	45.3		
		47.6	46.9	280.7	276.1	24	5	80.9	86.1	44.3	43.7		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNC
		LAT 50	LAT 55	LAT 50	LAT 55	HRS	MIN	LAT 50	LAT 55	LAT 50	LAT 55		
1534	4.1	43.3	44.2	263.1	258.0	23	57	89.7	94.4	46.7	46.9	2.9	144
		44.9	45.6	265.2	260.3	0	7	91.7	96.6	45.1	45.5		
		46.5	47.0	267.2	262.6	0	17	93.7	98.8	43.5	44.1		
780	2.6	39.9	40.5	265.8	259.9	0	7	86.4	91.7	43.4	43.3	4.1	148
		41.5	41.9	267.8	262.2	0	17	88.3	93.8	41.8	41.9		
		43.1	43.4	269.8	264.5	0	27	90.2	96.0	40.2	40.5		
780	2.6	42.1	42.5	268.6	263.1	0	21	86.4	91.4	45.4	45.3	5.1	158
		43.7	43.9	270.5	265.3	0	31	88.3	93.5	43.8	43.8		
		45.3	45.4	272.4	267.5	0	41	90.2	95.7	42.1	42.4		
1523	4.7	55.1	55.0	272.9	269.4	0	31	82.1	85.2	58.2	57.7	1.8	202
		56.7	56.4	274.7	271.4	0	41	83.9	87.2	56.6	56.2		
		58.3	57.9	276.5	273.4	0	51	85.7	89.2	55.0	54.8		
797	3.4	44.5	45.2	264.3	259.4	0	47	86.0	90.5	47.9	47.8	2.9	181
		46.1	46.6	266.4	261.6	0	57	87.8	92.6	46.3	46.3		
		47.7	48.0	268.4	263.8	1	7	89.7	94.7	44.7	44.9		
1539	4.8	57.9	58.5	265.1	262.0	0	57	90.9	93.7	61.1	61.3	3.0	211
		59.5	59.9	267.1	264.2	1	7	92.9	95.8	59.5	59.9		
		61.1	61.3	269.1	266.3	1	17	94.9	97.9	57.9	58.5		
797	3.4	47.7	48.0	268.4	263.8	1	7	84.1	88.2	51.1	50.7	4.9	1151
		49.3	49.5	270.3	266.1	1	17	85.9	90.2	49.5	49.3		
		50.9	50.9	272.2	268.1	1	27	87.8	92.3	47.9	47.9		
1575	5.0	44.7	45.4	264.5	259.6	1	25	87.4	91.9	48.2	48.2	4.9	1151
		46.3	46.8	266.5	261.8	1	35	89.3	94.0	46.6	46.7		
		47.9	48.2	268.5	264.0	1	45	91.2	96.1	45.0	45.3		
823	5.1	49.2	50.0	262.3	258.1	1	38	90.3	94.2	52.5	52.7	4.5	1158
		50.8	51.5	264.4	260.4	1	48	92.3	96.3	50.9	51.3		
		52.4	52.9	266.4	262.6	1	58	94.3	98.5	49.3	49.8		
1565	4.8	56.8	57.1	267.8	264.6	1	52	85.6	88.5	60.1	59.8	3.2	254
		58.4	58.5	269.8	266.7	2	2	87.4	90.5	58.5	58.4		
		60.0	60.0	271.7	268.8	2	12	89.3	92.6	56.9	56.9		
835	4.4	48.0	47.9	274.0	269.5	2	18	80.8	84.8	51.3	50.7	3.6	261
		49.6	49.3	275.8	271.5	2	28	82.5	86.8	49.8	49.3		
		51.2	50.7	277.5	273.5	2	38	84.3	88.8	48.2	47.8		
831	4.0	55.5	55.8	269.3	265.8	2	29	82.5	85.5	59.0	58.4	3.9	282
		57.2	57.2	271.2	267.9	2	39	84.3	87.5	57.4	57.0		
		58.8	58.6	273.1	270.0	2	49	86.1	89.5	55.8	55.6		
859	4.1	52.4	53.3	262.2	259.5	2	41	82.1	85.5	55.8	56.2	5.2	1182
		54.0	54.7	264.2	260.7	2	51	84.1	87.7	54.2	54.7		
		55.6	56.1	266.3	262.9	3	1	86.1	89.9	52.6	53.3		
857	3.1	50.0	50.1	271.0	266.8	2	51	82.3	85.0	53.3	52.8	4.2	286
		51.6	51.5	272.9	268.9	3	1	84.0	86.7	51.7	51.3		
		53.2	52.9	274.7	271.0	3	11	85.8	88.0	50.1	49.9		
857	3.1	50.3	50.3	271.4	267.3	2	53	81.6	85.2	53.8	53.2	2.0	287
		51.9	51.8	273.3	269.3	3	3	83.3	87.2	52.2	51.8		
		53.5	53.2	275.1	271.4	3	13	85.1	89.2	50.6	50.3		
859	4.1	55.8	56.2	266.5	263.1	3	2	87.9	90.9	59.1	59.0	3.7	294
		57.4	57.7	268.4	265.2	3	12	89.8	93.0	57.5	57.6		
		59.0	59.1	270.4	267.4	3	22	91.8	95.1	55.8	56.1		
877	2.6	51.6	51.8	269.2	265.3	3	13	86.7	90.2	54.9	54.8	1.2	295
		53.2	53.3	271.2	267.4	3	23	88.6	92.3	53.3	53.3		
		54.8	54.7	273.0	269.5	3	33	90.5	94.4	51.7	51.9		
1	2.2	43.5	44.5	260.7	255.6	3	31	89.5	94.2	46.9	47.0	4.2	286
		45.1	45.9	262.9	258.3	3	41	91.5	96.4	45.3	45.6		
		46.7	47.3	264.9	260.3	3	51	93.5	98.6	43.7	44.2		
1	2.2	43.8	44.8	261.1	256.1	3	33	89.8	93.4	47.4	47.5	2.0	287
		45.4	46.2	263.3	258.5	3	43	91.7	95.5	45.8	46.0		
		47.0	47.6	265.3	260.8	3	53	93.6	97.7	44.2	44.6		
877	2.6	56.3	56.0	274.7	271.3	3	42	80.2	83.2	59.5	58.8	4.2	328
		57.9	57.4	276.5	273.3	3	52	82.0	85.1	58.0	57.4		
		59.5	58.9	278.3	275.3	4	2	83.8	87.1	56.4	56.0		
1629	4.8	51.3	52.0	263.6	259.6	3	52	88.2	91.7	54.8	54.8	5.2	1217
		52.9	53.4	265.6	261.9	4	2	90.1	93.8	53.2	53.3		
		54.5	54.8	267.6	264.0	4	12	92.0	96.0	51.5	51.9		
1004	4.9	55.7	56.6	260.4	257.1	4	14	92.8	95.8	59.0	59.4	4.7	1228
		57.3	58.0	262.5	259.3	4	24	94.8	97.9	57.4	57.0		
		58.9	59.5	264.5	261.5	4	34	96.8	100.1	55.8	56.0		
1629	4.8	56.9	57.0	270.5	267.2	4	27	83.6	86.5	60.2	59.8	4.6	1244
		58.5	58.4	272.4	269.3	4	37	85.4	88.5	58.6	58.4		
		60.1	59.8	274.2	271.3	4	47	87.3	90.5	57.0	56.9		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 50 LAT 55	LAT 50 LAT 55	HRS MIN	LAT 50 LAT 55	Z. D.	LAT 50 LAT 55					
18	4.5	47.9	47.7	274.8	270.2	4	46	80.2	84.3	51.1	50.4	3.3	352
		49.5	49.1	276.5	272.3	4	56	81.9	86.2	49.5	49.0		
		51.1	50.5	278.3	274.2	5	6	83.7	88.2	47.9	47.5		
27	4.3	55.5	55.9	267.3	263.9	5	4	85.4	88.4	58.9	56.6	4.1	371
		53.1	57.3	269.3	266.0	5	14	87.2	90.4	57.3	57.2		
		58.7	58.7	271.2	268.1	5	24	89.1	92.5	55.7	55.8		
1047	5.5	42.6	42.7	271.5	266.1	5	24	87.4	87.2	45.9	45.4	4.6	360
		44.2	44.1	273.3	268.2	5	34	84.1	89.2	44.3	44.0		
		45.8	45.5	275.1	270.3	5	44	85.9	91.3	42.7	42.6		
79	4.1	39.7	40.4	265.3	259.4	5	36	89.1	94.5	43.1	43.2	3.3	352
		41.3	41.8	267.3	261.7	5	46	91.0	96.7	41.5	41.8		
		42.9	43.2	269.3	263.9	5	56	93.0	98.9	39.9	40.4		
66	2.7	54.3	55.3	259.7	256.2	5	48	91.3	94.5	57.5	57.8	3.7	384
		55.9	56.7	261.7	258.5	5	58	93.3	96.6	55.9	56.3		
		57.4	58.1	263.8	260.7	6	8	95.3	98.8	54.3	54.9		
74	2.2	52.2	53.1	261.8	258.1	6	0	93.7	97.0	55.6	56.1	3.7	384
		53.8	54.5	263.9	260.3	6	10	95.7	99.2	54.0	54.6		
		55.4	55.9	265.9	262.5	6	20	97.7	101.5	52.4	53.2		
1070	5.4	42.5	42.4	273.1	267.7	6	17	81.9	86.8	45.8	45.3	4.4	390
		44.1	43.9	274.9	269.7	6	27	83.6	88.8	44.2	43.9		
		45.7	45.3	276.7	271.8	6	37	85.3	90.8	42.6	42.4		
1082	5.1	47.7	41.0	269.2	263.4	6	29	83.9	89.2	43.9	43.6	4.4	390
		42.3	42.4	271.1	265.6	6	39	85.7	91.2	42.3	42.2		
		43.9	43.9	272.9	267.7	6	49	87.5	93.3	40.7	40.7		
109	3.7	40.4	40.1	275.9	270.0	6	47	77.3	82.5	43.9	43.0	5.1	1282
		42.0	41.6	277.6	272.0	6	57	78.9	84.4	42.3	41.6		
		43.6	43.0	279.3	274.0	7	7	80.5	86.3	40.7	40.1		
144	2.9	40.0	41.0	261.8	256.0	7	7	89.0	94.3	43.4	43.6	3.9	412
		41.6	42.4	263.9	258.4	7	17	91.0	96.5	41.8	42.1		
		43.2	43.8	266.0	260.8	7	27	92.9	98.8	40.2	40.7		
114	4.5	57.0	57.8	261.3	258.2	7	17	93.4	96.2	60.2	60.6	4.5	1304
		59.5	59.3	263.4	260.4	7	27	95.4	98.4	58.6	59.2		
		60.1	60.7	265.4	262.5	7	37	97.4	100.6	57.0	57.8		
144	2.9	43.9	44.4	266.8	261.7	7	31	84.7	89.3	47.2	47.0	5.5	1300
		45.5	45.8	268.8	263.9	7	41	86.5	91.4	45.6	45.5		
		47.1	47.2	270.7	266.1	7	51	88.3	93.5	44.0	44.1		
136	3.8	53.4	54.0	264.5	260.9	7	48	89.1	91.4	56.8	56.7	4.8	1318
		55.0	55.5	266.6	263.1	7	58	90.0	93.5	55.1	55.3		
		56.6	56.9	268.5	265.2	8	8	91.9	95.6	53.5	53.9		
139	3.0	53.2	53.8	264.2	260.5	7	49	88.3	91.6	56.6	56.6	4.8	1318
		54.8	55.2	266.2	262.7	7	59	90.2	93.7	55.0	55.2		
		56.4	56.7	268.2	264.9	8	9	92.1	95.8	53.4	53.7		
142	3.8	53.1	53.8	264.0	260.4	7	50	88.5	91.8	56.4	56.4	4.8	1318
		54.7	55.2	266.0	262.6	8	0	90.4	93.9	54.8	55.0		
		56.3	56.6	268.0	264.7	8	10	92.3	96.0	53.2	53.6		
1112	4.5	54.7	55.5	262.6	259.2	8	7	92.1	95.2	58.0	56.3	4.8	1323
		56.3	56.9	264.7	261.4	8	17	94.1	97.3	56.4	56.9		
		57.9	58.4	266.7	263.6	8	27	96.1	99.5	54.8	55.4		
1133	5.1	39.8	39.8	272.7	266.7	8	23	80.5	85.9	43.2	42.6	5.2	461
		41.4	41.2	274.5	268.8	8	33	82.2	87.8	41.6	41.2		
		43.0	42.7	276.2	270.9	8	43	83.9	89.8	40.0	39.7		
181	2.9	43.1	43.4	268.3	263.0	8	34	87.6	92.4	46.2	46.2	5.4	1322
		44.7	44.9	270.2	265.2	8	44	89.5	94.5	44.6	44.8		
		46.3	46.3	272.1	267.3	8	54	91.4	96.7	43.0	43.3		
181	2.9	44.7	44.9	270.2	265.2	8	44	89.5	94.5	44.6	44.8	5.1	1337
		46.3	46.3	272.1	267.3	8	54	91.4	96.7	43.0	43.3		
		47.9	47.7	273.9	269.4	9	4	82.7	87.4	46.5	46.1		
174	4.3	58.2	58.4	268.5	265.4	9	10	83.9	86.7	61.5	61.0	4.8	522
		59.8	59.9	270.4	267.5	9	20	85.8	88.7	59.9	59.6		
		61.4	61.3	272.3	269.6	9	30	87.6	90.7	58.3	58.2		
202	1.8	52.6	52.6	271.5	267.7	9	44	81.7	85.1	55.8	55.2	3.8	534
		54.2	54.1	273.4	269.7	9	54	83.5	87.1	54.2	53.8		
		55.8	55.5	275.2	271.8	10	4	85.3	89.1	52.6	52.4		
202	1.8	52.9	52.9	271.9	268.1	9	46	82.1	85.5	56.4	55.8	4.5	1360
		54.5	54.4	273.7	270.1	9	56	83.9	87.5	54.8	54.4		
		56.1	55.8	275.5	272.2	10	6	85.7	89.5	53.2	53.0		
1158	4.5	50.7	51.1	267.5	263.4	9	55	83.7	87.3	54.1	53.7	3.8	534
		52.3	52.5	269.4	265.6	10	5	85.5	89.3	52.5	52.2		
		53.9	53.9	271.3	267.7	10	15	87.3	91.4	50.9	50.8		

CATAC	MAG	WEST STAR				LST		EAST STAR				MAG	CATAC
		Z. D.		AZ		HRS	MIN	Z. D.		AZ			
		LAT 50	LAT 55	LAT 50	LAT 55					LAT 50	LAT 55	LAT 50	LAT 55
1168	4.5	48.3	48.6	267.9	263.5	10	10	86.4	90.4	51.7	51.5	3.8	534
		49.9	50.1	269.9	265.7	10	20	88.3	92.4	50.1	50.1		
		51.5	51.5	271.8	267.8	10	30	90.1	94.6	48.4	48.7		
1158	4.5	55.7	55.5	273.4	270.0	10	26	80.4	83.4	58.9	58.2	3.7	572
		57.3	57.0	275.2	272.0	10	36	82.1	85.4	57.3	56.8		
		58.9	58.4	277.0	274.0	10	46	83.9	87.4	55.7	55.4		
1168	4.5	52.9	52.8	273.4	269.6	10	39	79.8	83.2	56.1	55.4	4.2	576
		54.5	54.2	275.3	271.7	10	49	81.5	85.1	54.6	54.0		
		56.1	55.7	277.1	273.7	10	59	83.3	87.1	53.0	52.5		
254	3.2	53.7	54.2	266.9	263.3	10	54	86.2	89.5	57.2	57.0	2.3	578
		55.4	55.6	268.9	265.4	11	4	88.1	91.5	55.6	55.6		
		57.0	57.0	270.8	267.5	11	14	90.0	93.6	54.0	54.1		
254	3.2	55.5	55.7	269.1	265.6	11	5	83.9	86.9	59.0	58.6	4.2	593
		57.1	57.2	271.0	267.7	11	15	85.7	89.0	57.4	57.2		
		58.7	58.6	272.9	265.8	11	25	87.6	91.0	55.8	55.7		
1196	4.2	47.5	48.4	262.2	257.8	11	15	89.3	93.3	51.1	51.2	3.7	572
		49.1	49.8	264.3	260.1	11	25	91.2	95.5	49.5	49.8		
		50.7	51.2	266.3	262.3	11	35	93.2	97.6	47.9	48.3		
294	3.7	51.0	51.8	262.1	258.2	11	34	89.3	92.9	54.3	54.4	4.2	593
		52.6	53.2	264.2	260.4	11	44	91.2	95.0	52.7	53.0		
		54.2	54.6	266.2	262.6	11	54	93.2	97.2	51.1	51.6		
1207	5.0	49.4	50.1	264.5	260.3	11	44	91.2	95.0	52.7	53.0	4.2	553
		51.0	51.5	266.5	262.5	11	54	93.2	97.2	51.1	51.6		
		52.7	53.0	269.5	264.7	12	4	95.2	99.4	49.5	50.2		
287	2.0	52.1	51.7	276.6	272.7	12	3	77.9	80.5	55.4	54.5	5.3	1486
		53.7	53.1	278.3	274.6	12	13	78.7	82.4	53.9	53.0		
		55.3	54.5	280.1	276.6	12	23	80.4	84.3	52.3	51.6		
294	3.7	58.0	58.1	270.9	267.7	12	18	84.8	87.6	61.2	60.8	3.2	641
		59.6	59.5	272.7	269.8	12	28	86.7	89.6	59.6	59.4		
		61.2	60.9	274.6	271.8	12	38	88.5	91.7	58.0	58.0		
328	4.2	47.2	47.8	265.4	260.8	12	32	85.3	89.4	50.7	50.5	5.4	1441
		48.8	49.2	267.4	263.1	12	42	87.1	91.5	49.1	49.0		
		50.4	50.7	269.3	265.2	12	52	89.0	93.6	47.5	47.6		
1237	4.7	39.7	39.5	274.7	268.6	12	43	81.2	86.6	42.9	42.3	3.6	626
		41.3	41.0	276.4	270.7	12	53	82.8	88.6	41.3	40.9		
		42.9	42.4	278.1	272.7	13	3	84.5	90.6	39.7	39.5		
1239	5.2	51.9	53.0	259.0	255.2	12	54	91.6	95.9	55.4	55.7	3.2	641
		53.4	54.4	261.1	257.5	13	4	93.6	97.2	53.8	54.2		
		55.0	55.8	263.2	259.8	13	14	95.6	99.4	52.2	52.8		
328	4.2	53.3	53.2	272.7	269.0	13	10	82.8	86.1	56.6	56.2	3.8	674
		54.9	54.7	274.6	271.1	13	20	84.6	88.1	55.0	54.7		
		56.5	56.1	276.4	273.1	13	30	86.4	90.1	53.4	53.3		
352	3.3	46.0	45.9	274.2	269.4	13	22	77.5	81.8	49.3	48.4	4.0	672
		47.6	47.3	276.0	271.4	13	32	79.1	83.6	47.7	47.0		
		49.2	48.7	277.8	273.4	13	42	80.7	85.6	46.1	45.5		
360	4.6	44.4	44.1	276.1	271.0	13	33	79.3	83.8	47.6	46.8	4.0	672
		46.0	45.6	277.8	273.0	13	43	80.9	85.8	46.0	45.4		
		47.6	47.0	279.5	274.9	13	53	82.6	87.7	44.4	44.0		
371	4.1	49.9	50.6	263.7	259.6	13	43	87.5	91.2	53.3	53.2	3.8	681
		51.5	52.0	265.8	261.9	13	53	89.3	93.3	51.6	51.8		
		53.1	53.5	267.8	264.0	14	3	91.3	95.4	50.0	50.3		
1244	4.6	55.9	55.9	271.4	268.0	13	53	84.1	87.1	59.3	58.9	4.9	1488
		57.5	57.4	273.3	270.1	14	3	85.9	89.1	57.7	57.5		
		59.1	58.8	275.1	272.1	14	13	87.8	91.1	56.1	56.0		
412	3.9	38.5	39.2	264.9	258.8	14	7	85.0	90.6	42.2	42.0	4.0	672
		40.1	40.7	267.0	261.1	14	17	86.8	92.7	40.6	40.5		
		41.7	42.1	269.0	263.4	14	27	88.6	94.8	38.9	39.1		
390	4.4	42.7	42.5	274.8	269.3	14	17	78.1	82.9	46.1	45.3	0.1	659
		44.3	43.9	276.5	271.4	14	27	79.7	84.8	44.6	43.9		
		45.9	45.4	278.2	273.3	14	37	81.4	86.8	43.0	42.5		
425	3.7	39.2	40.0	263.5	257.5	14	32	86.7	92.1	42.7	42.6	4.3	1477
		40.8	41.4	265.6	259.9	14	42	88.5	94.3	41.0	41.2		
		42.4	42.9	267.6	262.2	14	52	90.4	96.5	39.4	39.7		
412	3.9	44.8	44.8	272.6	267.5	14	46	80.8	85.4	48.0	47.4	5.1	719
		46.4	46.2	274.4	269.6	14	56	82.5	87.3	46.4	45.9		
		48.0	47.7	276.2	271.6	15	6	84.3	89.3	44.8	44.5		
425	3.7	43.1	43.4	268.4	263.1	14	56	82.5	87.3	46.4	45.9	5.1	719
		44.7	44.9	270.4	265.3	15	6	84.3	89.3	44.8	44.5		
		46.3	46.3	272.2	267.4	15	16	86.1	91.4	43.2	43.1		

CATNC	MAG	WEST STAR		AZ		LST HRS MIN	AZ		EAST STAR		MAG	CATNC	
		Z.D.	Z.D.	LAT 50	LAT 55		LAT 50	LAT 55	LAT 50	LAT 55			LAT 50
412	3.9	49.0	48.5	277.2	272.8	15	12	78.1	81.9	52.3	51.4	4.0	1521
		50.5	49.9	278.9	274.8	15	22	79.7	83.8	50.7	50.0		
		52.1	51.4	280.6	276.7	15	32	81.4	85.8	49.1	48.5		
425	3.7	47.2	47.1	273.3	268.7	15	22	79.7	83.8	50.7	50.0	4.0	1521
		48.8	48.6	275.1	270.8	15	32	81.4	85.8	49.1	48.5		
		50.4	50.0	276.9	272.8	15	42	83.1	87.7	47.5	47.1		
1300	5.5	45.1	45.1	273.0	269.0	15	36	82.1	86.6	48.5	48.0	4.0	1521
		46.8	46.5	274.8	270.0	15	46	83.9	88.6	46.9	46.5		
		48.3	48.0	276.5	272.1	15	56	85.6	90.6	45.3	45.1		
1322	5.4	39.4	40.2	264.1	258.1	15	49	89.6	94.9	42.8	43.0	4.9	1510
		41.0	41.6	266.1	260.5	15	59	91.5	97.1	41.2	41.6		
		42.6	43.0	268.1	262.8	16	9	93.5	99.4	39.6	40.2		
1374	4.5	57.5	58.2	263.2	260.1	16	0	91.3	94.1	60.9	61.1	4.8	1539
		59.1	59.6	265.2	262.3	16	10	93.2	96.2	59.2	59.7		
		60.7	61.1	267.2	264.4	16	20	95.2	98.3	57.6	58.2		
461	5.2	40.7	40.3	276.9	271.0	16	11	77.9	83.1	43.9	43.1	2.3	765
		42.3	41.8	278.5	273.0	16	21	79.4	85.0	42.4	41.7		
		43.9	43.2	280.2	275.0	16	31	81.1	86.9	40.8	40.2		
1332	5.1	45.8	46.7	261.2	256.5	16	23	89.4	93.7	49.3	48.4	4.1	1534
		47.4	48.1	263.3	258.8	16	33	91.3	95.9	47.7	48.0		
		49.0	49.5	265.4	261.1	16	43	93.3	98.1	46.1	46.6		
1332	5.1	49.6	49.3	265.0	260.7	16	41	90.3	94.2	52.0	52.2	5.2	786
		50.2	50.7	267.0	262.9	16	51	92.2	96.3	50.4	50.8		
		51.8	52.1	269.0	265.0	17	1	94.2	98.5	48.8	49.4		
492	4.3	46.9	47.7	263.4	258.8	16	52	92.4	96.5	50.2	50.6	5.2	786
		48.5	49.1	265.5	261.1	17	2	94.4	98.7	48.6	49.2		
		50.1	50.5	267.5	263.3	17	12	96.5	101.0	47.0	47.8		
1332	5.1	52.3	52.5	269.5	265.7	17	4	82.4	85.8	55.7	55.2	5.0	1575
		53.9	54.0	271.4	267.8	17	14	84.2	87.8	54.2	53.8		
		55.5	55.4	273.3	269.9	17	24	86.0	89.9	52.6	52.4		
492	4.3	50.6	51.0	268.1	264.0	17	15	84.4	88.0	54.0	53.7	5.0	1575
		52.2	52.4	270.1	266.1	17	25	86.2	90.1	52.4	52.2		
		53.8	53.8	271.9	268.2	17	35	88.1	92.1	50.8	50.8		
1332	5.1	56.5	56.3	274.4	271.1	17	30	77.7	80.6	60.0	59.1	3.1	857
		58.1	57.7	276.2	273.1	17	40	79.4	82.5	58.4	57.6		
		59.7	59.1	278.0	275.1	17	50	81.1	84.4	56.9	56.2		
492	4.3	54.8	54.7	273.0	269.5	17	41	79.6	82.7	58.3	57.5	3.1	857
		56.4	56.1	274.8	271.5	17	51	81.3	84.6	56.7	56.1		
		58.0	57.6	276.7	273.5	18	1	83.1	86.6	55.1	54.7		
522	4.8	50.1	50.9	262.3	258.2	17	58	93.6	97.3	53.2	53.6	4.0	831
		51.7	52.3	264.4	260.5	18	8	95.7	99.6	51.6	52.2		
		53.3	53.8	266.4	262.7	18	18	97.7	101.8	50.0	50.8		
535	3.0	39.9	39.8	274.7	269.7	18	10	79.7	85.1	43.1	42.4	4.6	1583
		41.5	41.2	276.4	270.7	18	20	81.4	87.1	41.5	41.0		
		43.1	42.6	278.1	272.7	18	30	83.0	89.0	39.9	39.6		
1380	4.5	47.6	48.0	267.7	263.2	18	27	87.8	91.9	50.9	50.9	3.1	857
		49.2	49.4	269.7	265.4	18	37	89.7	94.0	49.3	49.5		
		50.8	50.9	271.6	267.5	18	47	91.6	96.1	47.7	48.1		
1383	4.9	50.3	50.9	265.3	261.2	18	39	88.2	91.8	53.8	53.8	2.6	870
		51.9	52.4	267.3	263.4	18	49	90.1	93.9	52.2	52.4		
		53.6	53.8	269.2	265.5	18	59	92.0	96.1	50.6	50.9		
557	4.7	48.6	49.3	263.8	259.5	18	51	90.4	94.4	51.9	52.1	2.6	870
		50.2	50.8	265.8	261.7	19	1	92.4	96.5	50.3	50.5		
		51.8	52.2	267.8	263.9	19	11	94.4	98.7	48.7	49.2		
1383	4.9	55.2	55.2	271.1	267.6	19	9	81.0	84.1	58.6	58.0	2.2	1
		56.8	56.6	273.0	269.7	19	19	82.8	86.0	57.0	56.6		
		58.4	58.1	274.8	271.8	19	29	84.6	88.0	55.4	55.1		
557	4.7	53.4	53.6	269.8	266.1	19	21	83.1	86.4	56.7	56.3	2.2	1
		55.0	55.0	271.7	268.2	19	31	84.9	88.4	55.1	54.8		
		56.6	56.5	273.5	270.2	19	41	86.8	90.5	53.5	53.4		
578	2.3	51.0	51.5	266.4	262.4	19	35	85.7	89.3	54.5	54.3	2.2	1
		52.6	52.9	268.3	264.5	19	45	87.5	91.3	52.9	52.9		
		54.2	54.3	270.3	266.7	19	55	89.4	93.4	51.3	51.4		
572	3.7	52.7	52.6	272.6	268.8	19	49	81.1	84.5	56.0	55.3	3.5	20
		54.3	54.1	274.4	270.8	19	59	82.8	86.4	54.4	53.9		
		55.9	55.5	276.2	272.8	20	9	84.6	88.4	52.8	52.5		
593	4.2	51.5	51.9	267.3	263.4	20	2	84.9	88.4	54.8	54.5	4.5	19
		53.1	53.4	269.3	265.5	20	12	86.7	90.5	53.2	53.1		
		54.7	54.8	271.2	267.6	20	22	88.6	92.6	51.6	51.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	LAT 50	LAT 55	LAT 50	LAT 55	HRS	MIN	LAT 50	LAT 55	Z. D.		
578	2.3	57.4	57.2	274.0	270.8	20	15	81.6	84.5	60.7	60.1	4.7	45
		59.0	58.6	275.8	272.8	20	25	83.4	86.5	59.1	56.7		
		60.6	60.1	277.6	274.8	20	35	85.3	88.5	57.5	57.2		
593	4.2	55.5	55.5	272.1	268.7	20	27	83.8	86.8	58.8	56.4	4.7	45
		57.2	56.9	274.0	270.7	20	37	85.6	88.9	57.2	56.9		
		58.8	58.4	275.8	272.8	20	47	87.5	90.9	55.6	55.5		
593	4.2	57.3	57.1	274.2	270.9	20	38	77.9	80.7	60.7	56.8	3.6	64
		58.9	58.5	276.0	273.0	20	48	79.6	82.6	59.2	56.4		
		60.5	60.0	277.8	274.9	20	58	81.4	84.6	57.6	57.0		
1440	5.2	52.0	52.7	263.9	260.0	20	49	87.8	91.3	55.2	55.2	4.7	45
		53.6	54.1	265.9	262.2	20	59	89.7	93.4	53.6	53.8		
		55.2	55.5	267.8	264.4	21	9	91.7	95.5	52.0	52.4		
641	3.2	50.0	50.9	261.6	257.6	21	1	90.1	93.8	53.3	53.5	4.7	45
		51.6	52.3	263.7	259.9	21	11	92.1	96.0	51.7	52.1		
		53.2	53.8	265.8	262.1	21	21	94.0	98.2	50.1	50.6		
1460	4.5	49.4	49.7	261.8	257.5	21	12	92.3	96.2	51.6	51.9	4.7	45
		50.0	50.7	263.9	259.8	21	22	94.2	98.4	50.6	50.5		
		51.6	52.1	265.9	262.0	21	32	96.3	100.6	48.4	49.1		
1446	5.3	49.6	49.2	276.7	272.4	21	22	77.7	81.5	52.8	51.9	3.1	75
		51.2	50.7	278.4	274.4	21	32	79.4	83.4	51.2	50.5		
		52.8	52.1	280.2	276.3	21	42	81.1	85.4	49.6	49.0		
667	3.5	49.4	49.1	264.9	260.5	21	35	88.1	92.0	51.7	51.7	3.6	64
		50.7	50.5	266.9	262.7	21	45	90.0	94.1	50.1	50.2		
		51.6	51.9	268.8	264.5	21	55	91.9	96.3	48.5	48.8		
641	3.2	57.2	57.3	270.6	267.4	21	46	81.7	84.6	60.6	60.0	3.7	100
		59.9	58.8	272.5	265.5	21	56	83.5	86.5	59.0	58.6		
		62.5	62.2	274.4	271.5	22	6	85.3	88.6	57.4	57.1		
1460	4.5	55.6	55.7	270.8	267.4	21	57	83.7	86.7	58.8	56.4	3.7	100
		57.2	57.1	272.7	269.5	22	7	85.5	88.8	57.2	57.0		
		58.3	58.5	274.5	271.5	22	17	87.4	90.8	55.6	55.5		
1469	5.5	53.6	53.9	268.3	264.7	22	9	85.9	89.2	56.9	56.7	3.7	100
		55.2	55.4	270.2	266.8	22	19	87.7	91.2	55.3	55.3		
		56.8	56.8	272.1	268.9	22	29	89.6	93.3	53.7	53.8		
1488	4.9	46.7	47.7	260.5	256.0	22	19	89.7	93.8	50.2	50.3	5.4	1068
		49.3	49.1	262.7	258.3	22	29	91.6	96.0	48.6	48.9		
		49.9	50.5	264.7	260.6	22	39	93.6	98.2	46.9	47.5		
1483	4.9	48.6	49.4	263.1	258.8	22	31	90.9	94.8	52.0	52.3	4.6	94
		50.2	50.8	265.1	261.0	22	41	92.8	96.9	50.4	50.8		
		51.8	52.2	267.1	263.2	22	51	94.8	99.1	48.8	49.4		
713	3.3	44.4	44.7	269.0	264.0	22	43	82.9	87.4	47.7	47.2	5.0	1082
		46.0	46.1	270.9	266.1	22	53	84.6	89.4	46.1	45.8		
		47.6	47.6	272.8	268.2	23	3	86.4	91.5	44.5	44.4		
724	4.5	40.3	40.2	274.6	268.7	22	56	77.0	82.2	43.6	42.7	2.8	111
		41.9	41.6	276.3	270.7	23	6	78.5	84.1	42.0	41.3		
		43.5	43.1	278.0	272.7	23	16	80.1	86.0	40.5	39.8		
705	3.3	49.4	49.1	276.0	271.7	23	8	76.4	80.2	52.8	51.8	4.1	148
		51.0	50.5	277.8	273.7	23	18	78.0	82.0	51.2	50.3		
		52.6	51.9	279.5	275.6	23	28	79.7	83.9	49.6	48.9		
1510	4.0	45.7	45.6	273.8	268.9	23	31	80.2	84.5	49.2	46.5	4.1	148
		47.3	47.0	275.6	270.9	23	41	81.9	86.5	47.6	47.1		
		49.1	48.5	277.3	272.9	23	51	83.6	88.4	46.0	45.6		
1521	4.7	43.6	43.7	272.5	267.3	23	45	82.6	87.2	46.9	46.5	4.1	148
		45.3	45.1	274.4	269.4	23	55	84.3	89.3	45.3	45.0		
		46.0	46.5	276.1	271.4	24	5	86.1	91.3	43.7	43.6		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 55	LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	LAT 60		
1521	4.0	46.5	46.6	271.4	266.7	0	5	79.7	84.0	49.7	49.0	5.1	1133
		48.0	47.9	273.4	268.9	0	15	81.6	86.1	48.3	47.7		
		49.4	49.1	275.4	271.1	0	25	83.5	88.2	46.8	46.5		
732	3.2	56.9	56.8	272.5	269.2	0	15	82.1	85.0	59.9	59.4	1.8	202
		58.3	58.1	274.5	271.4	0	25	84.0	87.1	58.5	58.1		
		59.7	59.3	276.4	273.5	0	35	86.0	89.3	57.1	56.9		
1523	4.7	58.9	55.1	269.2	265.7	0	30	85.0	88.2	57.8	57.5	1.8	202
		56.3	56.3	271.2	267.9	0	40	87.0	90.3	56.4	56.3		
		57.7	57.6	273.2	270.1	0	50	89.0	92.5	54.9	55.0		
1534	4.1	51.0	51.3	268.6	264.5	0	45	83.8	87.5	53.9	53.5	4.9	1151
		52.4	52.5	270.6	266.8	0	55	85.8	89.6	52.5	52.3		
		53.8	53.8	272.6	269.0	1	5	87.8	91.8	51.0	51.0		
1558	4.3	39.0	39.3	269.4	263.3	0	54	82.8	88.3	42.1	41.7	3.9	1137
		40.4	40.5	271.5	265.6	1	4	84.6	90.5	40.6	40.4		
		41.8	41.8	273.5	267.9	1	14	86.5	92.7	39.2	39.2		
1559	4.3	39.2	39.5	269.9	263.8	0	56	82.2	87.7	42.2	41.8	3.3	185
		40.7	40.8	271.9	266.1	1	6	84.1	89.9	40.8	40.5		
		42.1	42.0	273.8	268.3	1	16	86.0	92.1	39.4	39.3		
757	3.4	47.7	48.6	263.6	259.2	1	6	89.0	92.0	50.9	50.9	4.9	1151
		49.3	49.9	265.8	261.6	1	16	90.0	94.3	49.4	49.6		
		50.7	51.1	267.9	263.9	1	26	92.1	96.5	48.6	48.4		
786	5.2	54.7	54.3	268.5	264.9	1	19	84.3	87.6	57.1	56.8	4.5	1168
		55.4	55.5	270.5	267.1	1	29	86.3	89.7	55.7	55.5		
		56.9	56.8	272.6	269.3	1	39	88.3	91.9	54.3	54.3		
1565	4.8	56.9	57.6	264.4	261.2	1	51	88.3	91.2	60.0	59.9	3.2	254
		58.4	58.8	266.5	263.4	2	1	90.3	93.4	58.5	58.7		
		59.8	60.1	268.6	265.7	2	11	92.4	95.6	57.1	57.4		
797	3.4	56.3	56.0	275.8	272.4	2	5	77.2	80.2	59.3	58.3	4.2	286
		57.7	57.2	277.7	274.5	2	15	79.1	82.2	57.9	57.1		
		59.2	58.5	279.6	276.6	2	25	81.0	84.3	56.5	55.8		
757	3.4	56.6	56.2	276.2	272.8	2	7	76.5	79.4	59.7	58.7	2.0	287
		58.0	57.5	278.1	275.0	2	17	78.4	81.5	58.3	57.4		
		59.4	58.7	280.0	277.0	2	27	80.2	83.5	56.9	56.2		
835	4.4	47.9	48.1	269.5	265.0	2	18	84.8	88.9	50.7	50.4	3.6	261
		49.3	49.3	271.5	267.2	2	28	86.8	91.1	49.3	49.2		
		50.7	50.6	273.5	269.4	2	38	88.8	93.3	47.8	47.9		
831	4.1	55.6	56.1	265.6	262.3	2	28	85.3	88.4	58.6	58.3	3.9	282
		57.1	57.4	267.7	264.5	2	38	87.3	90.5	57.1	57.1		
		58.5	58.6	269.8	266.7	2	48	89.3	92.7	55.7	55.8		
831	4.1	57.9	58.1	269.0	265.9	2	44	83.8	86.5	61.0	60.6	5.0	1207
		59.3	59.4	271.0	268.1	2	54	85.7	88.7	59.6	59.4		
		60.8	60.6	273.0	270.2	3	4	87.7	90.8	58.2	58.1		
859	4.1	56.1	56.8	262.0	259.6	3	1	90.7	93.7	59.2	59.3	3.7	294
		57.5	58.1	265.0	261.9	3	11	92.8	95.9	57.7	58.1		
		58.9	59.3	267.1	264.2	3	21	94.9	98.2	56.3	56.9		
871	2.6	51.3	52.4	265.3	261.4	3	13	90.2	93.8	54.8	54.9	1.2	255
		53.3	53.7	267.4	263.7	3	23	92.3	96.0	53.3	53.7		
		54.7	54.9	269.5	266.0	3	33	94.4	98.3	51.9	52.5		
879	2.6	56.7	56.0	271.3	268.0	3	42	83.2	86.2	58.8	58.4	4.2	328
		57.4	57.3	273.3	270.1	3	52	85.1	88.4	57.4	57.1		
		58.9	58.5	275.3	272.3	4	2	87.1	90.5	56.0	55.9		
1613	5.5	53.1	52.8	275.2	271.4	4	5	76.6	79.9	56.2	55.2	3.3	352
		54.5	54.7	277.1	273.6	4	15	78.4	82.0	54.8	53.9		
		55.9	55.3	279.1	275.7	4	25	80.3	84.0	53.4	52.7		
1655	4.5	45.3	45.2	272.9	267.9	4	26	79.5	84.0	48.3	47.6	4.7	1237
		46.7	46.5	274.9	270.1	4	36	81.3	86.0	46.9	46.3		
		48.1	47.7	276.8	272.3	4	46	83.2	88.1	45.5	45.1		
1821	4.4	40.1	40.0	274.6	268.6	4	42	89.0	85.4	43.0	42.3	4.1	339
		41.6	41.2	276.5	270.8	4	52	91.8	87.8	41.6	41.1		
		43.0	42.5	278.3	272.9	5	2	93.6	89.6	40.1	39.8		
27	4.3	55.7	56.4	263.7	260.4	5	3	88.2	91.2	58.8	58.8	4.1	371
		57.2	57.7	265.8	262.6	5	13	90.2	93.4	57.4	57.5		
		58.6	58.9	267.9	264.9	5	23	92.3	95.7	55.9	56.3		
19	4.5	55.4	55.3	272.8	269.3	5	19	77.8	80.9	58.5	57.6	4.8	1275
		56.8	56.6	274.8	271.5	5	29	79.7	82.9	57.1	56.3		
		58.3	57.8	276.7	273.6	5	39	81.6	85.0	55.7	55.1		
42	2.4	48.5	48.2	275.0	270.6	5	34	78.6	82.6	51.4	50.6	4.4	390
		49.9	49.5	277.0	272.7	5	44	80.5	84.7	50.0	49.4		
		51.3	50.7	278.8	274.8	5	54	82.3	86.8	48.6	48.1		

CATNO	MAG	WEST STAR Z.D.		AZ		LST		AZ		EAST STAR Z.D.		MAG	CATNO
		LAT 55	LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	LAT 60		
43	4.7	53.8	53.8	272.0	268.3	5	45	82.4	85.7	56.8	56.3	5.4	407
		55.2	55.3	274.0	270.5	5	55	84.3	87.8	55.4	55.0		
		56.7	56.3	275.9	272.6	6	5	86.3	89.9	54.0	53.8		
73	2.3	39.5	39.2	276.3	271.2	5	57	78.4	83.9	42.4	41.7	3.5	383
		40.9	40.4	278.1	272.3	6	7	80.2	85.9	41.0	40.4		
		42.3	41.7	279.9	274.4	6	17	81.9	89.0	39.6	39.2		
1170	5.4	42.4	42.9	267.7	262.2	6	17	86.8	91.7	45.3	45.2	4.4	390
		43.9	44.1	269.7	264.6	6	27	88.8	93.9	43.9	44.0		
		45.3	45.4	271.8	266.8	6	37	90.8	96.2	42.4	42.7		
1392	5.7	40.7	41.6	263.0	257.3	6	27	88.8	93.9	43.9	44.0	4.4	390
		42.1	42.8	265.2	259.7	6	37	90.8	96.2	42.4	42.7		
		43.6	44.0	267.3	262.1	6	47	92.9	98.6	41.0	41.5		
179	3.7	40.7	41.3	269.8	263.9	6	46	82.4	87.7	43.1	42.7	5.1	1262
		41.4	41.5	271.8	266.2	6	56	84.2	89.8	41.7	41.5		
		42.9	42.8	273.8	269.4	7	6	86.1	92.0	40.3	40.2		
148	4.1	39.4	41.3	262.3	256.4	7	21	87.7	93.2	42.5	42.5	4.8	1293
		40.9	41.6	264.6	259.9	7	31	89.7	95.5	41.0	41.3		
		42.3	42.8	266.7	261.3	7	41	91.8	97.8	39.6	40.0		
94	4.6	58.4	58.1	274.0	271.9	7	36	81.9	84.6	61.3	61.7	5.1	1332
		59.8	59.4	275.9	273.9	7	46	83.8	86.8	59.9	59.5		
		61.2	60.6	277.9	275.1	7	56	85.8	89.9	58.5	58.2		
136	3.9	53.9	54.9	267.7	257.2	7	47	91.2	94.4	56.9	57.1	4.8	1318
		55.3	56.1	262.9	259.5	7	57	93.3	96.7	55.4	55.9		
		56.7	57.3	265.0	261.8	8	7	95.4	99.0	54.0	54.6		
137	3.3	53.7	54.7	260.3	256.8	7	48	91.4	94.7	56.7	57.0	4.8	1318
		55.1	55.9	262.5	259.1	7	58	93.5	96.9	55.3	55.8		
		56.5	57.1	264.7	261.4	8	8	95.6	99.2	53.9	54.5		
102	3.3	53.6	54.6	260.1	256.6	7	49	91.6	94.9	56.6	56.9	4.8	1318
		55.0	55.9	262.3	259.9	7	59	93.7	97.1	55.2	55.6		
		56.5	57.1	264.5	261.2	8	9	95.8	99.4	53.7	54.4		
104	2.9	48.2	48.6	267.5	263.1	7	58	85.1	89.1	51.3	51.1	5.4	1322
		49.7	49.9	269.6	265.4	8	8	87.1	91.3	49.9	49.8		
		51.1	51.1	271.7	267.6	8	18	89.1	93.5	48.5	48.6		
148	4.1	46.3	46.3	272.5	267.7	8	9	78.4	82.7	49.3	48.5	2.9	485
		47.7	47.5	274.5	269.9	8	19	80.2	84.7	47.9	47.3		
		49.2	49.3	276.4	272.7	8	29	82.1	86.8	46.5	46.0		
149	4.1	49.1	47.8	274.8	271.3	8	21	81.1	85.2	50.8	50.2	5.1	1337
		49.4	49.0	276.8	272.5	8	31	83.2	87.3	49.4	49.0		
		51.9	50.3	278.7	274.6	8	41	84.9	89.4	48.0	47.7		
1133	5.1	42.1	42.3	275.0	264.5	8	39	83.9	88.9	45.1	44.8	2.9	485
		43.5	43.6	272.1	266.8	8	49	85.8	91.1	43.7	43.5		
		45.0	44.8	274.0	269.0	8	59	87.8	93.3	42.2	42.3		
192	4.8	47.3	41.9	270.2	264.5	8	58	81.1	86.3	43.9	43.4	4.7	484
		42.2	42.2	272.2	266.7	9	8	82.9	88.4	42.5	42.1		
		43.6	43.5	274.2	268.9	9	18	84.8	90.5	41.1	40.9		
174	4.3	58.2	58.7	265.0	261.9	9	8	86.3	89.0	61.3	61.1	4.8	522
		59.6	60.0	267.1	264.2	9	18	88.3	91.2	59.9	59.9		
		61.0	61.2	269.1	266.4	9	28	90.3	93.4	58.5	58.6		
181	2.9	47.9	49.8	272.4	268.2	9	19	78.7	82.5	53.0	52.2	4.8	1370
		51.3	51.1	274.4	270.4	9	29	80.6	84.5	51.6	51.0		
		52.7	52.3	276.4	272.5	9	39	82.4	86.6	50.2	49.7		
222	1.8	52.5	52.9	267.5	263.7	9	43	84.9	89.4	55.4	55.1	3.8	534
		53.9	54.1	269.5	265.9	9	53	86.9	90.6	54.0	53.8		
		55.4	55.4	271.6	268.1	10	3	88.9	92.8	52.5	52.6		
1153	4.0	52.8	51.6	263.0	259.0	9	53	86.9	90.6	54.0	53.8	3.8	534
		52.2	52.8	265.2	261.3	10	3	88.9	92.8	52.5	52.6		
		53.7	54.1	267.3	263.6	10	13	91.0	95.0	51.1	51.3		
272	1.9	56.4	56.2	273.0	269.6	10	10	77.7	80.6	59.5	58.6	4.2	576
		57.8	57.5	275.0	271.9	10	20	79.5	82.7	58.1	57.3		
		59.3	58.7	276.9	273.9	10	30	81.4	84.7	56.7	56.1		
1153	4.5	55.4	55.6	269.8	266.3	10	25	83.2	86.3	58.4	57.9	3.7	572
		56.8	56.8	271.8	268.5	10	35	85.2	88.4	56.9	56.6		
		58.2	58.1	273.8	270.7	10	45	87.2	90.6	55.5	55.4		
1168	4.5	52.6	52.9	269.4	265.6	10	38	83.0	86.4	55.5	55.1	4.2	576
		54.1	54.1	271.5	267.9	10	48	84.9	88.5	54.1	53.9		
		55.5	55.4	273.5	270.0	10	58	86.9	90.7	52.7	52.6		
254	3.2	54.0	54.8	263.1	259.5	10	53	89.3	92.5	57.1	57.2	2.3	578
		55.5	56.0	265.2	261.8	11	3	91.3	94.7	55.7	56.0		
		56.9	57.3	267.3	264.1	11	13	93.4	97.0	54.3	54.7		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 55	LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60		
254	3.2	55.6	56.1	265.4	262.1	11	4	86.7	89.8	58.7	56.6	4.2	593
		57.0	57.4	267.5	264.3	11	14	88.8	92.0	57.3	57.3		
		58.5	58.6	269.6	266.5	11	24	90.8	94.2	55.9	56.1		
1191	5.3	40.3	40.2	274.3	268.3	11	16	81.6	87.0	43.2	42.7	5.2	573
		41.7	41.4	276.1	270.5	11	26	83.5	89.1	41.7	41.4		
		43.1	42.7	278.0	272.6	11	36	85.3	91.3	40.3	40.2		
296	5.3	44.3	44.9	265.0	259.9	11	32	86.1	90.7	47.3	47.2	4.8	1414
		45.7	46.2	267.1	262.3	11	42	88.1	92.9	45.9	45.9		
		47.1	47.4	269.2	264.6	11	52	90.1	95.2	44.5	44.7		
287	2.0	51.5	51.5	272.5	269.5	12	2	80.3	83.9	54.6	53.9	5.3	1446
		53.0	52.7	274.4	270.7	12	12	82.2	85.9	53.2	52.7		
		54.4	54.0	276.4	272.8	12	22	84.1	88.1	51.8	51.4		
294	3.7	57.9	58.3	267.5	264.4	12	17	87.4	90.2	61.0	60.9	3.2	641
		59.4	59.5	269.6	266.6	12	27	89.4	92.3	59.5	59.6		
		60.8	60.9	271.6	268.9	12	37	91.5	94.5	58.1	58.4		
328	4.2	47.5	48.6	260.4	256.0	12	30	89.0	93.1	50.7	50.8	5.4	1441
		49.0	49.8	262.6	258.4	12	40	91.1	95.3	49.3	49.6		
		50.4	51.0	264.8	260.7	12	50	93.2	97.6	47.9	48.4		
1237	4.7	39.5	39.9	268.6	262.6	12	43	86.6	92.1	42.3	42.3	3.6	626
		41.0	41.2	270.7	264.9	12	53	88.6	94.3	40.9	41.0		
		42.4	42.4	272.7	267.2	13	3	90.6	96.6	39.5	39.9		
1217	5.2	56.5	56.6	270.0	267.5	12	58	82.2	85.2	59.6	59.1	3.8	681
		58.0	57.9	272.8	269.7	13	8	84.2	87.3	58.2	57.8		
		59.4	59.1	274.8	271.8	13	18	86.1	89.4	56.8	56.6		
323	4.2	53.2	53.5	269.0	265.3	13	10	86.1	89.5	56.2	56.0	3.8	674
		54.7	54.7	271.1	267.5	13	20	88.1	91.6	54.7	54.7		
		56.1	56.0	273.1	269.7	13	30	90.1	93.9	53.3	53.5		
350	3.3	45.6	45.9	269.0	264.1	13	20	81.4	85.8	48.7	48.1	4.0	672
		47.0	47.1	271.0	266.4	13	30	83.3	87.9	47.3	46.9		
		48.5	48.4	273.0	268.6	13	40	85.2	90.1	45.8	45.6		
362	3.3	47.7	47.9	272.0	267.5	13	35	80.9	85.0	50.7	50.1	4.3	1477
		49.2	49.0	274.0	269.7	13	45	82.8	87.1	49.3	48.9		
		50.6	50.3	276.0	271.9	13	55	84.7	89.2	47.9	47.6		
360	4.6	46.3	46.1	273.9	269.2	13	48	77.6	81.9	49.4	48.5	0.1	659
		47.7	47.4	275.9	271.3	13	58	79.4	84.0	48.0	47.3		
		49.1	48.5	277.8	273.4	14	8	81.3	86.0	46.6	46.0		
383	4.4	43.1	43.7	265.7	259.9	14	0	80.1	84.5	43.0	43.1	4.0	672
		44.5	44.9	267.9	262.3	14	10	81.2	86.8	41.5	41.9		
		45.9	46.2	269.9	264.6	14	20	83.3	89.1	40.1	40.6		
371	4.1	54.6	55.1	265.8	262.3	14	11	85.1	88.2	57.8	57.5	5.5	1458
		56.0	56.4	267.9	264.5	14	21	87.0	90.4	56.3	56.2		
		57.5	57.6	269.9	266.7	14	31	89.1	92.6	54.9	55.0		
371	4.1	56.6	56.9	268.7	265.4	14	25	83.6	86.5	59.7	59.3	3.2	732
		58.1	58.1	270.7	267.6	14	35	85.6	88.7	58.3	58.0		
		59.5	59.4	272.8	269.8	14	45	87.6	90.8	56.9	56.8		
380	4.4	45.5	45.4	273.5	269.6	14	38	80.2	84.7	48.4	47.7	4.5	724
		47.0	46.7	275.5	270.8	14	48	82.0	86.7	47.0	46.5		
		48.4	47.9	277.4	272.9	14	58	83.9	88.9	45.5	45.2		
1275	4.9	48.8	49.1	268.9	264.5	14	48	82.6	86.5	51.8	51.3	4.9	1510
		50.2	50.3	270.9	266.8	14	58	84.5	88.7	50.3	50.0		
		51.7	51.6	272.9	269.0	15	8	86.5	90.8	48.9	48.8		
1275	4.3	50.2	50.3	270.9	266.8	14	58	79.3	83.0	53.4	52.6	4.0	1521
		51.7	51.6	272.9	269.0	15	8	81.2	85.1	52.0	51.4		
		53.1	52.8	274.9	271.1	15	18	83.1	87.2	50.5	50.1		
425	3.7	45.6	46.1	266.4	261.5	15	11	87.0	91.5	48.5	48.4	4.9	1510
		47.0	47.3	268.5	263.9	15	21	89.0	93.7	47.0	47.2		
		48.4	48.6	270.6	266.1	15	31	91.1	96.0	45.6	45.9		
425	3.7	47.0	47.3	268.5	263.9	15	21	83.6	87.8	50.1	49.7	4.0	1521
		48.4	48.6	270.6	266.1	15	31	85.6	90.0	48.7	48.5		
		49.8	49.8	272.6	268.3	15	41	87.6	92.2	47.3	47.2		
1293	4.8	45.3	45.0	276.1	271.2	15	35	76.6	81.1	48.2	47.2	2.3	765
		46.7	46.2	278.0	273.3	15	45	78.3	83.1	46.8	46.0		
		48.1	47.5	279.9	275.4	15	55	80.1	85.1	45.4	44.7		
425	3.7	51.0	51.8	274.1	270.1	15	49	80.5	84.1	54.0	53.4	2.6	780
		52.4	52.1	276.1	272.2	15	59	82.4	86.2	52.6	52.1		
		53.9	53.3	278.0	274.3	16	9	84.3	88.3	51.2	50.9		
461	5.2	40.2	40.4	270.8	264.9	16	10	82.9	88.2	43.2	42.9	2.3	765
		41.6	41.6	272.8	267.2	16	20	84.8	90.4	41.8	41.6		
		43.1	42.9	274.8	269.4	16	30	86.7	92.6	40.4	40.4		

CATNO	MAG	WEST STAR		AZ		LST		AZ		EAST STAR		MAG	CATNO
		Z. D.	Z. D.	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	LAT 60		
461	5.2	42.3	42.2	273.8	268.3	16	25	78.3	83.3	45.5	44.7	4.0	788
		43.8	43.5	275.7	270.5	16	35	80.1	85.3	44.1	43.4		
		45.2	44.7	277.6	272.6	16	45	81.9	87.4	42.6	42.2		
485	2.9	47.5	40.8	269.8	263.9	16	39	80.8	86.1	43.5	42.9	4.0	788
		41.9	42.0	271.8	266.2	16	49	82.6	88.2	42.1	41.7		
		43.4	43.3	273.8	268.5	16	59	84.5	90.4	40.6	40.4		
1322	4.8	56.6	57.4	262.3	259.1	16	49	91.8	94.8	59.5	59.8	4.8	1565
		59.0	58.7	264.4	261.4	16	59	93.9	97.0	58.1	58.6		
		59.5	59.9	266.6	263.6	17	9	96.0	99.3	56.7	57.3		
465	2.9	47.5	47.4	274.0	268.7	17	0	79.3	83.0	46.6	45.8	5.1	811
		44.9	44.6	275.9	270.9	17	10	80.1	85.0	45.2	44.6		
		46.4	45.9	277.8	273.0	17	20	81.9	87.1	43.8	43.3		
502	5.1	47.2	47.7	266.9	261.0	17	10	84.8	90.1	43.1	42.9	4.3	1556
		47.6	47.9	269.0	263.4	17	20	86.7	92.3	41.7	41.7		
		47.0	43.2	271.0	265.7	17	30	88.7	94.6	40.3	40.4		
1332	5.1	56.1	56.2	270.9	267.5	17	29	80.4	83.4	59.2	58.5	3.1	857
		57.6	57.4	272.9	269.7	17	39	82.3	85.5	57.8	57.3		
		59.7	58.7	274.9	271.9	17	49	84.2	87.6	56.4	56.0		
492	4.3	54.5	54.8	269.3	265.7	17	40	82.5	85.7	57.6	57.1	3.1	857
		56.9	56.0	271.3	267.9	17	50	84.4	87.8	56.2	55.9		
		57.4	57.3	273.3	270.1	18	0	86.4	89.9	54.8	54.6		
502	5.1	46.2	45.9	275.3	270.5	17	52	77.8	82.2	49.0	48.2	4.9	852
		47.6	47.2	277.2	272.7	18	2	79.6	84.2	47.6	46.9		
		47.7	48.4	279.1	274.7	18	12	81.4	86.3	46.2	45.7		
535	3.7	47.6	47.0	269.5	262.5	18	9	84.9	90.4	42.6	42.4	4.6	1563
		41.1	41.3	270.5	264.8	18	19	86.9	92.6	41.1	41.1		
		42.5	42.5	272.5	267.1	18	29	88.8	94.9	39.7	39.9		
1380	4.5	48.0	48.8	263.2	258.8	18	27	91.9	95.9	50.9	51.3	3.1	857
		49.4	51.0	265.4	261.2	18	37	94.0	98.2	49.5	50.0		
		50.9	51.3	267.5	263.5	18	47	96.1	100.5	48.1	48.8		
555	3.6	49.4	39.4	272.5	266.4	18	47	80.2	85.7	42.3	41.7	3.6	869
		47.9	47.7	274.5	268.7	18	57	82.0	87.8	40.9	40.4		
		42.3	41.9	276.4	270.8	19	7	83.8	89.9	39.4	39.2		
1383	4.7	56.1	55.4	267.4	264.0	19	8	87.9	87.0	58.1	57.7	2.2	1
		56.5	56.7	269.5	266.2	19	18	89.8	89.1	56.7	56.5		
		57.9	57.9	271.5	268.4	19	28	91.9	91.3	55.3	55.2		
557	4.7	53.5	54.0	265.9	262.2	19	20	86.2	89.6	56.4	56.2	2.2	1
		54.0	55.2	268.0	264.5	19	30	88.2	91.8	55.0	55.0		
		56.3	56.5	270.0	266.7	19	40	90.3	94.0	53.5	53.7		
579	2.3	51.3	52.2	262.1	258.3	19	34	89.1	92.6	54.4	54.5	2.2	1
		52.8	53.4	264.3	260.6	19	44	91.1	94.9	53.0	53.2		
		54.2	54.6	266.5	262.9	19	54	93.2	97.1	51.5	52.0		
572	3.7	52.5	52.8	268.6	264.8	19	48	84.3	87.7	55.5	55.1	3.5	20
		53.0	54.0	270.6	267.1	19	58	86.2	89.9	54.1	53.9		
		55.4	55.3	272.6	269.2	20	8	88.2	92.0	52.6	52.6		
593	4.7	51.7	52.4	262.9	259.1	20	0	88.0	91.6	54.8	54.8	4.5	19
		53.1	53.7	265.1	261.4	20	10	90.1	93.8	53.4	53.6		
		54.5	54.0	267.2	263.7	20	20	92.1	96.0	52.0	52.3		
578	3.3	57.2	57.3	277.8	267.6	20	15	84.5	87.4	60.1	59.7	4.7	45
		58.6	58.5	272.8	269.8	20	25	86.5	89.5	58.7	58.5		
		60.1	59.8	274.8	271.9	20	35	88.5	91.7	57.2	57.2		
592	4.2	55.5	55.8	268.7	265.3	20	27	86.8	89.9	58.4	58.2	4.7	45
		56.9	57.0	270.7	267.5	20	37	88.9	92.1	56.9	57.0		
		58.4	58.3	272.8	269.7	20	47	90.9	94.3	55.5	55.7		
572	4.7	56.9	57.0	270.7	267.5	20	37	80.5	83.4	60.0	59.3	3.6	64
		58.4	58.3	272.8	269.7	20	47	82.4	85.5	58.5	58.0		
		59.8	59.5	274.7	271.8	20	57	84.4	87.6	57.1	56.8		
643	3.4	47.6	47.1	266.5	260.7	20	51	86.1	91.4	43.5	43.4	3.9	33
		42.0	42.3	268.6	263.1	21	1	88.1	93.6	42.1	42.1		
		43.4	43.6	270.6	265.4	21	11	90.1	95.9	40.6	40.9		
1446	5.3	47.1	47.3	269.4	264.8	21	7	83.7	87.9	49.9	49.6	5.5	1047
		48.5	48.6	271.4	267.0	21	17	85.6	90.0	48.5	48.3		
		49.9	49.8	273.4	269.2	21	27	87.6	92.2	47.1	47.1		
1441	5.4	51.3	51.3	271.7	267.7	21	18	80.3	83.9	54.4	53.7	4.1	79
		52.7	52.5	273.7	269.9	21	28	82.2	86.0	53.0	52.4		
		54.1	53.8	275.7	272.0	21	38	84.1	88.1	51.5	51.2		
1447	5.2	58.2	58.5	268.4	265.3	21	28	82.0	84.8	61.3	60.7	4.6	54
		59.7	59.7	270.4	267.5	21	38	83.9	86.9	59.9	59.5		
		61.1	61.0	272.5	269.7	21	48	85.9	89.0	58.4	58.2		

CATNO	MAG	WEST STAR Z. C.		AZ		LST		AZ		EAST STAR Z. C.		MAG	CATNO
		LAT 55	LAT 60	LAT 55	LAT 60	HRS	MIN	LAT 55	LAT 60	LAT 55	LAT 60		
641	3.2	56.5	56.2	266.2	262.9	21	40	84.3	87.3	59.6	59.2	4.6	94
		57.2	56.2	263.2	265.1	21	50	86.3	89.4	58.1	58.0		
		58.3	56.4	270.3	267.4	22	0	88.3	91.6	56.7	58.7		
667	3.5	51.3	52.0	264.1	260.1	21	51	88.0	91.6	54.3	54.3	5.4	1068
		52.9	53.3	266.2	262.4	22	1	90.1	93.8	52.9	53.1		
		54.2	54.5	268.3	264.7	22	11	92.1	96.1	51.5	51.8		
681	3.9	49.4	50.2	263.2	259.3	22	4	90.7	94.5	52.5	52.7	5.4	1068
		51.9	51.4	265.3	261.3	22	14	92.8	96.8	51.0	51.4		
		53.3	52.7	267.4	263.6	22	24	94.9	99.1	49.6	50.2		
672	4.0	46.5	46.2	275.8	271.0	22	16	77.7	82.0	49.4	48.5	3.7	109
		48.2	47.5	277.6	273.1	22	26	79.5	84.0	48.0	47.2		
		49.4	49.7	279.5	275.2	22	36	81.3	86.1	46.5	46.0		
674	3.3	55.2	55.1	272.5	269.3	22	37	78.5	81.6	58.3	57.5	2.9	144
		56.6	56.3	274.5	271.2	22	47	80.4	83.7	56.9	56.2		
		58.0	57.6	276.5	273.3	22	57	82.3	85.8	55.5	55.0		
712	5.1	41.8	42.3	266.7	261.1	22	48	83.6	86.6	44.8	44.5	3.7	109
		43.2	43.5	268.8	263.5	22	58	85.5	90.8	43.4	43.2		
		44.6	44.9	270.8	265.8	23	8	87.4	93.0	42.0	42.0		
724	4.5	49.5	49.9	269.1	263.3	22	58	85.5	90.8	43.4	43.2	3.7	109
		41.0	42.1	271.1	265.6	23	8	87.4	93.0	42.0	42.0		
		43.4	43.3	273.1	267.8	23	18	89.4	95.3	40.5	40.7		
740	5.	39.8	39.5	264.8	258.7	23	10	87.8	93.4	41.7	41.7	3.7	109
		40.2	41.7	267.4	261.1	23	20	89.8	95.7	40.3	40.5		
		41.6	42.0	269.1	263.5	23	30	91.9	98.1	38.8	39.3		
724	4.5	43.8	43.7	273.7	268.5	23	21	78.8	83.5	46.8	46.0	3.0	147
		45.2	44.9	275.6	270.6	23	31	80.6	85.5	45.4	44.8		
		46.6	46.2	277.5	272.8	23	41	82.4	87.6	44.0	43.5		
1517	3.3	45.6	45.9	269.0	264.0	23	31	84.5	89.0	48.5	48.2	4.1	146
		47.0	47.2	270.9	266.3	23	41	86.5	91.1	47.1	46.9		
		48.5	48.4	272.0	268.5	23	51	88.4	93.3	45.6	45.7		
713	3.3	53.7	53.3	276.8	273.1	23	46	78.6	82.0	56.5	55.6	2.9	181
		55.1	54.5	278.7	275.2	23	56	80.5	84.0	55.1	54.4		
		56.6	55.3	280.6	277.3	24	6	82.4	86.1	53.6	53.1		

POSITION LINE OBSERVATION PREDICTION

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T		
		LAT-60	A	LAT-58	LAT-60	B	LAT-58	HRS	MIN
1584	5.4	311.2	3.0	309.7	45.7	-1.0	44.4	0	42
849	5.3	314.1	3.0	312.7	45.7	-0.9	44.4	0	47
1597	5.4	318.3	3.1	317.0	45.7	-0.9	44.2	0	48
873	3.8	312.6	3.0	311.1	45.7	-1.0	44.3	1	26
1612	4.2	316.4	3.1	315.0	45.7	-0.9	44.3	1	29
1043	5.1	311.2	3.0	309.7	45.6	-1.0	44.3	3	50
71	4.2	312.9	3.0	311.4	45.7	-1.0	44.4	4	16
102	4.8	313.2	3.0	311.8	45.7	-0.9	44.3	5	6
1099	4.3	311.3	3.0	309.8	45.6	-1.0	44.3	5	58
161	5.3	314.6	3.0	313.1	45.7	-0.9	44.3	6	32
204	3.0	314.4	3.0	312.9	45.7	-0.9	44.3	7	40
222	3.9	314.1	3.0	312.6	45.7	-0.9	44.3	8	4
1247	5.2	313.6	3.0	312.2	45.6	-0.9	44.3	11	47
559	4.7	318.2	3.1	316.8	45.7	-0.9	44.3	17	13
1413	5.0	318.5	3.1	317.1	45.8	-0.9	44.3	17	42
1415	5.1	316.8	3.1	315.4	45.7	-0.9	44.3	17	58
597	2.9	318.2	3.1	316.9	45.7	-0.9	44.2	18	6
1463	4.9	311.2	3.0	309.6	45.7	-1.0	44.4	20	4
682	4.7	313.4	3.0	311.9	45.7	-1.0	44.3	20	28
710	3.6	313.0	3.0	311.6	45.7	-1.0	44.4	21	13
720	3.0	313.4	3.0	311.9	45.7	-0.9	44.3	21	24
1517	5.1	317.9	3.1	316.5	45.7	-0.9	44.3	21	48

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T		
		LAT-60	A	LAT-58	LAT-60	B	LAT-58	HRS	MIN
102	4.8	46.8	3.0	48.3	45.7	1.0	44.4	0	34
1099	4.3	48.9	3.0	50.4	45.7	1.0	44.4	1	11
161	5.3	45.3	3.0	46.7	45.7	0.9	44.3	2	8
204	3.0	45.5	3.0	47.0	45.7	0.9	44.3	3	15
222	3.9	45.9	3.0	47.4	45.7	0.9	44.3	3	37
1247	5.2	46.5	3.0	48.0	45.7	0.9	44.3	7	17
559	4.7	41.9	3.1	43.2	45.8	0.9	44.3	13	9
1413	5.0	41.4	3.1	42.8	45.7	0.9	44.3	13	40
1415	5.1	43.3	3.1	44.7	45.7	0.9	44.3	13	46
597	2.9	41.9	3.1	43.3	45.7	0.9	44.3	14	2
1463	4.9	48.7	3.0	50.2	45.7	1.0	44.3	15	21
682	4.0	46.7	3.0	48.1	45.7	0.9	44.3	15	57
710	3.6	47.0	3.0	48.5	45.7	1.0	44.4	16	40
720	3.0	46.7	3.0	48.1	45.7	0.9	44.3	16	53
1517	5.1	42.2	3.1	43.6	45.8	0.9	44.3	17	42
1584	5.4	48.8	3.0	50.3	45.7	1.0	44.4	19	59
849	5.3	45.6	3.0	47.1	45.7	0.9	44.3	20	21
1597	5.4	41.7	3.1	43.0	45.7	0.9	44.2	20	45
873	3.8	47.3	3.0	48.8	45.7	1.0	44.3	20	51
1612	4.2	43.6	3.1	45.0	45.7	0.9	44.3	21	15
1043	5.1	48.8	3.0	50.4	45.6	1.0	44.3	23	7
71	4.2	47.2	3.0	48.6	45.7	1.0	44.4	23	42

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T		
		LAT-60	A	LAT-58	LAT-60	B	LAT-58	HRS	MIN
648	3.8	223.8	1.2	222.5	44.3	-0.9	45.7	0	6
686	4.3	222.1	1.2	220.9	44.3	-0.9	45.8	1	5
785	3.7	228.0	1.3	226.6	44.4	-0.9	45.7	3	14
841	2.9	224.5	1.2	223.1	44.2	-0.9	45.7	4	51
877	4.1	228.5	1.3	227.0	44.3	-1.0	45.6	5	35
23	4.5	230.0	1.3	228.5	44.3	-1.0	45.7	6	56
54	0.6	230.4	1.3	228.9	44.4	-1.0	45.7	7	49
39	5.3	221.4	1.2	220.1	44.2	-0.8	45.8	7	53
72	3.0	221.0	1.2	220.5	44.3	-0.8	45.8	8	43
84	5.5	224.4	1.2	223.0	44.3	-0.9	45.7	8	59
110	5.2	225.6	1.2	224.2	44.3	-0.9	45.7	9	33
1110	4.4	222.3	1.2	221.0	44.2	-0.9	45.7	10	41
189	4.9	230.2	1.3	228.6	44.3	-1.0	45.6	11	18
262	3.3	221.3	1.2	220.0	44.3	-0.8	45.8	13	35
315	1.7	226.3	1.2	224.9	44.3	-0.9	45.7	14	49
1233	5.3	226.8	1.3	225.4	44.4	-0.9	45.7	15	22
336	4.0	224.1	1.2	222.7	44.2	-0.9	45.7	15	30
351	2.3	226.8	1.2	225.3	44.3	-0.9	45.7	15	42
393	4.1	227.0	1.3	226.5	44.3	-0.9	45.6	16	48
1264	3.4	222.7	1.2	221.3	44.3	-0.9	45.8	16	58
397	3.6	222.1	1.2	220.7	44.2	-0.9	45.7	17	15
1289	4.0	227.4	1.3	225.9	44.3	-0.9	45.7	17	31
443	4.2	223.1	1.2	221.7	44.2	-0.9	45.7	18	25
455	3.1	227.9	1.3	226.4	44.3	-0.9	45.7	18	35
481	1.5	226.0	1.2	224.6	44.3	-0.9	45.7	19	15
1347	4.6	223.4	1.2	222.0	44.3	-0.9	45.8	20	0
518	0.9	224.6	1.2	223.2	44.3	-0.9	45.7	20	36
538	0.3	223.6	1.2	222.3	44.3	-0.9	45.9	21	16
561	4.2	227.7	1.3	226.2	44.3	-0.9	45.7	21	38
1435	3.7	227.1	1.3	225.7	44.3	-0.9	45.7	23	12

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T		
		LAT-60	A	LAT-58	LAT-60	B	LAT-58	HRS	MIN
262	3.3	138.7	1.2	140.0	44.3	0.8	45.8	0	1
315	1.7	133.7	1.2	135.1	44.3	0.9	45.7	1	55
336	4.0	135.9	1.2	137.3	44.3	0.9	45.7	2	19
1233	5.3	133.2	1.3	134.6	44.4	0.9	45.7	2	31
351	2.3	133.2	1.2	134.7	44.3	0.9	45.7	2	51
1264	3.4	137.3	1.2	138.6	44.3	0.9	45.8	3	35
397	3.6	138.0	1.2	139.3	44.3	0.8	45.8	3	47
393	4.1	132.1	1.3	133.6	44.3	0.9	45.7	4	6
1289	4.0	132.6	1.3	134.0	44.3	0.9	45.7	4	45
443	4.2	136.9	1.2	138.3	44.2	0.9	45.7	5	6
455	3.1	132.1	1.3	133.6	44.3	0.9	45.7	5	53
481	1.5	134.0	1.2	135.4	44.3	0.9	45.7	6	18
1347	4.6	136.6	1.2	137.9	44.3	0.9	45.7	6	43
518	0.9	135.3	1.2	136.7	44.3	0.9	45.7	7	29
538	0.3	136.3	1.2	137.7	44.3	0.9	45.7	8	1
561	4.2	132.3	1.3	133.8	44.3	0.9	45.7	8	54
1435	3.7	132.9	1.3	134.3	44.3	0.9	45.7	10	24
648	3.8	136.1	1.2	137.5	44.2	0.9	45.7	10	53
686	4.3	137.8	1.2	139.1	44.3	0.9	45.8	11	38
785	3.7	131.9	1.3	133.4	44.3	0.9	45.7	14	33
841	2.9	135.5	1.2	136.9	44.3	0.9	45.7	15	43
877	4.1	131.6	1.3	133.0	44.3	1.0	45.7	16	57
39	5.3	138.6	1.2	139.9	44.2	0.8	45.8	18	20
23	4.5	139.0	1.3	131.5	44.3	1.0	45.6	18	29
72	3.0	138.2	1.2	139.5	44.3	0.8	45.8	19	13
54	0.6	129.6	1.3	131.1	44.4	1.0	45.7	19	25
84	5.5	135.6	1.2	137.0	44.3	0.9	45.7	19	50
110	5.2	134.5	1.2	135.9	44.3	0.9	45.7	20	33
1110	4.4	137.8	1.2	139.1	44.3	0.9	45.8	21	15
189	4.8	129.9	1.3	131.4	44.4	1.0	45.7	22	52

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
1597	5.4	312.4	3.0	310.9	45.6	-1.0	44.3	1 3
1612	4.2	310.7	3.0	309.2	45.7	-1.0	44.4	1 43
1621	5.3	316.7	3.1	315.3	45.8	-0.9	44.3	1 48
22	2.2	317.9	3.1	316.5	45.7	-0.9	44.3	2 44
207	2.7	318.7	3.1	317.4	45.8	-0.9	44.3	7 31
243	2.0	318.3	3.1	317.0	45.8	-0.9	44.3	8 22
1212	4.6	316.9	3.1	315.6	45.7	-0.9	44.3	10 3
373	5.2	315.1	3.0	313.7	45.7	-1.0	44.3	12 3
1283	4.2	317.6	3.1	316.2	45.7	-0.9	44.2	13 1
1301	4.9	317.2	3.1	315.9	45.8	-0.9	44.3	13 47
1345	4.8	317.4	3.1	316.1	45.7	-0.9	44.3	15 20
510	5.1	318.0	3.1	316.6	45.8	-0.9	44.3	15 50
559	4.7	312.3	3.0	310.8	45.7	-1.0	44.4	17 28
1413	5.0	312.5	3.0	311.0	45.7	-1.0	44.4	17 57
1415	5.1	311.2	3.0	309.6	45.6	-1.0	44.3	18 12
597	2.9	312.3	3.0	310.8	45.6	-1.0	44.3	18 21
624	5.0	319.3	3.1	317.9	45.8	-0.9	44.3	18 38
722	5.0	314.6	3.0	313.2	45.7	-1.0	44.4	21 27
1517	5.1	311.9	3.0	310.4	45.7	-1.0	44.4	22 3
773	5.3	317.3	3.1	315.9	45.8	-0.9	44.3	22 42

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
207	2.7	41.2	3.1	42.5	45.7	0.9	44.3	3 33
243	2.0	41.6	3.1	42.9	45.7	0.9	44.2	4 22
1212	4.6	43.0	3.1	44.4	45.7	0.9	44.3	5 55
373	5.2	44.9	3.1	46.3	45.7	1.0	44.3	7 45
1283	4.2	42.6	3.1	44.0	45.8	0.9	44.3	8 56
1301	4.9	42.6	3.1	44.0	45.7	0.9	44.3	9 41
1345	4.8	42.5	3.1	43.8	45.7	0.9	44.3	11 15
510	5.1	41.9	3.1	43.3	45.7	0.9	44.3	11 48
559	4.7	47.8	3.0	49.3	45.7	1.0	44.4	12 54
1413	5.0	47.3	3.0	48.8	45.7	1.0	44.3	13 25
1415	5.1	48.9	3.0	50.5	45.7	1.0	44.4	13 32
597	2.9	47.9	3.0	49.4	45.7	1.0	44.4	13 47
624	5.0	40.7	3.1	42.0	45.7	0.9	44.2	14 43
722	5.0	45.4	3.0	46.8	45.7	1.0	44.3	17 6
1517	5.1	47.9	3.0	49.4	45.6	1.0	44.3	17 28
773	5.3	42.7	3.1	44.0	45.8	0.9	44.3	18 36
1597	5.4	47.6	3.0	49.1	45.6	1.0	44.3	20 30
1612	4.2	49.2	3.0	50.7	45.6	1.0	44.4	21 1
1621	5.3	43.1	3.1	44.5	45.7	0.9	44.3	21 39
22	2.2	42.2	3.1	43.5	45.7	0.9	44.3	22 41

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
686	4.3	222.8	1.1	221.4	44.3	-0.9	45.8	0 48
704	4.4	221.4	1.1	220.1	44.3	-0.9	45.8	1 22
785	3.7	228.3	1.2	226.8	44.3	-1.0	45.7	3 0
841	2.9	224.9	1.1	223.5	44.3	-0.9	45.7	4 36
377	4.1	228.6	1.2	227.1	44.4	-1.0	45.7	5 22
23	4.5	228.1	1.2	228.6	44.3	-1.0	45.6	6 43
39	5.3	222.0	1.1	220.7	44.3	-0.9	45.8	7 36
54	0.6	220.5	1.2	229.0	44.3	-1.0	45.6	7 36
72	3.0	222.4	1.1	221.1	44.3	-0.9	45.8	8 26
84	5.5	224.9	1.1	223.5	44.3	-0.9	45.7	8 43
110	5.2	225.9	1.1	224.5	44.3	-1.0	45.7	9 18
1110	4.4	222.8	1.1	221.5	44.3	-0.9	45.8	10 25
189	4.8	220.3	1.2	228.7	44.3	-1.0	45.6	11 5
262	3.3	222.0	1.1	220.7	44.2	-0.9	45.7	13 17
315	1.7	226.6	1.1	225.1	44.3	-1.0	45.7	14 35
1233	5.3	227.2	1.2	225.7	44.3	-1.0	45.7	15 7
336	4.0	224.5	1.1	223.1	44.3	-0.9	45.8	15 15
351	2.3	227.1	1.2	225.7	44.3	-1.0	45.7	15 27
1254	4.2	221.0	1.1	219.7	44.3	-0.9	45.8	16 18
393	4.1	228.2	1.2	226.7	44.3	-1.0	45.6	16 34
1264	3.4	223.3	1.1	221.9	44.3	-0.9	45.7	16 41
397	3.6	222.7	1.1	221.3	44.2	-0.9	45.7	16 58
1289	4.0	227.7	1.2	226.3	44.3	-1.0	45.6	17 16
443	4.2	223.6	1.1	222.2	44.3	-0.9	45.7	18 9
455	3.1	228.2	1.2	226.7	44.3	-1.0	45.6	18 21
481	1.5	226.4	1.1	224.9	44.3	-1.0	45.7	19 0
1347	4.6	224.0	1.1	222.6	44.2	-0.9	45.7	19 43
518	0.9	225.1	1.1	223.7	44.2	-1.0	45.7	20 20
538	0.3	224.2	1.1	222.8	44.2	-0.9	45.7	20 59
561	4.2	227.9	1.2	226.5	44.3	-1.0	45.7	21 24
1435	3.7	227.4	1.2	225.9	44.3	-1.0	45.7	22 58
648	3.8	224.3	1.1	222.9	44.3	-0.9	45.7	23 50

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L. S. T	
		LAT-58	A	LAT-56	LAT-58	B	LAT-56	HRS MIN
262	3.3	138.0	1.1	139.3	44.2	0.9	45.7	0 19
315	1.7	133.3	1.1	134.8	44.3	1.0	45.7	2 10
336	4.0	135.4	1.1	136.8	44.2	0.9	45.7	2 35
1233	5.3	132.8	1.2	134.3	44.3	1.0	45.7	2 46
351	2.3	132.9	1.2	134.3	44.3	1.0	45.7	3 6
1254	4.2	138.9	1.1	140.2	44.2	0.9	45.7	3 12
1264	3.4	136.7	1.1	138.1	44.3	0.9	45.7	3 52
397	3.6	137.4	1.1	138.7	44.3	0.9	45.8	4 4
393	4.1	131.9	1.2	133.3	44.3	1.0	45.7	4 20
1289	4.0	132.3	1.2	133.8	44.3	1.0	45.7	4 59
443	4.2	136.4	1.1	137.8	44.3	0.9	45.7	5 22
455	3.1	131.9	1.2	133.3	44.3	1.0	45.7	6 7
481	1.5	133.7	1.1	135.1	44.3	1.0	45.7	6 33
1347	4.6	136.1	1.1	137.5	44.3	0.9	45.7	6 59
518	0.9	135.0	1.1	136.4	44.3	1.0	45.8	7 44
538	0.3	135.8	1.1	137.2	44.3	0.9	45.7	8 17
561	4.2	132.1	1.2	133.5	44.3	1.0	45.7	9 8
1435	3.7	132.6	1.2	134.1	44.4	1.0	45.7	10 38
648	3.8	135.6	1.1	137.0	44.2	0.9	45.7	11 9
686	4.3	137.2	1.1	138.6	44.3	0.9	45.7	11 55
704	4.4	138.5	1.1	139.8	44.2	0.9	45.7	12 19
785	3.7	131.6	1.2	133.1	44.3	1.0	45.6	14 47
841	2.9	135.0	1.1	136.4	44.2	0.9	45.7	15 59
877	4.1	131.3	1.2	132.8	44.3	1.0	45.7	17 11
39	5.3	138.0	1.1	139.3	44.3	0.9	45.8	18 37
23	4.5	129.9	1.2	131.4	44.3	1.0	45.6	18 42
72	3.0	137.5	1.1	138.8	44.2	0.9	45.7	19 31
54	0.6	129.4	1.2	131.0	44.3	1.0	45.6	19 38
84	5.5	135.2	1.1	136.6	44.3	0.9	45.8	20 5
110	5.2	134.1	1.1	135.5	44.3	1.0	45.7	20 48
1110	4.4	137.2	1.1	138.5	44.3	0.9	45.8	21 32
189	4.8	129.8	1.2	131.3	44.4	1.0	45.7	23 5

NW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-40, A, LAT-38, LAT-40, B, LAT-38), L.S.T (HRS, MIN). Rows include data points like 842, 1595, 900, etc.

NE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-40, A, LAT-38, LAT-40, B, LAT-38), L.S.T (HRS, MIN). Rows include data points like 1080, 1097, 1111, etc.

SW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-40, A, LAT-38, LAT-40, B, LAT-38), L.S.T (HRS, MIN). Rows include data points like 730, 764, 785, etc.

SE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-40, A, LAT-38, LAT-40, B, LAT-38), L.S.T (HRS, MIN). Rows include data points like 171, 189, 1156, etc.

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26	LAT-28 B	LAT-26	HRS	MIN
834	3.7	313.5	2.6 312.0	45.6	-1.6 44.3	0	15
1614	4.5	313.9	2.7 312.4	45.7	-1.6 44.3	1	32
902	4.0	314.9	2.7 313.5	45.7	-1.6 44.3	2	1
28	4.6	316.4	2.7 315.0	45.7	-1.6 44.3	2	47
36	4.5	317.0	2.7 315.7	45.8	-1.5 44.3	3	0
85	4.3	318.4	2.8 317.1	45.8	-1.5 44.3	4	22
1104	5.4	313.2	2.6 311.8	45.7	-1.6 44.3	5	51
151	3.9	313.0	2.6 311.6	45.7	-1.6 44.4	6	9
1134	3.3	315.2	2.7 313.7	45.7	-1.6 44.3	6	51
201	1.7	313.9	2.7 312.5	45.7	-1.6 44.3	7	29
224	0.6	316.2	2.7 314.8	45.7	-1.6 44.3	7	54
1174	4.5	316.1	2.7 314.7	45.7	-1.6 44.3	8	32
285	3.1	318.4	2.8 317.0	45.7	-1.5 44.3	9	21
1223	4.2	312.8	2.6 311.3	45.7	-1.7 44.3	10	44
734	3.3	313.2	2.6 311.7	45.7	-1.6 44.4	11	1
378	4.9	318.0	2.8 316.6	45.7	-1.5 44.2	11	55
418	4.7	316.2	2.7 314.8	45.8	-1.6 44.4	13	4
427	4.1	313.5	2.6 312.0	45.7	-1.6 44.3	13	26
1322	4.2	314.7	2.7 313.2	45.6	-1.6 44.3	13	48
1311	4.6	314.8	2.7 313.3	45.7	-1.6 44.3	14	3
1328	5.2	317.2	2.8 315.9	45.7	-1.5 44.2	14	42
1375	5.1	313.0	2.6 311.6	45.7	-1.6 44.3	16	30
582	2.8	314.1	2.7 312.7	45.8	-1.6 44.4	17	48
1511	4.7	316.2	2.7 314.8	45.7	-1.6 44.3	21	33
749	3.9	314.0	2.7 312.5	45.7	-1.6 44.3	21	59

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26	LAT-28 B	LAT-26	HRS	MIN
85	4.3	41.6	2.8 43.0	45.8	1.5 44.3	0	32
1104	5.4	46.8	2.6 48.3	45.7	1.6 44.3	1	38
151	3.9	47.0	2.6 48.5	45.7	1.6 44.4	1	55
1134	3.3	44.7	2.7 46.1	45.6	1.6 44.2	2	47
201	1.7	46.1	2.7 47.6	45.7	1.6 44.3	3	19
224	0.6	43.8	2.7 45.2	45.8	1.6 44.3	3	54
1174	4.5	43.8	2.7 45.2	45.7	1.6 44.3	4	32
285	3.1	41.7	2.8 43.0	45.7	1.5 44.3	5	31
1223	4.2	47.3	2.6 48.8	45.7	1.7 44.4	6	25
334	3.3	46.7	2.6 48.2	45.7	1.6 44.3	6	48
378	4.9	42.1	2.8 43.5	45.8	1.5 44.3	8	3
418	4.7	43.8	2.7 45.2	45.8	1.6 44.4	9	4
427	4.1	46.6	2.6 48.0	45.7	1.6 44.4	9	14
1302	4.2	45.5	2.7 46.9	45.7	1.6 44.4	9	41
1311	4.6	45.2	2.7 46.6	45.7	1.6 44.3	9	57
1328	5.2	42.8	2.8 44.2	45.7	1.5 44.2	10	47
1375	5.1	47.1	2.6 48.5	45.7	1.6 44.4	12	16
582	2.8	45.8	2.7 47.2	45.7	1.6 44.3	13	39
1511	4.7	43.9	2.7 45.3	45.7	1.6 44.3	17	33
749	3.9	46.2	2.7 47.6	45.8	1.6 44.4	17	49
834	3.7	46.6	2.6 48.1	45.7	1.6 44.4	20	3
1614	4.5	46.1	2.7 47.6	45.6	1.6 44.3	21	22
902	4.0	45.3	2.7 46.7	45.7	1.6 44.4	21	55
28	4.6	43.6	2.7 45.0	45.8	1.6 44.3	22	48
36	4.5	42.9	2.7 44.3	45.7	1.5 44.3	23	4

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26	LAT-28 B	LAT-26	HRS	MIN
769	3.2	229.6	-0.3 229.1	44.3	-1.7 45.6	0	3
776	4.7	222.8	-0.5 221.5	44.2	-1.5 45.7	0	4
860	3.7	223.7	-0.5 222.3	44.3	-1.5 45.7	2	10
15	4.9	227.4	-0.4 225.9	44.3	-1.6 45.7	3	56
1044	4.0	227.0	-0.4 225.5	44.3	-1.6 45.7	4	56
68	3.7	223.3	-0.5 221.9	44.2	-1.5 45.7	5	17
82	3.8	223.4	-0.5 222.1	44.2	-1.5 45.7	5	38
86	4.4	229.0	-0.3 227.5	44.3	-1.7 45.6	5	53
157	4.4	223.5	-0.5 222.2	44.3	-1.5 45.7	7	38
187	4.9	226.3	-0.4 224.9	44.2	-1.6 45.6	8	29
199	5.5	224.9	-0.5 223.5	44.3	-1.6 45.8	9	43
1159	5.0	222.7	-0.5 221.3	44.3	-1.5 45.7	9	12
245	0.9	221.8	-0.5 220.5	44.2	-1.5 45.7	9	44
263	2.8	224.9	-0.5 223.5	44.2	-1.6 45.7	10	13
1198	4.9	222.1	-0.5 220.8	44.2	-1.5 45.7	10	56
309	1.9	229.7	-0.3 228.2	44.3	-1.7 45.6	11	36
435	5.4	229.4	-0.3 227.9	44.3	-1.7 45.7	15	2
452	2.9	224.9	-0.5 223.5	44.3	-1.6 45.7	15	31
464	4.2	225.6	-0.4 224.2	44.2	-1.6 45.7	15	51
489	4.4	226.1	-0.4 224.7	44.4	-1.6 45.8	16	31
512	3.1	229.9	-0.3 228.4	44.4	-1.7 45.7	17	22
546	5.2	222.4	-0.5 221.1	44.3	-1.5 45.8	18	7
541	2.9	229.7	-0.3 228.2	44.4	-1.7 45.7	18	8
558	3.5	222.8	-0.5 221.5	44.3	-1.5 45.8	18	33
1398	4.1	227.7	-0.4 226.3	44.4	-1.6 45.8	18	37
1411	5.5	222.4	-0.5 221.1	44.3	-1.5 45.8	18	59
624	4.1	225.6	-0.4 224.2	44.3	-1.6 45.7	19	43
651	3.0	226.0	-0.4 224.6	44.3	-1.6 45.7	20	55
662	5.3	223.1	-0.5 221.8	44.3	-1.5 45.8	21	5
1471	3.9	225.7	-0.4 224.3	44.4	-1.6 45.8	21	30
735	5.0	228.5	-0.4 227.0	44.3	-1.6 45.6	23	0

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T	
		LAT-28 A	LAT-26	LAT-28 B	LAT-26	HRS	MIN
157	4.4	136.5	-0.5 137.8	44.3	1.5 45.7	0	53
187	4.9	133.6	-0.4 135.1	44.4	1.6 45.8	1	39
199	5.5	135.1	-0.5 136.5	44.3	1.6 45.7	1	55
1159	5.0	137.3	-0.5 138.7	44.2	1.5 45.7	2	29
245	0.9	138.2	-0.5 139.5	44.2	1.5 45.7	3	3
263	2.8	135.1	-0.5 136.5	44.2	1.6 45.7	3	26
1198	4.9	137.9	-0.5 139.2	44.3	1.5 45.8	4	14
309	1.9	130.3	-0.3 131.8	44.3	1.7 45.6	4	42
435	5.4	130.6	-0.3 132.1	44.3	1.7 45.6	8	8
452	2.9	135.1	-0.5 136.5	44.2	1.6 45.6	8	44
464	4.2	134.4	-0.4 135.8	44.2	1.6 45.6	9	3
489	4.4	133.9	-0.4 135.4	44.3	1.6 45.7	9	41
512	3.1	130.1	-0.3 131.7	44.3	1.7 45.6	10	27
541	2.9	130.3	-0.3 131.8	44.4	1.7 45.7	11	13
546	5.2	137.6	-0.5 138.9	44.3	1.5 45.8	11	24
1398	4.1	132.3	-0.4 133.7	44.4	1.6 45.8	11	44
558	3.5	137.2	-0.5 138.5	44.3	1.5 45.8	11	49
1411	5.5	137.6	-0.5 138.9	44.3	1.5 45.8	12	16
604	4.1	134.4	-0.4 135.8	44.3	1.6 45.7	12	58
651	3.0	134.0	-0.4 135.5	44.2	1.6 45.6	14	6
662	5.3	136.9	-0.5 138.3	44.2	1.5 45.7	14	21
1471	3.9	134.4	-0.4 135.8	44.2	1.6 45.7	14	41
735	5.0	131.5	-0.4 133.0	44.4	1.6 45.7	16	7
769	3.2	130.4	-0.3 131.9	44.3	1.7 45.6	17	9
776	4.7	137.2	-0.5 138.5	44.2	1.5 45.7	17	21
860	3.7	136.3	-0.5 137.7	44.2	1.5 45.7	19	25
15	4.9	132.6	-0.4 134.1	44.3	1.6 45.6	21	5
1044	4.0	133.0	-0.4 134.5	44.3	1.6 45.7	22	5
68	3.7	136.7	-0.5 138.1	44.3	1.5 45.7	22	33
82	3.8	136.5	-0.5 137.9	44.3	1.5 45.8	22	53
86	4.4	131.0	-0.3 132.5	44.4	1.7 45.7	22	59

NW. QUADRANT

CATNO	MAG	AZIMUTH		% D		L. S. T
		LAT-24 A	LAT-22 B	LAT-24 A	LAT-22 B	
855	3.6	316.0	2.6 314.6	45.7	-1.6 44.3	0 42
1603	4.7	313.0	2.5 311.5	45.7	-1.7 44.3	1 14
1625	5.4	316.1	2.6 314.7	45.7	-1.6 44.3	1 53
60	4.5	312.6	2.5 311.1	45.6	-1.7 44.3	3 53
98	4.4	314.4	2.6 313.0	45.7	-1.7 44.4	4 49
123	3.8	313.6	2.5 312.2	45.8	-1.7 44.4	5 33
1142	5.4	314.1	2.6 312.6	45.7	-1.7 44.3	7 14
208	4.5	313.4	2.5 311.9	45.7	-1.7 44.3	7 41
1201	5.3	316.3	2.6 314.9	45.6	-1.6 44.2	9 46
312	3.8	312.8	2.5 311.3	45.7	-1.7 44.4	10 24
337	4.3	318.7	2.7 317.3	45.7	-1.5 44.2	10 53
1238	5.1	316.1	2.6 314.7	45.7	-1.6 44.2	11 8
1246	5.1	317.5	2.7 316.1	45.7	-1.6 44.2	11 29
365	3.8	314.5	2.6 313.0	45.7	-1.7 44.3	11 45
396	3.9	313.3	2.5 311.8	45.6	-1.7 44.3	12 39
409	5.3	315.9	2.6 314.5	45.7	-1.6 44.3	12 50
1326	5.4	315.2	2.6 313.8	45.6	-1.6 44.2	14 44
488	3.0	316.8	2.6 315.4	45.7	-1.6 44.2	15 1
1442	4.3	314.9	2.6 313.5	45.7	-1.7 44.3	18 57
633	4.5	313.3	2.5 311.8	45.6	-1.7 44.3	19 4
690	3.7	313.6	2.5 312.2	45.6	-1.7 44.3	20 13
1484	5.4	312.7	2.5 311.2	45.6	-1.7 44.3	20 44
725	5.1	317.6	2.7 316.3	45.8	-1.6 44.3	21 15
1503	5.2	318.5	2.7 317.2	45.7	-1.5 44.3	21 20
741	2.8	315.6	2.6 314.1	45.7	-1.6 44.3	21 48
788	4.0	316.0	2.6 315.6	45.8	-1.6 44.3	22 32
772	5.2	314.5	2.6 313.1	45.7	-1.7 44.3	22 43
1555	4.8	314.6	2.6 313.1	45.7	-1.7 44.3	23 14
915	2.5	314.0	2.6 312.6	45.7	-1.7 44.3	23 49

NE. QUADRANT

CATNO	MAG	AZIMUTH		% D		L. S. T
		LAT-24 A	LAT-22 B	LAT-24 A	LAT-22 B	
98	4.4	45.5	2.6 46.9	45.7	1.7 44.3	0 39
123	3.8	46.1	2.6 47.6	45.6	1.7 44.3	1 20
1142	5.4	46.1	2.5 47.5	45.7	1.7 44.4	3 2
208	4.5	46.7	2.5 48.2	45.8	1.7 44.4	3 26
1201	5.3	43.8	2.6 45.2	45.7	1.6 44.3	5 44
312	3.8	47.1	2.5 48.6	45.7	1.7 44.4	6 7
337	4.3	41.3	2.7 42.6	45.7	1.5 44.2	7 2
1238	5.1	44.0	2.6 45.4	45.7	1.6 44.3	7 5
1246	5.1	42.7	2.6 44.1	45.8	1.6 44.3	7 32
365	3.8	45.6	2.6 47.0	45.7	1.7 44.3	7 35
396	3.9	46.8	2.5 48.3	45.7	1.7 44.4	8 24
409	5.3	44.2	2.6 45.6	45.7	1.6 44.3	8 46
1326	5.0	44.9	2.6 46.4	45.8	1.6 44.4	10 37
488	3.0	43.3	2.6 44.7	45.7	1.6 44.3	11 1
1442	4.3	45.1	2.6 46.6	45.7	1.7 44.3	14 49
633	4.5	46.8	2.5 48.3	45.7	1.7 44.3	14 49
680	3.7	46.6	2.5 48.0	45.8	1.7 44.3	15 59
1484	5.4	47.3	2.5 48.8	45.6	1.7 44.3	16 27
725	5.1	42.3	2.7 43.6	45.8	1.6 44.3	17 19
1503	5.2	41.5	2.7 42.8	45.7	1.5 44.3	17 28
741	2.8	44.3	2.6 45.8	45.7	1.6 44.3	17 43
768	4.0	42.9	2.6 44.3	45.7	1.6 44.3	18 33
772	5.2	45.6	2.6 47.0	45.7	1.7 44.3	18 33
1555	4.8	45.3	2.6 46.8	45.6	1.7 44.2	19 5
815	2.5	46.1	2.5 47.5	45.7	1.7 44.4	19 37
855	3.6	44.0	2.6 45.4	45.7	1.6 44.3	20 39
1603	4.7	47.0	2.5 48.5	45.7	1.7 44.3	20 58
1625	5.4	43.9	2.6 45.3	45.8	1.6 44.4	21 50
60	4.5	47.5	2.5 49.0	45.7	1.7 44.4	23 35

SW. QUADRANT

CATNO	MAG	AZIMUTH		% D		L. S. T
		LAT-24 A	LAT-22 B	LAT-24 A	LAT-22 B	
829	2.2	226.3	-0.6 224.8	44.3	-1.6 45.7	1 18
956	2.2	226.4	-0.6 225.0	44.3	-1.6 45.7	1 53
1605	4.1	228.8	-0.6 227.3	44.3	-1.7 45.7	2 23
889	4.9	228.4	-0.6 226.9	44.3	-1.7 45.6	2 50
3	3.9	228.0	-0.6 226.6	44.2	-1.7 45.6	3 21
15	4.9	223.5	-0.7 222.1	44.2	-1.6 45.7	3 38
1115	4.7	227.6	-0.6 226.1	44.3	-1.7 45.7	3 53
1044	4.0	223.1	-0.7 221.9	44.3	-1.6 45.8	4 38
67	4.4	227.3	-0.6 225.9	44.3	-1.7 45.7	5 5
86	4.4	225.2	-0.7 223.8	44.2	-1.6 45.7	5 36
167	5.2	229.3	-0.5 227.8	44.3	-1.7 45.6	7 44
187	4.9	222.5	-0.7 221.1	44.3	-1.5 45.7	8 11
1152	5.5	226.2	-0.5 224.8	44.3	-1.6 45.7	8 41
275	4.5	226.8	-0.6 225.4	44.3	-1.7 45.7	10 24
1203	5.3	227.0	-0.6 225.6	44.3	-1.7 45.7	10 59
309	1.9	226.0	-0.6 224.5	44.3	-1.6 45.7	11 20
1226	4.1	227.0	-0.6 225.6	44.3	-1.7 45.7	11 52
342	3.1	226.4	-0.6 224.9	44.3	-1.6 45.7	12 15
1273	5.1	226.5	-0.6 225.1	44.4	-1.6 45.8	13 44
435	5.4	225.6	-0.7 224.1	44.2	-1.6 45.6	14 45
446	4.7	229.2	-0.6 227.7	44.3	-1.7 45.6	15 4
489	4.4	222.2	-0.7 220.9	44.3	-1.5 45.8	16 12
512	3.1	226.1	-0.6 224.6	44.2	-1.6 45.6	17 5
1377	4.7	229.1	-0.5 227.6	44.4	-1.7 45.7	17 39
541	2.9	225.0	-0.6 224.5	44.2	-1.6 45.6	17 51
1398	4.1	223.9	-0.7 222.5	44.3	-1.6 45.7	18 19
596	4.8	229.1	-0.6 227.6	44.3	-1.7 45.6	19 19
651	3.0	222.1	-0.8 220.7	44.2	-1.5 45.7	20 36
1471	3.9	221.8	-0.8 220.4	44.3	-1.5 45.8	21 11
1473	4.6	227.9	-0.6 226.5	44.4	-1.7 45.7	21 23
691	3.8	227.0	-0.6 225.6	44.3	-1.7 45.6	21 39
735	5.0	224.7	-0.7 223.3	44.3	-1.6 45.7	22 43
769	3.2	225.8	-0.6 224.4	44.3	-1.6 45.7	23 47

SE. QUADRANT

CATNO	MAG	AZIMUTH		% D		L. S. T
		LAT-24 A	LAT-22 B	LAT-24 A	LAT-22 B	
167	5.2	130.7	-0.5 132.2	44.3	1.7 45.7	1 16
187	4.9	137.5	-0.7 138.9	44.2	1.5 45.7	1 58
1152	5.5	133.7	-0.6 135.2	44.4	1.6 45.8	2 18
275	4.5	133.2	-0.6 134.7	44.3	1.7 45.7	4 0
1203	5.3	133.0	-0.6 134.4	44.3	1.7 45.7	4 35
309	1.9	134.0	-0.6 135.5	44.3	1.6 45.7	4 58
1226	4.1	133.0	-0.6 134.5	44.3	1.7 45.7	5 28
342	3.7	133.6	-0.6 135.1	44.3	1.6 45.7	5 52
1273	5.1	133.5	-0.6 134.9	44.2	1.6 45.6	7 21
435	5.4	134.4	-0.6 135.8	44.4	1.6 45.8	8 24
446	4.7	130.8	-0.5 132.3	44.3	1.7 45.7	8 36
489	4.4	137.9	-0.8 139.2	44.2	1.5 45.7	10 0
512	3.1	133.9	-0.6 135.3	44.3	1.6 45.7	10 43
1377	4.7	130.9	-0.6 132.4	44.3	1.7 45.6	11 11
541	2.9	134.1	-0.6 135.5	44.3	1.6 45.7	11 30
1398	4.1	136.1	-0.7 137.5	44.3	1.6 45.7	12 2
596	4.8	130.9	-0.6 132.4	44.3	1.7 45.7	12 51
651	3.0	137.9	-0.7 139.2	44.3	1.5 45.8	14 24
1473	4.6	132.1	-0.6 133.6	44.3	1.7 45.7	14 57
1471	3.9	138.3	-0.6 139.6	44.2	1.5 45.7	15 0
691	3.8	132.1	-0.6 133.6	44.3	1.7 45.6	15 13
735	5.0	135.3	-0.7 136.7	44.3	1.6 45.8	16 24
769	3.2	134.1	-0.6 135.6	44.4	1.6 45.8	17 25
829	2.2	133.7	-0.6 135.2	44.3	1.6 45.7	18 56
856	2.2	133.6	-0.6 135.0	44.3	1.6 45.7	19 30
1605	4.1	131.2	-0.6 132.7	44.4	1.7 45.8	19 55
889	4.9	131.5	-0.6 133.0	44.4	1.7 45.7	20 23
3	3.9	131.9	-0.6 133.4	44.4	1.7 45.7	20 55
15	4.9	136.5	-0.7 137.8	44.3	1.6 45.6	21 22
1015	4.7	132.5	-0.6 133.9	44.3	1.7 45.7	21 28
1044	4.0	136.9	-0.7 138.2	44.3	1.6 45.7	22 23
67	4.4	132.8	-0.6 134.2	44.2	1.7 45.6	22 41
86	4.4	134.8	-0.7 136.2	44.3	1.6 45.7	23 16

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT-22	A LAT-20	LAT-22	B LAT-20	HRS	MIN		
843	4.9	315.2	2.5	313.7	45.8	-1.7	44.4	0	25
855	3.6	312.6	2.5	311.1	45.6	-1.7	44.3	0	50
885	4.7	316.3	2.6	314.9	45.8	-1.6	44.3	1	30
1625	5.4	312.7	2.5	311.2	45.7	-1.7	44.3	2	1
125	4.3	316.9	2.6	315.6	45.7	-1.6	44.2	5	30
150	4.0	316.0	2.6	314.6	45.7	-1.6	44.3	6	2
1169	5.1	315.5	2.5	314.1	45.8	-1.7	44.4	8	19
256	3.4	316.8	2.6	315.4	45.8	-1.6	44.4	8	45
1193	4.9	315.1	2.5	313.7	45.7	-1.7	44.3	9	33
1201	5.3	312.6	2.4	311.1	45.7	-1.7	44.4	9	55
337	4.3	315.0	2.5	313.5	45.7	-1.7	44.3	11	2
1238	5.1	312.6	2.5	311.1	45.6	-1.7	44.3	11	16
1246	5.1	313.8	2.5	312.3	45.7	-1.7	44.3	11	38
389	1.3	315.1	2.5	313.6	45.9	-1.7	44.4	12	12
488	3.0	313.1	2.5	311.6	45.7	-1.7	44.4	15	10
1372	5.3	317.3	2.6	315.9	45.7	-1.6	44.3	16	18
635	4.9	316.5	2.6	315.1	45.8	-1.6	44.4	19	6
656	2.1	316.2	2.6	314.8	45.7	-1.6	44.3	19	36
725	5.1	314.7	2.5	312.8	45.6	-1.7	44.3	21	23
1503	5.2	314.8	2.5	313.4	45.7	-1.7	44.3	21	29
768	4.0	313.5	2.5	312.0	45.7	-1.7	44.3	22	40

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT-22	A LAT-20	LAT-22	B LAT-20	HRS	MIN		
125	4.3	43.2	2.6	44.6	45.7	1.6	44.3	1	29
150	4.0	44.1	2.6	45.5	45.7	1.6	44.3	1	57
1169	5.1	44.4	2.5	45.8	45.7	1.7	44.3	4	12
256	3.4	43.0	2.6	44.4	45.7	1.6	44.2	4	44
1193	4.9	45.0	2.5	46.4	45.8	1.7	44.4	5	24
1201	5.3	47.3	2.5	48.7	45.6	1.7	44.3	5	36
337	4.3	45.0	2.5	46.4	45.6	1.7	44.2	6	53
1238	5.1	47.4	2.5	48.9	45.6	1.7	44.3	6	57
1246	5.1	46.1	2.5	47.6	45.6	1.7	44.3	7	24
380	1.3	44.8	2.5	46.3	45.7	1.7	44.3	8	3
488	3.0	46.8	2.5	48.2	45.6	1.7	44.3	10	53
1372	5.3	42.6	2.6	44.0	45.7	1.6	44.2	12	19
635	4.9	43.5	2.6	44.9	45.8	1.6	44.3	15	3
656	2.1	43.8	2.6	45.2	45.7	1.6	44.3	15	32
725	5.1	46.0	2.5	47.4	45.8	1.7	44.4	17	10
1503	5.2	45.2	2.5	46.6	45.7	1.7	44.3	17	19
768	4.0	46.6	2.5	48.1	45.8	1.7	44.4	18	24
843	4.9	44.9	2.5	46.3	45.8	1.7	44.4	20	16
855	3.6	47.4	2.5	48.9	45.6	1.7	44.3	20	31
885	4.7	43.7	2.6	45.1	45.8	1.6	44.4	21	26
1625	5.4	47.3	2.5	48.8	45.7	1.7	44.4	21	42

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT-22	A LAT-20	LAT-22	B LAT-20	HRS	MIN		
829	2.2	224.2	-0.8	222.8	44.2	-1.6	45.7	1	9
946	4.0	229.4	-0.6	227.9	44.4	-1.8	45.7	1	37
856	2.2	224.3	-0.8	222.9	44.3	-1.6	45.7	1	44
1605	4.1	226.8	-0.7	225.4	44.3	-1.7	45.7	2	15
989	4.9	226.4	-0.7	225.0	44.3	-1.7	45.7	2	42
3	3.9	226.7	-0.7	224.6	44.3	-1.7	45.7	3	13
1015	4.7	225.6	-0.8	224.2	44.4	-1.6	45.8	3	45
49	3.4	229.7	-0.6	228.1	44.3	-1.8	45.6	4	36
67	4.4	225.2	-0.8	223.8	44.3	-1.6	45.8	4	57
86	4.4	223.1	-0.9	221.7	44.2	-1.6	45.7	5	27
167	5.2	227.4	-0.7	225.9	44.4	-1.7	45.8	7	37
1152	5.5	224.7	-0.8	222.8	44.3	-1.6	45.7	8	32
275	4.5	224.7	-0.8	223.3	44.3	-1.6	45.7	10	15
1203	5.3	225.7	-0.8	223.6	44.2	-1.6	45.6	10	50
309	1.9	223.9	-0.8	222.5	44.3	-1.6	45.7	11	11
1226	4.1	224.9	-0.8	223.5	44.2	-1.6	45.6	11	43
742	3.7	224.3	-0.8	222.9	44.3	-1.6	45.7	12	6
345	2.2	229.8	-0.6	228.3	44.3	-1.8	45.6	12	16
1273	5.1	224.5	-0.8	223.1	44.3	-1.6	45.7	13	35
435	5.4	223.5	-0.8	222.1	44.2	-1.6	45.7	14	36
446	4.7	227.2	-0.7	225.8	44.3	-1.7	45.6	14	56
512	3.1	224.1	-0.9	222.7	44.4	-1.6	45.8	16	57
1377	4.7	227.1	-0.7	225.7	44.3	-1.7	45.7	17	31
544	2.9	223.9	-0.8	222.5	44.3	-1.6	45.8	17	43
1398	4.1	221.7	-0.9	220.4	44.2	-1.5	45.7	18	9
1410	5.5	228.3	-0.7	226.8	44.3	-1.7	45.6	18	42
596	4.8	227.1	-0.7	225.7	44.3	-1.7	45.7	19	11
1473	4.6	225.9	-0.8	224.4	44.2	-1.7	45.6	21	14
691	3.8	225.8	-0.8	224.4	44.3	-1.7	45.7	21	30
1502	4.3	228.0	-0.7	226.6	44.3	-1.7	45.6	22	28
735	5.0	222.5	-0.8	221.7	44.3	-1.6	45.8	22	34
769	3.2	223.8	-0.8	222.4	44.3	-1.6	45.7	23	38
1542	5.1	228.7	-0.7	227.2	44.3	-1.7	45.7	23	55

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT-22	A LAT-20	LAT-22	B LAT-20	HRS	MIN		
167	5.2	132.7	-0.7	134.1	44.3	1.7	45.7	1	24
1152	5.5	135.8	-0.8	137.2	44.3	1.6	45.8	2	27
275	4.5	135.3	-0.8	136.7	44.3	1.6	45.7	4	9
1203	5.3	135.0	-0.8	136.4	44.4	1.6	45.8	4	43
309	1.9	136.1	-0.8	137.5	44.3	1.6	45.7	5	7
1226	4.1	135.0	-0.8	136.4	44.4	1.6	45.8	5	36
345	2.2	139.2	-0.6	131.7	44.4	1.8	45.7	5	58
342	3.7	135.7	-0.8	137.1	44.3	1.6	45.7	6	1
1273	5.1	135.5	-0.8	136.9	44.3	1.6	45.8	7	29
435	5.4	136.5	-0.8	137.8	44.3	1.6	45.8	8	32
446	4.7	132.8	-0.7	134.2	44.3	1.7	45.7	8	44
512	3.1	136.0	-0.8	137.3	44.3	1.6	45.7	10	52
1377	4.7	132.9	-0.7	134.3	44.3	1.7	45.6	11	19
544	2.9	136.2	-0.8	137.5	44.2	1.6	45.7	11	39
1398	4.1	138.3	-0.9	139.6	44.2	1.5	45.7	12	12
1410	5.5	131.7	-0.7	133.1	44.4	1.7	45.7	12	27
596	4.8	132.9	-0.7	134.3	44.3	1.7	45.7	12	59
1473	4.6	134.1	-0.7	135.5	44.3	1.7	45.7	15	5
691	3.8	134.2	-0.8	135.6	44.3	1.7	45.7	15	21
1502	4.3	131.9	-0.7	133.4	44.3	1.7	45.7	16	14
735	5.0	137.5	-0.8	138.8	44.2	1.6	45.7	16	34
769	3.2	136.2	-0.8	137.6	44.3	1.6	45.8	17	34
1542	5.1	131.3	-0.7	132.7	44.4	1.7	45.7	17	39
829	2.2	135.7	-0.8	137.1	44.4	1.6	45.8	19	4
846	4.0	130.6	-0.7	132.1	44.3	1.8	45.6	19	20
856	2.2	135.7	-0.8	137.1	44.3	1.6	45.7	19	39
1605	4.1	133.2	-0.7	134.6	44.4	1.7	45.8	20	3
889	4.9	133.5	-0.7	135.0	44.4	1.7	45.8	20	31
3	3.9	134.0	-0.7	135.4	44.2	1.7	45.6	21	4
1015	4.7	134.5	-0.8	135.9	44.3	1.6	45.7	21	36
49	3.4	130.3	-0.6	131.9	44.3	1.8	45.6	22	19
67	4.4	134.8	-0.8	136.2	44.3	1.6	45.7	22	49
86	4.4	136.9	-0.8	138.2	44.3	1.6	45.8	23	25

NW. QUADRANT

NE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-14, A, LAT-12, LAT-14, B, LAT-12), Z.D, L.S.T (HRS, MIN). Rows 898-1570.

Table with columns: CATNO, MAG, AZIMUTH (LAT-14, A, LAT-12, LAT-14, B, LAT-12), Z.D, L.S.T (HRS, MIN). Rows 114-166.

SW. QUADRANT

SE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-14, A, LAT-12, LAT-14, B, LAT-12), Z.D, L.S.T (HRS, MIN). Rows 802-793.

Table with columns: CATNO, MAG, AZIMUTH (LAT-14, A, LAT-12, LAT-14, B, LAT-12), Z.D, L.S.T (HRS, MIN). Rows 106-175.

NW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-10, A, LAT -8, LAT-10, B, LAT -8), Z.D, L.S.T (HRS, MIN). Rows 859-1565.

NE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-10, A, LAT -8, LAT-10, B, LAT -8), Z.D, L.S.T (HRS, MIN). Rows 89-1565.

SW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-10, A, LAT -8, LAT-10, B, LAT -8), Z.D, L.S.T (HRS, MIN). Rows 822-797.

SE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT-10, A, LAT -8, LAT-10, B, LAT -8), Z.D, L.S.T (HRS, MIN). Rows 143-6.

NW. QUADRANT										NE. QUADRANT									
CATNO	MAG	AZIMUTH				Z. D		L. S. T		CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT -6	A	LAT -4	B	LAT -6	B	LAT -4	HRS			MIN	LAT -6	A	LAT -4	B	LAT -6	B	LAT -4
823	5.1	315.7	2.0	314.1	45.6	-1.8	44.2	0	7	94	4.6	41.1	2.1	42.4	45.7	1.7	44.2	0	34
831	4.0	314.6	1.9	311.2	45.6	-1.8	44.3	0	23	100	3.7	41.9	2.1	43.2	45.7	1.7	44.2	0	39
862	3.7	313.2	1.9	311.7	45.7	-1.8	44.4	1	9	136	3.8	47.4	1.9	48.9	45.6	1.9	44.3	1	23
1629	4.8	314.1	1.9	312.7	45.7	-1.8	44.4	2	15	139	3.0	47.5	1.9	49.0	45.7	1.9	44.4	1	25
27	4.3	312.7	1.9	311.2	45.7	-1.9	44.3	3	7	142	3.8	47.5	1.9	49.0	45.6	1.9	44.3	1	27
45	4.7	317.9	2.0	316.6	45.8	-1.7	44.3	3	29	1158	4.5	41.1	2.1	42.4	45.7	1.7	44.2	3	44
94	4.6	318.9	2.1	317.5	45.8	-1.7	44.3	4	51	254	3.2	45.6	1.9	47.1	45.7	1.8	44.3	4	25
100	3.7	318.1	2.1	316.7	45.7	-1.7	44.3	4	59	1192	5.2	47.1	1.9	48.6	45.6	1.8	44.3	4	41
136	3.8	312.5	1.9	311.0	45.7	-1.9	44.4	6	5	294	3.7	46.9	1.9	48.4	45.7	1.8	44.4	5	23
139	3.0	312.6	1.9	311.1	45.6	-1.9	44.3	6	7	1196	4.2	42.3	2.0	43.7	45.7	1.7	44.2	5	24
142	3.8	312.4	1.9	311.0	45.6	-1.9	44.3	6	9	1207	5.0	42.5	2.0	43.9	45.7	1.7	44.2	5	41
1158	4.5	319.8	2.1	317.4	45.9	-1.7	44.3	8	1	1217	5.2	41.8	2.1	43.1	45.7	1.7	44.3	6	5
254	3.2	314.5	1.9	313.0	45.7	-1.8	44.3	9	0	1244	4.6	43.6	2.0	45.0	45.7	1.7	44.3	7	10
1182	5.2	312.9	1.9	311.3	45.7	-1.8	44.4	9	22	367	3.1	47.8	1.9	49.3	45.7	1.9	44.3	7	23
1196	4.2	317.6	2.0	316.2	45.8	-1.7	44.3	9	46	371	4.1	44.0	2.0	45.4	45.8	1.8	44.3	7	37
294	3.7	313.2	1.9	311.7	45.7	-1.8	44.3	10	3	1318	4.8	44.1	2.0	45.5	45.7	1.8	44.2	10	7
1207	5.0	317.4	2.0	316.0	45.8	-1.7	44.3	10	4	1332	5.1	41.1	2.1	42.5	45.8	1.7	44.3	10	42
1217	5.2	319.2	2.1	316.8	45.8	-1.7	44.3	10	29	522	4.8	45.5	1.9	47.8	45.7	1.8	44.3	11	52
1244	4.6	316.4	2.0	315.0	45.7	-1.7	44.3	11	37	1383	4.9	43.0	2.0	44.4	45.8	1.7	44.3	12	30
371	4.1	316.1	2.0	314.7	45.7	-1.7	44.3	12	6	1396	5.0	46.0	1.9	47.4	45.7	1.8	44.4	12	48
367	3.1	312.3	1.9	310.8	45.6	-1.9	44.3	12	6	557	4.7	42.2	2.0	43.5	45.7	1.7	44.2	12	53
1318	4.8	315.9	2.0	314.5	45.7	-1.8	44.2	14	36	578	2.3	42.7	2.0	44.1	45.7	1.7	44.3	13	22
1332	5.1	318.9	2.1	317.6	45.7	-1.7	44.2	14	59	593	4.2	42.3	2.0	43.7	45.7	1.7	44.2	13	46
522	4.9	314.5	1.9	313.0	45.7	-1.8	44.3	16	27	1400	5.2	46.4	1.9	47.8	45.7	1.8	44.3	14	32
1383	4.9	317.0	2.0	315.6	45.7	-1.7	44.3	16	55	641	3.2	46.0	1.9	47.5	45.6	1.8	44.3	14	56
557	4.7	317.0	2.0	316.5	45.7	-1.7	44.2	17	14	1460	4.5	43.8	2.0	45.2	45.7	1.7	44.2	15	16
1396	5.0	314.0	1.9	312.5	45.8	-1.8	44.4	17	25	1468	5.5	44.0	2.0	45.4	45.7	1.8	44.3	15	40
578	3.7	317.0	2.0	315.9	45.8	-1.7	44.3	17	46	1488	4.9	42.9	2.0	44.3	45.7	1.7	44.2	16	33
593	4.2	317.6	2.0	316.2	45.7	-1.7	44.3	18	8	1508	4.6	46.4	1.9	47.9	45.6	1.8	44.2	17	9
1400	5.2	313.6	1.9	312.1	45.7	-1.8	44.3	19	10	1515	5.5	44.6	2.0	46.1	45.8	1.8	44.3	17	27
641	3.2	313.9	1.9	312.4	45.7	-1.8	44.4	19	33	760	5.5	46.5	1.9	47.9	45.6	1.8	44.2	17	57
1460	4.5	316.2	2.0	314.7	45.7	-1.7	44.3	19	44	823	5.1	44.4	2.0	45.8	45.7	1.8	44.3	19	37
1468	5.5	316.0	2.0	314.6	45.7	-1.8	44.3	20	0	831	4.0	45.4	1.9	46.8	45.7	1.8	44.3	19	49
1488	4.9	317.0	2.0	315.6	45.8	-1.7	44.4	20	58	862	3.7	46.8	1.9	48.3	45.7	1.8	44.4	20	29
1508	4.6	313.5	1.9	312.0	45.7	-1.8	44.3	21	47	1629	4.8	45.8	1.9	47.2	45.7	1.8	44.3	21	39
1515	5.5	315.5	2.0	314.1	45.6	-1.8	44.2	21	59	27	4.3	47.4	1.9	48.9	45.8	1.9	44.4	22	25
760	5.5	313.5	1.9	312.0	45.6	-1.9	44.3	22	35	45	4.7	42.0	2.0	43.4	45.7	1.7	44.3	23	8

SW. QUADRANT										SE. QUADRANT									
CATNO	MAG	AZIMUTH				Z. D		L. S. T		CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT -6	A	LAT -4	B	LAT -6	B	LAT -4	HRS			MIN	LAT -6	A	LAT -4	B	LAT -6	B	LAT -4
914	4.4	227.7	-1.5	225.8	44.3	-1.8	45.7	0	15	101	4.5	131.6	-1.5	133.1	44.4	1.8	45.8	0	15
932	4.6	227.2	-1.5	225.8	44.2	-1.8	45.6	0	39	133	4.9	130.9	-1.4	132.4	44.4	1.8	45.7	1	7
1592	4.4	228.7	-1.5	226.9	44.3	-1.8	45.6	1	3	1121	4.1	134.3	-1.5	135.8	44.3	1.8	45.7	1	55
1601	5.1	224.3	-1.6	222.9	44.2	-1.7	45.7	1	28	197	4.9	135.8	-1.6	137.1	44.3	1.7	45.7	2	51
879	4.5	228.0	-1.5	226.5	44.3	-1.8	45.7	1	50	215	2.8	134.4	-1.6	135.8	44.2	1.8	45.6	3	11
1618	5.3	228.8	-1.4	227.3	44.3	-1.8	45.6	2	13	223	3.2	137.2	-1.6	138.5	44.3	1.7	45.6	3	27
6	5.2	223.6	-1.6	222.2	44.2	-1.7	45.7	2	35	1160	4.4	136.4	-1.6	137.7	44.3	1.7	45.6	3	32
1048	5.3	228.4	-1.5	226.9	44.3	-1.8	45.6	4	14	238	4.5	136.2	-1.6	137.5	44.2	1.7	45.7	3	51
301	4.5	228.3	-1.5	226.9	44.3	-1.8	45.7	5	21	1180	3.8	131.7	-1.5	133.1	44.4	1.8	45.7	4	16
133	4.9	229.2	-1.4	227.7	44.4	-1.9	45.8	6	16	290	4.6	135.8	-1.6	137.2	44.3	1.7	45.7	5	11
1121	4.1	225.7	-1.5	224.3	44.4	-1.8	45.8	6	52	1219	4.9	132.5	-1.5	134.0	44.3	1.8	45.7	5	49
197	4.9	224.2	-1.6	222.8	44.2	-1.7	45.6	7	42	327	3.7	132.8	-1.5	134.2	44.3	1.8	45.6	6	12
215	2.8	225.6	-1.5	224.2	44.3	-1.8	45.7	8	7	356	4.6	137.4	-1.6	138.8	44.2	1.7	45.7	7	6
223	3.2	227.7	-1.6	221.4	44.2	-1.7	45.7	9	13	377	5.3	137.3	-1.6	138.6	44.3	1.7	45.8	7	35
1160	4.4	223.5	-1.6	222.2	44.2	-1.7	45.7	9	21	434	3.7	130.5	-1.4	132.0	44.4	1.9	45.7	8	57
338	4.5	223.9	-1.6	222.5	44.3	-1.7	45.8	9	41	439	4.0	135.4	-1.6	136.7	44.2	1.7	45.7	9	13
1180	3.8	228.7	-1.5	226.8	44.3	-1.8	45.7	9	22	1331	5.0	134.1	-1.5	135.5	44.2	1.8	45.7	10	21
290	4.6	224.2	-1.6	222.8	44.2	-1.7	45.7	10	2	506	4.4	132.5	-1.5	133.9	44.3	1.8	45.7	11	13
1219	4.9	227.5	-1.5	226.0	44.3	-1.8	45.7	10	52	544	4.1	136.0	-1.6	137.4	44.3	1.7	45.8	12	17
327	3.7	227.3	-1.5	225.9	44.3	-1.8	45.7	11	14	1389	5.3	133.8	-1.5	135.2	44.4	1.8	45.8	12	25
356	4.6	222.6	-1.6	221.3	44.3	-1.7	45.7	11	51	586	4.1	133.5	-1.5	134.9	44.3	1.8	45.7	13	20
377	5.3	222.7	-1.6	221.4	44.3	-1.7	45.8	12	21	1831	4.3	135.4	-1.6	136.8	44.2	1.7	45.6	14	4
409	4.9	224.7	-1.6	223.3	44.3	-1.7	45.8	14	6	628	2.4	134.6	-1.6	136.0	44.3	1.8	45.7	14	21
834	3.7	228.5	-1.4	228.0	44.4	-1.9	45.7	14	7	689	2.0	134.8	-1.6	136.2	44.4	1.7	45.8	15	55
1331	5.0	225.9	-1.5	224.5	44.2	-1.8	45.6	15	18	751	4.4	136.5	-1.6	137.8	44.3	1.7	45.7	17	34
506	4.4	227.5	-1.5	226.1	44.3	-1.8	45.7	16	16	1540	5.5	133.4	-1.5	134.9	44.3	1.8	45.7	18	9
544	4.1	224.7	-1.6	222.6	44.3	-1.7	45.8	17	8	1550	4.7	131.5	-1.5	133.0	44.3	1.8	45.6	18	27
1389	5.3	226.7	-1.5	224.8	44.4	-1.8	45.9	17	24	901	4.8	131.3	-1.4	132.8	44.4	1.8	45.7	18	43
586	4.1	226.6	-1.5	225.1	44.4	-1.8	45.8	18	20	814	4.4	132.8	-1.5	134.2	44.3	1.8	45.6	19	13
1431	4.3	224.7	-1.6	223.3	44.4	-1.7	45.8	18	57	832	4.6	132.7	-1.5	134.1	44.3	1.8	45.7	19	36
628	2.4	225.4	-1.5	224.0	44.4	-1.8	45.8	19	17	1592	4.4	131.6	-1.5	133.1	44.4	1.8	45.8		

NW. QUADRANT										NE. QUADRANT													
CATNO MAG		AZIMUTH				Z. D		L. S. T		HRS	MIN	CATNO MAG		AZIMUTH				Z. D		L. S. T		HRS	MIN
LAT	-4	A	LAT	-2	LAT	-4	B	LAT	-2			LAT	-4	A	LAT	-2	LAT	-4	B	LAT	-2		
923	5.1	312.7	1.8	311.3	45.7	-1.9	44.3	0	15	94	4.6	44.2	1.9	45.6	45.8	1.8	44.3	0	25				
870	2.6	316.4	1.9	315.0	45.8	-1.7	44.4	1	19	100	3.7	45.0	1.9	46.4	45.8	1.8	44.4	0	30				
1	2.2	318.4	2.0	317.0	45.7	-1.7	44.2	2	19	202	1.8	42.5	1.9	43.9	45.8	1.7	44.4	3	11				
19	4.5	318.6	2.0	317.3	45.8	-1.7	44.3	2	49	1158	4.5	44.2	1.9	45.6	45.7	1.8	44.3	3	35				
45	4.7	315.0	1.9	313.6	45.7	-1.8	44.3	3	17	282	3.9	43.8	1.9	45.2	45.8	1.8	44.3	5	8				
94	4.6	315.9	1.9	314.5	45.7	-1.9	44.2	4	59	1196	4.2	45.4	1.9	46.9	45.8	1.8	44.4	5	15				
100	3.7	315.1	1.9	313.7	45.6	-1.8	44.2	5	7	295	1.2	43.3	1.9	44.7	45.7	1.7	44.2	5	29				
202	1.8	317.5	1.9	316.1	45.8	-1.7	44.3	7	39	1207	5.0	45.5	1.9	46.9	45.6	1.8	44.2	5	33				
1158	4.5	315.8	1.9	314.4	45.7	-1.9	44.3	8	9	305	5.0	43.8	1.9	45.2	45.7	1.7	44.3	5	46				
282	3.9	316.2	1.9	314.8	45.8	-1.8	44.3	9	41	1217	5.2	44.7	1.9	46.1	45.7	1.8	44.2	6	1				
1196	4.2	314.7	1.9	313.2	45.7	-1.8	44.3	9	54	328	4.2	42.0	2.0	43.3	45.7	1.7	44.2	6	33				
295	1.2	316.6	1.9	315.2	45.8	-1.7	44.4	10	1	1244	4.6	46.5	1.8	48.0	45.7	1.8	44.3	7	2				
1207	5.0	314.4	1.9	313.0	45.7	-1.8	44.3	10	12	371	4.1	46.7	1.8	48.2	45.6	1.8	44.3	7	30				
305	5.0	316.3	1.9	314.9	45.6	-1.7	44.2	10	18	1318	4.8	47.0	1.8	48.5	45.7	1.8	44.3	9	59				
1217	5.2	315.3	1.9	313.8	45.7	-1.8	44.3	10	37	1332	5.1	44.1	1.9	45.5	45.7	1.8	44.3	10	34				
328	4.2	318.0	2.0	316.7	45.7	-1.7	44.2	10	58	492	4.3	43.6	1.9	45.0	45.8	1.7	44.3	10	55				
1244	4.6	313.5	1.8	312.1	45.7	-1.8	44.3	11	45	1383	4.9	45.9	1.8	47.4	45.7	1.8	44.4	12	22				
371	4.1	313.1	1.8	311.7	45.8	-1.8	44.4	12	14	557	4.7	45.1	1.9	46.6	45.6	1.8	44.2	12	45				
1318	4.8	313.0	1.8	311.5	45.7	-1.8	44.3	14	44	578	2.3	45.6	1.9	47.1	45.7	1.8	44.3	13	14				
1332	5.1	315.9	1.9	314.4	45.8	-1.8	44.4	15	8	572	3.7	41.3	2.0	42.6	45.7	1.7	44.2	13	16				
492	4.3	316.4	1.9	315.0	45.8	-1.7	44.3	15	27	593	4.2	45.4	1.9	46.9	45.8	1.8	44.3	13	17				
1383	4.9	314.1	1.8	312.6	45.7	-1.8	44.3	17	3	1460	4.5	46.7	1.8	48.2	45.7	1.8	44.3	15	8				
557	4.7	314.7	1.9	313.3	45.8	-1.8	44.4	17	23	667	3.5	46.0	1.9	45.4	45.7	1.8	44.3	15	29				
572	3.7	318.7	2.0	317.4	45.7	-1.7	44.2	17	38	1468	5.5	47.0	1.8	48.4	45.8	1.8	44.4	15	32				
578	2.3	314.3	1.8	312.9	45.8	-1.8	44.4	17	54	674	3.8	41.2	2.0	42.6	45.7	1.7	44.2	15	46				
593	4.2	314.7	1.9	313.2	45.7	-1.8	44.3	18	16	681	3.8	42.1	2.0	43.5	45.7	1.7	44.2	15	54				
1461	4.5	313.2	1.8	311.8	45.7	-1.8	44.4	19	52	1488	4.9	45.9	1.8	47.3	45.7	1.8	44.3	16	25				
667	3.5	316.1	1.9	314.7	45.7	-1.8	44.2	20	2	1498	5.5	42.5	1.9	43.8	45.8	1.7	44.3	16	52				
674	3.8	318.9	2.0	317.4	45.7	-1.7	44.3	20	9	732	3.2	43.6	1.9	45.0	45.7	1.7	44.3	17	14				
1468	5.5	313.1	1.8	311.6	45.7	-1.8	44.4	20	17	1515	5.5	47.4	1.8	48.9	45.6	1.8	44.3	17	20				
691	3.8	317.8	2.0	316.4	45.9	-1.7	44.3	20	20	1523	4.7	43.9	1.9	45.3	45.6	1.8	44.2	17	44				
1488	4.9	314.1	1.8	312.6	45.8	-1.8	44.4	21	6	786	5.2	43.5	1.9	44.9	45.7	1.7	44.3	18	38				
1498	5.5	317.6	2.0	316.3	45.7	-1.7	44.2	21	19	823	5.1	47.3	1.8	48.8	45.7	1.8	44.4	19	29				
732	3.2	316.3	1.9	314.9	45.7	-1.7	44.3	21	46	870	2.6	43.5	1.9	44.9	45.7	1.7	44.3	20	47				
1515	5.5	312.6	1.8	311.1	45.7	-1.9	44.3	22	6	1	2.2	41.8	2.0	43.1	45.8	1.7	44.3	21	55				
1523	4.7	316.0	1.9	314.6	45.7	-1.8	44.3	22	17	19	4.5	41.4	2.0	42.7	45.8	1.7	44.3	22	26				
786	5.2	316.6	1.9	315.2	45.6	-1.7	44.2	23	9	45	4.7	44.9	1.9	46.4	45.7	1.8	44.3	23	11				
SW. QUADRANT										SE. QUADRANT													
CATNO MAG		AZIMUTH				Z. D		L. S. T		HRS	MIN	CATNO MAG		AZIMUTH				Z. D		L. S. T		HRS	MIN
LAT	-4	A	LAT	-2	LAT	-4	B	LAT	-2			LAT	-4	A	LAT	-2	LAT	-4	B	LAT	-2		
814	4.4	224.6	-1.7	223.2	44.3	-1.7	45.7	0	7	101	4.5	134.4	-1.6	135.8	44.3	1.8	45.7	0	23				
832	4.6	224.5	-1.7	223.1	44.2	-1.7	45.6	0	30	133	4.9	133.6	-1.6	135.0	44.3	1.8	45.7	1	15				
1592	4.4	225.8	-1.6	224.3	44.4	-1.8	45.8	0	56	1121	4.1	137.1	-1.7	138.4	44.3	1.7	45.8	2	3				
879	4.5	225.3	-1.7	223.9	44.2	-1.8	45.6	1	42	170	3.9	131.2	-1.5	132.7	44.4	1.5	45.7	2	4				
1618	5.3	226.2	-1.6	224.8	44.4	-1.8	45.8	2	6	215	2.8	137.1	-1.7	138.5	44.3	1.7	45.8	3	19				
1026	5.5	227.0	-1.6	225.6	44.3	-1.8	45.7	3	29	1190	3.8	134.4	-1.6	135.8	44.3	1.8	45.7	4	24				
1048	5.3	225.8	-1.6	224.4	44.4	-1.8	45.8	4	7	1210	4.9	130.6	-1.5	132.1	44.4	1.6	45.7	5	25				
78	5.2	228.4	-1.5	227.0	44.3	-1.8	45.7	4	42	1219	4.9	135.2	-1.7	136.6	44.3	1.7	45.7	5	57				
101	4.5	225.6	-1.6	224.1	44.2	-1.8	45.6	5	13	327	3.7	125.5	-1.7	126.9	44.2	1.7	45.7	6	20				
133	4.9	226.4	-1.6	225.0	44.3	-1.8	45.7	6	9	382	4.4	131.9	-1.6	133.3	44.3	1.8	45.6	7	57				
1121	4.1	222.8	-1.7	221.5	44.2	-1.7	45.7	6	43	434	3.7	123.2	-1.6	124.6	44.2	1.8	45.6	9	5				
170	3.9	228.7	-1.5	227.3	44.3	-1.9	45.6	7	5	1311	5.0	136.8	-1.7	138.2	44.3	1.7	45.8	10	29				
215	2.8	222.9	-1.7	221.5	44.3	-1.7	45.8	7	59	1342	5.4	132.5	-1.6	133.9	44.4	1.8	45.8	10	47				
1180	3.8	225.6	-1.6	224.2	44.3	-1.8	45.7	9	14	506	4.4	135.2	-1.7	136.6	44.3	1.7	45.7	11	21				
1210	4.9	229.3	-1.5	227.8	44.3	-1.9	45.6	10	23	1389	5.3	136.7	-1.7	138.0	44.2	1.7	45.7	12	34				
1219	4.9	224.7	-1.7	223.3	44.3	-1.7	45.7	10	40	1399	5.0	132.6	-1.6	134.0	44.3	1.8	45.7	12	45				
327	3.7	224.6	-1.7	223.2	44.3	-1.7	45.7	11	6	586	4.1	136.2	-1.7	137.6	44.3	1.7	45.7	13	28				
392	4.4	228.2	-1.6	226.7	44.4	-1.8	45.7	12	56	628	2.4	137.5	-1.7	138.9	44.2	1.7	45.7	14	30				
434	3.7	226.8	-1.5	225.4	44.2	-1.8	45.6	13	59	679	3.1	130.8	-1.5	132.3	44.4	1.5	45.7	15	33				
1331	5.0	223.2	-1.7	221.8	44.2	-1.7	45.7	15	10	689	2.0	137.7	-1.7	139.0	44.3	1.7	45.8	16	4				
1342	5.4	227.4	-1.6	226.0	44.3	-1.8	45.7	15	44	1540	5.5	136.1	-1.7	137.5	44.3	1.7	45.8	18	17				
506	4.4	224.8	-1.7	223.4	44.2	-1.7	45.7	16	8	1550	4.7	134.0	-1.6	135.5	44.4	1.8	45.8	18	34				
1389	5.3	223.3	-1.7	222.0	44.2	-1.7	45.7	17	15	801	4.8	134.0	-1.6	135.4	44.3	1.8	45.7	18	51				
1290	5.0	227.4	-1.6	226.0	44.4	-1.8	45.8	17	42	814	4.4	135.5	-1.7	136.9	44.2	1.7	45.7	19	21				
586	4.1	223.7	-1.7	222.3	44.2	-1.7	45.7	18	11	832	4.6	135.4	-1.7	136.8	44.3	1.7	45.7	19	44				
628	2.4	222.5	-1.7	221.2	44.2	-1.7	45.7	19	8	1592	4.4	134.3	-1.6	135.7	44.3	1.8	45.7	20	5				
679	3.1	229.2	-1.5	227.7	44.4	-1.9	45.7	20	36	879	4.5	134.6	-1.6	136.0	44.3	1.8	45.7	20	53				
689	2.0	222.4	-1.7	221.0	44.3	-1.7	45.9	20	42	1618	5.3	133.9	-1.6	135.4	44.2	1.8	45.6	21	14				
1540	5.5	223.9	-1.7	222.5	44.3	-1.7	45.7	23	1	1026	5.5	133.0	-1.6	134.4	44.3	1.8	45.7	22	34				
1550	4.7	225.9	-1.5	224.5	44.4	-1.8	45.8	23	26	1048	5.3	134.3	-1.6	135.7	44.3	1.8	45.7	23	16				
801	4.8	226.1	-1.6	224.7	44.4	-1.8	45.8	23	43	78	5.2	131.6	-1.5	133.0	44.3	1.8	45.7	23					

NW. QUADRANT									NE. QUADRANT												
CATNO	MAG	AZIMUTH				Z. D			L. S. T		CATNO	MAG	AZIMUTH				Z. D			L. S. T	
		LAT -2	A	LAT 0	LAT -2	B	LAT 0	HRS	MIN	LAT -2			A	LAT 0	LAT -2	B	LAT 0	HRS	MIN		
1575	5.0	317.2	1.9	315.8	45.8	-1.7	44.3	0	6	1068	5.4	43.5	1.8	44.9	45.6	1.7	44.2	0	9		
857	3.1	317.2	1.9	315.9	45.8	-1.7	44.3	0	59	94	4.6	46.9	1.7	48.4	45.6	1.8	44.3	0	18		
879	2.6	313.7	1.8	312.2	45.6	-1.8	44.3	1	26	100	3.7	47.7	1.7	49.2	45.6	1.9	44.3	0	23		
1	2.2	315.3	1.8	313.9	45.7	-1.8	44.3	2	28	202	1.8	45.4	1.8	46.8	45.8	1.8	44.4	3	3		
20	3.5	318.5	1.9	317.2	45.7	-1.7	44.2	2	52	1158	4.5	47.0	1.7	48.5	45.7	1.9	44.4	3	27		
19	4.5	315.8	1.8	314.3	45.7	-1.8	44.3	2	57	1168	4.5	43.8	1.8	45.2	45.8	1.8	44.4	3	55		
43	4.7	317.0	1.8	315.6	45.8	-1.7	44.4	3	28	282	3.9	46.7	1.7	48.1	45.8	1.8	44.4	5	0		
45	4.7	312.3	1.7	310.8	45.6	-1.9	44.3	3	44	295	1.2	46.2	1.8	47.6	45.7	1.8	44.3	5	21		
64	3.6	316.2	1.8	314.8	45.8	-1.8	44.3	4	11	305	5.0	46.6	1.7	48.1	45.7	1.8	44.4	5	38		
1068	5.4	316.5	1.8	315.1	45.7	-1.7	44.2	4	45	1217	5.2	47.6	1.7	49.0	45.7	1.9	44.4	5	53		
94	4.6	313.0	1.7	311.6	45.7	-1.8	44.3	5	7	328	4.2	44.8	1.8	46.3	45.6	1.8	44.2	6	25		
100	3.7	312.3	1.7	310.8	45.7	-1.9	44.4	5	15	407	5.4	47.4	1.9	42.8	45.7	1.7	44.2	8	31		
202	1.9	314.6	1.8	313.2	45.8	-1.8	44.4	7	47	1332	5.1	46.9	1.7	48.4	45.7	1.8	44.4	10	26		
1158	4.5	313.0	1.7	311.5	45.7	-1.9	44.4	8	17	492	4.3	46.4	1.7	47.9	45.8	1.8	44.4	10	47		
1168	4.5	316.2	1.8	314.8	45.8	-1.8	44.3	8	33	534	3.8	42.0	1.9	43.4	45.7	1.7	44.2	12	16		
282	3.9	313.5	1.7	312.0	45.6	-1.8	44.2	9	48	1300	4.5	43.2	1.8	44.6	45.8	1.7	44.3	12	16		
295	1.2	313.9	1.8	312.4	45.6	-1.8	44.3	10	7	572	3.7	44.4	1.8	45.8	45.8	1.8	44.3	13	7		
305	5.0	313.5	1.7	312.0	45.6	-1.8	44.3	10	26	638	3.9	47.2	1.9	42.5	45.8	1.7	44.3	14	46		
1217	5.2	312.4	1.7	310.9	45.8	-1.9	44.4	11	45	667	3.5	46.8	1.7	48.3	45.7	1.8	44.4	15	21		
328	4.2	315.2	1.8	313.7	45.6	-1.8	44.2	11	6	674	3.8	44.3	1.8	45.7	45.8	1.8	44.4	15	37		
407	5.4	319.5	1.9	317.1	45.8	-1.7	44.3	12	59	681	3.8	45.0	1.8	46.4	45.6	1.8	44.2	15	46		
1332	5.1	313.1	1.7	311.7	45.6	-1.8	44.3	15	15	1498	5.5	45.3	1.8	46.8	45.7	1.8	44.3	16	44		
492	4.3	313.6	1.7	312.1	45.8	-1.8	44.4	15	35	732	3.2	46.5	1.7	46.0	45.7	1.8	44.4	17	6		
534	3.8	318.0	1.9	316.6	45.7	-1.7	44.2	16	46	1523	4.7	46.8	1.7	48.3	45.7	1.8	44.3	17	36		
1380	4.5	316.9	1.9	315.5	45.7	-1.7	44.2	16	51	1534	4.1	42.3	1.9	43.7	45.7	1.7	44.2	18	13		
572	3.7	315.6	1.8	314.2	45.7	-1.8	44.3	17	47	785	5.2	46.4	1.7	47.8	45.7	1.8	44.3	18	30		
634	3.9	318.8	1.9	317.5	45.7	-1.7	44.3	19	13	797	3.4	42.6	1.9	43.9	45.7	1.7	44.2	18	56		
667	3.5	313.7	1.7	311.8	45.7	-1.8	44.3	20	10	1575	5.0	42.8	1.9	44.2	45.8	1.7	44.3	19	32		
674	3.8	315.7	1.8	314.3	45.8	-1.8	44.4	20	17	857	3.1	42.6	1.9	44.0	45.6	1.7	44.2	20	26		
681	3.8	314.9	1.8	313.5	45.7	-1.8	44.3	20	29	870	2.6	46.4	1.7	47.9	45.7	1.8	44.4	20	39		
1498	5.5	314.6	1.9	313.3	45.6	-1.8	44.2	21	27	1	2.2	44.6	1.8	46.1	45.7	1.8	44.3	21	47		
732	3.2	313.6	1.7	312.0	45.7	-1.8	44.4	21	54	19	4.5	44.2	1.8	45.6	45.7	1.8	44.3	22	18		
1523	4.7	313.1	1.7	311.6	45.7	-1.8	44.4	22	25	20	3.5	47.6	1.9	42.9	45.7	1.7	44.3	22	24		
1534	4.1	317.7	1.9	316.4	45.7	-1.7	44.2	22	44	45	4.7	47.8	1.7	49.3	45.7	1.9	44.4	22	52		
785	5.2	313.7	1.7	312.2	45.6	-1.8	44.3	23	17	43	4.7	42.8	1.9	44.2	45.7	1.7	44.2	22	54		
797	3.4	317.3	1.9	315.9	45.8	-1.7	44.4	23	29	64	3.6	43.8	1.8	45.2	45.8	1.8	44.3	23	33		

SW. QUADRANT									SE. QUADRANT												
CATNO	MAG	AZIMUTH				Z. D			L. S. T		CATNO	MAG	AZIMUTH				Z. D			L. S. T	
		LAT -2	A	LAT 0	LAT -2	B	LAT 0	HRS	MIN	LAT -2			A	LAT 0	LAT -2	B	LAT 0	HRS	MIN		
1592	4.4	222.8	-1.8	221.4	44.7	-1.7	45.7	0	47	101	4.5	137.3	-1.8	138.7	44.2	1.7	45.7	0	32		
967	1.3	227.5	-1.7	226.1	44.3	-1.8	45.6	1	22	133	4.9	136.4	-1.8	137.7	44.3	1.7	45.7	1	23		
879	4.5	222.5	-1.8	221.2	44.3	-1.7	45.8	1	34	170	3.9	134.0	-1.7	135.4	44.2	1.8	45.7	2	12		
1618	5.3	223.2	-1.8	221.9	44.2	-1.7	45.7	1	57	240	3.1	133.0	-1.7	134.5	44.3	1.8	45.6	3	55		
1026	5.5	224.7	-1.8	222.8	44.3	-1.7	45.7	3	21	268	1.6	131.1	-1.6	132.6	44.3	1.9	45.6	4	30		
35	4.4	228.0	-1.7	226.5	44.3	-1.8	45.6	3	24	1180	3.8	137.2	-1.8	138.6	44.3	1.7	45.8	4	32		
1048	5.3	222.8	-1.8	221.5	44.2	-1.7	45.7	3	58	283	2.4	131.6	-1.6	133.1	44.4	1.8	45.7	4	56		
1055	4.7	228.1	-1.7	226.6	44.3	-1.8	45.6	4	30	1210	4.9	133.4	-1.7	134.8	44.3	1.8	45.7	5	33		
78	5.2	225.6	-1.7	224.2	44.2	-1.8	45.6	4	34	392	4.4	134.5	-1.7	135.9	44.3	1.8	45.8	8	4		
101	4.5	222.8	-1.8	221.4	44.3	-1.7	45.8	5	5	434	3.7	136.0	-1.8	137.3	44.2	1.7	45.7	9	13		
133	4.9	223.6	-1.8	222.3	44.3	-1.7	45.8	6	0	1342	5.4	135.3	-1.7	136.6	44.3	1.7	45.8	10	55		
170	3.9	226.1	-1.7	224.7	44.3	-1.8	45.7	6	58	532	5.0	131.8	-1.6	133.3	44.4	1.8	45.7	12	0		
240	3.1	227.0	-1.7	225.5	44.3	-1.8	45.6	8	44	1399	5.0	135.4	-1.8	136.8	44.3	1.7	45.7	12	53		
1180	3.8	222.8	-1.8	221.5	44.3	-1.7	45.8	9	6	646	4.4	132.7	-1.7	134.1	44.3	1.8	45.6	15	1		
268	1.6	228.9	-1.6	227.4	44.4	-1.8	45.7	9	26	679	3.1	133.6	-1.7	135.1	44.3	1.8	45.7	15	41		
283	2.4	228.3	-1.6	226.8	44.2	-1.9	45.6	9	50	687	2.8	132.6	-1.7	134.0	44.4	1.8	45.7	15	54		
1210	4.9	226.6	-1.7	225.2	44.3	-1.8	45.7	10	21	1550	4.7	137.0	-1.8	138.4	44.2	1.7	45.7	18	43		
392	4.4	225.4	-1.7	224.0	44.3	-1.8	45.7	12	48	801	4.8	136.8	-1.8	138.1	44.3	1.7	45.8	18	59		
434	3.7	224.0	-1.8	222.6	44.2	-1.7	45.7	13	51	1592	4.4	137.3	-1.8	138.6	44.2	1.7	45.7	20	14		
1342	5.4	224.6	-1.8	223.3	44.2	-1.7	45.7	15	36	867	1.3	132.4	-1.7	133.9	44.3	1.8	45.6	20	31		
532	5.0	228.2	-1.6	226.7	44.4	-1.8	45.7	16	54	879	4.5	137.6	-1.8	138.9	44.2	1.7	45.7	21	2		
1399	5.0	224.7	-1.8	223.3	44.3	-1.7	45.8	17	34	1618	5.3	136.7	-1.8	138.1	44.2	1.7	45.7	21	22		
646	4.4	227.3	-1.7	225.8	44.2	-1.8	45.6	19	51	35	4.4	131.9	-1.6	133.4	44.3	1.8	45.7	22	31		
679	3.1	226.4	-1.7	224.9	44.3	-1.8	45.7	20	28	1026	5.5	135.8	-1.8	137.2	44.3	1.7	45.7	22	42		
687	2.8	227.4	-1.7	225.9	44.3	-1.8	45.7	20	45	1048	5.3	137.1	-1.8	138.4	44.3	1.7	45.8	23	24		
1550	4.7	223.0	-1.8	221.6	44.2	-1.7	45.7	23	17	1055	4.7	131.9	-1.6	133.3	44.3	1.8	45.7	23	37		
801	4.8	223.1	-1.8	221.8	44.2	-1.7	45.7	23	34	78	5.2	134.3	-1.7	135.8	44.2	1.8	45.6	23	50		

NR. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT	A	LAT	2	LAT	2	HRS	MIN
1575	5.0	314.4	1.7	313.0	45.8	-1.8	44.4	0	14
1590	5.5	318.5	1.8	317.2	45.8	-1.7	44.3	0	46
857	3.1	314.5	1.7	313.0	45.8	-1.8	44.4	1	7
1613	5.5	318.3	1.8	316.9	45.7	-1.7	44.2	1	41
1	2.2	312.7	1.6	311.2	45.6	-1.9	44.3	2	35
20	3.5	315.6	1.7	314.1	45.7	-1.8	44.3	3	1
19	4.5	313.0	1.6	311.5	45.7	-1.9	44.4	3	5
43	4.7	314.2	1.7	312.8	45.8	-1.8	44.4	3	36
64	3.6	313.5	1.7	312.1	45.6	-1.8	44.2	4	18
1468	5.4	313.7	1.7	312.2	45.6	-1.8	44.3	4	53
144	2.9	317.4	1.8	316.0	45.7	-1.7	44.3	6	12
1151	4.9	318.1	1.8	316.7	45.7	-1.7	44.2	7	49
1168	4.5	313.4	1.6	312.0	45.8	-1.8	44.4	8	41
286	4.2	317.4	1.8	316.0	45.8	-1.7	44.3	9	47
287	2.0	317.6	1.8	316.2	45.7	-1.7	44.3	9	52
328	4.2	312.4	1.6	310.9	45.7	-1.9	44.4	11	14
1275	4.8	317.8	1.8	316.5	45.8	-1.7	44.3	12	56
427	5.4	315.7	1.7	314.3	45.7	-1.8	44.3	13	7
524	3.8	315.3	1.7	313.6	45.8	-1.8	44.4	16	55
1380	4.5	314.1	1.7	312.6	45.6	-1.8	44.3	16	59
576	4.2	316.7	1.7	315.3	45.8	-1.7	44.4	17	53
572	3.7	317.0	1.6	315.5	45.6	-1.8	44.3	17	54
1441	5.4	317.2	1.8	315.8	45.8	-1.7	44.4	19	12
634	3.9	316.7	1.7	314.6	45.6	-1.8	44.2	19	21
1456	5.4	318.5	1.9	317.2	45.9	-1.7	44.3	19	37
674	3.8	313.1	1.6	311.6	45.6	-1.8	44.3	20	24
681	3.8	312.3	1.6	310.8	45.6	-1.9	44.3	20	35
713	3.3	318.9	1.8	317.6	45.7	-1.7	44.2	21	14
1534	4.1	314.8	1.7	313.3	45.8	-1.8	44.4	22	53
797	3.4	314.5	1.7	313.1	45.9	-1.8	44.4	23	37

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT	A	LAT	2	LAT	2	HRS	MIN
1068	5.4	46.3	1.7	47.8	45.6	1.8	44.3	0	1
144	2.9	42.5	1.8	43.9	45.7	1.7	44.2	1	34
1151	4.9	41.9	1.8	43.2	45.7	1.7	44.2	3	14
1168	4.5	46.4	1.7	47.9	45.6	1.8	44.3	3	48
286	4.2	42.5	1.8	43.9	45.7	1.7	44.2	5	9
287	2.0	42.3	1.8	43.7	45.7	1.7	44.2	5	15
328	4.2	47.6	1.6	49.1	45.7	1.9	44.4	6	17
1275	4.8	42.2	1.8	43.6	45.8	1.7	44.3	8	19
407	5.4	44.4	1.7	45.8	45.8	1.8	44.3	8	22
534	3.8	45.0	1.7	46.4	45.8	1.8	44.4	12	7
1380	4.5	46.0	1.7	47.5	45.8	1.8	44.4	12	8
572	3.7	47.0	1.6	48.5	45.6	1.8	44.3	13	0
576	4.2	43.2	1.8	44.6	45.7	1.7	44.2	13	12
1441	5.4	42.7	1.8	44.1	45.7	1.7	44.2	14	33
674	3.9	44.0	1.7	45.4	45.6	1.8	44.2	14	38
1456	5.4	41.4	1.8	42.8	45.8	1.7	44.3	15	3
681	3.9	46.9	1.6	48.4	45.6	1.8	44.3	15	30
674	3.8	47.8	1.6	49.3	45.7	1.9	44.4	15	38
713	3.3	41.1	1.8	42.5	45.8	1.7	44.2	16	42
1534	4.1	45.1	1.7	46.5	45.6	1.8	44.2	18	5
797	3.4	45.4	1.7	46.8	45.6	1.8	44.2	18	48
1575	5.0	45.6	1.7	47.0	45.7	1.8	44.4	19	24
1590	5.5	41.5	1.8	42.9	45.8	1.7	44.3	20	12
857	3.1	45.6	1.7	47.0	45.8	1.8	44.4	20	17
1613	5.5	41.9	1.8	43.2	45.8	1.7	44.3	21	6
1	2.2	47.4	1.6	48.9	45.7	1.9	44.4	21	39
19	4.5	47.0	1.6	48.5	45.7	1.9	44.4	22	10
20	3.5	44.3	1.7	45.8	45.6	1.8	44.2	22	16
43	4.7	45.6	1.7	47.1	45.6	1.8	44.2	22	46
64	3.6	46.6	1.6	48.1	45.8	1.8	44.4	23	25

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT	A	LAT	2	LAT	2	HRS	MIN
828	5.4	228.0	-1.7	226.5	44.3	-1.9	45.7	0	37
954	4.2	229.3	-1.7	227.8	44.4	-1.9	45.7	1	6
867	1.3	224.7	-1.8	223.3	44.2	-1.7	45.6	1	14
896	4.6	227.4	-1.8	226.0	44.4	-1.8	45.8	2	11
35	4.4	225.1	-1.8	223.7	44.2	-1.7	45.6	3	16
1555	4.7	225.4	-1.8	224.0	44.4	-1.8	45.8	4	23
78	5.2	222.8	-1.9	221.4	44.3	-1.7	45.7	4	26
179	3.9	223.3	-1.9	221.9	44.3	-1.7	45.8	6	50
240	3.1	224.1	-1.9	222.7	44.2	-1.7	45.7	8	36
268	1.6	226.1	-1.8	224.6	44.2	-1.8	45.6	9	18
1183	3.7	229.0	-1.7	227.5	44.4	-1.8	45.7	9	25
283	2.4	225.6	-1.8	224.2	44.3	-1.8	45.8	9	43
1210	4.9	223.8	-1.9	222.4	44.3	-1.7	45.8	10	13
332	4.2	228.4	-1.7	226.9	44.3	-1.8	45.6	11	14
365	5.0	228.4	-1.7	226.9	44.4	-1.8	45.7	12	8
392	4.4	222.6	-1.9	221.2	44.3	-1.7	45.8	12	40
419	5.1	229.1	-1.7	227.6	44.3	-1.9	45.6	13	30
537	5.0	225.3	-1.9	223.9	44.3	-1.8	45.7	16	46
579	3.8	227.6	-1.8	226.2	44.3	-1.8	45.7	17	59
629	2.9	227.5	-1.7	226.1	44.4	-1.8	45.8	18	58
646	4.4	224.6	-1.9	223.2	44.4	-1.7	45.8	19	44
1464	4.7	228.0	-1.7	226.6	44.3	-1.8	45.6	20	10
679	3.1	223.5	-1.9	222.1	44.3	-1.7	45.7	20	20
687	2.8	224.5	-1.8	223.1	44.2	-1.7	45.7	20	37
1496	3.4	229.3	-1.7	226.8	44.3	-1.8	45.7	21	30
753	4.6	228.2	-1.7	226.8	44.4	-1.8	45.7	22	26

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT	A	LAT	2	LAT	2	HRS	MIN
179	3.9	136.8	-1.9	138.2	44.3	1.7	45.7	2	20
240	3.1	135.9	-1.9	137.3	44.2	1.7	45.7	4	3
1183	3.7	132.0	-1.7	133.5	44.3	1.8	45.7	4	37
268	1.6	133.8	-1.8	135.2	44.4	1.8	45.8	4	37
283	2.4	134.5	-1.8	135.9	44.3	1.8	45.7	5	4
1210	4.9	136.3	-1.9	137.6	44.3	1.7	45.7	5	41
332	4.2	131.6	-1.7	133.1	44.3	1.8	45.7	6	25
366	5.0	131.7	-1.7	133.2	44.3	1.8	45.6	7	19
392	4.4	137.5	-1.9	138.9	44.2	1.7	45.7	8	13
419	5.1	130.7	-1.7	132.2	44.4	1.8	45.7	8	38
532	5.0	134.7	-1.9	136.1	44.3	1.8	45.7	12	8
579	3.8	132.4	-1.8	133.9	44.2	1.8	45.6	12	13
620	2.9	132.6	-1.8	134.0	44.3	1.8	45.6	14	12
646	4.4	135.5	-1.9	136.9	44.2	1.7	45.7	15	9
1464	4.7	131.9	-1.7	133.3	44.4	1.8	45.7	15	22
679	3.1	136.5	-1.9	137.9	44.3	1.7	45.8	15	49
687	2.8	135.4	-1.8	136.8	44.3	1.7	45.8	16	2
1496	3.4	131.7	-1.7	133.1	44.4	1.8	45.7	16	41
753	4.6	131.8	-1.7	133.3	44.4	1.8	45.7	17	37
838	5.4	131.9	-1.7	133.4	44.4	1.8	45.7	19	49
854	4.2	130.8	-1.7	132.3	44.2	1.9	45.6	20	14
867	1.3	135.3	-1.8	136.7	44.2	1.7	45.7	20	39
896	4.6	132.6	-1.8	134.1	44.3	1.8	45.7	21	25
35	4.4	134.8	-1.8	136.2	44.3	1.8	45.7	22	39
1055	4.7	134.7	-1.8	136.1	44.2	1.8	45.6	23	45
78	5.2	137.2	-1.9	138.6	44.3	1.7	45.8	23	58

NW. QUADRANT										NE. QUADRANT													
CATNO	MAG	AZIMUTH				Z.D				L.S.T		CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 2	A	LAT 4	LAT 2	B	LAT 4	LAT 2	B	LAT 4	HRS			MIN	LAT 2	A	LAT 4	LAT 2	B	LAT 4	HRS	MIN	
835	4.4	316.8	1.7	315.5	45.7	-1.7	44.2	0	32		144	2.9	45.3	1.6	46.7	45.6	1.8	44.3	1	26			
1590	5.5	315.8	1.6	314.4	45.7	-1.8	44.2	0	54		181	2.9	43.1	1.7	44.4	45.7	1.7	44.2	2	33			
1613	5.5	315.4	1.6	314.0	45.8	-1.8	44.4	1	50		1151	4.9	44.8	1.6	46.2	45.8	1.8	44.4	3	5			
18	4.5	317.7	1.7	316.4	45.7	-1.7	44.2	2	57		261	3.6	41.7	1.7	43.1	45.8	1.7	44.3	4	31			
20	3.5	313.0	1.6	311.5	45.6	-1.8	44.2	3	8		286	4.2	45.3	1.6	46.7	45.6	1.8	44.2	5	1			
79	4.1	318.0	1.7	316.6	45.7	-1.7	44.2	4	37		287	2.0	45.2	1.6	46.6	45.8	1.8	44.4	5	6			
144	2.9	314.7	1.6	313.2	45.7	-1.8	44.3	6	20		296	5.3	42.6	1.7	44.0	45.8	1.7	44.3	5	24			
181	2.9	316.8	1.7	315.5	45.8	-1.7	44.3	7	19		1275	4.8	44.9	1.6	46.4	45.7	1.8	44.3	8	11			
1151	4.9	315.2	1.6	313.8	45.8	-1.8	44.4	7	58		407	5.4	47.0	1.6	48.4	45.6	1.8	44.3	8	15			
261	3.6	318.3	1.7	316.9	45.8	-1.7	44.3	9	12		412	3.9	41.1	1.7	42.5	45.8	1.7	44.3	8	33			
286	4.2	314.7	1.6	313.2	45.7	-1.8	44.3	9	55		425	3.7	42.9	1.7	44.3	45.6	1.7	44.2	8	55			
287	2.0	314.9	1.6	313.5	45.7	-1.8	44.3	10	0		1300	5.5	41.1	1.7	42.4	45.7	1.7	44.2	9	21			
296	5.3	317.5	1.7	316.1	45.7	-1.7	44.2	10	8		1322	5.4	42.8	1.7	44.2	45.8	1.7	44.3	10	10			
1275	4.8	315.1	1.6	313.7	45.7	-1.8	44.3	13	4		534	3.8	47.5	1.5	49.0	45.7	1.9	44.3	12	0			
425	3.9	318.9	1.7	317.6	45.7	-1.7	44.2	13	11		563	3.5	42.8	1.7	44.1	45.8	1.7	44.4	12	52			
407	5.4	313.0	1.5	311.5	45.7	-1.8	44.4	13	15		576	4.2	45.9	1.6	47.4	45.7	1.8	44.3	13	4			
425	3.7	317.0	1.7	315.6	45.7	-1.7	44.2	13	40		1441	5.4	45.4	1.6	46.9	45.7	1.8	44.3	14	25			
1300	5.5	318.9	1.7	317.6	45.7	-1.7	44.2	13	59		634	3.9	46.7	1.6	48.2	45.7	1.8	44.3	14	30			
1322	5.4	317.3	1.7	315.9	45.7	-1.7	44.3	14	55		1446	5.3	42.4	1.7	43.8	45.8	1.7	44.3	14	39			
534	3.8	312.5	1.5	311.0	45.7	-1.9	44.3	17	2		1456	5.4	44.2	1.6	45.6	45.7	1.8	44.3	14	55			
563	3.5	317.3	1.7	315.9	45.7	-1.7	44.3	17	37		705	3.8	42.8	1.7	44.1	45.7	1.7	44.3	16	27			
576	4.2	314.1	1.6	312.6	45.6	-1.8	44.2	18	0		713	3.3	43.9	1.7	45.3	45.6	1.8	44.2	16	34			
1441	5.4	314.5	1.6	313.0	45.8	-1.8	44.4	19	20		1510	4.9	41.0	1.7	42.3	45.8	1.7	44.3	17	12			
1446	5.3	317.7	1.7	316.4	45.7	-1.7	44.2	19	22		1534	4.1	47.8	1.5	49.3	45.7	1.9	44.4	17	57			
634	3.9	313.3	1.6	311.8	45.6	-1.8	44.3	19	29		780	2.6	41.8	1.7	43.2	45.7	1.7	44.2	18	25			
1456	5.4	315.8	1.6	314.4	45.7	-1.8	44.3	19	45		835	4.4	43.2	1.7	44.6	45.7	1.7	44.3	19	46			
705	3.8	317.2	1.7	315.8	45.8	-1.7	44.3	21	12		1590	5.5	44.2	1.6	45.6	45.7	1.8	44.3	20	4			
713	3.3	316.0	1.6	314.6	45.8	-1.8	44.3	21	23		1613	5.5	44.6	1.6	46.0	45.7	1.8	44.3	20	58			
1510	4.9	319.0	1.7	317.7	45.8	-1.7	44.3	21	50		20	3.5	47.1	1.5	48.6	45.7	1.8	44.3	22	8			
1534	4.1	312.2	1.5	310.7	45.7	-1.9	44.3	23	0		18	4.5	42.4	1.7	43.7	45.8	1.7	44.3	22	14			
780	2.6	318.2	1.7	316.8	45.8	-1.7	44.3	23	6		79	4.1	42.1	1.7	43.4	45.8	1.7	44.3	23	55			

SW. QUADRANT										SE. QUADRANT													
CATNO	MAG	AZIMUTH				Z.D				L.S.T		CATNO	MAG	AZIMUTH				Z.D				L.S.T	
		LAT 2	A	LAT 4	LAT 2	B	LAT 4	LAT 2	B	LAT 4	HRS			MIN	LAT 2	A	LAT 4	LAT 2	B	LAT 4	HRS	MIN	
838	5.4	225.1	-1.9	223.7	44.2	-1.7	45.7	0	29		1183	3.7	135.0	-1.9	136.4	44.3	1.7	45.7	4	45			
854	4.2	226.4	-1.9	225.0	44.3	-1.8	45.7	7	58		268	1.6	136.9	-2.0	138.3	44.2	1.7	45.7	4	46			
896	4.6	224.5	-1.9	223.1	44.3	-1.7	45.8	2	3		273	2.0	132.1	-1.8	133.6	44.4	1.8	45.8	4	46			
1055	4.7	222.3	-2.0	221.0	44.2	-1.7	45.7	4	14		283	2.4	137.4	-2.0	138.7	44.3	1.7	45.8	5	12			
268	1.6	223.1	-2.0	221.8	44.3	-1.7	45.7	9	10		332	4.2	134.5	-1.9	135.9	44.2	1.8	45.7	6	33			
1183	3.7	225.1	-1.9	223.7	44.3	-1.7	45.7	9	17		1243	4.9	131.4	-1.8	132.8	44.3	1.9	45.7	6	58			
273	2.0	227.9	-1.8	226.4	44.4	-1.8	45.7	9	29		366	5.0	134.4	-1.9	135.8	44.4	1.8	45.8	7	26			
283	2.4	222.5	-2.0	221.2	44.2	-1.7	45.7	9	34		419	5.1	133.7	-1.9	135.1	44.3	1.8	45.7	8	46			
332	4.2	225.6	-1.9	224.2	44.4	-1.8	45.8	11	7		1305	5.5	132.6	-1.8	134.0	44.4	1.8	45.8	9	27			
1243	4.9	228.6	-1.8	227.1	44.3	-1.9	45.6	11	43		519	3.5	137.6	-1.8	134.1	44.3	1.8	45.7	11	45			
366	5.0	225.4	-1.9	224.0	44.3	-1.8	45.7	12	0		532	5.0	137.8	-2.0	139.1	44.2	1.7	45.7	12	17			
419	5.1	226.4	-1.9	224.9	44.3	-1.8	45.7	13	23		1385	5.4	131.5	-1.8	133.0	44.4	1.8	45.7	12	24			
1305	5.5	227.3	-1.8	225.9	44.3	-1.8	45.7	14	8		579	3.8	135.2	-1.9	136.6	44.4	1.7	45.8	13	20			
519	3.5	227.5	-1.8	226.0	44.4	-1.8	45.7	16	26		592	3.0	131.7	-1.8	133.2	44.2	1.8	45.6	13	36			
532	5.0	222.2	-2.0	220.9	44.2	-1.7	45.7	16	37		607	3.1	131.7	-1.8	132.2	44.4	1.9	45.7	13	56			
1385	5.4	228.5	-1.8	227.0	44.4	-1.8	45.7	17	9		616	1.2	132.2	-1.8	133.7	44.3	1.8	45.7	14	7			
579	3.8	224.7	-1.9	223.3	44.2	-1.7	45.7	17	51		620	2.9	135.5	-1.9	136.9	44.2	1.7	45.7	14	20			
592	3.0	228.4	-1.8	226.9	44.4	-1.8	45.7	18	20		1464	4.7	134.8	-1.9	136.2	44.3	1.7	45.7	15	30			
607	3.1	229.3	-1.8	227.8	44.4	-1.9	45.7	18	44		1487	3.3	133.3	-1.9	134.7	44.4	1.8	45.8	16	25			
616	1.2	227.7	-1.8	226.2	44.3	-1.8	45.6	18	49		706	2.1	132.2	-1.8	133.6	44.3	1.8	45.6	16	33			
620	2.9	224.6	-1.9	223.2	44.3	-1.7	45.8	18	50		1496	3.4	134.6	-1.9	136.0	44.3	1.8	45.7	16	49			
1464	4.7	225.3	-1.9	223.9	44.4	-1.8	45.8	20	3		753	4.6	134.7	-1.9	136.1	44.3	1.8	45.7	17	45			
1487	3.3	226.6	-1.9	225.1	44.2	-1.8	45.6	21	3		1546	4.2	133.4	-1.9	134.8	44.2	1.8	45.6	18	32			
706	2.1	227.8	-1.8	226.3	44.3	-1.8	45.6	21	15		838	5.4	134.9	-1.9	136.3	44.3	1.7	45.7	19	57			
1496	3.4	225.3	-1.9	223.9	44.2	-1.8	45.6	21	22		854	4.2	133.6	-1.9	135.0	44.3	1.8	45.7	20	21			
753	4.6	225.3	-1.9	223.9	44.3	-1.8	45.7	22	18		896	4.6	135.5	-1.9	136.9	44.3	1.7	45.7	21	33			
1546	4.2	226.7	-1.9	225.3	44.4	-1.8	45.7	23	10		1055	4.7	137.7	-2.0	139.0	44.3	1.7	45.8	23	53			

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D.			L. S. T.	
		LAT 4	A LAT	B LAT	4	6	8	HRS	MIN
835	4.4	314.2	1.5	312.7	45.6	-1.8	44.3	9	49
1590	5.5	313.1	1.5	311.7	45.7	-1.8	44.3	1	2
1613	5.5	312.0	1.5	311.4	45.6	-1.8	44.3	1	57
18	4.5	314.9	1.5	313.5	45.8	-1.8	44.4	3	6
42	2.4	318.2	1.6	316.9	45.7	-1.7	44.2	3	32
1047	5.5	317.5	1.6	316.1	45.8	-1.7	44.3	4	6
75	3.1	317.1	1.6	315.8	45.7	-1.7	44.3	4	38
79	4.1	315.3	1.5	313.9	45.6	-1.8	44.2	4	45
1070	5.4	319.0	1.6	317.7	45.8	-1.7	44.3	4	53
1082	5.0	317.5	1.6	316.1	45.7	-1.7	44.3	5	23
148	4.1	318.5	1.6	317.1	45.8	-1.7	44.3	6	21
144	2.9	312.2	1.4	310.7	45.6	-1.9	44.3	6	27
158	5.1	316.5	1.6	315.1	45.7	-1.7	44.3	6	46
181	2.9	314.2	1.5	312.7	45.7	-1.8	44.4	7	27
1151	4.9	312.7	1.4	311.2	45.7	-1.9	44.3	8	5
261	3.6	315.6	1.5	314.2	45.7	-1.8	44.3	9	29
286	4.2	312.2	1.4	310.7	45.6	-1.9	44.3	10	2
287	2.0	312.2	1.4	310.7	45.7	-1.9	44.4	10	8
296	5.3	314.8	1.5	313.4	45.6	-1.8	44.2	10	16
352	3.3	316.4	1.6	315.0	45.7	-1.7	44.3	11	47
1275	4.8	312.6	1.4	311.1	45.6	-1.9	44.2	13	11
412	3.9	316.1	1.6	314.7	45.8	-1.7	44.3	13	29
425	3.7	314.4	1.5	312.9	45.6	-1.8	44.3	13	48
1300	5.5	316.1	1.6	314.7	45.8	-1.7	44.4	14	8
1322	5.4	314.6	1.5	313.2	45.7	-1.8	44.3	15	3
1337	5.1	318.9	1.6	317.5	45.7	-1.7	44.2	15	27
1370	4.8	318.2	1.6	316.9	45.8	-1.7	44.3	16	41
563	3.5	314.6	1.5	313.2	45.7	-1.8	44.3	17	45
1044	4.8	318.4	1.6	317.1	45.8	-1.7	44.3	18	18
1441	5.4	312.0	1.4	310.5	45.7	-1.9	44.3	19	27
1446	5.3	314.9	1.5	313.5	45.8	-1.8	44.4	19	31
1456	5.4	313.1	1.5	311.7	45.7	-1.9	44.4	19	53
1477	4.3	319.1	1.6	317.8	45.7	-1.7	44.2	20	41
705	3.8	314.5	1.5	313.1	45.7	-1.8	44.3	21	20
719	5.1	319.2	1.7	317.8	45.7	-1.6	44.2	21	28
713	3.3	313.4	1.5	311.9	45.8	-1.8	44.4	21	31
1519	4.9	316.4	1.6	315.0	45.7	-1.7	44.2	21	58
1521	4.0	317.3	1.6	315.9	45.7	-1.7	44.3	22	21
780	2.6	315.5	1.5	314.1	45.7	-1.8	44.3	23	14
1559	4.4	317.0	1.6	315.6	45.7	-1.7	44.3	23	42

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D.			L. S. T.	
		LAT 4	A LAT	B LAT	4	6	8	HRS	MIN
1070	5.4	40.9	1.6	42.2	45.7	1.7	44.2	0	9
1082	5.0	42.5	1.6	43.9	45.7	1.7	44.2	0	33
144	2.9	47.9	1.4	49.4	45.7	1.9	44.4	1	18
148	4.1	41.4	1.6	42.8	45.7	1.7	44.2	1	35
158	5.1	43.5	1.6	44.9	45.7	1.7	44.3	1	52
181	2.9	45.7	1.5	47.2	45.6	1.8	44.2	2	25
1151	4.9	47.3	1.4	48.8	45.6	1.9	44.3	2	58
261	3.6	44.4	1.5	45.8	45.7	1.8	44.3	4	23
286	4.2	47.9	1.4	45.4	45.7	1.9	44.4	4	53
287	2.0	47.7	1.4	49.2	45.7	1.9	44.4	4	59
296	5.3	45.3	1.5	46.7	45.7	1.8	44.3	5	16
352	3.3	43.5	1.6	44.9	45.7	1.7	44.2	6	53
1275	4.8	47.4	1.4	48.9	45.6	1.9	44.3	8	4
412	3.9	43.8	1.6	45.2	45.7	1.7	44.2	8	25
425	3.7	45.6	1.5	47.0	45.6	1.8	44.2	8	47
1300	5.5	43.9	1.6	45.3	45.8	1.7	44.4	9	12
1322	5.4	45.5	1.5	46.9	45.7	1.8	44.4	10	2
1337	5.1	41.2	1.6	42.6	45.8	1.7	44.3	10	42
1370	4.8	41.6	1.6	43.0	45.7	1.7	44.2	11	54
563	3.5	45.4	1.5	46.9	45.8	1.8	44.4	12	44
1414	4.8	41.6	1.6	42.9	45.8	1.7	44.3	13	27
1441	5.4	48.1	1.4	49.6	45.7	1.9	44.4	14	17
1446	5.3	45.7	1.5	46.5	45.7	1.8	44.3	14	31
1456	5.4	46.8	1.5	48.3	45.7	1.8	44.3	14	47
1477	4.3	41.0	1.6	42.3	45.8	1.7	44.3	15	57
705	3.8	45.4	1.5	46.9	45.7	1.8	44.3	16	19
713	3.3	46.5	1.5	48.0	45.7	1.8	44.3	16	26
719	5.1	47.9	1.6	42.2	45.7	1.7	44.2	16	45
1519	4.9	43.6	1.6	45.0	45.7	1.7	44.2	17	4
1521	4.0	42.7	1.6	44.1	45.8	1.7	44.3	17	30
780	2.6	44.5	1.5	45.9	45.6	1.8	44.2	18	17
1559	4.4	43.0	1.6	44.4	45.7	1.7	44.3	18	51
835	4.4	43.0	1.6	44.4	45.7	1.7	44.3	19	38
854	5.5	46.9	1.5	48.4	45.7	1.8	44.4	19	56
1613	5.5	47.2	1.4	48.7	45.8	1.8	44.4	20	50
18	4.5	45.9	1.5	46.5	45.7	1.8	44.3	22	6
42	2.4	41.8	1.6	43.2	45.7	1.7	44.2	22	45
1047	5.5	42.5	1.6	43.8	45.7	1.7	44.3	23	16
75	3.1	42.8	1.6	44.2	45.7	1.7	44.2	23	43
79	4.1	44.7	1.5	46.2	45.7	1.8	44.3	23	47

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D.			L. S. T.	
		LAT 4	A LAT	B LAT	4	6	8	HRS	MIN
854	4.2	223.4	-2.0	222.0	44.3	-1.7	45.8	0	50
14	5.2	229.3	-1.9	227.8	44.3	-1.9	45.7	2	51
61	5.4	227.0	-1.9	225.5	44.3	-1.8	45.6	4	2
83	5.4	229.2	-1.9	227.7	44.3	-1.9	45.6	4	43
273	2.0	224.9	-2.0	223.5	44.3	-1.7	45.7	9	21
1204	3.5	227.6	-1.9	226.2	44.3	-1.8	45.7	10	7
378	2.9	228.6	-1.9	227.1	44.3	-1.8	45.6	10	27
332	4.2	222.4	-2.1	221.1	44.2	-1.7	45.7	11	58
1243	4.9	225.9	-2.0	224.4	44.4	-1.8	45.8	11	36
366	5.0	222.4	-2.1	221.1	44.3	-1.7	45.8	11	52
419	5.1	223.4	-2.0	222.0	44.3	-1.7	45.8	13	15
1305	5.5	224.3	-2.0	222.9	44.3	-1.7	45.7	14	0
515	5.2	227.6	-1.9	226.1	44.3	-1.8	45.7	16	16
519	3.5	224.5	-2.0	223.1	44.3	-1.7	45.8	16	18
1276	5.4	227.9	-1.9	226.4	44.4	-1.8	45.7	16	43
1385	5.4	225.5	-2.0	224.0	44.3	-1.8	45.7	17	1
556	3.4	226.9	-1.9	225.4	44.3	-1.8	45.6	17	29
592	3.0	225.4	-2.0	224.0	44.3	-1.8	45.7	18	12
607	3.1	226.3	-2.0	224.9	44.3	-1.8	45.7	18	36
616	1.2	224.7	-2.0	223.3	44.2	-1.7	45.7	18	41
644	3.4	227.4	-1.9	225.9	44.3	-1.8	45.7	19	39
1457	4.3	228.8	-1.9	227.3	44.3	-1.9	45.7	19	46
692	2.9	226.5	-2.0	225.0	44.2	-1.8	45.6	20	43
1487	3.3	223.6	-2.0	222.2	44.2	-1.7	45.7	20	55
706	2.1	224.8	-2.0	223.4	44.2	-1.7	45.6	21	7
736	4.7	227.5	-1.9	226.0	44.4	-1.8	45.7	21	54
1546	4.2	221.7	-2.0	220.4	44.3	-1.7	45.8	23	2
779	4.3	226.7	-1.9	225.3	44.3	-1.8	45.7	23	2
791	4.6	227.2	-1.9	225.8	44.4	-1.8	45.7	23	24

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D.			L. S. T.	
		LAT 4	A LAT	B LAT	4	6	8	HRS	MIN
83	5.4	130.7	-1.9	132.2	44.4	1.9	45.7	0	0
273	2.0	135.1	-2.0	136.5	44.3	1.7	45.8	4	54
1204	3.5	132.4	-1.9	133.9	44.3	1.8	45.6	5	30
308	2.9	131.3	-1.9	132.8	44.4	1.8	45.7	5	46
332	4.2	137.5	-2.1	138.8	44.3	1.7	45.8	6	41
1243	4.9	134.4	-2.0	135.8	44.2	1.8	45.6	7	6
366	5.0	137.6	-2.1	139.0	44.3	1.7	45.8	7	35
419	5.1	136.7	-2.0	138.0	44.3	1.7	45.8	8	54
1305	5.5	135.6	-2.0	137.0	44.4	1.7	45.8	9	35
515	5.2	132.5	-1.9	133.9	44.3	1.8	45.7	11	59
519	3.5	135.6	-2.0	137.0	44.2	1.7	45.7	11	53
1376	5.4	132.2	-1.9	133.7	44.3	1.8	45.6	12	5
1385	5.4	134.5	-2.0	135.9	44.3	1.8	45.7	12	32
556	3.4	133.1	-1.9	134.6	44.2	1.8	45.6	12	46
592	3.0	134.6	-2.0	136.0	44.3	1.8	45.8	13	43
607	3.1	133.7	-2.0	135.1	44.3	1.8	45.7	14	4
616	1.2	135.2	-2.0	136.6	44.3	1.7	45.7	14	15
644	3.4	132.7	-1.9	134.2	44.3	1.8	45.6	15	3
1457	4.3	131.1	-1.9	132.6	44.4	1.9	45.7	15	4
692	2.9	133.4	-2.0	134.9	44.3	1.8	45.7	16	10
706	2.1	135.2	-2.0	136.6	44.2	1.7			

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 6	A LAT 8	LAT 6	B LAT 8	HRS	MIN		
1005	4.5	317.4	1.5	316.0	45.7	-1.7	44.3	2	46
18	4.5	312.5	1.3	311.0	45.7	-1.9	44.3	3	13
42	2.4	315.5	1.4	314.1	45.8	-1.8	44.3	3	41
1047	5.5	314.9	1.4	313.5	45.7	-1.8	44.3	4	14
75	3.1	314.6	1.4	313.1	45.7	-1.8	44.3	4	42
79	4.1	312.7	1.4	311.2	45.7	-1.8	44.3	4	53
1070	5.4	316.5	1.5	315.1	45.6	-1.7	44.2	5	1
1082	5.0	314.9	1.4	313.4	45.7	-1.8	44.3	5	31
148	4.1	315.9	1.5	314.5	45.7	-1.7	44.3	6	29
158	5.1	313.9	1.4	312.5	45.7	-1.8	44.3	6	54
1133	5.1	318.7	1.5	317.3	45.8	-1.7	44.3	7	15
261	3.6	313.0	1.4	311.6	45.7	-1.8	44.4	9	28
1199	5.5	318.9	1.5	317.6	45.7	-1.7	44.2	10	11
296	5.3	312.2	1.3	310.7	45.7	-1.9	44.4	10	24
352	3.3	313.8	1.4	312.4	45.7	-1.8	44.4	11	55
360	4.6	317.1	1.5	315.8	45.7	-1.7	44.2	12	2
390	4.4	317.6	1.5	316.3	45.7	-1.7	44.3	12	55
412	3.9	313.6	1.4	312.1	45.8	-1.8	44.4	13	28
1300	5.5	313.7	1.4	312.2	45.6	-1.8	44.2	14	15
1322	5.4	312.2	1.3	310.7	45.6	-1.9	44.3	15	10
1337	5.1	316.1	1.5	314.7	45.7	-1.7	44.3	15	36
502	5.0	318.4	1.5	317.0	45.8	-1.7	44.3	16	1
1370	4.8	315.7	1.4	314.3	45.7	-1.8	44.3	16	49
568	4.5	318.7	1.5	317.3	45.8	-1.7	44.3	17	50
563	3.5	312.2	1.3	310.7	45.6	-1.9	44.3	17	52
1414	4.8	315.9	1.5	314.4	45.7	-1.7	44.3	18	22
1423	4.9	317.2	1.5	315.9	45.7	-1.7	44.2	18	37
1446	5.3	312.5	1.3	311.0	45.7	-1.9	44.3	19	38
643	3.4	317.6	1.5	316.2	45.8	-1.7	44.4	19	43
672	4.0	318.4	1.5	317.1	45.7	-1.7	44.2	20	22
1477	4.3	316.4	1.5	315.0	45.8	-1.7	44.3	20	50
705	3.8	312.1	1.3	310.6	45.6	-1.9	44.3	21	27
719	5.1	316.4	1.5	315.0	45.7	-1.7	44.3	21	37
1510	4.9	313.8	1.4	312.3	45.7	-1.8	44.3	22	6
740	5.0	318.5	1.5	317.1	45.7	-1.7	44.2	22	10
1521	4.0	314.7	1.4	313.3	45.7	-1.8	44.3	22	29
1525	4.8	317.6	1.5	316.2	45.7	-1.7	44.3	22	37
780	2.6	312.9	1.4	311.4	45.7	-1.8	44.4	23	22
1559	4.4	314.4	1.4	313.0	45.7	-1.8	44.3	23	51

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 6	A LAT 8	LAT 6	B LAT 8	HRS	MIN		
1070	5.4	43.6	1.5	45.0	45.8	1.7	44.3	0	0
1082	5.0	45.1	1.4	46.5	45.6	1.8	44.2	0	25
148	4.1	44.1	1.5	45.6	45.7	1.7	44.3	1	26
158	5.1	46.1	1.4	47.6	45.7	1.8	44.4	1	44
1133	5.1	41.4	1.5	42.7	45.8	1.7	44.3	2	22
261	3.6	46.9	1.4	48.4	45.7	1.8	44.4	4	15
296	5.3	47.7	1.3	49.2	45.6	1.9	44.3	5	9
1199	5.5	41.0	1.6	42.4	45.7	1.7	44.2	5	20
352	3.3	46.1	1.4	47.6	45.7	1.8	44.3	6	45
360	4.6	42.9	1.5	44.2	45.7	1.7	44.2	7	4
390	4.4	42.4	1.5	43.8	45.8	1.7	44.4	7	58
412	3.9	46.4	1.4	47.8	45.6	1.8	44.3	8	17
1300	5.5	46.3	1.4	47.8	45.6	1.8	44.2	9	5
1322	5.4	47.9	1.3	49.4	45.6	1.9	44.3	9	55
1337	5.1	43.8	1.5	45.2	45.7	1.7	44.3	10	34
502	5.0	41.6	1.5	42.9	45.8	1.7	44.3	11	7
1370	4.8	44.4	1.4	45.8	45.8	1.8	44.3	11	45
563	3.5	47.9	1.3	49.4	45.7	1.9	44.3	12	37
568	4.5	41.2	1.5	42.6	45.7	1.7	44.2	12	58
1414	4.8	44.1	1.5	45.5	45.7	1.7	44.3	13	19
1423	4.9	42.8	1.5	44.2	45.8	1.7	44.3	13	39
1446	5.3	47.5	1.4	49.0	45.6	1.9	44.3	14	24
643	3.4	42.4	1.5	43.7	45.8	1.7	44.3	14	46
672	4.0	41.6	1.5	42.9	45.7	1.7	44.2	15	29
1477	4.3	43.5	1.5	44.9	45.6	1.7	44.2	15	49
705	3.8	48.0	1.3	49.5	45.8	1.9	44.4	16	11
719	5.1	43.6	1.5	45.0	45.7	1.7	44.3	16	36
1510	4.9	46.2	1.4	47.7	45.7	1.8	44.3	16	56
740	5.0	41.5	1.5	42.9	45.7	1.7	44.2	17	17
1521	4.0	45.3	1.4	46.7	45.7	1.8	44.3	17	22
1525	4.8	42.5	1.5	43.8	45.8	1.7	44.3	17	40
780	2.6	47.1	1.4	48.5	45.7	1.8	44.3	18	9
1559	4.4	45.6	1.4	47.1	45.7	1.8	44.3	18	43
1005	4.5	42.5	1.5	43.9	45.7	1.7	44.2	21	49
18	4.5	47.5	1.4	49.0	45.6	1.9	44.3	21	59
42	2.4	44.5	1.4	46.0	45.8	1.8	44.4	22	36
1047	5.5	45.0	1.4	46.5	45.7	1.8	44.3	23	8
75	3.1	45.5	1.4	47.0	45.8	1.8	44.4	23	34
79	4.1	47.3	1.3	48.8	45.7	1.8	44.4	23	39

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 6	A LAT 8	LAT 6	B LAT 8	HRS	MIN		
14	5.2	226.2	-2.0	224.8	44.2	-1.8	45.6	2	43
61	5.4	223.9	-2.1	222.5	44.2	-1.7	45.7	3	54
83	5.4	226.3	-2.0	224.9	44.4	-1.8	45.8	4	36
1785	4.2	226.6	-2.0	225.2	44.3	-1.8	45.6	5	16
140	4.3	227.4	-2.0	225.9	44.3	-1.8	45.7	6	2
186	3.3	229.1	-2.0	227.6	44.4	-1.9	45.7	7	24
217	3.8	229.1	-2.0	227.5	44.4	-1.9	45.7	8	3
1165	5.5	228.9	-2.0	227.4	44.3	-1.8	45.6	8	27
249	4.5	228.1	-2.0	226.6	44.4	-1.9	45.8	8	52
270	3.1	226.5	-2.0	225.1	44.4	-1.8	45.8	9	17
288	4.5	229.3	-1.9	227.8	44.4	-1.9	45.7	9	53
1204	3.5	224.6	-2.1	223.2	44.2	-1.7	45.7	9	59
308	2.9	225.7	-2.1	224.3	44.4	-1.8	45.8	11	20
1243	4.9	222.5	-2.2	221.2	44.2	-1.7	45.7	11	27
399	5.3	226.8	-2.0	225.3	44.3	-1.8	45.7	12	48
421	4.5	228.5	-2.0	227.0	44.4	-1.8	45.7	13	29
453	3.2	228.8	-2.0	227.4	44.3	-1.8	45.7	14	28
471	2.8	227.5	-2.0	226.1	44.4	-1.8	45.8	14	50
495	3.3	227.9	-2.0	226.4	44.4	-1.8	45.7	15	35
515	5.2	224.5	-2.1	223.1	44.3	-1.7	45.7	16	8
1376	5.4	224.8	-2.1	223.4	44.3	-1.7	45.8	16	35
556	3.4	223.8	-2.1	222.5	44.3	-1.7	45.7	17	12
594	2.5	228.8	-2.0	227.3	44.4	-1.8	45.7	18	18
607	3.1	223.2	-2.1	221.9	44.3	-1.7	45.8	18	28
644	3.4	224.3	-2.1	222.9	44.3	-1.7	45.7	19	31
1457	4.3	225.8	-2.1	224.3	44.2	-1.8	45.7	19	38
692	2.9	223.4	-2.1	222.0	44.3	-1.7	45.7	20	35
736	4.7	224.4	-2.1	223.0	44.3	-1.7	45.8	21	46
779	4.3	223.7	-2.1	222.3	44.3	-1.7	45.8	22	54
791	4.6	224.1	-2.1	222.8	44.3	-1.7	45.8	23	16
806	3.9	228.8	-2.0	227.3	44.3	-1.8	45.6	23	44

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 6	A LAT 8	LAT 6	B LAT 8	HRS	MIN		
83	5.4	133.8	-2.0	135.2	44.2	1.8	45.6	0	8
1085	4.2	133.4	-2.0	134.8	44.3	1.8	45.6	0	47
140	4.3	132.7	-2.0	134.1	44.3	1.8	45.7	1	30
196	3.3	130.9	-1.9	132.4	44.4	1.9	45.7	2	45
217	3.8	131.2	-2.0	132.6	44.3	1.8	45.6	3	25
1165	5.5	131.0	-2.0	132.5	44.3	1.9	45.7	3	49
249	4.5	132.0	-2.0	133.5	44.3	1.8	45.7	4	17
270	3.1	133.6	-2.0	135.0	44.3	1.8	45.7	4	48
288	4.5	130.8	-2.0	132.3	44.3	1.9	45.6	5	14
1204	3.5	125.5	-2.1	136.9	44.2	1.7	45.7	5	38
308	2.9	134.4	-2.1	135.8	44.3	1.8	45.7	5	54
1243	4.9	137.4	-2.2	138.8	44.3	1.7	45.8	7	14
399	5.3	133.2	-2.0	134.7	44.3	1.8	45.7	8	18
421	4.5	131.6	-2.0	133.1	44.2	1.8	45.6	8	53
453	3.2	131.1	-2.0	132.6	44.4	1.8	45.7	9	50
471	2.9	132.6	-2.0	134.0	44.3	1.8	45.7	10	17
495	3.3	132.2	-2.0	133.7	44.3	1.8	45.7	11	1
515	5.2	135.5	-2.1	136.9	44.3	1.7	45.7	11	47
1376	5.4	135.3	-2.1	136.7	44.2	1.7	45.6	12	13
556	3.4	136.2	-2.1	137.6	44.2	1.7	45.7	12	54
594	2.5	131.2	-2.0	132.7	44.4	1.8	45.8	13	40

NW. QUADRANT

CATNO	MAG	AZIMUTH					Z. D		L. S. T			
		LAT	B	A	LAT	B	LAT	B	LAT	B	HRS	MIN
852	4.9	318.5	1.4	317.1	45.8	-1.7	44.3	1	9			
1009	5.2	316.7	1.4	315.3	45.8	-1.7	44.3	2	54			
1005	4.5	314.9	1.3	313.5	45.7	-1.8	44.3	2	54			
33	3.9	317.6	1.4	316.2	45.8	-1.7	44.3	3	28			
42	2.4	313.1	1.3	311.6	45.6	-1.8	44.3	3	48			
1247	5.5	312.4	1.2	310.9	45.7	-1.8	44.4	4	22			
75	3.1	312.0	1.2	310.5	45.7	-1.9	44.4	4	50			
1070	5.4	314.0	1.3	312.5	45.6	-1.8	44.3	5	9			
109	3.7	318.2	1.4	316.9	45.8	-1.7	44.3	5	35			
1082	5.0	312.4	1.2	310.9	45.7	-1.8	44.4	5	39			
148	4.1	313.4	1.3	311.9	45.7	-1.8	44.3	6	37			
1133	5.1	316.2	1.4	314.8	45.7	-1.7	44.2	7	23			
192	4.8	317.7	1.4	316.4	45.8	-1.7	44.3	7	44			
221	4.2	318.8	1.4	317.5	45.8	-1.6	44.3	8	20			
274	5.1	319.2	1.5	317.9	45.7	-1.6	44.2	9	39			
1199	5.5	316.3	1.4	314.9	45.8	-1.7	44.3	10	20			
1237	4.7	317.9	1.4	316.5	45.9	-1.7	44.3	11	37			
360	4.6	314.6	1.3	313.2	45.6	-1.8	44.2	12	10			
399	4.4	315.1	1.3	313.7	45.7	-1.8	44.3	13	3			
1293	4.8	317.5	1.4	316.2	45.7	-1.7	44.2	13	53			
461	5.2	318.9	1.4	317.4	45.8	-1.6	44.3	14	55			
485	2.9	317.7	1.4	316.3	45.7	-1.7	44.3	15	27			
1337	5.1	313.6	1.3	312.2	45.7	-1.8	44.4	15	44			
502	5.0	315.9	1.4	314.5	45.7	-1.7	44.3	16	9			
1370	4.8	313.2	1.3	311.7	45.7	-1.8	44.4	16	57			
535	3.0	317.7	1.4	316.3	45.7	-1.7	44.2	17	3			
568	4.5	316.0	1.4	314.6	45.8	-1.7	44.4	17	59			
1414	4.9	313.3	1.3	311.9	45.7	-1.8	44.4	18	30			
1423	4.9	314.7	1.3	313.3	45.6	-1.8	44.2	18	45			
626	3.6	318.6	1.4	317.3	45.7	-1.7	44.2	19	12			
643	3.4	315.1	1.3	313.7	45.7	-1.8	44.3	19	51			
672	4.0	315.8	1.4	314.4	45.7	-1.7	44.3	20	31			
1477	4.3	313.9	1.3	312.4	45.8	-1.8	44.4	20	58			
699	4.1	318.3	1.4	316.9	45.7	-1.7	44.2	21	7			
719	5.1	313.9	1.3	312.5	45.7	-1.8	44.3	21	45			
724	4.5	317.1	1.4	315.7	45.8	-1.7	44.4	21	49			
740	5.0	315.8	1.4	314.4	45.8	-1.7	44.3	22	10			
1521	4.0	312.2	1.2	310.7	45.8	-1.8	44.4	22	37			
1525	4.8	315.1	1.3	313.7	45.7	-1.8	44.3	22	45			
1558	4.3	319.1	1.5	317.8	45.9	-1.6	44.3	23	45			
1559	4.4	311.9	1.2	310.4	45.7	-1.9	44.4	23	59			

NE. QUADRANT

CATNO	MAG	AZIMUTH					Z. D		L. S. T			
		LAT	B	A	LAT	B	LAT	B	LAT	B	HRS	MIN
1082	5.0	47.6	1.2	49.1	45.7	1.8	44.3	0	17			
109	3.7	41.8	1.4	43.1	45.7	1.7	44.3	0	33			
148	4.1	46.6	1.3	48.1	45.7	1.8	44.4	1	18			
1133	5.1	43.9	1.4	45.3	45.7	1.7	44.3	2	14			
192	4.8	42.3	1.4	43.7	45.8	1.7	44.3	2	40			
221	4.2	41.2	1.4	42.5	45.8	1.6	44.3	3	20			
274	5.1	40.8	1.5	42.2	45.8	1.6	44.3	4	41			
1199	5.5	43.7	1.4	45.1	45.7	1.7	44.3	5	11			
1237	4.7	42.1	1.4	43.5	45.7	1.7	44.2	6	34			
360	4.6	45.4	1.3	46.8	45.6	1.8	44.2	6	56			
390	4.4	44.9	1.3	46.4	45.7	1.8	44.3	7	50			
1293	4.8	42.5	1.4	43.9	45.7	1.7	44.2	8	46			
461	5.2	41.2	1.4	42.5	45.8	1.6	44.3	9	55			
485	2.9	42.3	1.4	43.7	45.8	1.7	44.3	10	23			
1337	5.1	46.3	1.3	47.8	45.7	1.8	44.3	10	26			
502	5.0	44.1	1.4	45.5	45.7	1.7	44.2	10	59			
1370	4.8	46.7	1.3	48.2	45.6	1.8	44.2	11	38			
535	3.0	42.4	1.4	43.8	45.8	1.7	44.3	11	59			
568	4.5	43.9	1.4	45.3	45.7	1.7	44.3	12	49			
1414	4.8	46.6	1.3	48.1	45.7	1.8	44.4	13	11			
1423	4.9	45.3	1.3	46.8	45.7	1.8	44.3	13	31			
626	3.6	41.4	1.4	42.8	45.7	1.7	44.3	14	12			
643	3.4	44.9	1.3	46.3	45.7	1.8	44.3	14	38			
672	4.0	44.2	1.4	45.6	45.8	1.7	44.3	15	20			
1477	4.3	46.1	1.3	47.5	45.6	1.8	44.3	15	41			
699	4.3	46.1	1.3	47.5	45.6	1.8	44.3	16	5			
719	5.1	41.8	1.4	43.2	45.8	1.7	44.3	16	5			
724	4.5	45.1	1.3	47.6	45.7	1.8	44.3	16	28			
740	4.4	42.8	1.4	44.2	45.7	1.7	44.2	16	43			
1521	5.0	44.2	1.4	45.6	45.8	1.7	44.3	17	8			
1525	4.0	47.6	1.3	49.1	45.6	1.8	44.3	17	15			
1558	4.8	45.8	1.3	46.4	45.7	1.8	44.3	17	32			
1559	4.4	48.0	1.2	49.5	45.6	1.8	44.3	18	36			
852	4.9	43.0	1.4	44.4	45.7	1.7	44.3	18	47			
1009	5.2	41.5	1.4	42.8	45.8	1.7	44.3	20	8			
1005	4.5	45.2	1.3	46.6	45.8	1.8	44.4	21	40			
33	3.9	43.3	1.4	44.7	45.8	1.7	44.4	21	46			
42	2.4	43.3	1.4	44.7	45.7	1.7	44.2	22	24			
1247	5.5	42.3	1.4	43.7	45.7	1.7	44.3	22	29			
75	3.1	42.3	1.4	43.7	45.7	1.7	44.3	22	29			
1070	5.4	46.9	1.3	48.4	45.7	1.8	44.4	23	5			
109	3.7	47.9	1.2	49.4	45.7	1.8	44.4	23	27			
1082	5.0	46.1	1.3	47.6	45.8	1.8	44.4	23	52			

SW. QUADRANT

CATNO	MAG	AZIMUTH					Z. D		L. S. T			
		LAT	B	A	LAT	B	LAT	B	LAT	B	HRS	MIN
1584	5.4	227.4	-2.1	225.9	44.4	-1.8	45.8	0	35			
849	5.3	229.0	-2.1	227.5	44.4	-1.8	45.7	0	51			
873	3.8	228.1	-2.1	226.6	44.3	-1.8	45.7	1	24			
14	5.2	223.1	-2.2	221.7	44.2	-1.7	45.7	2	35			
1018	5.5	227.1	-2.1	225.7	44.4	-1.8	45.7	3	1			
1043	5.1	227.3	-2.1	225.8	44.4	-1.8	45.8	3	43			
71	4.2	228.2	-2.1	226.9	44.3	-1.8	45.7	4	15			
83	5.4	223.0	-2.2	221.6	44.2	-1.7	45.7	4	27			
102	4.8	228.3	-2.1	226.9	44.3	-1.8	45.6	5	6			
1085	4.2	223.5	-2.2	222.1	44.3	-1.7	45.7	5	8			
1099	4.3	227.3	-2.1	225.9	44.3	-1.8	45.7	5	47			
146	4.3	224.2	-2.2	222.9	44.2	-1.7	45.7	5	54			
161	5.3	229.1	-2.1	227.6	44.3	-1.8	45.6	6	37			
186	3.3	225.9	-2.1	224.5	44.3	-1.8	45.7	7	16			
204	3.5	229.1	-2.0	227.5	44.4	-1.8	45.7	7	45			
217	3.8	225.9	-2.1	224.4	44.3	-1.8	45.7	7	55			
222	3.9	228.7	-2.0	227.2	44.2	-1.8	45.6	8	7			
1165	5.5	226.0	-2.1	224.6	44.4	-1.8	45.8	8	20			
249	4.5	225.0	-2.2	223.6	44.3	-1.7	45.8	8	44			
270	3.1	223.2	-2.2	221.9	44.2	-1.7	45.7	9	8			
288	4.5	226.2	-2.1	224.8	44.2	-1.8	45.6	9	45			
308	2.9	222.4	-2.2	221.1	44.3	-1.6	45.8	10	11			
1247	5.5	228.6	-2.0	227.1	44.4	-1.8	45.7	11	49			
399	5.3	223.5	-2.2	222.3	44.2	-1.7	45.8	12	43			
421	4.5	225.4	-2.1	224.0	44.3	-1.7	45.7	13	21			
453	3.2	225.7	-2.1	224.3	44.2	-1.7	45.7	14	20			
471	2.8	224.4	-2.2	223.0	44.4	-1.7	45.8	14	42			
495	3.1	224.7	-2.2	223.3	44.3	-1.7	45.7	15	27			
594	2.5	225.6	-2.1	224.2	44.3	-1.7	45.7	18	10			
1457	4.3	222.5	-2.2	221.3	44.3	-1.7	45.8	19	30			
1463	4.9	227.2	-2.1	225.9	44.2	-1.8	45.6	19	56			
682	4.9	228.5	-2.1	227.0	44.3	-1.8	45.7	20	20			
710	3.6	228.4	-2.0	226.9	44.4	-1.8	45.7	21	13			
720	3.0	228.5	-2.1	227.0	44.3	-1.8	45.7	21	25			
806	3.9	225.8	-2.1	224.4</								

NW. QUADRANT								NE. QUADRANT											
CATNO	MAG	AZIMUTH			Z. D		L.S.T		CATNO	MAG	AZIMUTH			Z. I		L.S.T			
		LAT 10	A	LAT 12	LAT 10	B	LAT 12	HRS			MIN	LAT 10	A	LAT 12	LAT 10	B	LAT 12	HRS	MIN
811	5.1	318.2	1.3	316.9	45.7	-1.7	44.2	0	11	109	3.7	44.3	1.3	45.7	45.8	1.7	44.4	0	24
1583	4.6	317.1	1.3	315.7	45.7	-1.7	44.3	0	50	111	2.8	40.8	1.4	42.2	45.7	1.6	44.2	0	34
852	4.9	316.1	1.3	314.7	45.7	-1.7	44.2	1	17	147	3.0	42.4	1.3	43.8	45.8	1.7	44.3	1	20
1616	5.5	317.9	1.3	316.6	45.7	-1.7	44.2	2	9	1133	5.1	46.3	1.2	47.8	45.7	1.8	44.3	2	6
1005	4.5	312.5	1.2	311.0	45.7	-1.8	44.4	3	2	192	4.8	44.7	1.2	46.1	45.7	1.7	44.3	2	32
1009	5.2	314.3	1.2	312.8	45.7	-1.8	44.4	3	2	1145	4.9	42.2	1.3	43.5	45.7	1.7	44.3	2	42
1021	4.4	319.2	1.4	317.9	45.8	-1.6	44.3	3	22	221	4.2	43.6	1.3	45.0	45.7	1.7	44.2	3	12
33	3.9	315.2	1.2	313.7	45.7	-1.8	44.3	3	36	274	5.1	43.4	1.3	44.8	45.8	1.7	44.4	4	32
111	2.8	319.1	1.4	317.8	45.7	-1.6	44.2	5	40	1191	5.3	41.1	1.4	42.5	45.7	1.6	44.2	4	49
109	3.7	315.8	1.3	314.4	45.7	-1.7	44.2	5	43	1199	5.5	46.1	1.2	47.6	45.7	1.8	44.3	5	3
147	3.0	317.6	1.3	316.2	45.8	-1.7	44.3	6	33	1237	4.7	44.7	1.2	46.1	45.8	1.7	44.3	6	25
1133	5.1	313.7	1.2	312.3	45.6	-1.8	44.3	7	31	360	4.6	47.8	1.1	49.3	45.7	1.8	44.4	6	48
192	4.8	315.3	1.2	313.9	45.7	-1.7	44.3	7	52	390	4.4	47.2	1.2	48.7	45.6	1.8	44.3	7	43
1145	4.9	317.9	1.3	316.5	45.7	-1.7	44.2	7	53	1282	5.1	41.4	1.3	42.8	45.7	1.6	44.3	8	24
221	4.2	316.4	1.3	315.0	45.6	-1.7	44.2	8	28	1293	4.8	45.1	1.2	46.5	45.8	1.8	44.4	8	37
274	5.1	316.7	1.3	315.3	45.7	-1.7	44.3	9	48	461	5.2	43.7	1.3	45.1	45.8	1.7	44.4	9	46
1191	5.3	318.8	1.3	317.5	45.8	-1.6	44.3	9	57	485	2.9	44.8	1.2	46.2	45.7	1.7	44.3	10	15
1199	5.5	313.8	1.2	312.4	45.7	-1.8	44.4	10	28	494	4.7	41.2	1.4	42.5	45.7	1.6	44.2	10	43
1237	4.7	315.4	1.3	314.0	45.7	-1.7	44.3	11	45	502	5.0	46.5	1.2	48.0	45.7	1.8	44.3	10	51
360	4.6	312.2	1.1	310.7	45.7	-1.8	44.4	12	18	535	3.0	44.8	1.2	46.3	45.7	1.8	44.3	11	51
390	4.4	312.7	1.2	311.2	45.7	-1.8	44.4	13	11	555	3.6	41.5	1.3	42.8	45.7	1.6	44.2	12	27
1282	5.1	318.5	1.3	317.2	45.8	-1.6	44.3	13	33	568	4.5	46.3	1.2	47.8	45.7	1.8	44.3	12	41
1293	4.8	315.0	1.2	313.5	45.8	-1.8	44.4	13	59	573	5.2	40.8	1.4	42.2	45.7	1.6	44.2	12	57
461	5.2	316.3	1.3	314.9	45.7	-1.7	44.2	15	3	580	5.4	41.7	1.3	43.0	45.8	1.7	44.3	13	2
485	2.9	315.3	1.2	313.8	45.6	-1.7	44.2	15	35	1423	4.9	47.8	1.1	49.3	45.8	1.8	44.4	13	23
494	4.7	319.7	1.3	317.4	45.8	-1.6	44.3	15	51	626	3.6	44.0	1.3	45.4	45.8	1.7	44.4	14	3
502	5.7	313.4	1.2	312.0	45.7	-1.8	44.3	16	17	643	3.4	47.3	1.2	48.8	45.7	1.8	44.4	14	30
535	3.0	315.1	1.2	313.7	45.8	-1.8	44.4	17	12	672	4.0	46.7	1.2	48.1	45.8	1.8	44.4	15	12
555	3.6	318.4	1.3	317.1	45.8	-1.6	44.3	17	36	699	0.1	44.2	1.3	45.7	45.7	1.7	44.3	15	57
573	5.2	319.2	1.4	317.9	45.7	-1.6	44.2	18	3	724	4.5	45.3	1.2	46.7	45.6	1.8	44.2	16	35
568	4.5	313.7	1.2	312.3	45.6	-1.8	44.2	18	6	740	5.0	46.5	1.2	47.9	45.6	1.8	44.2	17	1
580	5.4	318.3	1.3	317.0	45.8	-1.7	44.3	18	12	1525	4.8	47.4	1.2	48.9	45.8	1.8	44.4	17	24
1423	4.9	312.3	1.1	310.8	45.7	-1.8	44.3	18	53	765	2.3	42.0	1.3	43.4	45.8	1.7	44.3	17	46
626	3.6	316.1	1.1	314.6	45.7	-1.7	44.3	19	21	1558	4.3	43.4	1.3	44.8	45.7	1.7	44.2	18	39
643	3.4	312.8	1.2	311.3	45.6	-1.8	44.3	19	58	811	5.1	41.8	1.3	43.2	45.8	1.7	44.3	19	1
672	4.0	313.4	1.2	311.9	45.7	-1.8	44.4	20	39	1583	4.6	42.9	1.3	44.3	45.7	1.7	44.3	19	36
699	0.1	315.7	1.3	314.3	45.8	-1.7	44.4	21	16	852	4.9	44.0	1.3	45.4	45.8	1.7	44.4	19	59
724	4.5	314.7	1.2	313.2	45.7	-1.8	44.4	21	57	1616	5.5	42.1	1.3	43.5	45.7	1.7	44.3	20	58
740	5.0	313.4	1.2	312.0	45.8	-1.8	44.4	22	27	1005	4.5	47.5	1.2	49.0	45.6	1.8	44.3	21	33
1525	4.8	312.6	1.2	311.2	45.7	-1.8	44.4	22	53	1009	5.2	45.7	1.2	47.2	45.8	1.8	44.4	21	38
765	2.3	318.0	1.3	316.6	45.8	-1.7	44.3	22	57	33	3.9	44.9	1.2	46.3	45.8	1.8	44.4	22	15
1558	4.3	316.5	1.3	315.2	45.8	-1.7	44.4	23	55	1021	4.4	40.7	1.4	42.0	45.7	1.6	44.2	22	16

SW. QUADRANT

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D		L.S.T		CATNO	MAG	AZIMUTH			Z. I		L.S.T			
		LAT 10	A	LAT 12	LAT 10	B	LAT 12	HRS			MIN	LAT 10	A	LAT 12	LAT 10	B	LAT 12	HRS	MIN
1584	5.4	223.9	-2.3	222.6	44.2	-1.7	45.6	0	26	102	4.8	134.8	-2.2	136.2	44.2	1.7	45.7	0	42
844	5.3	225.8	-2.2	224.3	44.3	-1.7	45.7	0	43	1099	4.3	136.0	-2.3	137.3	44.3	1.7	45.7	1	27
1597	5.4	227.9	-2.1	226.4	44.3	-1.8	45.7	1	0	161	5.3	134.0	-2.2	135.4	44.3	1.7	45.7	2	10
873	3.8	224.9	-2.2	223.5	44.3	-1.7	45.7	1	16	186	3.3	137.4	-2.3	138.8	44.2	1.6	45.7	3	2
1612	4.2	227.0	-2.2	225.6	44.4	-1.8	45.7	1	34	204	3.0	134.2	-2.2	135.6	44.2	1.7	45.7	3	16
1018	5.5	223.7	-2.3	222.3	44.2	-1.7	45.7	2	52	217	3.8	137.5	-2.3	138.8	44.2	1.6	45.7	3	41
1043	5.1	224.1	-2.3	222.7	44.4	-1.7	45.8	3	35	222	3.9	134.3	-2.2	135.7	44.3	1.7	45.7	3	41
71	4.2	225.1	-2.2	223.7	44.3	-1.7	45.7	4	7	1165	5.5	137.4	-2.3	138.7	44.3	1.6	45.8	4	5
192	4.8	225.4	-2.2	223.9	44.4	-1.7	45.8	4	59	288	4.5	136.9	-2.3	138.3	44.3	1.7	45.8	5	29
1099	4.3	224.1	-2.3	222.7	44.3	-1.7	45.7	5	39	1247	5.2	134.7	-2.2	136.1	44.2	1.7	45.6	7	24
161	5.3	226.1	-2.2	224.7	44.3	-1.7	45.7	6	30	453	3.2	137.4	-2.3	138.8	44.3	1.6	45.8	10	6
186	3.3	222.7	-2.3	221.4	44.3	-1.6	45.8	7	8	559	4.7	132.0	-2.1	133.5	44.4	1.8	45.8	12	57
204	3.0	225.9	-2.2	224.4	44.3	-1.7	45.7	7	37	1413	5.0	132.0	-2.1	133.4	44.3	1.8	45.7	13	27
217	3.8	222.4	-2.3	221.1	44.2	-1.6	45.7	7	46	1415	5.1	132.9	-2.2	134.3	44.3	1.8	45.7	13	40
222	3.9	225.7	-2.2	224.3	44.3	-1.7	45.8	8	0	597	2.9	132.2	-2.2	133.7	44.3	1.8	45.7	13	51
1165	5.5	222.6	-2.3	221.3	44.2	-1.6	45.7	8	11	1463	4.9	135.9	-2.3	137.2	44.3	1.7	45.8	15	36
288	4.5	223.0	-2.3	221.6	44.3	-1.7	45.8	9	37	682	4.0	134.7	-2.2	136.1	44.3	1.7	45.7	16	4
1247	5.2	225.4	-2.2	224.0	44.3	-1.7	45.7	11	41	710	3.6	134.8	-2.2	136.2	44.3	1.7	45.8	16	48
453	3.2	222.5	-2.3	221.2	44.3	-1.6	45.8	14	12	720	3.0	134.7	-2.2	136.1	44.3	1.7	45.7	17	0
559	4.7	227.9	-2.1	226.5	44.4	-1.8	45.7	17	25	722	5.0	130.7	-2.1	132.2	44.4	1.8	45.7	17	0
1413	5.0	228.1	-2.1	226.6	44.4	-1.8	45.7	17	55	1517	5.1	132.3	-2.2	133.8	44.3	1.8	45.7	17	32
1415	5.1	227.1	-2.2	225.6	44.3	-1.8	45.6	18	4	806	3.9	137.6	-2.3	138.9	44.2	1.6	45.7	19	23
597	2.9	227.9	-2.1	226.4	44.4	-1.8	45.7	18	18	1584	5.4	135.8	-2.3	137.2	44.4	1.7	45.8	20	14
1463	4.9	224.0	-2.3	222.7	44.2	-1.7	45.7	19	48	849	5.3	134.2	-2.2	135.6	44.3	1.7	45.7	20	24
682	4.0	225.3	-2.2	223.9	44.3	-1.7	45.7	20	21	1597	5.4	132.2	-2.1	133.6	44.3	1.8	45.7	20	33
710	3.6	225.2	-2.2	223.8	44.3	-1.7	45.8	21	5	873	3.8	135.2	-2.2	136.6	44.2	1.7</			

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 12	A LAT 14	LAT 12	B LAT 14				
1559	4.3	314.2	1.1	312.7	45.8	-1.8	44.4	0	3
811	5.1	315.8	1.2	314.3	45.8	-1.7	44.3	0	20
1583	4.6	314.7	1.1	313.3	45.6	-1.8	44.3	0	58
858	5.2	318.0	1.2	316.6	45.7	-1.7	44.3	1	23
852	4.9	313.7	1.1	312.2	45.6	-1.8	44.3	1	25
869	3.6	318.8	1.3	317.5	45.7	-1.6	44.2	1	39
1616	5.5	315.5	1.1	314.0	45.8	-1.7	44.4	2	18
1209	5.2	312.1	1.0	310.5	45.6	-1.8	44.3	3	9
1021	4.4	316.8	1.2	315.4	45.8	-1.7	44.3	3	31
33	3.9	312.8	1.1	311.3	45.7	-1.8	44.4	3	44
1045	4.2	317.3	1.2	315.9	45.8	-1.7	44.3	4	17
73	2.3	318.8	1.3	317.5	45.7	-1.6	44.3	4	41
111	2.8	316.7	1.2	315.3	45.7	-1.7	44.3	5	49
109	3.7	313.4	1.1	311.9	45.7	-1.8	44.3	5	51
134	3.9	319.3	1.3	318.0	45.7	-1.6	44.2	6	21
147	3.0	315.2	1.1	313.8	45.7	-1.7	44.3	6	41
1137	3.9	316.0	1.2	315.5	45.8	-1.7	44.3	7	43
185	3.3	317.2	1.2	315.8	45.7	-1.7	44.2	7	46
192	4.8	312.9	1.1	311.5	45.7	-1.8	44.3	8	9
1145	4.9	315.4	1.1	314.0	45.7	-1.7	44.3	8	2
221	4.2	313.9	1.1	312.5	45.8	-1.8	44.4	8	37
274	5.1	314.3	1.1	312.9	45.7	-1.8	44.3	9	56
1191	5.3	316.4	1.2	315.0	45.7	-1.7	44.2	10	5
339	4.1	318.2	1.2	316.8	45.8	-1.6	44.3	11	39
1237	4.7	313.1	1.1	311.6	45.7	-1.8	44.3	11	53
374	5.2	317.1	1.2	315.7	45.7	-1.7	44.3	12	38
386	3.2	317.8	1.2	316.5	45.7	-1.7	44.2	13	1
1282	5.1	316.2	1.2	314.8	45.7	-1.7	44.2	13	41
1293	4.8	312.7	1.1	311.2	45.6	-1.8	44.3	14	6
461	5.2	314.0	1.1	312.5	45.6	-1.8	44.3	15	11
470	4.3	317.6	1.2	316.3	45.7	-1.7	44.2	15	13
485	2.9	312.9	1.1	311.4	45.7	-1.8	44.3	15	43
494	4.7	316.4	1.2	315.0	45.7	-1.7	44.2	15	59
535	3.1	312.9	1.1	311.4	45.6	-1.8	44.3	17	19
555	3.6	316.1	1.2	314.7	45.6	-1.7	44.2	17	44
573	5.2	316.7	1.2	315.3	45.7	-1.7	44.2	18	12
580	5.4	316.0	1.2	314.6	45.6	-1.7	44.2	18	20
1416	4.6	319.2	1.3	317.8	45.8	-1.6	44.3	18	30
621	4.3	319.2	1.3	317.9	45.7	-1.6	44.2	19	11
626	3.6	313.7	1.1	312.2	45.7	-1.8	44.3	19	29
684	5.4	318.6	1.2	317.3	45.8	-1.6	44.3	20	54
699	0.1	313.3	1.1	311.9	45.8	-1.8	44.4	21	24
724	4.5	312.4	1.1	310.9	45.6	-1.8	44.3	22	4
765	2.3	315.6	1.2	314.2	45.6	-1.7	44.2	23	5
788	4.0	317.0	1.2	315.6	45.7	-1.7	44.3	23	38

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 12	A LAT 14	LAT 12	B LAT 14				
109	3.7	46.6	1.1	48.0	45.6	1.8	44.3	0	17
111	2.8	43.3	1.2	44.7	45.7	1.7	44.2	0	25
134	3.9	40.8	1.3	42.1	45.8	1.6	44.3	1	6
147	3.0	44.8	1.1	46.2	45.7	1.7	44.3	1	12
1137	3.9	43.1	1.2	44.5	45.8	1.7	44.3	2	19
185	3.3	42.8	1.2	44.2	45.7	1.7	44.3	2	24
192	4.8	47.1	1.1	48.6	45.7	1.8	44.4	2	24
1145	4.9	44.5	1.2	46.0	45.6	1.7	44.2	2	34
221	4.2	46.0	1.1	47.4	45.6	1.8	44.3	3	4
274	5.1	45.7	1.1	47.2	45.8	1.8	44.4	4	24
1191	5.3	43.6	1.2	45.0	45.7	1.7	44.3	4	40
1237	4.7	46.9	1.1	48.4	45.6	1.8	44.2	6	18
339	4.1	41.8	1.2	43.1	45.7	1.6	44.2	6	20
374	5.2	42.9	1.2	44.3	45.7	1.7	44.3	7	15
386	3.2	42.2	1.2	43.6	45.7	1.7	44.3	7	41
1282	5.1	43.9	1.2	45.3	45.8	1.7	44.3	8	15
1293	4.8	47.3	1.1	48.8	45.6	1.8	44.2	8	30
461	5.2	46.1	1.1	47.5	45.8	1.8	44.4	9	38
470	4.3	42.5	1.2	43.8	45.8	1.7	44.3	9	52
485	2.9	47.1	1.1	48.6	45.7	1.8	44.4	10	7
494	4.7	43.7	1.2	45.1	45.7	1.7	44.3	10	34
535	3.0	47.2	1.1	48.7	45.7	1.8	44.4	11	43
555	3.6	44.0	1.2	45.4	45.7	1.7	44.3	12	18
573	5.2	43.3	1.2	44.7	45.7	1.7	44.3	12	48
580	5.4	44.0	1.2	45.4	45.7	1.7	44.3	12	54
1416	4.6	40.8	1.3	42.2	45.8	1.6	44.3	13	14
626	3.6	46.3	1.1	47.8	45.8	1.8	44.4	13	55
621	4.3	40.8	1.3	42.1	45.7	1.6	44.2	13	56
684	5.4	41.4	1.2	42.7	45.8	1.6	44.3	15	36
699	0.1	46.6	1.1	48.1	45.7	1.8	44.3	15	49
724	4.5	47.6	1.1	49.1	45.7	1.8	44.3	16	27
765	2.3	44.4	1.2	45.8	45.6	1.7	44.2	17	38
788	4.0	43.0	1.2	44.4	45.7	1.7	44.3	18	15
1558	4.3	45.7	1.1	47.2	45.6	1.7	44.2	18	31
811	5.1	44.2	1.2	45.6	45.6	1.7	44.2	18	53
1583	4.6	45.3	1.1	46.7	45.6	1.8	44.3	19	28
852	4.9	46.3	1.1	47.7	45.6	1.8	44.2	19	52
858	5.2	42.1	1.2	43.4	45.8	1.7	44.3	20	3
869	3.6	41.2	1.3	42.5	45.7	1.6	44.2	20	23
1616	5.5	44.5	1.2	45.9	45.6	1.7	44.2	20	50
1009	5.2	48.0	1.0	49.5	45.6	1.8	44.3	21	31
1021	4.4	43.2	1.2	44.6	45.7	1.7	44.2	22	7
33	3.9	47.1	1.1	48.6	45.6	1.8	44.3	22	8
1045	4.2	42.6	1.2	44.0	45.7	1.7	44.2	22	55
73	2.3	41.2	1.2	42.6	45.8	1.6	44.3	23	24

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 12	A LAT 14	LAT 12	B LAT 14				
1597	5.4	224.6	-2.3	223.2	44.3	-1.7	45.7	0	52
1612	4.2	223.5	-2.4	222.2	44.2	-1.7	45.7	1	25
1621	5.3	227.2	-2.2	225.8	44.3	-1.8	45.7	1	54
905	4.6	229.0	-2.2	227.5	44.3	-1.8	45.7	2	17
22	2.2	227.7	-2.2	226.2	44.2	-1.8	45.6	2	54
1100	5.3	228.8	-2.2	227.3	44.3	-1.8	45.6	5	49
161	5.3	222.6	-2.4	221.3	44.2	-1.6	45.7	6	21
207	2.7	228.3	-2.2	226.9	44.4	-1.8	45.7	7	45
243	2.0	228.0	-2.2	226.5	44.3	-1.8	45.6	8	34
1212	4.6	227.3	-2.2	225.9	44.3	-1.8	45.7	10	10
373	5.2	226.3	-2.3	224.8	44.4	-1.7	45.8	12	3
1283	4.2	227.5	-2.2	226.0	44.3	-1.8	45.6	13	10
431	4.1	228.8	-2.2	227.3	44.4	-1.8	45.7	13	38
1201	4.9	227.5	-2.2	226.0	44.3	-1.8	45.7	13	55
457	2.8	229.0	-2.2	227.5	44.3	-1.8	45.7	14	29
1345	4.8	227.6	-2.2	226.1	44.3	-1.8	45.7	15	29
510	5.1	227.9	-2.2	226.4	44.3	-1.8	45.7	16	1
559	4.7	224.7	-2.3	223.3	44.3	-1.7	45.8	17	17
1413	5.0	224.9	-2.3	223.5	44.3	-1.7	45.8	17	47
1415	5.1	223.8	-2.3	222.4	44.3	-1.7	45.7	17	56
597	2.9	224.6	-2.3	223.2	44.3	-1.7	45.8	18	0
624	5.0	228.6	-2.2	227.1	44.4	-1.8	45.7	18	54
722	5.0	226.1	-2.3	224.6	44.3	-1.7	45.7	21	25
1517	5.1	224.3	-2.3	223.0	44.2	-1.7	45.7	21	50
773	5.3	227.5	-2.2	226.0	44.3	-1.8	45.6	22	50
1552	4.2	229.3	-2.2	227.8	44.4	-1.8	45.7	23	20

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 12	A LAT 14	LAT 12	B LAT 14				
1100	5.3	131.1	-2.2	132.6	44.4	1.8	45.7	1	21
161	5.3	137.3	-2.4	138.6	44.3	1.6	45.8	2	18
207	2.7	131.7	-2.2	133.2	44.3	1.8	45.7	3	19
243	2.0	131.9	-2.2	133.3	44.4	1.8	45.7	4	9
1212	4.6	132.7	-2.2	134.2	44.3	1.8	45.7	5	46
373	5.2	133.8	-2.3	135.2	44.3	1.7	45.7	7	45
1283	4.2	132.4	-2.2	133.8	44.4	1.8	45.7	8	47
431	4.1	131.2	-2.2	132.7	44.3	1.8	45.7	9	10
1301	4.9	132.4	-2.2	133.9	44.4	1.8	45.8	9	32
457	2.8	130.9	-2.2	132.4	44.4	1.8	45.8	10	0
1345	4.8	132.5	-2.2	133.9	44.3	1.8	45.7	11	6
510	5.1	132.2	-2.2	133.7	44.3	1.8	45.6	11	37
559	4.7	135.5	-2.3	136.9	44.2	1.7	45.6	13	6
1413	5.0	135.2	-2.3	136.6	44.3	1.7	45.7	13	35
1415	5.1	136.1	-2.3	137.5	44.3	1.7			

NW. QUADRANT								NE. QUADRANT											
CATNO	MAG	AZIMUTH		Z. D		L. S. T		CATNO	MAG	AZIMUTH		Z. D		L. S. T					
		LAT 14	A	LAT 16	B	LAT 14	B			LAT 16	HRS	MIN	LAT 14	A	LAT 16	B	LAT 16	HRS	MIN
1558	4.3	312.0	0.9	310.5	45.6	-1.8	44.3	0	10	111	2.8	45.6	1.0	47.0	45.6	1.7	44.2	0	17
811	5.1	313.5	1.0	312.0	45.7	-1.8	44.4	0	28	134	3.9	43.2	1.1	44.6	45.8	1.7	44.3	0	57
1583	4.6	312.5	1.0	311.0	45.7	-1.8	44.3	1	6	147	3.0	47.1	1.0	46.5	45.7	1.8	44.4	1	4
858	5.2	315.6	1.1	314.2	45.8	-1.7	44.4	1	32	1137	3.9	45.4	1.0	46.8	45.7	1.7	44.3	2	11
869	3.6	316.4	1.1	315.0	45.7	-1.7	44.2	1	48	185	3.3	45.2	1.0	46.6	45.8	1.7	44.4	2	15
891	4.3	317.0	1.1	316.5	45.7	-1.6	44.3	2	22	183	3.4	41.2	1.1	42.5	45.8	1.6	44.3	2	17
1616	5.5	313.2	1.0	311.7	45.8	-1.8	44.4	2	26	1145	4.9	46.8	1.0	48.3	45.6	1.8	44.3	2	26
1021	4.4	314.5	1.0	313.0	45.7	-1.7	44.3	3	39	255	5.3	41.4	1.1	42.8	45.7	1.6	44.2	4	2
1045	4.2	315.0	1.0	313.6	45.7	-1.7	44.3	4	25	274	5.1	47.9	0.9	49.4	45.6	1.8	44.3	4	17
73	2.3	316.4	1.1	315.0	45.7	-1.7	44.3	4	50	1191	5.3	45.9	1.0	47.4	45.7	1.8	44.3	4	32
111	2.8	314.4	1.0	312.9	45.7	-1.7	44.3	5	57	314	4.4	42.0	1.1	43.3	45.7	1.6	44.2	5	37
134	3.9	316.4	1.1	315.5	45.7	-1.7	44.2	6	30	339	4.1	44.2	1.1	45.6	45.8	1.7	44.3	6	11
147	3.0	312.9	1.0	311.5	45.7	-1.8	44.4	6	49	346	5.3	41.9	1.1	43.3	45.7	1.6	44.3	6	28
183	3.4	318.4	1.1	317.5	45.8	-1.6	44.3	7	44	374	5.2	45.2	1.0	46.6	45.7	1.7	44.3	7	7
1137	3.9	314.6	1.0	313.2	45.7	-1.7	44.3	7	51	383	3.5	42.3	1.1	43.7	45.7	1.6	44.2	7	31
185	3.3	314.8	1.0	313.4	45.7	-1.7	44.4	7	55	386	3.2	44.6	1.0	46.0	45.8	1.7	44.4	7	32
1145	4.9	313.1	1.0	311.7	45.7	-1.8	44.4	9	10	1282	5.1	46.2	1.0	47.6	45.7	1.8	44.4	8	7
255	5.3	318.5	1.1	317.2	45.8	-1.6	44.3	9	29	470	4.3	44.7	1.0	46.2	45.7	1.7	44.3	9	44
274	5.1	312.0	0.9	310.5	45.7	-1.8	44.4	10	4	494	4.7	45.9	1.0	47.4	45.7	1.8	44.3	10	26
1191	5.3	314.2	1.0	312.7	45.6	-1.8	44.2	10	13	1368	5.4	41.0	1.2	42.3	45.8	1.8	44.3	11	24
314	4.4	318.0	1.1	316.6	45.7	-1.6	44.3	11	6	555	3.6	46.3	1.0	47.7	45.7	1.8	44.3	12	10
330	4.1	315.9	1.1	314.5	45.6	-1.7	44.2	11	47	573	5.2	45.5	1.0	47.0	45.7	1.7	44.3	12	40
346	5.3	318.1	1.1	316.7	45.7	-1.6	44.3	11	57	580	5.4	46.3	1.0	47.8	45.6	1.8	44.3	12	46
374	5.2	314.4	1.0	313.4	45.7	-1.7	44.3	12	46	1416	4.6	43.2	1.1	44.6	45.8	1.7	44.4	13	5
383	3.5	317.6	1.1	316.3	45.7	-1.6	44.3	13	1	621	4.3	43.2	1.1	44.6	45.7	1.7	44.3	13	47
386	3.2	315.4	1.1	314.0	45.7	-1.7	44.3	13	10	684	5.4	43.7	1.1	45.1	45.7	1.7	44.2	15	28
1282	5.1	313.9	1.0	312.4	45.6	-1.8	44.2	13	40	711	4.2	41.0	1.2	42.3	45.7	1.6	44.3	16	12
470	4.3	315.2	1.0	313.8	45.7	-1.7	44.3	15	27	765	2.3	46.6	1.0	48.1	45.6	1.8	44.3	17	30
494	4.7	314.1	1.0	312.6	45.6	-1.8	44.2	16	7	788	4.0	45.3	1.0	46.7	45.6	1.7	44.2	18	7
1368	5.4	319.1	1.2	317.7	45.8	-1.6	44.3	16	50	792	3.9	41.1	1.2	42.4	45.8	1.8	44.3	18	21
555	3.6	313.8	1.0	312.3	45.6	-1.8	44.2	17	57	1558	4.3	48.0	0.9	48.5	45.7	1.8	44.4	18	23
573	5.2	314.3	1.0	312.9	45.8	-1.7	44.4	19	21	811	5.1	46.4	1.0	47.9	45.6	1.8	44.3	18	45
580	5.4	313.7	1.0	312.2	45.6	-1.9	44.2	18	28	1583	4.6	47.5	1.0	48.0	45.7	1.8	44.4	19	20
1416	4.6	316.8	1.1	315.4	45.8	-1.7	44.4	18	37	858	5.2	44.3	1.1	45.8	45.7	1.7	44.3	19	55
621	4.3	316.8	1.1	315.4	45.7	-1.7	44.3	19	20	869	3.6	43.6	1.1	45.0	45.7	1.7	44.2	20	14
684	5.4	316.3	1.1	314.9	45.6	-1.7	44.2	21	2	1616	5.5	46.7	1.0	48.2	45.6	1.8	44.3	20	42
711	4.2	319.1	1.2	317.8	45.7	-1.6	44.2	21	37	891	4.3	42.2	1.1	43.5	45.8	1.8	44.3	20	52
765	2.3	313.4	1.0	311.9	45.6	-1.8	44.3	23	13	1921	4.4	45.5	1.0	46.9	45.6	1.7	44.2	21	59
788	4.0	314.7	1.0	313.3	45.6	-1.7	44.3	23	46	1045	4.2	45.0	1.0	46.4	45.7	1.7	44.3	22	46
792	3.9	318.9	1.2	317.6	45.7	-1.6	44.2	23	47	73	2.3	43.6	1.1	45.0	45.8	1.7	44.4	23	15

SW. QUADRANT								SE. QUADRANT											
CATNO	MAG	AZIMUTH		Z. D		L. S. T		CATNO	MAG	AZIMUTH		Z. D		L. S. T					
		LAT 14	A	LAT 16	B	LAT 14	B			LAT 16	HRS	MIN	LAT 14	A	LAT 16	B	LAT 16	HRS	MIN
966	3.5	228.7	-2.3	227.7	44.3	-1.8	45.7	1	6	1100	5.3	134.4	-2.4	135.8	44.3	1.7	45.8	1	29
1621	5.3	223.9	-2.4	223.5	44.3	-1.7	45.9	1	46	1144	3.3	131.9	-2.3	133.4	44.3	1.8	45.6	2	1
205	4.6	225.7	-2.4	224.3	44.3	-1.7	45.7	2	9	207	2.7	135.0	-2.4	136.4	44.3	1.7	45.7	3	27
22	2.2	224.3	-2.4	223.7	44.2	-1.7	45.7	2	46	243	2.0	135.2	-2.4	136.6	44.4	1.7	45.8	4	17
59	3.7	228.5	-2.3	227.9	44.3	-1.8	45.7	3	56	257	1.6	132.8	-2.3	134.3	44.3	1.8	45.7	4	35
1100	5.3	225.4	-2.4	224.0	44.2	-1.7	45.6	5	41	1212	4.6	136.0	-2.4	137.4	44.3	1.7	45.8	5	56
1144	3.3	228.1	-2.3	226.6	44.3	-1.8	45.6	7	23	311	5.1	130.8	-2.3	132.3	44.4	1.8	45.7	5	59
207	2.7	225.1	-2.4	223.6	44.3	-1.7	45.8	7	37	373	5.2	127.3	-2.4	138.7	44.2	1.6	45.7	7	54
243	2.0	224.7	-2.4	223.3	44.2	-1.7	45.7	8	26	389	4.1	132.9	-2.3	134.3	44.3	1.7	45.7	8	16
257	1.6	227.3	-2.3	225.8	44.4	-1.8	45.7	9	54	410	3.3	131.6	-2.3	133.1	44.3	1.8	45.7	8	37
1212	4.6	224.7	-2.4	222.6	44.3	-1.7	45.8	10	2	1283	4.2	135.7	-2.4	137.0	44.4	1.7	45.8	8	55
311	5.1	229.2	-2.2	227.7	44.4	-1.8	45.8	10	26	431	4.1	134.5	-2.4	135.9	44.3	1.7	45.7	9	18
373	5.2	222.7	-2.4	221.4	44.2	-1.6	45.7	11	54	1301	4.9	136.0	-2.4	137.3	44.2	1.7	45.7	9	41
389	4.1	227.0	-2.3	225.6	44.2	-1.7	45.6	12	34	1309	5.2	133.5	-2.3	134.9	44.3	1.7	45.7	9	47
410	3.3	228.3	-2.3	226.8	44.3	-1.8	45.6	13	0	457	2.8	134.2	-2.3	135.6	44.3	1.7	45.8	10	8
1283	4.2	224.2	-2.4	222.8	44.3	-1.7	45.7	13	2	465	3.1	132.2	-2.3	133.6	44.4	1.8	45.7	10	18
431	4.1	225.5	-2.4	224.1	44.3	-1.7	45.7	13	30	1345	4.8	135.8	-2.4	137.2	44.3	1.7	45.7	11	14
1301	4.9	224.2	-2.4	222.8	44.3	-1.7	45.7	13	47	510	5.1	135.5	-2.4	136.9	44.2	1.7	45.7	11	45
1309	5.2	226.5	-2.3	225.1	44.3	-1.7	45.7	14	3	1387	5.3	131.2	-2.3	132.7	44.4	1.8	45.7	12	37
457	2.8	225.7	-2.4	224.3	44.2	-1.7	45.7	14	21	548	2.9	131.2	-2.3	132.7	44.4	1.8	45.8	12	37
465	3.1	227.7	-2.3	226.2	44.2	-1.8	45.6	14	39	1419	5.0	132.4	-2.3	133.8	44.3	1.8	45.7	13	40
1345	4.8	224.3	-2.4	222.9	44.3	-1.7	45.8	15	21	624	5.0	134.8	-2.4	136.2	44.3	1.7	45.7	14	35
510	5.1	224.6	-2.4	223.2	44.3	-1.7	45.8	15	53	727	4.6	131.3	-2.3	132.8	44.4	1.8	45.8	17	8
1387	5.3	228.7	-2.3	227.2	44.3	-1.8	45.7	17	2	722	5.0	137.5	-2.4	138.8	44.2	1.6	45.7	17	17
548	2.9	228.6	-2.3	227.2	44.3	-1.8	45.7	17	2	1512	5.5	132.1	-2.3	133.6	44.3	1.8	45.6	17	29
1419	5.0	227.9	-2.3	226.3	44.4	-1.8	45.8	18	10	1514	5.1	131.8	-2.3	133.3	44.3	1.8	45.7	17	30
624	5.0	225.3	-2.4	223.9	44.3	-1.7	45.7	19	46	773	5.3	135.9	-2.4	137.3	44.2	1.7	45.7	18	36
722	5.0	222.5	-2.4	221.2	44.2	-1.6	45.7	21	16	1552	4.2	134.0	-2.3	135.5	44.3	1.7	45.7	18	58
727	4.6	228.6	-2.3	227.2	44.4	-1.8	45.7	21	33	1561	4.3	133.3	-2.3	134.8	44.2	1.7	45.6	19	13

NW. QUADRANT									
CATNO	MAG	AZIMUTH				% D	L.S.T		
		LAT 16	A	LAT 18	LAT 16		B	LAT 18	HRS
1568	4.2	319.2	1.1	317.8	45.8	-1.6	44.3	0	21
858	5.2	313.4	0.9	311.0	45.7	-1.8	44.4	1	40
869	3.6	314.2	0.9	312.8	45.6	-1.7	44.2	1	56
1619	4.3	317.2	1.0	315.0	45.7	-1.6	44.2	2	33
891	4.3	315.6	1.0	314.1	45.8	-1.7	44.4	2	31
1021	4.4	312.3	0.8	310.8	45.8	-1.8	44.4	3	47
1335	5.0	319.1	1.1	317.7	45.7	-1.6	44.2	4	0
1040	5.0	318.9	1.0	317.5	45.8	-1.6	44.3	4	15
1045	4.2	312.8	0.9	311.3	45.7	-1.8	44.4	4	33
73	2.3	314.2	0.9	312.8	45.7	-1.7	44.3	4	58
111	2.8	312.2	0.8	310.7	45.7	-1.8	44.4	6	5
134	3.9	314.6	0.9	313.2	45.8	-1.7	44.4	6	39
183	3.4	316.5	1.0	315.1	45.8	-1.7	44.4	7	53
1137	3.9	312.4	0.9	310.9	45.7	-1.8	44.4	7	59
185	3.3	312.7	0.9	311.2	45.6	-1.8	44.2	8	2
227	2.1	318.3	1.0	317.0	45.7	-1.6	44.2	8	47
255	5.3	316.2	1.0	314.8	45.8	-1.7	44.3	9	38
1191	5.3	312.0	0.8	310.4	45.7	-1.8	44.3	10	21
314	4.4	315.7	1.0	314.3	45.9	-1.7	44.3	11	15
339	4.1	313.7	0.9	312.2	45.6	-1.7	44.2	11	55
346	5.3	315.8	1.0	314.4	45.8	-1.7	44.4	12	6
274	5.2	312.6	0.9	311.1	45.7	-1.8	44.3	12	54
393	3.5	315.3	0.9	313.9	45.8	-1.7	44.4	13	10
386	3.2	313.2	0.9	311.8	45.7	-1.8	44.4	13	19
420	3.2	317.7	1.0	316.4	45.8	-1.6	44.3	13	59
471	4.3	313.0	0.9	311.6	45.7	-1.8	44.4	15	30
1327	5.4	319.2	1.1	317.9	45.8	-1.6	44.3	15	32
494	4.7	311.9	0.8	310.4	45.7	-1.8	44.3	16	15
1368	5.4	316.8	1.0	315.4	45.8	-1.7	44.3	16	59
543	5.4	317.7	1.0	316.3	45.7	-1.6	44.2	17	28
573	5.2	312.2	0.9	310.7	45.6	-1.8	44.3	19	28
1416	4.6	314.6	0.9	313.2	45.7	-1.7	44.3	18	47
601	4.3	318.4	1.0	317.0	45.7	-1.6	44.2	18	57
621	4.3	314.6	0.9	313.2	45.6	-1.7	44.2	19	28
684	5.4	314.0	0.9	312.6	45.8	-1.7	44.4	21	11
711	4.2	316.8	1.0	315.4	45.6	-1.7	44.2	21	46
777	1.3	318.7	1.1	317.4	45.7	-1.6	44.2	23	59
788	4.1	312.5	0.9	311.0	45.7	-1.8	44.3	23	24
792	3.9	316.6	1.0	315.3	45.7	-1.7	44.3	23	56

NE. QUADRANT									
CATNO	MAG	AZIMUTH				% D	L.S.T		
		LAT 16	A	LAT 18	LAT 16		B	LAT 18	HRS
111	2.8	47.8	0.9	49.3	45.6	1.8	44.3	0	9
134	3.9	45.4	0.9	46.8	45.7	1.7	44.3	0	49
1137	3.9	47.6	0.9	49.1	45.7	1.8	44.4	2	3
185	3.3	47.3	0.9	48.8	45.6	1.8	44.3	2	8
183	3.4	43.5	1.0	44.9	45.8	1.7	44.4	2	8
227	2.1	41.7	1.0	43.0	45.7	1.6	44.2	3	9
255	5.3	43.7	1.0	45.1	45.7	1.7	44.3	3	53
1191	5.3	48.1	0.8	49.6	45.7	1.8	44.4	4	24
314	4.4	44.3	1.0	45.7	45.7	1.7	44.3	5	28
339	4.1	46.4	0.9	47.8	45.7	1.8	44.4	6	3
346	5.3	44.2	1.0	45.6	45.8	1.7	44.4	6	19
374	5.2	47.4	0.9	48.9	45.7	1.8	44.3	6	59
393	3.5	44.6	0.9	46.1	45.7	1.7	44.3	7	22
386	3.2	46.8	0.9	48.3	45.8	1.8	44.4	7	24
420	3.2	42.3	1.0	43.6	45.8	1.6	44.3	8	18
470	4.3	46.9	0.9	48.4	45.7	1.8	44.3	9	36
1327	5.4	40.7	1.1	42.0	45.7	1.6	44.2	9	57
494	4.7	48.1	0.8	49.6	45.7	1.8	44.4	10	18
1368	5.4	43.3	1.0	44.6	45.8	1.7	44.4	11	15
540	5.4	42.4	1.0	43.7	45.7	1.8	44.2	11	48
573	5.2	47.8	0.8	49.3	45.7	1.8	44.4	12	32
1416	4.6	45.4	0.9	46.8	45.7	1.7	44.3	12	57
601	4.3	41.6	1.0	43.0	45.7	1.6	44.3	13	19
621	4.3	45.4	0.9	46.8	45.6	1.7	44.2	13	39
684	5.4	46.0	0.9	47.4	45.8	1.7	44.4	15	19
711	4.2	43.3	1.0	44.6	45.7	1.7	44.3	16	3
777	1.3	41.3	1.0	42.6	45.8	1.8	44.3	17	52
788	4.0	47.5	0.9	49.0	45.6	1.8	44.3	17	59
792	3.9	43.4	1.0	44.8	45.8	1.7	44.3	18	12
1568	4.2	40.9	1.1	42.2	45.8	1.6	44.3	18	45
858	5.2	46.5	0.9	48.0	45.6	1.8	44.3	19	47
869	3.6	45.8	0.9	47.2	45.6	1.7	44.2	20	6
891	4.3	44.4	1.0	45.8	45.7	1.7	44.2	20	44
1619	4.3	42.8	1.0	44.2	45.8	1.8	44.3	20	48
1021	4.4	47.7	0.9	49.2	45.6	1.8	44.3	21	51
1040	5.0	41.0	1.0	42.3	45.8	1.8	44.3	22	33
1045	5.1	41.2	1.0	42.5	45.8	1.8	44.3	22	38
1045	4.2	47.2	0.9	48.7	45.7	1.8	44.4	22	38
73	2.3	45.8	0.9	47.3	45.7	1.7	44.4	23	7

SW. QUADRANT									
CATNO	MAG	AZIMUTH				% D	L.S.T		
		LAT 16	A	LAT 18	LAT 16		B	LAT 18	HRS
866	3.5	225.3	-2.4	223.9	44.3	-1.7	45.7	0	58
894	4.6	227.8	-2.4	226.4	44.3	-1.8	45.6	1	51
59	3.7	225.1	-2.4	223.7	44.3	-1.7	45.7	3	47
1071	4.8	226.5	-2.4	225.1	44.3	-1.7	45.7	4	38
172	4.0	228.5	-2.3	227.0	44.3	-1.8	45.7	6	49
1144	3.3	224.7	-2.5	223.3	44.3	-1.7	45.7	7	15
219	3.7	227.6	-2.4	226.1	44.3	-1.7	45.7	7	55
226	3.8	228.9	-2.3	227.4	44.3	-1.8	45.7	8	7
257	1.6	223.7	-2.5	222.3	44.2	-1.6	45.7	8	45
271	4.1	226.1	-2.4	224.7	44.4	-1.7	45.8	9	9
1202	5.1	228.1	-2.4	226.7	44.3	-1.8	45.6	9	55
311	5.1	225.8	-2.4	224.4	44.4	-1.7	45.8	10	18
264	5.0	228.9	-2.3	227.3	44.4	-1.8	45.7	11	51
389	4.1	223.7	-2.5	222.3	44.3	-1.6	45.7	12	26
410	3.3	224.9	-2.4	223.5	44.2	-1.7	45.7	12	52
426	3.8	227.9	-2.4	226.4	44.3	-1.8	45.7	13	28
1309	5.2	223.2	-2.5	221.8	44.3	-1.6	45.8	13	55
465	3.1	224.3	-2.5	222.9	44.2	-1.6	45.7	14	31
1387	5.3	225.4	-2.4	224.0	44.3	-1.7	45.7	16	54
548	2.9	225.3	-2.4	223.9	44.3	-1.7	45.7	16	54
577	4.0	223.7	-2.4	222.3	44.3	-1.7	45.7	16	54
1417	4.7	223.7	-2.4	222.3	44.3	-1.7	45.7	16	54
548	2.9	225.3	-2.4	223.9	44.3	-1.7	45.7	16	54
577	4.0	223.7	-2.4	222.3	44.3	-1.7	45.7	16	54
1419	5.5	224.2	-2.5	222.8	44.2	-1.6	45.7	18	1
1417	4.7	228.7	-2.3	227.2	44.3	-1.8	45.6	18	8
658	3.6	226.4	-2.4	225.0	44.3	-1.7	45.7	19	43
696	4.7	228.1	-2.4	226.6	44.3	-1.8	45.7	20	38
727	4.6	225.3	-2.4	223.9	44.3	-1.7	45.8	21	25
1512	5.5	224.4	-2.5	223.0	44.2	-1.7	45.7	21	42
1514	5.1	224.9	-2.4	223.5	44.3	-1.7	45.8	21	45
1522	5.1	226.2	-2.4	224.7	44.3	-1.7	45.7	22	3
762	3.3	227.6	-2.4	226.1	44.4	-1.7	45.7	22	29
1561	4.3	223.2	-2.5	221.9	44.2	-1.6	45.7	23	21
812	3.8	223.7	-2.5	222.3	44.3	-1.6	45.8	23	49
919	3.0	224.7	-2.5	223.3	44.3	-1.7	45.7	23	49

SE. QUADRANT									
CATNO	MAG	AZIMUTH				% D	L.S.T		
		LAT 16	A	LAT 18	LAT 16		B	LAT 18	HRS
1071	4.8	123.4	-2.4	124.8	44.3	1.7	45.7	0	24
172	4.0	121.4	-2.3	122.9	44.4	1.8	45.7	2	26
1144	3.3	125.3	-2.5	126.7	44.3	1.7	45.7	3	9
219	3.7	122.4	-2.4	123.9	44.3	1.7	45.7	3	37
172	3.8	121.1	-2.3	122.6	44.3	1.8	45.7	3	44
257	1.6	126.2	-2.5	127.6	44.3	1.6	45.8	4	43
271	4.1	124.0	-2.4	125.4	44.3	1.7	45.7	4	57
1202	5.1	121.8	-2.3	123.3	44.3	1.8	45.7	5	35
311	5.1	124.2	-2.4	125.6	44.3	1.7	45.7	6	7
364	5.0	121.3	-2.3	122.7	44.4	1.8	45.7	7	28
389	4.1	126.3	-2.5	127.6	44.3	1.6	45.8	8	24
410	3.3	125.0	-2.4	126.4	44.3	1.7	45.7	8	45
426	3.8	122.2	-2.4	123.6	44.3	1.8	45.6	9	9
1309	5.2	126.8	-2.5	128.2	44.3	1.6	45.8	9	55
465	3.1	125.5	-2.5	126.9	44.4	1.7	45.8	10	26
1387	5.3	124.6	-2.4	126.0	44.3	1.7	45.7	12	45
548	2.9	124.6	-2.4	126.0	44.4				

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 18	A	LAT 20	LAT 18	B	LAT 20	HRS	MIN
792	3.9	314.5	1.8	313.1	45.6	-1.7	44.2	0	4
907	5.3	318.4	1.9	317.1	45.7	-1.6	44.2	0	23
1568	4.2	317.0	1.9	315.6	45.7	-1.6	44.3	0	30
969	3.6	312.1	1.7	310.6	45.6	-1.8	44.3	2	4
890	4.0	318.2	1.9	316.8	45.8	-1.6	44.3	2	32
891	4.3	313.4	1.8	312.0	45.7	-1.7	44.4	2	39
1619	4.3	315.0	1.9	313.6	45.7	-1.7	44.3	2	39
1622	5.1	318.2	1.9	316.8	45.7	-1.6	44.3	2	40
4	5.1	317.6	1.9	316.3	45.7	-1.6	44.3	3	5
1255	5.1	316.8	1.9	315.5	45.7	-1.6	44.2	4	18
1240	5.0	316.6	1.9	315.2	45.8	-1.6	44.3	4	24
73	2.3	312.1	0.7	310.6	45.7	-1.8	44.4	5	6
134	3.9	312.6	1.8	311.1	45.6	-1.8	44.3	5	46
193	3.4	314.4	1.8	313.0	45.7	-1.7	44.3	8	1
193	4.2	317.7	1.9	316.3	45.7	-1.6	44.3	9	11
227	2.1	316.1	1.0	314.7	45.7	-1.7	44.3	9	56
255	5.3	314.1	1.9	312.7	45.7	-1.7	44.3	9	46
314	4.4	313.6	1.8	312.1	45.7	-1.7	44.4	11	23
1225	5.5	317.5	1.9	316.1	45.8	-1.6	44.3	11	36
346	5.3	313.7	1.9	312.2	45.7	-1.7	44.4	12	14
1255	5.2	317.8	1.9	316.5	45.8	-1.6	44.3	12	43
393	3.5	313.2	1.8	311.8	45.7	-1.7	44.4	13	18
1276	5.3	318.2	1.9	316.8	45.7	-1.6	44.2	13	37
420	3.2	315.6	1.9	314.2	45.7	-1.7	44.2	14	7
1327	5.4	317.0	1.9	315.6	45.7	-1.6	44.3	15	41
1369	5.4	314.7	1.9	313.2	45.7	-1.7	44.3	17	7
527	4.3	313.1	1.9	311.6	45.7	-1.6	44.3	17	11
540	5.4	315.4	1.9	314.0	45.7	-1.7	44.3	17	37
1416	4.6	312.5	1.8	311.0	45.7	-1.8	44.4	18	55
621	4.3	316.2	1.9	314.8	45.7	-1.7	44.3	19	6
628	3.9	318.2	1.9	316.8	45.7	-1.6	44.3	19	14
621	4.3	312.5	1.8	311.0	45.6	-1.8	44.3	19	36
663	3.8	317.7	1.9	316.3	45.8	-1.6	44.3	21	35
684	5.4	312.1	1.7	310.6	45.6	-1.8	44.3	21	18
711	4.2	314.6	1.8	313.1	45.7	-1.7	44.3	21	55
757	4.7	318.7	1.9	317.4	45.7	-1.6	44.2	23	7
777	1.3	316.5	1.9	315.1	45.7	-1.6	44.2	23	39

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 18	A	LAT 20	LAT 18	B	LAT 20	HRS	MIN
134	3.9	47.5	0.8	49.0	45.7	1.8	44.4	0	41
183	3.4	45.6	0.8	47.1	45.7	1.7	44.3	2	0
193	0.2	42.4	0.9	43.7	45.8	1.6	44.3	2	19
227	2.1	43.9	0.9	45.3	45.7	1.7	44.3	3	0
255	5.3	45.8	0.8	47.3	45.6	1.7	44.2	3	45
314	4.4	46.4	0.8	47.9	45.7	1.7	44.3	5	20
1225	5.5	42.4	0.9	43.8	45.7	1.6	44.2	5	44
346	5.3	46.3	0.8	47.8	45.7	1.7	44.4	6	11
1255	5.2	42.1	0.9	43.5	45.7	1.6	44.2	6	52
383	3.5	46.8	0.8	48.2	45.7	1.7	44.3	7	14
1276	5.3	41.9	0.9	43.2	45.8	1.6	44.3	7	47
420	3.2	44.4	0.9	45.6	45.7	1.7	44.3	8	19
1327	5.4	43.0	0.9	44.4	45.8	1.7	44.3	9	47
1369	5.4	44.6	0.8	46.0	45.7	1.7	44.3	11	39
1416	4.6	47.5	0.8	49.0	45.7	1.8	44.4	12	49
601	4.3	43.8	0.9	45.2	45.7	1.7	44.3	13	10
628	3.9	41.8	0.9	43.1	45.8	1.6	44.3	13	24
621	4.3	47.5	0.8	49.0	45.6	1.8	44.3	13	31
663	3.8	42.3	0.9	43.7	45.8	1.6	44.3	14	45
684	5.4	49.1	0.7	48.5	45.6	1.8	44.3	15	12
711	4.2	45.4	0.8	46.8	45.6	1.7	44.2	15	55
757	4.0	41.3	0.9	42.6	45.7	1.6	44.2	17	19
777	1.3	42.5	0.9	44.9	45.8	1.6	44.3	17	45
792	3.9	45.5	0.8	47.0	45.7	1.7	44.3	18	4
807	5.3	41.6	0.9	43.0	45.7	1.6	44.3	18	34
1568	4.2	43.1	0.9	44.5	45.8	1.6	44.3	18	36
869	3.6	47.9	0.7	49.4	45.6	1.8	44.3	19	58
891	4.3	46.5	0.8	48.0	45.6	1.7	44.3	20	36
1619	4.3	44.9	0.8	46.4	45.7	1.7	44.3	20	41
890	4.0	41.7	0.9	43.1	45.7	1.6	44.2	20	42
1622	5.1	41.8	0.9	43.2	45.7	1.6	44.3	21	54
4	5.1	42.4	0.9	43.8	45.8	1.6	44.3	21	13
1255	5.0	43.2	0.9	44.6	45.7	1.6	44.3	22	24
1240	5.0	43.4	0.9	44.8	45.7	1.6	44.3	22	29
73	2.3	47.8	0.8	49.4	45.6	1.8	44.3	23	0

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 18	A	LAT 20	LAT 18	B	LAT 20	HRS	MIN
928	4.4	225.9	-2.5	224.5	44.3	-1.7	45.8	0	12
861	4.2	226.4	-2.5	225.0	44.3	-1.7	45.7	0	54
894	4.6	224.4	-2.5	223.0	44.3	-1.6	45.7	1	43
1271	4.9	222.0	-3.6	221.5	44.2	-1.6	45.7	4	29
1366	4.9	229.1	-2.4	227.6	44.4	-1.8	45.7	4	36
97	4.4	226.7	-2.5	224.6	44.4	-1.7	45.8	4	43
149	3.2	226.6	-2.5	225.2	44.3	-1.7	45.7	6	3
172	4.0	225.1	-2.5	223.7	44.3	-1.7	45.7	6	40
1146	4.3	227.4	-2.4	225.0	44.3	-1.7	45.6	7	26
219	3.7	224.2	-2.5	222.8	44.3	-1.6	45.8	7	47
226	3.8	225.4	-2.5	224.0	44.3	-1.7	45.7	7	50
1227	5.1	224.7	-2.5	223.3	44.3	-1.6	45.7	9	47
325	5.2	229.1	-2.4	227.6	44.4	-1.8	45.7	10	53
364	5.0	225.4	-2.5	224.0	44.4	-1.7	45.8	11	43
1261	4.7	228.0	-2.4	226.5	44.4	-1.7	45.7	12	13
426	3.8	224.5	-2.5	223.1	44.3	-1.6	45.9	13	21
1371	4.6	227.7	-2.4	225.7	44.3	-1.7	45.6	16	25
577	4.7	224.2	-2.5	222.8	44.2	-1.6	45.7	17	35
1417	4.7	225.2	-2.5	223.8	44.2	-1.7	45.7	18	0
658	3.6	222.7	-2.6	221.4	44.2	-1.6	45.7	19	34
666	4.7	224.6	-2.5	223.2	44.2	-1.6	45.8	21	37
762	3.7	223.9	-2.5	222.5	44.2	-1.6	45.7	22	20
1527	4.6	228.8	-2.4	227.2	44.4	-1.8	45.7	22	27
761	3.8	228.6	-2.4	227.2	44.3	-1.8	45.7	22	27
1562	5.5	228.7	-2.4	226.5	44.4	-1.7	45.7	23	32
1577	5.2	226.5	-2.5	225.1	44.3	-1.7	45.7	23	58

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 18	A	LAT 20	LAT 18	B	LAT 20	HRS	MIN
1266	4.9	132.0	-2.4	132.4	44.4	1.8	45.7	0	14
1071	4.8	137.1	-2.6	136.4	44.2	1.6	45.7	0	37
97	4.4	134.2	-2.5	133.6	44.2	1.7	45.7	0	39
149	3.2	133.3	-2.5	134.7	44.3	1.7	45.7	1	51
172	4.0	125.0	-2.6	136.4	44.2	1.6	45.6	2	35
1146	4.3	132.6	-2.4	134.0	44.3	1.7	45.7	3	11
219	3.7	135.8	-2.5	137.2	44.4	1.6	45.9	3	45
226	3.8	134.6	-2.5	136.0	44.3	1.7	45.7	3	52
1202	5.1	135.3	-2.5	136.7	44.3	1.6	45.7	5	43
325	5.2	130.9	-2.4	132.4	44.4	1.8	45.7	6	29
364	5.0	134.7	-2.5	136.1	44.3	1.7	45.7	7	26
1261	4.7	132.2	-2.4	133.7	44.2	1.7	45.6	7	56
426	3.8	135.6	-2.5	137.0	44.3	1.6	45.7	9	17
1371	4.6	132.8	-2.4	134.2	44.3	1.7	45.6	12	11
577	4.7	135.6	-2.5	137.0	44.3	1.6	45.8	13	33
1417	4.7	134.7	-2.5	136.1	44.3	1.7	45.7	13	54
658	3.6	137.0	-2.6	138.4	44.3	1.6	45.8	15	38
696	4.7	135.3	-2.5	136.7	44.3	1.6	45.8	16	26
1527	4.6	131.2	-2.4	132.7	44.4	1.8	45.7	18	6
761	3.9	131.4	-2.4	132.9	44.3	1.8	45.7	18	7
762	3.3	135.9	-2.5	137.3	44.3	1.6	45.6	18	19
1562	5.5	132.7	-2.4	132.7	44.2	1.7	45.6	19	15
1577	5.2	132.4	-2.5	134.8	44.4	1.7	45.8	19	46
828	4.4	134.1	-2.5	135.6	44.3	1.7	45.7	20	1
861	4.2	133.6	-2.5	135.0	44.3	1.7	45.7	20	42
894	4.6	135.5	-2.5	136.9	44.3	1.6	45.8	21	40

NW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 20, A, LAT 22, LAT 20, B, LAT 22), Z. D, L. S. T (HRS, MIN). Contains data for NW quadrant.

NE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 20, A, LAT 22, LAT 20, B, LAT 22), Z. D, L. S. T (HRS, MIN). Contains data for NE quadrant.

SW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 20, A, LAT 22, LAT 20, B, LAT 22), Z. D, L. S. T (HRS, MIN). Contains data for SW quadrant.

SE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 20, A, LAT 22, LAT 20, B, LAT 22), Z. D, L. S. T (HRS, MIN). Contains data for SE quadrant.

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L.S.T HRS MIN
		LAT 22	A	LAT 24	LAT 22	B	LAT 24	
1551	4.9	315.7	0.6	314.3	45.7	-1.6	44.3	0 10
807	5.3	314.3	0.6	312.8	45.7	-1.7	44.3	0 41
1568	4.2	312.9	0.6	311.4	45.7	-1.7	44.4	0 47
821	4.3	318.3	0.7	317.0	45.7	-1.5	44.2	0 53
890	4.0	314.1	0.6	312.7	45.7	-1.7	44.3	2 49
1522	5.1	314.1	0.6	312.6	45.6	-1.7	44.2	2 57
4	5.1	313.6	0.6	312.1	45.6	-1.7	44.3	3 22
25	4.7	316.8	0.7	315.4	45.7	-1.6	44.3	3 53
1735	5.0	312.8	0.6	311.3	45.7	-1.7	44.4	4 35
1740	5.0	312.6	0.6	311.1	45.6	-1.7	44.3	4 40
52	3.8	317.3	0.7	315.9	45.7	-1.6	44.2	4 45
1763	5.1	315.5	0.6	314.1	45.7	-1.6	44.3	5 29
93	4.2	318.2	0.7	316.9	45.7	-1.6	44.2	5 50
112	4.2	318.8	0.7	317.5	45.7	-1.5	44.2	6 14
120	1.9	319.1	0.7	317.8	45.7	-1.5	44.2	6 29
124	4.6	316.4	0.7	315.0	45.7	-1.6	44.3	6 39
131	3.1	316.1	0.7	314.7	45.8	-1.6	44.3	6 52
152	4.0	316.1	0.7	314.6	45.6	-1.6	44.2	7 17
1117	4.3	317.1	0.7	315.7	45.7	-1.6	44.2	7 22
193	0.2	313.6	0.6	312.1	45.7	-1.7	44.3	9 28
216	5.5	319.2	0.8	317.9	45.7	-1.5	44.2	9 59
227	2.1	312.1	0.5	310.6	45.6	-1.7	44.3	9 12
242	5.1	318.4	0.7	317.0	45.8	-1.5	44.3	9 31
1176	5.3	317.7	0.7	316.4	45.7	-1.6	44.2	9 54
1225	5.5	313.5	0.6	312.0	45.7	-1.7	44.4	11 53
335	3.1	316.7	0.7	315.3	45.7	-1.6	44.2	12 7
341	3.7	315.4	0.6	314.0	45.7	-1.6	44.3	12 13
1255	5.2	313.8	0.6	312.3	45.7	-1.7	44.3	13 0
1276	5.3	314.0	0.6	312.6	45.7	-1.7	44.4	13 55
441	3.9	316.3	0.7	314.9	45.7	-1.6	44.3	14 55
1327	5.4	313.0	0.6	311.5	45.7	-1.7	44.4	15 58
509	1.9	318.6	0.7	317.2	45.8	-1.5	44.3	16 54
527	4.3	313.9	0.6	312.4	45.6	-1.7	44.3	17 29
601	4.3	312.2	0.5	310.7	45.6	-1.7	44.3	19 22
608	3.9	314.2	0.6	312.7	45.6	-1.7	44.2	19 31
1434	5.1	317.9	0.7	316.6	45.7	-1.6	44.3	19 46
663	3.8	313.6	0.6	312.2	45.7	-1.7	44.4	20 52
757	4.0	314.6	0.6	313.1	45.7	-1.7	44.3	23 25
777	1.3	312.5	0.6	311.0	45.7	-1.7	44.4	23 55

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L.S.T HRS MIN
		LAT 22	A	LAT 24	LAT 22	B	LAT 24	
112	4.2	41.2	0.7	42.6	45.7	1.5	44.2	0 17
120	1.9	40.8	0.7	42.2	45.7	1.5	44.2	0 17
124	4.6	43.6	0.7	45.0	45.8	1.6	44.3	0 19
131	3.1	43.9	0.7	45.3	45.8	1.6	44.3	0 31
152	4.0	44.0	0.7	45.4	45.7	1.6	44.3	0 57
1117	4.3	43.0	0.7	44.4	45.8	1.6	44.3	1 4
193	0.2	46.4	0.6	47.9	45.7	1.7	44.4	2 2
216	5.5	40.8	0.7	42.2	45.8	1.5	44.3	2 38
227	2.1	47.9	0.5	49.4	45.6	1.7	44.3	2 44
242	5.1	41.6	0.7	42.9	45.8	1.5	44.3	3 16
1176	5.3	42.3	0.7	43.7	45.7	1.6	44.3	3 36
1225	5.5	46.5	0.6	48.0	45.6	1.7	44.3	5 27
335	3.1	43.3	0.7	44.7	45.8	1.6	44.3	5 48
341	3.7	44.6	0.6	46.0	45.8	1.6	44.3	5 51
1255	5.2	46.2	0.6	47.7	45.6	1.7	44.3	6 35
1276	5.3	45.9	0.6	47.4	45.7	1.7	44.3	7 30
441	3.9	43.7	0.7	45.1	45.7	1.6	44.3	8 35
1327	5.4	47.0	0.6	48.5	45.6	1.7	44.3	9 31
509	1.9	41.4	0.7	42.7	45.7	1.5	44.2	10 40
527	4.3	46.1	0.6	47.6	45.7	1.7	44.3	11 3
601	4.3	47.8	0.5	49.3	45.6	1.7	44.3	12 54
608	3.9	45.9	0.6	47.3	45.7	1.7	44.3	13 7
1434	5.1	42.1	0.7	43.5	45.8	1.6	44.3	12 30
663	3.8	46.4	0.6	47.8	45.7	1.7	44.3	14 26
757	4.0	45.4	0.6	46.9	45.7	1.7	44.3	17 1
777	1.3	47.5	0.6	49.0	45.6	1.7	44.3	17 27
1551	4.9	44.3	0.6	45.7	45.8	1.6	44.4	17 48
807	5.3	45.8	0.6	47.2	45.8	1.7	44.4	18 16
1568	4.2	43.1	0.6	44.6	45.6	1.7	44.3	18 20
821	4.3	41.7	0.7	43.0	45.7	1.5	44.2	18 39
890	4.0	45.9	0.6	47.3	45.7	1.7	44.4	20 24
1522	5.1	45.9	0.6	47.4	45.6	1.7	44.3	20 33
4	5.1	46.5	0.6	47.9	45.7	1.7	44.4	20 56
25	4.7	43.2	0.7	44.6	45.8	1.6	44.3	21 34
1735	5.0	47.2	0.6	48.7	45.8	1.7	44.4	22 7
1740	5.0	47.4	0.6	48.9	45.7	1.7	44.3	22 13
52	3.8	42.7	0.7	44.1	45.6	1.6	44.3	22 28
1063	5.1	44.5	0.6	45.9	45.7	1.6	44.3	23 7
93	4.2	41.8	0.7	43.2	45.8	1.6	44.3	23 35

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L.S.T HRS MIN
		LAT 22	A	LAT 24	LAT 22	B	LAT 24	
1591	4.9	225.3	-2.6	223.9	44.3	-1.6	45.7	0 33
1608	4.5	228.6	-2.5	227.1	44.3	-1.7	45.6	1 23
1609	5.2	227.6	-2.6	226.1	44.3	-1.7	45.7	1 24
30	5.2	225.5	-2.6	224.1	44.3	-1.6	45.8	2 51
40	3.6	226.3	-2.6	224.9	44.3	-1.6	45.7	3 11
1651	4.8	225.3	-2.6	223.9	44.3	-1.6	45.7	3 50
62	3.9	226.2	-2.6	224.8	44.4	-1.6	45.8	3 58
127	3.8	228.0	-2.5	226.5	44.3	-1.7	45.7	5 39
135	3.7	227.4	-2.6	225.9	44.3	-1.7	45.7	5 48
220	2.2	227.6	-2.6	226.2	44.3	-1.7	45.6	7 53
1171	5.4	223.7	-2.7	222.3	44.2	-1.6	45.7	8 21
292	4.1	227.9	-2.5	226.5	44.2	-1.7	45.6	9 47
1299	4.9	227.6	-2.5	226.2	44.3	-1.7	45.7	13 42
1325	4.9	223.2	-2.5	221.8	44.4	-1.7	45.7	15 1
499	1.2	224.6	-2.6	223.3	44.2	-1.6	45.7	15 24
523	4.3	226.6	-2.6	225.2	44.3	-1.7	45.7	16 16
564	2.7	228.5	-2.5	227.1	44.3	-1.7	45.7	17 24
1400	4.8	227.7	-2.6	226.5	44.3	-1.7	45.7	17 38
622	2.7	226.0	-2.6	224.5	44.4	-1.6	45.8	18 39
1438	4.7	225.3	-2.6	223.9	44.2	-1.6	45.7	18 50
673	3.5	227.5	-2.6	226.1	44.3	-1.7	45.7	20 4
1486	4.7	228.3	-2.5	227.0	44.3	-1.7	45.6	20 50
781	3.8	227.0	-2.5	226.3	44.2	-1.7	45.6	22 53
1547	4.8	220.1	-2.5	227.6	44.4	-1.7	45.7	23 1
794	4.5	223.9	-2.7	222.5	44.3	-1.6	45.8	23 7
919	5.4	223.9	-2.7	222.5	44.3	-1.6	45.8	23 44

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L.S.T HRS MIN
		LAT 22	A	LAT 24	LAT 22	B	LAT 24	
127	3.8	132.0	-2.5	133.5	44.3	1.7	45.7	1 25
135	3.7	132.8	-2.6	134.2	44.2	1.7	45.6	1 37
220	2.2	132.2	-2.5	133.7	44.4	1.7	45.7	3 40
1171	5.4	136.2	-2.7	137.6	44.3	1.6	45.8	4 25
293	4.1	131.9	-2.5	133.4	44.3	1.7	45.7	5 33
1299	4.8	132.3	-2.5	133.7	44.4	1.7	45.7	9 29
1335	4.9	131.8	-2.5	133.3	44.3	1.7	45.6	10 46
498	1.2	135.3	-2.6	136.7	44.3	1.6	45.7	11 24
523	4.3	133.5	-2.6	134.9	44.2	1.6	45.6	12 8
564	2.7	131.6	-2.5	133.0	44.3	1.7	45.7	13 8
1409	4.8	133.0	-2.6	134.4	44.3	1.7	45.7	13 28
622	2.7	134.0	-2.6	135.4	44.4	1.6	45.6	14 33
1438	4.7	134.6	-2.6	136.0	44.3	1.6	45.7	14 47
673	3.5	132.5	-2.6	134.0	44.3	1.7	45.7	15 52
1486	4.7	131.0	-2.5	132.5	44.4	1.7	45.7	16 32
781	3.8	132.2	-2.5	133.6	44.3	1.7	45.6	18 40
1547	4.8	131.2	-2.5	132.6	44.3	1.7	45.6	18 43
794	4.5	136.1	-2.7	137.5	44.3	1.6	45.8	19 11
818	5.4	136.1	-2.7	137.5	44.3	1.6	45.8	19 47
1591	4.9	134.6	-2.6	136.0	44.3	1.6	45.7	20 29
1608	4.5	131.2	-2.5	132.7	44.4	1.7	45.7	21 6
1609	5.2	132.5	-2.6	133.9	44.3	1.7	45.6	21 12
30	5.2	134.7	-2.6	136.1	44.2	1.6	45.6	22 48
40	3.6	133.6	-2.6	135.1	44.3	1.6	45.7	23 4
1051	4.8	134.6	-2.6	136.0	44.3	1.6	45.7	23 47
62	3.9	133.8	-2.6	135.2	44.4	1.6	45.8	23 47

NW. QUADRANT

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T HRS MIN			
		LAT 24	A LAT 26	LAT 24	B LAT 26				
1551	4.9	313.8	0.5	312.4	45.6	-1.7	44.3	0	18
807	5.3	312.4	0.4	310.9	45.7	-1.7	44.3	0	49
821	4.3	316.3	0.6	314.9	45.8	-1.6	44.3	1	3
849	3.9	317.7	0.6	316.3	45.8	-1.5	44.3	1	46
890	4.0	312.2	0.4	310.7	45.7	-1.7	44.3	2	57
1622	5.1	312.2	0.4	310.7	45.6	-1.7	44.3	3	5
4	5.1	311.7	0.4	310.2	45.6	-1.7	44.3	3	30
25	4.7	314.8	0.5	313.4	45.7	-1.6	44.3	4	2
52	3.8	315.4	0.5	314.0	45.6	-1.6	44.2	4	54
57	4.2	318.3	0.6	317.0	45.8	-1.5	44.3	4	57
77	5.4	318.9	0.6	317.6	45.8	-1.5	44.3	5	26
1063	5.1	313.6	0.5	312.1	45.6	-1.7	44.3	5	37
93	4.2	316.2	0.6	314.8	45.8	-1.6	44.4	6	0
112	4.2	316.8	0.6	315.4	45.8	-1.6	44.3	6	24
120	1.9	317.2	0.6	315.8	45.8	-1.6	44.3	6	39
124	4.6	314.5	0.5	313.0	45.8	-1.6	44.4	6	48
131	3.4	314.2	0.5	312.8	45.7	-1.6	44.3	7	0
1113	4.3	317.9	0.6	316.5	45.7	-1.5	44.3	7	20
152	4.0	314.1	0.5	312.7	45.7	-1.6	44.3	7	26
1117	4.3	315.1	0.5	313.7	45.7	-1.6	44.3	7	31
193	5.2	311.7	0.4	310.2	45.7	-1.7	44.4	8	36
216	5.5	317.2	0.6	315.8	45.7	-1.6	44.3	9	0
242	5.1	316.5	0.6	315.1	45.7	-1.6	44.3	9	40
1176	5.3	315.8	0.6	314.4	45.6	-1.6	44.2	10	3
335	3.1	314.8	0.5	313.3	45.7	-1.6	44.3	12	16
341	3.7	313.5	0.5	312.0	45.7	-1.7	44.4	12	22
1255	5.2	311.9	0.4	310.4	45.7	-1.7	44.4	13	8
1276	5.3	312.2	0.4	310.7	45.7	-1.7	44.4	14	3
441	3.9	314.4	0.5	313.0	45.8	-1.6	44.4	15	4
500	1.9	314.6	0.6	313.2	45.7	-1.6	44.3	17	3
520	4.9	313.6	0.7	312.3	45.7	-1.5	44.2	17	28
527	4.3	312.0	0.4	310.5	45.6	-1.7	44.3	17	36
600	3.9	312.2	0.4	310.7	45.8	-1.7	44.4	19	40
1000	5.1	316.0	0.6	314.6	45.7	-1.6	44.3	19	55
663	3.8	311.8	0.4	310.2	45.7	-1.7	44.4	21	0
700	4.6	317.7	0.6	316.4	45.7	-1.5	44.3	22	51
757	4.0	312.7	0.5	311.2	45.7	-1.7	44.3	23	33

CATNO	MAG	AZIMUTH		Z. D		L. S. T HRS MIN			
		LAT 24	A LAT 26	LAT 24	B LAT 26				
120	1.9	42.8	0.6	44.2	45.8	1.6	44.3	0	7
124	4.6	45.5	0.5	46.9	45.6	1.6	44.3	0	11
131	3.1	45.8	0.5	47.2	45.6	1.6	44.3	0	23
152	4.0	45.9	0.5	47.4	45.8	1.6	44.4	0	48
1113	4.3	42.1	0.6	43.5	45.8	1.5	44.3	0	50
1117	4.3	44.9	0.5	46.3	45.6	1.6	44.2	0	56
193	4.2	48.3	0.4	49.8	45.7	1.7	44.4	1	54
216	5.5	42.8	0.6	44.1	45.7	1.6	44.2	2	29
242	5.1	43.5	0.6	44.9	45.7	1.6	44.3	3	7
1176	5.3	44.2	0.5	45.6	45.7	1.6	44.3	3	29
335	3.1	45.2	0.5	46.6	45.6	1.6	44.2	5	40
341	3.7	46.5	0.5	48.0	45.7	1.7	44.3	5	43
1255	5.2	48.1	0.4	49.6	45.6	1.7	44.3	6	27
1276	5.3	47.8	0.4	49.3	45.7	1.7	44.3	7	22
441	3.9	45.6	0.5	47.0	45.8	1.6	44.4	8	26
500	1.9	43.4	0.6	44.8	45.8	1.6	44.3	10	30
527	4.3	48.0	0.4	49.5	45.7	1.7	44.4	10	55
528	4.0	40.4	0.7	41.7	45.7	1.5	44.2	11	3
608	3.9	47.7	0.4	49.2	45.6	1.7	44.3	12	59
1000	5.1	48.0	0.6	49.4	45.7	1.6	44.3	13	21
663	3.8	48.2	0.4	49.7	45.7	1.7	44.4	14	18
700	4.6	42.3	0.6	43.6	45.7	1.5	44.2	16	21
757	4.0	47.3	0.5	48.8	45.7	1.7	44.3	16	53
1551	4.9	46.2	0.5	47.7	45.7	1.7	44.3	17	40
807	5.3	47.6	0.4	49.1	45.7	1.7	44.4	18	8
821	4.3	43.7	0.6	45.1	45.8	1.6	44.4	18	29
849	3.9	42.3	0.6	43.6	45.8	1.5	44.3	19	15
890	4.0	47.8	0.4	49.3	45.7	1.7	44.4	20	16
1622	5.1	47.8	0.4	49.3	45.6	1.7	44.3	20	25
4	5.1	48.3	0.4	49.8	45.7	1.7	44.4	20	48
25	4.7	45.2	0.5	46.6	45.8	1.6	44.4	21	25
52	3.8	44.6	0.5	46.1	45.7	1.5	44.3	22	19
57	4.2	41.7	0.6	43.0	45.7	1.5	44.3	22	28
77	5.4	41.1	0.6	42.4	45.7	1.5	44.2	22	59
1063	5.1	46.4	0.5	47.9	45.6	1.7	44.3	22	59
93	4.2	43.8	0.6	45.2	45.7	1.6	44.3	23	26
112	4.2	43.2	0.6	44.6	45.8	1.6	44.4	23	51

SW. QUADRANT

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T HRS MIN			
		LAT 24	A LAT 26	LAT 24	B LAT 26				
800	4.3	227.9	-2.6	226.4	44.3	-1.7	45.7	0	22
864	3.8	228.4	-2.6	226.9	44.4	-1.7	45.7	0	59
1608	4.5	225.0	-2.7	223.6	44.3	-1.6	45.7	1	15
1609	5.2	223.7	-2.7	222.4	44.2	-1.5	45.7	1	15
9	3.8	225.7	-2.7	224.3	44.3	-1.6	45.8	2	20
47	3.8	226.9	-2.6	225.5	44.2	-1.6	45.6	3	27
104	4.1	225.6	-2.7	224.2	44.4	-1.6	45.9	4	57
1091	4.9	225.6	-2.7	224.2	44.2	-1.6	45.7	5	16
127	3.8	224.2	-2.7	222.9	44.2	-1.6	45.7	5	30
135	3.7	223.5	-2.7	222.2	44.2	-1.5	45.7	5	39
190	4.3	225.0	-2.7	224.4	44.3	-1.6	45.7	7	10
194	0.3	227.1	-2.6	225.6	44.3	-1.6	45.7	7	19
220	2.2	224.1	-2.7	222.7	44.4	-1.6	45.8	7	45
1170	5.1	228.0	-2.6	226.5	44.3	-1.7	45.6	8	25
293	4.1	224.4	-2.7	223.0	44.3	-1.6	45.7	0	30
254	2.2	226.5	-2.6	225.1	44.4	-1.6	45.8	11	30
1263	5.4	227.6	-2.6	226.1	44.4	-1.7	45.6	12	22
1290	4.8	223.9	-2.7	222.4	44.2	-1.5	45.7	13	33
475	4.8	227.8	-2.6	226.3	44.3	-1.7	45.6	14	44
1335	4.0	224.4	-2.7	223.0	44.2	-1.6	45.7	14	52
1355	5.2	226.2	-2.6	224.8	44.2	-1.6	45.6	15	43
523	4.3	222.8	-2.7	221.4	44.3	-1.5	45.8	15	7
1304	5.4	226.8	-2.6	225.4	44.4	-1.6	45.8	17	4
564	2.7	224.6	-2.7	223.2	44.2	-1.6	45.7	17	15
1000	4.8	223.1	-2.7	221.9	44.2	-1.5	45.7	17	29
673	3.5	223.7	-2.7	222.3	44.2	-1.5	45.7	19	55
1482	4.1	227.0	-2.6	225.7	44.4	-1.6	45.8	20	30
1486	4.7	225.3	-2.7	223.9	44.3	-1.6	45.7	20	42
712	5.1	227.0	-2.6	225.6	44.4	-1.6	45.7	20	47
1500	5.4	227.6	-2.6	226.1	44.3	-1.7	45.6	21	17
791	3.8	224.2	-2.7	222.8	44.3	-1.6	45.8	22	45
1547	4.8	225.2	-2.7	223.8	44.3	-1.6	45.7	22	52
1569	4.8	227.9	-2.6	226.4	44.4	-1.7	45.8	23	43

CATNO	MAG	AZIMUTH		Z. D		L. S. T HRS MIN			
		LAT 24	A LAT 26	LAT 24	B LAT 26				
100	4.1	134.4	-2.7	135.8	44.3	1.6	45.8	0	54
1091	4.9	134.2	-2.7	135.6	44.4	1.6	45.8	1	13
127	3.8	135.9	-2.7	137.2	44.2	1.6	45.7	1	34
135	3.7	136.3	-2.7	137.7	44.3	1.5	45.8	1	45
190	4.3	134.0	-2.6	135.5	44.3	1.6	45.7	3	6
194	4.3	132.9	-2.6	134.3	44.3	1.6	45.7	3	9
220	2.2	136.0	-2.7	137.4	44.3	1.6	45.7	3	49
1170	5.1	131.9	-2.6	133.4	44.4	1.7	45.7	4	12
293	4.1	135.8	-2.7	137.1	44.2	1.6	45.7	5	42
354	2.2	133.7	-2.6	135.2	44.2	1.6	45.6	7	24
1263	5.4	132.3	-2.6	133.8	44.3	1.7	45.7	8	11
1290	4.8	136.1	-2.7	137.5	44.3	1.6	45.7	9	38
475	4.8	132.1	-2.6	133.6	44.3	1.7	45.7	10	32
1335	4.9	135.4	-2.7	136.8	44.3	1.6	45.8	10	54
1355	5.2	133.9	-2.6	135.2	44.2	1.6	45.6	11	38
254	5.2	137.3	-2.7	138.7	44.2	1.5	45.7	12	17
1394	4.3	133.3	-2.6	134.7	44.4	1.6	45.7	12	56
564	2.7	135.1	-2.7	136.5	44.4	1.6	45.8	13	16
1000	4.8	136.8	-2.7	138.2	44.3	1.5	45.7	13	37
673	3.5	136.4	-2.7	137.7	44.2	1.5	45.7	16	1
1482	4.1	133.0	-2.6	134.5	44.3	1.6	45.6	16	30
712	5.1	133.0	-2.6	134.4	44.3	1.6	45.7	16	38
1486	4.7	134.8	-2.7	136.2	44.2	1.6	45.6	16	41
1500	5.4	132.4	-2.6	133.8	44.3	1.7			

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS	MIN
1551	4.9	312.0	3.3	310.5	45.6	-1.7	44.3	0	26
821	4.3	314.5	0.4	313.1	45.8	-1.6	44.4	1	12
844	4.6	318.7	0.5	317.4	45.7	-1.5	44.2	1	44
848	3.9	315.9	1.4	314.5	45.7	-1.6	44.3	1	55
25	4.7	313.0	1.4	311.6	45.7	-1.6	44.3	4	10
52	3.8	313.5	0.4	312.1	45.7	-1.6	44.3	5	3
57	4.2	316.5	0.5	315.1	45.7	-1.6	44.3	5	6
77	5.4	317.0	0.5	315.6	45.8	-1.5	44.3	5	36
1063	5.1	311.8	0.2	310.3	45.6	-1.7	44.3	5	45
93	4.2	314.4	0.4	313.0	45.6	-1.6	44.3	6	8
103	4.1	319.5	0.5	318.2	45.7	-1.5	44.2	6	13
112	4.2	315.0	1.4	313.5	45.7	-1.6	44.4	6	33
120	1.9	315.3	0.4	313.9	45.8	-1.6	44.3	6	48
124	4.6	312.7	0.4	311.2	45.7	-1.7	44.3	6	56
131	3.1	312.4	0.3	311.0	45.6	-1.7	44.3	7	8
1113	4.3	316.1	0.5	314.7	45.7	-1.6	44.2	7	29
152	4.0	312.3	1.3	310.8	45.6	-1.7	44.3	7	34
1117	4.3	313.3	0.4	311.8	45.7	-1.6	44.4	7	40
216	5.5	315.4	1.4	314.0	45.7	-1.6	44.3	9	9
242	5.1	314.6	0.4	313.2	45.7	-1.6	44.4	9	49
1176	5.3	313.9	0.4	312.5	45.7	-1.6	44.3	10	12
307	4.9	317.9	0.5	316.5	45.7	-1.5	44.2	11	29
335	3.1	313.0	0.4	311.5	45.6	-1.6	44.3	12	24
341	3.7	311.7	0.3	310.2	45.7	-1.7	44.4	12	30
358	3.3	318.1	0.5	316.8	45.8	-1.5	44.3	12	54
441	3.9	312.6	1.3	311.1	45.7	-1.7	44.4	15	12
509	1.9	314.6	0.4	313.4	45.7	-1.6	44.3	17	12
528	4.9	317.7	0.5	316.4	45.7	-1.5	44.3	17	38
531	4.1	318.4	0.5	317.1	45.7	-1.5	44.2	17	46
1434	5.1	314.2	0.4	312.7	45.7	-1.6	44.3	20	4
653	3.0	319.0	0.5	317.6	45.7	-1.5	44.2	20	51
676	2.4	317.7	0.5	316.4	45.8	-1.5	44.3	21	19
733	3.9	319.1	0.5	316.7	45.7	-1.5	44.2	22	51
738	4.6	315.9	0.4	314.5	45.7	-1.6	44.3	23	0

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS	MIN
124	4.6	47.3	0.3	48.8	45.7	1.7	44.4	0	2
131	3.1	47.6	0.3	49.1	45.6	1.7	44.3	0	15
152	4.0	47.7	0.3	49.2	45.7	1.7	44.4	0	40
1113	4.3	43.9	0.5	45.3	45.7	1.6	44.3	0	41
1117	4.3	46.7	0.4	48.2	45.7	1.6	44.3	0	47
216	5.5	44.6	0.4	46.0	45.6	1.6	44.2	2	20
242	5.1	45.4	0.4	46.8	45.7	1.6	44.3	2	58
1176	5.3	46.1	0.4	47.5	45.7	1.6	44.4	3	20
307	4.9	42.1	0.5	43.5	45.7	1.5	44.2	4	45
335	3.1	47.0	0.4	48.5	45.7	1.5	44.4	5	31
341	3.7	48.3	0.3	49.8	45.6	1.7	44.3	5	35
358	3.3	41.9	0.5	43.2	45.8	1.5	44.3	6	9
441	3.9	47.4	0.3	48.9	45.7	1.7	44.4	8	18
509	1.9	45.2	0.4	46.7	45.8	1.6	44.4	10	21
528	4.9	42.3	0.5	43.6	45.7	1.5	44.3	10	53
531	4.1	41.6	0.5	42.9	45.7	1.5	44.2	11	3
1434	5.1	45.9	0.4	47.3	45.8	1.5	44.4	13	12
653	3.0	41.0	0.5	42.4	45.7	1.5	44.2	14	9
676	2.4	42.2	0.5	43.6	45.7	1.5	44.2	14	34
733	3.9	42.0	0.5	43.3	45.7	1.5	44.3	16	7
738	4.6	44.1	0.4	45.5	45.6	1.6	44.2	16	12
1551	4.9	48.0	0.3	49.5	45.7	1.7	44.3	17	32
821	4.3	45.5	0.4	46.9	45.6	1.6	44.2	18	21
844	4.6	41.3	0.5	42.7	45.8	1.5	44.3	19	1
848	3.9	44.1	0.4	45.5	45.7	1.6	44.3	19	6
25	4.7	47.3	0.4	48.4	45.7	1.6	44.3	21	17
52	3.8	46.4	0.4	47.9	45.6	1.6	44.3	22	11
57	4.2	43.5	0.5	44.9	45.7	1.6	44.2	22	19
77	5.4	43.0	0.5	44.4	45.7	1.5	44.3	22	49
1063	5.1	48.2	0.3	49.7	45.6	1.7	44.3	22	51
93	4.2	45.6	0.4	47.0	45.7	1.6	44.4	23	17
103	4.1	40.5	0.5	41.9	45.8	1.5	44.3	23	32
112	4.2	45.0	0.4	46.4	45.6	1.6	44.2	23	43
120	1.9	44.7	0.4	46.1	45.7	1.6	44.3	23	58

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS	MIN
844	4.3	224.0	-2.8	222.6	44.3	-1.5	45.7	0	13
864	3.8	224.5	-2.7	223.1	44.3	-1.5	45.7	0	53
1607	4.4	227.0	-2.6	226.4	44.3	-1.6	45.7	1	19
1636	4.7	229.0	-2.6	226.6	44.4	-1.6	45.7	2	7
1032	4.7	229.8	-2.6	227.3	44.4	-1.7	45.7	2	12
47	3.9	223.0	-2.8	221.7	44.2	-1.5	45.7	3	18
154	4.1	226.3	-2.7	224.8	44.3	-1.6	45.7	6	13
194	1.3	223.2	-2.8	221.9	44.2	-1.5	45.7	7	9
195	3.7	226.3	-2.7	224.9	44.3	-1.6	45.7	7	19
209	2.9	229.4	-2.6	226.9	44.3	-1.6	45.6	7	41
1173	5.1	224.0	-2.8	222.7	44.2	-1.5	45.7	8	16
1263	5.4	224.0	-2.8	222.6	44.3	-1.5	45.8	12	14
475	4.8	224.2	-2.7	222.8	44.3	-1.5	45.8	14	36
525	4.2	228.5	-2.6	227.0	44.4	-1.6	45.7	16	22
1482	4.1	223.3	-2.8	221.9	44.3	-1.5	45.8	20	31
702	5.1	223.2	-2.8	221.8	44.3	-1.5	45.8	20	38
1500	5.4	223.2	-2.8	222.3	44.2	-1.5	45.7	21	8
737	5.0	225.0	-2.7	224.4	44.3	-1.6	45.7	21	37
808	3.1	229.1	-2.6	227.6	44.3	-1.5	45.8	23	34
1607	4.4	229.1	-2.6	227.6	44.4	-1.7	45.7	23	39

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 26	A	LAT 28	LAT 26	B	LAT 28	HRS	MIN
154	4.1	133.8	-2.7	135.2	44.2	1.6	45.6	2	9
195	3.7	133.6	-2.7	135.0	44.3	1.6	45.7	3	14
194	0.3	136.8	-2.8	138.1	44.3	1.5	45.7	3	18
209	2.9	131.7	-2.6	133.2	44.3	1.6	45.6	3	28
1170	5.1	135.9	-2.7	137.2	44.3	1.5	45.7	4	21
1263	5.4	136.2	-2.8	137.6	44.2	1.5	45.7	8	20
475	4.8	136.0	-2.8	137.4	44.3	1.5	45.7	10	41
525	4.2	131.5	-2.6	133.0	44.3	1.6	45.7	12	8
1482	4.1	136.9	-2.8	138.3	44.2	1.5	45.7	16	39
702	5.1	136.9	-2.8	138.2	44.3	1.5	45.8	16	47
1500	5.4	136.2	-2.8	137.6	44.2	1.5	45.7	17	15
737	5.0	134.0	-2.7	135.4	44.4	1.6	45.8	17	34
808	3.1	130.9	-2.6	132.4	44.4	1.7	45.7	19	22
1569	4.8	136.2	-2.8	137.6	44.2	1.5	45.7	19	40
840	4.3	135.8	-2.7	137.2	44.3	1.5	45.8	20	18
864	3.8	135.4	-2.7	136.8	44.3	1.5	45.8	20	53
1607	4.4	132.2	-2.7	133.7	44.2	1.6	45.6	21	8
1630	4.7	132.0	-2.6	133.5	44.3	1.6	45.7	21	55
1022	4.7	131.3	-2.6	132.8	44.3	1.7	45.7	21	57
47	3.8	137.0	-2.8	138.3	44.2	1.5	45.7	23	28

NW. QUADRANT							NE. QUADRANT												
CATNO	MAG	AZIMUTH			% D		L. S. T		CATNO	MAG	AZIMUTH			% D		L. S. T			
		LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS			MIN	LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS	MIN
821	4.3	312.8	0.3	311.3	45.7	-1.6	44.3	1	20	1113	4.3	45.7	0.3	47.1	45.7	1.6	44.3	0	32
844	4.6	316.9	0.4	315.5	45.7	-1.5	44.3	1	54	1117	4.3	48.4	0.2	49.9	45.7	1.7	44.3	0	39
848	3.9	314.1	0.3	312.7	45.7	-1.6	44.4	2	4	216	5.5	46.4	0.3	47.8	45.7	1.6	44.3	2	11
17	3.7	319.3	0.4	317.9	45.7	-1.4	44.2	4	5	242	5.1	47.1	0.3	48.6	45.6	1.6	44.3	2	50
52	3.8	311.8	0.2	310.3	45.6	-1.6	44.3	5	11	1176	5.3	47.8	0.2	49.3	45.7	1.6	44.3	3	12
57	4.2	314.7	0.3	313.3	45.7	-1.6	44.3	5	15	307	4.9	43.9	0.3	45.3	45.7	1.5	44.3	4	25
77	5.4	315.3	0.3	313.8	45.7	-1.6	44.3	5	45	358	3.3	43.6	0.4	45.0	45.7	1.5	44.3	6	0
93	4.2	312.7	0.2	311.2	45.7	-1.6	44.4	6	17	447	2.5	40.7	0.4	42.0	45.7	1.4	44.2	8	24
103	4.1	317.7	0.4	316.3	45.8	-1.5	44.3	6	24	509	1.9	46.9	0.3	48.4	45.7	1.6	44.3	10	13
108	3.1	318.9	0.4	317.4	45.7	-1.5	44.3	6	33	528	4.9	44.1	0.3	45.5	45.8	1.5	44.4	10	43
112	4.2	313.3	0.3	311.8	45.6	-1.6	44.3	6	41	531	4.1	43.4	0.4	44.7	45.7	1.5	44.3	10	53
120	1.9	313.6	0.3	312.1	45.6	-1.6	44.3	6	56	1434	5.1	47.6	0.2	49.0	45.7	1.6	44.4	13	4
1113	4.3	314.3	0.3	312.9	45.7	-1.6	44.3	7	38	653	3.0	42.8	0.4	44.2	45.7	1.5	44.3	13	59
1117	4.3	311.6	0.2	310.1	45.7	-1.7	44.4	7	48	676	2.4	44.0	0.3	45.4	45.7	1.5	44.3	14	24
216	5.5	313.6	0.3	312.2	45.7	-1.6	44.4	9	19	726	4.0	41.4	0.4	42.7	45.7	1.5	44.3	15	47
242	5.1	312.9	0.3	311.4	45.6	-1.6	44.3	9	57	733	3.9	43.7	0.3	45.1	45.8	1.5	44.4	15	57
1176	5.3	312.2	0.2	310.7	45.6	-1.6	44.3	10	20	738	4.6	45.8	0.3	47.3	45.6	1.6	44.3	16	3
307	4.9	316.1	0.3	314.7	45.7	-1.5	44.3	11	30	821	4.3	47.2	0.3	48.7	45.7	1.6	44.4	18	12
358	3.3	316.4	0.4	315.0	45.7	-1.5	44.3	13	3	844	4.6	43.1	0.4	44.5	45.8	1.5	44.4	18	51
447	2.5	319.3	0.4	318.0	45.8	-1.4	44.3	15	22	848	3.9	45.9	0.3	47.3	45.7	1.6	44.4	18	57
509	1.9	313.1	0.3	311.6	45.8	-1.6	44.4	17	21	17	3.7	40.7	0.4	42.0	45.7	1.4	44.2	21	7
528	4.9	316.0	0.3	314.6	45.6	-1.5	44.2	17	47	52	3.8	48.2	0.2	49.7	45.7	1.6	44.4	22	2
531	4.1	316.6	0.4	315.3	45.7	-1.5	44.3	17	56	57	4.2	45.3	0.3	46.7	45.6	1.6	44.2	22	10
1434	5.1	312.5	0.2	311.0	45.6	-1.6	44.3	20	12	77	5.4	44.7	0.3	46.1	45.7	1.6	44.3	22	40
653	3.0	317.2	0.4	315.8	45.7	-1.5	44.3	21	1	93	4.2	47.3	0.3	48.8	45.7	1.6	44.3	23	9
676	2.4	316.0	0.3	314.6	45.7	-1.5	44.3	21	29	103	4.1	42.3	0.4	43.7	45.8	1.5	44.3	23	22
726	4.0	318.6	0.4	317.3	45.7	-1.5	44.2	22	46	108	3.1	41.2	0.4	42.6	45.7	1.5	44.2	23	34
733	3.9	316.3	0.3	314.9	45.7	-1.5	44.3	23	1	112	4.2	46.7	0.3	48.2	45.7	1.6	44.3	23	34
738	4.6	314.1	0.3	312.7	45.7	-1.6	44.3	23	9	120	1.9	46.4	0.3	47.9	45.7	1.6	44.4	23	49

SW. QUADRANT							SE. QUADRANT												
CATNO	MAG	AZIMUTH			% D		L. S. T		CATNO	MAG	AZIMUTH			% D		L. S. T			
		LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS			MIN	LAT 28	A	LAT 30	LAT 28	B	LAT 30	HRS	MIN
1595	5.3	229.2	-2.7	226.8	44.4	-1.6	45.7	3	43	1097	4.8	133.7	-2.7	135.2	44.2	1.6	45.6	1	28
1607	4.4	224.0	-2.8	222.6	44.3	-1.5	45.7	1	10	189	2.9	133.6	-2.7	135.1	44.3	1.6	45.7	3	5
1630	4.7	224.1	-2.8	222.7	44.3	-1.5	45.7	1	59	209	2.9	135.3	-2.8	136.7	44.4	1.5	45.8	3	36
1002	4.7	224.8	-2.8	223.4	44.3	-1.5	45.7	2	3	245	5.0	132.7	-2.7	134.2	44.3	1.6	45.7	4	23
1097	4.8	226.5	-2.7	225.0	44.4	-1.6	45.8	5	32	1186	5.0	131.6	-2.7	133.1	44.3	1.6	45.6	5	3
188	2.9	226.4	-2.7	225.0	44.3	-1.6	45.7	7	9	289	5.2	131.2	-2.7	132.7	44.4	1.6	45.7	5	29
209	2.9	224.4	-2.8	223.0	44.2	-1.5	45.7	7	32	490	4.5	134.2	-2.8	135.6	44.4	1.5	45.8	11	8
246	5.0	227.3	-2.7	225.8	44.3	-1.6	45.7	9	31	525	4.2	135.4	-2.8	136.8	44.3	1.5	45.7	12	17
1186	5.0	228.5	-2.7	227.0	44.4	-1.6	45.7	9	16	545	4.0	134.6	-2.8	136.0	44.3	1.5	45.7	12	42
289	5.2	228.6	-2.7	227.2	44.3	-1.6	45.6	9	43	605	3.3	132.6	-2.7	134.0	44.3	1.6	45.7	14	13
499	4.5	225.6	-2.8	224.2	44.2	-1.5	45.6	15	9	1445	5.0	131.4	-2.7	132.9	44.4	1.6	45.7	14	53
525	4.2	224.6	-2.8	223.2	44.3	-1.5	45.7	16	13	647	4.6	133.4	-2.7	134.9	44.3	1.6	45.7	15	23
545	4.0	225.4	-2.8	224.0	44.3	-1.5	45.7	16	42	1489	4.5	132.7	-2.7	134.2	44.4	1.6	45.7	16	42
605	3.3	227.6	-2.7	226.1	44.4	-1.6	45.7	18	22	717	3.6	133.1	-2.7	134.5	44.3	1.6	45.7	17	2
1445	5.0	228.6	-2.7	227.1	44.4	-1.6	45.7	19	7	1543	4.6	133.4	-2.7	134.8	44.4	1.6	45.8	18	44
647	4.6	226.5	-2.7	225.1	44.3	-1.6	45.7	19	29	808	3.1	134.8	-2.8	136.2	44.3	1.5	45.7	19	31
1489	4.5	227.2	-2.7	225.8	44.3	-1.6	45.7	20	50	1595	5.3	131.9	-2.7	133.3	44.3	1.6	45.6	20	31
717	3.6	226.8	-2.7	225.4	44.3	-1.6	45.6	21	8	1607	4.4	136.1	-2.8	137.5	44.2	1.5	45.7	21	17
1543	4.6	226.5	-2.7	225.1	44.3	-1.6	45.7	22	40	1630	4.7	135.9	-2.8	137.3	44.3	1.5	45.7	22	4
808	3.1	225.2	-2.8	223.8	44.3	-1.5	45.7	23	30	1002	4.7	135.3	-2.8	136.7	44.2	1.5	45.7	22	6

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 30	A	LAT 32	LAT 30	B	LAT 32	HRS	MIN
944	4.6	315.3	0.2	313.8	45.6	-1.5	44.2	2	3
848	3.9	312.5	0.1	311.0	45.6	-1.6	44.3	2	12
17	3.7	317.6	0.3	316.2	45.7	-1.5	44.2	4	15
1030	5.3	318.1	0.3	317.7	45.7	-1.4	44.2	4	45
57	4.2	313.1	0.2	311.6	45.7	-1.6	44.3	5	24
1054	5.0	318.4	0.3	317.1	45.8	-1.4	44.3	5	40
77	5.4	313.6	0.2	312.2	45.7	-1.6	44.4	5	54
163	4.1	316.0	0.2	314.6	45.7	-1.5	44.3	6	33
108	3.1	317.1	0.3	315.7	45.7	-1.5	44.3	6	43
112	4.2	311.6	0.1	310.1	45.7	-1.6	44.4	6	50
120	1.9	312.0	0.1	310.5	45.7	-1.6	44.4	7	5
1113	4.3	312.7	0.1	311.2	45.7	-1.6	44.4	7	47
216	5.5	312.0	0.1	310.5	45.6	-1.6	44.3	9	26
225	3.9	318.3	0.3	316.9	45.8	-1.4	44.3	9	37
307	4.9	314.5	0.2	313.0	45.7	-1.5	44.3	11	48
358	3.3	318.8	0.2	317.3	45.6	-1.5	44.2	13	12
447	2.5	317.6	0.3	316.2	45.7	-1.5	44.3	15	32
497	2.4	319.3	0.3	318.0	45.7	-1.4	44.2	17	1
528	4.9	314.3	0.2	312.9	45.8	-1.6	44.4	17	57
531	4.1	316.0	0.2	314.6	45.7	-1.5	44.3	18	5
1397	5.2	318.9	0.3	317.4	45.7	-1.4	44.2	18	44
595	5.0	319.0	0.3	317.7	45.9	-1.4	44.3	19	36
655	5.0	319.6	0.3	318.2	45.8	-1.4	44.3	21	10
657	5.0	319.6	0.3	318.2	45.8	-1.4	44.3	21	10
653	3.0	315.5	0.2	314.1	45.8	-1.5	44.4	21	11
676	2.4	314.4	0.2	312.9	45.7	-1.6	44.3	21	37
726	4.0	317.0	0.3	315.6	45.7	-1.5	44.2	22	56
733	3.9	314.6	0.2	313.2	45.7	-1.5	44.3	23	13
738	4.6	312.5	0.1	311.0	45.7	-1.6	44.4	23	18

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 30	A	LAT 32	LAT 30	B	LAT 32	HRS	MIN
1113	4.3	47.3	0.1	48.8	45.7	1.6	44.4	0	23
216	5.5	48.0	0.1	49.5	45.6	1.6	44.3	2	3
225	3.9	41.7	0.3	43.1	45.7	1.4	44.3	2	19
307	4.9	45.5	0.2	47.0	45.7	1.5	44.3	4	26
358	3.3	45.2	0.2	46.7	45.6	1.5	44.3	5	51
447	2.5	42.4	0.3	43.8	45.8	1.5	44.3	8	13
497	2.4	40.7	0.3	42.0	45.8	1.4	44.3	9	45
528	4.9	45.7	0.2	47.1	45.8	1.6	44.4	10	34
531	4.1	45.0	0.2	46.4	45.7	1.5	44.3	10	44
1397	5.2	41.2	0.3	42.6	45.8	1.4	44.3	11	27
595	5.0	41.0	0.3	42.3	45.7	1.4	44.2	12	19
653	3.0	44.5	0.2	45.9	45.8	1.5	44.4	13	49
655	5.0	40.4	0.3	41.7	45.7	1.4	44.2	13	54
657	5.0	40.4	0.3	41.8	45.7	1.4	44.2	13	54
676	2.4	45.6	0.2	47.1	45.7	1.6	44.3	14	15
726	4.0	43.1	0.3	44.4	45.7	1.5	44.3	15	37
733	3.9	45.4	0.2	46.8	45.7	1.5	44.3	15	48
738	4.6	47.5	0.1	49.0	45.7	1.6	44.4	15	54
844	4.6	44.8	0.2	46.2	45.7	1.5	44.3	18	42
848	3.9	47.5	0.1	49.0	45.6	1.6	44.3	18	49
17	3.7	42.4	0.3	43.8	45.8	1.5	44.3	20	56
1030	5.3	40.9	0.3	42.3	45.7	1.4	44.2	21	29
57	4.2	46.9	0.2	48.4	45.7	1.6	44.3	22	1
1054	5.0	41.6	0.3	42.9	45.8	1.4	44.3	22	22
77	5.4	46.4	0.2	47.8	45.7	1.6	44.3	22	31
103	4.1	44.0	0.2	45.4	45.6	1.5	44.2	23	13
108	3.1	42.9	0.3	44.3	45.7	1.5	44.2	23	24
112	4.2	48.4	0.1	49.9	45.6	1.6	44.3	23	26
120	1.9	48.0	0.1	49.5	45.7	1.6	44.4	23	41

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 30	A	LAT 32	LAT 30	B	LAT 32	HRS	MIN
942	4.0	220.8	-2.7	229.3	44.4	-1.6	45.7	0	32
1595	5.3	224.3	-2.8	222.9	44.3	-1.5	45.8	0	34
900	5.1	225.9	-2.8	224.3	44.3	-1.5	45.7	1	58
1722	4.9	231.2	-2.7	229.6	44.3	-1.7	45.6	3	4
1049	5.3	225.4	-2.8	223.9	44.2	-1.5	45.6	3	41
1080	5.3	225.4	-2.8	224.0	44.2	-1.5	45.7	4	55
1097	4.8	222.2	-2.9	220.9	44.3	-1.4	45.8	5	22
116	5.1	231.2	-2.6	229.7	44.4	-1.7	45.7	5	24
137	5.1	231.3	-2.6	229.8	44.4	-1.7	45.7	5	56
1111	5.3	230.4	-2.7	228.0	44.2	-1.6	45.6	6	11
1120	5.2	225.4	-2.8	224.0	44.2	-1.5	45.6	6	22
169	4.1	226.4	-2.8	224.9	44.3	-1.5	45.7	6	37
176	4.2	226.7	-2.8	225.3	44.3	-1.5	45.7	6	47
188	2.9	222.2	-2.9	220.8	44.2	-1.4	45.7	6	59
210	1.8	231.4	-2.6	229.9	44.4	-1.7	45.7	7	48
246	5.0	223.3	-2.9	222.0	44.3	-1.5	45.8	9	22
1175	5.0	231.3	-2.6	229.8	44.4	-1.7	45.6	8	45
1186	5.0	224.6	-2.8	223.2	44.3	-1.5	45.8	9	7
299	5.0	225.0	-2.8	223.6	44.4	-1.5	45.8	9	35
304	5.1	225.9	-2.8	224.4	44.2	-1.5	45.7	9	59
316	4.0	225.3	-2.8	223.9	44.3	-1.5	45.7	10	24
1230	5.2	226.4	-2.8	225.0	44.3	-1.5	45.7	10	50
1273	5.2	228.1	-2.7	226.7	44.3	-1.6	45.7	12	34
1292	4.6	226.2	-2.8	224.7	44.3	-1.5	45.8	13	17
493	4.5	221.6	-2.9	220.3	44.3	-1.4	45.8	15	0
545	4.0	221.0	-2.9	219.9	44.3	-1.4	45.8	16	32
533	5.0	229.2	-2.7	227.7	44.3	-1.6	45.6	16	35
585	3.6	226.6	-2.8	225.0	44.4	-1.5	45.8	17	51
605	3.0	223.3	-2.9	222.0	44.2	-1.5	45.7	19	12
603	3.0	225.0	-2.8	224.5	44.3	-1.5	45.7	19	14
1445	5.0	224.6	-2.8	223.3	44.3	-1.5	45.8	18	58
647	4.6	222.3	-2.9	221.0	44.2	-1.4	45.7	19	18
688	3.4	227.7	-2.7	226.2	44.4	-1.6	45.8	20	25
1080	5.4	229.5	-2.7	228.0	44.3	-1.6	45.6	20	37
1089	4.5	223.3	-2.9	221.9	44.3	-1.4	45.8	20	41
717	3.6	222.9	-2.9	221.5	44.3	-1.4	45.8	20	50
1509	5.2	227.6	-2.8	226.2	44.3	-1.6	45.6	21	34
1532	5.1	227.5	-2.8	226.1	44.4	-1.6	45.7	22	33
1543	4.6	222.0	-2.9	220.7	44.2	-1.4	45.7	22	39
808	3.1	221.0	-2.9	219.7	44.2	-1.4	45.8	23	20

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z. D			L. S. T	
		LAT 30	A	LAT 32	LAT 30	B	LAT 32	HRS	MIN
1080	5.3	134.6	-2.8	136.0	44.3	1.5	45.7	0	56
116	5.1	128.9	-2.7	130.4	44.3	1.6	45.6	1	0
137	5.1	128.7	-2.6	130.2	44.4	1.7	45.7	1	31
1097	4.8	137.7	-2.9	139.0	44.3	1.4	45.8	1	37
1111	5.3	129.6	-2.7	131.1	44.4	1.6	45.6	1	50
1120	5.2	134.5	-2.8	135.9	44.3	1.5	45.7	2	23
169	4.1	133.4	-2.8	134.9	44.4	1.5	45.8	2	33
176	4.2	133.3	-2.8	134.7	44.3	1.5	45.7	2	42
188	2.9	137.6	-2.9	138.9	44.3	1.4	45.8	3	14
210	1.8	128.7	-2.7	130.3	44.3	1.7	45.6	3	23
1175	5.0	128.6	-2.6	130.2	44.4	1.7	45.7	4	21
246	5.0	136.7	-2.9	138.1	44.3	1.5	45.8	4	32
1186	5.0	135.6	-2.8	137.0	44.2	1.5	45.7	5	12
289	5.2	135.2	-2.8	136.6	44.3	1.5	45.7	5	38
304	5.1	134.1	-2.8	135.5	44.3	1.5	45.7	5	58
316	4.7	134.6	-2.8	136.0	44.3	1.5	45.7	6	25
1230	5.2	133.4	-2.8	134.8	44.4	1.5	45.8	6	46
1270	5.2	131.9	-2.7	133.4	44.3	1.6	45.7	8	23
1292	4.6	134.0	-2.8	135.5	44.2	1.5	45.6	9	15
490	4.5	138.4	-2.9	139.8	44.3	1.4	45.8	11	18
533	5.0	130.7	-2.7	132.2	44.4	1.6	45.7	12	19
545	4.0	138.8	-2.9	140.1	44.3	1.4	45.8	12	52
585	3.6	133.6	-2.8	135.1	44.2	1.5	45.6	13	47
603	3.0	134.2	-2.8	135.6	44.3	1.5	45.7	14	13
605	3.3	136.5	-2.9	137.9	44.3	1.5	45.8	14	22
1445	5.0	135.4	-2.8	136.7	44.3	1.5	45.8	15	2
647	4.6	137.7	-2.9	139.0	44.2	1.4	45.7	15	37
688	3.4	132.5	-2.8	133.9	44.3	1.6	45.7	16	16
1489	5.4	130.4	-2.7	131.9	44.3	1.6	45.7	16	20
1489	4.5	137.0	-2.9	138.3	44.2	1.4	45.7	16	52
717	3.6	137.4	-2.9	138.7	44.2	1.4	45.7	17	12
1509									

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T			
		LAT 32	A LAT 34	LAT 32	B LAT 34	HRS	MIN		
758	4.3	319.8	0.2	318.5	45.7	-1.4	44.2	0	0
844	4.6	313.7	0.1	312.2	45.6	-1.5	44.2	2	12
17	3.7	316.0	0.1	314.6	45.7	-1.5	44.3	4	25
21	2.5	319.7	0.2	318.4	45.8	-1.4	44.3	4	27
1030	5.3	317.5	0.2	316.1	45.8	-1.4	44.3	4	56
57	4.2	311.5	0.0	310.0	45.6	-1.6	44.3	5	32
1354	5.0	316.9	0.1	315.5	45.7	-1.5	44.3	5	50
77	5.4	312.1	0.0	310.6	45.6	-1.6	44.3	6	2
99	4.0	318.9	0.2	317.5	45.7	-1.4	44.2	6	37
103	4.1	314.5	0.1	313.0	45.6	-1.5	44.3	6	42
108	3.1	315.5	0.1	314.1	45.8	-1.5	44.3	6	53
1157	4.9	318.7	0.2	317.4	45.7	-1.4	44.2	9	41
225	3.0	316.7	0.1	315.3	45.7	-1.5	44.3	9	47
307	4.9	312.9	0.0	311.4	45.7	-1.6	44.4	11	57
358	3.3	313.2	0.1	311.7	45.6	-1.5	44.3	13	21
394	4.8	319.2	0.2	317.9	45.7	-1.4	44.2	14	17
416	2.4	319.8	0.2	318.5	45.7	-1.4	44.2	14	48
447	2.5	316.0	0.1	314.6	45.7	-1.5	44.3	15	42
483	1.7	319.2	0.2	317.9	45.8	-1.4	44.3	16	41
497	2.4	317.7	0.2	316.4	45.8	-1.4	44.3	17	12
528	4.9	312.9	0.0	311.3	45.6	-1.6	44.3	18	5
531	4.1	313.4	0.1	312.0	45.6	-1.5	44.3	18	14
1397	5.2	317.2	0.1	315.8	45.7	-1.4	44.2	18	54
595	5.0	317.4	0.2	316.1	45.7	-1.4	44.3	19	46
653	3.0	314.0	0.1	312.5	45.7	-1.5	44.4	21	20
655	5.0	318.0	0.2	316.6	45.7	-1.4	44.2	21	20
657	5.0	318.0	0.2	316.6	45.7	-1.4	44.2	21	20
676	2.4	312.8	0.1	311.3	45.7	-1.6	44.3	21	46
726	4.0	315.4	0.1	314.0	45.7	-1.5	44.3	23	6
733	3.9	313.1	0.0	311.6	45.7	-1.5	44.3	23	19

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z. I		L.S.T			
		LAT 32	A LAT 34	LAT 32	B LAT 34	HRS	MIN		
1157	4.9	41.3	0.2	42.6	45.8	1.4	44.3	2	5
225	3.9	43.3	0.1	44.7	45.7	1.5	44.3	2	9
307	4.9	47.1	0.0	48.6	45.7	1.6	44.4	4	17
358	3.3	46.8	0.1	48.3	45.6	1.5	44.3	5	42
394	4.8	40.8	0.2	42.1	45.7	1.4	44.2	6	42
416	2.4	40.2	0.2	41.5	45.8	1.4	44.3	7	13
447	2.5	44.0	0.1	45.4	45.7	1.5	44.2	8	4
483	1.7	40.8	0.2	42.1	45.8	1.4	44.3	9	5
497	2.4	42.2	0.2	43.6	45.7	1.4	44.2	9	35
528	4.9	47.2	0.0	48.7	45.6	1.6	44.3	10	26
531	4.1	46.6	0.1	48.0	45.6	1.5	44.3	10	35
1397	5.2	42.8	0.2	44.2	45.7	1.4	44.3	11	17
595	5.0	42.6	0.2	43.9	45.7	1.4	44.2	12	9
653	3.0	46.0	0.1	47.5	45.7	1.5	44.4	13	40
655	5.0	42.0	0.2	43.4	45.8	1.4	44.3	13	43
657	5.0	42.0	0.2	43.4	45.8	1.4	44.3	13	43
676	2.4	47.2	0.0	48.7	45.7	1.6	44.4	14	6
726	4.0	44.6	0.1	46.0	45.7	1.5	44.3	15	27
733	3.9	46.9	0.0	48.4	45.7	1.5	44.4	15	39
758	4.3	40.2	0.2	41.5	45.8	1.4	44.3	16	25
844	4.6	46.3	0.1	47.8	45.7	1.5	44.3	18	33
17	3.7	44.0	0.1	45.4	45.7	1.5	44.2	20	47
21	5.5	40.3	0.2	41.6	45.7	1.4	44.2	20	52
1030	5.3	42.5	0.2	43.9	45.8	1.4	44.3	21	18
57	4.2	48.5	0.0	50.0	45.6	1.6	44.3	21	53
1054	5.0	43.1	0.2	44.5	45.7	1.5	44.3	22	12
77	5.4	47.9	0.0	49.4	45.7	1.6	44.4	22	22
99	4.0	41.1	0.2	42.5	45.8	1.4	44.3	23	1
103	4.1	45.5	0.1	47.0	45.7	1.5	44.4	23	3
108	3.1	44.5	0.1	45.9	45.7	1.5	44.3	23	10

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z.D		L.S.T			
		LAT 32	A LAT 34	LAT 32	B LAT 34	HRS	MIN		
827	3.2	229.4	-2.7	227.9	44.4	-1.6	45.7	0	13
842	4.1	226.8	-2.8	225.3	44.3	-1.5	45.7	0	23
950	4.1	229.7	-2.7	228.2	44.3	-1.6	45.6	0	43
901	5.1	221.5	-2.9	220.2	44.3	-1.4	45.8	1	48
1022	4.9	227.5	-2.8	226.0	44.3	-1.5	45.7	2	56
1049	5.3	221.1	-3.0	219.8	44.2	-1.4	45.7	3	31
1080	5.3	221.1	-3.0	219.8	44.2	-1.4	45.7	4	45
91	4.0	230.9	-2.7	229.4	44.4	-1.6	45.7	4	50
116	5.1	227.2	-2.8	225.8	44.2	-1.5	45.6	5	15
137	5.0	227.3	-2.8	225.9	44.2	-1.5	45.6	5	47
1101	4.4	231.1	-2.7	229.6	44.4	-1.6	45.7	5	48
1111	5.3	226.7	-2.8	225.3	44.4	-1.5	45.8	6	3
1120	5.2	221.1	-3.0	219.8	44.2	-1.4	45.7	6	12
169	4.1	222.1	-2.9	220.9	44.2	-1.4	45.7	6	27
176	4.2	222.4	-2.9	221.1	44.3	-1.4	45.7	6	37
1147	4.7	229.4	-2.7	227.9	44.4	-1.6	45.7	7	29
210	1.8	227.4	-2.8	226.0	44.3	-1.5	45.7	7	39
226	2.5	229.7	-2.7	228.2	44.4	-1.6	45.7	7	40
1161	5.3	231.6	-2.7	230.1	44.4	-1.6	45.7	8	11
1175	5.0	227.6	-2.8	226.1	44.4	-1.5	45.7	8	37
1197	4.1	229.3	-2.7	227.8	44.4	-1.6	45.7	9	10
304	5.1	221.5	-2.9	220.2	44.2	-1.4	45.7	9	49
316	4.3	221.0	-3.0	219.7	44.3	-1.4	45.8	10	14
1230	5.2	222.1	-2.9	220.8	44.2	-1.4	45.7	10	40
1250	4.1	228.0	-2.8	226.5	44.4	-1.5	45.7	11	44
1270	5.2	224.1	-2.9	222.8	44.3	-1.4	45.8	12	25
1292	4.6	221.9	-2.9	220.6	44.3	-1.4	45.8	13	7
427	4.5	228.9	-2.9	227.4	44.4	-1.6	45.7	13	43
460	4.1	228.9	-2.9	227.5	44.3	-1.6	45.6	14	26
511	3.4	229.1	-2.8	227.6	44.3	-1.6	45.6	15	41
533	5.1	225.2	-2.9	223.8	44.2	-1.5	45.7	16	26
585	3.6	222.3	-2.9	221.0	44.3	-1.4	45.8	17	41
603	3.0	221.6	-2.9	220.3	44.3	-1.4	45.8	18	4
688	3.4	223.4	-2.9	222.1	44.3	-1.4	45.7	20	15
1400	5.4	225.0	-2.9	224.4	44.4	-1.5	45.8	20	29
1509	5.2	223.6	-2.9	222.3	44.2	-1.4	45.8	21	25
756	3.4	228.3	-2.8	226.8	44.2	-1.5	45.7	22	16
1533	5.1	223.2	-2.9	221.9	44.3	-1.4	45.7	22	23

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z. I		L.S.T			
		LAT 32	A LAT 34	LAT 32	B LAT 34	HRS	MIN		
91	4.0	129.1	-2.7	130.7	44.4	1.6	45.7	0	27
1080	5.3	138.8	-3.0	140.1	44.3	1.4	45.8	1	6
116	5.1	132.6	-2.8	134.1	44.3	1.5	45.7	1	8
1101	4.4	128.9	-2.7	130.5	44.4	1.6	45.7	1	24
137	5.1	132.7	-2.8	134.1	44.2	1.5	45.6	1	40
1111	5.3	133.6	-2.8	135.0	44.2	1.5	45.6	1	59
1120	5.2	138.8	-3.0	140.1	44.3	1.4	45.8	2	33
169	4.1	137.7	-2.9	139.1	44.3	1.4	45.8	2	43
176	4.2	137.6	-2.9	138.9	44.3	1.4	45.8	2	52
1147	4.7	130.7	-2.8	132.2	44.3	1.6	45.6	3	13
206	2.5	130.3	-2.7	131.8	44.4	1.6	45.7	3	22
210	1.8	132.5	-2.8	133.9	44.3	1.5	45.7	3	31
1161	5.3	128.5	-2.7	130.0	44.4	1.6	45.6	3	45
1175	5.0	132.6	-2.8	134.1	44.2	1.5	45.6	4	20
1197	4.1	130.8	-2.8	132.3	44.3	1.6	45.7	5	3
304	5.1	138.4	-2.9	135.7	44.3	1.4	45.8	6	8
316	4.0	138.9	-3.0	140.2	44.3	1.4	45.8	6	35
1230	5.2	137.7	-2.9	139.0	44.3	1.4	45.8	6	56
1250	4.1	132.1	-2.8	133.6	44.3	1.5	45.7	7	34
1270	5.2	135.9	-2.9	137.3	44.3	1.4	45.7	8	32
1292	4.6	138.3	-2.9	135.7	44.2	1.4	45.7	8	25
437	4.5	131.3	-2.8	132.7	44.4	1.6	45.7	9	29
460	4.0	130.8	-2.7	132.3	44.4	1.6	45.7	10	11
501	3.4	130.8	-2.8	132.3	44.3	1.6	45.7	11	26
533	5.0	134.7	-2.9	136.1	44.3	1.5	45.7	12	28
585	3.6	137.9	-2.9	139.3	44.2	1.4	45.7	13	57
603	3.0	138.5	-2.9	135.8	44.2	1.4	45.7	14	23
688	3.4	136.5	-2.9	137.8	44.3	1.4	45.8	16	25
1400	5.4	134.4	-2.8	135.8	44.3	1.5	45.7	16	29
1509	5.2	136.3	-2.9	137.7	44.3	1.4	45.8	17	34
756	3.4	131.9	-2.8	133.3	44.3	1.5	45.6	18	5
1533	5.1	136.7	-2.9	138.1	44.3	1.4	45.8	18	34
827	3.2	130.8	-2.8	132.3	44.3	1.6	45.6	19	57
842	4.0	13							

NW. QUADRANT

Table with 10 columns: CATNO MAG, AZIMUTH (LAT 34 A, LAT 36, LAT 34 B, LAT 36), Z.D, L.S.T (HRS MIN). Rows 758 to 733.

NE. QUADRANT

Table with 10 columns: CATNO MAG, AZIMUTH (LAT 34 A, LAT 36, LAT 34 B, LAT 36), Z.D, L.S.T (HRS MIN). Rows 175 to 108.

SW. QUADRANT

Table with 10 columns: CATNO MAG, AZIMUTH (LAT 34 A, LAT 36, LAT 34 B, LAT 36), Z.D, L.S.T (HRS MIN). Rows 927 to 756.

SE. QUADRANT

Table with 10 columns: CATNO MAG, AZIMUTH (LAT 34 A, LAT 36, LAT 34 B, LAT 36), Z.D, L.S.T (HRS MIN). Rows 91 to 1022.

NW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 36 A, LAT 38), Z.D. (LAT 36 B, LAT 38), L.S.T. (HRS, MIN). Contains 30 rows of data for the NW quadrant.

NE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 36 A, LAT 38), Z.I. (LAT 36 B, LAT 38), L.S.T. (HRS, MIN). Contains 30 rows of data for the NE quadrant.

SW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 36 A, LAT 38), Z.D. (LAT 36 B, LAT 38), L.S.T. (HRS, MIN). Contains 30 rows of data for the SW quadrant.

SE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH (LAT 36 A, LAT 38), Z.I. (LAT 36 B, LAT 38), L.S.T. (HRS, MIN). Contains 30 rows of data for the SE quadrant.

NW. QUADRANT							NE. QUADRANT												
CATNO	MAG	AZIMUTH		Z. D		L. S. T	CATNO	MAG	AZIMUTH		Z. D		L. S. T						
		LAT 38	A LAT 40	LAT 38	B LAT 40				LAT 38	B LAT 40	HRS	MIN		HRS	MIN				
758	4.3	315.7	-0.2	314.3	45.7	-1.4	44.3	0	32	175	5.4	43.9	-0.2	45.4	45.7	1.4	44.3	0	27
782	4.6	317.2	-0.2	315.8	45.7	-1.3	44.3	1	5	1157	4.9	45.4	-0.2	46.6	45.8	1.4	44.4	1	34
836	3.6	318.0	-0.1	316.6	45.8	-1.3	44.3	2	31	225	3.9	47.4	-0.3	48.9	45.7	1.4	44.4	1	40
847	4.0	318.3	-0.1	316.9	45.7	-1.3	44.3	2	49	237	4.4	40.7	-0.1	42.1	45.7	1.3	44.2	1	57
899	4.6	317.0	-0.2	315.6	45.7	-1.3	44.2	4	13	292	5.0	41.1	-0.1	42.4	45.7	1.3	44.2	3	21
2	2.4	319.3	-0.1	318.0	45.7	-1.3	44.2	4	29	368	3.9	40.6	-0.1	41.9	45.7	1.3	44.2	5	29
17	3.7	311.9	-0.3	310.4	45.7	-1.5	44.4	4	53	394	4.8	44.8	-0.2	46.3	45.7	1.4	44.3	6	10
21	2.5	315.6	-0.2	314.2	45.8	-1.4	44.3	4	50	398	5.2	43.3	-0.2	44.7	45.7	1.3	44.3	6	14
1030	5.3	313.4	-0.3	311.9	45.7	-1.4	44.3	5	25	416	2.4	44.3	-0.2	45.7	45.7	1.4	44.3	6	41
1154	5.0	312.8	-0.3	311.3	45.7	-1.4	44.4	6	19	447	2.5	48.1	-0.3	45.6	45.6	1.5	44.3	7	36
90	4.0	314.8	-0.2	313.3	45.7	-1.4	44.3	7	8	456	3.4	43.4	-0.2	44.8	45.7	1.4	44.2	7	55
108	3.1	311.4	-0.3	309.9	45.6	-1.5	44.3	7	20	467	5.4	41.4	-0.1	42.8	45.8	1.3	44.3	8	8
175	5.4	316.1	-0.2	314.7	45.7	-1.4	44.3	9	6	483	1.7	44.9	-0.2	46.3	45.7	1.4	44.3	8	34
1157	4.9	314.6	-0.3	313.2	45.7	-1.4	44.3	10	12	497	2.4	46.3	-0.2	47.8	45.7	1.4	44.3	9	5
225	3.9	312.6	-0.3	311.1	45.6	-1.4	44.3	10	15	1397	5.2	46.9	-0.3	48.4	45.7	1.4	44.3	10	48
237	4.4	319.3	-0.1	318.0	45.8	-1.3	44.3	10	39	571	3.5	40.7	-0.1	42.0	45.7	1.3	44.2	11	4
292	5.0	318.9	-0.1	317.6	45.7	-1.3	44.2	12	2	595	5.0	46.6	-0.3	48.1	45.7	1.4	44.4	11	39
268	3.9	319.4	-0.1	318.1	45.9	-1.3	44.3	14	11	598	4.1	41.3	-0.1	42.6	45.7	1.3	44.2	11	41
294	4.8	315.0	-0.2	313.7	45.6	-1.4	44.2	14	48	627	4.9	43.8	-0.2	45.2	45.8	1.4	44.3	12	25
298	3.7	316.7	-0.2	315.3	45.9	-1.3	44.3	14	54	655	5.0	46.1	-0.2	47.5	45.8	1.4	44.3	13	13
416	2.4	315.7	-0.2	314.3	45.7	-1.4	44.3	15	20	657	5.0	46.1	-0.2	47.6	45.6	1.4	44.3	13	14
447	2.5	312.0	-0.3	310.4	45.7	-1.5	44.4	16	10	671	3.9	43.7	-0.2	45.1	45.7	1.4	44.2	13	34
456	3.4	316.6	-0.2	315.2	45.7	-1.4	44.2	16	34	707	4.9	40.2	-0.1	41.6	45.7	1.3	44.2	14	30
467	5.4	316.6	-0.1	317.2	45.8	-1.3	44.3	16	50	758	4.3	44.3	-0.2	45.7	45.6	1.4	44.2	15	54
493	1.7	315.1	-0.2	313.7	45.7	-1.4	44.3	17	12	782	4.6	42.8	-0.2	44.2	45.7	1.3	44.2	16	25
497	2.4	313.7	-0.2	312.2	45.6	-1.4	44.3	17	41	836	3.6	42.0	-0.1	43.4	45.7	1.3	44.2	17	50
1297	5.2	313.1	-0.3	311.7	45.7	-1.4	44.4	19	24	847	4.0	41.7	-0.1	43.1	45.7	1.3	44.2	18	8
571	3.5	319.3	-0.1	318.0	45.7	-1.3	44.2	19	45	899	4.8	43.0	-0.2	44.4	45.8	1.3	44.3	19	33
595	5.0	313.4	-0.3	311.9	45.6	-1.4	44.3	20	15	2	2.4	40.7	-0.1	42.0	45.8	1.3	44.3	19	47
598	4.1	319.7	-0.1	317.4	45.7	-1.3	44.2	20	22	17	3.7	48.1	-0.3	45.6	45.6	1.5	44.3	20	19
627	4.9	316.7	-0.2	314.8	45.3	-1.4	44.4	21	5	21	2.5	44.4	-0.2	45.9	45.7	1.4	44.3	20	20
655	5.0	313.0	-0.2	312.4	45.7	-1.4	44.3	21	50	1030	5.3	46.6	-0.3	48.1	45.7	1.4	44.3	21	49
657	5.1	313.0	-0.2	312.4	45.7	-1.4	44.3	21	50	1054	5.0	47.2	-0.3	48.7	45.7	1.4	44.4	21	43
671	3.9	316.3	-0.2	314.9	45.7	-1.4	44.3	22	13	99	4.0	45.2	-0.2	46.7	45.8	1.4	44.4	22	39
707	4.9	319.8	-0.1	319.4	45.9	-1.3	44.2	23	12	108	3.1	48.6	-0.3	50.1	45.6	1.5	44.3	22	47

SW. QUADRANT							SE. QUADRANT												
CATNO	MAG	AZIMUTH		Z. D		L. S. T	CATNO	MAG	AZIMUTH		Z. D		L. S. T						
		LAT 38	A LAT 40	LAT 38	B LAT 40				LAT 38	B LAT 40	HRS	MIN		HRS	MIN				
1602	4.6	227.0	-2.9	225.5	44.3	-1.4	45.7	1	6	1072	5.0	128.7	-2.8	130.3	44.3	1.5	45.6	0	22
878	3.9	225.6	-2.9	224.2	44.3	-1.4	45.7	1	16	107	2.8	132.2	-2.9	133.6	44.4	1.4	45.7	0	56
1620	4.6	221.4	-3.0	220.1	44.2	-1.3	45.7	1	31	1093	5.0	134.2	-2.9	135.6	44.3	1.4	45.7	1	18
1034	5.3	226.5	-2.9	225.1	44.4	-1.4	45.8	3	19	180	3.9	136.4	-3.0	137.8	44.3	1.3	45.8	2	58
65	4.8	225.4	-3.0	224.0	44.3	-1.4	45.7	3	52	244	4.5	131.0	-2.9	132.5	44.3	1.5	45.6	4	15
56	4.7	231.1	-2.8	229.6	44.4	-1.5	45.7	3	53	258	4.7	136.5	-3.0	137.9	44.2	1.3	45.7	4	52
1072	5.0	231.4	-2.9	229.8	44.4	-1.5	45.7	4	48	291	0.5	129.1	-2.8	130.6	44.4	1.4	45.7	5	26
107	2.8	227.7	-2.9	226.2	44.3	-1.4	45.7	5	6	1205	5.1	137.9	-3.0	139.3	44.3	1.3	45.8	5	59
1193	5.0	225.9	-2.9	224.5	44.3	-1.4	45.7	5	19	1224	4.5	133.7	-2.9	135.1	44.4	1.4	45.8	6	36
180	3.9	223.5	-3.0	222.1	44.2	-1.3	45.7	6	48	347	3.8	136.4	-3.0	137.8	44.3	1.3	45.8	7	18
204	4.5	229.2	-2.9	227.7	44.4	-1.5	45.7	8	31	1249	4.8	130.4	-2.8	131.9	44.4	1.5	45.7	7	28
269	4.7	223.6	-3.0	222.2	44.3	-1.3	45.7	8	42	1284	5.1	132.9	-2.9	134.4	44.4	1.4	45.7	8	56
1205	5.1	222.0	-3.0	220.6	44.3	-1.3	45.8	9	42	1297	5.2	134.9	-3.0	136.3	44.3	1.4	45.8	9	28
291	0.5	220.9	-2.8	219.2	44.3	-1.5	45.6	9	50	445	3.8	137.9	-3.0	139.2	44.3	1.3	45.8	9	58
1224	4.5	226.2	-2.9	224.8	44.3	-1.4	45.7	10	39	1317	5.1	133.8	-2.9	135.2	44.3	1.4	45.7	10	18
347	3.8	223.4	-3.0	222.0	44.2	-1.3	45.7	11	9	484	3.7	133.7	-2.9	135.1	44.3	1.4	45.7	11	53
1249	4.8	229.4	-2.9	227.9	44.3	-1.5	45.6	11	46	1351	4.9	133.0	-2.9	134.4	44.3	1.4	45.7	11	30
1284	5.1	227.1	-3.0	225.6	44.4	-1.4	45.7	13	3	516	4.3	138.7	-3.0	140.0	44.2	1.3	45.7	12	11
1297	5.2	224.0	-3.0	222.5	44.2	-1.4	45.7	13	25	547	3.8	137.7	-3.0	139.0	44.3	1.3	45.8	12	53
445	3.8	222.0	-3.0	220.7	44.2	-1.3	45.7	13	41	562	5.4	129.9	-2.8	131.4	44.3	1.5	45.6	13	4
1317	5.1	226.3	-2.9	224.9	44.3	-1.4	45.7	14	21	588	3.8	131.0	-2.9	132.5	44.3	1.4	45.7	13	42
484	3.7	226.3	-2.9	224.9	44.2	-1.4	45.6	14	56	1459	4.4	132.0	-2.9	133.4	44.1	1.4	45.7	15	20
1351	4.9	226.0	-2.9	224.5	44.2	-1.4	45.6	15	36	665	2.0	130.8	-2.9	132.3	44.4	1.5	45.7	15	34
516	4.3	221.5	-3.0	220.2	44.3	-1.3	45.8	15	51	668	3.7	135.7	-3.0	137.1	44.3	1.3	45.7	15	50
547	3.8	222.2	-3.0	220.9	44.2	-1.3	45.7	16	37	677	4.0	135.0	-3.0	136.4	44.3	1.4	45.8	16	1
562	5.4	233.3	-2.9	228.8	44.4	-1.5	45.7	17	25	1476	4.9	134.0	-2.9	135.4					

NW. QUADRANT

Table with 7 columns: CATNO, MAG, AZIMUTH (LAT 40 A, LAT 42), Z. D (LAT 40, B, LAT 42), L.S.T (HRS, MIN). Rows 759-707.

NE. QUADRANT

Table with 7 columns: CATNO, MAG, AZIMUTH (LAT 40 A, LAT 42), Z. D (LAT 40, B, LAT 42), L.S.T (HRS, MIN). Rows 175-122.

SW. QUADRANT

Table with 7 columns: CATNO, MAG, AZIMUTH (LAT 40 A, LAT 42), Z. D (LAT 40, B, LAT 42), L.S.T (HRS, MIN). Rows 934-901.

SE. QUADRANT

Table with 7 columns: CATNO, MAG, AZIMUTH (LAT 40 A, LAT 42), Z. D (LAT 40, B, LAT 42), L.S.T (HRS, MIN). Rows 1072-56.

NW. QUADRANT									NE. QUADRANT										
CATNO	MAG	AZIMUTH				Z. D		L. S. T		CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 42	A	LAT 44	LAT 42	B	LAT 44	HRS	MIN			LAT 42	A	LAT 44	LAT 42	B	LAT 44	HRS	MIN
758	4.3	313.6	-1.5	312.1	45.7	-1.3	44.4	0	53	175	5.4	46.1	-0.5	47.6	45.7	1.3	44.3	0	6
782	4.6	315.0	-1.4	313.6	45.6	-1.3	44.3	1	26	182	4.2	47.8	-0.3	42.2	45.8	1.2	44.3	0	15
1572	4.5	320.0	-1.3	318.7	45.7	-1.2	44.2	2	32	1157	4.9	47.6	-0.5	49.1	45.6	1.4	44.3	1	15
836	3.6	315.9	-1.4	314.5	45.7	-1.3	44.3	2	53	237	4.4	42.8	-0.4	44.2	45.7	1.3	44.2	1	34
847	4.0	316.1	-1.4	314.7	45.7	-1.3	44.2	3	11	292	5.0	43.2	-0.4	44.6	45.7	1.3	44.2	2	58
949	4.8	314.8	-1.4	313.4	45.7	-1.3	44.3	4	35	317	3.5	40.3	-0.3	41.6	45.7	1.2	44.2	3	42
?	2.4	317.2	-1.4	315.8	45.7	-1.3	44.2	4	52	368	3.9	42.7	-0.4	44.0	45.8	1.3	44.3	5	5
21	2.5	313.5	-1.5	312.4	45.7	-1.3	44.3	5	19	394	4.8	47.0	-0.5	48.5	45.7	1.4	44.4	5	50
32	2.8	312.4	-1.3	318.1	45.7	-1.2	44.2	5	42	398	5.2	45.5	-0.4	46.9	45.7	1.3	44.3	5	53
48	2.8	318.7	-0.3	317.4	45.7	-1.2	44.2	6	10	416	2.4	46.5	-0.5	47.9	45.7	1.3	44.3	6	21
99	4.0	312.6	-1.5	311.1	45.7	-1.4	44.4	7	28	456	3.4	45.5	-0.4	47.0	45.6	1.3	44.2	7	34
122	4.4	318.4	-1.4	317.0	45.8	-1.2	44.3	8	13	467	5.4	43.6	-0.4	45.0	45.7	1.3	44.3	7	46
175	5.4	313.9	-1.3	312.4	45.8	-1.3	44.4	9	27	483	1.7	47.1	-0.5	48.5	45.7	1.4	44.3	8	14
182	4.2	319.2	-1.3	317.8	45.8	-1.2	44.3	9	48	500	5.4	41.4	-0.3	42.7	45.7	1.2	44.3	8	42
1157	4.9	312.4	-1.5	310.9	45.7	-1.4	44.4	10	32	497	2.4	48.6	-0.5	50.1	45.7	1.4	44.3	8	46
237	4.4	317.2	-1.4	315.8	45.7	-1.3	44.3	11	?	571	3.5	42.8	-0.4	44.2	45.8	1.3	44.3	10	40
292	5.0	316.9	-1.4	315.4	45.7	-1.3	44.3	12	25	598	4.1	43.4	-0.4	44.8	45.7	1.3	44.3	11	18
317	3.5	319.7	-1.4	318.4	45.8	-1.2	44.3	13	16	627	4.9	46.0	-0.4	47.5	45.6	1.3	44.3	12	5
368	3.9	317.3	-1.4	316.0	45.7	-1.3	44.3	14	34	655	5.0	48.3	-0.5	49.8	45.7	1.4	44.4	12	54
394	4.8	312.9	-1.5	311.5	45.6	-1.4	44.3	15	8	657	5.0	48.3	-0.5	49.8	45.7	1.4	44.4	12	54
398	5.2	314.6	-1.4	313.1	45.7	-1.3	44.3	15	15	671	3.9	45.9	-0.4	47.4	45.7	1.3	44.3	13	13
416	2.4	313.5	-1.5	312.1	45.6	-1.3	44.3	15	40	707	4.9	42.3	-0.4	43.7	45.8	1.2	44.3	14	6
456	3.4	314.5	-1.4	313.0	45.6	-1.3	44.3	16	55	758	4.3	46.4	-0.5	47.9	45.7	1.3	44.3	15	33
467	5.4	316.4	-1.4	315.0	45.7	-1.3	44.3	17	12	782	4.6	45.0	-0.4	46.4	45.7	1.3	44.3	16	3
483	1.7	312.9	-1.5	311.4	45.7	-1.4	44.3	17	32	1572	4.5	40.0	-0.3	41.3	45.7	1.2	44.2	16	58
497	2.4	311.4	-1.5	309.9	45.6	-1.4	44.3	18	0	836	3.6	44.2	-0.4	45.6	45.7	1.3	44.3	17	28
500	5.4	318.6	-1.3	317.3	45.7	-1.2	44.3	18	13	847	4.7	43.8	-0.4	45.2	45.8	1.3	44.4	17	45
571	3.5	317.2	-1.4	315.8	45.8	-1.3	44.3	20	9	899	4.8	45.2	-0.4	46.6	45.7	1.3	44.3	19	12
598	4.1	316.6	-1.4	315.2	45.7	-1.3	44.3	20	45	?	2.4	42.9	-1.4	44.2	45.7	1.3	44.3	19	24
627	4.9	314.0	-1.5	312.5	45.7	-1.3	44.3	21	25	?	2.5	46.6	-0.5	48.0	45.6	1.3	44.3	20	0
655	5.0	311.7	-1.5	310.2	45.6	-1.4	44.3	22	9	32	2.8	40.6	-0.3	41.9	45.7	1.2	44.2	20	9
657	5.0	311.7	-1.5	310.1	45.6	-1.4	44.3	22	9	48	2.8	41.3	-0.3	42.6	45.7	1.2	44.2	20	9
671	3.0	314.1	-1.5	312.7	45.7	-1.3	44.4	22	34	99	4.0	47.4	-0.5	48.9	45.6	1.4	44.3	22	11
707	4.0	317.7	-1.4	316.3	45.8	-1.2	44.3	23	36	122	4.4	41.6	-0.4	43.0	45.7	1.2	44.3	22	42

SW. QUADRANT									SE. QUADRANT										
CATNO	MAG	AZIMUTH				Z. D		L. S. T		CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 42	A	LAT 44	LAT 42	B	LAT 44	HRS	MIN			LAT 42	A	LAT 44	LAT 42	B	LAT 44	HRS	MIN
834	3.7	224.7	-3.0	222.7	44.3	-1.3	45.7	0	6	85	4.3	129.9	-2.9	131.5	44.3	1.4	45.6	0	16
1606	5.2	227.9	-2.9	226.4	44.4	-1.4	45.7	1	24	1072	5.0	137.6	-3.1	139.0	44.3	1.2	45.8	0	42
1614	4.5	224.5	-3.0	223.1	44.3	-1.3	45.7	1	25	1104	5.4	136.1	-3.0	137.5	44.3	1.3	45.8	1	48
992	4.0	222.5	-3.1	221.1	44.3	-1.2	45.8	1	32	151	3.9	136.3	-3.0	137.7	44.3	1.2	45.8	2	6
992	4.0	226.0	-3.0	224.6	44.4	-1.3	45.8	2	0	1134	3.3	133.5	-3.0	135.0	44.3	1.3	45.7	2	46
28	4.6	228.0	-2.9	226.5	44.4	-1.3	45.7	2	54	179	3.8	137.5	-3.1	138.8	44.3	1.2	45.7	2	57
36	4.5	228.7	-2.9	227.2	44.4	-1.4	45.7	3	10	201	1.7	135.4	-3.0	136.8	44.2	1.3	45.7	3	26
56	4.7	221.9	-3.1	220.6	44.2	-1.2	45.7	3	32	224	0.6	132.5	-3.0	133.9	44.3	1.3	45.6	3	49
1158	4.5	221.2	-2.9	220.7	44.4	-1.4	45.7	4	26	1174	4.5	132.6	-3.0	134.1	44.3	1.3	45.6	4	27
1072	5.0	222.5	-3.1	221.2	44.3	-1.2	45.8	4	28	285	3.1	130.9	-2.9	131.5	44.3	1.4	45.6	5	15
85	4.3	220.3	-2.9	228.8	44.4	-1.4	45.7	4	39	291	7.5	138.3	-3.1	139.6	44.3	1.2	45.8	5	47
1104	5.4	223.9	-3.0	222.5	44.3	-1.3	45.8	5	41	1223	4.2	136.9	-3.1	138.2	44.3	1.2	45.7	6	42
151	3.7	223.6	-3.0	222.3	44.3	-1.2	45.8	5	58	334	3.3	136.2	-3.0	137.5	44.3	1.3	45.7	6	58
179	3.9	222.4	-3.1	221.1	44.2	-1.2	45.7	6	43	378	4.9	130.4	-2.9	131.9	44.4	1.4	45.7	7	49
1134	3.3	226.3	-3.0	224.9	44.3	-1.3	45.7	6	51	418	4.7	132.2	-2.9	133.6	44.4	1.4	45.7	8	58
201	1.7	224.9	-3.0	223.5	44.3	-1.3	45.8	7	23	427	4.1	135.8	-3.0	137.2	44.3	1.3	45.7	9	23
224	0.6	227.8	-2.9	226.3	44.4	-1.3	45.7	9	7	1302	4.2	134.3	-3.0	135.8	44.3	1.3	45.7	9	44
1174	4.5	227.5	-3.0	226.0	44.3	-1.3	45.7	9	37	1311	4.6	134.3	-3.0	135.7	44.3	1.3	45.7	9	59
291	0.5	221.6	-3.1	220.3	44.2	-1.2	45.7	9	20	1328	5.2	131.4	-2.9	132.9	44.3	1.4	45.6	10	37
285	3.1	220.7	-2.9	228.5	44.3	-1.4	45.6	9	37	1344	5.7	137.3	-3.1	138.7	44.3	1.2	45.8	11	23
1223	4.2	223.1	-3.1	221.7	44.2	-1.2	45.7	10	31	1375	5.1	136.6	-3.1	138.0	44.2	1.2	45.7	12	28
334	3.3	223.0	-3.0	221.6	44.3	-1.3	45.8	10	51	592	2.8	134.8	-3.0	136.3	44.3	1.3	45.7	12	44
378	4.0	220.5	-2.9	228.7	44.3	-1.4	45.6	12	0	1511	4.6	132.5	-3.0	134.0	44.3	1.3	45.7	17	28
418	4.7	227.8	-2.9	226.4	44.4	-1.3	45.7	13	10	745	0.9	128.8	-2.9	130.3	44.3	1.4	45.6	17	36
427	4.1	224.1	-3.0	222.7	44.2	-1.3	45.7	13	17	749	3.9	135.3	-3.0	136.7	44.2	1.3	45.7	17	56
1202	4.2	225.5	-3.0	224.1	44.2	-1.3	45.7	13	45	1531	5.4	139.3	-3.1	139.6	44.3	1.2	45.8	18	31
1311	4.6	225.8	-3.0	224.4	44.3	-1.3	45.7	14	1	800	4.1	138.8	-3.1	140.1	44.2	1.2	45.7	19	25
1328	5.2	228.5	-2.9	227.0	44.3	-1.4	45.6	14	52	834	3.7	135.9	-3.0	137.2	44.3	1.3	45.8	20	12
1344	5.7	222.6	-3.1	221.3	44.3	-1.2	45.8	15	11	1606	5.2	129.3	-2.9	130.8	44.3	1.4	45.6	20	58
1375	5.1	223.6	-3.0	222.2	44.2	-1.2	45.8	16	19	1614	4.5	135.5	-3.0	136.9	44.3	1.3	45.7	21	29
582	2.8	225.2	-3.0	223.8	44.3	-1.3	45.7	17	43	892	4.3	137.6	-3.1	138.9	44.3	1.2	45.8	21	46
1511	4.7	227.4	-2.9	226.0	44.2	-1.3	45.7	21	38	282	4.3	134.1	-3.0	135.5	44.3	1.3	45.7	21	57
749	3.0	224.8	-3.0	223.4	44.2	-1.3	45.7	21	53	908	4.6	132.3	-3.0	133.7	44.3	1.3	45.6	22	42
745	0.0	221.6	-3.0	220.3	44.4	-1.4	45.7	22	4	36	4.5	131.3	-2.9	132.8	44.3	1.4	45.7	22	54
1531	5.4	221.6	-3.1	220.3	44.2	-1.2	45.7	22	13	56	4.7	129.2	-3.1	130.5	44.2	1.2	45.7	23	49
602	4.																		

NW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 44	A	LAT 46	LAT 44	B	LAT 46	HRS	MIN
758	4.3	312.6	-0.6	311.2	45.7	-1.3	44.4	1	3
782	4.6	314.1	-1.6	312.6	45.7	-1.3	44.3	1	37
1572	4.5	319.2	-0.4	317.9	45.8	-1.2	44.3	2	45
836	3.6	315.0	-0.5	313.6	45.7	-1.3	44.3	3	4
847	4.0	315.3	-1.5	313.8	45.6	-1.3	44.2	3	22
999	4.8	313.9	-0.6	312.4	45.6	-1.3	44.3	4	45
2	2.4	316.3	-0.5	314.9	45.7	-1.2	44.3	5	4
21	2.5	312.5	-0.6	311.0	45.7	-1.3	44.3	5	29
32	2.8	318.6	-1.5	317.3	45.8	-1.2	44.3	5	55
48	2.8	317.9	-1.5	316.6	45.8	-1.2	44.3	6	23
99	4.0	311.6	-0.6	310.1	45.7	-1.3	44.4	7	38
122	4.4	317.5	-1.5	316.2	45.7	-1.2	44.3	8	25
175	5.4	313.0	-1.6	311.5	45.7	-1.3	44.4	9	37
182	4.2	318.3	-1.5	317.0	45.7	-1.2	44.2	10	0
1157	4.9	311.4	-1.6	310.9	45.6	-1.3	44.3	10	41
237	4.4	316.3	-0.6	314.9	45.8	-1.2	44.4	11	14
292	5.0	315.9	-1.5	314.5	45.7	-1.2	44.2	12	36
317	3.5	318.9	-1.4	317.5	45.7	-1.2	44.2	13	28
368	3.9	316.4	-1.5	315.1	45.7	-1.2	44.2	14	45
394	4.9	312.0	-1.6	310.5	45.6	-1.3	44.3	15	18
398	5.2	313.6	-1.6	312.1	45.6	-1.3	44.3	15	25
416	2.4	312.6	-1.6	311.2	45.7	-1.3	44.4	15	51
456	3.4	313.6	-1.6	312.1	45.7	-1.3	44.3	17	6
467	5.4	315.6	-1.5	314.2	45.8	-1.3	44.4	17	24
483	1.7	312.0	-1.6	310.5	45.7	-1.3	44.3	17	42
500	5.4	317.8	-1.5	316.5	45.8	-1.2	44.3	18	26
571	3.5	316.3	-1.5	314.9	45.7	-1.2	44.3	20	20
598	4.1	315.7	-1.5	314.3	45.7	-1.2	44.3	20	56
627	4.0	313.1	-1.6	311.6	45.7	-1.3	44.4	21	36
671	3.9	313.2	-1.6	311.7	45.7	-1.3	44.3	22	44
707	4.9	316.9	-1.5	315.4	45.7	-1.2	44.2	23	47

NE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 44	A	LAT 46	LAT 44	B	LAT 46	HRS	MIN
182	4.2	41.7	-0.5	43.0	45.7	1.2	44.3	0	3
1157	4.9	48.5	-0.6	50.1	45.7	1.3	44.4	1	5
237	4.4	43.7	-0.5	45.1	45.7	1.2	44.3	1	22
292	5.0	44.1	-0.5	45.5	45.7	1.2	44.3	2	46
317	3.5	41.1	-0.5	42.5	45.8	1.2	44.3	3	29
368	3.9	43.5	-0.5	44.9	45.7	1.2	44.2	4	54
394	4.8	48.0	-0.6	49.5	45.7	1.3	44.4	5	40
398	5.2	46.3	-0.6	47.8	45.7	1.3	44.4	5	42
416	2.4	47.4	-0.6	48.9	45.6	1.3	44.3	6	11
456	3.4	46.4	-0.6	47.9	45.7	1.3	44.3	7	23
467	5.4	44.5	-0.5	45.9	45.6	1.3	44.2	7	35
483	1.7	48.0	-0.6	49.5	45.7	1.3	44.4	8	4
500	5.4	42.2	-0.5	43.6	45.7	1.2	44.2	8	30
571	3.5	43.7	-0.5	45.1	45.7	1.2	44.3	10	29
598	4.1	44.3	-0.5	45.7	45.7	1.2	44.3	11	7
627	4.9	46.9	-0.6	48.4	45.7	1.3	44.4	11	54
671	3.9	46.8	-0.6	48.3	45.7	1.3	44.4	13	2
707	4.9	43.2	-0.5	44.6	45.8	1.3	44.3	13	54
758	4.3	47.4	-0.6	48.9	45.7	1.3	44.3	15	23
792	4.6	45.9	-0.6	47.4	45.6	1.3	44.3	15	53
1572	4.5	40.8	-0.4	42.1	45.7	1.2	44.2	16	45
836	3.6	45.1	-0.5	46.5	45.6	1.3	44.3	17	17
847	4.0	44.7	-0.5	46.1	45.8	1.3	44.3	17	34
899	4.8	46.1	-0.6	47.5	45.7	1.3	44.4	19	1
2	2.4	43.6	-1.5	45.0	45.8	1.2	44.3	19	12
21	2.5	47.5	-0.6	49.0	45.6	1.3	44.3	19	50
32	2.8	41.4	-0.5	42.7	45.8	1.2	44.3	19	56
48	2.8	42.1	-0.5	43.4	45.8	1.2	44.3	20	26
99	4.0	49.4	-0.6	49.9	45.6	1.3	44.3	22	1
122	4.4	42.5	-0.5	43.8	45.7	1.2	44.3	22	30
175	5.4	47.1	-0.6	48.5	45.7	1.3	44.3	23	56

SW. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 44	A	LAT 46	LAT 44	B	LAT 46	HRS	MIN
1633	4.7	228.1	-3.0	226.6	44.3	-1.3	45.6	1	13
1676	5.2	226.1	-3.0	224.7	44.2	-1.3	45.6	1	13
29	4.6	222.9	-3.1	221.5	44.2	-1.2	45.7	2	42
36	4.5	223.9	-3.1	222.6	44.3	-1.2	45.8	2	59
60	4.5	227.5	-3.0	226.0	44.3	-1.3	45.7	3	50
1058	4.5	226.8	-3.0	225.3	44.4	-1.3	45.7	4	16
85	4.3	225.5	-3.0	224.1	44.3	-1.2	45.7	4	28
98	4.4	230.1	-2.9	228.6	44.4	-1.3	45.7	4	56
1083	4.7	226.9	-3.0	225.5	44.3	-1.3	45.7	5	3
121	3.8	227.3	-3.0	225.8	44.3	-1.3	45.7	5	20
123	3.8	229.2	-2.9	227.7	44.4	-1.3	45.7	5	36
1118	4.3	227.0	-3.0	225.5	44.3	-1.3	45.7	6	10
1134	3.3	221.2	-3.1	219.9	44.2	-1.1	45.7	6	39
1142	5.4	229.6	-2.9	228.1	44.4	-1.3	45.7	7	19
208	4.5	228.6	-3.0	227.1	44.3	-1.3	45.6	7	42
224	3.6	222.7	-3.1	221.3	44.2	-1.2	45.7	7	48
1174	4.5	222.7	-3.1	221.4	44.3	-1.2	45.8	9	26
285	3.1	225.5	-3.0	224.1	44.3	-1.2	45.7	9	27
312	3.8	227.0	-3.0	226.4	44.3	-1.3	45.6	10	22
365	3.8	226.0	-2.9	224.5	44.4	-1.3	45.7	11	50
378	4.9	225.0	-3.0	223.6	44.3	-1.2	45.8	11	59
396	3.9	228.5	-3.0	227.0	44.4	-1.3	45.7	12	40
418	4.7	222.7	-3.0	221.4	44.2	-1.2	45.7	12	59
450	4.2	227.1	-3.0	225.6	44.4	-1.3	45.8	14	9
1329	5.2	224.0	-3.1	222.6	44.3	-1.2	45.8	14	42
1326	5.0	231.0	-2.9	229.4	44.4	-1.4	45.7	14	55
633	4.5	228.5	-3.0	227.0	44.4	-1.3	45.7	19	5
1042	4.3	230.5	-2.9	229.0	44.3	-1.3	45.6	19	6
689	3.7	228.7	-3.0	227.2	44.3	-1.3	45.6	20	15
1484	5.4	227.8	-3.0	226.3	44.4	-1.3	45.7	20	42
1511	4.7	222.6	-3.1	221.3	44.3	-1.2	45.9	21	27
745	0.9	226.8	-3.0	225.4	44.3	-1.3	45.7	21	54
772	5.2	230.0	-2.9	228.5	44.4	-1.3	45.6	22	52
1555	4.8	230.3	-2.9	228.8	44.4	-1.3	45.7	23	22
915	2.5	229.5	-2.9	228.1	44.4	-1.3	45.7	23	54

SE. QUADRANT

CATNO	MAG	AZIMUTH			Z.D			L.S.T	
		LAT 44	A	LAT 46	LAT 44	B	LAT 46	HRS	MIN
1058	4.5	133.3	-3.0	134.7	44.3	1.3	45.7	0	9
95	4.3	134.4	-3.0	135.8	44.3	1.2	45.7	0	26
98	4.4	129.9	-2.9	131.5	44.3	1.3	45.6	0	32
1093	4.7	133.0	-3.0	134.5	44.4	1.3	45.7	0	54
123	3.8	130.8	-2.9	132.2	44.4	1.3	45.7	1	16
121	3.8	132.9	-3.0	134.3	44.3	1.3	45.6	1	19
1118	4.3	133.1	-3.0	134.5	44.3	1.3	45.7	2	10
1142	5.4	130.6	-2.9	132.1	44.3	1.3	45.6	2	58
1134	3.3	138.6	-3.1	139.9	44.3	1.2	45.8	2	58
208	4.5	131.3	-2.9	132.8	44.4	1.3	45.7	3	25
224	0.6	137.3	-3.1	138.6	44.3	1.2	45.7	4	0
1174	4.5	137.4	-3.1	138.7	44.3	1.2	45.8	4	38
285	3.1	134.5	-3.0	135.9	44.3	1.2	45.7	5	25
312	3.8	131.9	-3.0	133.3	44.4	1.3	45.7	6	8
365	3.8	129.9	-2.9	131.4	44.4	1.3	45.7	7	28
378	4.9	135.2	-3.0	136.6	44.2	1.2	45.7	8	0
396	3.9	131.6	-3.0	133.1	44.3	1.3	45.6	8	24
418	4.7	137.3	-3.1	138.6	44.2	1.2	45.7	9	10
450	4.2	133.1	-3.0	134.6	44.3	1.3	45.7	10	3
1326	5.0	129.1	-2.9	130.6	44.4	1.4	45.6	10	27
1329	5.2	136.2	-3.1	137.6	44.2	1.2	45.7	11	48
1442	4.3	129.5	-2.9	131.0	44.4	1.3	45.7	14	40
633	4.5	131.7	-3.0	133.1	44.3	1.3	45.6	14	49
680	3.7	131.0	-2.9	132.5	44.4	1.3	45.7	15	57
1484	5.4	132.2	-3.0	133.7	44.4	1.3	45.7	16	29
1511	4.7	137.3	-3.1	138.6	44.3	1.2	45.8	17	39
745	0.9	133.3	-3.0	134.7	44.3	1.3	45.7	17	46
772	5.2	129.9	-2.9	131.4	44.4	1.3	45.7	18	26
1555	4.8	129.8	-2.9	131.3	44.4	1.3	45.7	18	57
815	2.5	130.6	-2.9	132.1	44.3	1.3	45.6	19	33
1603	4.7	131.9	-3.0	133.4	44.3	1.3	45.6	20	59
1606	5.2	133.8	-3.0	135.2	44.3	1.3	45.7	21	8
28	4.6	137.0	-3.1	138.4	44.3	1.2			

NW. QUADRANT

Table with columns: CATNO MAG, AZIMUTH (LAT 46 A, LAT 48 B), Z.D, L.S.T (HRS MIN). Rows include data points like 758 4.3 311.8 -0.7 310.3 45.7 -1.3 44.3 1 13.

NE. QUADRANT

Table with columns: CATNO MAG, AZIMUTH (LAT 46 A, LAT 48 B), Z.D, L.S.T (HRS MIN). Rows include data points like 237 4.4 44.5 -0.6 45.9 45.7 1.2 44.3 1 11.

SW. QUADRANT

Table with columns: CATNO MAG, AZIMUTH (LAT 46 A, LAT 48 B), Z.D, L.S.T (HRS MIN). Rows include data points like 855 3.6 227.5 -3.0 226.0 44.4 -1.2 45.7 0 47.

SE. QUADRANT

Table with columns: CATNO MAG, AZIMUTH (LAT 46 A, LAT 48 B), Z.D, L.S.T (HRS MIN). Rows include data points like 1058 4.5 138.4 -3.1 139.7 44.3 1.1 45.8 0 20.

NW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 48	A LAT 50	LAT 48	B LAT 50	HRS	MIN		
707	4.9	315.5	-0.7	314.0	45.7	-1.2	44.3	0	11
758	4.3	311.1	-0.8	309.5	45.6	-1.3	44.3	1	23
782	4.6	312.7	-0.8	311.2	45.7	-1.2	44.4	1	59
783	3.6	319.2	-0.7	317.8	45.8	-1.1	44.3	2	14
903	2.6	320.3	-0.6	315.0	45.8	-1.1	44.3	2	50
1572	4.5	318.0	-0.7	316.7	45.7	-1.1	44.3	3	11
936	3.6	313.5	-0.8	312.1	45.7	-1.2	44.3	3	26
947	4.0	313.9	-0.8	312.4	45.7	-1.2	44.3	3	45
992	5.2	319.7	-0.6	318.4	45.7	-1.1	44.2	4	54
999	4.8	312.5	-0.8	311.0	45.7	-1.2	44.4	5	7
2	2.4	315.0	-0.7	313.5	45.7	-1.2	44.3	5	27
32	2.8	317.4	-0.7	316.0	45.7	-1.1	44.3	6	20
48	2.8	316.6	-0.7	315.2	45.7	-1.1	44.2	6	47
122	4.4	316.2	-0.7	314.8	45.7	-1.1	44.2	8	49
175	5.4	311.4	-0.8	309.9	45.6	-1.2	44.3	9	57
182	4.2	317.1	-0.7	315.7	45.8	-1.1	44.3	10	26
237	4.4	315.0	-0.7	313.5	45.7	-1.2	44.3	11	37
292	5.0	314.5	-0.8	313.0	45.7	-1.2	44.3	12	59
317	3.5	317.7	-0.7	316.3	45.8	-1.1	44.3	13	54
368	3.9	315.1	-0.7	313.7	45.7	-1.2	44.3	15	9
399	5.2	312.2	-0.8	310.7	45.7	-1.2	44.4	15	47
417	2.8	319.3	-0.7	318.0	45.8	-1.1	44.3	16	32
456	3.4	312.1	-0.8	310.6	45.7	-1.2	44.3	17	27
467	5.4	314.2	-0.9	312.7	45.7	-1.2	44.3	17	46
509	5.4	316.5	-0.7	315.1	45.7	-1.1	44.2	18	50
571	3.5	315.0	-0.7	313.6	45.8	-1.2	44.4	20	44
599	4.1	314.3	-0.8	312.9	45.7	-1.2	44.3	21	19
627	4.5	311.5	-0.8	310.0	45.6	-1.2	44.3	21	56
671	3.9	311.7	-0.8	310.2	45.7	-1.2	44.4	23	5

NE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 48	A LAT 50	LAT 48	B LAT 50	HRS	MIN		
237	4.4	45.1	-0.7	46.5	45.7	1.2	44.3	0	59
292	5.0	45.4	-0.8	46.9	45.7	1.2	44.3	2	23
317	3.5	42.3	-0.7	43.7	45.8	1.1	44.3	3	3
368	3.9	44.9	-0.7	46.3	45.7	1.2	44.3	4	31
398	5.2	47.9	-0.8	49.4	45.7	1.2	44.4	5	21
417	2.0	47.7	-0.7	42.0	45.8	1.1	44.3	5	32
456	3.4	47.9	-0.8	49.4	45.6	1.2	44.3	7	2
467	5.4	45.8	-0.8	47.3	45.7	1.2	44.3	7	12
500	5.4	43.5	-0.7	44.9	45.7	1.1	44.3	8	5
571	3.5	45.0	-0.7	46.4	45.8	1.2	44.4	10	5
599	4.1	45.7	-0.8	47.1	45.7	1.2	44.3	10	44
627	4.9	48.4	-0.8	49.9	45.7	1.2	44.4	11	33
671	3.9	48.4	-0.9	49.9	45.6	1.2	44.3	12	42
707	4.0	44.5	-0.7	46.0	45.7	1.2	44.3	13	31
758	4.3	49.3	-0.8	50.5	45.6	1.3	44.3	15	3
783	3.6	41.9	-0.7	42.2	45.8	1.1	44.3	15	16
782	4.6	47.4	-0.8	48.9	45.7	1.2	44.3	15	31
803	2.6	39.9	-0.6	41.1	45.7	1.1	44.2	15	47
1572	4.5	42.0	-0.7	43.4	45.7	1.1	44.2	16	19
836	3.6	46.4	-0.8	47.9	45.7	1.2	44.4	16	54
847	4.0	46.1	-0.8	47.6	45.7	1.2	44.3	17	12
892	5.2	48.3	-0.6	41.6	45.7	1.1	44.2	17	54
899	4.9	47.6	-0.8	49.1	45.7	1.2	44.3	18	48
2	2.4	45.1	-0.7	46.5	45.7	1.2	44.3	19	49
32	2.8	42.6	-0.7	44.0	45.7	1.1	44.3	19	31
48	2.8	43.4	-0.7	44.8	45.7	1.1	44.2	20	2
122	4.4	43.7	-0.7	45.1	45.8	1.1	44.3	22	5
175	5.4	49.6	-0.8	50.1	45.7	1.2	44.4	23	55
182	4.2	42.9	-0.7	44.3	45.7	1.1	44.2	23	39

SW. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 48	A LAT 50	LAT 48	B LAT 50	HRS	MIN		
943	4.9	226.4	-3.0	224.9	44.3	-1.2	45.7	1	25
955	3.6	222.0	-3.1	220.7	44.2	-1.1	45.7	1	34
985	4.7	229.1	-3.0	226.6	44.3	-1.2	45.7	1	37
1625	5.4	222.4	-3.1	221.1	44.2	-1.1	45.7	1	46
125	4.3	228.7	-3.0	227.2	44.3	-1.2	45.7	5	49
157	4.5	227.5	-3.0	226.1	44.4	-1.2	45.7	6	7
1169	5.1	226.9	-3.0	225.4	44.3	-1.2	45.7	8	21
256	3.4	228.9	-3.0	227.4	44.4	-1.2	45.7	9	55
1123	4.9	226.3	-3.1	224.9	44.3	-1.2	45.7	9	33
1211	5.3	222.5	-3.1	221.2	44.3	-1.1	45.8	9	40
1233	5.1	222.3	-3.1	221.0	44.3	-1.1	45.8	11	1
337	4.3	226.0	-3.1	224.6	44.3	-1.2	45.7	11	1
1246	5.1	224.2	-3.1	222.9	44.3	-1.1	45.7	11	30
785	1.3	226.4	-3.1	225.0	44.3	-1.2	45.7	12	12
409	5.3	221.8	-3.1	220.5	44.2	-1.1	45.7	12	41
488	3.0	223.3	-3.1	221.9	44.3	-1.1	45.8	14	58
1372	5.3	229.3	-3.0	227.8	44.3	-1.2	45.6	16	30
635	4.9	223.4	-3.0	222.0	44.3	-1.2	45.7	19	14
656	2.1	227.8	-3.0	226.3	44.3	-1.2	45.7	19	42
725	5.1	224.7	-3.1	223.3	44.2	-1.1	45.7	21	17
1573	5.2	225.8	-3.0	224.4	44.3	-1.2	45.7	21	27
741	2.8	221.7	-3.1	220.4	44.3	-1.1	45.8	21	39
768	4.0	223.7	-3.1	222.3	44.2	-1.1	45.7	22	30

SE. QUADRANT

CATNO	MAG	AZIMUTH		Z. D		L. S. T			
		LAT 48	A LAT 50	LAT 48	B LAT 50	HRS	MIN		
125	4.3	131.2	-3.0	132.7	44.4	1.2	45.7	1	19
150	4.7	132.5	-3.0	133.9	44.4	1.2	45.7	1	52
1169	5.1	132.9	-3.0	130.4	44.4	1.2	45.7	4	9
256	3.4	131.3	-3.1	132.8	44.3	1.2	45.6	4	34
1193	4.9	132.6	-3.0	135.1	44.4	1.2	45.8	5	24
1201	5.3	137.7	-3.1	139.3	44.2	1.1	45.7	5	51
337	4.3	134.1	-3.0	135.5	44.3	1.2	45.7	6	54
1238	5.1	137.9	-3.1	139.2	44.2	1.1	45.7	7	33
1246	5.1	135.8	-3.1	137.2	44.2	1.1	45.7	7	32
389	1.3	133.7	-3.0	135.1	44.3	1.2	45.7	8	3
409	5.3	133.1	-3.1	139.4	44.2	1.1	45.8	8	55
488	3.0	136.9	-3.1	138.3	44.2	1.1	45.7	11	5
1372	5.3	131.6	-3.0	132.1	44.4	1.2	45.7	12	6
635	4.9	131.7	-3.0	133.1	44.3	1.2	45.7	14	55
656	2.1	132.2	-3.0	133.7	44.3	1.2	45.7	15	26
725	5.1	135.1	-3.1	136.5	44.3	1.1	45.8	17	16
1573	5.2	134.2	-3.0	135.6	44.3	1.2	45.7	17	21
741	2.8	138.4	-3.1	139.8	44.2	1.1	45.7	17	53
768	4.0	136.1	-3.1	137.5	44.3	1.1	45.8	18	34
843	4.9	133.6	-3.0	135.0	44.3	1.2	45.7	20	16
855	3.6	139.4	-3.1	139.3	44.2	1.1	45.7	20	47
995	4.7	131.8	-3.0	133.3	44.4	1.2	45.7	21	19
1625	5.4	137.5	-3.1	138.9	44.2	1.1	45.7	21	57

NW. QUADRANT

CATNO	MAG	AZIMUTH			% D		L.S.T	
		LAT 50	A	LAT 52	LAT 50	B	LAT 52	HRS MIN
707	4.9	315.0	-0.8	313.6	45.7	-1.1	44.3	0 23
782	4.6	312.1	-0.9	310.6	45.7	-1.2	44.4	2 10
783	3.6	318.8	-0.8	317.5	45.8	-1.0	44.3	2 28
803	2.6	320.0	-0.8	318.7	45.8	-1.0	44.2	3 4
1572	4.5	317.6	-0.8	316.3	45.7	-1.1	44.2	3 24
836	3.6	313.0	-0.9	311.5	45.6	-1.2	44.3	3 37
930	5.4	320.2	-0.7	318.9	45.7	-1.0	44.2	3 51
847	4.0	313.4	-0.9	311.9	45.7	-1.2	44.4	3 57
882	5.2	319.4	-0.8	318.1	45.7	-1.0	44.2	5 8
899	4.8	311.9	-0.9	310.4	45.7	-1.2	44.4	5 18
2	2.4	314.5	-0.9	313.0	45.7	-1.1	44.3	5 39
16	4.2	320.4	-0.7	319.2	45.7	-1.0	44.2	6 19
32	2.8	317.0	-0.8	315.6	45.7	-1.1	44.3	6 33
48	2.8	316.2	-0.8	314.8	45.7	-1.1	44.3	7 0
122	4.4	315.8	-0.8	314.4	45.7	-1.1	44.3	9 2
182	4.2	316.7	-0.8	315.3	45.8	-1.1	44.3	10 39
237	4.4	314.5	-0.9	313.0	45.7	-1.1	44.3	11 49
292	5.0	314.0	-0.9	312.6	45.7	-1.1	44.3	13 11
317	3.5	317.3	-0.8	315.9	45.7	-1.1	44.3	14 7
368	3.9	314.6	-0.9	313.2	45.7	-1.1	44.3	15 21
298	5.2	311.5	-0.9	310.0	45.6	-1.2	44.3	15 57
417	2.0	319.0	-0.8	317.7	45.8	-1.0	44.3	16 46
456	3.4	311.5	-0.9	310.0	45.7	-1.2	44.4	17 38
467	5.4	313.7	-0.9	312.2	45.7	-1.2	44.3	17 58
500	5.4	316.1	-0.8	314.7	45.7	-1.1	44.3	19 3
571	3.5	314.5	-0.9	313.1	45.7	-1.1	44.4	20 56
598	4.1	313.8	-0.9	312.4	45.7	-1.1	44.3	21 31
587	5.1	320.2	-0.7	318.9	45.8	-1.0	44.2	21 33
671	3.9	311.1	-0.9	309.6	45.7	-1.2	44.4	23 16

NE. QUADRANT

CATNO	MAG	AZIMUTH			% D		L.S.T	
		LAT 50	A	LAT 52	LAT 50	B	LAT 52	HRS MIN
237	4.4	45.5	-0.9	47.0	45.7	1.1	44.3	0 47
292	5.0	45.9	-0.9	47.4	45.7	1.1	44.4	2 11
317	3.5	42.7	-0.8	44.1	45.7	1.1	44.3	2 50
368	3.9	45.3	-0.9	46.8	45.7	1.1	44.3	4 18
398	5.2	48.4	-0.9	49.9	45.7	1.2	44.4	5 10
417	2.0	41.0	-0.8	42.3	45.8	1.0	44.3	5 19
456	3.4	48.5	-0.9	50.0	45.7	1.2	44.4	6 51
467	5.4	46.3	-0.9	47.6	45.7	1.2	44.3	7 0
500	5.4	43.9	-0.8	45.3	45.8	1.1	44.3	7 52
571	3.5	45.5	-0.9	46.9	45.7	1.1	44.4	9 53
587	5.1	39.8	-0.7	41.1	45.7	1.0	44.2	10 0
598	4.1	46.1	-0.9	47.6	45.7	1.1	44.3	10 32
671	3.9	48.9	-0.8	50.5	45.6	1.2	44.3	12 31
707	4.9	44.9	-0.8	46.4	45.8	1.1	44.4	13 18
783	3.6	41.2	-0.8	42.5	45.8	1.0	44.3	15 2
782	4.6	47.9	-0.9	49.4	45.7	1.2	44.3	15 20
803	2.6	40.0	-0.8	41.3	45.8	1.0	44.3	15 32
1572	4.5	42.3	-0.8	43.7	45.8	1.1	44.3	16 5
836	5.4	39.8	-0.7	41.1	45.7	1.0	44.2	16 16
836	3.6	47.0	-0.9	48.5	45.7	1.2	44.3	16 43
847	4.0	46.6	-0.9	48.1	45.7	1.2	44.4	17 0
882	5.2	40.5	-0.8	41.8	45.8	1.0	44.3	17 39
899	4.8	48.1	-0.9	49.6	45.7	1.2	44.3	18 29
2	2.4	45.5	-0.9	46.9	45.7	1.1	44.3	18 37
16	4.2	39.5	-0.7	40.8	45.8	1.0	44.3	18 44
32	2.8	43.0	-0.8	44.4	45.7	1.1	44.3	19 19
48	2.8	43.8	-0.8	45.2	45.7	1.1	44.3	19 49
122	4.4	44.2	-0.8	45.6	45.7	1.1	44.3	21 53
182	4.2	43.3	-0.8	44.7	45.7	1.1	44.3	23 25

SW. QUADRANT

CATNO	MAG	AZIMUTH			% D		L.S.T	
		LAT 50	A	LAT 52	LAT 50	B	LAT 52	HRS MIN
871	2.6	230.2	-3.0	228.7	44.3	-1.2	45.6	1 19
895	4.7	222.6	-3.1	221.3	44.2	-1.1	45.7	1 24
7	2.9	230.1	-3.0	228.6	44.3	-1.2	45.6	2 27
53	3.7	230.7	-3.0	229.0	44.4	-1.2	45.7	3 47
170	5.5	231.0	-3.0	228.5	44.3	-1.2	45.7	5 5
125	4.3	223.5	-3.1	222.2	44.3	-1.1	45.8	5 28
150	4.0	222.1	-3.1	220.7	44.3	-1.0	45.8	5 54
1125	4.8	229.4	-3.0	227.9	44.4	-1.2	45.7	6 46
1136	5.2	227.6	-3.0	226.2	44.3	-1.1	45.7	7 1
1169	5.1	221.4	-3.1	220.1	44.2	-1.0	45.7	8 8
232	4.4	229.2	-3.0	227.7	44.3	-1.2	45.6	9 19
256	3.4	223.7	-3.1	222.4	44.3	-1.1	45.8	9 43
444	2.2	229.0	-3.0	227.5	44.3	-1.2	45.6	14 0
1349	5.2	226.8	-3.0	225.3	44.3	-1.1	45.7	15 34
1372	5.3	224.1	-3.1	222.7	44.3	-1.1	45.7	16 19
613	4.5	227.2	-3.0	225.7	44.3	-1.1	45.7	18 32
635	4.9	223.2	-3.1	221.9	44.3	-1.1	45.8	19 2
656	2.1	222.3	-3.1	221.0	44.2	-1.0	45.7	19 29
716	3.0	226.4	-3.0	225.1	44.3	-1.1	45.7	21 10
712	4.2	230.2	-3.0	228.7	44.4	-1.2	45.7	21 14
1526	5.0	220.4	-3.0	228.9	44.4	-1.2	45.7	22 29
778	4.5	229.9	-3.0	228.4	44.3	-1.2	45.6	22 57

SE. QUADRANT

CATNO	MAG	AZIMUTH			% D		L.S.T	
		LAT 50	A	LAT 52	LAT 50	B	LAT 52	HRS MIN
1079	5.5	130.1	-3.0	131.6	44.3	1.2	45.6	0 36
125	4.3	126.6	-3.1	128.0	44.2	1.1	45.7	1 32
150	4.0	137.9	-3.1	139.2	44.3	1.0	45.8	2 5
1125	4.8	130.7	-3.0	132.2	44.3	1.2	45.6	2 20
1136	5.2	132.4	-3.0	133.9	44.3	1.1	45.6	2 43
232	4.4	130.5	-3.0	132.0	44.4	1.2	45.7	3 53
1169	5.1	128.4	-3.1	129.7	44.3	1.0	45.8	4 22
256	3.4	136.5	-3.1	137.8	44.2	1.1	45.7	4 46
444	2.2	131.0	-3.0	132.5	44.3	1.2	45.6	9 26
1349	5.2	133.3	-3.0	134.7	44.3	1.1	45.7	11 21
1372	5.3	135.7	-3.1	137.1	44.3	1.1	45.8	12 18
613	4.5	132.8	-3.0	134.3	44.3	1.1	45.7	14 17
635	4.9	136.8	-3.1	138.1	44.3	1.1	45.8	15 7
656	2.1	137.7	-3.1	139.0	44.2	1.0	45.7	15 29
712	4.2	130.0	-3.0	131.5	44.3	1.2	45.6	16 44
716	3.0	133.6	-3.0	135.0	44.3	1.1	45.7	16 59
1526	5.0	129.7	-3.0	131.2	44.3	1.2	45.6	17 58
778	4.5	130.1	-3.0	131.6	44.3	1.2	45.6	18 28
871	2.6	129.6	-3.1	131.1	44.4	1.2	45.7	20 48
885	4.7	137.3	-3.1	138.6	44.3	1.1	45.7	21 32
7	2.9	129.9	-3.0	131.3	44.4	1.2	45.7	21 57
50	3.7	129.3	-3.0	130.8	44.4	1.2	45.7	23 14

NW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH, Z.D., L.S.T. Sub-headers: AZIMUTH (LAT 52, A, LAT 54), Z.D. (LAT 52, B, LAT 54), L.S.T. (HRS, MIN). Rows include star data like 707, 782, 767, 783, 963, 1572, etc.

NE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH, Z.D., L.S.T. Sub-headers: AZIMUTH (LAT 52, A, LAT 54), Z.D. (LAT 52, B, LAT 54), L.S.T. (HRS, MIN). Rows include star data like 237, 292, 317, 368, 398, etc.

SW. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH, Z.D., L.S.T. Sub-headers: AZIMUTH (LAT 52, A, LAT 54), Z.D. (LAT 52, B, LAT 54), L.S.T. (HRS, MIN). Rows include star data like 871, 7, 1020, 50, etc.

SE. QUADRANT

Table with columns: CATNO, MAG, AZIMUTH, Z.D., L.S.T. Sub-headers: AZIMUTH (LAT 52, A, LAT 54), Z.D. (LAT 52, B, LAT 54), L.S.T. (HRS, MIN). Rows include star data like 1079, 159, 168, 1125, etc.

NW. QUADRANT

CATNO	MAG	AZIMUTH				% D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
707	4.9	314.6	-1.1	313.1	45.7	-1.0	44.3	0	49
782	4.6	311.4	-1.1	309.9	45.7	-1.1	44.4	2	33
783	3.6	318.7	-1.0	317.4	45.7	-1.0	44.2	2	57
803	2.6	320.0	-1.0	318.7	45.8	-0.9	44.2	3	35
1572	4.5	317.5	-1.0	316.1	45.8	-1.0	44.3	3	53
836	3.6	312.4	-1.1	310.9	45.6	-1.1	44.3	4	1
847	4.0	312.8	-1.1	311.3	45.7	-1.1	44.4	4	21
830	5.4	320.3	-1.0	319.0	45.7	-0.9	44.2	4	22
882	5.2	319.5	-1.0	318.1	45.8	-0.9	44.3	5	39
899	4.8	311.2	-1.1	309.7	45.7	-1.1	44.4	5	41
2	2.4	314.0	-1.1	312.5	45.6	-1.0	44.3	6	4
32	2.8	316.8	-1.0	315.4	45.7	-1.0	44.3	7	1
48	2.8	315.9	-1.0	314.5	45.7	-1.0	44.3	7	27
122	4.4	315.5	-1.0	314.1	45.8	-1.0	44.3	9	29
182	4.2	316.4	-1.0	315.0	45.7	-1.0	44.3	11	6
237	4.4	314.0	-1.1	312.5	45.7	-1.0	44.3	12	14
292	5.0	313.5	-1.1	312.1	45.7	-1.1	44.3	13	36
317	3.5	317.0	-1.0	315.7	45.7	-1.0	44.3	14	35
368	3.0	314.2	-1.1	312.7	45.6	-1.0	44.3	15	46
398	5.2	317.8	-1.1	316.3	45.6	-1.1	44.3	16	20
417	2.0	318.9	-1.0	317.5	45.7	-1.0	44.2	17	15
467	5.4	313.1	-1.1	311.6	45.6	-1.1	44.3	18	22
500	5.4	315.8	-1.0	314.4	45.7	-1.0	44.3	19	30
571	3.5	314.1	-1.1	312.6	45.7	-1.0	44.3	21	21
598	4.1	313.4	-1.1	311.9	45.7	-1.1	44.4	21	56
597	5.1	320.3	-1.0	319.0	45.7	-0.9	44.2	22	4

NE. QUADRANT

CATNO	MAG	AZIMUTH				% D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
237	4.4	46.0	-1.1	47.5	45.6	1.0	44.3	0	22
292	5.0	46.5	-1.1	48.0	45.6	1.1	44.3	1	47
317	3.5	42.9	-1.0	44.3	45.7	1.0	44.3	2	22
368	3.9	45.8	-1.1	47.3	45.7	1.0	44.3	3	53
398	5.2	49.2	-1.1	50.7	45.6	1.1	44.3	4	48
417	2.0	41.1	-1.0	42.5	45.7	1.0	44.2	4	50
467	5.4	46.9	-1.1	48.4	45.6	1.1	44.3	6	36
500	5.4	44.3	-1.0	45.7	45.7	1.0	44.3	7	26
571	3.5	46.0	-1.1	47.4	45.7	1.0	44.3	9	28
587	5.1	39.7	-1.0	41.0	45.8	0.9	44.3	9	28
598	4.1	46.6	-1.1	48.1	45.7	1.0	44.4	10	7
707	4.9	45.4	-1.1	46.9	45.7	1.0	44.3	12	53
783	3.6	41.3	-1.0	42.6	45.7	1.0	44.2	14	33
782	4.6	48.6	-1.1	50.1	45.6	1.1	44.3	14	57
803	2.6	40.0	-1.0	41.3	45.8	0.9	44.3	15	1
1572	4.5	42.5	-1.0	43.9	45.7	1.0	44.3	15	37
830	5.4	39.6	-1.0	40.9	45.8	0.9	44.3	15	46
836	3.6	47.6	-1.1	49.1	45.7	1.0	44.3	16	19
847	4.0	47.2	-1.1	48.7	45.7	1.1	44.3	16	36
882	5.2	40.6	-1.0	41.9	45.8	0.9	44.3	17	9
899	4.8	48.8	-1.1	50.3	45.7	1.1	44.4	18	6
2	2.4	46.0	-1.1	47.4	45.7	1.0	44.3	18	12
32	2.8	43.2	-1.0	44.6	45.7	1.0	44.3	18	50
48	2.8	44.1	-1.0	45.5	45.7	1.0	44.3	19	22
122	4.4	44.5	-1.0	45.9	45.7	1.0	44.3	21	26
182	4.2	43.6	-1.0	44.9	45.8	1.0	44.3	22	57

SW. QUADRANT

CATNO	MAG	AZIMUTH				% D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
1620	5.2	225.0	-3.1	223.6	44.2	-1.0	45.7	2	52
162	3.9	227.3	-3.0	225.8	44.3	-1.0	45.7	6	32
168	1.1	223.0	-3.1	221.5	44.3	-1.0	45.7	6	36
1148	5.3	228.7	-3.0	227.2	44.3	-1.1	45.6	7	43
218	5.5	228.2	-3.0	226.7	44.4	-1.1	45.7	7	59
251	1.9	223.6	-3.1	222.2	44.2	-1.0	45.7	8	37
1188	5.3	223.0	-3.1	221.6	44.3	-1.0	45.8	9	11
277	3.7	224.2	-3.1	222.8	44.3	-1.0	45.7	9	19
1200	5.0	220.7	-3.0	219.1	44.3	-1.1	45.6	11	4
326	4.2	229.7	-3.0	228.2	44.3	-1.1	45.6	11	0
379	3.6	225.2	-3.1	223.8	44.3	-1.0	45.7	12	11
473	5.2	223.6	-3.0	222.0	44.4	-1.1	45.7	14	53
513	4.5	227.5	-3.0	226.0	44.3	-1.0	45.7	15	57
513	2.8	220.7	-3.0	219.2	44.4	-1.1	45.7	16	13
584	4.3	229.6	-3.0	228.1	44.3	-1.1	45.6	18	4
1421	5.3	226.0	-3.1	224.6	44.3	-1.0	45.7	18	14
1454	5.2	229.3	-3.0	227.8	44.4	-1.1	45.7	19	35
1460	4.7	224.0	-3.1	222.5	44.3	-1.0	45.7	21	3
1491	4.4	229.4	-3.0	227.9	44.3	-1.1	45.6	21	2
1513	4.5	227.1	-3.0	225.7	44.3	-1.0	45.7	21	50
743	3.8	220.5	-3.0	218.9	44.3	-1.1	45.6	22	5
774	3.9	221.7	-3.1	220.3	44.3	-0.9	45.8	22	34
1541	4.5	222.4	-3.1	221.1	44.3	-1.0	45.7	22	43

SE. QUADRANT

CATNO	MAG	AZIMUTH				% D		L.S.T	
		LAT 54	A	LAT 56	LAT 54	B	LAT 56	HRS	MIN
162	3.9	132.5	-3.0	134.0	44.4	1.0	45.7	2	11
168	1.1	136.3	-3.1	137.6	44.2	1.0	45.7	2	34
1148	5.3	131.3	-3.0	132.8	44.3	1.1	45.6	3	12
218	5.5	131.9	-3.1	133.4	44.3	1.1	45.7	3	34
251	1.9	136.4	-3.1	137.7	44.3	1.0	45.7	4	36
1188	5.3	137.2	-3.1	138.6	44.2	1.0	45.7	5	14
277	3.7	135.8	-3.1	137.2	44.3	1.0	45.7	5	15
1200	5.0	129.4	-3.0	130.9	44.3	1.1	45.6	5	26
326	4.2	130.3	-3.0	131.8	44.3	1.1	45.7	6	27
379	3.6	134.6	-3.1	136.0	44.3	1.0	45.8	8	1
473	5.2	129.4	-3.0	130.9	44.4	1.1	45.7	10	15
513	2.8	129.5	-3.0	131.0	44.4	1.1	45.6	11	25
507	4.5	132.3	-3.0	133.8	44.4	1.0	45.7	11	35
584	4.3	130.2	-3.0	131.7	44.4	1.1	45.7	12	31
1421	5.3	133.9	-3.1	135.3	44.3	1.0	45.7	14	0
1454	5.2	130.7	-3.0	132.2	44.4	1.1	45.7	15	4
1469	4.7	135.0	-3.1	136.4	44.3	1.0	45.8	15	55
1491	4.4	130.5	-3.0	132.0	44.4	1.1	45.7	16	30
743	3.8	129.6	-3.0	131.1	44.3	1.1	45.6	17	28
1513	4.5	132.8	-3.0	134.2	44.3	1.0	45.7	17	30
774	3.9	138.2	-3.1	139.5	44.3	0.9	45.8	18	43
1541	4.5	137.5	-3.1	138.8	44.3	1.0	45.8	18	48
1020	5.2	134.7	-3.1	136.1	44.3	1.0	45.6	22	43

NW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
707	4.9	314.7	-1.2	313.3	45.7	-1.0	44.3	1	3
782	4.6	311.3	-1.2	309.8	45.6	-1.0	44.3	2	45
783	3.6	319.0	-1.1	317.7	45.7	-0.9	44.2	3	13
1572	4.5	317.7	-1.1	316.3	45.7	-0.9	44.3	4	8
836	3.6	312.4	-1.2	310.9	45.7	-1.0	44.3	4	14
847	4.0	312.8	-1.2	311.3	45.7	-1.0	44.4	4	34
899	4.8	311.1	-1.2	309.6	45.7	-1.0	44.4	5	53
882	5.2	319.8	-1.1	318.5	45.7	-0.9	44.2	5	55
2	2.4	314.1	-1.2	312.6	45.7	-1.0	44.3	6	18
32	2.8	317.0	-1.1	315.6	45.7	-0.9	44.3	7	16
49	2.8	316.1	-1.1	314.7	45.8	-1.0	44.3	7	42
122	4.4	315.6	-1.1	314.2	45.7	-1.0	44.3	9	43
182	4.2	316.6	-1.1	315.2	45.8	-0.9	44.3	11	21
277	4.4	314.1	-1.2	312.6	45.7	-1.0	44.4	12	28
292	5.0	313.5	-1.2	312.1	45.6	-1.0	44.3	13	49
317	3.5	317.3	-1.1	315.9	45.7	-0.9	44.3	14	50
368	3.9	314.3	-1.2	312.8	45.7	-1.0	44.3	16	0
417	2.0	319.3	-1.1	318.0	45.8	-0.9	44.3	17	32
467	5.4	313.2	-1.2	311.7	45.7	-1.0	44.4	18	36
570	5.4	315.9	-1.1	314.5	45.7	-1.0	44.3	19	44
571	3.5	314.0	-1.2	312.6	45.7	-1.0	44.3	21	34
598	4.1	313.4	-1.2	311.9	45.7	-1.0	44.4	22	9

NE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
237	4.4	45.9	-1.2	47.4	45.7	1.0	44.3	0	8
292	5.0	46.4	-1.2	47.9	45.7	1.0	44.3	1	33
317	3.5	42.7	-1.1	44.1	45.7	0.9	44.3	2	7
368	3.9	45.7	-1.2	47.2	45.7	1.0	44.3	3	39
417	2.0	40.7	-1.1	42.0	45.8	0.9	44.3	4	33
467	5.4	46.9	-1.2	48.4	45.6	1.0	44.3	6	23
500	5.4	44.1	-1.1	45.5	45.7	1.0	44.3	7	11
571	3.5	46.0	-1.2	47.4	45.7	1.0	44.3	9	15
598	4.1	46.6	-1.2	48.1	45.7	1.0	44.4	9	54
707	4.9	45.3	-1.2	46.8	45.7	1.0	44.3	12	39
783	3.6	41.0	-1.1	42.3	45.7	0.9	44.2	14	17
782	4.6	48.7	-1.2	50.3	45.6	1.0	44.3	14	45
1572	4.5	42.3	-1.1	43.7	45.7	0.9	44.2	15	22
836	3.6	47.6	-1.2	49.1	45.7	1.0	44.4	16	6
847	4.0	47.2	-1.2	48.7	45.7	1.0	44.4	16	23
882	5.2	40.2	-1.1	41.5	45.7	0.9	44.2	16	53
899	4.8	48.9	-1.2	50.4	45.6	1.0	44.3	17	54
2	2.4	45.9	-1.2	47.3	45.7	1.0	44.3	17	58
32	2.8	43.0	-1.1	44.4	45.7	0.9	44.3	18	35
48	2.8	43.9	-1.1	45.3	45.8	1.0	44.3	19	7
122	4.4	44.4	-1.1	45.8	45.7	1.0	44.3	21	12
182	4.2	43.4	-1.1	44.8	45.7	0.9	44.3	22	43

SW. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
898	5.2	226.8	-3.0	225.4	44.3	-1.0	45.7	2	2
1674	4.9	230.5	-3.0	229.0	44.4	-1.0	45.7	2	34
114	4.5	229.1	-3.0	227.6	44.4	-1.0	45.7	5	27
164	3.6	227.2	-3.0	225.9	44.3	-1.0	45.7	6	39
1135	5.1	226.2	-3.0	224.8	44.3	-1.0	45.7	6	59
1148	5.3	223.0	-3.1	221.6	44.3	-0.9	45.7	7	26
219	5.5	222.1	-3.1	220.8	44.3	-0.9	45.8	7	44
1270	5.0	225.2	-3.1	223.8	44.3	-1.0	45.7	9	51
326	4.2	223.0	-3.1	222.5	44.2	-0.9	45.7	10	46
473	5.2	224.8	-3.1	223.4	44.2	-0.9	45.7	14	30
513	2.8	224.0	-3.1	223.5	44.3	-0.9	45.7	15	59
526	0.2	227.8	-3.0	226.4	44.4	-1.0	45.7	16	28
1378	5.4	227.9	-3.1	226.5	44.4	-1.0	45.7	16	39
584	4.3	223.8	-3.1	222.4	44.2	-0.9	45.7	17	50
699	3.8	227.4	-3.0	225.9	44.3	-1.0	45.7	18	33
1454	5.2	223.5	-3.1	222.2	44.3	-0.9	45.8	19	21
1491	4.4	223.7	-3.1	222.3	44.2	-0.9	45.7	20	48
743	3.8	225.0	-3.1	223.6	44.3	-1.0	45.7	21	52
752	3.7	228.2	-3.0	226.7	44.3	-1.0	45.7	22	12
804	4.3	229.2	-3.0	227.7	44.4	-1.0	45.7	23	38
1570	5.3	227.5	-3.0	226.0	44.3	-1.0	45.7	23	49

SE. QUADRANT

CATNO	MAG	AZIMUTH				Z. D		L. S. T	
		LAT 56	A	LAT 58	LAT 56	B	LAT 58	HRS	MIN
114	4.5	130.9	-3.0	132.4	44.4	1.0	45.7	0	54
164	3.6	132.8	-3.0	134.2	44.3	1.0	45.7	2	16
1135	5.1	134.0	-3.1	135.4	44.3	1.0	45.7	2	42
1148	5.3	137.0	-3.1	138.4	44.3	0.9	45.7	3	26
218	5.5	138.0	-3.1	139.3	44.2	0.9	45.7	3	49
1200	5.0	134.8	-3.1	136.2	44.3	1.0	45.7	5	39
326	4.2	136.1	-3.1	137.4	44.2	0.9	45.7	6	41
473	5.2	135.1	-3.1	136.5	44.3	0.9	45.7	10	29
513	2.8	134.9	-3.1	136.3	44.3	1.0	45.7	11	48
526	0.2	132.3	-3.0	133.8	44.3	1.0	45.7	12	2
1378	5.4	132.0	-3.0	133.5	44.4	1.0	45.7	12	12
584	4.3	136.0	-3.1	137.4	44.3	0.9	45.8	13	45
609	3.8	132.6	-3.0	134.0	44.3	1.0	45.7	14	9
1454	5.2	136.5	-3.1	137.9	44.3	0.9	45.7	15	18
1491	4.4	136.2	-3.1	137.6	44.3	0.9	45.7	16	44
743	3.8	135.0	-3.1	136.4	44.3	1.0	45.7	17	41
752	3.7	131.9	-3.0	133.3	44.3	1.0	45.6	17	44
804	4.3	130.7	-3.0	132.2	44.4	1.0	45.7	19	4
1570	5.3	132.6	-3.0	134.1	44.3	1.0	45.6	19	25
898	5.2	133.2	-3.0	134.6	44.3	1.0	45.7	21	41
1004	4.9	129.7	-3.0	131.3	44.3	1.0	45.6	21	54

NW. QUADRANT							NE. QUADRANT												
CATNO	MAG	AZIMUTH			% D		L.S.T		CATNO	MAG	AZIMUTH			% D		L.S.T			
		LAT 58	A	LAT 60	LAT 58	B	LAT 60	HRS			MIN	LAT 58	A	LAT 60	LAT 58	B	LAT 60	HRS	MIN
707	4.9	315.1	-1.2	313.6	45.7	-0.9	44.3	1	18	292	5.0	46.2	-1.3	47.6	45.7	0.9	44.3	1	19
782	4.6	311.4	-1.3	309.9	45.7	-1.0	44.4	2	58	317	3.5	42.2	-1.2	43.6	45.7	0.9	44.3	1	51
783	3.6	319.6	-1.2	318.3	45.7	-0.8	44.2	3	30	368	3.9	45.5	-1.3	46.9	45.7	0.9	44.3	3	25
1572	4.5	318.2	-1.2	316.8	45.7	-0.9	44.2	4	24	417	2.0	40.1	-1.2	41.4	45.8	0.8	44.3	4	16
836	3.6	312.6	-1.3	311.1	45.7	-1.0	44.4	4	28	467	5.4	46.7	-1.3	48.2	45.6	0.9	44.3	6	9
847	4.0	312.0	-1.3	311.4	45.6	-1.0	44.3	4	47	500	5.4	43.7	-1.2	45.1	45.7	0.9	44.3	6	56
899	4.8	311.2	-1.3	309.7	45.7	-1.0	44.4	6	6	571	3.5	45.6	-1.3	47.0	45.7	0.9	44.3	9	0
2	2.4	314.3	-1.3	312.0	45.7	-0.9	44.3	6	32	598	4.1	46.4	-1.3	47.9	45.7	0.9	44.4	9	49
22	2.8	317.4	-1.2	316.1	45.8	-0.9	44.3	7	32	707	4.9	45.0	-1.2	46.4	45.7	0.9	44.3	12	24
48	2.8	316.5	-1.2	315.1	45.7	-0.9	44.3	7	57	783	3.6	40.3	-1.2	41.6	45.8	0.8	44.3	13	59
122	4.4	316.0	-1.2	314.6	45.7	-0.9	44.3	9	58	782	4.6	48.6	-1.3	50.1	45.6	1.0	44.3	14	32
182	4.2	317.0	-1.2	315.6	45.7	-0.9	44.3	11	36	1572	4.5	41.7	-1.2	43.1	45.8	0.9	44.3	15	5
237	4.4	314.3	-1.3	312.9	45.7	-0.9	44.3	12	42	836	3.6	47.5	-1.3	49.0	45.6	1.0	44.3	15	53
292	5.0	313.8	-1.3	312.3	45.6	-0.9	44.3	14	3	847	4.0	47.1	-1.3	48.6	45.6	1.0	44.3	16	10
317	3.5	317.7	-1.2	316.4	45.7	-0.9	44.3	15	6	899	4.8	48.8	-1.3	50.3	45.7	1.0	44.4	17	41
368	3.9	314.5	-1.3	313.0	45.7	-0.9	44.3	16	14	2	2.4	45.6	-1.3	47.1	45.7	0.9	44.3	17	44
417	2.0	319.9	-1.2	318.6	45.8	-0.8	44.3	17	49	32	2.8	42.6	-1.2	43.9	45.8	0.9	44.3	18	19
467	5.4	313.3	-1.3	311.8	45.6	-0.9	44.3	18	40	48	2.8	43.5	-1.2	44.9	45.7	0.9	44.3	18	52
500	5.4	316.4	-1.2	315.0	45.8	-0.9	44.3	20	1	122	4.4	44.0	-1.2	45.4	45.7	0.9	44.3	20	57
571	3.5	314.4	-1.3	313.0	45.7	-0.9	44.3	21	49	182	4.2	43.0	-1.2	44.4	45.7	0.9	44.3	22	27
598	4.1	313.6	-1.3	312.1	45.7	-0.9	44.4	22	23	237	4.4	45.7	-1.3	47.1	45.7	0.9	44.3	23	54

SW. QUADRANT							SE. QUADRANT												
CATNO	MAG	AZIMUTH			% D		L.S.T		CATNO	MAG	AZIMUTH			% D		L.S.T			
		LAT 58	A	LAT 60	LAT 58	B	LAT 60	HRS			MIN	LAT 58	A	LAT 60	LAT 58	B	LAT 60	HRS	MIN
1078	4.0	224.5	-3.1	223.1	44.2	-0.9	45.7	2	19	1089	5.0	132.2	-3.0	133.6	44.3	0.9	45.7	0	59
1132	4.9	227.8	-3.0	226.3	44.4	-0.9	45.7	3	25	1094	5.2	131.7	-3.0	132.2	44.4	1.0	45.7	1	4
66	2.7	227.0	-3.0	225.5	44.4	-0.9	45.7	4	6	114	4.5	137.0	-3.1	138.4	44.3	0.9	45.8	1	9
114	4.5	223.7	-3.1	221.7	44.3	-0.9	45.8	5	12	184	4.0	130.3	-3.0	131.9	44.3	1.0	45.6	2	42
1089	5.0	227.7	-3.0	226.2	44.3	-0.9	45.7	5	28	211	3.0	131.6	-3.0	133.0	44.4	1.0	45.7	3	20
1094	5.2	228.2	-3.0	226.9	44.4	-0.9	45.7	5	36	1173	4.1	135.1	-3.1	136.4	44.3	0.9	45.7	4	21
184	4.0	225.8	-3.0	224.3	44.3	-1.0	45.6	7	22	269	3.9	133.6	-3.0	135.1	44.3	0.9	45.7	4	52
211	3.0	228.5	-3.0	227.0	44.4	-1.0	45.7	7	53	321	5.5	133.7	-3.0	135.2	44.3	0.9	45.8	6	21
1173	4.1	225.1	-3.1	223.7	44.3	-0.9	45.7	9	35	1228	4.0	130.2	-3.0	131.7	44.4	1.0	45.7	6	22
269	3.9	226.5	-3.0	225.1	44.3	-0.9	45.7	9	14	422	2.6	133.5	-3.0	134.9	44.3	0.9	45.7	9	2
321	5.5	225.2	-3.0	224.8	44.3	-0.9	45.7	10	42	1304	4.5	134.6	-3.1	136.0	44.3	0.9	45.7	9	30
1228	4.0	229.7	-3.0	228.2	44.3	-1.0	45.6	11	2	618	2.8	130.1	-3.0	131.7	44.4	1.0	45.7	14	9
422	2.6	226.5	-3.0	225.0	44.3	-0.9	45.7	13	24	690	3.9	129.6	-3.0	131.1	44.3	1.0	45.6	16	1
1224	4.5	225.4	-3.1	224.0	44.3	-0.9	45.7	13	55	703	4.3	132.9	-3.0	135.4	44.3	0.9	45.7	16	35
618	2.9	229.6	-3.1	228.1	44.3	-1.0	45.6	18	49	752	3.0	137.9	-3.1	139.3	44.3	0.9	45.8	17	59
690	3.0	230.5	-3.0	229.0	44.4	-1.0	45.7	20	45	1539	4.8	131.5	-3.0	133.0	44.4	1.0	45.7	18	21
703	4.3	226.2	-3.0	224.7	44.3	-0.9	45.7	20	55	804	4.3	136.8	-3.1	138.1	44.3	0.9	45.8	19	19
752	3.0	222.1	-3.1	220.8	44.3	-0.9	45.9	21	57	1004	4.9	135.5	-3.1	136.9	44.3	0.9	45.7	22	8
1039	4.9	228.4	-3.0	226.9	44.4	-1.0	45.7	22	58	1032	4.9	132.3	-3.0	133.8	44.3	0.9	45.7	22	56
1044	4.3	223.1	-3.1	221.8	44.3	-0.9	45.7	23	23	66	2.7	133.0	-3.0	134.4	44.4	0.9	45.7	23	41

