1913phae.proj.2145c

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Thursday, Feb. 13, 1913.

Time: 9.50 — = 38330 long disp.

No	Int.	Class	Remarks
1	4	Ly	E.
2	2	F5	E.
3	1	A2	
4	2	K0	
5	4	F5	
6	5	F5	
7	2	Ly0	
8	1	F5	
9	2	K0	
10	2	G	
11	3	F2	
12	5	F0	
13	4	F5	
14	3	F5	
15	3	F8	
16	3	F0	
17	4	Ly0	
18	2	Ly	
19	2	F0	
20	2	F2	
21	2	F5	
22	2	Ly0	
23	1	Ly0	
24	1	Ly5	
25	1	F2	
26	1	F2	
27	5	F5	

1	+85°	63	3	52.4	+85	9.9	6.5	1 ✓
2	+85°	65	3	7.8	+85	22.1	8.5	1 ✓
3	+84°	90	4	31.3	+84	40.6	9.1	1 ✓
4	+84°	93	4	34.8	+84	58.1	8.5	1 ✓
5	+84°	97	4	45.5	+84	40.9	8.8	1 ✓
6	+83°	137	4	53.8	+83	39.4	8.7	1 ✓
7	+83°	139	4	58.3	+83	15.0	9.0	1 ✓
8	+83°	142	5	7.4	+83	13.3	9.0	1 ✓
9	+83°	144	5	5.9	+83	0.7	9.2	1 ✓
10	+83°	145	5	8.8	+83	18.3	9.3	1 ✓
11	+84°	106	5	4.7	+84	11.0	8.9	1 ✓
12	+83°	149	5	19.2	+83	31.9	8.7	1 ✓
13	+84°	114	5	34.4	+84	4.5	8.9	1 ✓
14	+84°	117	5	37.2	+84	6.5	9.0	1 ✓
15	+84°	118	5	41.6	+84	11.1	8.8	1 ✓
16	+83°	164	5	58.1	+83	49.4	8.9	1 ✓
17	+82°	168	6	3.6	+82	36.7	8.5	1 ✓
18	+82°	174	6	10.0	+82	21.8	9.0	1 ✓
19	+82°	176	6	13.6	+82	31.3	8.8	1 ✓
20	+81°	222	6	16.8	+81	55.9	9.2	1 ✓
21	+81°	225	6	20.6	+81	15.7	8.4	1 ✓
22	+81°	227	6	29.9	+81	5.1	8.8	1 ✓
23	+81°	228	6	36.4	+81	11.6	9.1	1 ✓
24	+81°	231	6	40.2	+81	23.7	8.9	1 ✓
25	+82°	191	6	36.6	+82	3.1	9.0	1 ✓
26	+81°	233	6	42.2	+81	46.8	9.1	1 ✓
27	+82°	194	6	44.8	+82	39.1	8.0	1 ✓

cards made out

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Thursday, Feb. 13, 1913.

I 37330 long disp.

No	Int.	Class	Remark
28	2	K2	
29	1	K0	
30	1	K2	
31	2	G0	
32	1	K0	
33	1	G5	
34	3	K2	
35	3	A2	
36	3	G0	
37	1	A	
38	1	Ma	
39	1	K2	
40	3	K0	
41	1	K	
42	3	As	
43	3	F2	
44	2	K2	
45	2	F	Time: 10.07
46			
47			
48			
49			
50			
46	4	K0	
47	6	B5	
48	5	K0	
49	2	G0	

28	+82°	188	6	30.0	+82	25.1	8.7	1 ✓
29	+83°	177	6	37.2	+83	12.2	9.0	1 ✓
30	+82°	185	6	27.2	+82	38.4	8.7	1 ✓
31	+81°	201	5	41.2	+81	30.8	8.8	1 ✓
32	+81°	210	5	49.3	+81	57.9	8.7	1 ✓
33	+81°	214	5	54.4	+81	46.9	9.0	1 ✓
34	+80°	207	6	3.5	+80	21.1	8.3	1 ✓
35	+79°	218	6	34.9	+79	7.8	9.1	1 ✓
36	+79°	222	6	38.4	+79	20.0	8.0	1 ✓
37	+79°	225	6	44.2	+79	37.6	9.2	1 ✓
38	+79°	226	6	44.4	+79	27.3	8.7	1 ✓
39	+79°	234	7	3.4	+79	34.5	8.7	1 ✓
40	+79°	233	7	2.5	+79	22.3	8.5	1 ✓
41	+79°	239	7	8.6	+79	25.9	8.7	1 ✓
42	+79°	237	7	6.4	+79	9.1	8.3	1 ✓
43	+81°	243	6	59.7	+81	13.8	9.0	1 ✓
44	+81°	239	6	53.8	+81	6.2	7.8	1 ✓
45	+83°	195	7	22.2	+83	2.7	9.0	1 ✓

Identified by AMC. Feb. 26, 1913

Checked March. 14. 1913 HDW

cards made out by M. C. W.

46	+80°	210	6	8.6	+80	39.2	7.2 ✓	
✓ 47	+78	240	6	58.7	+78	59	6.7	1 ✓ on I 37557
✓ 48	+80	236	6	57.4	+80	52	7.8	2 ✓ on I 37566
✓ 49	+77	209	5	25.1	+77	1	8.8	9 ✓ on I 37588

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Thursday Feb. 13, 1913

Time 3.08

I 3785 Long.

No.	Dist.	Class	Remarks
1	9	K0	E
2	4	B2	H& Bright?
3	1	A	
4	2	F2	
5	2	A2	
6	4	B9	
7	2	K2	
8	1	K	
9	3	K0	
10	3	A2	
11	3	A3	
12	3	K2	
13	2	K5	
14	6	A5	
15	2	A0	
16	2	K2	
17	5	B8	
18	4	B9	
19	5	B2	H& not well seen. Maybe bright.
20	3	F0	
21	2	A0	
22	8	A3 & Pec.	Metallic lines sharp, also hydrogen. Comp?
23	3	K0	
24	5	K0	
25	2	A0	
26	2	A0	
27	7	B9	

1	+51°	3358	22	17.9	+51	30.1	4.7	✓
2	+51°	3341	22	14.7	+51	7.9	7.5	✓
3	+51°	3337	22	14.4	+51	2.1	8.4	✓
4	+51°	3334	22	14.2	+51	16.6	7.5	✓
5	+52°	3185	22	15.2	+52	3.0	8.7	✓
6	+52°	3182	22	14.4	+52	8.6	8.0	✓
7	+52°	3181	22	14.2	+52	9.0	7.5	✓
8	+51°	3329	22	13.5	+51	57.0	8.2	✓
9	+51°	3324	22	13.1	+51	55.9	7.5	✓
10	+52°	3168	22	11.6	+52	16.8	8.1	✓
11	+52°	3158	22	9.2	+52	30.7	8.5	✓
12	+52°	3152	22	8.8	+52	13.1	7.9	✓
13	+52°	3149	22	8.4	+52	33.1	7.6	✓
14	+53°	3146	22	7.9	+52	26.2	7.1	✓
15	+52°	3150	22	8.5	+52	32	8.2	✓
16	+51°	3298	22	8.9	+51	47.5	7.3	✓
17	+51°	3295	22	8.2	+51	40.2	8.0	✓
18	+51°	3293	22	8.1	+51	50.8	8.0	✓
19	+51°	3281	22	6.2	+51	43.6	7.7	✓
20	+52°	3132	22	6.0	+52	16.2	8.5	✓
21	+52°	3126	22	5.0	+52	40.4	9.0	✓
22	+52°	3114	22	2.1	+52	35.5	6.2	✓
23	+52°	3112	22	1.5	+52	26.2	7.9	✓
24	+52°	3105	22	0.6	+53	55.0	7.2	✓
25	+53°	2777	21	59.5	+53	13.8	8.8	✓
26	+53°	2781	22	0.1	+53	39.7	8.9	✓
27	+54°	2677	21	58.2	+54	10.8	7.2	✓

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Thursday Feb. 13, 1913

I 37351

No	Int.	Class	Remarks
28	4	B5	
29	2	A0	
30	3	A0	
31	2	B9	
32	5	F8	
33	2	A	Partly superposed on 32
34	4	B9	
35	2	A0	
36	2	K0	
37	6	K0	
38	2	F2	
39	2	A0	
40	3	F2	
41	2	F2	
42	2	A0	
43	1	K0	
44	3	A2	
45	6	F5	
46	1	K5	
47	2	A0	
48	7	A2	
49	5	K0	
50	2	A5	
51	7	B8	
52	5	K0	
53	1	B5	
54	10	B8	

28	+53°	2661	21	55.0	+54	19.6	7.8	✓
29	+53°	2768	21	56.4	+53	5.7	7.9	✓
30	+53°	2767	21	56.3	+53	17.0	8.4	✓
31	+53°	2766	21	55.7	+53	27.6	9.0	✓
32	+53°	2759	21	54.9	+53	24.8	7.5	✓
33	+53°	2758	21	54.7	+53	22.7	8.8	✓
34	+53°	2752	21	53.6	+53	32.9	8.5	✓
35	+52°	3070	21	51.6	+52	46.4	8.7	✓
36	+52°	3068	21	51.3	+52	44.9	8.3	✓
37	+52°	3063	21	50.4	+52	33.9	6.5	✓
38	+52°	3065	21	50.7	+52	13.1	8.3	✓
39	+51°	3194	21	51.3	+51	50.3	8.3	✓
40	+51°	3187	21	50.3	+51	50.4	7.6	✓
41	+51°	3183	21	48.9	+51	38.8	8.3	✓
42	+52°	3056	21	49.0	+52	17.0	8.5	✓
43	+52°	3057	21	49.3	+52	40.5	8.3	✓
44	+53°	2737	21	50.0	+53	1.8	8.4	✓
45	+53°	2735	21	49.9	+53	14.8	7.2	✓
46	+53°	2740	21	50.1	+53	29.1	8.0	✓
47	+53°	2732	21	48.9	+53	36.9	8.9	✓
48	+53°	2727	21	48.3	+53	18.7	6.5	✓
49	+54°	2638	21	47.4	+54	0.1	6.7	✓
50	+53°	2724	21	47.2	+53	48.0	8.7	✓
51	+54°	2640	21	47.6	+54	21.9	7.0	✓
52	+55°	2641	21	48.2	+55	31.2	7.2	✓
53	+55°	2640	21	48.0	+55	14.5	9.2	✓
54	+55°	2639	21	47.1	+55	5.8	7.5	✓

cards made out 7.1 6.0

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Thursday Feb 13, 1913

I 37351

No	Dist.	class	Remarks
55	6	B2	
56	1	Q3	
57	1	K5	
58	1	Q21	
59	1	Q3	
60	21	K0	
61	6	F0	
62	21	Q21	
63	3	Q0	
64	21	K0	
65	7	B8	
66	21	Q21	
67	5	F8	
68	4	B8	
69	9	B9	
70	21	Q0	
71	4	F5	
72	10	B0	
73	7	Q0	
74	21	Q0	
75	8	F0	
76	5	F0	
77	3	B9	
78	1	K1	
79	4	Q21	
80	21	K0	
81	1	K	

55	+58°	2644	21	50.1	+55	55.2	6.2	✓
56	+55°	2652	21	51.7	+55	13.6	7.0	✓
57	+55°	2650	21	51.4	+55	42.5	8.8	✓
58	+55°	2658	21	53.3	+55	34.2	8.5	✓
59	+55°	2657	21	53.2	+55	53.6	8.8	✓
60	+56°	2667	21	54.2	+56	14.8	8.5	✓
61	+56°	2671	21	54.6	+56	10.3	7.3	✓
62	+56°	2675	21	55.1	+56	1.5	8.0	✓
63	+56°	2676	21	55.7	+56	0.8	8.0	✓
64	+55°	2667	21	56.0	+55	18.1	8.5	✓
65	+55°	2669	21	57.3	+55	15.7	7.8	✓
66	+55°	2671	21	58.3	+55	5.2	9.0	✓
67	+55°	2673	21	58.7	+55	7.5	7.8	✓
68	+54°	2683	22	1.1	+54	32.8	8.0	✓
69	+55°	2679	22	1.1	+55	37.6	6.8	✓
70	+56°	2706	22	1.5	+56	30.0	8.5	✓
71	+56°	2702	22	0.6	+56	25.2	7.5	✓
72	+57°	2441	21	57.2	+57	18.0	6.4	✓
73	+56°	2670	21	54.5	+56	57.4	6.7	✓
74	+57°	2432	21	51.4	+57	42.2	8.5	✓
75	+57°	2431	21	51.9	+57	56.0	8.2	✓
76	+57°	2430	21	51.6	+57	43.1	7.8	✓
77	+57°	2422	21	49.8	+57	59.6	8.3	✓
78	+57°	2418	21	48.9	+57	6.3	8.7	✓
79	+57°	2414	21	47.8	+57	39.5	8.2	✓
80	+57°	2410	21	47.1	+57	51.3	8.4	✓
81	+57°	2408	21	46.8	+57	57.4	8.7	✓

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No.	Dut.	Class	Remark
82	3	Ao	
83	3	A	Partly superposed on 84
84	3	A2	
85	21	K5	
86	2	Ma	
87	6	Ko	E
88	10	Ma	
89	7	K5	
90	5	Ko	E.
91	5	Ao	
92	7	Pec.	Hz Bright. Nbs portion Cont.
93	1	A	
94	5	F5	
95	3	Ko	
96	8	B	Lines too indistinct to subdivide.
97	4	Bq	E.
98	4	Ao	
99	21	A	E.
100	3	Ao	
101	4	Ao	
102	3	A5	
103	3	A5	
104	6	Ao	
105	3	A2	
106	7	K5	
107	6	F0	
108	5	Ao	

82	+56°	2652	21	46.7	+56	54.7	8.2	✓
83	+57°	2402	21	43.8	+57	10.0	8.5	✓
84	+57°	2403	21	43.8	+57	17.4	8.2	✓
85	+57°	2399	21	43.0	+57	36.3	8.5	✓
86	+57°	2396	21	41.7	+57	23.8	7.5	✓
87	+57°	2392	21	40.1	+57	33.3	7.7	✓
88	+58°	2316	21	39.1	+58	7.0	var.	✓
89	+58°	2314	21	38.4	+58	86.5	6.7	✓
90	+59°	2409	21	36.3	+59	5.7	6.9	✓
91	+58°	2306	21	33.3	+58	5.5	7.7	✓
92	+57°	2374	21	37.9	+57	4.7	7.2	✓
93	+57°	2386	21	39.8	+57	4.6	8.9	✓
94	+56°	2623	21	35.9	+56	55.7	7.3	✓
95	+57°	2359	21	34.9	+56.7	13.4	8.2	✓
96	+56°	2617	21	34.5	+56	49.7	6.2	✓
97	+56°	2614	21	33.9	+56	19.8	8.0	✓
98	+55°	2612 2619	21	34.1	+55	8.0	7.5	✓
99	+55°	~~2614~~ 2613	21	32.9	+55	6.7 7.4	8.8	✓
100	+54°	2583	21	32.4	+54	28.1	7.5	✓
101	+53°	2655	21	32.2	+53	59.5	7.5	✓
102	+54°	2581	21	31.8	+54	10.4	7.8	✓
103	+54°	2576	21	31.2	+54	2.3	8.3	✓
104	+53°	2647	21	29.0	+53	40.5	7.4	✓
105	+53°	2651	21	30.7	+53	1.8	8.6	✓
106	+53°	2659	21	32.8	+53	23.8	6.5	✓
107	+52°	3013	21	33.7	+52	55.7	6.5	✓
108	+52°	2990	21	32.2	+52	43.6	7.3	✓

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I 37351

No.	Dist.	Class	Remarks
109	3	G0	
110	3	F2	
111	4	B5	
112	7	K0	
113	3	K0	
114	4	K0	
115	5	K2	
116	1	K	
117	2	K0	
118	4	B8	
119	3	F2	
120	5	K0	
121	2	K2	
122	3	K5	
123	4	Q:	Almost Cnst.
124	4	Q0	
125	6	B2	
126	5	Q0	
127	3	Q0	The position of 2.
128	1	K0	
129	5	F0	
130	4	Q0	
131	1	Q5	
132	2	Q2	
133	1	?	
134	1	?	
135	3	?0	

109	+52°	30°05	21	34.9	+52	44.9	8.1	✓
110	+53°	26 71	21	34.2	+53	7.5	8.0	✓
111	+52°	26 80	21	35.2	+53	18.8	7.6	✓
112	+54°	25 95	21	35.9	+54	13.2	6.0	✓
113	+54°	25 97	21	36.1	+54	41.9	7.5	✓
114	+54°	25 90	21	34.9	+54	42.7	7.5	✓
115	+53°	26 90	21	38.1	+53	54.3	6.8	✓
116	+53°	26 94	21	39.1	+53	37.5	8.2	✓
117	+53°	26 89	21	37.9	+53	6.4	7.6	✓
118	+52°	30 19	21	37.7	+52	35.3	7.5	✓
119	+52°	30 17	21	37.5	+52	30.7	7.9	✓
120	+51°	31 25	21	37.0	+51	37.7	7.1	✓
121	+51°	31 27	21	38.2	+51	44.5	7.7	✓
122	+51°	31 35	21	40.1	+51	36.0	7.1	✓
123	+51°	31 34	21	41.5	+51	27.4	7.5	✓
124	+50°	34 38	21	42.8	+50	57.0	7.6	✓
125	+52°	30 43	21	44.9	+52	1.2	6.7	✓
126	+52°	30 40	21	43.1	+52	24.6	7.8	✓
127	+52°	30 41	21	44.0	+52	44.1	8.5	✓
128	+53°	27 11	21	44.4	+53	9.1	8.0	✓
129	+53°	27 08	21	43.3	+53	42.9	8.0	✓
130	+53°	27 16	21	44.9	+53	33.8	8.0	✓
131	+53°	27 19	21	46.4	+53	36.5	8.6	✓
132	+54°	26 33	21	46.7	+54	15.6	8.4	✓
133	+54°	26 34	21	46.8	+54	43.9	8.6	✓
134	+54°	26 36	21	46.9	+54	24.5	8.9	✓
135	+54°	26 07	21	38.2	+54	32.6	8.1	✓

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I 37851

No.	Qut.	Class	Remarks
136	4	Bq	
137	1	B5	
138	2	K2	
139	1	K	
140	2	A0	
141	2	A0	
142	1	K	
143	1	K0	
144	4	A2	E
145	1	A	E
146	5	K0	E
147	2	A0	E
148	2	A0	E
149	5	B8	
150	3	B8	
151	3	A0	
152	2	K2	
153	9	A2	
154	3	A0	
155	2	A	E
156	1	K5	
157	1	A	
158	1	A	
159	7	B8	
160	6	A2	
161	2	A0	
162	1	A3	

136	+54°	26 06	21	38.1	+54	51.7	7.7	✓
137	+55°	26 24	21	40.2	+55	13.7	8.7	✓
138	+54°	26 12	21	39.5	+54	42.9	7.7	✓
139	+53°	26 97	21	40.3	+53	50.7	8.6	✓
140	+53°	30 27	22	40.2	+52	49.3	8.6	✓
141	+52°	30 35	21	42.1	+52	38.0	8.5	✓
142	+52°	30 38	21	43.0	+52	47.9	8.6	✓
143	+52°	30 31	21	41.0	+52	12.5	8.4	✓
144	+50°	36 95	22	17.9	+50	28.1	7.2	✓
145	+50°	36 76	22	15.2	+50	21.2	8.5	✓
146	+50°	36 73	22	14.9	+50	15.1	6.5	✓
147	+50°	36 59	22	13.1	+50	4.1	8.2	✓
148	+50°	36 48	22	11.6	+50	5.0	8.2	✓
149	+50°	36 51	22	12.0	+50	35.8	7.8	✓
150	+50°	36 29	22	9.7	+50	41.8	8.5	✓
151	+50°	36 27	22	9.4	+50	46.0	7.5	✓
152	+50°	36 24	22	8.6	+50	43.1	8.0	✓
153	+50°	36 02	22	5.5	+50	6.6	6.0	✓
154	+50°	35 96	22	5.0	+50	5.6	8.4	✓
155	+50°	35 82	22	3.5	+50	4.0	8.6	✓
156	+51°	32 77	22	58	+51	~~59.4~~ 60.0	8.8	✓ A
157	+51°	32 74	22	56	+51	27.9	8.5	✓
158	+51°	32 73	22	5.5	+51	41.8	8.5	✓
159	+50°	~~35 49~~ 32 48	22	~~59.7~~ 1.2	+58	6.0	7.8	✓
160	+50°	35 49	21	~~58.0~~ 59.7	+50	~~59.9~~ 59.7	~~7.1~~ 7.3	✓
161	+51°	32 43	21	59.9	+51	89.8	8.5	✓
162	+51°	32 51	22	1.8	+51	55.6	4.7	✓

Cards made out

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Thursday Feb. 13, 1913

I 37351

No.	Dist.	Class	Remarks
163	1	K0	
164	1	a	
165	2	K2	
166	2	B	
167	1	a	
168	8	B5	
169	21	A0	
170	21	A2	
171	4	F0	
172	21	A0	Trine 3.40 Feb. 14, 1913
173	2	A0	Trine 9.35
174	2	A0	
175	2	A2	E.
176	2	A0	
177	3	F5	E.
178	4	A0	E.
179	6	A	E.
180	5	A	E.
181	10	K3	E.
182	2	K0	E.
183	4	K3	E.
184	3	A	
185	2	F2	
186	3	A0	
187	2	F8	
188	3	K2	Partly superposed on 189.
189	6	F5	

163	+52°	3111	22	1.3	+52	5.0	8.4	✓
164	+52°	3116	22	2.4	+52	9.5	9.0	✓
165	+52°	3087	21	58.3	+52	1.0	8.0	✓
166	+52°	3088	21	58.4	+52	30.5	8.3	✓
167	+52°	3095	21	59.9	+52	48.2	8.8	✓
168	+52°	3083	21	56.5	+52	11.0	8.3	✓
169	+51°	3225	21	55.9	+51	23.6	8.2	✓
170	+51°	3221 2a	21	55.4	+51	51.0	8.4	✓
171	+50°	3518	21	54.7	+50	49.4	7.6	✓
172	+50°	3522	21	55.4	+50	32.3	8.3	✓
173	+50°	3507	21	52.8	+50	55.8	8.4	✓
174	+51°	3207	21	53.0	+51	33.5	8.6	✓
175	+50°	3465	21	46.8 9	+50	45.1	8.3	✓
176	+52°	3049	21	46.9	+52	1.7	8.8	✓
177	+50°	3451	21	45.3	+50	19.2	7.2	✓
178	+49°	3632	21	43.9	+49	50.7	7.3	✓
179	+50°	3430	21	40.8	+50	0.4	7.4	✓
180	+50°	3411	21	37.2	+50	11.9	7.1	✓
181	+50°	3410	21	36.9	+50	31.5	5.1	✓
182	+51°	3375	22	20.8	+51	36.9	8.2	✓
183	+51°	3372	22	20.0	+51	42.0	8.2	✓
184	+52°	3203	22	19.6	+52	0.4	8.2	✓ magn. 8.9 +52° 3204 superposed
185	+51°	3363	22	18.7	+51	51.5	8.5	✓
186	+52°	3199	22	18.3	+52	31.9	8.5	✓
187	+52°	3286	22	19.4	+52	59.3	8.4	✓
188	+53°	2874	22	20.1	+53	4.8	7.1	✓
189	+53°	2876	22	20.2	+53	12.0	7.1	✓
					Cards	made	out	

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Friday, Feb. 14, 1913.
I 37351 long disp.

No.	Ext.	Class	Remark
190	2	As	
191	4	Ao	
192	3	A2	
193	1	F0	
194	3	F3g	
195	2	Ao	
196	4	F3g	
197	3	Ao	
198	3	A2	
199	1	F5	
200	1	A2	
201	2	A2	
202	1	A3	
203	3	A1	
204	1	A5	
205	5	F5	
206	3	A3	
207	2	A2	
208	3	A5	
209	2	Ao	
210	2	F3g	
211	4	F0	
212	4	lyS	
213	2	Ao	
214	1	A	
215	1	A	
216	2	Ao	

190	+53°	2877	22	20.3	+53	2.5	8.1	✓
191	+53°	2882	22	20.8	+53	21.8	7.6	✓
192	+53°	2884	22	21.1	+53	46.0	8.5	✓
193	+53°	2869	22	19.2	+53	39.6	8.0	✓
194	+53°	2870	22	19.3	+53	59.2	8.4	✓
195	+53°	2868	22	19.1	+53	58.3	8.9	J
196	+54°	2769	22	18.9	+54	8.0	8.4	J
197	+54°	2771	22	19.4	+54	23.5	8.2	✓
198	+53°	2865	22	17.8	+53	35.1	8.5	J
199	+53°	2858	22	16.4	+53	24.6	8.5	✓
200	+53°	2857	22	15.9	+53	9.8	9.4	J
201	+53°	2851	22	15.3	+53	3.4	8.7	J
202	+53°	2849	22	15.0	+53	4.9	8.3	✓
203	+53°	2856	22	15.7	+53	48.8	8.5	J
204	+53°	2855	22	15.6	+53	59.3	8.8	J
205	+54°	2741	22	15.1	+54	7.5	8.0	✓
206	+53°	2844	22	13.4	+53	51.4	8.0	J
207	+53°	2842	22	13.1	+53	51.3	8.9	J
208	+53°	2841	22	12.9	+53	46.1	8.2	✓
209	+54°	2732	22	12.7	+54	33.2	8.8	J
210	+54°	2727	22	11.6	+54	5.8	8.8	J
211	+54°	2722	22	10.6	+54	6.6	8.2	✓
212	+53°	2838	22	10.5 11.7	+53	54.9 47.1	7.8 8.5	J
213	+53°	2824	22	9.5	+53	45.9	8.8	✓
214	+53°	2821	22	8.8	+53	49.5	9.2	J
215	+53°	2815	22	7.8	+53	16.7	9.0	J
216	+53°	2813	22	7.6	+53	16.0	8.5	✓

cards made anew

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Friday, Feb. 14, 1913.

I 37351 long disp.

No.	Ext.	Class	Remark
217	1	Ao	
218	5	Ao	
219	2	F2	The following after.
220	2	F2	
221	1	F	
222	1	F0	
223	7	B5	
224	2	Ao	
225	2	Go	
226	4	F0	
227	2	Ao	
228	2	K2	
229	8	F8	
230	8	A	E.
231	1	K0	
232	1	A	
233	3	Ma	
234	4	B3?	Lines very indistinct.
235	1	F0	
236	2	F5	
237	3	A5	
238	5	B9	
239	2	A	
240	6	B9	
241	5	Ao	
242	3	A2	
243	10	B8	

217	+53°	2810	22	7.0	+53	24.5	8.6	✓
218	+53°	2800	22	4.9	+53	50.7	7.7	✓
219	+53°	2798	22	4.1	+53	26.6	8.3	✓
220	+53°	2793	22	3.3	+53	34.4	8.8	✓
221	+54°	2688	22	2.8	+54	14.3	8.9	✓
222	+55°	2687	22	2.5	+55	19.4	8.8	✓
223	+55°	2695	22	5.0	+55	22.7	7.3	✓
224	+55°	2692	22	4.1	+55	29.1	8.5	✓
225	+55°	2689	22	3.6	+55	19.4	8.5	✓
226	+55°	2688	22	2.9	+55	52.6	8.3	✓
227	+56°	2713	22	4.0	+56	20.3	8.3	✓
228	+56°	2721	22	5.0	+56	45.5	8.6	✓
229	+56°	2727	22	6.6	+56	7.4	6.0	✓
230	+55°	2750	22	21.5	+55	41.6	6.5	✓
231	+55°	2749	22	20.2	+55	46.6	7.7	✓
232	+55°	2747	22	19.6	+55	30.9	9.2	✓
233	+55°	2737	22	17.7	+55	14.0	7.2	✓
234	+54°	2756	22	17.6	+54	29.8	8.3	✓
235	+54°	2760	22	18.2	+54	28.4	8.8	✓
236	+54°	2750	22	16.6	+54	51.6	8.5	✓
237	+54°	2742	22	15.2	+54	33.7	8.5	✓
238	+54°	2740	22	15.0	+54	57.4	8.3	✓
239	+55°	2726	22	14.9	+55	22.1	8.9	✓
240	+55°	2729	22	15.6	+55	15.7	7.8	✓
241	+56°	2731	22	16.6	+55	48.0	8.1	✓
242	+56°	2762	22	16.4	+56	3.5	8.2	✓
243	+56°	2765	22	17.7	+56	33.0	6.7	✓

Cards made out

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Friday. Feb. 14. 1913.
I 37351 long disc.

Nr.	Int.	Class	Remark
244	4	A	E.
245	4	f	E.
246	23	f0	E.
247	5	F0	E.
248	5	K0	E.
249	9	B1	
250	5	K0	
251	2	A	
252	1	Oa	Bright band 4633 seen
253	3	F5	
254	3	G0	
255	2	A3	
256	7	A2	
257	3	A5	Partly superposed on 256.
258	7	K0	
259	10+	F0	
260	5	B9	
261	2	A0	
262	2	A2	
263	3	A5	
264	7	B9	
265	1	f	Partly superposed on 264.
266	1	F2	
267	5	K2	
268	1	K5	
269	1	A	
270	1	A	

244	+56°	2776	22	21.5	+56	27.9	8.6	J
245	+56°	2781	22	22.4	+56	49.4	8.0	J
246	+56°	2785	22	23.1	+56	10.9	8.0	J
247	+57°	2520	22	18.6	+57	48.3	7.6	J
248	+57°	2508	22	15.4	+57	40.8	7.2	J
249	+56°	2755	22	14.8	+56	11.8	6.7	J
250	+56°	2724	22	14.5	+55	27.3	7.5	J
251	+55°	2723	22	13.8	+55	23.6	8.8	J
252	+55°	2721	22	13.4	+55	24.2	8.9	J
253	+55°	2720	22	13.2	+55	28.1	8.5	J
254	+55°	2718	22	12.8	+55	25.1	8.7	J
255	+55°	2715	22	11.9	+55	8.4	9.4	J
256	+54°	2700	23	16.6	+54	26.8 57.6	7.8 8.5	J
257	+55°	2713	22	11.6	+55	25.9	8.4	J
258	+56°	2746	22	11.2	+56	30.0	6.5	J
259	+56°	2741	22	9.7	+56	19.3	5.1	J
260	+55°	2709	22	10.2	+55	5.9	7.8	J
261	+55°	2710	22	10.4	+55	23.5	9.2	J
262	+54°	2719 21 27 16	22	9.8	+54	42.8 6 44.1	9.0 7.10 8.5	J
263	+54°	2716 27 09	22	8.0	+54	44.1 45.3	8.5	J
264	+54°	2708	22	7.9	+54	35.6	8.6	J
265	+54°	2709	22	8.0	+54	45.3	8.1	J
266	+54°	2706	22	7.8	+54	11.8	9.4	J
267	+54°	2702	22	7.6	+54	23.1	7.5	J
268	+55°	2702	22	7.4	+55	30.2	8.8	J
269	+55°	2701	22	6.8	+55	2.7	9.2	J
270	+56°	2704	22	8.4	+55	53.2	9.1	J

Clouds made out

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Friday, Feb. 14. 1913.
I 37351 long axis

No.	Int.	Class	Remark
271	5	A2	
272	2	Ky	
273	3	F	
274	6	A5	
275	10+	Ko	
276	4	Ko	
277	7	Ko	
278	2	Ky	
279	2	F5	
280	5	A E.	
281	2	Ko	
282	2	A0	
283	8	A E.	
284	6	Ko	
285	6	A3	
286	7	A0	
Time: 10.06	287	5	A
	288		
	289		
✓	288	2	B8
	289	2	B5
✓	290	2	F5
	291	2	B8

271	+56°	2736	22	8.3	+56	55.3	8.2	✓
272	+56°	2739	22	9.6	+56	59.3	8.5	✓
273	+57°	2478	22	6.7	+57	0.0	8.4	✓
274	+57°	2476	22	5.9	+57	13.4	8.0	✓
275	+57°	2475	22	5.8	+57	29.3	4.1	✓
276	+58°	2397	22	4.1	+58	8.8	8.0	✓
277	+58°	2393	22	2.3	+58	7.5	6.7	✓
278	+58°	2392	22	1.9	+58	6.7	8.5	✓
279	+57°	2385	22	0.8	+58	10.2	8.7	✓
280	+58°	2381	22	59.5	+58	5.2	7.3	✓
281	+57°	2450	22	0.4	+57	31.9	7.7	✓
282	+57°	2452	22	0.8	+57	36.2	8.5	✓
283	+58°	2395	22	3.8	+58	35.0	6.5	✓
284	+58°	2403	22	7.0	+58	20.8	6.3	✓
285	+58°	2409	22	8.2	+58	35.3	7.5	✓
286	+58°	2413	22	10.1	+58	23.0	7.5	✓
287	+58°	2419	22	11.5 +0.4	+58	16.3 20.2	8.2 9.2	✓

Identified by W. C. W. July 25. 1913
Checked by amc. Aug. 5. 1913
cards made out by W. C. W.
Cards checked by E.B.B.

✓	288	+53°	2712	21	44.5	+53	H2	8.0	✓
✓	289	+56	2605	21	32.3	+56	56	F.2	59 m J 28546
	290	+56	2605	21	31.6	+56	49	8.6	✓
✓	291	+56	2598	21	31.3	+56	49	P.5	60 m J 38526

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Friday, Feb. 14, 1913

Time: 12.25

I 38 332 long disp.

No.	Int.	Class	Remark
1	2	h_5	
2	4	H_0	E.
3	3	h	E.
4	4	A_2	E.
5	7	A_2	E.
6	7	H_0	E.
7	5	H	E.
8	4	h_5	E.
9	8	H_5	
10	3	A_2	
11	3	A_0	
12	1	H	
13	2	A_5	
14	2	A_3	
15	1	h_5	
16	1	H_3	
17	1	A	
18	1	h_5	
19	1	H	
20	2	K_2	
21	2	H_0	
22	2	A_2	
23	2	H_0	
24	3	H_5	
25	8	H_0	
26	3	h_5	
27	5	K_0	

1	+85°	170	10	40.7	+85	7.7	8.6	1 v
2	+85°	166	10	23.9	+85	29.8	8.4	1 v
3	+86°	154	10	33.4	+86	7.6	8.2	1 v
4	+86°	159	10	50.4	+86	19.5	8.3	1 v
5	+86°	161	10	56.2	+86	25.5	7.2	1 v
6	+85°	183	11	20.0	+85	30.3	7.5	1 v
7	+86°	170	11	23.8	+86	25.0	7.0	1 v
8	+86°	172	11	36.4	+86	24.2	8.2	1 v
9	+86°	176	11	57.4	+86	23.5	5.7	1 v
10	+85°	196	12	4.6	+85	53.2	8.2	1 v
11	+86°	180	12	19.3	+86	6.7	8.4	1 v
12	+84°	275	12	18.0	+84	27.5	8.5	1 v
13	+83°	354	12	19.6	+83	28.2	8.6	1 v
14	+83°	365	12	47.2	+83	13.2	8.6	1 v
15	+83°	366	12	48.4	+83	18.4	8.5	1 v
16	+84°	301	13	10.6	+84	26.2	8.8	1 v
17	+84°	303	13	12.5	+84	56.8	9.0	1 v
18	+85°	214	13	2.0	+85	2.2	8.6	1 v
19	+83°	381	13	12.4	+83	25.6	9.2	1 v + 83° 379 magn. 8.9 superposed
20	+82°	388	13	15.5	+82	51.8	8.5	1 v
21	+81°	422	13	19.8	+81	23.0	8.8	1 v
22	+81°	427	13	25.6	+81	12.4	9.2	1 v
23	+81°	435	13	33.0	+81	3.9	8.9	1 v
24	+81°	440	13	38.2	+81	13.2	8.7	1 v
25	+81°	452	13	53.3	+81	28.9	6.8	1 v
26	+80°	409	13	19.1	+80	12.0	8.9	1 v
27	+79°	418	13	13.0	+79	28.1	7.5	1 v

cards made out

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Friday. Feb. 14, 1913.
I 38 332 long disp

No.	Int.	Class	Remark
28	3	F5	Another star superposed?
29	1	F2	
30	4	F5	
31	9	F0	
32	2	A	
33	2	F5	
34	2	A2	
35	2	F2	
36	7	G0	
37	2	A0	
38	3	A2	
39	4	G0	
40	3	A0	
41	5	F0	
42	3	F2	
43	2	F0	
44	2	A	
45	5	F0	E.
46	8	F0	E.
47	3	F0	E.
48	2	F0	E.
49	4	F0	E.
50	3	F	E.
51	5	F0	
52	4	F0	
53	3	F2	
54	3	Nva	

28	+79°	419	13	18.2	+79	4.7	8.5	1 v
29	+79°	421	13	21.1	+79	18.7	9.0	1 v
30	+78°	464	13	36.9	+78	37.7	8.0	1 v
31	+78°	466	13	42.1	+78	47.4	5.8	1 v
32	+81°	369	11	16.0	+81	20.8	9.0	1 v
33	+80°	358	11	22.7	+80	48.5	8.3	1 v
34	+81°	381	11	30.8	+81	8.0	9.0	1 v
35	+80 +81°	353 376	12 12	14.6	+80 +81	49.2 1.5	8.5 9.0	v
36	+80°	389	12	32.8	+80	1.3	6.7	1 v
37	+79°	396	12	31.1	+79	42.8	8.8	1 v
38	+80°	390	12	35.7	+80	4.3	9.2	1 v
39	+79°	400	12	36.3	+79	49.1	8.7	1 v
40	+79°	403	12	38.8	+79	2.3	9.0	1 v
41	+77°	491	12	49.6	+77	43.6	7.7	1 v
42	+77°	495	12	53.0	+77	59.7	8.5	1 v
43	+78°	446	13	0.9	+78	12.6	8.5	1 v
44	+78°	453	13	7.8	+78	24.4	9.0	1 v
45	+76°	470	12	49.7	+76	11.6	6.8	1 v
46	+76°	473	12	54.5	+76	15.3	6.0	1 v
47	+76°	462	12	35.3	+76	42.6	7.2	1 v
48	+76°	463	12	36.0	+76	58.5	8.1	1 v
49	+76°	454	12	28.0	+76	0.5	6.7	1 v
50	+76°	464	12	36.7	+76	9.3	8.3	1 v
51	+77°	475	12	25.3	+77	29.4	7.5	1 v
52	+77°	474	12	20.6	+77	11.2	8.1	1 v
53	+76°	449	12	20.1	+76	33.0	8.2	1 v
54	+77°	478	12	31.2	+77	25.7	8.3	1 v

cards made out

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Friday, Feb. 14, 1913.

I 38332 long disp.

No.	Int.	Class	Remark
55	2	K	E.
56	5	A2	
57	3	A5	
58	3	F8	
59	3	F5	
60	2	K0	
June 12.25 61	4	A	E.
62	2	G5	
63	3	G5	
64		A	N Doubtful on account of superposition of No 63
65	4	A0	
66	4	K0	
67	3	A2	

55	+77°	462	12	1.7	+77	5.9	8.0 1 v
56	+76°	439	11	56.5	+76	52.4	7.7 1 v
57	+78°	409	12	4.0	+78	13.7	9.0 1 v
58	+78°	420	12	21.1	+78	44.6	9.0 1 v
59	+78°	423	12	26.4	+78	32.5	9.0 1 v
60	+79°	393	12	22.3	+79	1.7	8.6 1 v
61	+76°	502	13	48.0	+76	17.3	7.0 1 v

Identified by Ame. Feb 26. 1913

Checked March 14. 1913 H.D.C

cards made out by Mr C. W.

62	+81°	399	12	28.8	+81	44.7	8.1 v
63	+80°	393	12	39.4	+80	23	8.3
64	+80°	394	12	39.6	+80	23	9.2
65	+83	373					83m √375 E?
66	+83	369					84 " "
67	+82	378					85 " "

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Saturday, Feb. 15, 1913.

I3831 long (for faint stars)

June: 10.18

No.	Int.	Class	Remark
1	3	h_2	
2	2	h_4	
3	3	H_6	
4	2	h_5	
5	2	A_3	
6	2	H_5	
7	1	h_5	
8	1	H_0	
9	2	H	
10	2	H_0	
11	2	H_2	
12	1	H_0	
13	2	H_0	
14	3	h_2	E.
15	2	A_2	E.
16	2	h_5	
17	3	A_2	
18	1	h_4	
19	1	h	
20	3	h_5	
21	3	H_8	(Near a brighter star.)
22	1	h_5	
23	3	H	
June: 10.36 24	2	H_0	
~~25~~	3	H_8	
26 ~~27~~	5	H_0	
~~28~~			

1	+84°	222	9	36.5	+84	9.5	8.0	∧ ✓
2	+83°	240	8	48.2	+83	27.5	9.0	∧ ✓
3	+83°	238	8	45.0	+83	41.6	9.0	∧ ✓
4	+83°	236	8	40.0	+83	43.9	8.5	∧ ✓
5	+84°	187	8	25.6	+84	4.2	9.2	∧ ✓
6	+82°	251	8	18.6	+82	49.7	8.7	∧ ✓
7	+82°	245	8	9.5	+82	37.4	8.7	∧ ✓
8	+83°	220	8	13.8	+83	5.8	8.5	∧ ✓
9	+83°	195	7	20.2	+83	2.7	9.0	∧ ✓
10	+81°	239	6	53.8	+81	6.21	7.8	∧ ✓
		188	6	30.0	+82	25.1	8.7	
11	+82°	185	6	24.2	+82	38.4	8.7	∧ ✓
12	+79°	239	7	8.6	+79	25.9	8.7	∧ ✓
13	+79°	233	7	2.5	+79	22.3	8.5	∧ ✓
14	+79°	222	6	38.4	+79	20.0	8.0	∧ ✓
15	+79°	218	6	34.9	+79	7.8	9.1	∧ ✓
16	+78°	253	7	7.8	+78	29.7	8.7	∧ ✓
17	+79°	237	7	6.4	+79	9.1	8.3	∧ ✓
18	+78°	260	7	23.3	+78	5.9	9.2	∧ ✓
19	+78°	259	7	22.4	+78	11.0	9.0	∧ ✓
20	+80°	241	7	40.9	+80	0.5	8.7	∧ ✓
21	+81°	279	8	46.1	+81	39.4	8.4	∧ ✓
22	+81°	268	8	22.9	+81	31.9	8.9	∧ ✓
23	+80°	258	8	13.8	+80	0.4	8.8	∧ ✓
24	+77°	333	8	14.0	+77	56.1	8.7	∧ ✓
			7	159	+80	52	8.0	
~ 25	+80°	233						
✓ 26	+78	254		140 on #3788				

Identified by ANC. Feb. 26, 1913

Checked Oct. 28. 1913 ADW.

Cards made out by E.R.B.

Cards checked by E.F.M.

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Saturday Feb. 15, 1913.

Time 11.20

I 38196 long disp.

No.	Int.	Class	Remark
1	6	F5	
2	5	A2	
3	1	F2	
4	3	A2	
5	2	F5	
6	4	A0	
7	3	A2	
8	7	A0	
9	2	A	
10	6	K0	
11	6	K0	
12	3	A3	
13	4	A3	
14	8	B9	
15	7	F2	
16	2	A2	
17	3	K2	
18	3	A3	
19	5	F8	
20	1	F5	
21	5	F5	
22	7	A3	
23	5	A2	
24	3	F5	
25	4	A0	
26	2	A2	
27	2	K0	

1	−4°	1627	6	35.6	−4	0.2	7.0	∧∨
2	−3°	1560	6	35.4	−3	41.7	7.7	∧∨
3	−3°	1555	6	35.0	−3	50.4	8.2	∧∨
4	−3°	1553	6	34.3	−3	50.9	8.2	∧∨
5	−3°	1542	6	33.3	−3	23.4	8.7	∧∨
6	−3°	1537	6	33.1	−3	14.5	8.2	∧∨
7	−2°	1706	6	33.0	−2	53.3	8.5	∧∨
8	−2°	1704	6	32.8	−2	13.8	7.8	∧∨
9	−1°	1320	6	32.7	−1	36.2	9.0	∧∨
10	−1°	1318	6	32.4	−1	15.3	7.7	∧∨
11	−1°	1306	6	30.8	−1	19.0	8.3	∧∨
12	−1°	1303	6	30.6	−1	28.6	9.1	∧∨ 1306 9.0 superposed
13	−1°	1301	6	30.2	−1	30.1	8.4	∧∨
14	−2°	1680	6	29.8	−2	3.6	7.5	∧∨
15	−2°	1691	6	31.1	−2	25.0	6.4	∧∨
16	−2°	1693	6	31.2	−2	16.8	9.0	∧∨
17	−3°	1503	6	28.6	−3	4.4	7.7	∧∨
18	−2°	1671	6	28.6	−2	27.5	8.5	∧∨
19	−2°	1669	6	28.3	−2	7.4	8.0	∧∨
20	−2°	1668	6	28.0	−2	43.9	9.0	∧∨
21	−2°	1663	6	27.1	−2	57.8	7.0	∧∨
22	−2°	1662	6	27.1	−2	47.7	8.1	∧∨
23	−3°	1506	6	28.8	−3	51.9	8.0	∧∨
24	−3°	1501	6	28.4	−3	51.8	8.2	∧∨
25	−4°	1571	6	27.7	−4	8.6	8.4	∧∨ 1577 6 27.4 4.0 warm. 9.2 superposed.
26	−4°	1568	6	26.9	−4	5.9	8.5	∧∨
27	−3°	1480	6	25.8	−3	42.9	8.1	∧∨

cards made out

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Saturday, Feb. 15, 1913

I 38 196 long disp.

No.	Int.	Class	Remark
28	1	A	
29	3	A0	
30	2.	F5	
31	2	F2	The preceding of two.
32	10+	B8	
33	3	F2	
34	2	F2	
35	3	A2	
36	4	A0	
37	2	A0	
38	3	A2	
39	2	A	Another star superposed.
40	2	F2	
41	3	A0	
42	3	F0	
43	8	B3	
44	8	B3	
45	6	Ma	
46	7	G5	
47	1	G5	
48	3	A0	
49	2	G0	
50	3	F2	
51	4	F0	
52	1	F0	
53	2	A0	
54	1	A	

28	−3°	1479 ~~1668~~	6	25.4 ~~28.0~~	−3	40.6 ~~43.9~~	8.7 9.0	A V
29	−2°	1649	6	24.7	−2	40.8	8.7	A V
30	−2°	1656	6	25.9	−2	21.2	9.0	A J
31	−1°	1276	6	26.6	−1	53.7	8.5	A V
32	−1°	1274	6	26.3	−1	6.4	5.9	A J
33	−1°	1271	6	25.8	−1	35.6	8.5	A V
34	−1°	1269	6	25.6	−1	15.5	8.8	A J
35	−0°	1333	6	25.8	−0	44.2	9.0	A J
36	−0°	1336	6	26.3	−0	9.8	8.4	A J
37	−0°	1325	6	24.6	−0	51.3	9.0	A J
38	−0°	1319	6	23.5	−0	50.2	8.6	A J
39	−0°	1312	6	23.0	−0	16.9	8.8	A V magn. 8.8 −0° 1314 superposed
40	+0°	1449	6	22.9	+0	3.8	8.5	A J
41	−0°	1309	6	22.6	−0	0.3	8.6	A J
42	+0°	1443	6	22.6	+0	25.8	8.5	A V
43	+0°	1437	6	21.5	+0	13.1	7.9	A V
44	+2°	1244	6	20.7	+2	0.5	7.1	A J
46	+2°	1253	6	21.7	+2	44.3	6.8	A J
46	+2°	1237	6	19.7	+2	59.8	6.1	A J
47	+3°	1251	6	19.4	+3	27.6	8.5	A J
48	+3°	1250	6	19.2	+3	14.5	8.7	A J
49	+3°	1247	6	19.0	+3	30.2	8.8	A J
50	+2°	1232	6	18.8	+2	24.3	8.0	A J
51	+2°	1213	6	16.2	+2	44.5	7.3	A V
52	+1°	1341	6	18.5	+1	45.5	9.1	A J
53	+1°	1334	6	18.1	+1	13.1	9.0	A V
54	+1°	1330	6	17.5	+1	1.5	9.0	A V

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Saturday, Feb. 15, 1913.
I 38196 long disp.

No.	Int.	Class	Remark
55	2	F0	
56	2	A0	
57	1	A	
58	3	A0	
59	2	F5	
60	1	F5	
61	10	A0	C.
62	1	K	C.
63	2	K0	
64	2	A	
65	8	A0	
66	6	B9	
67	4	B9	
68	2	A2	
69	1	K ~~B5~~	
70	5	A0	
71	2	A	
72	6	B8	
73	2	A0	
74	1	A	
75	2	B0	
76	2	B5	
77	1	B	
78	1	B	
79	1	B5	
80	3	B8	
81	2	F5	

55	+0°	1407	6	17.2	+0	58.2	8.8	∧ ∨
56	+0°	1410	6	17.6	+0	27.7	8.9	∧ ∨
57	+0°	1409	6	17.4	+0	13.1	9.0	∧ ∪
58	−0°	1286	6	17.6	−0	16.7	8.5	∧ ∨
59	−0°	1288	6	18.3	−0	23.0	8.3	∧ ∨
60	−0°	1297	6	19.4	−0	31.1	7.8	∧ ∨
61	−2°	1776	6	42.0	−2	6.6	6.1	∧ ∪
62	−1°	1387	6	41.0	−1	40.0	7.7	∧ ∨
63	−1°	1388	6	41.8	−1	30.1 ~~40.0~~	8.0 7.7	∧ ∪
64	−1°	1378	6	40.0	−1	9.1	8.8	∧ ∨
65	−0°	1421	6	38.5	−0	33.8	7.6	∧ ∪
66	−0°	1416	6	37.8	−0	52.5	8.0	∧ ∨
67	−1°	1364	6	38.2	−1	16.9	8.7	∧ ∨
68	−1°	1367	6	38.6	−1	6d	9.2	∧ ∨
69	−1°	1369	6	38.7	−1	32.1	8.6	∧ ∨
70	−2°	1741	6	37.1	−2	16.7	8.5	∧ ∨
71	−2°	1744	6	37.7	−2	43.9	8.8	∧ ∪
72	−1°	1349	6	36.3	−1	12.7	7.8	∧ ∨
73	−1°	1341	6	35.2	−1	21.0	9.0	∧ ∨
74	−1°	1344	6	35.7	−1	57.9	8.8	∧ ∪
75	−2°	1734	6	36.0	−2	36.6	8.5	∧ ∨
76	−2°	1732	6	35.7	−2	44.8	8.5	∧ ∪
77	−3°	1557	6	35.2	−3	10.2	8.5	∧ ∨
78	−2°	1725	6	35.0	−2	55.8	8.7	∧ ∪
79	−2°	1720	6	34.8	−2	59.2	9.2	∧ ∪
80	−2°	1716	6	34.1	−2	12.4	8.0	∧ ∨
81	−1°	1335	6	34.3	−1	46.0	8.8	∧ ∪

ends made out

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Saturday, Feb. 15. 1913.

I 38196 long disp.

No.	Int.	Class	Remark
82	1	F8	
83	2	A2	
84	1	A	
85	3	A0	
86	5	F8	
87	2	K2	
88	1	G3	
89	1	A	
90	1	A	
91	2	A5	
92	2	A2	
93	5	B9	
94	2	A5	
95	2	Mb	
96	2	A	
97	2	A0	
98	3	F0	
99	10	F8	
100	3	A0	
101	2	A5	
102	1	A2	
103	4	F8	
104	1	G	
105	1	G5	
106	3	K5	
107	2	A0	
108	2	F8	

82	−0°	1395	6	34.2	−0	58.3	8.9	∧ ∨
83	−0°	1392	6	33.6	−0	40.6	9.0	∧ ∨
84	−0°	1388	6	33.4	−0	37.9	9.3	∧ ∨ −0° 1390 8.5 superposed
85	−0°	1380	6	32.2	−0	41.7	8.8	∧ ∨ −0° 1379 ^mag. 9.3^ superposed
86	−0°	1367	6	30.5	−0	33.2	8.3	∧ ∨
87	−0°	1363	6	30.0	−0	45.0	8.8	∧ ∨
88	−1°	1299	6	29.8	−1	1.1	9.0	∧ ∨
89	−1°	1297	6	29.6	−1	7.3	9.1	∧ ∨
90	−0°	1362	6	29.7	−0	52.1	8.9	∧ ∨
91	−1°	1291	6	28.8	−1	25.5	8.9	∧
92	−1°	1289	6	28.4	−1	33.8	8.5	∧ ∨
93	−0°	1355	6	28.4	−0	59.0	8.6	∧ ∨
94	−0°	1352	6	28.2	−0	49.5	9.0	∧ ∨
95	−1°	1288	6	27.9	−1	23.8	8.3	∧ ∨
96	−0°	1353	6	28.2	−0	31.8	9.0	∧ ∨
97	−0°	1350	6	28.0	−0	2.1	9.0	∧ ∨
98	+0°	1494	6	28.0	+0	36.8	8.6	∧ ∨
99	+0°	1491	6	27.8	+0	59.9	6.6	∧ ∨
100	+0°	1489	6	27.5	+0	36.6	8.5	∧ ∨
101	+0°	1476	6	26.2	+0	44.2	8.7	∧ ∨
102	+0°	1473	6	26.1	+0	21.8	9.3	∧ ∨
103	+0°	1469	6	25.3	+0	32.1	8.7	∧ ∨
104	+0°	1464	6	24.7	+0	22.7	9.0	∧ ∨
105	−0°	1326	6	24.7	−0	0.3	8.6	∧ ∨
106	+1°	1391	6	25.6	+1	22.5	7.7	∧ ∨
107	+1°	1382	6	24.6	+1	36.1	9.0	∧ ∨
108	+1°	1386	6	25.2	+1	54.2	8.6	∧ ∨

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Saturday, Feb 15, 1913.

I 38196 long exp.

Nr.	Int.	Class	Remark
109	1	M0	
110	3	A	E.
111	6	B8	
112	2	F5	
113	3	M0	
114	5	B5	H3 not well enu. Maybe bright.
115	2	F5	
116	4	G5	
117	2	G5	
118	6	A0	
119	10	B9	
120	3	A0	
121	1	A5	
122	3	F8	
123	2	A0	
124	4	G5	
125	3	A0	
126	2	A0	Partly superposed on 125.
127	1	G5	
128	3	A	Line 4128.31 strong.
129	5	B2	
130	2	A0	
130a	2	F0	
131	3	A0	
132	4	M0	
133	6	B9	
134	2	A	
135	3	A0	

109	+2°	1277	6	24.9	+2	11.5	9.0 ^ v
110	+0°	1589	6	38.9	+0	15.3	8.9 ^ v
111	+0°	1580	6	37.8	+0	6.2	7.8 ^ v
112	−0°	1417	6	38.1	−0	19.3	9.0 ^ v
113	+0°	1571	6	37.0	+0	3.0	8.6 ^ v
114	+0°	1574	6	37.2	+0	44.1	8.0 ^ v
115	+0°	1558	6	35.9	+0	24.9	8.5 ^ v
116	+0°	1556	6	35.8	+0	7.0	8.0 ^ v
117	+0°	1555	6	35.7	+0	11.5	8.8 ^ v
118	+1°	1465	6	34.0	+1	5.2	8.0 ^ v
119	+0°	1546	6	33.6	+0	37.0	6.5 ^ v
120	+0°	1542	6	33.4	+0	16.1	8.7 ^ v
121	−0°	1382	6	32.7	−0	12.1	9.3 ^ v
122	+0°	1525	6	31.9	+0	14.1	8.5 ^ v
123	+0°	1521	6	31.5	+0	8.3	8.8 ^ v
124	+0°	1523	6	31.7	+0	31.4	8.0 ^ v
125	+0°	1527	6	32.1	+0	42.3	8.5 ^ v
126	+0°	1526	6	32.1	+0	39.4	9.0 ^ v
127	+1°	1455	6	33.1	+1	4.5	8.8 ^ v
128	+1°	1454	6	32.9	+1	27.4	9.2 ^ v
129	+1°	1472	6	35.2	+1	51.1	8.1 ^ v +1° 1473 superposed — magn. 8.9
130	+1°	1466	6	34.3	+1	37.6	9.0 v
130a	+2°	1354	6	34.9	+2	11.0	9.0 v
131	+2°	1353	6	34.0	+2	26.2	9.0 ^ v
132	+2°	1356	6	34.3	+2	43.1	7.7 ^ v
133	+2°	1344	6	32.8	+2	41.2	8.0 ^ v
134	+2°	1343	6	32.7	+2	39.3	9.0 ^ v
135	+2°	1340	6	32.5	+2	16.8	8.8 ^ v

cards made out

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Saturday Feb. 15, 1913.
I 38 196 long exp.

Nr.	Int.	Class	Remark
136	5	B9	
137	2	B8	The preceding of two.
138	7	B0	
139	3	A0	The northern of two.
140	7	A0	
141	2	A2	
142	1	F5	
143	2	A3	
144	2	A2	
145	2	A	
146	2	F0	
147	6	B9	
148	1	A	
149	6	B9	
150	5	A0	
151	7	B9	
152	7	B0	
153	2	A3	
154	3	F0	
155	3	A2	
156	6	A0	
157	6	B9	
158	3	A2	
159	1	B0	
160	4	B	Lines too indistinct to subdivide
161	3	B	" " " " "
162	7	F0	

136	+2°	1334	6	32.0	+2	26.1	8.4
137	+2°	1332	6	31.7	+2	1.1	8.7
138	+1°	1448	6	31.1	+1	44.2	6.8
139	+0°	1517	6	31.0	+0	56.4	8.6
140	+0°	1512	6	30.4	+0	38.2	7.7
141	+0°	1515	6	30.8	+0	13.0	9.2
142	+0°	1519	6	31.3	+0	22.5	8.5
143	+0°	1520	6	31.5	+0	16.3	8.8
144	−0°	1365	6	30.3	−0	3.8	8.8
145	+0°	1505	6	29.4	+0	5.0	9.0
146	+0°	1504	6	29.2	+0	39.2	8.7
147	+1°	1420	6	29.1	+1	10.1	8.3
148	+1°	1424	6	29.7	+1	13.5	9.2
149	+1°	1431	6	30.1	+1	55.5	8.2
150	+2°	1318	6	30.2	+2	18.3	8.2
151	+2°	1323	6	30.3	+2	23.3	7.6
152	+2°	1315	6	30.1	+2	49.6	6.1
153	+2°	1306	6	28.7	+2	12.3	9.2
154	+2°	1303	6	28.5	+2	12.3	8.7
155	+2°	1301	6	28.0	+2	26.4	8.8
156	+1°	1402	6	27.5	+1	55.6	8.3
157	+1°	1400	6	27.1	+1	50.3	8.3
158	+1°	1395	6	26.6	+1	45.1	8.7
159	+2°	1294	6	26.8	+2	13.5	8.7
160	+2°	1295	6	26.8	+2	38.5	8.3
161	+2°	1292	6	26.7	+2	29.5	8.7
162	+3°	1303	6	26.6	+3	0.6	7.5

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Saturday, Feb. 15, 1913.
Ξ 38196 long disp.

No.	Int.	Class	Remark
163	2	F5	
164	5	F0	
165	5	G0	
166	2	A0	
167	2	F0	
168	2	A0	
169	7	B3	
170	6	A0	
171	5	F5	
172	4	A2	
173	8	B9	
174	4	Mb	
175	4	A0	
176	8	B9	
177	8	B0	
178	5	A2	
179	8	F0	
180	3	A0	
Time: 11.50. 181	3	F0	
Feb. 17, 1913			
Time: 11.02 182	1	G5	
183	1	A	Another star superposed?
184	1	G5	
185	2	B9	
186	1	G5	
Time: 11.05. 187	2	F2	

Cmb. 174, 6.

163	+3°	1307	6	27.1	+3	11.0	8.7 ∧ ∨
164	+3°	1304	6	26.8	+3	25.0	7.7 ∧ ∨
165	+3°	1279	6	23.8	+3	0.1	8.0 ∧ ∨
166	+2°	1266	6	23.5	+2	47.4	8.9 ∧ ∨
167	+2°	1263	6	23.2	+2	38.2	8.7 ∧ ∨
168	+2°	1260	6	22.4	+2	52.0	9.1 ∧ ∨
169	+4°	~~1288~~ 1282	6	~~23.3~~ 22.8	~~+4~~ +4	~~36.7~~ 25.6	~~8.3~~ 8.2 ∨
170	+4°	~~1274~~ 1288	6	21.8 ~~22.8~~	+4 ~~+4~~	20.6 ~~25.6~~	8.2 ~~8.2~~ ∨
171	+3°	1290	6	25.1	+3	54.8	7.9 ∧ ∨
172	+4°	1331	6	27.6	+4	4.7	8.3 ∧ ∨
173	+4°	1335	6	28.3	+4	37.2	7.5 ∧ ∨
174	+5°	1306	6	26.9	+5	4.9	8.0 ∧ ∨
175	+4°	1355	6	30.3	+4	23.1	8.5 ∧ ∨
176	+4°	1365	6	31.1	+4	49.7	7.5 ∧ ∨
177	+5°	1334	6	30.2	+5	4.8	7.0 ∧ ∨
178	+5°	1326	6	29.3	+5	38.0	7.8 ∧ ∨
179	+4°	1304	6	24.6	+4	56.5	7.0 ∧ ∨
180	+4°	1296	6	23.9	+4	36.8	8.9 ∧ ∨
181	+4°	1288	6	23.3	+4	36.7	8.3 ∧ ∨
182	+3°	1314	6	28.2	+3	27.0	8.7 ∧ ∨
183	+3°	1320	6	29.5	+3	~~2000~~ 15.8	9.2 ∧ ∨
184	+3°	1323	6	29.7	+3	6.8	9.0 ∧ ∨
185	+1°	1480	6	36.3	+1	45.2	9.1 ∧ ∨
186	+2°	1357	6	34.7	+2	36.5	8.5 ∧ ∨
187	+2°	1376	6	37.9	+2	21.5	8.6 ∧ ∨

mags. 7.9 & 8.2 superposed
20.0
57 +3° 1321 with
54 +3° 1320 superposed

Identified by ANC. July 3, 1913
Checked July 29, 1913 DDW.
cards made out by M. C. W.

checked by A & Z

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Thursday. Feb 17, 1913.

Time: 10.00

I 38168 long disp.

No.	Int.	Class	Remark
1	3	A^0	
2	4	A^0	
3	2	A^0	
4	2	F_2	
5	3	A^2	
6	7	F_0	
7	6	B_9	
8	2	A_2	
9	2	A_0	
10	1	A^2	
11	2	A	Another star superposed?
12	3	A^5	" " " "
13	2	F^2	
14	5	B3	
15	2	A_0	
16	5	A_0	
17	7	B_9	
18	3	B2	
19	4	B2	
20	2	A	
21	4	B2	
22	1	A^2	
23	3	A^5	
24	2	A^5	
25	3	B8	Lines indistinct
26	4	A^5	
27	2	B?	Almost certainly superposed on 28

1	+2°	1200	6	14.2	+2	24.6	7.9
2	+4°	1253	6	18.7	+4	10.8	8.2
3	+4°	1255	6	19.2	+4	8.9	8.5
4	+4°	1256	6	19.3	+4	14.4	8.7
5	+4°	1254	6	19.0	+4	54.4	8.9
6	+5°	1243	6	19.8	+5	15.4	7.5
7	+5°	1249	6	20.5	+5	21.5	8.0
8	+4°	1261	6	19.8	+4	48.6	9.2
9	+4°	1264	6	20.2	+4	53.1	8.9
10	+4°	1267	6	20.6	+4	22.4	8.8
11	+4°	1268	6	20.8	+4	29.9	9.0
12	+6°	1253	6	20.3	+6	0.5	7.8
13	+6°	1254	6	20.4	+6	2.4	7.9
14	+5°	1267	6	22.8	+5	57.6	7.1
15	+5°	1271	6	23.1	+5	58.2	8.7
16	+5°	1280	6	23.9	+5	52.2	7.0
17	+6°	1278	6	24.4	+6	8.3	8.0
18	+5°	1279 1288	6	23.9 24.2	+5	6.8 8.2	8.2
19	+5°	1282	6	24.2	+5	8.2	8.2
20	+5°	1285	6	24.4	+5	4.6	9.0
18		1286	6	24.5	+5	4.6	19.5
21	+4°	1302	6	24.5	+4	54.0	8.5
22	+5°	1290	6	25.2	+5	30.1	8.8
23	+5°	1295	6	25.5	+5	34.7	8.7
24	+5°	1298	6	25.8	+5	46.3	8.6
25	+5°	1300	6	26.1	+5	35.6	8.7
26	+5°	1302	6	26.4	+5	14.0	8.3
27	+4°	1318	6	26.2	+4	37.5	8.5

+5° 1288 superposed on +4° 1286

cards made out

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Thursday. Feb 17, 1913.
Ξ38168 long disp.

	Tor.	Int.	Class	Remark
	28	4	B8	
	29	1	Ma	
	30	8	A	Partly superposed on 31.
	31	3	B8	
	32	6	B3	
	33	2	Ao	
	34	4	B8	
	35	3	Ao	
	36	7	B2	H? not clearly seen. Maybe bright.
	37	3	M0	
	38	2	M0	
	39	5	B8	
	40	6	B3	
	41	3	M0	
	42	B2	A	
	43	2	A2	
	44	2	B9	
	45	7	M1	
	46	1	G5	
10.35	47	3	F	Another star superposed?
10.40	48	3	Cont.	
	49	3	Cont	H δ seen
	50	5	K5	
	51	4	A2	
	53	2	Ao	
	53	3	Ao	
	54	1	M5	

28	+4°	1319	6	26.2 +4	46.3	8.7
29	+5°	1312	6	27.8 +5	37.4	8.5
30	+5°	1315	6	28.2 +5	25.6	8.5
31	+5°	1317	6	28.2 +5	25.3	9.3 +5° 1318 mgn. 9.8 Superposed
32	+6°	1303	6	28.7 +6	12.3	7.6
33	+5°	1319	6	28.7 +5	54.4	8.7
34	+6°	1308	6	29.4 +6	10.5	8.5
35	+5°	1329	6	29.5 +5	55.4	8.0
36	+6°	1309	6	29.6 +6	15.5	6.5
37	+6°	1311	6	30.0 +6	36.6	8.5
38	+6°	1312	6	30.1 +6	48.3	9.0
39	+7°	1382	6	30.4 +7	16.0	7.4
40	+7°	1386	6	31.0 +7	1.8	7.7
41	+6°	1317	6	30.6 +6	26.1	8.2
42	+6°	1316	6	30.5 +6	6.5	8.6
43	+5°	1338	6	30.4 +5	56.4	8.9
44	+5°	1344	6	31.1 +5	48.6	8.5
45	+5°	1334	6	30.2 +5	4.8	7.0
46	+5°	1338	6	29.9 +5	2.6	8.4
47	+4°	1348	6	29.3 +4	49.8	9.0 +4° 1346 mgn. 9.0 Superposed
48	+4°	1360	6	30.7 +4	44.8	8.5
49	+5°	1340	6	30.7 +5	0.0	9.0
50	+4°	1361	6	30.8 +4	43.9	8.2
51	+4°	1366	6	31.4 +4	3.5	8.4
52	+3°	1332	6	30.8 +3	29.4	8.5
53	+3°	1333	6	31.0 +3	8.6	8.5
54	+3°	1330	6	30.4 +3	49.4	8.6

Cards made out

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Tuesday Feb. 17. 1913.
I 38168 long axis.

No.	Int.	Class	Remark
55	2	J0	
56	3	A5	
57	3	A0	
58	2	A2	
59	1	F	
60	5	B9	
61	9	B9	
62	7	A0	
63	8	B2	
64	2	A0	
65	3	A2	
66	1	F	
67	2	A2	
68	4	K0	
69	2	F2	
70	1	A2	
71	1	J0	
72	2	A0	
73	2	A2	
74	2	A5	
75	2	F5	
76	3	F0	
77	5	A2	
78	4	J0	
79	2	A2	
80	1	F8	
81	4	J0	

55	+3°	1323	6	29.7	+3	6.8	9.0 ✓
56	+4°	1374	6	32.2	+4	19.5	8.7 ✓
57	+4°	1373	6	32.2	+4	51.6	9.0 ✓
58	+5°	1356	6	32.6	+5	2.5	9.0 ✓
59	+5°	1357	6	32.7	+5	28.4	9.0 ✓
60	+6°	1334	6	32.1	+6	11.1	8.5 ✓
61	+6°	1338	6	32.7	+6	30.2	7.0 ✓
62	+6°	1346	6	33.7	+6	14.6	7.7 ✓
63	+6°	1351	6	34.2	+6	28.5	7.3 ✓
64	+5°	1362	6	33.3	+5	50.2	9.0 ✓
65	+5°	1366	6	33.9	+5	4.7	8.5 ✓
66	+4°	1381	6	33.0	+4	37.3	8.8 ✓
67	+4°	1383	6	33.3	+4	35.5	8.8 ✓
68	+4°	1388	6	33.6	+4	16.7	8.4 ✓
69	+3°	1348	6	32.7	+3	40.5	8.1 ✓
70	+3°	1350	6	32.9	+3	36.4	9.2 ✓
71	+3°	1352	6	33.0	+3	30.0	8.3 ✓
72	+4°	1395	6	33.9	+4	21.7	9.0 ✓
73	+4°	1398	6	34.1	+4	49.8	9.2 ✓
74	+4°	1399	6	34.2	+4	16.2	8.8 ✓
75	+5°	1373	6	34.8	+5	18.7	8.7 ✓
76	+5°	1377	6	35.2	+5	19.4	8.5 ✓
77	+6°	1360	6	35.5	+6	15.8	8.5 ✓
78	+5°	1380	6	35.7	+5	59.0	7.0 ✓
79	+5°	1382	6	36.0	+5	24.8	9.0 ✓
80	+5°	1385	6	36.4	+5	21.0	8.7 ✓
81	+5°	1391	6	36.7	+5	21.1	7.7 ✓

cards made out

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Monday. Feb. 17. 1913.

I 38168 long axis.

No.	Int.	Class	Remark
82	6	Ao	E.
83	1	N	
84	1	A	E.
85	4	N0	
86	1	N0	
87	2	Ao	
88	1	N0	E.
89	3	A5	
90	1	A	
91	1	N	
92	2	Ao	
93	2	A2	
94	3	A3	
95	5	A5	
96	1	N	
97	2	Ao	
98	6	N0	
99	4	Ao	
100	5	A2	
101	7	A3	
102	1	A	
103	8	Ao	Line 4138.31 strong.
104	3	N8	
105	2	A	
106	2	A	
107	3	N2	
108	2	N5	

82	+5°	1394	6	37.5	+5	22.2	7.8	✓
83	+4°	1417	6	36.5	+4	31.4	9.0	✓
84	+4°	1421	6	37.1	+4	31.1	9.2	✓
85	+4°	1423	6	37.3	+4	23.2	8.3	✓
86	+3°	1374	6	36.2	+3	~~36.6~~	8.9	✓ 35.6 ?
87	+2°	1367	6	36.4	+2	56.9	9.0	✓
88	+2°	1370	6	36.7	+2	57.3	8.5	✓
89	+6°	1286	6	17.8	+6	21.8	8.3	✓
90	+6°	1242	6	19.0	+6	25.7	9.0	✓
91	+6°	1246	6	19.4	+6	35.8	8.5	✓
92	+7°	1293	6	19.5	+7	1.3	8.7	✓
93	+7°	1281	6	18.2	+7	32.6	8.8	✓
94	+7°	1266	6	16.4	+7	58.2	8.2	✓
95	+8°	1318	6	16.6	+8	28.0	7.6	✓
96	+8°	1319	6	16.8	+8	1.1	8.9	✓
97	+8°	1324	6	17.4	+8	5.2	8.8	✓
98	+9°	1232	6	17.3	+9	14.3	7.8	✓
99	+9°	1240	6	18.8	+9	8.6	8.6	✓
100	+9°	1244	6	19.4	+9	18.0	8.2	✓
101	+9°	1247	6	19.8	+9	42.4	8.0	✓
102	+9°	1250	6	20.8	+9	39.1	9.0	✓
103	+9°	1259	6	22.2	+9	6.7	6.9	✓
104	+8°	1359	6	21.7	+8	35.4	7.8	✓
105	+8°	1366	6	22.1	+8	23.0	8.8	✓
106	Approx.	1855	6	22.1	+7	08		✓
107	+8°	1367	6	22.2	+8	0.5	7.8	✓
108	+7°	1306	6	21.5	+7	35.7	8.8	✓

Cards made and

✓ this may be Ap 1912 b 22.1 +7 54.8 mean of the 2 measures in declination. I call it 55.4 instead of 54.8

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Monday, Feb. 17, 1913.
I 38168 long exp.

No.	Int.	Class	Remark
109	2	b_5	
110	7	B3	
111	2	A_0	
112	2	A_0	
113	1	b_5	
114	3	b_5	
115	5	b_5	
116	10	B8	
117	2	F5	
118	7	A_3	
119	3	A_2	
120	2	A_0	
121	1	F5	
122	3	A_0	
123	7	A_5	
124	3	F0	
125	2	F8	
126	1	b_5	
127	5	A_2	
128	2	F0	
129	1	A	
130	2	A_2	
131	1	F	
132	7	A_0	
133	2	A_0	
134	3	A_2	
135	6 2	F5	

109	+7°	1312	6	22.0 +7	13.7 8.5
110	+7°	1314	6	22.1 +7	12.1 8.2
111	+6°	1266	6	22.3 +6	59.0 8.5
112	+7°	1321	6	22.9 +7	30.5 8.8
113	+7°	1326	6	23.5 +7	27.3 9.0
114	+7°	1327	6	23.6 +7	55.2 8.7
115	+6°	1276	6	24.0 +6	52.9 8.0
116	+7°	1337	6	25.1 +7	26.3 5.0
117	+8°	1380	6	24.4 +8	15.2 8.5
118	+8°	1379	6	24.4 +8	55.2 7.5
119	+9°	1271	6	23.6 +9	18.3 8.5
120	+9°	1282	6	26.4 +9	11.2 8.7
121	+9°	1284	6	26.5 +9	11.6 8.0
122	+8°	1406	6	27.4 +8	7.3 8.2
123	+7°	1357	6	26.9 +7	40.9 7.5
124	+7°	1356	6	26.8 +7	47.6 8.6
125	+7°	1352	6	26.5 +7	19.5 8.5
126	+7°	1354	6	26.6 +7	24.6 8.5
127	+6°	1288	6	26.6 +6	48.0 8.0
128	+7°	1343	6	26.0 +7	20.8 8.5
129	+7°	1340	6	25.6 +7	16.4 9.0
130	+6°	1298	6	28.1 +6	32.7 8.6
131	+6°	1301	6	28.3 +6	30.0 8.8
132	+8°	1425	6	31.0 +8	5.4 8.3
133	+8°	1422	6	30.5 +8	36.6 8.4
134	+8°	1438	6	32.5 +8	16.9 8.5
135	+9°	1345	6	33.2 +9	7.0 7.0

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Thursday. Feb 17, 1913.

I 38168 long disp.

Nr.	Int.	Class	Remark
136	3	G_5	
137	3	F_5	
138	2	A_2	
139	6	F_5	
140	7	F_0	
141	7	A_2	E.
142	3	F_5	E.
143	3	A_2	
144	3	F_0	
145	3	F_0	
146	2	A_2	
147	1	A	Partly superposed on 148.
148	3	F_0	
149	3	A	
150	8	A_0	
151	6	B_9	
152	1	A_5	
153	1	F_0	
154	1	G_5	
155	2	A_2	
156	2	A_0	
157	1	G_5	
158	1	F_0	
159	1	A_2	
Time 11.00	160	2	A_0	
	161	7	$G_5 p$	Hβ, IHε shrp, 4077 shrp, lines darkin nasm.
~~168~~				

136	+7°	1407	6	34.2 +7	36.8	8.4
137	+7°	1409	6	34.4 +7	31.8	7.3
138	+7°	1389	6	31.5 +7	23.8	8.8
139	+10°	1186	6	27.3 +10	6.4	7.0
140	+10°	1149	6	26.3 +10	23.5	6.6
141	+11°	1193	6	21.0 +11	6.5	7.1
142	+10°	1153	6	21.7 +10	45.3	8.0
143	+10°	1156	6	22.4 +10	13.1	8.3
144	+10°	1171	6	24.8 +10	15.8	8.2
145	+8°	1286	6	13.6 +8	46.0	8.3
146	+8°	1287	6	13.7 +8	52.2	8.9
147	+8°	1294	6	14.2 +8	57.4	9.0
148	+9°	1207	6	14.2 +9	12.7	8.0
149	+8°	1296	6	14.5 +8	28.3	8.8
150	+8°	1316	6	16.1 +8	57.7	6.4
151	+9°	1223	6	16.1 +9	14.3	7.5
152	+8°	1329	6	18.0 +8	47.4	9.1
153	+8°	1333	6	18.8 +8	43.1	8.5
154	+8°	1335	6	18.9 +8	28.0	8.8
155	+8°	1343	6	19.5 +8	29.4	8.8
156	+8°	1345	6	19.6 +8	38.6	8.7
157	+8°	1349	6	20.1 +8	20.6	8.7
158	+8°	1350	6	20.3 +8	46.5	8.5
159	+8°	1352	6	20.5 +8	38.8	8.8
160	+8°	1355	6	20.8 +8	16.2	9.0
161	+7	1273	6	17.4 +7	10	

Identified by AMC. Feb. 27, 1913

Checked by J.C.M. Feb. 28, 1913

cards made out by Miss C. W. Cards checked by E.C.P.

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Monday, Feb. 17, 1913.

Time: 11.15 B 12671 short disp.

No	Int.	Class	Remark
1	5	A1	
2	2	A3	
3	2	A1	
4	2	A1	
5	4	A3	
6	2	A2	
7	3	A2	
8	2	A2	
9	3	A1	
10	4	A1	
11	3	A3	
12	2	A1	
13	1	A1	
14	2	A0	
15	2	A5	
16	3	A2	
17	4	A0	
18	3	A0	
19	4	A0	
20	2	A0	
21	2	A0	
22	6	A0	
23	3	A2	
24	5	A0	
25	4	A0	
26	2	A2	
27	3	A5	

1 −0°	1255	6	12.0	−0	51.6	7.9
2 −1°	1193	6	12.5	−1	1.4	9.1
3 −1°	1205	6	13.9	−1	19.4	8.8
4 −1°	1213	6	14.7	−1	30.5	8.8
5 −1°	1217	6	15.0	−1	37.6	8.8
6 −1°	1216	6	15.0	−1	43.1	9.0
7 −1°	1218	6	15.5	−1	26.0	9.0
8 −1°	1221	6	15.8	−1	32.0	8.8
9 −0°	1276	6	16.0	−0	53.3	8.6
10 −0°	1280	6	16.6	−0	54.0	8.6
11 −0°	1278	6	16.3	−0	16.8	9.0
12 −0°	1272	6	15.2	−0	25.5	8.8
13 −0°	1268	6	14.7	−0	31.2	8.7
14 −0°	1267	6	14.4	−0	42.0	9.0
15 −0°	1264	6	14.1	−0	51.1	9.3
16 +0°	1397	6	15.2	+0	10.0	9.0
17 +0°	1399	6	15.8	+0	17.8	9.0
18 +0°	1405	6	16.6	+0	22.9	9.0
19 +0°	1410	6	17.6	+0	27.7	8.9
20 +0°	1409	6	17.4	+0	13.1	9.0
21 +0°	1406	6	16.7	+0	1.4	9.2
22 +0°	1403	6	16.5	+0	3.0	8.6
23 +0°	1402	6	16.3	+0	3.3	9.1
24 −0°	1288	6	17.6	−0	16.7	8.8
25 −0°	1288	6	18.3	−0	3.0	8.3
26 −0°	1291	6	19.0	−0	26.8	9.2
27 −0°	1297	6	19.4	−0	31.1	8.8

cards made out

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Monday, Feb. 17. 1913
B 12671 short disp.

No.	Int.	Class	Remarks
28	3	A2	
29	2	A2	
30	1	F2	
31	5	F0	
32	2	A0	
33	3	F0	
34	3	A2	
35	2	A2	
36	3	K0	
37	1	K5	
38	4	A0	
39	4	F2	
40	1	G5	
41	2	A	
42	4	F0	
43	2	F2	
44	2	A2	
45	4	A0	
46	2	A0	
47	1	A	
48	2	A2	
49	5	A0	
50	6	A0	
51	1	A	
52	2	A0	
53	4	B9	Faintly superposed on 54
54	5	A0	

28	-1°	1251	6	21.1	-1	4.7	9.1 1 v
29	-1°	1239	6	19.1	-1	16.4	9.1 1 v
30	-1°	1237	6	18.8	-1	28.8	9.0 1 v
31	-1°	1236	6	18.7	-1	44.4	8.5 1 v
32	-1°	1232	6	17.5	-1	43.1	9.1 1 v
33	-2°	1605	6	18.8	-2	22.3	8.8 1 v
34	-2°	1616	6	20.3	-2	7.3	8.7 1 v
35	-2°	1615	6	20.2	-2	21.3	9.0 1 v
36	-2°	1624	6	21.6	-2	25.1	8.2 1 v
37	-2°	1613	6	19.8	-2	58.7	9.0 1 v
38	-3°	1439	6	20.4	-3	28.0	9.0 1 v
39	-3°	1449	6	21.3	-3	7.5	9.0 1 v
40	-3°	1453	6	22.0	-3	4.0	8.8 1 v
41	-3°	1452	6	21.6	-3	21.9	9.6 1 v
42	-3°	1489	6	22.8	-3	8.1	8.9 1 v -3° 1460 22 9 -3 1462 6 Silverboard
43	-3°	1463	6	23.1	-3	8.2	9.1 1 v
44	-2°	1578	6	15.0	-2	32.1	9.0 1 v
45	-4°	1481	6	15.8	-4	7.1	8.5 1 v
46	-2°	1591	6	17.0	-2	53.9	9.2 1 v
47	-3°	1422	6	17.5	-3	54.7	9.1 1 v
48	-4°	1498	6	17.9	-4	21.6	8.9 1 v
49	-4°	1504	6	19.0	-4	38.1	8.5 1 v
50	-4°	1513	6	19.8	-4	32.8	8.7 1 v
51	-4°	1516	6	20.0	-4	27.6	9.1 1 v
52	-4°	1517	6	20.0	-4	41.7	9.0 1 v
53	-4°	1522	6	20.6	-4	44.4	8.5 1 v
54	-4°	1523	6	20.6	-4	51.0	8.3 1 v

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Tuesday, Feb. 17, 1913.
B1267, short exp.

No.	Int.	Class	Remark
55	5	A0	
56	3	A	
57	5	B8	
58	5	F0	
59	2	A2	
60	3	A0	
61	1	A5	
62	3	F0	
63	2	A5	11. 25 Feb. 12, 1913 11.55
64	2	F0	
65	2	F8	
66	3	A2	
67	2	F0	
68	2	F0	
69	2	F0	
70	1	A2	
71	3	F2	
72	3	A2	
73	2	A3	
74	5	A5	
75	3	A3	
76	4	F0	
77	7	F0	
78	8	B8	
79	4	A0	
80	4	F0	
81	1	F	

55 - 5°	1644	6	20.7 - 5	4.2	8.5	1 v
56 - 4°	1535	6	21.2 - 4	56.7	8.9	1 v
57 - 4°	1530	6	21.0 - 4	48.6	8.4	1 v
58 - 4°	1536	6	21.4 - 4	29.2	8.5	1 v
59 - 4°	1537	6	21.6 - 4	15.0	9.1	1 v
60 - 3°	1445	6	20.9 - 3	59.0	9.1	1 v
61 - 3°	1438	6	20.4 - 3	47.5	9.0	1 v
62 - 3°	1462	6	23.0 - 3	40.8	8.8	1 v
63 - 3°	1464	6	23.1 - 3	52.5	9.2	1 v
64 - 2°	1638	6	23.0 - 2	36.6	9.0	1 v
65 - 3°	1475	6	24.7 - 3	5.0	8.9	1 v
66 - 3°	1477	6	25.3 - 3	27.0	9.0	1 v
67 - 2°	1656	6	25.9 - 2	21.2	9.0	1 v
68 - 3°	1487	6	27.1 - 3	18.9	8.5	1 v
69 - 3°	1489	6	27.2 - 3	29.3	9.0	1 v
70 - 3°	1492	6	27.5 - 3	46.0	9.1	1 v
71 - 3°	1499	6	28.3 - 3	59.4	8.6	1 v
72 - 3°	1507	6	29.0 - 3	31.9	9.1	1 v
73 - 3°	1510	6	29.4 - 3	29.1	9.0	1 v
74 - 3°	1513	6	29.8 - 3	28.2	8.6	1 v
75 - 3°	1517	6	30.5 - 3	34.2	9.0	1 v
76 - 4°	1574	6	27.7 - 4	34.0	8.0	1 v
77 - 4°	1576	6	28.1 - 4	40.8	7.8	1 v
78 - 5°	1689	6	27.2 - 5	13.0	8.3	1 v
79 - 4°	1567	6	26.9 - 4	58.2	8.5	1 v
80 - 1°	1298	6	29.5 - 1	48.2	8.3	1 v
81 - 1°	1298	6	29.6 - 1	56.9	8.7	1 v

Cards made out

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Tuesday, Feb. 18, 1913.

B12671 short exp.

No.	Fat.	Class	Remark
82	2	A2	
83	4	A2	
84	7	F8	
85	3	A0	
86	5	A5	
87	4	A0	
88	4	F0	
89	2	A0	The following of two.
90	6	A0	
91	8	A	
92	3	B0	
93	3	A2	
94	4	F5	
95	2	B9	
96	2	A0	
97	3	F0	
98	4	A3	
99	1	F0	
100	7	F0	
101	3	A0	
102	4	A0	
103	6	ma	
104	6	A0	
105	1	F5	
106	10	B5	
107	5	A5	
108	3	A0	

82 - 1°	1317	6	32.4	-1	55.0	9.1	1	J
83 - 2°	1706	6	33.0	-2	58.3	8.5	1	J
84 - 2°	1716	6	34.1	-2	12.4	8.0	1	.
85 - 4°	1595	6	31.2	-4	8.9	9.0	1	J
86 - 4°	1597	6	31.4	-4	10.0	8.5	1	J
87 - 5°	1716	6	30.8	-5	25.0	8.8	1	J
88 - 5°	1724	6	31.6	-5	10.5	8.5	1	J
89 - 5°	1731	6	32.7	-5	16.1	9.1	1	J
90 - 5°	1735	6	33.0	-5	9.6	8.0	1	J
91 - 4°	1613	6	33.2	-4	51.8	9.2	1	J
92 - 4°	1607	6	32.9	-4	34.2	8.5	1	J
93 - 4°	1609	6	33.0	-4	28.4	9.0	1	J
94 - 4°	1610	6	33.1	-4	19.8	7.7	1	J
95 - 4°	1611	6	33.1	-4	34.9	9.0	1	J
96 - 4°	1615	6	33.5	-4	28.2	9.2	1	J
97 - 4°	1616	6	33.8	-4	46.1	8.8	1	J
98 - 4°	1620	6	34.9	-4	37.8	8.9	1	J
99 - 5°	1744	6	33.8	-5	24.0	8.8	1	J
100 - 5°	1747	6	34.0	-5	34.3	7.7	1	J
101 - 5°	1748	6	33.7	-5	41.5	9.1	1	J
102 - 5°	1733	6	32.9	-5	41.0	9.3	1	J
103 - 6°	1664	6	33.2	-6	13.1	7.3	1	J
104 - 6°	1679	6	34.4	-6	0.6	8.5	1	J
105 - 6°	1682	6	34.7	-6	1.5	8.5	1	.
106 - 5°	1758	6	35.0	-5	58.5	7.0	1	J
107 - 6°	1684	6	35.1	-6	12.4	8.7	1	J
108 - 5°	1755	6	35.4	-5	55.8	9.2	1	J

Cords made all

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Tuesday, Feb. 18, 1913.

B12671 Ghat disp.

No.	Int.	Class	Remark
109	2	Ho	The southern of two.
110	3	Ao	
111	4	F2	
112	3	Ao	
113	5	A5	
114	4	A2	
115	4	Ao	
116	7	A3	
117	9	F8	
118	2	F2	
119	7	Ao	
120	5	A2	
121	4	B9	
122	8	B8	
123	9	B8	
124	3	F0	
125	3	G5	
126	1	A	
127	2	G5	
128	10	B8	
129	3	A2	
130	3	A2	
131	2	G5	
132	2	F2	
133	2	A2	
134	2	F0	
135	3	F5	

109	-4°	1632	6	36.0	-4	38.1	9.0	1 ✓
110	-4°	1640	6	37.0	-4	15.1	9.1	1 ✓
111	-4°	1641	6	37.2	-4	27.6	8.7	1 ✓
112	-4°	1642	6	37.4	-4	20.7	9.0	1 ✓
113	-4°	1644	6	37.6	-4	15.2	8.8	1 ✓
114	-3°	1576	6	38.1	-3	48.8	8.9	1 ✓
115	-3°	1681	6	38.8	-3	39.2	8.8	1 ✓
116	-4°	1664	6	40.8	-4	5.8	8.0	1 ✓
117	-3°	1603	6	41.4	-3	54.9	7.8	1 ✓
118	-4°	1668	6	41.2	-4	13.6	8.5	1 ✓
119	-4°	1667	6	41.2	-4	32.7	8.1	1 ✓
120	-4°	1676	6	41.8	-4	31.6	8.7	1 ✓
121	-4°	1678	6	41.9	-4	19.7	9.0	1 ✓
122	-4°	1665	6	40.8	-4	59.6	7.9	1 ✓
123	-4°	1685	6	43.5	-4	6.2	7.2	1 ✓
124	-4°	1688	6	43.8	-4	6.0	8.2	1 ✓
125	-3°	1671	6	44.1	-3	56.5	9.0	1 ✓ 3 9682 6 44.2 -3 56.5 9.4 superposed
126	-4°	1695	6	44.5	-4	1.2	9.4	1 ✓
127	-4°	1691	6	44.0	-4	20.0	8.7	1 ✓
128	-3°	1620	6	44.1	-3	20.4	8.0	1 ✓
129	-3°	1610	6	42.8	-3	27.4	9.1	1 ✓
130	-3°	1612	6	42.8	-3	42.2	9.2	1 ✓
131	-3°	1617	6	43.7	-3	42.7	8.8	1 ✓
132	-0°	1314	6	23.1	-0	10.8	8.8	1 ✓
133	-0°	1315	6	23.2	-0	17.5	9.0	1 ✓
134	-0°	1326	6	24.7	-0	~~57.3~~ 0.3	~~9.0~~ 8.6	1 ✓
135	-0°	1343	6	27.3	-0	53.7	9.0	1 ✓

Cards made out

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Tuesday, Feb. 18, 1913.

B13671 about disp.

No.	Int.	Class	Remark
136	3	A2	
137	2	F5	
138	1	F0	
139	1	F2	
140	2	F0	
141	2	F2	
142	3	F8	
143	3	F0	
144	1	F0	Partly superposed on 143.
145	1	F0	
146	3	A5	
147	2	A3	
148	3	A2	
149	4	A5	
150	2	F8	
151	2	A2	
152	4	A2	
153	1	F0	
154	2	F	Another star partly superposed.
155	8	F0	
June 12.26 156	3	A	E.
157			
158			
159			

ent. 133, 26

136 −1°	1283	6	27.3	−1	5.2	9.3	1 ✓
137 +0°	1499	6	28.6	+0	4.9	9.1	1 ✓
138 +0°	1486	6	27.5	+0	7.9	9.2	1 ✓
139 +0°	1474	6	26.2	+0	4.4	8.9	∧ ✓
140 −0°	1338	6	26.7	−0	0.6	9.2	1 ✓
141 −0°	1346	6	27.4	−0	15.4	9.5	1 ✓
142 +0°	1506	6	29.6	+0	22.7	9.2	1 ✓
143 +1°	1447	6	31.6	+1	12.8	8.8	∧ ✓
144 +1°	1446	6	31.5	+1	13.0	9.2	1 ✓
145 +1°	1437	6	30.6	+1	8.3	9.0	1 ✓
146 +1°	1435	6	30.4	+1	19.8	9.0	1 ✓
147 +1°	1429	6	30.1	+1	20.3	9.2	1 ✓
148 +1°	1421	6	29.4	+1	26.0	9.0	1 ✓
149 +1°	1406	6	27.8	+1	24.0	9.2	1 ✓
150 +0°	1479	6	26.7	+0	58.5	9.2	1 ✓
151 +1°	1399	6	27.0	+1	34.0	9.3	∧ ✓ magn. 9.5 +1° 1398 Superposed
152 +0°	1460	6	24.1	+0	54.7	9.0	∧ ✓
153 +0°	1442	6	22.0	+0	17.3	8.9	∧ ✓
154 +0°	1445	6	22.7	+0	51.9	9.0	∧ ✓ magn. 9.2 +0° 1444 Superposed
155 +0°	1414	6	18.4	+0	53.3	7.5	∧ ✓
156 +1°	1334	6	18.1	+1	13.1	9.0	∧ ✓

Identified by Ames. Mar. 7, 1913.
Checked March. 19 1913 L.D.W.
cards made out by M.C.W.

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Tuesday Feb. 18, 1913

Time: 12:30

B20867 shot disp.

No.	Int.	Class	Remark
1	1	H0	
2	3	H0	
3	3	A2	
4	4	A0	
5	3	A2	
6	4	B9	
7	5	B8	
8	5	A0	
9	4	B9	
10	2	G0	
11	2	A0	
12	2	A0	
13	3	B8	
14	3	H0	
15	4	A0	
16	2	A2	
17	4	B9	
18	5	A0	
19	4	A3	
20	5	A2	
21	4	B9	
22	2	A0	
23	6	B9	
24	3	A0	
25	5	B9	
26	2	A3	
27	2	A3	

1	+0°	1555	6	35.7	+ 0	11.5	8.8	∧ ∨
2	+0°	1571	6	37.0	+ 0	3.0	8.6	∧ ∨
3	−0°	1418[7]	6	38.1	− 0	19.3	9.0	∧ ∨
4	+0°	1589	6	38.9	+ 0	15.3	8.9	∧ ∨
5	−0°	1426	6	39.3	− 0	42.0	9.0	∧ ∨
6	−0°	1428	6	39.7	− 0	50.3	9.1	∧ ∨
7	−0°	1433	6	40.4	− 0	41.7	8.5	∧ ∨
8	−0°	1438	6	41.0	− 0	53.2	8.9	∧ ∨
9	−1°	1379	6	40.4	− 1	11.5	9.0	∧ ∨
10	−0°	1431	6	40.1	− 0	59.3	9.0	∧ ∨
11	−0°	1430	6	39.8	− 0	58.4	9.4	∧ ∨
12	−1°	1374	6	39.6	− 1	3.1	9.3	∧ ∨
13	−1°	1368	6	38.6	− 1	16.7	9.3	∧ ∨
14	−1°	1369	6	38.7	− 1	32.1	8.6	∧ ∨
15	−1°	1372	6	39.2	− 1	58.0	9.0	∧ ∨ a 2° 19.58 b 39.2 −2 3.6 9.6 superposed
16	−2°	1757	6	39.2	− 2	7.5	9.5	∧ ∨
17	−2°	1754	6	38.9	− 2	14.5	9.0	∧ ∨
18	−2°	1762	6	39.6	− 2	33.5	9.0	∧ ∨
19	−2°	1764	6	39.9	− 2	41.2	9.1	∧ ∨
20	−2°	1766	6	40.1	− 2	15.9	8.9	∧ ∨
21	−2°	1771	6	41.2	− 2	2.1	9.3	∧ ∨
22	−2°	1777	6	42.0	− 2	29.4	9.2	∧ ∨
23	−2°	1783	6	42.7	− 2	6.9	8.5	∧ ∨
24	−1°	1402	6	42.9	− 1	33.8	9.0	∧ ∨
25	−1°	1406	6	43.4	− 1	21.1	9.1	∧ ∨
26	−1°	1404	6	43.1	− 1	4.1	9.3	∧ ∨
27	−0°	1463	6	43.6	− 0	59.3	9.4	∧ ∨

cards made out

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Tuesday Feb 18, 1913

B 20867 short exps.

No.	Int.	Class	Remark
28	3	Ao	
29	2	F8	
30	4	B9	
31	7	K5	
32	2	B9	
33	2	M5	
34	2	A5	
35	7	Ao	
36	4	B9	
37	4	A2	
38	10	F2	
39	8	M2	
40	3	B8	
41	9	A3	
42	5	Ao	
43	7	Ao	
44	3	M5	
45	4	B9	
46	3	K5	
47	2	A2	
48	3	F2	
49	4	B8	
50	3	Ao	
51	2	B9	
52	1	M5	
53	1	A	
54	4	B3	

28	-0°	1457	6	43.1	-0	32.2	8.3 ∨
		~~1458~~	6	~~43.2~~	-0	~~25.0~~	~~8.8~~
29	-0°	1458	6	43.1	-0	20.2	9.0 ∧∨
30	-0°	1449	6	42.1	-0	3.5	8.8 ∧∨
31	-0°	1446	6	41.8	-0	16.0	8.5 ∧∨
32	-0°	1448	6	42.0	-0	23.7	9.0 ∧∨
33	+0°	1616	6	41.4	+0	1.2	8.8 ∧∨
34	-0°	1437	6	41.0	-0	22.3	9.1 ∧∨
35	-1°	1409	6	44.0	-1	47.8	8.5 ∧∨
36	-1°	1413	6	44.3	-1	29.3	8.9 ∧
37	-1°	1414	6	44.6	-1	28.8	9.0 ∧∨
38	-2°	1801	6	44.6	-2	0.2	7.7 ∧∨
39	-2°	1798	6	44.4	-2	13.7	7.0 ∧∨
40	-2°	1797	6	44.3	-2	28.9	9.1 ∧∨
41	-2°	1794	6	43.9	-2	46.9	8.2 ∧∨ -2° 1793 9.5 superposed
42	-2°	1796	6	44.3	-2	51.0	8.8 ∧∨
43	-2°	1806	6	45.2	-2	53.6	8.5 ∧∨
44	-2°	1809	6	45.7	-2	53.4	8.8 ∧∨
45	-2°	1805	6	45.1	-2	10.4	9.0 ∧∨
46	-2°	1808	6	45.6	-2	11.5	8.9 ∧∨
47	-2°	1811	6	46.2	-2	9.6	9.2 ∧∨
48	-1°	1423	6	46.4	-1	47.7	9.1 ∧∨
49	-1°	1424	6	45.4	-1	32.6	9.0 ∧∨
50	-1°	1428	6	45.7	-1	43.0	9.2 ∧∨
51	-1°	1429	6	45.8	-1	24.7	9.3 ∧∨
52	-1°	1420	6	45.0	-1	14.1	9.3 ∧∨
53	-1°	1418	6	44.9	-1	22.5	9.3 ∧∨
54	-0°	1470	6	44.9	-0	30.2	8.8 ∧∨

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Tuesday, Feb. 18, 1913.
B2086 / short exp.

No.	Int.	Class	Remark
55	1	F0	
56	1	G5	
57	2	A	
58	1	B9	
59	1	A0	
60	2	G0	
61	3	B9	Partly superposed on 62.
62	4	B9	
63	10	B5	
64	4	A0	
65	3	A2	
66	3	K0	
67	5	B5	
68	3	B8	
69	2	F0	
70	4	A0	
71	3	A0	
72	3	K5	
73	2	A0	
74	3	B9	
75	4	A3	
76	2	A3	
77	5	A0	
78	3	A0	
79	2	K2	
80	2	K6	
81	2	B9	

55	−0°	1474	6	45.8	−0	39.6	9.1
56	−0°	1477	6	46.3	−0	48.7	9.0
57	−1°	1435	6	46.1	−1	2.8	9.5
58	−1°	1436	6	46.2	−1	29.4	9.5
59	−1°	1439	6	46.8	−1	26.8	9.3
60	−1°	1440	6	46.8	−1	38.0	8.8
61	−1°	1442	6	47.0	−1	28.6	9.0
62	−1°	1443	6	47.1	−1	27.9	9.0
63	−1°	1446	6	47.4	−1	34.9	6.7
64	−1°	1453	6	47.9	−1	37.3	9.3
65	−0°	1489	6	47.5	−0	53.6	9.0
66	−1°	1447	6	47.5	−1	6.6	8.5
67	−1°	1449	6	47.5	−1	12.1	8.5
68	−0°	1494	6	48.1	−0	39.3	9.2
69	−0°	1500	6	48.8	−0	48.0	9.0
70	−0°	1502	6	49.0	−0	41.2	9.0
71	−0°	1505	6	49.4	−0	43.5	9.0
72	−0°	1501	6	49.0	−0	49.3	8.5
73	−1°	1458	6	48.5	−1	4.5	9.3
74	−1°	1456	6	48.3	−1	21.2	9.3
75	−1°	1472	6	50.0	−1	6.0	9.0
76	−1°	1476	6	50.7	−1	36.3	9.3
77	−1°	1480	6	51.2	−1	25.3	8.9
78	−1°	1483	6	51.5	−1	10.8	9.2
79	−1°	1482	6	51.5	−1	38.2	8.7
80	−1°	1485	6	51.9	−1	21.2	9.0
81	−1°	1487	6	52.0	−1	9.8	9.5

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Tuesday. Feb. 18, 1913.

B20867 short exps.

	No.	Int.	Class	Remark
	82	3	A5	
	83	3	K0	
	84	4	B8	
	85	10	K0	
	86	6	K0	
	87	2	A0	
	88	3	K0	
	89	3	A2	
	90	2	A2	
	91	4	A2	
	92	2	F0	
	93	3	A0	
Time: 12.40	94	10	B3	
" 1.00	95	3	A0	
	96	3	K5	
	97	4	A0	
	98	6	A2	
	99	3	K0	
	100	8	K0	
	101	2	A0	
	102	5	B9	
	103	1	K0	
	104	2	B9	
	105	5	B9	
	106	4	A	Hazy afterward on 105.
	107	5	A0	
	108	4	K	3, 6, 10.

82	-1°	1495	6	53.0	-1	23.4	9.1	∧ ∨
83	-2°	1816	6	46.8	-2	33.3	8.9	∧ ∨
84	-2°	1820	6	47.1	-2	33.2	9.1	∧ ∨
85	-2°	1827	6	47.7	-2	37.0	6.3	∧ ∨
86	-2°	1829	6	47.9	-2	17.9	7.8	∧ ∨
87	-1°	1450	6	47.6	-1	57.7	9.3	∧ ∨
88	-2°	1840	6	49.1	-2	0.5	9.0	∧ ∨
89	-1°	1470	6	49.7	-1	50.5	9.0	∧ ∨
90	-2°	1836	6	48.8	-2	14.3	9.5	∧ ∨
91	-2°	1844	6	49.9	-2	17.5	9.1	∧ ∨
92	-2°	1847	6	50.2	-2	45.1	9.2	∧ ∨
93	-2°	1854	6	50.6	-2	30.9	9.4	∧ ∨
94	-2°	1856	6	51.2	-2	50.2	7.8	∧ ∨
95	-2°	1861	6	51.7	-2	58.1	9.4	∧ ∨
96	-3°	1674	6	51.9	-3	2.5	9.1	∧ ∨
97	-2°	1865	6	52.3	-2	32.9	9.5	∧ ∨
98	-2°	1869	6	52.6	-2	43.4	8.8	∧ ∨
99	-2°	1870	6	52.9	-2	39.0	8.8	∧ ∨
100	-2°	1873	6	53.1	-2	13.7	8.2	∧ ∨
101	-2°	1882	6	53.9	-2	7.5	9.5	∧ ∨
102	-2°	1883	6	54.0	-2	33.0	9.1	∧ ∨
103	-2°	1879	6	53.6	-2	25.4	9.4	∧ ∨
104	-2°	1878	6	53.3	-2	36.5	9.8	∧ ∨
105	-2°	1874	6	53.1	-2	48.7	9.1	∧ ∨
106	-2°	1876	6	53.2	-2	46.7	9.3	∧ ∨
107	-2°	1877	6	53.2	-2	51.0	9.1	∧ ∨
108	-3°	1685	6	53.8	-3	3.3	7.7	∧ ∨

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Tuesday, Feb. 18, 1913.

B 20867 short exp.

	No.	Int.	Class	Remark
	109	3	B8	
Feb. 19, 1913 1.06 10.22	110	8	B3	
	111	1	G5	The southern of two.
	112	3	B35	
	113	4	G5	
	114	7	A5	
	115	6	B8	
	116	8	A3	
	117	3	A2	
	118	10	B9	
	119	4	F0	
	120	5	A2	
	121	4	A2	
	122	2	F0	
	123	2	A0	
	124	2	A0	
	125	1	A0	
	126	2	F2	
	127	4	A0	
	128	7	A0	
	129	4	B9	
	130	2	A0	
	131	5	A0	
	132	1	F5	
	133	3	A2	
	134	3	A0	
	135	4	B8	

109 − 2°	1884	6	54.1 − 2	55.8	9.3	∧ ∨
110 − 2°	1885	6	54.2 − 2	54.7	8.0	∧ ∨
111 − 3°	1691	6	54.3 − 3	0.2	9.3	∧ ∨
112 − 3°	1695	6	54.9 − 3	4.2	9.1	∧ ∨
113 − 3°	1699	6	55.2 − 3	7.5	9.0	∧ ∨
114 − 3°	1698	6	55.2 − 3	15.2	8.7	∧ ∧
115 − 2°	1896	6	55.9 − 2	57.3	9.2	∧ ∨
116 − 2°	1899	6	56.2 − 2	49.0	8.0	∧ ∨
117 − 2°	1898	6	56.1 − 2	32.2	9.3	∧ ∨
118 − 2°	1900	6	56.3 − 2	15.8	8.3	∧ ∨
119 − 1°	1514	6	55.6 − 1	59.8	9.0	∧ ∨
120 − 1°	1516	6	55.6 − 1	49.9	8.7	∧ ∧
121 − 1°	1517	6	56.0 − 1	50.8	8.7	∧ ∪
122 − 1°	1511	6	55.0 − 1	47.9	8.7	∧ ∧
123 − 1°	1513	6	55.4 − 1	36.9	9.3	∧ ∪
124 − 1°	1520	6	56.3 − 1	40.7	9.3	∧ ∨
125 − 1°	1522	6	56.5 − 1	56.3	9.3	∧ ∨
126 − 2°	1903	6	56.6 − 2	2.5	9.1	∧ ∨
127 − 2°	1904	6	56.7 − 2	10.0	9.1	∧ ∪
128 − 1°	1525	6	56.9 − 1	58.5	8.5	∧ ∨
129 − 1°	1531	6	57.2 − 1	42.0	9.2	∧ ∨
130 − 1°	1530	6	57.2 − 1	34.5	9.2	∧ ∨
131 − 1°	1533	6	57.4 − 1	27.5	8.6	∧ ∨
132 − 1°	1534	6	57.5 − 1	36.1	8.9	∧ ∨
133 − 1°	1535	6	57.6 − 1	34.1	9.0	∧ ∨
134 − 1°	1539	6	58.0 − 1	21.4	8.8	∧ ∨
135 − 1°	1542	6	58.4 − 1	17.8	8.8	∧ ∨

Mr. Hain reen. of ϕ. ϕ = 2°, 1886

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Wednesday Feb 19, 1913.
T3208 7 short exp

No.	Int.	Class	Remark
136	3	Ao	
137	4	T3g	
138	1	Ao	
139	1	Ao	
140	3	F0	
141	2	F5	
142	1	A	
143	1	A	
144	2	Ao	
145	5	Ao	
146	5	G5	
147	2	T38	
148	10	T38	
149	8	A5	
150	8	T38	
151	5	F0	
152	1	A	
153	4	T3g	
154	2	Ma	
155	9	T3g	
156	7	F2	Partly superposed on 155.
157	5	A2	
158	7	Ao	
159	2	F5	
160	2	F0	
161	7	Ao	
162	1	Ao	

136	-0°	1589	6	58.5	-0	55.1	9.0	∧✓
137	-1°	1546	6	58.7	-1	5.3	9.2	∧✓
138	-1°	1544	6	58.6	-1	14.3	9.3	∧✓
139	-1°	1547	6	58.7	-1	20.0	9.2	∧✓
140	-1°	1548	6	58.8	-1	39.3	8.8	∧✓
141	-1°	1541	6	58.2	-1	60.8	8.8	∧✓
142	(Polaris 1900 (1885)		6	57.5	-1	55		Not on northern Dm. chart
143	-2°	1917	6	58.1	-2	6.8	9.5	∧✓
144	-2°	1906	6	56.9	-2	16.0	9.5	∧✓
145	-3°	1713	6	57.0	-3	2.6	9.0	∧✓
146	-2°	1908	6	57.1	-2	50.6	8.6	∧✓
147	-3°	1722	6	58.1	-3	7.0	9.3	∧✓
148	-2°	1925	6	59.2	-2	53.9	7.6	∧✓
149	-3°	1732	6	59.2	-3	3.1	8.3	∧✓
150	-2°	1931	6	59.6	-2	31.6	8.0	∧✓
151	-2°	1936	6 & 7	0.0	-2	44.6	8.3	∧✓
152	-2°	1935	6	59.9	-2	48.7	9.3	∧✓
153	-3°	1742	7	0.0	-3	0.1	9.0	∧✓
154	-3°	1750	7	0.6	-3	9.4	8.3	∧✓
155	-2°	1941	7	1.0	-2	57.8	8.4	∧✓
156	-3°	1757	7	1.0	-3	3.9	8.7	∧✓
157	-2°	1945	7	1.6	-2	28.5	8.8	∧✓
158	-1°	1559	7	0.1	-1	36.5	8.6	∧✓
159	-1°	1554	6	59.6	-1	20.1	9.0	∧✓
160	-1°	1557	7	0.0	-1	19.1	8.5	∧✓
161	-0°	1608	7	0.7	-0	42.8	8.8	∧✓
162	-0°	1607	7	0.5	-0	43.6	9.3	∧✓

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	Ver.	Dist.	Class	Remark
	163	4	Ao	
	164	4	A2	
	165	3	F0	
	166	2	Ao	
	167	3	F0	
	168	7	F0	
	169	2	F5	
	170	3	Ao	
	171	2	A2	
	172	2	Ao	
	173	2	A2	
	174	3	Ao	
10.46	175	2	A2	
11.36	176	3	B9	
	177	4	F2	
	178	3	F0	
	179	3	F5	
	180	2	F5	
	181	2	B9	
	182	3	Ao	
	183	3	A	
	184	6	F0	
	185	2	A2	
	186	1	A	
	187	2	A	
	188	2	F2	
	189	3	F2	

163 − 0°	1609 1674	7	0.8	− 0	54.8 ~~72.0~~	9.1 ~~8.8~~	∧ ∨
164 − 0°	1618 ~~1668~~	7	2 1.8	− 0	59.9 ~~45.7~~	8.9 9.0	∧ ∨
165 − 1°	1565	7	1.4	− 1	33.5	8.5	∧ ∨
166 − 0°	1577 1576	6	57.0 56.9	− 0 − 0	~~51.3~~ 49.0	~~9.3~~ 9.4	∨
167 − 0°	1579	6	57.3	− 0	15.9	9.0	∧ ∨
168 − 0°	1587	6	58.2	− 0	34.2	7.9	∧ ∨
169 − 0°	1592	6	58.8	− 0	21.3	8.8	∧ ∨
170 − 0°	1595	6	59.0	− 0	41.9	9.3	∧ ∨
171 − 0°	1597	6	59.3	− 0	47.9	9.2	∧ ∨
172 + 0°	1800	6	58.9	+ 0	1.9	9.2	∧ ∨
173 − 0°	1601	6	59.7	− 0	1.9	9.2	∧ ∨
174 − 0°	1610	6 7	0.8	− 0	12.0	8.8	∧ ∨
175 + 0°	1817	7	1.1	+ 0	7.0	9.0	∧ ∨
176 + 1°	1549	6	43.9	+ 1	7.9	9.2	∧ ∨
177 + 0°	1656	6	44.2	+ 0	58.4	8.8	∧ ∨
178 + 1°	1562	6	44.6	+ 1	~~25.7~~ 10.8	~~8.5~~ 8.4	∧ ∨
179 + 1°	1565	6	44.9	+ 1	10.8	8.4	∧ ∨
180 + 1°	1562	6	6 44.5	+ 1	~~32.7~~ 25.7	~~7.3~~ 8.5	∧ ∨
181 + 1°	1557 1555	6	44.1 44.1	+ 1 + 1	24.7 ~~24.3~~	9.3 9.0	∨
182 + 2°	1427	6	43.5	+ 2	1.3	9.1	∧ ∨
183 + 2°	1454	6	46.4	+ 2	18.2	9.3	∧ ∨
184 + 2°	1460	6	47.4	+ 2	13.5	8.3	∧ ∨
185 + 1°	1599	6	49.0	+ 1	53.5	9.3	∧ ∨
186 + 1°	1601	6	49.1	+ 1	42.0	9.2	∧ ∨
187 + 1°	1602	6	49.2	+ 1	40.3	9.0	∧ ∨
188 + 1°	1603	6	49.2	+ 1	8.4	8.6	∧ ∨
189 + 0°	1718	6	49.3	+ 0	35.5	8.7	∧ ∨

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Wednesday, Feb. 19, 1913.
B 20867 about auf.

No.	Int.	Class	Remark
190	3	B8	
191	1	F5	
192	2	F2	
193	3	B8	
194	1	A0	
195	3	A2	
196	3	B9	
197	3	A0	
198	1	A5	
199	1	A5	
200	2	A2	
201	3	B8	
202	3	B8	
203	1	F0	
204	1	F2	
205	4	B9	
206	6	A0	
207	1	F5	
208	2	B9	
209	3	B9	
210	1	F2	
211	1	F0	
212	2	F0	
213	2	F8	
214	3	G5	
215	3	F8	
216	3	A0	

190	+0°	1734	6	50.4	+0	29.2	9.2 ↑↓
191	+0°	1736	6	50.4	+0	13.7	9.0 ∧/
192	+0°	1740	6	51.1	+0	17.1	8.8 ↑↓
193	+1°	1616	6	51.5	+1	7.5	9.2 ∧↓
194	+1°	1613	6	51.0	+1	11.9	9.3 ↑↓
195	-0°	1517	6	51.0	-0	10.1	9.0 ∧↓
196	-0°	1516	6	50.9	-0	20.6	8.8 ∧↓
197	-0°	1520	6	51.2	-0	15.1	9.3 ∧↓
198	-0°	1533	6	52.6	-0	14.9	8.8 ∧↓
199	+0°	1747	6	52.5	+0	9.1	9.2 ↑↓
200	+0°	1749	6	53.6	+0	15.3	9.3 ∧↓
201	+0°	1748	6	53.6	+0	7.2	9.5 ∧↓
202	+0°	1754	6	53.1	+0	18.3	9.1 ∧↓
203	+0°	1752	6	53.0	+0	5.4	9.2 ∧↓
204	-0°	1545	6	53.7	-0	13.0	8.8 ∧↓
205	-0°	1554	6	54.4	-0	9.6	8.9 ∧↓ -0° 1552 Superposed. magn. 9.2
206	+0°	1766	6	54.4	+0	6.1	8.9 ∧↓
207	+0°	1767	6	54.7	+0	9.1	9.3 ↑↓
208	-0°	1549	6	54.2	-0	36.6	9.3 ∧↓
209	-0°	1553	6	54.3	-0	36.0	9.1 ∧↓
210	-0°	1560	6	55.1	-0	45.5	9.1 ∧↓
211	-0°	1566	6	55.8	-0	0.2	8.9 ↑↓
212	+0°	1778	6	56.2	+0	18.1	9.2 ∧↓
213	+0°	1780	6	56.4	+0	20.6	9.2 ∧↓
214	+0°	1783	6	56.7	+0	14.2	9.0 ∧↓
215	+0°	1781	6	56.4	+0	54.5	9.0 ∧↓
216	+1°	1670	6	57.1	+1	24.0	8.9 ∧↓

Caelo madi aut

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Wednesday Feb. 19, 1913.
B 20867 shot disp.

No.	Int.	Class	Remark
217	3	Go	
218	2	Ab	
219	3	Ae	
220	1	A2	
221	1	K0	
222	1	A2	
223	3	F2	
224	2	F2	
225	2	Ao	The following of two.
226	4	B	Almost ovt. Cannot subdivide.
227	3	A2	
228	3	A2	
229	3	Ao	
230	2	B9	
231	3	Ao	
232	1	F5	
233	1	G0	
234	5	B8	
235	2	B8	
236	3	F8	
237	2	A	
238	1	K0	
239	2	A2	
240	2	B	Almost ovt.
241	2	Ao	
242	2	A2	
243	3	B8	Focus poor.

217	+1°	1677	6	57.6	+1	37.3	8.8	↑↓
218	+1°	1678	6	57.7	+1	46.1	9.2	↑↓
219	+1°	1676	6	57.5	+1	48.5	9.2	↑↓
220	+1°	1645	6	54.3	+1	19.1	9.1	↑↓
221	+0°	1757	6	53.6	+0	52.0	9.0	↑↓
222	+1°	1638	6	53.2	+1	2.8	9.2	↑↓
223	+0°	1705	6	48.0	+0	31.7	8.7	↑↓
224	+0°	1701	6	47.8	+0	23.8	8.8	↑↓
225	+0°	1700	6	47.7	+0	31.4	9.5	↑↓
226	+0°	1691	6	46.9	+0	20.8	8.6	↑↓
227	-0°	1488	6	47.2	-0	16.1	9.0	↑↓
228	-0°	1484	6	46.9	-0	26.8	9.0	↑↓
229	-0°	1482	6	46.8	-0	2.2	9.0	↑↓
230	+0°	1686	6	46.8	+0	3.6	9.2	↑↓
231	-0°	1481	6	46.6	-0	15.8	8.8	↑↓
232	-0°	1480	6	46.5	-0	33.0	9.0	↑↓
233	-0°	1476	6	46.3	-0	20.7	8.8	↑↓
234	-0°	1478	6	46.4	-0	7.2	9.0	↑↓
235	+0°	1675	6	45.6	+0	22.0	9.2	↑↓
236	+0°	1687	6	46.5	+0	44.6	9.0	↑↓
237	+0°	1673	6	45.4	+0	57.6	9.3	↑↓
238	+0°	1665	6	44.8	+0	37.5	9.0	↑↓
239	+0°	1617	6	45.0	+0	27.6	9.3	↑↓
240	+0°	1651	6	44.1	+0	28.2	8.5	↑↓
241	+0°	1655	6	43.9	+0	6.6	9.4	↓
242	-1°	1410	6	44.1	-1	9.8	9.2	↑↓
243	+0°	1624	6	41.7	+0	14.9	9.1	↑↓

cards made out

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Wednesday. Feb. 19, 1913.

T3 2086 Yerkes disp.

No.	Int.	Class	Remark
244	3	Q2	
245	2	Q2	
246	2	B?	Almost evit.
247	3	Q	E.
248	3	Q5	
249	2	Q3	E.
250	3	F2	
251	3	B9	
252	4	B9	
253	6	B9	
254	2	Q	
255	2	Q	
256	1	1/0	
Feb 12. 85 Feb 21 1913 9.58 257	2	1/0	
258	1	1/0	
259	2	Qo	
260	2	Qo	
261	2	Qo	
262	1	Q	Superposed on 261. + 263
263	1	F	Faily superposed on 262.
264	4	F2	
265	1	1/0	
Imi. 10.00 266	2	Qo	
267			Comp Bl. 133, 180
268			
269			
270			

244 +1°	1527	6	41.2 +1	20.2	9.2	∧ J
245 +1°	1524	6	41.0 +1	6.3	9.1	∧ ∨
246 +0°	1607	6	40.5 +0	56.1	9.0	∧ J
247 +1°	1504	6	39.4 +1	40.0	9.2	∧ ∨
248 −0°	1413	6	37.3 −0	57.5	9.1	∧ ∨
249 −1°	1351	6	36.9 −1	8.8	9.2	∧ ∨
250 −1°	1354	6	37.4 −1	29.1	9.3	∧ .
251 −1°	1353	6	37.0 −1	48.4	9.4	∧ ∨
252 −1°	1362	6	37.9 −1	57.2	8.8	∧ .
253 −2°	1744	6	37.7 −2	43.9	8.8	∧ J
254 −2°	1739	6	36.9 −2	50.3	9.4	∧ J
255 −2°	1733	6	35.8 −2	24.8	9.1	∧ ∨
256 −2°	1729	6	35.6 −2	36.1	8.8	∧ ∨
257 −2°	1711	6	33.8 −2	47.1	9.1	∧ ∨
258 −3°	1606	6	42.0 −3	10.3	9.0	∧ ∨
259 −3°	1602	6	41.4 −3	4.4	9.2	∧ J
260 −2°	1770	6	40.9 −2	46.6	9.3	∧ ∨
261 −3°	1597	6	41.0 −3	6.3	9.5	∧ ∨
262 −3°	1598	6	41.1 −3	1.3	9.4	∧ J
263 −3°	1599	6	41.1 −3	54	9.4	∧ ∨
264 −3°	1600	6	41.3 −3	20.3	8.5	∧ ∨
265 −3°	1605	6	41.8 −3	28.3	8.7	∧ .
266 −3°	1584	6	39.2 −3	4.2	9.2	∧ J

Identified by AMC Mar. 11, 1913
Checked May 1. 1913 LSW
cards made out by M. C. W.
Cards checked by AMC

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Wednesday, Feb. 19, 1913.

Time: 12.0h

B20895 shot exp.

No.	Int.	Class	Remark
1	3	A2	
2	1	A	
3	4	F3 5	
4	5	K0	
5	2	K0	
6	2	F8	
7	3	F0	
8	2	A0	
9	10	K2	
10	10	K0	
11	2	K0	
12	2	A5	
13	3	F0	
14	4	K0	
15	1	K	9, 6, 10.
16	3	A0	The preceding of two.
17	1	A	
18	5	K5	
19	2	K0	
20	2	F8	
21	8	A0	
22	3	A0	
23	4	F0	
24	3	B?	Almost comet.
25	2	B8A	From prev.
26	5	B3	
27	6	B8	The nfp. of two.

1 – 3°	1624	6	44.5	– 3	9.1	9.2	∧ ∨
2 – 3°	1625	6	44.5	– 3	28.8	9.5	∧ ∨
3 – 3°	1630	6	45.5	– 3	30.6	8.8	∧ ∨
4 – 4°	1688	6	43.8	– 4	6.0	8.2	∧ ∨
5 – 4°	1691	6	44.0	– 4	20.0	8.7	∧ ∨
6 – 4°	1694	6	44.3	– 4	32.9	9.6	∧ ∨
7 – 4°	1692	6	44.2	– 4	44.8	9.5	∧ ∨
8 – 4°	1690	6	43.9	– 4	49.5	9.5	∧ ∨ N 1689 6 W 39-45 46 9.6 superposed.
9 – 5°	1844	6	45.2	– 5	0.2	6.9	∧ ∨
10 – 5°	1845	6	45.3	– 5	8.7	6.3	∧ ∨
11 – 5°	1851	6	45.6	– 5	15.4	9.0	∧ ∨
12 – 4°	1700	6	45.1	– 4	37.9	9.3	∧ ∨
13 – 4°	1706	6	45.6	– 4	36.7	9.2	∧ ∨
14 – 4°	1707	6	45.9	– 4	34.0	8.8	∧ ∨
15 – 4°	1708	6	46.0	– 4	24.2	9.0	∧ ∨
16 – 4°	1710	6	46.1	– 4	7.7	9.5	∧ ∨
17 – 3°	1637	6	46.6	– 3	59.7	9.5	∧ ∨
18 – 4°	1713	6	46.8	– 4	12.8	8.8	–4° 1714 superposed. 1713 magn. 8.8
19 – 4°	1716	6	46.9	– 4	10.4	9.3	∧ ∨
20 – 4°	1718	6	47.1	– 4	5.7	9.0	∧ ∨
21 – 3°	1641	6	47.3	– 3	55.4	8.2	∧ ∨
22 – 3°	1638	6	47.0	– 3	22.9	9.0	∧ ∨
23 – 3°	1642	6	47.7	– 3	9.5	9.0	∧ ∨
24 – 3°	1643	6	47.8	– 3	31.4	9.1	∧ ∨
25 – 3°	1648	6	48.6	– 3	52.0	9.2	∧ ∨
26 – 3°	1651	6	49.1	– 3	07.4	8.7	∧ ∨
27 – 2°	1835	6	48.8	– 2	59.6	8.6	∧ ∨

cards made out

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Wednesday, Feb. 19, 1913.
B 20895 slant disp.

No.	Int.	Class	Remark
28	5	A0	
29	4	F0	
30	7	F0	
31	3	F5	
32	4	B9	
33	6	A0	
34	5	B3	
35	3	A2	
36	2	A0	
37	2	F2	
38	1	G5	
39	5	F5	
40	4	A3	
41	5	F5	
42	3	A2	
43	1	G5	
44	10	A3	
45	5	Comp.	B2. = K. F1. = A3.
46	7	B9	Another star superposed?
47	3	A2	
48	1	G0	
49	9	B9	
50	4	B8	
51	3	B8	
52	1	A	
53	4	B9	
54	2	B9	

28 − 3°	1650	6	48.8	− 3	1.1	8.6	^ v
29 − 3°	1655	6	49.5	− 3	28.0	8.5	^ J
30 − 3°	1657	6	49.6	− 3	30.5	7.6	^ v
31 − 3°	1653	6	49.4	− 3	36.2	8.5	^ v
32 − 3°	1658	6	49.7	− 3	17.5	9.2	^ v
33 − 3°	1664	6	50.3	− 3	30.6	8.7	^ J
34 − 4°	1745	6	50.1	− 4	0.8	8.5	^ v
35 − 4°	1744	6	50.1	− 4	11.1	9.0	^ J
36 − 4°	1740	6	49.2	− 4	11.7	9.1	^ v
37 − 4°	1731	6	48.6	− 4	51.8	8.7	^ J
38 − 5°	1872	6	48.6	− 5	2.3	9.2	^ v
39 − 4°	1721	6	47.4	− 4	31.8	9.2	^ v
40 − 4°	1719	6	47.1	− 4	43.9	9.0	^ J
41 − 4°	1715	6	46.8	− 4	42.8	8.9	^ v
42 − 5°	1860	6	46.6	− 5	0.3	9.1	^ J
43 − 4°	1723	6	47.5	− 4	11.1	9.1	^ J
44 − 5°	1863	6	47.0	− 5	40.3	9.4	^ v
45 − 5°	1864	6	47.1	− 5	50.5	8.0	^ J
46 − 5°	1856	6	46.1	− 5	47.2	8.3	^ J − 5 1855 superposed. magn. 9.2
47 − 5°	1850	6	45.5	− 5	33.9	9.0	^ J
48 − 5°	1847	6	46.4	− 5	42.2	9.1	^ J
49 − 6°	1787	6	45.1	− 6	17.2	8.1	^ N
50 − 5°	1846	6	45.3	− 5	50.6	9.1	^ J
51 − 5°	1862	6	47.0	− 5	24.7	9.5	^ v
52 − 5°	1859	6	46.6	− 5	24.4	9.5	^ v
53 − 5°	1857	6	46.2	− 5	29.8	9.1	^ J
54 − 5°	1842	6	45.2	− 5	23.7	9.2	^ J

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Wednesday, Feb. 19, 1913.
Bzorgs short exp.

No.	Int.	Class	Remark
55	9	B8	
56	3	J2	
57	3	B9	
58	2	B9	
59	5	V9	
60	2	A0	
June 1 12.20 Feb. 20, 1913 June 1 10.01 61	2	B9	
62	9	B8	
63	4	A0	
64	2	J2	
65	2	B9	
66	10	B35	
67	2	J2	
68	3	B3	Lines unidentified.
69	1	A	
70	4	F5	
71	7	K5	
72	10	K5	
73	6	A0	
74	8	B8	
75	2	A2	
76	7	F0	
77	5	F2	
78	10	B	
79	10+	F8	
80	4	A0	
81	1	K5	

55	−5°	1839	6	45.1	−5	28.5	7.2 ∧ ∨
56	−5°	1836	6	44.7	−5	18.8	8.5 ∧ ⌋
57	−5°	1835	6	44.6	−5	21.9	9.1 ∧ ∨
58	−5°	1837	6	44.7	−5	27.3	9.1 ∧ ⌋
59	−5°	1833	6	44.3	−5	58.5	9.0 ∧ x
60	−5°	1829	6	44.0	−5	51.9	9.1 ∧ ⌋
61	−6°	1769	6	43.8	−6	1.0	9.4 ∧ ∨
62	−6°	1764	6	43.3	−6	1.5	8.2 ∧ ∨
63	−5°	1821	6	43.1	−5	59.4	8.9 ∧ ⌋
64	−5°	1820	6	43.0	−5	38.8	8.5 ∧ ∨
65	−5°	1824	6	43.4	−5	24.7	9.4 ∧ x
66	−5°	1815	6	42.8	−5	20.9	7.5 ∧ ∨
67	−4°	1683	6	43.1	−4	58.9	9.0 ∧ ∨
68	−5°	1827	6	43.8	−5	9.8	9.1 ∧ ⌋
69	−4°	1681	6	42.9	−4	23.8	9.5 ∧ ∨
70	−3°	1600	6	41.3	−3	20.3	8.5 ∧ ⌋
71	−5°	1927	6	55.0	−5	49.0	7.3 ∧ ∨
72	−5°	1926	6	54.8	−5	31.2	5.0 ∧ ⌋
73	−5°	1921	6	54.3	−5	57.2	8.3 ∧ ∨
74	−6°	1887	6	54.5	−6	6.6	8.2 ∧ ∨
75	−6°	1878	6	54.0	−6	1.2	9.2 ∧ ∨
76	−6°	1872	6	53.6	−6	14.5	8.2 ∧ ⌋
77	−5°	1907	6	53.0	−5	59.5	8.7 ∧ ∨
78	−5°	1912	6	53.2	−5	37.3	7.3 ∧ ∨
79	−5°	1910	6	53.2	−5	10.0	6.5 ∧ ∨
80	−5°	1908	6	53.0	−5	11.0	9.3 ∧ ⌒
81	−5°	1913	6	53.4	−5	17.3	9.0 ∧ ∨

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Thursday, Feb. 20, 1913.

T3 20895 short disp.

No.	Int.	Class	Remarks
82	2	T3	
83	3	T3	
84	7	A0	
85	4	K3	
86	4	A2	
87	3	A0	
88	9	A0	
89	2	A	
90	4	A0	
91	4	F2	
92	1	K5	
93	3	T3	
94	5	F0	
95	4	K5	
96	8	A0	
97	2	T3	
98	4	A5	
99	5	F0	
100	6	T3	
101	8	T3	
102	5	K0	
103	8	A0	
104	7	T3	
105	4	A0	
106	3	A0	
107	1	K5	
108	3	A2	

82	-5°	1906	6	52.9	-5	17.9	9.4 ∧ ✓
83	-5°	1901	6	52.4	-5	23.2	9.0 ∧ ✓
84	-5°	1900	6	52.2	-5	13.0	8.2 ∧ ✓
85	-4°	1772	6	53.1	-4	24.7	8.8 ∧ ✓
86	-4°	1769	6	52.7	-4	25.9	9.0 ∧ ✓
87	-4°	1767	6	52.5	-4	1.2	9.0 ∧ ✓
88	-3°	1672	6	51.7	-3	49.2	8.0 ∧ ✓
89	-3°	1673	6	51.8	-3	17.6	9.4 ∧ ✓
90	-4°	1761	6	51.9	-4	11.8	9.0 ∧ ✓
91	-4°	1766	6	52.4	-4	36.7	9.0 ∧ ✓
92	-4°	1763	6	52.1	-4	25.4	9.0 ∧ ✓
93	-4°	1760	6	51.7	-4	29.0	9.3 ∧ ✓
94	-4°	1759	6	51.6	-4	21.7	9.0 ∧ ✓
95	-4°	1756	6	51.4	-4	20.4	8.2 ∧ ✓
96	-4°	1752	6	51.2	-4	20.5	8.0 ∧ ✓
97	-4°	1751	6	51.1	-4	27.7	9.0 ∧ ✓
98	-4°	1749	6	50.9	-4	43.7	9.1 ∧ ✓
99	-4°	1750	6	51.0	-4	52.7	8.8 ∧ ✓
100	-5°	1892	6	50.5	-5	15.8	9.0 ∧ ✓
101	-5°	1888	6	50.3	-5	13.9	8.7 ∧ ✓
102	-5°	1882	6	49.8	-5	9.8	8.5 ∧ ✓
103	-5°	1881	6	49.7	-5	17.4	8.5 ∧ ✓
104	-5°	1878	6	49.6	-5	26.5	9.0 ∧ ✓
105	-5°	1873	6	48.9	-5	35.7	9.0 ∧ ✓
106	-5°	1871	6	48.3	-5	44.7	9.2 ∧ ✓
107	-5°	1868	6	47.8	-5	39.6	8.7 ∧ ✓
108	-6°	1820	6	48.2	-6	5.8	9.3 ∧ ✓

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Thursday, Feb. 20, 1913.

B 20895 short exp.

No.	Int.	Class	Remark
109	4	B8	
110	1	J5	
111	2	G5	Partly superposed on 112.
112	2	F5	
113	9	B8	
114	2	J5	
115	3	G0	
116	2	J0	
117	2	F5	
118	2	A0	
119	1	J0	
120	8	B8	
121	6	J0	
122	3	A2	
123	2	A2	
124	3	F5	
125	4	B9	
126	3	G5	
127	5	J2	
128	3	A3	
129	7	A0	
130	6	B8	
131	4	A3	
132	4	B8	
133	2	B9	Partly superposed on 132.
134	2	A2	
135	2	B9	

109	−6°	1814	6	47.7	−6	11.9	9.0	^ ✓
110	−6°	1807	6	47.2	−6	2.0	8.8	^ ✓
111	−6°	1805	6	47.1	−6	7.5	9.0	^ ✓
112	−6°	1808	6	47.1	−6	12.0 ~~7.5~~	9.0	^ ✓
113	−6°	1808	6	47.2	−6	12.7	8.0	^ ✓
114	−6°	1817	6	48.0	−6	37.3	8.5	^ ✓
115	−6°	1816	6	48.0	−6	37.9	9.1	^ ✓
116	−6°	1812	6	47.6	−6	26.6	9.0	^ ✓
117	−6°	1813	6	47.7	−6	32.1	9.4	^ ✓
118	−6°	1809	6	47.3	−6	26.2	9.1	^ ✓
119	−6°	1802	6	47.0	−6	36.9	9.2	^ ✓
120	−6°	1803	6	47.0	−6	44.6	8.7	^ ✓
121	−6°	1795	6	46.2	−6	34.6	8.5	^ ✓
122	−6°	1792	6	45.7	−6	42.2	9.1	^ ✓
123	−6°	1796	6	46.2	−6	47.1	9.0	^ ✓
124	−6°	1799	6	46.6	−6	47.7	9.0	^ ✓
125	−6°	1800	6	46.7	−6	53.7	9.1	^ ✓
126	−6°	1804	6	47.1	−6	55.8	8.8	^ ✓
127	−7°	1624	6	47.3	−7	13.3	8.3	^ ✓
128	−7°	1625	6	47.5	−7	1.8	9.2	^ ✓
129	−6°	1821	6	48.2	−6	53.8	8.8	^ ✓
130	−6°	1821	6	49.1	−6	56.0	8.8	^ ✓
131	−6°	1836	6	49.6	−6	9.5	9.0	^ ✓
132	−6°	1838	6	49.9	−6	0.3	9.1	^ ✓
133	−6°	1840	6	49.9	−6	2.0	9.2	^ ✓
134	−6°	1841	6	50.0	−6	15.8	9.6	^ ✓
135	−6°	1843	6	50.2	−6	20.2	9.3	^ ✓

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Thursday, Feb. 20, 1913.

B 20895 shut disp.

No.	Int.	Class	Remark
136	2	Fo	
137	2	Fo	Partly superposed on 136.
138	6	Ao	
139	3	Go	
140	3	Go	
141	4	Ao	
142	2	Fo	
143	2	Ao	
144	1	Go	Spectrum hazy.
145	1	Fo	
146	4	Ao	
147	3	Fo	
148	3	A2	
149	2	Fo	
150	2	A2	
151	7	K0	
152	1	Fo	
153	2	Go	
154	9	Go	
155	3	Ao	Lines narrow.
156	3	Ao	" broad.
157	5	K3	
158	5	Fo	
159	2	A3	
160	1	Fo	
161	2	K3	
162	2	Go	Nebulosity of two.

136 - 5°	1886	6	50.2	- 5	51.8	9.0	∧ ✓
137 - 5°	1885	6	~~43.6~~ 50.2	- 5	54.0	9.1	∧ ✓
138 - 6°	1848	6	50.8	- 6	16.5	8.8	∧ ✓
139 - 6°	1850	6	51.0	- 6	22.4	9.3	∧ ✓
140 - 6°	1855	6	51.4	- 6	19.0	8.7	∧ ✓
141 - 6°	1856	6	51.5	- 6	24.8	9.0	∧ ✓
142 - 6°	1861	6	51.7	- 6	10.2	9.0	∧ ✓
143 - 5°	1894	6	51.3	- 5	36.7	9.4	∧ ✓
144 - 5°	1902	6	52.4	- 5	52.1	9.2	∧ ✓
145 - 4°	1746	6	50.3	- 4	53.7	9.3	∧ ✓
146 - 6°	1869	6	53.2	- 6	31.3	8.8	∧ ✓
147 - 6°	1870	6	53.2	- 6	57.5	8.9	∧ ✓
148 - 6°	1867	6	53.0	- 6	57.7	9.0	∧ ✓
149 - 7°	1667	6	52.3	- 7	4.5	8.7	∧ ✓
150 - 7°	1673	6	52.4	- 7	7.7	9.1	∧ ✓
151 - 7°	1668	6	52.3	- 7	15.6	8.2	∧ ✓
152 - 6°	1863	6	52.1	- 6	54.6	9.1	∧ ✓
153 - 6°	1862	6	52.0	- 6	55.2	9.0	∧ ✓
154 - 6°	1859	6	51.6	- 6	59.2	7.5	∧ ✓
155 - 6°	1854	6	51.2	- 6	49.9	9.1	∧ ✓
156 - 7°	1653	6	50.9	- 7	1.0	9.2	∧ ✓
157 - 7°	1644	6	50.4	- 7	5.7	8.7	∧ ✓
158 - 7°	1657	6	51.3	- 7	18.6	8.7	∧ ✓
159 - 7°	1660	6	51.6	- 7	19.5	9.4	∧ ✓
160 - 7°	1661	6	51.6	- 7	48.1	9.0	∧ ✓
161 - 7°	1656	6	51.3	- 7	45.0	9.2	∧ ✓
162 - 7°	1649	6	50.6	- 7	36.6	8.8	∧ ✓

cards made out

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Thursday Feb 20, 1913.
B 30 r 95 short disp.

No.	Dist.	Class	Remark
163	10	Comp	Br. = F5 Ft. = A2
164	7	F38	
165	3	A2	
166	9	A3	
167	3	A0	
168	7	F38	
169	7	F39	
170	3	F2	
171	4	F3g	
172	4	A3	
173	8	F38	
174	3	A	A faint star of class A superposed on fol. side.
175	3	A0	
176	10	F39	
177	2	F0	
178	2	F3g	
179	2	F2	
180	1	G5	
181	1	F2	
182	5	F38	
183	1	G5	
184	1	G5	
185	2	G5	
186	1	F5	
187	1	G5	
188	4	F5	
189	2	F0	

163	−7°	1642	6	50.0	−7	59.8	6.4
164	−7°	1640	6	49.7	−7	59.7	7.6
165	−7°	1636	6	49.5	−7	59.7	9.0
166	−8°	1632	6	49.6	−8	8.7	7.0
167	−8°	1627	6	49.1	−8	10.7	9.1
168	−8°	1625	6	48.6	−8	14.1	8.1
169	−8°	1617	6	48.2	−8	18.7	8.2
170	−8°	1620	6	48.4	−8	18.0	8.5
171	−7°	1628	6	48.0	−7	39.4	8.6
172	−7°	1620	6	46.9	−7	55.0	8.8
173	−7°	1614	6	46.1	−7	35.5	7.8
174	−7°	1608	6	44.9	−7	6.7	9.1
175	−6°	1786	6	45.1	−6	57.2	9.1
176	−6°	1775	6	44.5	−6	47.8	7.3
177	−6°	1774	6	44.4	−6	23.5	8.7
178	−6°	1770	6	43.8	−6	23.0	9.3
179	−6°	1763	6	43.3	−6	19.4	8.8
180	−6°	1765	6	43.5	−6	33.1	9.3
181	−6°	1760	6	43.0	−6	38.0	9.0
182	−6°	1755	6	42.5	−6	36.1	8.7
183	−6°	1752	6	42.2	−6	22.2	9.0
184	−6°	1759	6	42.7	−6	14.3	9.0
185	−6°	1758	6	42.6	−6	6.9	9.0
186	−6°	1753	6	42.3	−6	1.1	9.0
187	−5°	1809	6	41.6	−5	49.0	9.1
188	−5°	1800	6	40.1	−5	27.6	9.0
189	−5°	1803	6	40.2	−5	50.3	8.8

−7° 1604 Magn. 9.3

cards made out

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Thursday, Feb. 20, 1913.

B 20895 shot out.

Nr.	Int.	Class	Remark
190	7	Ao	
191	7	B9	
192	8	Ao	
193	3	G5	
194	10	Ao	
195	1	B9	
196	7	Ao	
197	4	Ao	
198	3	B9	
199	3	K0	
200	2	A2	
201	6	A3	
202	7	B8	
203	1	G5	
204	3	Ao	
205	2	Ao	
206	2	G5	Partly superposed on 207.
207	4	K5	
208	2	A2	
209	6	Ao	
210	4	Ao	
211	2	F2	
212	2	A	
213	5	Ao	
214	4	A3	
215	4	Ao	
216	3	F8	

190	-5°	1797	6	39.7	-5	59.7	8.0	^ v
191	-6°	1734	6	39.6	-6	24.8	8.5	^ v
192	-6°	1728	6	38.9	-6	45.4	8.2	^ v
193	-6°	1724	6	38.4	-6	59.1	9.0	^ v
194	-7°	1551	6	38.9	-7	11.4	7.3	^ v
195	-6°	1712	6	37.6	-6	52.5	9.4	^ v
196	-6°	1705	6	36.8	-6	46.4	8.7	^ v
197	-6°	1709	6	37.2	-6	59.5	9.0	^ v
198	-7°	1539	6	37.0	-7	16.2	9.2	^ v
199	-7°	1540	6	37.0	-7	28.7	8.8	^ v
200	-6°	1701	6	36.5	-6	51.6	9.3	^ v
201	-6°	1697	6	36.0	-6	38.0	8.7	^ v
202	-5°	1777	6	37.9	-5	47.7	8.0	^ v
203	-5°	1786	6	38.8	-5	39.2	9.0	^ v
204	-5°	1792	6	39.1	-5	19.5	9.0	^ v
205	-5°	1788	6	39.0	-5	18.9	9.5	^ v
206	~~-5°~~ -5.0	~~1650~~ 1799.0	6	39.1	~~-5~~ -5.0	~~55.4~~ 0.8	9.7	^ v
207	-5°	1791	6	39.1	-5	5.3	8.2	^ v
208	-7°	1599	6	44.4	-7	2.2	9.1	^ v
209	-6°	1771	6	43.9	-6	56.2	8.7	^ v
210	-7°	1591	6	43.6	-7	8.8	9.1	^ v
211	-7°	1587	6	43.4	-7	2.9	9.3	^ v
212	-7°	1588	6	43.5	-7	13.8	9.6	^ v merges 9.7 -7° 1589 superposed
213	-7°	1584	6	43.1	-7	38.0	8.8	^ v
214	-7°	1576	6	42.3	-7	33.7	8.7	^ v
215	-7°	1575	6	42.3	-7	52.3	9.0	^ v
216	-7°	1570	6	41.5	-7	38.5	9.0	^ v

cards made out

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Thursday, Feb. 20, 1913.

B208.95 shot disp.

No.	Frat.	Class	Remark
217	10	B8	
218	2	K2	
219	4	Z2	
220	2	K8	
221	4	K2	
222	7	K2	
223	1	A	
224	1	K	Partly superposed on 225.
225	1	K	
226	1	A2	
227	2	A2	
228	4	A0	
229	3	A2	
230	8	B8	
231	5	B9	
232	1	G0	
233	10+	K5	
234	2	A5	
235	10	B9	
236	3	G5	
237	6	K0	
238	1	A	
239	4	A2	
240	2	K0	
241	9	K5	
242	8	B8	
243	3	K2	

217	−7°	1567	6	41.4	−7	35.7	7.0	∧ ✓
218	−7°	1571	6	41.6	−7	16.0	8.8	∧ ✓
219	−7°	1569	6	41.5	−7	0.4	8.6	∧ ✓
220	−7°	1572	6	41.8	−7	7.5 ~~16.0~~	8.8	∧ ✓
221	−6°	1756	6	42.5	−6	58.9	8.5	∧ ✓
222	−7°	1578	6	42.6	−7	15.1	7.2	∧ ✓
223	−7°	1579	6	42.7	−7	24.4	9.5	∧ ✓
224	−6°	1740	6	41.0	−6	14.5	9.0	∧ ✓
225	−6°	1741	6	41.0	−6	18.7	9.1	∧ ✓
226	−7°	1562	6	40.2	−7	19.6	9.4	∧ ✓
227	−7°	1559	6	39.7	−7	16.5	9.4	∧ ✓
228	−7°	1557	6	~~39.6~~ 39.6 5	−7	48.8	9.0	∧ ✓
229	−7°	1564	6	40.5	−7	56.2	9.1	∧ ✓
230	−8°	1551	6	40.0	−8	16.0	8.5	∧ ✓
231	−8°	1549	6	40.7 ~~39.6~~	−8	23.0 ~~46.1~~	8.7 ~~9.5~~	∧ ✓
232	−8°	1556	6	40.4	−8	76.1	9.2	∧ ✓
233	−8°	1558	6	40.7	−8	50.2	5.1	∧ ✓
234	−8°	1553	6	40.2	−8	51.5	9.0	∧ ✓
235	−8°	1549	6	39.6	−8	46.1	7.5	∧ ✓
236	−9°	1645	6	39.9	−9	0.5	8.5	∧ ✓
237	−8°	1604	6	47.1	−8	36.2	8.3	∧ ✓
238	−8°	1605	6	47.3	−8	19.9	9.5	∧ ✓
239	−9°	1712	6	47.0	−9	4.9	9.1	∧ ✓
240	−9°	1717	6	47.2	−9	9.2	8.8	∧ ✓
241	−9°	1711	6	46.9	−9	20.0	7.2	∧ ✓
242	−9°	1705	6	46.4	−9	30.9	8.0	∧ ✓
243	−9°	1700	6	46.1	−9	11.8	8.8	∧ ✓

Cards made out

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Thursday. Oct. 20, 1913.

Ⅎ 38 0895 shot drop.

Nr.	Int.	Class	Remark
244	2	Fo	
245	3	Ao	
246	5	Bg	
247	2	F2	
248	4	Bg	
249	4	As	
250	7	K5	
251	7	Ao	
252	1	M0	
253	3	As	
254	3	Ao	
255	10+	Ao	
256	1	F2	
257	1	M0	The preceding of two.
258	1	K5	
259	1	A3	
260	4	A	Another star of class A superposed.
261	4	F2	
262	3.	A2	
263	3	A	Party superposed on 264.
264	6	As	
265	4	A	Party superposed on 266.
266	5	Ao	
267	7	Ao	
June; 10.50 268	4	Ao	
" 1.30 269	3	Ao	
270	6	K0	

244	−8°	1694	6	45.8	−8	55.3	9.2	∧ ∫
245	−8°	1593	6	45.6	−8	54.1	9.3	∧ ∫
246	−9°	1686	6	44.8	−9	10.7	8.8	∧ ∫
247	−9°	1694	6	45.2	−9	22.1	8.5	∧ ∫
248	−9°	1685	6	44.7	−9	22.5	9.1	∧ ∫
249	−9°	1682	6	44.5	−9	24.3	9.1	∧ ∫
250	−9°	1680	6	44.3	−9	54.8	7.0	∧ ∫
251	−9°	1679	6	44.1	−9	57.9	8.5	∧ ∫
252	−8°	1586	6	44.6	−8	43.2	9.2	∧ ∫
253	−8°	1577	6	43.4	−8	29.9	9.0	∧ ∫
254	−8°	1578	6	43.5	−8	3.6	9.3	∧ ∫
255	−7°	1592	6	43.7	−7	52.7	6.8	∧ ∫
256	−7°	1594	6	44.0	−7	46.2	9.0	∧ ∫
257	−8°	1585	6	44.6	−8	5.8	9.0	∧ ∫
258	−8°	1587	6	44.6	−8	17.8	9.4	∧ ∫
259	−8°	1591	6	45.2	−8	26.7	9.4	∧ ∫
260	−8°	1590	6	42.5	−8	38.8	9.3	∧ ∫
261	−8°	1562	6	41.6	−8	23.8	9.0	∧ ∫
262	−7°	1568	6	41.4	−7	57.3	8.5	∧ ∫
263	−8°	1566	6	41.8	−8	2.5	9.1	∧ ∫
264	−8°	1587	6	41.9	−8	9.2	8.5	∧ ∫
265	−8°	1572	6	42.6	−8	57.2	8.7	∧ ∫
266	−9°	1666	6	42.6	−9	3.4	9.0	∧ ∫
267	−8°	1665	6	41.8	−8	58.5	8.6	∧ ∫
268	−9°	1654	6	41.3	−9	3.4	9.0	∧ ∫
269	−9°	1668	6	42.7	−9	50.0	9.0	∧ ∫
270	−9°	1659	6	42.1	−9	38.7	8.0	∧ ∫

mgn. 9.4 1569 superposed

−8° 1569 superposed

According to plate −8 1570 (the irregular + northern star) precedes −8° 1569 Schiel. error in R.A. reckoning → on star chart? Chart plate ingress (B 38 4595 & 4597) agree with 20595

Cards made out

Thursday, Feb. 20, 1913.
B 20895 short disp.

No.	Frt.	Class	Remark
271	3	F8	
272	2	Q2	
273	1	K	
274	2	G5	
275	6	A0	
276	1	K5	
277	3	Ma	
278	4	A0	
279	4	K2	
280	4	F8	
281	2	K5	
282	4	K5	
283	5	K0	
284	8	G2	
285	2	K0	
286	6	B8	
287	3	K5	
288	3	Q2	
289	1	K5	Partly superposed on 288.
290	8	B9	
291	1	A	Partly superposed on 292.
292	4	F0	
293	4	A0	
294	5	F8	
295	3	G5	Another star partly superposed
296	8	B8	
297	7	B8	

271	-9°	1667	6	42.7	-9	23.7	9.0	∧ ∨
272	-9°	1660	6	42.1	-9	25.4	9.1	∧ ∨
273	-9°	1656	6	41.4	-9	35.1	9.1	∧ ∨
274	-9°	1653	6	41.2	-9	38.2	8.7	∧ ∨
275	-9°	1652	6	41.0	-9	30.9	8.6	∧ ∨
276	-9°	1655	6	41.4	-9	50.3	8.7	∧ ∨
277	-9°	1649	6	40.5	-9	48.1	8.5	∧ ∨
278	-7°	1719	6	57.5	-7	3.9	8.8	∧ ∨
279	-6°	1911	6	56.5	-6	42.4	8.2	∧ ∨
280	-6°	1908	6	56.5	-6	28.4	8.8	∧ ∨
281	-6°	1904	6	56.1	-6	40.9	8.7	∧ ∨
282	-6°	1902	6	55.7	-6	35.0	9.0	∧ ∨
283	-6°	1900	6	55.6	-6	43.1	8.7	∧ ∨
284	-6°	1903	6	55.7	-6	49.1	8.5	∧ ∨
285	-6°	1891	6	54.9	-6	44.6	9.0	∧ ∨
286	-6°	1889	6	54.8	-6	50.5	8.7	∧ ∨
287	-6°	1885	6	54.4	-6	43.6	8.7	∧ ∨
288	-6°	1874	6	53.8	-6	43.7	9.0	∧ ∨
289	-6°	1875	6	53.8	-6	49.4	9.0	∧ ∨
290	-7°	1687	6	54.3	-7	31.2	8.5	∧ ∨
291	-7°	1705	6	56.1	-7	15.7	9.0	∧ ∨
292	-7°	1706	6	56.1	-7	22.0	8.9	∧ ∨
293	-7°	1701	6	55.7	-7	34.1	9.0	∧ ∨
294	-7°	1695	6	55.4	-7	39.5	8.5	∧ ∨
295	-8°	1681	6	55.0	-8	6.3	9.2	∧ ∨
296	-8°	1672	6	54.3	-8	0.3	8.1	∧ ∨
297	-8°	1670	6	54.2	-8	5.2	8.7	∧ ∨

8° 1680 6 55.0 - 8.5 8 images 297 superposed

cards made out

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Thursday Feb. 20, 1913.
B2085 short disp.

No.	Int.	Class	Remark
298	3	A0	
299	3	A3	
300	10+	B8	Burned out.
301	3	G5	
302	6	B8	The preceding of two
303	5	F0	
304	2	B9	
305	7	F5	
306	6	F5	
307	3	B8	
308	7	A2	
309	1	A	
310	1	K2	
311	6	M0	
312	2	B9	
313	4	Ma	Ay br = 10. Ay δ = 10.
314	6	B8	
315	6	F2	
316	8	B3	
317	5	A2	
318	4	B8	
319	1	A	
320	6	F2	
321	8	B8	
322	4	G0	
323	6	B5	
324	4	K5	

298	−8°	1669	6	54.1	−8	17.4	9.1	∧✓
299	−8°	1668	6	53.9	−8	28.2	9.3	∧✓
300	−8°	1662	6	53.4	−8	12.1	6.1	∧✓
301	−8°	1660	6	53.2	−8	28.8	9.0	∧✓
302	−8°	1664	6	53.5	−8	40.0	8.8	∧✓
303	−8°	1659	6	53.1	−8	36.4	9.0	∧✓
304	"Was us out		6	52.7	−8	32		✓
305	−8°	1658	6	52.7	−8	11.4	8.3	∧✓
306	−8°	1657	6	52.6	−8	1.2	8.6	∧✓
307	−7°	1665	6	52.1	−7	59.0	9.1	∧✓
308	−8°	1651	6	51.5	−8	6.3	8.8	∧✓
309	−8°	1654	6	52.0	−8	13.1	9.4	∧✓
310	−8°	1649	6	51.2	−8	39.3	9.0	∧✓
311	−8°	1650	6	51.2	−8	50.0	7.7	∧✓
312	−8°	1647	6	50.8	−8	42.0	9.3	∧✓
313	−8°	1641	6	50.3	−8	52.7	8.0	∧✓
314	−8°	1635	6	49.8	−8	49.9	8.8	∧✓
315	−8°	1633	6	49.8	−8	36.6	8.6	∧✓
316	−8°	1639	6	50.2	−8	21.3	8.3	∧✓
317	−8°	1644	6	50.4	−8	14.5	9.0	∧✓
318	−8°	1629	6	49.2	−8	24.8	8.8	∧✓
319	−8°	1631	6	49.4	−8	33.3	9.6	∧✓
320	−9°	1732	6	48.7	−9	0.3	8.5	∧✓
321	−9°	1729	6	48.3	−9	3.8	7.8	∧✓
322	−9°	1733	6	48.7	−9	18.2	8.2	∧✓
323	−9°	1730	6	48.5	−9	27.7	8.5	∧✓
324	−9°	1721	6	47.4	−9	26.0	7.5	∧✓

Cards made out

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Thursday Sept. 20, 1913.
B320895 about drift.

No	Int.	Class	Remark
325	2	A0	
326	1	A2	
327	1	K0	
328	2	F0	
329	4	A2	Both class have same spectrum, as seen by trails on edges.
330	2	K5	
331	7	A0	
332	8	A2	
333	3	A5	
334	4	B8	
335	8	F5	
336	5	K0	
337	2	A0	
338	3	K3	
339	2	A0	
340	3	A2	
341	3	F8	
342	7	K0	
343	9	K5	
344	7	A0	
345	6	A2	
346	9	K0	
347	10	K3	H8 bright.
348	4	A0	
Time 1.45	349	5	A2
	350		

Cmk. 133, 15K

325	-9°	1725	6	47.8 -9	13.7	9.2 ∧ ∨
326	-8°	1612	6	47.7 -8	49.7	9.3 ∧ ∨
327	-8°	1610	6	47.5 -8	48.3	8.8 ∧ ∨
328	-9°	1728	6	47.8 -9	43.7	9.1 ∧ ∨
329	-9°	1714	6	47.1 -9	51.4	9.1 ∧ ∨
330	-9°	1710	6	46.8 -9	49.9	8.9 ∧ ∨
331	-10°	1758	6	48.7 -10	2.6	8.3 ∧ ∨
332	-10°	1756	6	48.5 -10	0.2	7.8 ∧ ∨
333	-9°	1728	6	48.3 -9	58.1	8.8 ∧ ∨
334	-9°	1765	6	51.9 -9	8.7	8.9 ∧ ∨
335	-8°	1652	6	51.6 -8	58.0	9.2 ∧ ∨
336	-9°	1760	6	51.5 -9	6.5	9.4 ∧ ∨
337	-9°	1749	6	50.6 -9	9.4	9.5 ∧ ∨
338	-9°	1747	6	50.5 -9	16.8	9.1 ∧ ∨
339	-9°	1735	6	49.4 -9	44.0	9.0 ∧ ∨
340	-9°	1755	6	51.2 -9	46.5	9.0 ∧ ∨
341	-9°	1745	6	50.5 -9	54.2	8.6 ∧ ∨
342	-10°	1773	6	50.3 -10	5.4	8.2 ∧ ∨
343	-10°	1787	6	51.3 -10	7.8	6.5 ∧ ∨
344	-9°	1761	6	51.5 -9	59.8	8.2 ∧ ∨
345	-10°	1789	6	51.6 -10	27.4	8.7 ∧ ∨
346	-10°	1786	6	51.1 -10	35.4	7.3 ∧ ∨
347	-10°	1774	6	50.3 -10	38.4	7.2 ∧ ∨
348	-10°	1761	6	49.1 -10	25.4	9.1 ∧ ∨
349	-10°	1757	6	48.6 -10	35.9	8.8 ∧ ∨

4 identified by AMC April 4, 1913.
Checked April 24, 1913 LDW
cards made out by M. C. W.
cards checked by AMC

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Friday, Feb. 21, 1913.

Time: 10.06 — B20803 slant corp.

No	Ext.	Class	Remark
1	2	A0	
2	2	K0	
3	2	F5	
4	3	A0	
5	2	K0	
6	7	B6	
7	2	B9	
8	2	F5	
9	2	K3	
10	3	A2	
11	1	G0	
12	2	F8	
13	1	A2	
14	2	K5	
15	3	A3	
16	4	F2	
17	2	A2	
10.11 18	4	A0	
10.48 19	10	B8	
20	4	Ma	
21	8	A0	
22	7	A5	
23	3	A0	
24	2	A5	
25	3	B9	
26	2	K5	
27	3	A2	

1	−4°	1643	6	37.4	−4	41.5	g.4	1 ✓
2	−4°	1635	6	36.3	−4	16.9	g.1	1 ✓
3	−5°	1780	6	38.3	−5	10.5	g.3	1 ✓
4	−5°	1775	6	37.7	−5	19.4	g.4	^ ✓
5	−5°	1786	6	38.8	−5	39.21	g.0	1 ✓
6	−5°	1777	6	37.9	−5	47.7	8.0	1 ✓
7	−6°	1713	6	38.0	−6	6.5	g.4	^ ✓
8	−6°	1711	6	37.5	−6	8.1	g.1	1 ✓
9	−5°	1771	6	37.3	−5	58.0	g.0	^ ✓
10	−5°	1767	6	36.8	−5	54.0	g.3	^ ✓
11	−5°	1772	6	37.3	−5	44.2	g.2	^ ✓
12	−5°	1770	6	37.2	−5	33.3	g.2	^ ✓
13	Approx pos (1856)		6	37.3	−5	26		^ ✓
14	−5°	1763	6	36.3	−5	34.0	g.0	1 ✓
15	−5°	1762	6	36.2	−5	14.6	g.2	1 ✓
16	−5°	1759	6	35.8	−5	42.7	g.0	1 ✓
17	−6°	1695	6	35.9	−6	0.3	9.8	^ ✓
18	−5°	1755	6	35.4	−5	55.8	g.2	1 ✓
19	−5°	1753	6	35.0	−5	58.5	7.0	^ ✓
20	−6°	1682	6	34.7	−6	1.5	8.5	1 ✓
21	−6°	1679	6	34.4	−6	0.6	8.5	1 ✓
22	−6°	1684	6	35.1	−6	12.4	8.7	1 ✓
23	−6°	1691	6	35.7	−6	14.2	g.1	1 ✓
24	−6°	1687	6	35.4	−6	21.3	9.8	1 ✓
25	−6°	1681	6	34.6	−6	32.7	g.5	^ ✓
26	−6°	1675	6	34.2	−6	31.0	g.0	1 ✓
27	−6°	1678	6	34.0	−6	21.6	g.4	^ ✓

cards made out

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Friday Feb. 21, 1913.

B 20803 first disp.

No.	Int.	Class	Remark
28	1	A2	
29	2	B9	
30	3	b5	
31	3	F0	
32	10	B8	
33	4	B9	
34	7	A0	
35	8	F2	
36	3	B8	
37	7	B9	
38	2	B9	
39	9	B9	Hγ. S. ε double.
40	2	A3	
41	3	A0	
42	3	b5	
43	3	F2	
44	1	A	
45	4	B8	
46	2	K5	
47	3	B8	
48	5	Mα	
49	7	A3	
50	8	B8	
51	7	B5	
52	4	F0	
53	3	F2	
54	6	B9	

28	-6°	1667	6	33.7	-6	35.3	9.5 ^ ~
29	-6°	1668	6	33.9	-6	47.4	9.4 ^ ~
30	-6°	1669	6	34.0	-6	58.0	9.2 ^ ~
31	-6°	1677	6	34.2	-6	55.6	9.4 ^ ~
32	-7°	1526	6	34.4	-7	2.3	7.2 ^ ~
33	-7°	1519	6	33.8	-7	4.1	8.7 ^ ~
34	-7°	1516	6	33.5	-7	17.2	8.3 ^ ~
35	-7°	1523	6	34.0	-7	26.5	7.1 ^ ~
36	-7°	1528	6	34.6	-7	24.3	9.4 ^ ~ -7° 1529 Superpred. mgqu. 9.5
37	-7°	1530	6	34.7	-7	50.2	8.5 ^ ~
38	-7°	1525 +1524 1524	6 6 6	34.3 34.3 34.2	-7 -7 -7	46.7 51.8 46.7	9.1 8.2 9.1 ~
39	-7°	1525	6	34.3	-7		
40	-7°	1520	6	33.9	-7	41.0	9.4 ^ ~
41	-7°	1518	6	33.7	-7	44.9	9.3 ^ ~
42	-8°	1511	6	33.3	-8	14.0	9.0 ^ ~
43	-8°	1510	6	33.1	-8	22.0	8.7 ^ ~
44	Uranus 1555 +004		6	33.3	-8	23	^ ~
45	-8°	1513	6	32.7 33.1	-8	35.4 22.0	9.1 ^ 8.7 ~
46	-8°	1506	6	31.9	-8	38.8	9.0 ^ ~
47	-8°	1507	6	31.9	-8	55.0	9.1 ^ ~
48	-9°	1557	6	31.6	-9	11.6	8.5 ^ ~
49	-9°	1564	6	32.3	-9	17.3	8.5 ^ ~
50	-9°	1553	6	31.1	-9	8.6	8.3 ^ ~
51	-9°	1549	6	30.7	-9	16.3	8.6 ^ ~
52	-9°	1545	6	30.3	-9	14.3	9.0 ^ ~
53	-9°	1541	6	29.9	-9	5.9	8.8 ^ ~
54	-9°	1533	6	29.0	-9	20.1	8.6 ^ ~

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Friday, Feb 21, 1913.

B 20803 short exps.

Nr.	Int.	Class	Remark
55	7	A0	
56	8	F0	
57	7	F0	
58	6	B9	
59	6	B5	
60	2	K0	
61	1	F8	
62	1	F2	
63	2	F0	
64	1	K5	
65	3	K0	
66	3	A2	
67	2	K5	
68	2	B8	
69	6	B3	
70	8	K0	
71	2	B9	
72	5	A0	Another star superposed at route.
73	2	A0	
74	1	G5	
75	2	A0	
76	10	B9	
77	2	A3	
78	6	B9	
79	2	G0	
80	5	F5	
81	3	F0	

55	-9°	1529	6	28.6	-9	15.5	8.5	∧ ∨
56	-9°	1537	6	29.6	-9	43.1	8.1	∧ ∨
57	-8°	1486	6	28.8	-8	52.6	8.0	∧ ∨
58	-8°	1482	6	28.1	-8	45.8	8.7	∧ ∨
59	-8°	1480	6	27.7	-8	30.4	8.8	∧ ∨
60	-8°	1481	6	28.0	-8	15.2	9.0	∧ ∨
61	-7°	1477	6	28.2	-7	58.4	9.0	∧ ∨
62	-7°	1483	6	29.0	-7	42.2	9.1	∧ ∨
63	-8°	1485	6	28.8	-8	16.5	9.2	∧ ∨
64	-8°	1484	6	28.7	-8	32.3	9.1	∧ ∨
65	-8°	1487	6	28.8	-8	26.1	9.0	∧ ∨
66	-8°	1490	6	29.5	-8	14.1	9.1	∧ ∨
67	-8°	1489	6	29.4	-8	42.8	8.8	∧ ∨
68	-8°	1491	6	29.8	-8	27.3	9.3	∧ ∨ Pl.: plate (B 20803 and short plate B 19782. Plate was at -8° 28.3 Probably Error in dec. in Dm cat. Dm chart is correct + agrees with plate.
69	-8°	1498	6	30.6	-8	23.3	8.5	
70	-8°	1499	6	30.9	-8	40.1	7.5	∧ ∨
71	-8°	1504	6	31.6	-8	34.4	9.5	∧ ∨ , magn. 9.7
72	-8°	1502	6	31.4	-8	2.3	9.1	-8° 1501 superposed
73	-8°	1505	6	31.7	-8	8.3	9.5	∧ ∨
74	-8°	1500	6	30.9	-8	13.0	9.5	∧ ∨
75	-7°	1494	6	30.5	-7	56.9	9.2	∧ ∨ -7° 1478 6 30.5 -7 53.3 magn. 9.3 also found
76	-8°	1496	6	30.6	-8	7.5	7.0	∧ ∨ -8° 1497 6 30.6 -8 7.5 magn. 9.8 sat.
77	-7°	1498	6	31.3	-7	40.6	9.3	∧ ∨
78	-7°	1497	6	31.2	-7	12.3	8.6	∧ ∨
79	-7°	1495	6	31.0	-7	8.2	8.8	∧ ∨
80	-6°	1641	6	30.8	-6	57.5	8.7	∧ ∨
81	-6°	1643	6	31.3	-6	51.2	9.1	∧ ∨

cards made out

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Friday, Feb 21, 1913.

B 30803 about asp.

Tro.	Int.	Class	Remark
82	2	A2	
83	3	A0	
84	3	F2	
85	2	A0	
86	3	A2	
87	2	K0	
88	2	F0	
89	2	K0	
90	3	A	Partly superposed on 91.
91	5	A3	
92	2	A3	The southern of two.
93	7	A0	
94	7	A5	
95	6	F2	
96	4	F5	
97	4	A	Partly superposed on 98.
98	6	B5	
99	6	F0	
100	3	A2	
101	2	A	Partly superposed on 102.
102	4	F0	
103	2	F5	
104	10	A0	
105	7	F5	
106	3	A0	
107	10	F0	
108	1	K5	

82	-6°	1648	6	31.6	-6	34.3	9.7	∧ ∨
83	-6°	1654	6	32.3	-6	35.0	9.2	∧ —
84	-6°	1658	6	32.6	-6	20.5	8.5	∧ ∨
85	-6°	1659	6	32.6	-6	51.4	9.1	∧ —
86	-6°	1651	6	32.2	-6	58.4	9.0	∧ ∨
87	-6°	1655	6	32.5	-6	58.6	9.0	∧ ∨
88	-7°	1507	6	32.6	-7	1.9	9.2	∧ ∨
89	-7°	1510	6	32.7	-7	33.0	9.3	∧ ∨
90	-7°	1508	6	32.6	-7	48.8	9.3	∧ ∨
91	-7°	1509	6	32.7	-7	54.5	9.0	∧ ∨
92	-7°	1505	6	32.3	-7	30.3	9.8	∧ ∨
93	-7°	1488	6	29.6	-7	10.6	8.6	∧ ∨
94	-6°	1629	6	29.7	-6	45.7	8.7	∧ ∨
95	-7°	1479	6	28.4	-7	15.8	8.5	∧ ∨
96	-7°	1474	6	27.5	-7	50.8	8.6	∧ —
97	-7°	1470	6	26.7	-7	58.6	9.3	∧ ∨
98	-8°	1475	6	26.6	-8	4.2	9.0	∧ —
99	-8°	1468	6	25.9	-8	3.4	8.5	∧ ∨
100	-8°	1477	6	26.5	-8	24.0	9.4	∧ ∨
101	-8°	1473	6	26.3	-8	49.0	9.4	∧ ∨
102	-8°	1471	6	26.2	-8	49.4	8.9	∧ ∨
103	-8°	1467	6	25.9	-8	46.4	8.5	∧ ∨
104	-8°	1469	6	26.1	-8	51.9	9.5	∧ ∨
105	-9°	1507	6	25.0	-9	32.0	8.3	∧ ∨
106	-7°	1453	6	25.1	-7	56.4	9.0	∧ ∨
107	-8°	1462	6	24.9	-8	33	5.5	∧ ∨
108	-8°	1465	6	25.1	-8	15.1	9.1	∧ ∨

-7 1504 b 32.3 -7 28.0
Magn. 9.8 Superposed

Cards made out.

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Friday. Feb. 21, 1913.

B 20803 short disp.

	Tur.	Int.	Class	Remarks
	109	1	g_0	
	110	1	F_8	
	111	3	A_0	
	112	2	A_0	
	113	7	A_3	
	114	2	F_0	
	115	5	K_2	
	116	4	A_2	
	117	2	F_0	
	118	8	B_9	
	119	4	B_9	
	120	7	B_9	
	121	9	A_2	
	122	5	B_2	
11.15	123	3	F_5	
11.35	124	2	F_8	
	125	10	B_9	
	126	2	A_0	
	127	1	A	
11.36	128	8	A_3	
13.25	129	2	g_5	
	130	8	F_0	
	131	3	A_2	
	132	3	A_0	
	133	4	g_0	The ≈ f. of tur.
	134	3	F_5	
	135	5	g_5	

109	−8°	1464	6	24.9	−8	20.5	9.1 1 ∪
110	−7°	1449	6	24.5	−7	55.1	9.0 1 ∪
111	−7°	1446	6	24.0	−7	37.9	9.1 1 ∪
112	−7°	1444	6	23.9	−7	24.5	9.0 1 ∪
113	−7°	1440	6	23.2	−7	38.4	8.5 1 ∪
114	−7°	1439	6	22.8	−7	24.5	9.3 1 ∪
115	−7°	1438	6	22.6	−7	16.0	8.2 1 ∪
116	−6°	1581	6	22.5	−6	58.0	9.0 1 ∪
117	−6°	1582	6	22.6	−6	47.5	9.4 1 ∪
118	−6°	1585	6	23.2	−6	20.1	7.8 1 ∪
119	−6°	1595	6	24.7	−6	52.6	8.8 1 ∪
120	−7°	1455	6	25.2	−7	12.0	8.3 1 ∪
121	−7°	1456	6	25.2	−7	18.3	7.5 1 ∪
122	−7°	1462	6	25.7	−7	24.2	8.4 1 ∪
123	−7°	1463	6	25.9	−7	41.2	8.8 1 ∪
124	−7°	1469	6	26.6	−7	37.0	9.1 1 ∪
125	−7°	1471	6	26.7	−7	5.8	8.0 1 ∪
126	−6°	1607	6	26.9	−6	48.7	9.3 1 ∪
127	−6°	1603	6	26.5	−6	39.5	9.1 1 ∪
128	−6°	1605	6	26.7	−6	27.5	8.6 1 ∪
129	−6°	1611	6	27.1	−6	31.8	8.9 1 ∪
130	−6°	1616	6	27.6	−6	2.2	8.5 1 ∪
131	−5°	1687	6	27.0	−5	55.1	9.0 1 ∪
132	−6°	1606	6	26.8	−6	0.2	9.0 ∪ ∪
133	−5°	1695	6	28.1	−5	28.4	8.9 1 ∪
134	−5°	1698	6	28.6	−5	42.6	9.0 1 ∪
135	−5°	1700	6	28.7	−5	45.5	8.3 1 ∪

−6° 1604 6 26.7 −6 ∪ wash 9.3 superposed

In this second following 1694 b 28.1 −5 28.4 −5 1694 9.3 is superposed ark 1700 Cannot note on preceding Page is not wrong

Ely Edmund Barnard

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Friday ~~Feb~~ 21, 1913.

B20803 shot disp.

Tro.	Int.	Class	Remarks
136	5	Ko	
137	4	A3	
138	2	Fs	
139	2	G	
140	2	A0	
141	1	A	
142	2	Ko	
143	2	A2	
144	3	F5	
145	5	Ko	
146	6	A0	
147	1	G5	
148	2	A	
149	1	G5	
150	2	G5	
151	8	Ma	
152	2	K	
153	4	A2	
154	2	A0	
155	2	K3	
156	2	K5	
157	2	F5	
158	1	G5	
159	2	K0	
160	2	A0	
161	5	K0	
162	2	A3	

136	-5°	1703	6	29.1	-5	41.9	8.4 ∧ ∨
137	-6°	1628	6	29.6	-6	15.3	9.1 ∧ ∨
138	-6°	1621	6	28.5	-6	24.7	9.2 ∧ ∨
139	-6°	1618	6	27.8	-6	34.6	9.1 ∧ ∨
140	-6°	1620	6	28.1	-6	13.8	9.4 ∧ ∨
141	-6°	1623	6	28.6	-6	8.1	9.5 ∧ ∨
142	-5°	1705	6	29.2	-5	54.7 58.8	9.5 ∧ ∨
143	-6°	1632	6	29.9	-6	6.1	9.4 ∧ ∨
144	-5°	1715	6	30.6	-5	40.9	9.2 ∧ ∨
145	-5°	1719	6	31.1	-5	45.8	9.0 ∧ ∨
146	-5°	1716	6	30.8	-5	25.0	8.8 ∧ ∨
147	-5°	1717	6	30.8	-5	54.5	9.0 ∧ ∨
148	-6°	1637	6	30.4	-6	2.2	9.4 ∧ ∨
149	-5°	1725	6	31.6	-5	57.7	9.4 ∧ ∨
150	-5°	1720	6	31.1	-5	18.2	9.2
		1718	6	30.9	-5	23.7	9.4 ∨
151	-6°	1664	6	33.2	-6	13.1	7.3 ∧ ∨
152	-5°	1739	6	33.5	-5	53.9	9.3 ∧ ∨
153	-6°	1665	6	33.4	-6	4.0	9.1 ∧ ∨
154	-5°	1743	6	33.7	-5	41.5	9.1 ∧ ∨
155	-5°	1748	6	34.2	-5	45.1	9.0 ∧ ∨
156	-5°	1751	6	35.0	-5	17.2	9.0 ∧ ∨
157	-5°	1728	6	32.6	-5	15.4	9.0 ∧ ∨
158	-4°	1596	6	31.3	-4	48.3	9.0 ∧ ∨
159	-4°	1593	6	31.0	-4	34.6	9.0 ∧ ∨
160	-5°	1714	6	30.5	-5	5.1	9.5 ∧ ∨
161	-4°	1581	6	29.3	-4	51.3	9.0 ∧ ∨
162	-4°	1580	6	28.6	-4	43.7	9.2 ∧ ∨

-5° 1717 6 30.2 -5 43.2 Images 9.6 superposed

cards made out

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Friday, Feb. 21. 1913.

T3 20803: short drift.

No.	Int.	Class	Remark
163	1	K5	
164	1	A	
165	4	Ko	
166	2	A	
167	4	K3g	
168	2	Ao	
169	3	Ko	Star of same class reproduced on fol. side.
170	3	Ao	
171	4	Ao	
172	2	A2	
173	2	F0	
174	2	K5	
175	5	K3	
176	2	F8	
177	2	Ko	
178	2	K3g	
179	3	K3g	
180	3	K3g	
181	1	A	
182	9	Ao	
183	3	K5	
184	8	K3	
185	4	F0	
186	2	A2	
187	3	A2	
188	5	Ao	
189	4	A5	

163	-4°	1586	6	29.8	-4	19.2	g.1 ∧ ⌣
164	-4°	1587	6	30.0	-4	30.8	g.4 ∧ ⌣
165	-4°	1590	6	30.6	-4	16.1	g.0 ∧ ⌣
166	-3°	1528	6	31.9	-3	40.2	g.1 ∧ ⌣
167	-3°	1540	6	33.2	-3	42.5	g.2 ∧ ⌣
168	-3°	1546	6	33.5	-3	47.3	g.1 ∧ ⌣
169	-3°	1544	6	33.4	-3	56.0	g.0 ∧ ⌣ -3° 1545 6 33.5 -3 56.0 magn. g.0 of reflexion
170	-4°	1619	6	34.5	-4	9.6	g.4 ∧ ⌣
171	-4°	1624	6	35.2	-4	14.5	g.2 ∧ ⌣
172	-2°	1699	6	32.0	-2	54.3	g.0 ∧ ⌣
		1504	6	28.7	-3	476	g.1
173	-3°	1501	6	28.4	-3	51.8	g.2 ⌣
174	-4°	1566	6	26.8	-4	27.8	g.5 ∧ ⌣
175	-4°	1558	6	25.5	-4	20.1	g.8 ∧ ⌣
176	-4°	1551	6	24.2	-4	10.6	g.0 ∧ ⌣
177	-4°	1549	6	23.8	-4	11.6	g.0 ∧ ⌣
178	-5°	1685	6	26.4	-5	10.2	g.4 ∧ ⌣
179	-5°	1683	6	26.2	-5	31.2	g.5 ∧ ⌣
180	-5°	1684	6	26.2	-5	46.0	g.3 ∧ ⌣
181	-5°	1682	6	25.8	-5	32.0	g.5 ∧ ⌣
182	-5°	1680	6	25.5	-5	14.2	g.9 ∧ ⌣
183	-5°	1669	6	24.7	-5	14.9	g.8 ∧ ⌣
184	-5°	1666	6	24.5	-5	16.3	g.0 ∧ ⌣
185	-4°	1552	6	24.2	-4	56.8	g.1 ∧ ⌣
186	-4°	1547	6	23.4	-4	39.2	g.0 ∧ ⌣
187	-5°	1659	6	23.1	-5	9.5	g.3 ∧ ⌣
188	-5°	1655	6	22.8	-5	29.2	g.0 ∧ ⌣
189	-5°	1650	6	22.0	-5	26.6	g.0 ∧ ⌣

Counts made over

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Friday. Feb 21, 1913.
13 00803 slant disp.

No.	Int.	Class	Remark
190	5	$I_{\frac{1}{2}}$	
191	5	$I_{\frac{1}{2}}$	
192	2	$I_{\frac{1}{2}}$	Partly superposed on 191.
193	1	A_2	
194	10+	F	
195	2	IV_0	
196	1	$I_{\frac{1}{2}}5$	
197	1	$I_{\frac{1}{2}}5$	
198	2	K_0	
199	2	$I_{\frac{1}{2}}$	
200	4	$V3_{\frac{1}{2}}$	
201	7	$V3_{\frac{1}{2}}$	
202	2	A_2	
203	8	$V3$	
204	3	A_5	
205	5	$V3$	
206	2	A_0	
207	9	$V3_{\frac{1}{2}}$	
208	5	$V3_3$	
209	2	IV_0	
210	7	A_0	
211	5	F_5	
212	6	A_0	
213	8	F_2	
214	8	$V3_{\frac{1}{2}}$	
215	3	Ma	
216	5	A_0	

190	−5°	1649	6	22.0	−5	29.1	8.7 ∧ ✓
191	−6°	1598	6	25.5	−6	23.2	8.7 ∧ ✓
192	−6°	1599	6	25.6	−6	26.1	9.2 ∧ ✓
193	−5°	1681	6	25.7	−5	45.8	9.4 ∧ ✓
194	−5°	1678	6	25.3	−5	46.2	5.7 ∧ ✓
195	−5°	1674	6	25.0	−5	42.0	9.0 ∧ ✓
196	−6°	1597	6	24.8	−6	20.3	9.0 ∧ ✓
197	−5°	1662	6	23.8	−5	46.8	9.0 ∧ ✓
198	−5°	1651	6	22.1	−5	39.0	9.0 ∧ ✓
199	−5°	1642	6	20.6	−5	51.5	9.0 ∧ ✓
200	−6°	1557	6	20.6	−6	8.0	9.2 ∧ ✓
201	−6°	1560	6	20.8	−6	12.5	8.9 ∧ ✓
202	−6°	1567	6	21.3	−6	11.3	9.5 ∧ ✓
203	−6°	1568	6	21.4	−6	27.6	8.1 ∧ ✓
204	−6°	1563	6	21.0	−6	34.5	9.3 ∧ ✓
205	−6°	1564	6	21.0	−6	49.9	8.8 ∧ ✓
206	−6°	1566	6	21.3	−6	41.3	9.4 ∧ ✓
207	−6°	1570	6	21.7	−6	52.7	8.7 ∧ ✓
208	−6°	1575	6	21.8	−6	56.8	5.5 Prismatic Companion
209	−7°	1436	6	21.5	−7	11.4	9.0 ∧ ✓
210	−7°	1434	6	21.1	−7	25.0	8.5 ∧ ✓
211	−7°	1433	6	20.7	−7	58.7	8.4 ∧ ✓
212	−8°	1439	6	20.6	−8	9.6	8.5 ∧ ✓
213	−8°	1441	6	21.6	−8	22.6	7.8 ∧ ✓
214	−8°	1443	6	21.9	−8	23.1	8.3 ∧ ✓
215	−8°	1448	6	22.3	−8	0.7	8.6 ∧ ✓
216	−8°	1454	6	22.0	−8	12.4	8.7 ∧ ✓

cards made with

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Friday. Feb. 21. 1913.

B 20803 short disp.

No.	Int.	Class	Remark
217	8	K5	
218	5	A0	
219	1	K5	
220	3	A0	
221	6	A2	
222	6	K0	
223	6	K2	
224	10	A2	
225	10+	A	
226	9	B8	
227	2	F5	
228	1.	K0	
229	1	G0	
230	3	K0	
231	1	G0	
232	1	G5	
233	3	F2	
234	7.	A0	
235	8	F5	
236	4	B9	
237	4	A2	The preceding of two.
238	4	K0	
12.50 239	7	B8	Another star partly superposed.
240			
241			

cnt. 133, 152

217	-9°	1483	6	22.4	-9	6.8	7.7 1 ✓
218	-8°	1442	6	21.8	-8	57.7	8.8 ∧ ✓
219	-9°	1473	6	20.8	-9	8.7	9.0 ∧ ✓
220	-8°	1438	6	20.4	-8	51.0	9.0 1 ✓
221	-8°	1434	6	19.5	-8	40.8	8.8 1 ✓
222	-8°	1430	6	18.9	-8	20.0	8.3 1 ✓
223	-8°	1424	6	18.2	-8	38.7	8.5 ∧ ✓
224	-7°	1422	6	19.0	-7	48.7	6.8 1 ✓
225	-7°	1429	6	19.7	-7	25.5	6.7 ∧ ✓ -7° 1428 6 19.7-7 25.5 magn. 9.0 superposed
226	-7°	1424	6	19.2	-7	16.8	7.8 ∧ ✓
227	-7°	1423	6	19.1	-7	2.5	9.0 1 ✓
228	-6°	1556	6	20.2	-6	27.9	9.1 1 ✓
229	-6°	1551	6	19.8	-6	41.3	9.3 ∧ ✓
230	-6°	1542	6	18.9	-6	7.6	8.5 ∧ ✓
231	-6°	1543	6	18.9	-6	17.0	9.0 ∧ ✓
232	-6°	1541	6	18.9	-6	28.5	9.0 ∧ ✓
233	-6°	1537	6	17.8	-6	11.2	9.0 ∧ ✓
234	-5°	1629	6	18.0	-5	46.5	8.3 1 ✓
235	-5°	1627	6	17.7	-5	25.2	8.0 1 ✓
236	-5°	1622	6	17.3	-5	21.1	9.0 1 ✓
237	-6°	1532	6	17.1	-6	30.3	9.2 ∧ ✓ -6 1533 6 17.1-6 29.9 magn. 9.3 superposed
238	-6°	1535	6	17.6	-6	48.9	8.3 1 ✓
239	-7°	1413	6	17.8	-7	31.6	8.7 -7° 1412 ∧ ✓ magn. 9.1 superposed

Identified by AMC. Mar. 5. 1918

Checked Dec. 8. 1913 J.D.W.

Cards made out by G.R.B.

Cards checked by AMC.

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Tuesday Feb. 25. 1913.

Time: 1.20

B 38834 short disp.

	No.	Int.	Class	Remark
✓	1	4	B?	Image very hazy.
✓	2	4	F5	
✓	3	6	F0	
✓	4	6	Oc	
✓	5	1	K5	
✓	6	3	F0	
✓	7	9	A2	
✓	8	8	B9	
✓	9	4	B9	
✓	10	2	A2	
✓	11	8	F0	
✓	12	2	A	
✓	13	3	F0	
✓	14	3	F2	
✓	15	6	B9	
✓	16	7	Ao	
✓	17	6	B5	
✓	18	9	B3	
✓	19	10	Ao	
✓	20	1	A	
✓	21	1	K0	
✓	22	2	F5	
✓	23	6	Ao	
✓	24	2	K0	
✓	25	7	B5	
✓	26	6	B5	
✓	27	8	B8	

1	−64°	1641	11	7.2	−64	32	7.8	✓	−64°, 1640 sup. 9.6
2	−64°	1636	11	5.9	−64	44	8.6	✓	
3	−64°	1633	11	3.4	−64	45	8.6	✓	
4	−64°	1629	10′	1.3	−64	50	8.3	✓	
5	−64°	1621	10	59.8	−64	54	9.2	✓	
6	−64°	1623	10′	0.0	−64	44	8.8	✓	
7	−64°	1630	11	1.4	−64	10	7.1	✓	
8	−63°	1819	10	59.9	−63	57	7.3	✓	
9	−64°	1615	10	58.2	−64	1	8.0	✓	
10	−64°	1610	10	57.8	−64	2	9.0	✓	
11	−63°	1794	10	56.9	−63	38	7.8	✓	
12	−64°	1574	10	54.3	−64	7	8.9	✓	
13	−63°	1767	10	53.3	−63	43	8.9	✓	
14	−63°	1743	10	49.7	−63	18	8.9	✓	
15	−63°	1724	10	47.9	−63	45	8.1	✓	
16	−63°	1708	10	46.1	−63	49	8.1	✓	
17	−63°	1699	10	45.4	−63	53	8.0	✓	
18	−63°	1670	10	43.1	−63	54	7.0	✓	
19	−63°	1672	10	43.3	−63	36	7.0	✓	
20	−63°	1688	10	44.5	−63	36	8.7	✓	
21	−63°	1702	10	45.7	−63	19	9.1	✓	
22	−63°	1684	10	44.2	−63	23	8.9	✓	
23	−63°	1682	10	44.1	−63	10	8.3	✓	
24	−63°	1675	10	43.5	−63	18	9.0	✓	
25	−62°	1749	10	41.8	−62	38	8.1	✓	
26	−62°	1787	10	46.9	−62	14	7.9	✓	
27	−61°	1908	10	45.5	−61	58	7.5	✓	

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Tuesday. Feb. 25, 1913.
B 38834 chart disp.

	No.	Int.	Class	Remark
✓	28	5	A3	
✓	29	3	F8	
✓	30	2	F3g	
✓	31	1	G	
✓	32	3	F3g	
✓	33	1	B9	
✓	34	2	A0	
✓	35	6	A2	
✓	36	2	K0	
✓	37	2	K0	
✓	38	10	B	
✓	39	8	B3	
✓	40	5	A0	
✓	41	10+	B3?	Burned out
✓	42	5	A0	
✓	43	1	A	
✓	44	3	A2	
✓	45	3	A	Too much superposed on 46.
✓	46	9	B5	
✓	47	8	B8	
✓	48	9	B3	
✓	49	4	A0	
✓	50	3	G0	
✓	51	3	A5	
✓	52	6	B3	
✓	53	2	M	3, 6, 10.
✓	54	2	K0	

Note change of nos. from 37. — through 54.

28	−61°	1890	10	43.7	−61	54	8.3	✓
29	−62°	1746	10	41.5	−62	11	8.8	✓
30	−62°	1739	10	40.8	−62	6	8.8	✓
31	−62°	1735	10	40.2	−62	7	8.9	✓
32	−62°	1728	10	38.7	−62	21	8.8	✓
33	−62°	1726	10	38.5	−62	19	9.1	✓
34	−62°	1718	10	37.4	−62	18	8.9	✓
35	−62°	1720	10	37.5	−62	51	8.0	✓
36	−62°	1731	10	39.1	−63	0	8.8	✓
37	−63°	1629	10	40.1	−63	9	8.8	✓
38	−63°	1623	10	39.6	−63	18	5.6	✓
39	−63°	1619	10	39.4	−63	36	6.9	✓
40	−63°	1613	10	39.0	−63	25	7.7	✓
41	−63°	1599	10	38.5	−63	44	3.8	✓
42	−64°	1439	10	38.2	−64	2	7.9	✓
43	−64°	1456	10	39.7	−64	1	8.8	✓
44	−64°	1469	10	41.1	−64	3	8.1	✓
45	−63°	1642	10	41.7	−63	56	8.0	✓
46	−63°	1646	10	41.7	−63	51	5.9	✓
47	−63°	1649	10	41.9	−63	36	5.8	✓
48	−63°	1655	10	42.3	−63	44	5.2	✓
49	−63°	1660	10	42.6	−63	36	8.1	✓
50	−63°	1654	10	42.2	−63	58	8.6	✓
51	−65°	1508	10	43.2	−65	16	8.7	✓
52	−65°	1505	10	42.9	−65	15	7.8	✓
53	−64°	1475	10	41.6	−64	57	9.5	✓
54	−64°	1452	10	39.3	−64	49	8.8	✓
55								

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Tuesday, Feb. 25, 1913.
B 38834 chart anp.

No.	Int.	Class	Remarks
✓ 55	2	A2	
✓ 56	10	F3	
✓ 57	1	F5	
✓ 58	7	A0	
✓ 59	8	B8	
✓ 60	7	B9	
✓ 61	9	B3	
✓ 62	4	B9	
✓ 63	6	B8	
✓ 64	6	B5	
✓ 65	1	A0	
✓ 66	6	B9	
✓ 67	8	B9	
✓ 68	2	F0	
✓ 69	4	A5	
✓ 70	2	F0	
✓ 71	2	A0	
✓ 72	2	B8	
✓ 73	4	B5	
✓ 74	2	B9	
✓ 75	3	A0	
✓ 76	6	A	Another star of same class superposed.
✓ 77	1	F0	
✓ 78	3	B8	
✓ 79	4	A2	
✓ 80	2	F0	
✓ 81	5	B8	

55	−64°	1443	10	38.4	−64	32	8.9	✓
56	−64°	1403	10	35.8	−64	27	5.7	✓
57	−64°	1394	10	35.2	−64	26	8.9	✓
58	−64°	1383	10	34.7	−64	19	8.0	✓
59	−64°	1374	10	34.0	−64	24	7.2	✓
60	−64°	1408	10	36.3	−64	0	7.3	✓
61	−63°	1592	10	37.8	−63	49	5.0	✓
62	−63°	1592	10	38.0	−63	45	7.4	✓
63	−63°	1583	10	37.1	−63	27	7.5	✓
64	−63°	1573	10	36.7	−63	49	7.0	✓
65	−64°	1395	10	35.2	−64	2	8.9	✓
66	−63°	1534	10	34.5	−63	51	7.3	✓
67	−63°	1542	10	35.0	−63	28	7.0	✓
68	−63°	1558	10	35.9	−63	21	8.9	✓
69	−63°	1544	10	35.0	−63	8	8.1	✓
70	−63°	1552	10	35.2	−63	2	8.7	✓
71	−63°	1539	10	34.7	−63	1	8.7	✓
72	−62°	1675	10	33.2	−62	59	8.7	✓
73	−63°	1513	10	31.7	−63	36	8.2	✓
74	−63°	1510	10	31.3	−63	38	8.5	✓
75	−63°	1507	10	30.9	−63	34	8.4	✓
76	−63°	1501	10	30.7	−63	29	8.1	✓ −63° 1503 anp. 8.4
77	−64°	1363	10	32.6	−64	26	9.2	✓
78	−64°	1354	10	30.7	−64	33	8.6	✓
79	−64°	1350	10	30.3	−64	41	8.6	✓
80	−64°	1342	10	30.0	−64	45	8.8	✓
81	−64°	1339	10	29.3	−64	43	8.2	✓

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Tuesday, Feb. 25, 1913.
B3+834 shut dirs.

	No.	Int.	Class	Remark
✓	82	3	B8	
✓	83	5	Ma	
✓	84	4	A3	
✓	85	6	A3	
✓	86	7	F2	
✓	87	7	A5	
✓	88	5	B	
✓	89	6	A0	
✓	90	4	A0	
✓	91	2	A	
✓	92	3	F8	
✓	93	3	B8	
✓	94	5	B8	
✓	95	4	B5	
✓	96	4	A5	
✓	97	1	K0	
✓	98	2	F8	
✓	99	2	F5	
✓	100	4	A2	
✓	101	9	B	
✓	102	4	K0	
✓	103	4	F2	
✓	104	3	A0	
✓	105	4	A	E.
✓	106	8	F2	E.
✓	107	10	B8	E.
✓	108	8	F5	

82	-64°	1340	10	29.4	-64	24	8.7	✓
83	-64°	1310	10	25.0	-64	32	8.6	✓
84	-64°	1303	10	23.9	-64	16	8.6	✓
85	-64°	1299	10	23.2	-64	24	8.3	✓
86	-63°	1440	10	24.7	-63	32	8.1	✓
87	-63°	1411	10	22.6	-63	43	7.8	✓
88	-63°	1465	10	27.6	-63	18	7.8	✓
89	-62°	1679	10	33.6	-62	24	8.2	✓
90	-62°	1695	10	34.7	-62	6	8.6	✓
91	-62°	1690	10	34.3	-62	6	9.0	✓
92	-61°	1772	10	34.9	-61	37	8.7	✓
93	-61°	1766	10	34.4	-61	38	8.8	✓
94	-61°	1750	10	32.9	-61	29	8.6	✓
95	-61°	1734	10	31.5	-61	13	8.4	✓
96	-62°	1621	10	27.1	-62	20	8.4	✓
97	-62°	1620	10	26.9	-62	29	9.4	✓
98	-62°	1624	10	27.5	-62	51	8.8	✓
99	-62°	1615	10	26.2	-62	55	8.8	✓
100	-62°	1588	10	23.3	-62	53	8.3	✓
101	-62°	1595	10	24.1	-62	32	6.8	✓
102	-62°	1589	10	23.4	-62	23	8.4	✓
103	-62°	1612	10	25.7	-62	4	8.3	✓
104	-61°	1694	10	25.8	-61	51	8.6	✓
105	-65°	1662	11	18.3	-65	9	8.3	✓
106	-64°	1659	11	18.3	-64	39	8.8	✓
107	-64°	1657	11	18.0	-64	16	5.5	✓
108	-63°	1881	11	14.0	-63	54	6.8	✓

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B38834 short exps.

	No.	Int.	Class	Remark
✓	109	2	A	
✓	110	3	B8	
✓	111	5	A2	
✓	112	10	B8	
✓	113	2	A2	
✓	114	2	A	
✓	115	2	A0	
✓	116	3	B3	
✓	117	3	A0	
Time 10.4 Feb. 26, 1913 ✓	118	1	G5	
Time 11.37 ✓	119	2	M2	
✓	120	2	F5	
✓	121	1	K	
✓	122	6	B8	
✓	123	2	F5	
✓	124	4	B8	
✓	125	1	A	
✓	126	2	B9	
✓	127	7	K0	
✓	128	3	F5	
✓	129	2	A3	
✓	130	10	G5	
✓	131	5	K5	
	132	2	A0	
✓	133	1	K5	
✓	134	10	B	
✓	135	4	M5	

109	−64°	1649	11	13.9	−64	22	8.8	✓
110	−63°	1880	11	13.6	−63	35	8.6	✓
111	−63°	1876	11	12.7	−63	22	7.9	✓
112	−63°	1860	11	7.6	−63	29	5.7	✓
113	−62°	1921	11	7.9	−62	48	8.8	✓
114	−63°	1856	11	5.4	−63	12	8.9	✓
115	−62°	1900	11	3.8	−62	58	9.0	✓
116	−63°	1845	11	3.3	−63	56	8.6	✓
117	−63°	1843	11	3.1	−63	49	8.8	✓
118	−64°	1632	10′	3.0	−64	17	9.1	✓
119	−62°	1889	11	1.9	−62	26	9.1	✓
120	−62°	1885	10′	1.4	−62	13	8.9	✓
121	−62°	1868	10	59.4	−62	17	9.5	✓
122	−62°	1862	10	58.2	−62	24	8.6	✓
123	−62°	1861	10	57.8	−62	49	8.9	✓
124	−62°	1845	10	54.7	−62	50	8.7	✓
125	−62°	1834	10	53.0	−62	16	9.2	✓
126	−62°	1832	10	52.8	−62	4	8.8	✓
127	−61°	2011	10	54.6	−61	49	8.6	✓
128	−61°	2044	10	57.7	−61	48	8.8	✓
129	−61°	2058	10	59.1	−61	51	9.0	✓
130	−61°	2067	10′	1.4	−61	45	6.7	✓
131	−61°	2068	11	1.5	−61	11	8.0	✓
132	−61°	2066	11	1.3	−61	0	8.6	✓
133	−61°	2071	11	2.2	−61	18	9.0	✓
134	−61°	2075	11	3.4	−61	16	6.0	✓
135	−60°	2554	11	3.2	−60	57	8.1	✓

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Wednesday, Feb. 26, 1913.

B 38834 start disp.

Nr.	Int.	Class	Remark
✓ 136	6	B8	
✓ 137	3	K2	
✓ 138	4	A0	
✓ 139	6	B3	
✓ 140	2	A	Fairly well superposed on 139.
✓ 141	6	B1	Lines narrow.
✓ 142	3	A2	
✓ 143	3	B2	
✓ 144	2	F8	
✓ 145	2	A0	
✓ 146	2	A2	
✓ 147	7	M5	
✓ 148	3	Ma	
✓ 149	6	F5	
✓ 150	7	B3	
✓ 151	2	B	
✓ 152	2	G5	The northern of two.
✓ 153	4	A0	
✓ 154	5	B8	
✓ 155	5	B5	
✓ 156	3	K3g	
✓ 157	7	K5	
✓ 158	4	M5	
✓ 159	3	K2	
✓ 160	4	K5	
✓ 161	5	G0	
✓ 162	3	A0	

136	−60°	2558	11	3.6	−60	53	7.5	✓
137	−61°	2103	10	6.9	−61	5	8.9	✓
138	−60°	2713	10	9.0	−60	54	8.2	✓
139	−60°	2455	10	56.1	−60	33	8.1	✓
140	−60°	2456	10	56.2	−60	35	8.6	✓
141	−60°	2460	10	56.6	−60	53	7.8	✓
142	−61°	2045	10	58.0	−61	13	8.8	✓
143	−61°	2046	10	58.1	−61	6	8.6	✓
144	−61°	2037	10	57.0	−61	29	8.8	✓
145	−61°	2031	10	56.8	−61	6	9.0	✓
146	−61°	2017	10	55.1	−61	27	9.2	✓
147	−60°	2499	10	59.4	−60	49	8.4	✓
148	−60°	2479	10	58.0	−60	14	8.7	✓
149	−60°	2478	10	57.9	−60	9	7.9	✓
150	−60°	2505	10	59.8	−60	23	7.6	✓
151	−60°	2508	11	0.0	−60	30	8.3	✓
152	−60°	2466	10	57.0	−60	47	9.0	✓ −60° 2465 sup. 9.4
153	−60°	2520	11	1.0	−60	34	8.4	✓
154	−60°	2522	11	1.0	−60	23	8.2	✓
155	−60°	2539	11	2.3	−60	42	8.2	✓
156	−64°	1604	10	57.1	−64	54	8.8	✓
157	−65°	1593	10	57.1	−65	20	8.0	✓
158	−65°	1587	10	55.9	−65	22	9.0	✓
159	−65°	1589	10	56.2	−65	11	8.8	✓
160	−65°	1586	10	55.8	−65	5	8.5	✓
161	−65°	1584	10	55.6	−65	53	8.9	✓
162	−65°	1594	10	57.2	−65	56	8.7	✓

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Wednesday, Feb. 26, 1913.
B3883 4 shot disp.

	Nos.	Int.	Class	Remarks
✓	163	1	F5	
✓	164	2	B8	
✓	165	6	A2	
✓	166	3	Met	
✓	167	3	A0	
✓	168	2	A2	
✓	169	7	B9	
✓	170	2	A0	
✓	171	2	B9	
✓	172	4	A3	
✓	173	5	F8	
✓	174	5	A0	
Time: 11.52	✓ 175	5	K0	
	176			
	177			
	178			

Cmh. 134, 149

163	−65°	1605	10	59.1	−65	52	9.2	✓
164	−65°	1598	10	58.0	−65	31	8.8	✓
165	−66°	1524	10	59.9	−66	13	8.5	✓
166	−66°	1507	10	58.3	−66	27	9.1	✓
167	−66°	1461	10	49.8	−66	37	8.9	✓
168	−66°	1455	10	49.4	−66	9	9.1	✓
169	−66°	1434	10	46.9	−66	9	8.0	✓
170	−66°	1412	10	42.3	−66	10	9.0	✓
171	−66°	1402	10	40.8	−66	5	9.0	✓
172	−66°	1399	10	40.3	−66	1	8.6	✓
173	−65°	1457	10	36.8	−65	26	8.4	✓
174	−66°	1357	10	35.2	−66	1	8.2	✓
175	−66°	1359	10	35.3	−66	31	8.8	✓

Identified on cards by AMC. June 13, 1914
Identified in book by JBM. June 26, 1914.
Identification compared cards + book, by G.R.B.

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Wednesday Feb. 26, 1913.

Time: 11.54

B40297 short exps.

No.	Int.	Class	Remark
1	3	As	
2	2	As	
3	1	Ma	
4	1	Ao	
5	2	Fo	
6	3	Ao	
7	8	Ao	
8	7	Ao	
9	9	Bq	
10	6	Ma	
11	1	Ao	
12	1	Ma	
13	2	Ao	
14	2	A3	
15	7	As	
16	2	A3	
17	7	Bq	
18	9	Ao	
19	2	Ao	The following of two.
20	7	Bq	The preceding of two.
21	4	Bq	
22	6	Bq	
23	1	Fs	
24	2	Fs	
25	9	Ao	
26	5	Bq	
27	4	Fo	

1	-68°	12′78	10	39.8′	-68	47.6	8.3	J
2	-68°	12′73	10	38.6	-68	27.0	8.7	J
3	-68°	12′67	10	38.0	-68	53.8	9.4	J
4	-69°	13′42	10	37.6	-69	2.8	9.0	J
5	-68°	12′46	10	34.9	-68	53.0	8.4	J
6	-68°	12′48	10	35.0	-68	4.8.2	8.4	J
7	-68°	12′45	10	34.6	-68	37.3	7.8	J
8	-68°	12′34	10	33.6	-68	42.8	8.1	J
9	-69°	13′06	10	31.8	-69	10.2	7.8	J
10	-68°	12′20	10	31.4	-68	42.1	8.4	J
11	-68°	12′19	10	31.4	-68	58.2	9.2	J
12	-68°	12′17	10	31.1	-68	56.4	9.2	J
13	-68°	12′14	10	30.8	-68	32.8	8.8	J
14	-68°	12′11	10	30.0	-68	24.4	8.8	J
15	-68°	11′96	10	28.5	-68	8.9	8.3	J
16	-68°	11′87	10	27.8	-68	31.2	8.8	J
17	-68°	11′85	10	27.6	-68	19.6	7.6	J
18	-68°	11′84	10	27.5	-68	15.3	7.4	J
19	-68°	11′83	10	27.0	-68	26.1	8.9	J
20	-67°	13′68	10	26.4	-67	54.8	7.9	J
21	-68°	11′64	10	24.8	-68	20.0	8.4	J
22	-67°	13′38	10	23.5	-67	51.7	7.8	J
23	-67°	13′43	10	23.8	-67	39.0	9.2	J
24	-67°	13′29	10	22.4	-67	42.2	9.0	J
25	-67°	13′20	10	20.7	-67	29.7	8.6	J
26	-67°	13′12	10	19.9	-67	46.4	8.3	J
27	-67°	13′13	10	20.0	-67	38.6	8.6	J

Cards made out

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Wednesday, Feb. 26, 1913

B 40297 chart dups.

No.	Int.	Class	Remark
28	6	A2	
29	8	B8	
30	4	A2	
31	2	F2	
32	3	F2	
33	5	G5	
34	4	A0	
35	7	F2	
36	6	A0	
37	7	A2	
38	2	F5	
39	10+	A	Burned out.
40	1	F2	
41	2	G5	
42	3	K0	
43	5	B9	
44	4	F2	
45	2	A0	
46	3	A2	
47	5	F2	
48	7	B9	
49	2	A	Image hazy.
50	7	B9	
51	2	A3	
52	4	A0	
53	7	A	Another star of same class superposed.
54	9	B9	

28	-67°	1294	10	17.4	-67	40.6	8.0	J
29	-67°	1292	10	17.2	-67	26.2	7.6	J
30	-67°	1283	10	16.3	-67	34.5	8.4	J
31	-68°	1123	10	18.3	-68	18.9	9.2	J
32	-68°	1124	10	18.3	-68	42.0	8.8	J
33	-68°	1122	10	18.2	-68	41.3	8.3	J
34	-68°	1100	10	15.3	-68	48.1	8.5	J
35	-69°	1189	10	12.1	-69	1.1	8.1	J
36	-69°	1202	10	14.0	-69	53.3	7.9	J
37	-69°	1191	10	12.6	-69	38.4	8.2	J
38	-69°	1190	10	12.4	-69	25.1	8.8	J
39	-69°	1178	10	10.7	-69	25.0	4.2	J
40	-69°	1183	10	11.4	-69	11	9.0	J
41	-69°	1180	10	10.9	-69	9.5	8.9	J
42	-69°	1172	10	9.8	-69	12.2	9.0	J
43	-69°	1168	10	8.8	-69	5.1	8.4	J
44	-69°	1164	10	8.2	-69	2.9	8.6	J
45	-69°	1163	10	8.0	-69	2.4	8.6	J
46	-68°	1043	10	7.8	-68	47.6	8.8	J
47	-68°	1062	10	10.4	-68	28.7	8.7	J
48	-68°	1067	10	11.3	-68	15.1	8.2	J
49	-67°	1253	10	12.0	-67	44.0	9.0	J
50	-67°	1266	10	13.9	-67	31.1	8.4	J
51	-67°	1278	10	15.6	-67	15.0	8.9	J
52	-67°	1297	10	18.1	-67	8.6	8.5	J
53	-66°	1233	10	17.3	-66	53.9	8.5	J
54	-66°	1226	10	16.5	-66	32.4	7.2	J

-66°/1232 image superposed

cards made out

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Wednesday, Feb. 26, 1913.
B 40297 short exp.

No.	Int.	Class	Remark
55	2	A0	
56	2	F5	
57	8	F0	
58	5	F5	
59	5	A0	
60	8	B9	
61	5	A3	
62	6	F8	
63	3	G0	Partly superposed on 64.
64	6	G5	
65	4	A0	
66	8	B8	Star of class A superposed at north.
67	6	F5	
68	1	A3	
69	1	A	
70	2	A0	
71	7	F0	
72	2	F5	
73	9	B8	
74	3	F2	
75	2	F0	
76	2	F5	
77	4	B9	
78	8	F0	
79	10	A0	
80	2	A0	
81	1	A2	

55	-66°	12.25	10	16.0	-66	45.7	9.0	✓
56	-66°	12.24	10	15.7	-66	43.1	9.0	✓
57	-66°	12.18	10	14.4	-66	47.3	8.9	✓
58	-66°	12.23	10	15.2	-66	19.7	8.8	✓
59	-66°	12.22	10	15.2	-66	10.1	8.6	✓
60	-65°	13.91	10	13.6	-65	58.0	8.8	✓
61	-66°	12.10	10	11.8	-66	16.0	8.8	✓
62	-66°	12.07	10	11.2	-66	31.2	8.5	✓
63	-66°	12.08	10	11.6	-66	40.5	8.7	✓
64	-66°	12.09	10	11.6	-66	39.8	8.5	✓
65	-67°	12.43	10	11.0	-67	41.3	8.4	✓
66	-67°	12.39	10	10.5	-67	26.3	7.2	✓
67	-67°	12.31	10	9.0	-67	27.0	8.6	✓
68	-67°	12.26	10	8.7	-67	41.2	8.9	✓
69	-67°	12.25	10	8.2	-67	39.5	9.0	✓
70	-67°	12.24	10	8.6	-67	22.1 16.4	8.2	✓
71	-67°	12.22	10	8.0	-67	16.4	8.2	✓
72	-67°	12.17	10	7.3	-67	23.1	9.0	✓
73	-67°	12.16	10	7.2	-67	13.6	7.3	✓
74	-67°	12.13	10	6.3	-67	41.4	8.6	✓
75	-67°	12.10	10	5.9	-67	53.2	8.7	✓
76	-67°	12.07	10	4.9	-67	42.8	8.8	✓
77	-67°	12.04	10	4.4	-67	44.0	8.4	✓
78	-67°	11.98	10	2.8	-67	41.4	7.9	✓
79	-68°	10.34	10	6.4	-68	4.4	6.0	✓
80	-68°	10.36	10	6.7	-68	11.7	8.8	✓
81	-68°	10.52	10	8.5	-68	10.1	8.8	✓

cards made out

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Wednesday, Feb. 26, 1913.

B40297 chart disp.

No.	Int.	Class	Remark
82	2	Ao	
83	3	Ao	
84	4	A2	
85	4	F5	
86	1	Ao	
87	1	Ma	
88	4	A2	
89	4	A3	
90	2	Ao	
91	2	F5	
92	9	B8	
93	8	F5	
94	4	A2	
95	6	Mb	
96	2	Ma	
97	8	Ao	
98	3	G5	
99	2	K0	
100	2	Ao	
101	2	A5	
102	4	Ao	
103	7	B8	
104	6	Ao	
105	3	Ao	
106	7	Ao	
107	2	K5	
108	3	Ao	

82	-68°	1028	10	3.7	-68	27.1	9.0	✓
83	-68°	1024	10	1.7	-68	45.0	8.8	✓
84	-68°	1020	~~10~~ 9	59.6	-68	43.3	8.3	✓
85	-69°	1288	10	28.5	-69	26.4	98.2	✓
86	-68°	~~1195~~ 1217	10	~~28.5~~ 31.1	-68	~~61.4~~ 56.4	8.9 9.2	✓ ✓
87	-68°	1275	10	26.8	-69	12.8	9.2	✓
88	-69°	1273	10	26.6	-69	35.2	8.3	✓
89	-69°	1258	10	24.8	-69	46.1	8.6	✓
90	-69°	1266	10	25.7	-69	14.4	8.7	✓
91	-68°	1174	10	25.9	-68	58.1	9.8	✓
92	-69°	1251	10	23.5	-69	14.8	8.2	✓
93	-69°	1235	10	20.9	-69	17.0	8.4	✓
94	-68°	1144	10	22.4	-68	44.3	8.7	✓
95	-670°	1108	10	26.8	-70	14.8	8.4	✓
96	-69°	1299	10	31.0	-69	42.2	9.2	✓
97	-69°	1304	10	31.6	-69	58.1	7.9	✓
98	-70°	1142	10	32.8	-70	4.8	8.6	✓
99	-70°	1145	10	33.7	-70	11.2	8.9	✓
100	-69°	1826	10	34.1	-69	59.2	8.7	✓
101	-69°	1315	10	33.0	-69	56.8	8.5	✓
102	-69°	1316	10	33.7	-69	47.0	8.4	✓
103	-69°	1323	10	34.8	-69	39.6	7.4	✓
104	-67°	~~1588~~ 1583	10	40.3	-67	55.9	8.3	✓
105	-67°	~~1525~~ 1465	10	40.5	-67	35.4	8.4	✓
106	-67°	~~1514~~ 1484	10	41.7	-67	28.4	8.7	✓
107	-67°	~~1441~~ 1390	10	39.8	-67	~~57.8~~ 6.2	9.2	✓
108	-66°	1385	10	39.0	-66	49.5	9.0	✓

Cards made out

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Wednesday, Feb 26, 1913.

B 40297 shot disp.

No.	Int.	Class	Remark
109	1	K5	
110	3	A0	
111	82	A [illegible]	
112	6	B3	
113	5	A2	
114	3	Ma	
115	3	A2	
116	1	K	
117	7	B3	
118	2	K0	
119	2	A2	
1200	3	A2	
1221	9	B3	
122	3	A0	
123	2	K5	
124	1	K0	
125	4	K0	
126	1	K5	
127	1	A0	
128	4	A0	
129	2	K2	
130	4	F0	
131	10	F8	
132	4	A0	
133	3	A0	
134	1	A0	
135	3	A0	

109	-66°	1386	10	39.1	-66	38.0	9.2	✓
110	-67°	1466	10	38.8	-67	7.2	9.0	✓
111	-67°	1461	10	38.4	-67	23.1	9.1	✓
112	-67°	1459	10	38.1	-67	14.4	8.8	✓
113	-67°	1456	10	37.6	-67	14.8	8.9	✓
114	-67°	1454	10	37.5	-67	3.3	9.2	✓
115	-66°	1346	10	33.2	-66	38.0	9.0	✓
116	-66°	1338	10	31.7	-66	24.4	9.2	✓
117	-66°	1336	10	30.8	-66	31.0	8.8	✓
118	-66°	1332	10	31.0	-66	45.3	9.2	✓
119	-66°	1320	10	30.5	-66	54.1	9.1	✓
120	-67°	1387	10	29.3	-67	3.0	9.0	✓
121	-67°	1375	10	27.3	-67	3.7	8.1	✓
122	-67°	1416	10	32.6	-67	35.6	8.6	✓
123	-67°	1397	10	30.4	-67	48.8	9.2	✓
124	-67°	1391	10	29.7	-67	57.3	9.2	✓
125	-66°	1278	10	24.6	-66	48.0	8.8	✓
126	-66°	1273	10	23.2	-66	55.1	9.2	✓
127	-66°	1268	10	22.7	-66	52.7	9.1	✓
128	-66°	1262	10	22.3	-66	58.9	8.9	✓
129	-66°	1257	10	21.1	-66	51.8	9.2	✓
130	-66°	1295	10	26.8	-66	9.8	8.8	✓
131	-66°	1291	10	26.3	-66	20.5	7.4	✓
132	-65°	1393	10	28.1	-65	55.6	8.5	✓
133	-65°	1392	10	27.7	-65	48.6	8.6	✓
134	-65°	1383	10	26.8	-65	44.8	9.0	✓
135	-65°	1368	10	25.6	-65	49.1	8.5	✓

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B340297 Short exps.

	No.	Int.	Class	Remark
	136	4	A0	
	137	2	F0	
	138	2	F5	
	139	5	A3	
	140	10+	A	Burned out
12.15	141	1	A	
12.35	142	5	A3	
	143	8	A0	
	144	6	F0	
	145	3	A2	
	146	5	A0	
	147	3	A0	
	148	2	A3	
	149	10	A3	
	150	1	K5	
	151	5	K5	
	152	7	A5	
	153	4	K5	
	154	7	K0	
	155	3	A0	
	156	6	A0	
	157	3	K2	
	158	3	A0	
	159	8	A0	
	160	2	A5	
	161	8	K2	
Time 12.37	162	7	A0	

cont on page 203

136	-66°	1285	10	25.0	-66	3.5	8.5	✓
137	-66°	1281	10	24.4	-66	8.0	9.0	✓
138	-66°	1260	10	22.1	-66	0.0	9.0	✓
139	-66°	1247	10	19.9	-66	0.8	8.5	✓
140	-66°	1243	10	19.3	-66	15.9	6.0	✓
141	-66°	1238	10	19.0	-66	2.4	9.2	✓
142	-65°	1313	10	17.9	-65	28.9	8.4	✓
143	-65°	1305	10	16.6	-65	26.1	7.8	✓
144	-65°	1315	10	18.4	-65	37	8.2	✓
145	-65°	1398	10	14.4	-65	27.8	8.6	✓
146	-65°	1295	10	14.1	-65	30.8	8.4	✓
147	-66°	1288	10	13.1	-65	27.4	8.8	✓
148	-65°	1283	10	12.0	-65	24.1	8.9	✓
149	-65°	1273	10	10.0	-65	45.2	6.2	✓
150	-66°	1205	10	10.1	-66	9.3	9.2	✓
151	-66°	1201	10	9.0	-66	4.5	8.8	✓
152	-65°	1267	10	8.9	-65	40.1	8.0	✓
153	-65°	1265	10	8.6	-65	33.9	8.7	✓
154	-65°	1259	10	6.6	-65	59.2	8.3	✓
155	-65°	1261	10	7.2	-65	22.6	8.5	✓
156	-65°	1276	10	10.2	-65	5.2	7.7	✓
157	-64°	1222	10	10.6	-64	51.2	8.8	✓
158	-64°	1234	10	12.8	-64	55.0	8.7	✓
159	-64°	1238	10	13.8	-64	48.3	7.5	✓
160	-64°	1244	10	15.0	-64	43.9	8.7	✓
161	-64°	1250	10	15.9	-64	33.4	8.2	✓
162	-64°	1202	10	17.4	-64	34.0	7.5	✓

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