

POSITIONS OF KNOWN AND DISCOVERED ASTEROIDS OBTAINED IN LA SILLA, CHILE, AT THE EUROPEAN SOUTHERN OBSERVATORY, SEPTEMBER 1984

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RESUMO

São fornecidas 234 posições de asteroídes obtidas na missão setembro/outubro de 1984 de Henri Debehogne, Observatoire Royal de Belgique, no European Southern Observatory-ESO, La Silla. Destas posições, 75 são de asteroídes catalogados na Ephemeridi Malik Planet (1984) e 159 correspondem a planetóides não catalogados e possivelmente a descobertas. O método dos mínimos quadrados e o das dependências foram utilizados na redução. A posição e o movimento próprio das cinco estrelas de referência foram extraídas do SAO Star Catalogue (1966), sendo o equinócio 1950.0.

ABSTRACT

234 positions of asteroids are given, obtained during the September/October 1984 mission of Henri Debehogne, Observatoire Royal de Belgique, at the European Southern Observatory, ESO, La Silla. Of these positions, 75 refer to catalogued asteroids in the Ephemeridi Malik Planet (1984) and 159 do not correspond to catalogued planetoids, but possibly to discoveries. The methods of least squares and dependences were used for reductions. Positions and proper motions of the five reference stars were obtained from the SAO Star Catalogue (1966), 1950.0 being the equinox.

Key words: ASTEROIDS — DISCOVERIES

I. INTRODUCTION

In continuation to the joint program of Observatoire Royal de Belgique and Observatório do Valongo, Universidade Federal do Rio de Janeiro, H. Debehogne (ORB) has been at the European Southern Observatory (ESO), La Silla, during September/October 1984; he has operated the refractor GPO telescope ($D = 40\text{-cm}$; $F = 4\text{-m}$) and has utilized Kodak II a-0 photographic plates, previously hypersensitized, with $16\text{-cm} \times 16\text{-cm}$ format. Extremely favourable transparency of the night sky made it possible to reach photographic magnitude 18.0, indispensable to recognize asteroids not included in the Ephemeridi Malik Planet (1984), thus allowing to perform rediscoveries and discoveries. Among 234 obtained positions, only 79 refer to known asteroids; the other 159 refer to not yet identified asteroids, which are provisionally denoted without the order number of the above mentioned Ephemeris.

II. OBSERVATION TECHNIQUES

The refractor GPO telescope ($D = 40\text{-cm}$; $F = 4\text{-m}$)

was initially pointed at the selected coordinates of asteroids included in the Ephemeris. Next day the plates were examined searching for uncatalogued asteroids. In case those were found, predicted centres were conveniently changed in order to make possible the following up of such celestial bodies. Due to this reason, the number of known asteroids in this paper is only of four: 2088 Sahlia, 2317 Galya, 2535 Hameenlinna and 2712 1937 YD. The remaining ones, about 53% of the reduced positions, have not been catalogued yet. They are provisionally identified by the year 1984 followed by: SV 2, ST 5, SE 6, SX 5 and SU 5. In order to save working time and plates, three exposures were made in each plate. To simplify the identification of the asteroids, the interval between the second and third declinations was always longer than between the first two.

III. REDUCTION TECHNIQUES

After identification of the asteroids and the five reference stars, the plates were read (0.1μ) at the Ascorcord Coordinatograph of the Observatoire Royal de

Belgique, and then reduced in the Univac Computer of the Institut Royal Meteorologique of Brussels, with a terminal at the ORB. The methods of least squares and of dependences were used for the reduction (Debehogne and Machado 1979). Coordinates and proper motions of the stars were taken from the SAO Star Catalogue (1966), for the 1950.0 equinox. Elements of the known asteroids were obtained from the Ephemeridi Malik Planet (1984).

IV. RESULTS

Table 1 presents the positions for 1950 of the asteroids, as well as residues for the ones included in the Ephemeris. Table 2 gives the dependences, which may be most valuable in case the positions and proper motions of the references stars should be changed in the future. In this case, new coordinates for the asteroids may be computed without the need of new readings of the

TABLE 1

POSITIONS

No.	Object	Date UT 1984			α (1950) δ							Residuals	
		Plate	Mon	Day	h	m	s	°	'	"		m	"
1	2088 SAHLIA	7392	9	21.288193	0	3	13.249	+00	23	42.74	+	.1	0
2	2088 SAHLIA	7392	9	21.293747	0	3	12.912	+00	23	41.70	+	.1	0
3	2088 SAHLIA	7392	9	21.299305	0	3	12.573	+00	23	40.71	+	.1	0
4	2088 SAHLIA	7410	9	22.275692	0	2	9.911	+00	20	20.14	+	.1	0
5	2088 SAHLIA	7410	9	22.281246	0	2	9.567	+00	20	19.00	+	.1	0
6	2088 SAHLIA	7410	9	22.286804	0	2	9.238	+00	20	17.39	+	.1	0
7	2088 SAHLIA	7421	9	23.083332	0	1	18.462	+00	17	33.17	+	.1	0
8	2088 SAHLIA	7421	9	23.088886	0	1	18.126	+00	17	32.13	+	.1	0
9	2088 SAHLIA	7421	9	23.094444	0	1	17.787	+00	17	31.12	+	.1	0
10	2088 SAHLIA	7443	9	24.232635	0	0	3.952	+00	13	34.58	+	.0	0
11	2088 SAHLIA	7443	9	24.238194	0	0	3.606	+00	13	33.22	+	.0	0
12	2088 SAHLIA	7443	9	24.243748	0	0	3.255	+00	13	32.34	+	.0	0
13	2088 SAHLIA	7457	9	26.279858	23	57	51.976	+00	06	21.59	+	.0	0
14	2088 SAHLIA	7457	9	26.285416	23	57	51.664	+00	06	20.09	+	.0	0
15	2088 SAHLIA	7457	9	26.290970	23	57	51.323	+00	06	28.90	+	.0	0
16	2088 SAHLIA	7471	9	27.163887	23	56	55.497	+00	03	28.91	-	.0	0
17	2088 SAHLIA	7471	9	27.169441	23	56	55.136	+00	03	27.76	-	.0	0
18	2088 SAHLIA	7471	9	27.174999	23	56	54.766	+00	03	26.64	-	.0	0
19	2088 SAHLIA	7488	9	28.163867	23	55	51.590	+00	00	04.80	-	.1	0
20	2088 SAHLIA	7488	9	28.169441	23	55	51.251	+00	00	03.38	-	.1	0
21	2088 SAHLIA	7488	9	28.174999	23	55	50.916	+00	00	02.43	-	.1	0
22	2088 SAHLIA	7506	9	29.145485	23	54	49.272	-00	03	14.72	-	.1	0
23	2088 SAHLIA	7506	9	29.150692	23	54	48.955	-00	03	15.78	-	.1	0
24	2088 SAHLIA	7506	9	29.156246	23	54	48.614	-00	03	16.90	-	.1	0
25	2088 SAHLIA	7515	9	29.329261	23	54	37.159	-00	03	52.56	-	.1	0
26	2088 SAHLIA	7515	9	29.335415	23	54	36.320	-00	03	53.31	-	.1	0
27	2088 SAHLIA	7515	9	29.340969	23	54	36.477	-00	03	54.09	-	.1	0
28	2088 SAHLIA	7525	9	30.157639	23	53	45.251	-00	06	38.00	-	.1	-1
29	2088 SAHLIA	7525	9	30.163887	23	53	44.868	-00	06	39.02	-	.1	-1
30	2088 SAHLIA	7525	9	30.170830	23	53	44.451	-00	06	40.79	-	.1	-1
31	2088 SAHLIA	7533	9	30.336803	23	53	33.621	-00	07	14.01	-	.1	-1
32	2088 SAHLIA	7533	9	30.342358	23	53	33.287	-00	07	15.15	-	.1	-1
33	2088 SAHLIA	7533	9	30.347916	23	53	32.922	-00	07	16.22	-	.1	-1
34	2088 SAHLIA	7542	10	1.237499	23	52	37.419	-00	10	11.00	-	.2	-1
35	2088 SAHLIA	7542	10	1.243053	23	52	37.083	-00	10	11.90	-	.2	-1
36	2088 SAHLIA	7542	10	1.248608	23	52	36.756	-00	10	13.06	-	.2	-1
37	2317 GALYA	7392	9	21.288193	23	58	0.952	+00	58	43.01	+	.0	0
38	2317 GALYA	7392	9	21.293747	23	58	0.676	+00	58	41.11	+	.0	0
39	2317 GALYA	7392	9	21.299305	23	58	0.407	+00	58	37.82	+	.0	0
40	2317 GALYA	7421	9	23.083332	23	56	37.548	+00	44	21.27	+	.0	0
41	2317 GALYA	7421	9	23.088886	23	56	37.302	+00	44	18.40	+	.0	0
42	2317 GALYA	7421	9	23.094444	23	56	37.009	+00	44	15.74	+	.0	0
43	2317 GALYA	7443	9	24.232635	23	55	43.395	+00	35	07.78	+	.0	0
44	2317 GALYA	7443	9	24.238194	23	55	43.152	+00	35	05.31	+	.0	0
45	2317 GALYA	7443	9	24.243748	23	55	42.893	+00	35	02.80	+	.0	0
46	2317 GALYA	7457	9	26.279858	23	54	7.763	+00	18	38.33	+	.0	0
47	2317 GALYA	7457	9	26.285416	23	54	7.459	+00	18	35.58	+	.0	0
48	2317 GALYA	7457	9	26.290970	23	54	7.183	+00	18	32.93	+	.0	0
49	2317 GALYA	7471	9	27.163887	23	53	27.035	+00	11	31.89	-	.0	0
50	2317 GALYA	7471	9	27.169441	23	53	26.753	+00	11	29.25	-	.0	0

TABLE 1(CONTINUED)

No.	Object	Date UT 1984			α (1950) δ						Residuals	
		Plate	Mon	Day	h	m	s	°	'	"	m	
51	2317 GALYA	7471	9	27.174999	23	53	26.466	+00	11	26.87	- .0	0
52	2317 GALYA	7488	9	28.163887	23	52	41.020	+00	03	31.78	- .0	0
53	2317 GALYA	7488	9	28.169441	23	52	40.765	+00	03	29.46	- .0	0
54	2317 GALYA	7488	9	28.174999	23	52	40.471	+00	03	26.80	- .0	0
55	2317 GALYA	7506	9	29.145485	23	51	56.290	-00	04	17.81	- .0	- 0
56	2317 GALYA	7506	9	29.150692	23	51	56.006	-00	04	20.38	- .0	- 0
57	2317 GALYA	7506	9	29.156246	23	51	55.776	-00	04	23.55	- .0	- 0
58	2317 GALYA	7525	9	30.157639	23	51	10.561	-00	12	21.21	- .0	- 0
59	2317 GALYA	7525	9	30.163887	23	51	10.274	-00	12	24.15	- .0	- 0
60	2317 GALYA	7525	9	30.170830	23	51	9.937	-00	12	27.35	- .0	- 0
61	2317 GALYA	7542	10	1.237499	23	50	22.278	-00	20	50.73	+ .0	- 0
62	2317 GALYA	7542	10	1.243053	23	50	22.006	-00	20	53.07	+ .0	- 0
63	2317 GALYA	7542	10	1.248608	23	50	21.736	-00	20	55.71	+ .0	- 0
64	2535 HAMEENLINNA	7392	9	21.288193	0	2	26.021	-00	32	02.45	+ .0	0
65	2535 HAMEENLINNA	7392	9	21.293747	0	2	25.728	-00	32	05.09	+ .0	0
66	2535 HAMEENLINNA	7392	9	21.299305	0	2	25.379	-00	32	08.13	+ .0	0
67	2535 HAMEENLINNA	7410	9	22.275692	0	1	31.132	-00	39	51.07	+ .0	+ 0
68	2535 HAMEENLINNA	7410	9	22.281246	0	1	30.818	-00	39	54.59	+ .0	+ 0
69	2535 HAMEENLINNA	7410	9	22.286804	0	1	30.496	-00	39	57.30	+ .0	+ 0
70	2535 HAMEENLINNA	7421	9	23.083332	0	0	46.551	-00	46	15.21	+ .0	+ 0
71	2535 HAMEENLINNA	7421	9	23.088886	0	0	46.213	-00	46	18.03	+ .0	+ 0
72	2535 HAMEENLINNA	7421	9	23.094444	0	0	45.894	-00	46	20.87	+ .0	+ 0
73	2712 1937 YD	7392	9	21.288193	23	57	15.391	-00	33	25.91	+ .0	0
74	2712 1937 YD	7392	9	21.293747	23	57	15.076	-00	33	28.31	+ .0	0
75	2712 1937 YD	7392	9	21.299305	23	57	14.744	-00	33	31.38	+ .0	0
76	1984 SV5	7392	9	21.288193	0	0	4.279	-00	27	59.61		
77	1984 SV5	7392	9	21.293747	0	0	4.000	-00	28	00.31		
78	1984 SV5	7392	9	21.299305	0	0	3.725	-00	28	01.00		
79	1984 SV5	7410	9	22.275692	23	59	13.244	-00	30	03.56		
80	1984 SV5	7410	9	22.281246	23	59	13.007	-00	30	04.31		
81	1984 SV5	7410	9	22.286804	23	59	12.772	-00	30	05.07		
82	1984 SV5	7421	9	23.083332	23	58	32.043	-00	31	42.72		
83	1984 SV5	7421	9	23.088886	23	58	31.737	-00	31	43.73		
84	1984 SV5	7421	9	23.094444	23	58	31.465	-00	31	44.74		
85	1984 SV5	7443	9	24.232635	23	57	32.644	-00	34	05.00		
86	1984 SV5	7443	9	24.238194	23	57	32.390	-00	34	05.67		
87	1984 SV5	7443	9	24.243748	23	57	32.129	-00	34	06.28		
88	1984 SV5	7457	9	26.279358	23	55	47.467	-00	38	19.08		
89	1984 SV5	7457	9	26.285416	23	55	47.141	-00	38	19.76		
90	1984 SV5	7457	9	26.290970	23	55	46.856	-00	38	20.29		
91	1984 SV5	7471	9	27.163887	23	55	2.508	-00	40	07.19		
92	1984 SV5	7471	9	27.169441	23	55	2.226	-00	40	07.39		
93	1984 SV5	7471	9	27.174999	23	55	1.944	-00	40	08.08		
94	1984 SV5	7488	9	28.163887	23	54	11.803	-00	42	07.47		
95	1984 SV5	7488	9	28.169441	23	54	11.507	-00	42	08.05		
96	1984 SV5	7488	9	28.174999	23	54	11.222	-00	42	08.77		
97	1984 SV5	7506	9	29.145485	23	53	22.332	-00	44	04.17		
98	1984 SV5	7506	9	29.150692	23	53	22.037	-00	44	04.80		
99	1984 SV5	7506	9	29.156246	23	53	21.761	-00	44	05.50		
100	1984 SV5	7515	9	29.329861	23	53	12.876	-00	44	26.17		
101	1984 SV5	7515	9	29.335415	23	53	12.596	-00	44	26.83		
102	1984 SV5	7515	9	29.340969	23	53	12.315	-00	44	27.60		
103	1984 SV5	7525	9	30.157639	23	52	31.753	-00	46	01.47		
104	1984 SV5	7525	9	30.163887	23	52	31.443	-00	46	02.14		
105	1984 SV5	7525	9	30.170830	23	52	31.064	-00	46	03.29		
106	1984 SV5	7542	10	1.237499	23	51	38.150	-00	48	04.86		
107	1984 SV5	7542	10	1.243053	23	51	37.865	-00	48	05.48		
108	1984 SV5	7542	10	1.248608	23	51	37.585	-00	48	06.16		
109	1984 SV2	7392	9	21.288193	0	4	30.909	+01	01	58.76		
110	1984 SV2	7392	9	21.293747	0	4	30.582	+01	01	57.73		
111	1984 SV2	7392	9	21.299305	0	4	30.275	+01	01	56.88		
112	1984 SV2	7410	9	22.275692	0	3	35.541	+00	59	27.42		
113	1984 SV2	7410	9	22.281246	0	3	35.252	+00	59	26.42		
114	1984 SV2	7410	9	22.286804	0	3	34.962	+00	59	25.79		
115	1984 SV2	7421	9	23.083332	0	2	50.695	+00	57	22.12		
116	1984 SV2	7421	9	23.088886	0	2	50.386	+00	57	21.26		
117	1984 SV2	7421	9	23.094444	0	2	50.077	+00	57	20.00		

TABLE 1 (CONTINUED)

No.	Object	Date UT 1984			α (1950) δ							Residuals	
		Plate	Mon	Day	h	m	s	.	"	'''	m	.	'''
118	1984 SV2	7443	9	24.232635	0	1	45.235	+00	54	22.31			
119	1984 SV2	7443	9	24.232194	0	1	44.936	+00	54	21.42			
120	1984 SV2	7443	9	24.243748	0	1	44.602	+00	54	20.51			
121	1984 SV2	7457	9	26.279858	23	50	49.462	+00	48	58.78			
122	1984 SV2	7457	9	26.285416	23	59	49.158	+00	48	57.72			
123	1984 SV2	7457	9	26.290970	23	59	48.850	+00	48	56.59			
124	1984 SV2	7471	9	27.163887	23	59	5.176	+00	46	39.66			
125	1984 SV2	7471	9	27.169441	23	58	59.365	+00	46	38.54			
126	1984 SV2	7471	9	27.174999	23	58	59.547	+00	46	37.64			
127	1984 SV2	7488	9	28.163887	23	58	4.273	+00	44	03.62			
128	1984 SV2	7488	9	28.169441	23	58	3.975	+00	44	02.75			
129	1984 SV2	7488	9	28.174999	23	58	3.672	+00	44	01.85			
130	1984 SV2	7506	9	29.145485	23	57	9.973	+00	41	31.07			
131	1984 SV2	7506	9	29.150692	23	57	9.667	+00	41	30.12			
132	1984 SV2	7506	9	29.156246	23	57	9.356	+00	41	29.33			
133	1984 SV2	7515	9	29.329861	23	56	59.228	+00	41	02.85			
134	1984 SV2	7515	9	29.335415	23	56	58.908	+00	41	02.00			
135	1984 SV2	7515	9	29.340969	23	56	58.583	+00	41	01.08			
136	1984 SV2	7525	9	30.157639	23	56	14.245	+00	38	55.92			
137	1984 SV2	7525	9	30.163887	23	56	13.901	+00	38	54.89			
138	1984 SV2	7525	9	30.170830	23	56	13.552	+00	38	53.73			
139	1984 SV2	7533	9	30.336803	23	56	3.956	+00	38	20.67			
140	1984 SV2	7533	9	30.342358	23	56	3.660	+00	38	27.62			
141	1984 SV2	7533	9	30.347916	23	56	3.359	+00	38	26.56			
142	1984 SV2	7542	10	1.237499	23	55	15.454	+00	36	14.92			
143	1984 SV2	7542	10	1.243053	23	55	15.155	+00	36	13.94			
144	1984 SV2	7542	10	1.248608	23	55	14.849	+00	36	13.12			
145	1984 ST5	7392	9	21.288193	23	58	59.720	+01	01	43.35			
146	1984 ST5	7392	9	21.293747	23	58	59.404	+01	01	41.80			
147	1984 ST5	7392	9	21.299305	23	58	59.114	+01	01	40.46			
148	1984 ST5	7410	9	22.275692	23	58	7.973	+00	57	38.73			
149	1984 ST5	7410	9	22.281246	23	58	7.683	+00	57	37.37			
150	1984 ST5	7410	9	22.286804	23	58	7.389	+00	57	36.00			
151	1984 ST5	7421	9	23.083332	23	57	26.255	+00	54	18.39			
152	1984 ST5	7421	9	23.088886	23	57	25.968	+00	54	17.06			
153	1984 ST5	7421	9	23.094444	23	57	25.679	+00	54	15.51			
154	1984 ST5	7443	9	24.232635	23	56	25.537	+00	49	32.13			
155	1984 ST5	7443	9	24.238194	23	56	25.247	+00	49	30.62			
156	1984 ST5	7443	9	24.243748	23	56	24.958	+00	49	29.32			
157	1984 ST5	7457	9	26.279858	23	54	38.290	+00	40	59.10			
158	1984 ST5	7457	9	26.285416	23	54	38.000	+00	40	57.56			
159	1984 ST5	7457	9	26.290970	23	54	37.713	+00	40	55.73			
160	1984 ST5	7471	9	27.163887	23	53	52.795	+00	37	17.73			
161	1984 ST5	7471	9	27.169441	23	53	52.508	+00	37	16.31			
162	1984 ST5	7471	9	27.174999	23	53	52.198	+00	37	15.00			
163	1984 ST5	7488	9	28.163887	23	53	1.298	+00	33	08.00			
164	1984 ST5	7488	9	28.169441	23	53	1.031	+00	33	08.38			
165	1984 ST5	7488	9	28.174999	23	53	0.760	+00	33	06.86			
166	1984 ST5	7506	9	29.145485	23	52	11.307	+00	29	06.00			
167	1984 ST5	7506	9	29.150692	23	52	11.049	+00	29	04.73			
168	1984 ST5	7506	9	29.156246	23	52	10.766	+00	29	03.40			
169	1984 ST5	7525	9	30.157639	23	51	20.204	+00	24	58.18			
170	1984 ST5	7525	9	30.163887	23	51	19.887	+00	24	56.87			
171	1984 ST5	7525	9	30.170830	23	51	19.538	+00	24	55.56			
172	1984 ST5	7542	10	1.237499	23	50	26.302	+00	20	37.45			
173	1984 ST5	7542	10	1.243053	23	50	26.020	+00	20	36.19			
174	1984 ST5	7542	10	1.248608	23	50	25.738	+00	20	35.02			
175	1984 SE6	7410	9	22.275692	0	4	36.309	-00	16	40.42			
176	1984 SE6	7410	9	22.281246	0	4	35.987	-00	16	41.72			
177	1984 SE6	7410	9	22.286804	0	4	35.661	-00	16	43.01			
178	1984 SE6	7443	9	24.232635	0	2	45.644	-00	22	38.40			
179	1984 SE6	7443	9	24.238194	0	2	45.315	-00	22	39.01			
180	1984 SE6	7443	9	24.243748	0	2	44.986	-00	22	39.67			
181	1984 SE6	7457	9	26.279858	0	0	50.643	-00	28	45.22			
182	1984 SE6	7457	9	26.285416	0	0	50.311	-00	28	45.86			
183	1984 SE6	7457	9	26.290970	0	0	49.977	-00	28	46.53			
184	1984 SE6	7471	9	27.163887	0	0	1.776	-00	31	23.19			

TABLE 1 (CONTINUED)

No.	Object	Date UT 1984			α (1950) δ							Residuals
		Plate	Mon	Day	h	m	s	°	'	"	m	
185	1984 SE6	7471	9	27.169441	0	0	1.465	-00	31	24.38		
186	1984 SE6	7471	9	27.174999	0	0	1.127	-00	31	25.51		
187	1984 SE6	7488	9	28.163887	23	59	6.754	-00	34	13.54		
188	1984 SE6	7488	9	28.169441	23	59	6.449	-00	34	15.11		
189	1984 SE6	7488	9	28.174999	23	59	6.141	-00	34	16.54		
190	1984 SE6	7506	9	29.145485	23	58	13.194	-00	37	00.88		
191	1984 SE6	7506	9	29.150692	23	58	12.908	-00	37	01.84		
192	1984 SE6	7506	9	29.156246	23	58	12.595	-00	37	02.80		
193	1984 SE6	7515	9	29.329861	23	58	2.882	-00	37	31.05		
194	1984 SE6	7515	9	29.335415	23	58	2.547	-00	37	31.64		
195	1984 SE6	7515	9	29.340969	23	58	2.258	-00	37	32.07		
196	1984 SE6	7525	9	30.157639	23	57	18.898	-00	39	47.69		
197	1984 SE6	7525	9	30.163887	23	57	18.562	-00	39	48.61		
198	1984 SE6	7525	9	30.170830	23	57	18.192	-00	39	49.56		
199	1984 SE6	7533	9	30.336803	23	57	8.775	-00	40	16.66		
200	1984 SE6	7533	9	30.342358	23	57	8.498	-00	40	17.60		
201	1984 SE6	7533	9	30.347916	23	57	8.220	-00	40	18.63		
202	1984 SE6	7542	10	1.237499	23	56	21.512	-00	42	42.40		
203	1984 SE6	7542	10	1.242053	23	56	21.212	-00	42	43.26		
204	1984 SE6	7542	10	1.248608	23	56	20.939	-00	42	44.11		
205	1984 SX5	7421	9	23.083332	0	3	51.113	-00	19	05.94		
206	1984 SX5	7421	9	23.088886	0	3	50.814	-00	19	09.20		
207	1984 SX5	7421	9	23.094444	0	3	50.518	-00	19	12.49		
208	2540	7515	9	29.329861	0	0	19.328	+00	02	53.08		
209	2540	7515	9	29.335415	0	0	19.008	+00	02	50.87		
210	2540	7515	9	29.340969	0	0	18.692	+00	02	48.58		
211	2540	7533	9	30.336803	23	59	22.427	-00	04	01.64		
212	2540	7533	9	30.342358	23	59	22.099	-00	04	03.78		
213	2540	7533	9	30.347916	23	59	21.774	-00	04	06.07		
214	1984 SU5	7392	9	21.238193	23	59	58.933	+00	24	10.38		
215	1984 SU5	7392	9	21.293747	23	59	58.682	+00	24	07.47		
216	1984 SU5	7392	9	21.299305	23	59	58.429	+00	24	04.46		
217	1984 SU5	7421	9	23.083332	23	58	37.003	+00	09	17.69		
218	1984 SU5	7421	9	23.088886	23	58	36.784	+00	09	15.20		
219	1984 SU5	7421	9	23.094444	23	58	36.564	+00	09	12.32		
220	1984 SU5	7443	9	24.232635	23	57	44.094	-00	00	09.80		
221	1984 SU5	7443	9	24.238194	23	57	43.851	-00	00	12.51		
222	1984 SU5	7443	9	24.243748	23	57	43.597	-00	00	14.87		
223	1984 SU5	7457	9	26.279858	23	56	11.775	-00	16	49.53		
224	1984 SU5	7457	9	26.285416	23	56	11.534	-00	16	52.39		
225	1984 SU5	7457	9	26.290970	23	56	11.283	-00	16	55.10		
226	1984 SU5	7471	9	27.163887	23	55	32.875	-00	23	56.90		
227	1984 SU5	7471	9	27.169441	23	55	32.631	-00	23	59.40		
228	1984 SU5	7471	9	27.174999	23	55	32.401	-00	24	02.14		
229	1984 SU5	7488	9	28.163887	23	54	49.274	-00	31	54.35		
230	1984 SU5	7488	9	28.169441	23	54	49.027	-00	31	57.10		
231	1984 SU5	7488	9	28.174999	23	54	48.787	-00	31	59.68		
232	1984 SU5	7506	9	29.145485	23	54	7.075	-00	39	37.89		
233	1984 SU5	7506	9	29.150692	23	54	6.826	-00	39	40.15		
234	1984 SU5	7506	9	29.156246	23	54	6.600	-00	39	42.50		

TABLE 2

STAR RESIDUALS AND DEPENDENCES

Observations			No. <i>SAO</i>	Positions Used		Star Residuals						Dependences		
				s	"	s	"	s	"	s	"			
1	2	3	109000	+29.623	34.30	+0.018	+0.25	+0.015	+0.15	+0.027	+0.14	+0.294053	+0.293582	+0.293142
			108991	+05.124	27.04	+0.016	+0.28	+0.018	+0.31	+0.019	+0.14	+0.020531	+0.020758	+0.020995
			108997	+12.578	30.77	-0.027	-0.43	-0.027	-0.40	-0.036	-0.23	+0.192884	+0.192431	+0.191958
			128542	+32.709	12.46	-0.007	-0.09	-0.007	-0.10	-0.008	-0.05	-0.069546	-0.068010	-0.066475
			128581	+34.282	25.06	-0.001	-0.00	-0.000	+0.03	-0.004	-0.01	+0.562078	+0.561238	+0.560380

TABLE 2 (CONTINUED)

			Positions Used		Star Residuals									
Observations	No. SAO		s	"	s	"	s	"	s	"	Dependences			
4	5	6	109000	+29.623	34.30	+0.008	+0.14	+0.006	+0.18	+0.000	+0.17	+0.431753	+0.431243	+0.430609
			128567	+11.566	20.11	+0.021	+0.26	+0.023	+0.35	+0.018	+0.34	+0.081773	+0.082168	+0.082613
			128542	+32.709	12.46	-0.014	-0.19	-0.012	-0.25	-0.005	-0.23	+0.244363	+0.245573	+0.246750
			109016	+34.874	43.00	-0.011	-0.26	-0.005	-0.33	+0.010	-0.29	+0.154141	+0.153290	+0.152484
			128581	+34.282	25.06	-0.006	+0.05	-0.013	+0.05	-0.024	+0.01	+0.087970	+0.087727	+0.087543
7	8	9	128567	+11.566	20.11	+0.027	+0.91	+0.017	+0.40	+0.021	+0.47	+0.181988	+0.182179	+0.182381
			128581	+34.282	25.06	-0.014	-0.97	-0.012	-0.47	-0.012	-0.52	+0.205881	+0.205456	+0.205013
			109000	+29.623	34.30	-0.001	+0.36	+0.003	+0.20	+0.001	+0.20	+0.252514	+0.251338	+0.250161
			128542	+32.709	12.46	-0.023	-0.02	-0.010	+0.07	-0.017	+0.02	+0.168692	+0.169507	+0.170319
			128528	+00.692	16.28	+0.008	-0.28	-0.000	-0.18	+0.004	-0.17	+0.190925	+0.191520	+0.192126
10	11	12	128522	+26.452	38.02	-0.001	-0.06	-0.011	-0.01	+0.006	-0.17	+0.170234	+0.170733	+0.171313
			128537	+53.817	21.84	+0.045	+0.45	+0.036	+0.47	+0.035	+0.56	+0.235762	+0.236411	+0.237008
			109000	+29.623	34.30	+0.011	+0.11	+0.004	+0.10	+0.006	+0.18	+0.138437	+0.137241	+0.136124
			128567	+11.566	20.11	+0.001	-0.07	+0.016	-0.00	+0.009	-0.20	+0.235502	+0.235213	+0.234857
			128542	+32.709	12.46	-0.053	-0.43	-0.065	-0.56	-0.054	-0.36	+0.220066	+0.220403	+0.220699
13	14	15	128556	+45.079	32.37	+0.007	-0.03	+0.014	+0.21	+0.005	+0.12	-0.277510	-0.278527	-0.279770
			128542	+32.710	12.46	+0.021	+0.04	+0.021	+0.06	+0.026	+0.17	+0.587769	+0.587014	+0.586344
			147018	+12.690	30.16	+0.027	+0.02	+0.032	+0.23	+0.030	+0.28	+0.159638	+0.161020	+0.162415
			147025	+54.000	24.68	-0.028	-0.06	-0.028	-0.07	-0.034	-0.22	+0.609973	+0.610455	+0.611036
			147040	+08.729	44.46	-0.025	+0.03	-0.038	-0.42	-0.025	-0.34	-0.079870	-0.079962	-0.080025
16	17	18	128537	+53.817	21.84	+0.034	+0.57	+0.024	+0.52	+0.024	+0.57	+0.355485	+0.354337	+0.353184
			147025	+54.000	24.68	-0.044	-0.77	-0.031	-0.76	-0.033	-0.82	+0.277791	+0.277269	+0.276716
			147004	+30.935	22.99	+0.007	+0.14	+0.005	+0.25	+0.008	+0.25	+0.068637	+0.069754	+0.070875
			128485	+03.666	51.89	-0.010	-0.11	-0.007	+0.17	-0.001	+0.14	+0.178508	+0.178556	+0.178599
			128481	+52.902	11.09	+0.014	+0.17	+0.010	-0.19	+0.003	-0.14	+0.119579	+0.120083	+0.120626
19	20	21	147004	+30.935	22.99	-0.011	+0.21	-0.011	+0.05	-0.010	+0.20	+0.169903	+0.171530	+0.172963
			147034	+36.368	15.05	+0.023	-0.27	+0.026	-0.24	+0.019	-0.28	+0.174053	+0.173464	+0.172862
			147028	+05.325	20.00	-0.022	+0.21	-0.026	+0.26	-0.017	+0.23	+0.198621	+0.197322	+0.196123
			128481	+52.902	11.09	+0.008	-0.30	+0.004	+0.10	+0.009	-0.28	+0.220029	+0.220598	+0.221152
			128485	+03.666	51.89	+0.002	+0.15	+0.006	-0.17	-0.000	+0.13	+0.237395	+0.237085	+0.236901
22	23	24	146973	+12.864	07.65	-0.005	-0.67	-0.005	-0.61	-0.024	-0.38	-0.035500	-0.034616	-0.033717
			128470	+02.063	02.54	-0.001	-0.49	-0.005	+0.50	-0.004	+0.48	+0.185065	+0.185020	+0.184998
			128481	+52.902	11.09	+0.004	-0.28	+0.010	-0.33	+0.019	-0.43	+0.327048	+0.326545	+0.326011
			146974	+19.023	49.79	+0.004	+0.46	+0.004	+0.41	+0.018	+0.25	-0.056889	-0.055861	-0.054717
			147004	+30.935	22.99	-0.002	+0.01	-0.004	+0.03	-0.009	+0.09	+0.580275	+0.578911	+0.577425
25	26	27	128481	+52.902	11.09	-0.006	+0.18	-0.010	+0.16	-0.014	+0.24	+0.570363	+0.570464	+0.570574
			146974	+19.023	49.79	+0.015	-0.34	-0.024	-0.30	+0.030	-0.43	-0.004761	-0.003189	-0.001625
			146982	+17.791	18.96	-0.024	+0.32	-0.035	+0.28	-0.039	+0.34	-0.051783	-0.051311	-0.050799
			146989	+16.186	17.94	+0.012	+0.07	+0.015	+0.07	+0.009	+0.18	+0.075846	+0.075367	+0.074887
			147004	+30.935	22.99	+0.003	-0.23	+0.007	-0.21	+0.013	-0.33	+0.410335	+0.408669	+0.406963
28	29	30	128481	+52.902	11.09	-0.006	-0.34	-0.001	-0.35	-0.017	-0.40	+0.148016	+0.147606	+0.147158
			128470	+02.063	02.54	-0.020	+0.54	-0.020	+0.29	-0.032	+0.33	+0.091078	+0.091359	+0.091541
			128485	+03.666	51.89	+0.023	-0.12	-0.019	-0.01	+0.040	-0.02	+0.052376	+0.051355	+0.050111
			146973	+12.864	07.65	+0.009	-0.09	+0.007	-0.03	+0.014	-0.04	+0.368776	+0.371153	+0.373849
			147004	+30.935	22.99	-0.004	+0.20	-0.005	+0.12	-0.006	+0.13	+0.339754	+0.336528	+0.337301
31	32	33	128481	+52.902	11.09	+0.000	+0.12	-0.000	+0.15	-0.000	+0.10	+0.632867	+0.632935	+0.633042
			146982	+17.791	18.96	-0.047	+0.03	-0.051	+0.75	-0.039	+0.01	+0.251294	+0.252758	+0.254290
			146989	+16.186	17.94	+0.009	-0.04	-0.075	-0.07	+0.057	-0.01	+0.142104	+0.142686	+0.143372
			147004	+30.935	22.99	-0.006	-0.31	-0.006	-0.38	-0.005	-0.27	+0.143197	+0.142425	+0.141611
			147013	+36.997	41.59	-0.016	+0.20	-0.018	+0.25	-0.014	+0.16	-0.169462	-0.170803	-0.172315
34	35	36	146973	+12.864	07.65	+0.010	+0.05	-0.013	+0.01	+0.009	+0.04	+0.897847	+0.898616	+0.899443
			128434	+17.079	47.85	-0.010	+0.04	-0.005	-0.04	-0.009	-0.03	-0.057151	-0.055871	-0.054704
			128470	+02.063	02.54	+0.024	-0.22	-0.003	+0.12	+0.021	+0.04	-0.053000	-0.053517	-0.053884
			128481	+52.902	11.09	-0.030	-0.14	-0.030	-0.04	-0.025	-0.12	+0.276777	+0.276085	+0.275505
			128485	+03.666	51.88	+0.006	+0.27	+0.021	-0.06	+0.004	+0.06	-0.064472	-0.065313	-0.066360
37	38	39	128542	+32.709	12.46	+0.003	+0.09	+0.005	+0.06	+0.005	+0.06	-0.135182	-0.134949	-0.134515
			128528	+00.692	16.28	-0.023	-0.17	-0.039	+0.05	-0.037	-0.18	+0.429477	+0.429981	+0.430328
			128522	+26.452	38.02	+0.011	+0.00	+0.024	-0.16	+0.022	+0.06	+0.532282	+0.532792	+0.533316
			108991	+05.124	27.04	+0.015	+0.41	+0.016	+0.35	+0.020	+0.26	+0.189061	+0.188562	+0.187991
			108997	+12.578	30.77	-0.011	-0.33	-0.011	-0.30	-0.014	-0.21	-0.015637	-0.016386	-0.017120
40	41	42	128542	+32.709	12.46	-0.000	-0.38	+0.004	-0.29	+0.002	-0.33	-0.618968	-0.621634	-0.624597
			128528	+00.692	16.28	-0.019	-0.20	-0.028	-0.26	-0.024	-0.17	+0.314589	+0.313689	+0.312560
			128522	+26.452	38.02	+0.015	+0.20	+0.023	+0.25	+0.019	+0.17	+0.754250	+0.754794	+0.755706
			128537	+53.817	21.84	+0.008	+0.83	+0.005	+0.69	+0.006	+0.71	-0.060155	-0.060091	-0.060168
			147028	+05.325	20.00	-0.010	-0.45	-0.011	-0.40	-0.011	-0.39	+0.610284	+0.613241	+0.616499
43	44	45	147004	+30.935	22.99	+0.005	+0.14	+0.004	+0.12	+0.003	+0.10	+0.602448	+0.603759	+0.605139
			147025	+54.000	24.68	-0.036	-0.63	-0.035	-0.60	-0.033	-0.58	-0.147607	-0.147842	-0.148107
			128537	+53.817	21.84	+0.033	+0.49	+0.035	+0.50	+0.034	+0.51	-0.490717	-0.491599	-0.492538
			128522	+26.452	38.02	+0.035	+0.24	+0.044	+0.37	+0.045	+0.48	+0.642370	+0.642414	+0.642540
			128528	+00.692	16.28	-0.037	-0.25	-0.048	-0.39	-0.049	-0.51	+0.393505	+0.393267	+0.392967
46	47	48	128528	+00.692	16.28	-0.008	-0.17	-0.023	+0.02	-0.030	-0.13	+0.023723	+0.022981	+0.022373
			128522	+26.452	38.02	+0.009	+0.19	+0.026	-0.03	+0.035	+0.14	+0.022055	+0.021468	+0.020860
			128484	+59.051	21.77	-0.002	-0.09	-0.007	-0.07	-0.009	-0.08	-0.005585	-0.005705	-0.005888
			128485	+03.666	51.89	+0.002	+0.26	+0.013	+0.29	+0.016	+0.24	+0.400295	+0.400857	+0.401401
			128481	+52.902	11.09	-0.001	-0.19	-0.009	-0.21	-0.012	-0.18	+0.559512	+0.560398	+0.561233

TABLE 2 (CONTINUED)

			Positions Used			Star Residuals								
Observations	No. SAO		s	"		s	"		s	"		Dependences		
49	50	51	128484	+59.051	21.77	-0.000	-0.06	-0.003	-0.17	-0.007	-0.13	-0.225459	-0.227145	-0.228775
			128460	+06.045	38.72	+0.001	-0.12	+0.005	-0.06	-0.003	-0.01	+0.137249	+0.139340	+0.141465
			128470	+02.063	02.54	-0.002	+0.28	-0.007	+0.20	+0.010	+0.09	+0.260096	+0.260855	+0.261634
			128485	+03.666	51.89	+0.002	+0.11	+0.013	+0.48	+0.021	+0.41	+0.316847	+0.315866	+0.314961
			128481	+52.902	11.09	-0.001	-0.20	-0.007	-0.46	-0.021	-0.36	+0.511267	+0.511084	+0.510715
52	53	54	128460	+06.045	38.72	-0.008	+0.31	+0.016	+0.35	+0.024	+0.29	+0.121701	+0.122427	+0.123283
			128452	+36.707	03.20	+0.007	-0.22	-0.012	-0.28	-0.018	-0.21	+0.440550	+0.441771	+0.443149
			128481	+52.902	11.09	-0.010	-0.27	-0.009	+0.05	-0.008	-0.23	+0.446296	+0.445760	+0.445301
			128485	+03.666	51.89	+0.010	+0.44	+0.016	+0.05	+0.018	+0.38	+0.255676	+0.255113	+0.254262
			128484	+59.051	21.77	+0.001	-0.26	-0.012	-0.17	-0.016	-0.23	+0.264223	+0.265072	+0.265996
55	56	57	128481	+52.902	11.09	-0.016	-0.29	-0.014	-0.29	-0.020	-0.29	+0.017941	+0.016134	+0.014781
			146973	+12.864	07.65	+0.024	+0.49	+0.022	+0.53	+0.024	+0.64	+0.624263	+0.625436	+0.626782
			128460	+06.045	38.72	+0.015	+0.36	+0.016	+0.45	+0.009	+0.61	+0.000399	+0.000526	+0.000273
			128470	+02.063	02.54	+0.011	+0.13	+0.007	+0.03	+0.018	-0.02	-0.063768	-0.064754	-0.065777
			128452	+36.707	03.20	-0.034	-0.69	-0.031	-0.77	-0.031	-0.94	+0.421165	+0.422658	+0.423941
58	59	60	146973	+12.864	07.65	+0.007	-0.09	+0.007	-0.09	+0.007	-0.04	+0.002602	+0.000665	-0.001581
			128449	+18.421	04.14	+0.017	-0.44	+0.022	-0.31	+0.024	-0.43	+0.079519	+0.077959	+0.076246
			128434	+17.079	47.85	-0.019	+0.44	+0.024	+0.33	-0.026	+0.40	+0.429616	+0.431460	+0.433560
			146970	+01.163	49.77	+0.012	-0.27	+0.015	-0.20	+0.016	-0.25	+0.521090	+0.524557	+0.528580
			146982	+17.791	18.96	-0.017	+0.37	-0.021	+0.28	-0.022	+0.31	-0.032827	-0.034641	-0.036806
61	62	63	128434	+17.079	47.85	-0.002	+0.18	-0.002	+0.18	-0.000	+3.88	+0.458043	+0.458567	+0.459075
			146973	+12.864	07.65	-0.001	-0.22	-0.008	-0.25	-0.008	-0.97	+0.027491	+0.026505	+0.025349
			146974	+19.023	49.79	+0.015	-0.45	+0.038	-0.31	+0.020	+0.57	+0.002661	-0.002973	-0.003700
			146948	+09.034	11.58	+0.004	-0.26	+0.006	-0.23	+0.002	-8.88	+0.459245	+0.460931	+0.462638
			146970	+01.163	49.77	-0.017	+0.75	-0.027	+0.62	-0.014	+0.88	+0.057282	+0.056970	+0.056647
64	65	66	128569	+30.022	52.45	+0.002	-0.05	+0.008	-0.04	+0.003	-0.01	+0.543902	+0.544367	+0.544899
			147040	+08.729	44.46	+0.004	-0.15	+0.016	-0.11	+0.008	-0.02	-0.113347	-0.111671	-0.109749
			128556	+45.079	32.37	-0.009	+0.36	-0.029	+0.26	-0.019	+0.06	+0.110524	+0.112816	+0.119265
			128562	+41.122	08.55	-0.004	-0.12	-0.018	-0.11	-0.003	-0.07	+0.198931	+0.197962	+0.196915
			128567	+11.566	20.11	+0.007	-0.03	+0.025	-0.00	+0.009	+0.03	+0.251991	+0.250505	+0.248669
67	68	69	147047	+39.891	51.41	+0.024	+0.22	+0.016	+0.35	+0.012	+0.43	+0.442603	+0.444048	+0.445543
			147043	+24.345	57.87	-0.006	+0.14	-0.006	-0.15	-0.007	-0.18	-0.095065	-0.094379	-0.093730
			128556	+45.079	32.37	-0.051	-0.57	-0.033	-0.64	-0.025	-0.79	+0.411279	+0.411217	+0.411124
			128567	+11.566	20.11	+0.022	+0.25	+0.014	+0.27	+0.011	+0.33	+0.533113	+0.531138	+0.529119
			128542	+32.709	12.46	+0.007	-0.04	+0.005	+0.17	+0.005	+0.21	-0.291930	-0.292025	-0.292056
70	71	72	128569	+30.022	52.45	+0.000	+0.02	+0.003	-0.11	+0.001	-0.04	+0.449718	+0.446574	+0.449481
			128556	+45.079	32.37	-0.040	-0.62	-0.025	-0.74	-0.027	-0.59	+0.184644	+0.185111	+0.185507
			147047	+39.891	51.41	+0.012	+0.27	+0.004	+0.41	+0.008	+0.27	+0.464426	+0.465679	+0.466935
			128567	+11.566	20.11	+0.042	+0.89	+0.034	+0.43	+0.030	+0.48	-0.014541	-0.014854	-0.015301
			128581	+34.282	25.06	-0.016	-0.36	-0.017	-0.00	-0.012	-0.11	-0.083246	-0.084511	-0.085623
73	74	75	147023	+37.863	17.47	-0.013	-0.51	-0.010	-0.46	-0.031	-0.46	+0.877668	+0.880178	+0.883155
			147025	+54.000	24.68	+0.020	+0.70	+0.013	+0.75	+0.039	+0.71	+0.379931	+0.380475	+0.380602
			147043	+24.345	57.87	-0.015	-0.66	-0.011	-0.54	-0.041	-0.57	-0.294545	-0.296518	-0.298427
			147040	+08.729	44.46	-0.021	-0.05	-0.015	-0.48	-0.001	-0.31	+0.056149	+0.055698	+0.055068
			147047	+39.891	51.41	+0.022	+0.52	+0.015	+0.73	+0.027	+0.63	-0.019203	-0.019793	-0.020398
76	77	78	128569	+30.022	52.45	+0.002	-0.05	+0.005	-0.24	+0.003	-0.01	+0.045154	+0.044725	+0.044319
			147040	+08.729	44.46	+0.004	-0.15	+0.016	-0.11	+0.008	-0.02	+0.549711	+0.551089	+0.552493
			128556	+45.079	32.37	-0.009	+0.36	-0.029	+0.26	-0.019	+0.06	+0.281384	+0.281762	+0.282057
			128562	+41.122	08.55	-0.004	-0.12	-0.018	-0.11	-0.003	-0.07	+0.107576	+0.107156	+0.106662
			128567	+11.566	20.11	+0.007	-0.03	+0.025	-0.00	+0.009	+0.03	+0.016175	+0.015267	+0.014469
79	80	81	147043	+24.345	57.87	-0.016	-0.20	-0.021	-0.10	-0.025	-0.12	-0.220090	-0.221106	-0.222048
			128556	+45.079	32.37	+0.015	+0.17	+0.017	+0.10	+0.021	+0.12	+0.190213	+0.188384	+0.186523
			147040	+08.729	44.46	-0.022	-0.42	-0.040	-0.14	-0.045	-0.18	+0.459142	+0.459936	+0.460868
			147038	+01.512	58.69	-0.022	+0.07	-0.002	-0.13	-0.009	-0.16	+0.322038	+0.322868	+0.323651
			147034	+36.368	15.05	+0.040	+0.38	+0.040	+0.27	+0.052	+0.34	+0.248698	+0.249918	+0.251006
82	83	84	128537	+53.817	21.84	+0.004	+0.23	+0.056	+0.14	+0.004	+0.15	+0.084964	+0.084724	+0.084572
			147028	+05.325	20.00	+0.015	+0.59	-0.018	+0.57	+0.005	+0.57	+0.155822	+0.156943	+0.157882
			128542	+32.709	12.46	-0.017	-0.59	-0.038	-0.50	-0.010	-0.52	+0.008538	+0.007303	+0.006158
			147047	+39.891	51.41	+0.006	+0.28	+0.001	+0.26	+0.002	+0.26	+0.348036	+0.346589	+0.345318
			147023	+37.863	17.47	-0.015	-0.51	-0.008	-0.46	-0.008	-0.47	+0.402639	+0.404442	+0.406071
85	86	87	147023	+37.863	17.47	+0.024	-0.43	+0.020	-0.50	+0.054	-0.63	+0.517837	+0.517829	+0.517817
			147038	+01.512	58.69	-0.029	+0.42	-0.024	+0.49	-0.061	+0.64	+0.350399	+0.349662	+0.348836
			147004	+30.935	22.99	+0.000	+0.40	+0.002	-0.43	-0.014	+0.49	+0.224346	+0.225565	+0.226809
			147025	+54.000	24.68	-0.036	-0.77	-0.036	-0.78	-0.029	-0.79	-0.016419	-0.016399	-0.016345
			128537	+53.817	21.84	+0.040	+0.38	+0.038	+0.35	+0.050	+0.28	-0.076163	-0.076656	-0.077117
88	89	90	147004	+30.935	22.99	-0.062	-0.24	-0.053	-0.42	-0.055	-0.26	+0.506531	+0.507845	+0.509001
			147012	+36.479	43.61	+0.029	+0.55	+0.014	+0.48	+0.017	+0.41	+0.434810	+0.435272	+0.435602
			147018	+12.690	30.16	+0.049	-0.56	+0.062	-0.15	+0.058	-0.29	+0.234789	+0.234745	+0.234789
			147025	+54.000	24.68	+0.045	+0.45	+0.032	+0.49	+0.035	+0.37	-0.033482	-0.033816	-0.034115
			147040	+08.729	44.46	-0.061	-0.20	-0.054	-0.39	-0.055	-0.23	-0.142648	-0.144046	-0.145277
91	92	93	147004	+30.935	22.99	-0.016	-0.34	-0.022	-0.30	-0.021	-0.17	+0.343288	+0.344064	+0.344722
			146989	+16.186	17.94	+0.008	+0.12	+0.008	+0.08	+0.002	+0.00	+0.509829	+0.510889	+0.511975
			147012	+36.479	43.61	+0.011	+0.40	+0.023	+0.42	+0.044	+0.41	+0.145545	+0.144959	+0.144466
			147023	+37.863	17.47	-0.015	-0.51	-0.030	-0.52	-0.051	-0.47	+0.002940	+0.002056	+0.001283
			147025	+54.000	24.68	+0.013	+0.33	+0.020	+0.31	+0.027	+0.23	-0.001602	-0.001969	-0.002476

TABLE 2 (CONTINUED)

Observations	No. S40	Positions Used		Star Residuals						Dependences		
		s	"	s	"	s	"	s	"			
94 95 96	146974	+19.023	49.79	-0.006	-0.00	-0.000	+0.02	-0.005	-0.02	+0.144869	+0.146200	+0.147429
	146982	+17.791	18.96	-0.010	+0.06	-0.009	-0.04	-0.007	+0.12	+0.178693	+0.179295	+0.179902
	146989	+16.186	17.94	+0.054	-0.14	+0.024	+0.01	+0.043	-0.21	+0.209285	+0.209073	+0.208918
	146996	+37.317	40.97	-0.030	+0.05	-0.010	+0.02	-0.024	+0.06	+0.221788	+0.221351	+0.220973
	147004	+30.935	22.99	-0.009	+0.03	-0.005	-0.01	-0.007	+0.05	+0.245365	+0.244081	+0.242779
97 98 99	147018	+12.690	30.16	+0.025	+0.03	+0.028	+0.11	+0.022	-0.14	-0.103208	-0.104010	-0.104720
	147012	+36.479	43.61	+0.011	+0.11	+0.006	-0.04	+0.020	+0.27	+0.109918	+0.109702	+0.109436
	146996	+37.317	40.97	-0.024	-0.13	-0.020	-0.01	-0.032	-0.22	+0.399622	+0.400106	+0.400679
	147004	+30.935	22.99	-0.036	-0.10	-0.036	-0.10	-0.037	+0.01	+0.052398	+0.050227	+0.051622
	146974	+19.023	49.79	+0.024	+0.09	+0.023	+0.05	+0.027	+0.08	+0.541269	+0.542175	+0.542983
100 101 102	128481	+52.902	11.09	-0.006	+0.18	-0.010	+0.16	-0.014	+0.24	-0.025129	-0.025042	-0.024993
	146974	+19.023	49.79	-0.015	-0.34	+0.024	-0.30	+0.030	-0.43	+0.373208	+0.374470	+0.375758
	146982	+17.791	18.96	-0.024	+0.32	-0.035	+0.28	-0.039	+0.34	+0.370394	+0.370833	+0.371268
	146989	+16.186	17.94	+0.012	+0.07	+0.015	+0.07	+0.009	+0.18	+0.261964	+0.261566	+0.261184
	147004	+30.935	22.99	+0.003	-0.22	+0.007	-0.21	+0.013	-0.33	+0.019563	+0.018173	+0.016783
103 104 105	146970	+01.163	49.77	-0.003	-0.08	+0.010	-0.00	+0.017	-0.15	+0.441737	+0.442657	+0.443862
	146982	+17.791	18.96	-0.014	+0.13	-0.021	+0.07	-0.028	+0.15	+0.299752	+0.299934	+0.300193
	146973	+12.864	07.65	+0.001	+0.02	-0.001	-0.01	-0.003	+0.05	+0.167316	+0.167947	+0.168598
	147004	+30.935	22.99	-0.003	-0.03	+0.000	+0.03	+0.004	-0.08	-0.088968	-0.090272	-0.091892
	146989	+16.186	17.94	+0.013	-0.03	+0.011	-0.08	+0.009	+0.04	+0.180163	+0.179735	+0.179237
106 107 108	146948	+09.034	11.58	+0.001	-0.04	+0.001	-0.09	+0.002	-0.08	+0.383993	+0.385019	+0.386059
	146974	+19.023	49.79	-0.008	+0.03	-0.006	-0.02	-0.011	+0.02	+0.449580	+0.449769	+0.449936
	146996	+37.317	40.98	-0.016	+0.08	-0.013	+0.01	-0.024	+0.08	-0.060759	-0.061387	-0.061928
	146982	+17.791	18.96	+0.007	+0.13	+0.004	+0.42	+0.005	+0.33	+0.157072	+0.156996	+0.156850
	146989	+16.186	17.94	+0.016	-0.19	+0.014	-0.32	+0.028	-0.35	+0.070114	+0.069603	+0.069083
109 110 111	109000	+29.623	34.30	-0.018	+0.25	+0.015	+0.15	+0.027	+0.14	+0.445320	+0.444846	+0.444480
	108991	+05.124	27.04	-0.016	+0.28	+0.018	+0.31	+0.019	+0.14	+0.174884	+0.175110	+0.175315
	108997	+12.578	30.77	-0.027	-0.43	-0.027	-0.40	-0.036	-0.23	+0.502533	+0.502094	+0.501665
	126542	+32.709	12.46	-0.007	-0.09	-0.007	-0.10	-0.008	-0.05	-0.631574	-0.630083	-0.628693
	128581	+34.282	25.06	-0.001	-0.00	-0.000	+0.03	-0.004	-0.01	+0.508837	+0.508033	+0.507233
112 113 114	108991	+05.124	27.04	+0.039	+0.20	+0.048	+0.21	+0.040	+0.27	+0.153882	+0.154233	+0.154619
	108997	+12.578	30.77	-0.043	-0.24	-0.054	-0.26	-0.045	-0.32	+0.252613	+0.251836	+0.251226
	109023	+06.223	57.57	+0.005	+0.28	+0.004	+0.32	+0.008	+0.27	+0.334266	+0.332853	+0.331501
	109015	+34.087	05.35	+0.014	-0.25	+0.020	-0.30	+0.010	-0.20	+0.248054	+0.247639	+0.247193
	109000	+29.623	34.30	-0.014	+0.02	-0.019	+0.03	-0.014	-0.02	+0.011186	+0.013439	+0.015460
115 116 117	128567	+11.566	20.11	+0.027	-0.91	+0.017	+0.40	+0.021	+0.47	-0.183606	-0.183646	-0.183375
	128581	+34.282	25.06	-0.014	-0.97	-0.012	-0.47	-0.012	-0.52	+0.194750	+0.194519	+0.194122
	109000	+29.623	34.30	-0.001	+0.36	+0.003	+0.20	+0.001	+0.20	+1.112304	+1.111200	+1.110038
	128542	+32.709	12.46	-0.023	-0.02	-0.010	+0.07	-0.017	+0.02	-0.304688	-0.303874	-0.303132
	128528	+00.692	16.28	+0.008	-0.28	-0.000	-0.18	+0.004	-0.17	+0.181240	+0.181801	+0.182346
118 119 120	128522	+26.452	38.02	-0.001	-0.06	+0.011	-0.01	+0.006	-0.17	+0.291256	+0.291768	+0.292254
	128537	+53.817	21.84	+0.045	+0.45	+0.036	+0.47	+0.035	+0.56	-0.193854	-0.193341	-0.192744
	109000	+29.623	34.30	-0.011	+0.11	+0.004	+0.10	+0.006	+0.18	+0.896387	+0.895391	+0.894340
	128567	+11.566	20.11	+0.001	-0.07	+0.016	-0.00	+0.009	-0.20	+0.019963	+0.019720	+0.019325
	128542	+32.709	12.46	-0.053	-0.43	-0.065	-0.56	-0.054	-0.36	-0.013751	-0.013539	-0.013176
121 122 123	147025	+54.000	24.68	-0.000	-0.00	-0.007	+0.01	-0.006	-0.04	-0.986400	-0.983749	-0.981010
	128528	+00.692	16.28	-0.011	-0.28	-0.026	-0.10	-0.033	-0.27	+0.701688	+0.700856	+0.699909
	128522	+26.452	38.02	+0.003	+0.08	+0.027	-0.01	+0.028	+0.18	+0.336176	+0.336619	+0.336921
	128556	+45.079	32.37	-0.007	-0.23	+0.006	-0.13	-0.002	-0.08	+0.364714	+0.363840	+0.362678
	128542	+32.710	12.46	+0.017	+0.43	+0.001	+0.23	+0.015	+0.21	+0.583822	+0.582435	+0.581502
124 125 126	128537	+53.817	21.84	+0.008	+0.12	-0.000	+0.11	+0.008	+0.11	+0.121247	+0.120762	+0.120410
	128542	+32.710	12.46	+0.004	+0.01	+0.001	+0.04	+0.007	-0.03	+0.631336	+0.628713	+0.626096
	147025	+54.000	24.68	-0.009	-0.11	-0.000	-0.11	-0.012	-0.07	-0.566302	-0.563511	-0.560896
	128528	+00.692	16.28	-0.027	-0.25	-0.003	-0.31	-0.038	-0.12	+0.555453	+0.555047	+0.554214
	128522	+26.452	38.02	+0.024	+0.23	+0.003	+0.29	+0.034	+0.11	+0.258266	+0.258988	+0.260176
127 128 129	128522	+26.452	38.02	+0.025	+0.18	+0.025	-0.01	+0.025	+0.20	+0.419626	+0.420645	+0.421753
	128528	+00.692	16.28	-0.028	-0.20	-0.027	+0.01	-0.028	-0.22	+0.461472	+0.460815	+0.460059
	128542	+32.710	12.46	+0.007	+0.04	+0.010	-0.04	+0.006	+0.03	+0.178552	+0.178593	+0.178813
	128537	+53.817	21.84	+0.005	+0.05	-0.000	+0.08	+0.006	+0.09	+0.036994	+0.036749	+0.036520
	147028	+05.325	20.00	-0.009	-0.07	-0.007	-0.03	-0.010	-0.10	-0.096644	-0.093901	-0.091145
130 131 132	128470	+02.063	02.54	-0.014	+0.01	-0.007	+0.08	-0.007	+0.00	-0.084074	-0.082843	-0.081467
	128481	+52.902	11.09	+0.004	+0.04	+0.007	+0.12	+0.012	-0.01	+0.181302	+0.180717	+0.179998
	128522	+26.452	38.02	-0.030	+0.11	+0.026	+0.19	+0.040	-0.04	+0.360676	+0.360424	+0.360319
	128528	+00.692	16.28	-0.029	-0.09	-0.024	-0.14	-0.036	+0.03	+0.463814	+0.463033	+0.462134
	128485	+03.666	51.89	-0.009	-0.07	-0.003	-0.25	-0.009	+0.02	+0.078282	+0.078669	+0.079017
133 134 135	128542	+32.710	12.46	-0.000	+0.06	+0.005	-0.14	-0.006	-0.07	+0.074030	+0.073508	+0.073059
	128537	+53.817	21.84	+0.004	+0.04	+0.005	+0.06	+0.007	+0.07	-0.029589	-0.029785	-0.029987
	147028	+05.325	20.00	-0.004	-0.10	-0.010	+0.08	-0.001	+0.00	-0.092728	-0.092591	-0.092535
	128528	+00.692	16.28	-0.001	-0.03	-0.002	+0.04	+0.001	+0.01	+0.780835	+0.780358	+0.779848
	128481	+52.902	11.09	+0.001	+0.03	+0.003	-0.04	-0.001	-0.01	+0.267453	+0.268510	+0.269615
136 137 138	128522	+26.452	38.02	+0.001	+0.02	+0.001	-0.02	-0.003	+0.01	+0.663170	+0.661906	+0.660610
	147004	+30.935	22.99	-0.000	+0.17	-0.001	+0.09	+0.000	+0.12	+0.014946	+0.014570	+0.014234
	128481	+52.902	11.09	+0.001	-0.59	+0.006	-0.40	-0.007	-0.43	+0.076869	+0.077329	+0.077745
	128470	+02.063	02.54	+0.001	+0.41	+0.002	-0.14	-0.007	+0.27	+0.071198	+0.072015	+0.072859
	128485	+03.666	51.89	-0.003	-0.01	-0.008	+0.18	+0.015	+0.02	+0.173817	+0.174180	+0.174552

TABLE 2(CONTINUED)

			Positions Used		Star Residuals									
Observations	No. SAO		s	"	s	"	s	"	s	"	Dependences			
139	140	141	147028	+05.325	20.00	+0.023	+0.19	+0.012	+0.40	+0.006	+0.14	-0.056671	-0.056490	-0.056418
			128537	+53.817	21.84	-0.005	-0.09	-0.004	-0.07	-0.004	-0.06	-0.034714	-0.034886	-0.035068
			128542	+32.710	12.46	-0.017	-0.09	-0.007	-0.31	-0.001	-0.07	+0.025110	+0.024581	+0.024150
			128522	+26.452	38.02	+0.006	+0.05	+0.003	+0.12	+0.001	+0.03	+0.689641	+0.689127	+0.688571
			128481	+52.902	11.09	-0.008	-0.06	-0.004	-0.14	-0.001	-0.04	+0.376634	+0.377669	+0.378765
142	143	144	128470	+02.063	02.54	+0.007	+0.08	-0.003	+0.21	+0.002	+0.10	-0.571489	-0.568785	-0.565929
			128481	+52.902	11.09	-0.010	-0.48	-0.003	-0.44	-0.003	-0.34	-0.134385	-0.133181	-0.132033
			128485	+03.666	51.88	-0.004	+0.62	+0.013	+0.17	-0.001	+0.32	+0.294149	+0.293954	+0.293553
			147004	+30.935	22.99	+0.004	-0.01	-0.002	+0.09	+0.001	+0.02	+0.453325	+0.451840	+0.450381
			128484	+59.051	21.77	+0.002	-0.20	-0.005	-0.03	+0.001	-0.10	+0.958399	+0.956172	+0.954034
145	146	147	128542	+32.709	12.46	+0.003	+0.09	+0.005	+0.06	+0.005	+0.06	-0.066708	-0.066905	-0.067105
			128528	+00.692	16.28	-0.023	-0.17	-0.039	+0.05	-0.037	-0.18	+0.316257	+0.316881	+0.317387
			128522	+26.452	38.02	+0.011	+0.00	+0.024	-0.16	+0.022	+0.06	+0.374794	+0.375552	+0.376311
			108991	+05.124	27.04	+0.015	+0.41	+0.016	+0.35	+0.020	+0.26	+0.246328	+0.245943	+0.245594
			108997	+12.578	30.77	-0.011	-0.33	-0.031	-0.30	-0.014	-0.21	+0.129329	+0.128529	+0.127813
148	149	150	128522	+26.452	38.02	+0.016	+0.05	+0.022	+0.21	+0.027	+0.20	+0.502889	+0.503804	+0.504714
			128528	+00.692	16.28	-0.040	-0.09	-0.041	-0.33	-0.045	-0.37	+0.408267	+0.408799	+0.409371
			147028	+05.325	20.00	+0.032	+0.05	+0.021	+0.13	+0.015	+0.24	+0.013587	+0.013855	+0.014117
			128542	+32.709	12.46	-0.030	-0.04	-0.019	-0.10	-0.013	-0.20	-0.114319	-0.114935	-0.115553
151	152	153	128542	+32.709	12.46	-0.000	-0.38	+0.004	-0.29	+0.002	-0.33	-0.103223	-0.100015	-0.108654
			128528	+00.692	16.28	-0.019	-0.20	-0.028	-0.26	-0.024	-0.17	+0.523567	+0.522806	+0.521965
			128522	+26.452	38.02	+0.015	+0.20	+0.023	+0.25	+0.019	+0.17	+0.628240	+0.629193	+0.630140
			128537	+53.817	21.84	+0.008	+0.83	+0.005	+0.69	+0.006	+0.71	-0.066012	-0.066210	-0.066375
			147028	+05.325	20.00	-0.010	-0.45	-0.011	-0.40	-0.011	-0.39	+0.017427	+0.020226	+0.023104
154	155	156	147004	+30.935	22.99	+0.005	+0.14	+0.004	+0.12	+0.003	+0.10	+0.342630	+0.344076	+0.345498
			147025	+54.000	24.68	-0.036	-0.63	-0.035	-0.60	-0.033	-0.58	-0.151641	-0.152063	-0.152509
			128537	+53.817	21.84	+0.033	+0.49	+0.035	+0.50	+0.034	+0.51	-0.392695	-0.393919	-0.395155
			128522	+26.452	38.02	+0.035	+0.24	+0.044	+0.37	+0.045	+0.48	+0.700756	+0.701077	+0.701474
			128528	+00.692	16.28	-0.037	-0.25	-0.048	-0.39	-0.049	-0.51	+0.500950	+0.500829	+0.500692
157	158	159	128528	+00.692	16.28	-0.008	-0.17	-0.023	+0.02	-0.030	-0.13	+0.064543	+0.063855	+0.063168
			128522	+26.452	38.02	+0.009	+0.19	+0.026	-0.03	+0.035	+0.14	+0.113999	+0.113383	+0.112830
			128484	+59.051	21.77	-0.002	-0.09	-0.007	-0.07	-0.009	-0.08	+0.421814	+0.422149	+0.422324
			128485	+03.666	51.89	+0.002	+0.26	+0.013	+0.29	+0.016	+0.24	+0.228742	+0.229167	+0.229615
			128481	+52.902	11.09	-0.001	-0.19	-0.009	-0.21	-0.012	-0.18	+0.170903	+0.171446	+0.172063
160	161	162	128484	+59.051	21.77	-0.000	-0.06	-0.003	-0.17	-0.007	-0.13	+0.437573	+0.436306	+0.435025
			128460	+06.045	38.72	+0.001	-0.12	+0.005	-0.06	-0.003	-0.01	-0.001693	+0.000514	+0.002864
			128470	+02.063	02.54	-0.002	+0.28	-0.007	+0.20	+0.010	+0.09	+0.116034	+0.116696	+0.117452
			128485	+03.666	51.89	+0.002	+0.11	+0.013	+0.48	+0.021	+0.41	+0.271384	+0.270417	+0.269307
			128481	+52.902	11.09	-0.001	-0.20	-0.007	-0.46	-0.021	-0.36	+0.176702	+0.176067	+0.175352
163	164	165	128460	+06.045	38.72	-0.008	+0.31	+0.016	+0.35	+0.024	+0.29	+0.278804	+0.279659	+0.280539
			128452	+36.707	03.20	+0.007	-0.22	-0.012	-0.28	-0.018	-0.21	+0.185564	+0.186764	+0.187972
			128481	+52.902	11.09	-0.010	-0.27	-0.009	+0.05	-0.008	-0.23	+0.072652	+0.072184	+0.071435
			128485	+03.666	51.89	+0.010	+0.44	+0.016	+0.05	+0.018	+0.38	+0.134077	+0.133244	+0.132466
			128484	+59.051	21.77	+0.001	-0.26	-0.012	-0.17	-0.016	-0.23	+0.326703	+0.328149	+0.327589
166	167	168	128481	+52.902	11.09	-0.016	-0.29	-0.014	-0.29	-0.020	-0.29	-0.042049	-0.043786	-0.044662
			146973	+12.864	07.65	+0.024	+0.49	+0.022	+0.53	+0.024	+0.64	-0.157349	-0.156674	-0.155942
			128460	+06.045	38.72	+0.015	+0.36	+0.016	+0.45	+0.009	+0.61	+0.584050	+0.584557	+0.585163
			128470	+02.063	02.54	+0.011	+0.13	+0.007	+0.08	+0.018	-0.02	+0.338377	+0.337657	+0.336623
			128452	+36.707	03.20	-0.034	-0.69	-0.031	-0.77	-0.031	-0.94	+0.276970	+0.278245	+0.279617
169	170	171	128481	+52.902	11.09	+0.005	+0.06	+0.005	+0.04	-0.001	+0.18	-0.119571	-0.119020	-0.118606
			128470	+02.063	02.54	+0.002	+0.15	-0.002	-0.12	-0.019	+0.06	+0.169675	+0.169000	+0.168389
			128485	+03.666	51.89	-0.008	-0.17	-0.006	+0.02	+0.012	-0.28	-0.112352	-0.114207	-0.116304
			128449	+18.421	04.14	-0.006	-0.09	-0.005	-0.01	+0.005	-0.20	+0.616386	+0.618772	+0.621270
			128460	+06.045	38.72	+0.007	+0.05	+0.008	+0.08	+0.003	+0.23	+0.445862	+0.445515	+0.445251
172	173	174	146973	+12.864	07.65	+0.010	+0.05	+0.010	+0.01	+0.009	+0.04	+0.202780	+0.203617	+0.204423
			128434	+17.079	47.85	-0.010	+0.04	-0.005	-0.04	-0.009	-0.03	+0.821485	+0.822419	+0.823418
			128470	+02.063	02.54	+0.024	-0.22	+0.003	+0.12	+0.021	+0.04	+0.159231	+0.158955	+0.158507
			128481	+52.902	11.09	-0.030	-0.14	-0.030	-0.04	-0.025	-0.12	-0.097689	-0.098200	-0.098747
			128485	+03.666	51.88	+0.006	+0.27	+0.021	-0.06	+0.004	+0.06	-0.085807	-0.086791	-0.087601
175	176	177	109016	+34.874	43.00	-0.023	-0.46	-0.016	-0.66	-0.001	-0.56	-0.354749	-0.354676	-0.354919
			128581	+34.282	25.06	+0.013	+0.39	+0.001	+0.54	-0.014	+0.50	+0.225404	+0.227971	+0.227791
			128556	+45.079	32.37	-0.025	-0.49	-0.019	-0.71	-0.004	-0.60	+0.218620	+0.219889	+0.220784
			128567	+11.566	20.11	+0.035	+0.61	+0.031	+0.89	+0.013	+0.74	-0.150767	-0.150667	-0.150559
			128598	+16.348	53.55	-0.000	-0.05	+0.003	-0.06	+0.005	-0.07	+1.058491	+1.057482	+1.055403
178	179	180	128567	+11.566	20.11	-0.002	+0.24	+0.004	+0.15	-0.023	+0.05	+0.654694	+0.653287	+0.651692
			128542	+32.709	12.46	-0.006	-0.32	-0.010	-0.27	-0.010	-0.13	+0.173889	+0.173558	+0.173283
			128537	+53.817	21.84	+0.013	+0.17	+0.011	+0.19	+0.016	+0.12	-0.045165	-0.044703	-0.044246
			147038	+01.512	58.69	-0.008	+0.08	-0.004	+0.02	-0.023	-0.02	-0.233918	-0.232411	-0.233932
			128569	+30.022	52.45	+0.006	-0.16	+0.001	-0.09	+0.023	-0.02	+0.450499	+0.450269	+0.450203
181	182	183	128556	+45.079	32.37	+0.007	-0.03	+0.014	+0.21	+0.005	+0.12	+0.738839	+0.737540	+0.736222
			128542	+32.710	12.46	+0.021	+0.04	+0.021	+0.06	+0.026	+0.17	+0.090542	+0.090032	+0.089516
			147018	+12.620	30.16	+0.027	+0.02	+0.032	+0.23	+0.030	+0.28	-0.071285	-0.070055	-0.068816
			147025	+54.000	24.68	-0.028	-0.06	-0.028	-0.07	-0.034	-0.22	-0.206989	-0.206297	-0.205609
			147040	+08.729	44.46	-0.025	+0.03	-0.038	-0.42	-0.025	-0.34	+0.398893	+0.398780	+0.398687

TABLE 2 (CONTINUED)

Observations				No. <i>SAO</i>	Positions Used		Star Residuals						Dependences		
					s	"	s	"	s	"	s	"			
184	185	186	147023	+37.863	17.47	+0.007	-0.52	-0.008	-0.48	-0.016	-0.41	-0.355499	-0.053917	-0.052171	
			147025	+54.000	24.68	-0.009	+0.48	+0.008	+0.46	+0.018	+0.38	-0.221456	-0.220170	-0.218770	
			147047	+39.891	51.41	-0.004	+0.29	+0.005	+0.27	+0.009	+0.23	+0.215411	+0.214143	+0.212990	
			128537	+53.817	21.84	+0.003	+0.37	+0.003	+0.29	+0.004	+0.29	+0.129183	+0.128903	+0.128611	
			128542	+32.710	12.46	+0.003	-0.63	-0.008	-0.54	-0.015	-0.49	+0.332400	+0.331041	+0.329021	
187	188	189	147047	+39.891	51.41	+0.014	+0.36	+0.011	+0.24	+0.013	+0.20	+0.360295	+0.359544	+0.358713	
			147023	+37.863	17.47	-0.005	-0.09	-0.005	-0.08	-0.003	-0.07	+0.083430	+0.083648	+0.080185	
			147034	+36.368	15.05	+0.030	+0.61	+0.030	+0.48	+0.023	+0.46	+0.129903	+0.129421	+0.128995	
			147038	+01.512	58.69	-0.014	-0.02	-0.026	-0.20	-0.004	-0.26	+0.195949	+0.194799	+0.193750	
190	191	192	147040	+08.729	44.46	-0.026	-0.86	-0.009	-0.45	-0.028	-0.33	+0.230373	+0.229388	+0.228367	
			147034	+36.368	15.05	-0.013	+0.12	-0.018	+0.20	-0.014	+0.24	+0.524316	+0.523282	+0.522222	
			147018	+12.690	30.16	+0.046	-0.17	+0.057	-0.15	+0.043	-0.47	+0.332552	+0.332235	+0.331656	
			147012	+36.479	43.61	-0.028	-0.01	-0.030	-0.16	-0.022	+0.11	+0.448939	+0.448626	+0.448182	
193	194	195	146996	+37.317	40.97	+0.010	+0.07	+0.008	+0.20	+0.006	+0.07	-0.033032	-0.032257	-0.031356	
			147004	+30.935	22.99	-0.015	-0.01	-0.016	-0.09	-0.012	+0.06	-0.272776	-0.271886	-0.270904	
			128542	+32.710	12.46	-0.005	-0.44	-0.000	-0.60	-0.007	-0.51	-0.146960	-0.146238	-0.145328	
			128537	+53.817	21.84	+0.005	-0.02	+0.004	+0.14	+0.005	+0.09	+0.036518	+0.036334	+0.036204	
			147028	+05.325	20.00	+0.001	+0.67	-0.004	+0.71	+0.004	+0.64	+0.234187	+0.235447	+0.236513	
196	197	198	147047	+39.891	51.41	+0.001	+0.28	-0.001	+0.32	+0.003	+0.28	+0.267895	+0.266184	+0.264678	
			147023	+37.863	17.47	-0.003	-0.49	+0.002	-0.57	-0.005	-0.50	+0.608360	+0.610273	+0.611972	
			147004	+30.935	22.99	-0.005	-0.04	-0.005	-0.06	-0.006	-0.10	-0.040067	-0.039273	-0.038349	
			147013	+36.997	41.59	-0.005	-0.19	-0.005	+0.03	+0.005	+0.18	+0.137038	+0.138121	+0.139319	
199	200	201	147018	+12.690	30.16	+0.021	+0.23	+0.020	+0.23	+0.021	+0.32	+0.353560	+0.351672	+0.349630	
			147023	+37.863	17.47	-0.017	-0.17	-0.017	-0.20	-0.018	-0.29	+0.438597	+0.436076	+0.433210	
			147012	+36.479	43.61	+0.005	+0.16	+0.005	+0.00	-0.002	-0.10	+0.110813	+0.112404	+0.114091	
			147004	+30.935	22.99	-0.004	-0.06	-0.004	-0.06	-0.002	-0.05	+0.011847	+0.013215	+0.014556	
202	203	204	147013	+36.997	41.59	-0.008	-0.02	-0.003	-0.09	-0.013	-0.15	+0.169510	+0.170462	+0.171403	
			147012	+36.479	43.61	+0.008	+0.04	+0.004	+0.10	+0.011	+0.14	+0.159731	+0.161146	+0.162634	
			147018	+12.690	30.16	+0.019	+0.24	+0.016	+0.30	+0.016	+0.27	+0.296412	+0.294790	+0.293147	
			147023	+37.863	17.47	-0.015	-0.20	-0.013	-0.24	-0.012	-0.21	+0.362500	+0.360387	+0.359259	
			146996	+37.317	40.98	+0.020	+0.31	+0.002	+0.15	+0.017	+0.35	+0.619683	+0.619446	+0.619383	
205	206	207	147004	+30.935	22.99	-0.022	-0.46	-0.005	-0.28	-0.021	-0.42	+0.756413	+0.755336	+0.754220	
			128481	+52.902	11.09	+0.015	+0.46	+0.007	+0.34	+0.017	+0.32	+0.103855	+0.103251	+0.102772	
			146973	+12.864	07.65	-0.003	-0.42	-0.010	-0.40	-0.009	-0.14	-0.306356	-0.305575	-0.304855	
			146974	+19.023	49.79	-0.010	+0.12	+0.006	+0.20	-0.004	-0.12	-0.173594	-0.172458	-0.171520	
			128569	+30.022	52.45	+0.000	+0.02	+0.003	-0.11	+0.001	-0.04	+0.501927	+0.502153	+0.502374	
208	209	210	128556	+45.079	32.37	-0.040	-0.82	-0.025	-0.74	-0.027	-0.59	-0.067522	-0.067163	-0.066895	
			147047	+39.891	51.41	+0.012	+0.27	+0.004	+0.41	+0.008	+0.27	-0.243873	-0.242727	-0.241512	
			128567	+11.566	20.11	+0.042	+0.89	+0.034	+0.43	+0.030	+0.48	+0.235719	+0.235173	+0.234554	
			128581	+34.282	25.06	-0.016	-0.36	-0.017	+0.03	-0.012	-0.11	+0.573748	+0.572564	+0.571449	
			128542	+32.710	12.46	-0.005	-0.44	-0.000	-0.60	-0.007	-0.51	+0.696807	+0.695359	+0.693847	
211	212	213	128537	+53.817	21.84	+0.005	-0.02	+0.004	+0.14	+0.005	+0.09	+0.354394	+0.354055	+0.353703	
			147028	+05.325	20.00	+0.001	+0.67	-0.004	+0.71	+0.004	+0.64	-0.051707	-0.050726	-0.049666	
			147047	+39.891	51.41	+0.001	+0.28	-0.001	+0.32	+0.003	+0.28	+0.458470	+0.457204	+0.456015	
			147023	+37.863	17.47	-0.003	-0.49	+0.002	-0.57	-0.005	-0.50	-0.457964	-0.456593	-0.455300	
			128542	+32.710	12.46	+0.025	+0.17	+0.033	+0.07	+0.037	+0.30	+0.359583	+0.357234	+0.354795	
214	215	216	147043	+24.345	57.88	-0.039	-0.27	-0.053	-0.12	-0.060	-0.51	+0.407601	+0.405539	+0.403644	
			147034	+36.368	15.05	+0.029	+0.19	+0.039	+0.09	+0.043	+0.37	+0.184176	+0.183325	+0.182453	
			147028	+05.325	20.00	-0.015	-0.10	-0.021	-0.05	-0.023	-0.21	-0.111262	-0.108096	-0.104961	
			128537	+53.817	21.84	+0.001	+0.00	+0.003	+0.02	+0.002	+0.04	+0.159902	+0.158957	+0.158030	
			128542	+32.709	12.46	+0.003	+0.09	+0.005	+0.06	+0.005	+0.06	+0.739162	+0.739527	+0.739999	
217	218	219	128528	+00.692	16.28	-0.023	-0.17	-0.039	+0.05	-0.037	-0.18	+0.069719	+0.070010	+0.070427	
			128522	+26.452	38.02	+0.011	+0.00	+0.024	-0.16	+0.022	+0.06	-0.011867	-0.011354	-0.010939	
			108991	+05.124	27.04	+0.015	+0.41	+0.016	+0.35	+0.020	+0.26	+0.019461	+0.018981	+0.018499	
			108997	+12.578	30.77	-0.011	-0.33	-0.011	-0.30	-0.014	-0.21	+0.183544	+0.182836	+0.182104	
			128542	+32.709	12.46	-0.000	-0.38	-0.004	-0.29	-0.002	-0.33	+0.247068	+0.244764	+0.242416	
220	221	222	128528	+00.692	16.28	-0.019	-0.20	-0.028	-0.26	-0.024	-0.17	+0.083755	+0.082863	+0.081673	
			128522	+26.452	38.02	+0.015	+0.20	+0.023	+0.25	+0.019	+0.17	+0.081153	+0.081735	+0.082292	
			128537	+53.817	21.84	+0.008	+0.83	+0.005	+0.69	+0.006	+0.71	+0.281139	+0.281156	+0.281200	
			147028	+05.325	20.00	-0.010	-0.45	-0.011	-0.40	-0.011	-0.39	+0.306884	+0.309482	+0.312216	
			147004	+30.935	22.99	+0.005	+0.14	+0.004	+0.12	+0.003	+0.10	+0.214530	+0.215851	+0.217195	
223	224	225	147025	+54.000	24.68	-0.036	-0.63	-0.035	-0.60	-0.033	-0.58	+0.305785	+0.305578	+0.305315	
			128537	+53.817	21.84	+0.033	+0.49	+0.035	+0.50	+0.034	+0.51	+0.355274	+0.354436	+0.353488	
			128522	+26.452	38.02	+0.035	+0.24	+0.044	+0.37	+0.045	+0.48	+0.037792	+0.037840	+0.037959	
			128528	+00.692	16.28	-0.037	-0.25	-0.048	-0.39	-0.049	-0.51	+0.086619	+0.086301	+0.086042	
			147004	+30.935	22.99	-0.062	-0.24	-0.053	-0.42	-0.055	-0.26	+0.584226	+0.584805	+0.585553	
226	227	228	147012	+36.479	43.61	+0.029	+0.55	+0.014	+0.48	+0.017	+0.41	+0.009972	+0.011057	+0.012039	
			147018	+12.690	30.16	+0.049	-0.56	+0.062	-0.15	+0.058	-0.29	+0.146892	+0.147129	+0.147284	
			147025	+54.000	24.68	+0.045	+0.45	+0.032	+0.49	+0.035	+0.37	+0.416808	+0.415776	+0.414713	
			147040	+08.729	44.46	-0.061	-0.20	-0.054	-0.39	-0.055	-0.23	-0.157900	-0.158767	-0.159588	
			147004	+30.935	22.99	-0.016	-0.34	-0.022	-0.30	-0.021	-0.17	+0.457277	+0.457481	+0.457591	
226	227	228	146989	+16.186	17.94	+0.008	+0.12	+0.008	+0.08	+0.002	+0.00	+0.378031	+0.376985	+0.376896	
			147012	+36.479	43.61	+0.011	+0.40	+0.023	+0.42	+0.044	+0.41	-0.070391	-0.070224	-0.069987	
			147023	+37.863	17.47	-0.015	-0.51	-0.030	-0.52	-0.051	-0.47	-0.073183	-0.073512	-0.073715	
			147025	+54.000	24.68	+0.013	+0.33	+0.020	+0.31	+0.027	+0.23	+0.308266	+0.307270	+0.306215	

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TABLE 2(CONTINUED)

			No. <i>SAO</i>	Positions Used		Star Residuals						Dependences		
				s	"	s	"	s	"	s	"			
229 230 231			146974	+19.023	49.79	-0.006	-0.00	-0.000	+0.02	-0.005	-0.02	+0.128650	+0.129140	+0.129603
			146982	+17.791	18.96	-0.010	+0.06	-0.009	-0.04	-0.007	+0.12	+0.005772	+0.006659	+0.007567
			146989	+16.186	17.94	+0.054	-0.14	+0.024	+0.01	+0.043	-0.21	+0.159287	+0.159413	+0.159531
			146996	+37.317	40.97	-0.030	+0.05	-0.010	+0.02	-0.024	+0.06	+0.080087	+0.080574	+0.080971
			147004	+30.935	22.99	-0.009	+0.03	-0.005	-0.01	-0.007	+0.05	+0.626205	+0.624215	+0.623327
232 233 234			147018	+12.690	30.16	+0.025	+0.03	+0.028	+0.11	+0.022	-0.14	+0.045451	+0.044465	+0.043570
			147012	+36.479	43.61	+0.011	+0.11	+0.006	-0.04	+0.020	+0.27	+0.101593	+0.101856	+0.102142
			146996	+37.317	40.97	-0.024	-0.13	-0.020	-0.01	-0.032	-0.22	+0.257191	+0.258277	+0.259399
			147004	+30.935	22.99	-0.036	-0.10	-0.036	-0.10	-0.037	+0.01	+0.171863	+0.170910	+0.169937
			146974	+19.023	49.79	+0.024	+0.09	+0.023	+0.05	+0.027	+0.08	+0.423902	+0.424472	+0.424953

stored plates which may suffer, with time, irreparable damage.

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