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Wednesday, April 18, 1912

Time 2h 1m.50

I 37716

No.	Int.	class	Remark
1	3	Y5	
2	3	Y5	
3	2	Y	
4	2	Y5	
5	8	F8	
6	3	Y0	
7	2	Y0	
8	2	Y5	
9	3	A5	
10	2	K0	
11	1	K	
12	2	Y5	
13	~~3~~	Y	
14	2	K0	
15	7	F0	
16	2	A	
17	4	Y5	
18	4	F0	
19	2	K0	
20	10	K0	
21	2	Y5	
22	2	Y	
23	2	Y0	
24	5	Y0	
25	3	F5	Diffuse
26	3	F0	
27	2	Y5	

1	+58°	1271	10	30.0	+58	9.2	8.8	✓
2	+58°	1268	10	28.3	+58	37.8	8.9	✓
3	+58°	1268	10	28.3	+58	52.5 / ~~37.8~~	9.0 / ~~8.9~~	✓
4	+60°	1270	10	27.9	+60	31.9	8.9	✓
5	+60°	1274	10	28.9	+60	51.6	6.7	✓
6	+60°	1279	10	31.6	+60	5.9	8.0	✓
7	+58°	1276	10	33.5	+58	42.1	8.8	✓
8	+58°	1278	10	33.8	+58	42.6	8.5	✓
9	+58°	1280	10	35.7	+58	41.2	9.0	✓
10	+59°	1323	10	35.6	+59	28.5	8.8	✓
11	+59°	1325	10	36.9	+59	49.2	8.7	✓
12	+60°	1287	10	37.4	+60	0.1	8.3	✓
13	+59°	1327	10	37.9	+59	27.8	9.0	✓
14	+60°	1287	10	38.4	+60	25.7 / ~~0.1~~	8.5	✓
15	+60°	1289	10	38.3	+60	51.9	7.2	✓
16	+61°	1203	10	40.4	+61	18.7	9.0	✓
17	+61°	1204	10	40.9	+61	32.5	7.8	✓
18	+60°	1295	10	42.0	+60	55.5	8.0	✓
19	+60°	1294	10	41.1	+60	39.8	8.5	✓
20	+60°	1296	10	42.3	+60	4.9	5.8	✓
21	+59°	1333	10	44.3	+59	49.1	8.3	✓
22	+59°	1332	10	43.1	+59	9.7	9.1	✓
23	+58°	1289	10	45.5	+58	39.3	9.0	✓
24	+60°	1299	10	49.4	+60	2.5	7.7	✓
25	+59°	1337	10	50.8	+59	50.2	9.0	✓
26	+60°	1297	10	45.5	+60	58.2	8.3	✓
27	+60°	1301	10	52.7	+60	53.9	8.7	✓

+58° 1277 10 30.0 +58 7.3 image 52.5 superposed

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April 18, 1912 (Cont.)

I 37716

No.	Dur.	Class	Remark
28	2	K0	
29	4	G5	
30	1	K	
31	1	G	
32	2	F5	
33	2	G5	
34	2	F8	
35	1	G	
36	3	K0	
37	6	G5	
38	1	G	
39	8	A2	
40	2	K0	
41	3	K0	
42	2	F	
43	2	F5	
44	4	F5	
45	2	K0	
46	9	A3	
47	8	K0	
48	6	A0	
49	3	G5	
50	5	G5	
51	1	G0	
52	1	G	
53	5	F5	
54	6	K5	

28	+60°	1304	10	54.0	+60	55.5	8.6	^ ✓
29	+60°	1306	10	55.5	+60	38.5	8.0	^ ✓
30	+60°	1307	10	53.8	+60	35.5	9.0	^ ✓
31	+60°	1308	10	56.4	+60	19.8	9.0	^ ✓
32	+60°	1309	10	57.1	+60	36.1	8.8	^ ✓
33	+59°	1346	10	53.8	+59	41.0	8.8	^ ✓
34	+59°	1348	10	56.3	+59	13.8	9.0	^ ✓
35	+59°	1349	10	56.7	+59	15.8	9.4	^ ✓
36	+61°	1220	11	0.4	+61	0.4	8.5	^ ✓
37	+61°	1223	11	1.1	+61	33.3	7.3	^ ✓
38	+61°	1222	11	1.0	+61	53.9	9.0	^ ✓
39	+61°	1226	11	3.4	+61	58.9	7.9	^ ✓
40	+61°	1228	11	3.5	+61	54.4	8.3	^ ✓
41	+61°	1229	11	4.7	+61	17.6	8.7	^ ✓
42	+60°	1314	〃	5.0	+60	32.6	8.9	^ ✓
43	+59°	1355	11	4.9	+59	55.6	8.7	^ ✓
44	+60°	1316	〃	7.1	+60	34.1	8.6	^ ✓
45	+60°	1317	〃	7.4	+60	49.3	9.0	^ ✓
46	+60°	1318	〃	7.8	+60	42.9	6.7	^ ✓
47	+61°	1235	11	8.9	+61	3.6	6.5	^ ✓
48	+59°	1362	11	7.4	+59	54.6	8.5	^ ✓
49	+59°	1363	11	8.1	+59	28.6	8.8	^ ✓
50	+59°	1364	11	8.1	+59	44.1	8.2	^ ✓
51	+59°	1366	11	9.4	+59	49.8	9.0	^ ✓
52	+60°	1322	11	11.9	+60	37.0	9.3	^ ✓
53	+61°	1238	11	12.8	+61	22.5	8.5	^ ✓
54	+60°	1326	11	16.4	+60	27.2	7.5	^ ✓

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April 18, 1912 (Cont.)
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No.	Int.	Class	Remark
55	2	G	
56	2	G5	
57	3	G5	
58	8	F0	
59	10	G	e.
60	3	G	e
61	2:	G	e
62:	3	K0	
63	2:	G	
64	5	K2:	
65	3	G0	
66	2:	G	
67	1	G5	
68	2:	G5	
69	2:	G	
70	2:	A2:	
71	2:	F	
72:	2:	G	
73	3	F0	
74	4	F5	
75	3	A2:	
76	5	K0	
77	6	G0	
78	3	G0	
79	2:	F5	
80	8	F8	
81	10+	K	Classified from trail

55	+59°	1371	11	14.9	+59	28.2	8.9	^ v
56	+59°	1377	11	17.5	+59	33.4	8.6	^ v
57	+59°	1380	11	19.4	+59	30.5	8.3	^ v
58	+60°	1380	~~10~~ 11	23.1	+60	29.6	6.8	^ v
59	+61°	1246	11	24.1	+61	52.1	6.0	^ v
60	+62°	1134	10	22.2	+62	29.7	8.9	^ v
61	+62°	1135	10	23.6	+62	23.4	9.0	^ v
62:	+63°	911	10	24.3	+63	8.7	8.5	^ v
63	+63°	913	10	26.3	+63	1.3	9.4	^ v
64	+62°	1142	10	33.7	+62	58.4	7.3	^ v
65	+63°	918	10	32.8	+63	47.5	8.3	^ v
66	+63°	922	10	36.0	+63	31.4	9.0	^ v
67	+63°	924	10	38.7	+63	17.5	8.8	^ v
68	+62°	1144	10	39.7	+62	52.0	9.0	^ v
69	+62°	1145	10	40.6	+62	28.7	8.8	^ v
70	+61°	1202	10	38.3	+61	38.8	9.0	^ v
71	+62°	1148	10	42.4	+62	16.0	8.8	^ v
72:	+61°	1208	10	43.7	+61	58.9	9.0	^ v
73	+62°	1151	10	46.0	+62	10.2	8.6	^ v
74	+62°	1153	10	48.2	+62	12.3	8.5	^ v
75	+62°	1154	10	48.8	+62	31.3	8.8	^ v
76	+62°	1156	10	49.7	+62	29.3	8.1	^ v
77	+62°	1155	10	49.1	+62	43.6	8.0	^ v
78	+61°	1215	10	51.7	+61	48.1	8.5	^ v
79	+61°	1218	10	56.6	+61	10.8	9.0	v
80	+62°	1160	10	54.4	+62	26.2	6.5	^ v
81	+62°	1161	10	54.8	+62	31.0	2.0	^ v

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April 18, 1912 (Cont'd)

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No.	Int.	Class	Remark
82	3	F	
83	3	K	
84	4	Q2	
85	4	G5	
86	5	F5	
87	3	K0	
88	4	G5	
89	3	Q3	
90	7	K0	
91	6	F2	
92	3	K0	
93	3	A0	
94	6	F0	
95	3	A	
96	4	F	E
97	9	F	E
98	2	K	
99	3	G5	
100	2	F5	
101	8	K0	
102	4	G5	E
103	3	F	E
104	2	K2	E
105	6	K0	
105a	2	B8	
106	10	A0	
107	3	A	E
108	4	F2	E

82	+63°	939	10	54.9	+63	4.2	8.8	^	v
83	+63°	940	10	56.6	+63	22.8	8.7	^	v
84	+63°	944	11	0.3	+63	17.5	8.3	^	v
85	+63°	945	11	0.8	+63	45.5	7.8	^	v
86	+64°	834	11	0.8	+64	6.0	7.5	^	v
87	+63°	946	11	3.4	+63	42.4	8.8	^	v
88	+63°	947	11	5.3	+63	8.2	7.5	^	v
89	+63°	949	11	9.1	+63	2.6	8.8	^	v
90	+62°	1172	11	10.4	+62	58.4	7.3	^	v
91	+63°	952	11	12.0	+63	9.1	8.0	^	v
92	+61°	1230	11	6.7	+61	32.6	8.0	^	v
93	+61°	1233	11	7.9	+61	23.0	8.8	^	v
94	+63	957	11	14.7	+63	29.2	7.8	^	v
95	+63°	959	11	17.7	+63	17.0	8.6	^	v
96	+62°	1180	11	18.8	+62	54.6	8.4	^	v
97	+62°	1183	11	20.8	+62	34.0	6.4	^	v
98	+62°	1178	11	18.2	+62	10.2	8.5	^	v
99	+61°	1242	11	16.3	+61	41.1	8.8	^	v
100	+61°	1244	11	20.2	+61	21.1	8.8	^	v
101	+64°	810	10	39.9	+64	33.2	7.0	^	v
102	+64°	814	10	44.1	+64	19.2	8.3	^	v
103	+63°	928	10	44.3	+63	58.4	8.7	^	v
104	+63°	930	10	45.7	+63	43.0	8.2	^	v
105a?	+62°	1149	10	43.4	+62	53.9	8.7	^	v
105	+65°	1148	10	146.8	+65	18.6	7.5	^	v
106	+64°	834	10	51.9	+64	11.7	6.8	^	v
107	+64°	840	11	9.8	+64	57.4	8.3	^	v
108	+64°	841	11	10.1	+64	18.2	8.2	^	v

105a? See another 107

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April 18, 1912 (cont)

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No.	Int.	Class	Remark
109	2	Ks	E
110	10	A0	E
111	3	F	E
112	5	F5	E
113	3	G5	E
114	6	K0	
June 22.15 115	5	Ma	

Cmb. 134, 176

109	+64°	838	11	8.3	+64	3.0	8.9	∧ ∨
110	+65°	828	11	14.2	+65	7.7	6.0	∧ ∨
111	+64°	846	11	17.6	+64	36.8	8.7	∧ J
112	+64°	848	11	20.6	+64	22.1	7.5	∧ J
113	+63°	960	11	~~28.5~~ 18.5	+63	53.9	8.0	∧ ∨
114	+62°	1188	11	24.8	+62	53.6	7.8	∧ J
115	+62°	1190	11	29.3	+62	59.1	7.0	∧ ∨

Identified by A.M.C. April 30, 1912

Checked June 8, 1912 EDW.

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Friday, April 19, 1912

Time: 21. 41

No.	Int.	Class	Remark
1	4	F	E.
2	10	Bq	
3	8	K2	
4	3	fg0	
5	9	F2	
6	4	A0	
7	3	fg	E.
8	1	fg	E.
9	5	K0	
10	7	F0	
11	5	Mb	
12	2	fg	
13	3	A3	
14	1	fg5	
15	2	fg	
16	4	Ma	
17	8	Ma	
18	4	K0	
19	5	F8	
20	2	F5	
21	2	K0	
22	1	fg	
23	4	F2	
24	3	F8	
25	3	fg	
26	3	fg0	
27	8	F2	

57.4
+37 11

1	+33°	2466	14	21.6	+33	37.5	8.2	✓
2	+32°	2482	14	23.6	+32	26.1	6.5	✓
3	+31°	2627	14	25.6	+31	57.1	8.7	✓
4	+32°	2485	14	26.1	+32	16.8	8.5	✓
5	+33°	2474	14	28.0	+33	10.6	6.8	✓
6	+33°	2471	14	26.3	+33	51.0	8.5	✓
7	+33°	2470	14	25.3	+33	43.7	8.5	✓
8	+33°	2478	14	30.7	+33	55.3	9.0	✓
9	+34°	2544	14	31.0	+34	18.6	7.5	✓
10	+32°	2497	14	31.4	+32	14.5	7.8	✓
11	+33°	2482	14	33.2	+33	9.6	8.3	✓
12	+33°	2486	14	35.7	+33	37.9	8.6	✓
13	+34°	2551	14	34.7	+34	54.2	8.5	✓
14	+34°	2552	14	36.4	+34	44.3	8.7	✓
15	+35°	2599	14	36.9	+35	4.3	8.5	✓
16	+34°	2559	14	39.2	+34	59.3	7.7	✓
17	+33°	2489	14	39.2	+33	24.6	6.6	✓
18	+32°	2511	14	38.7	+32	44.8	7.9	✓
19	+33°	2491	14	40.4	+33	8.0	8.2	✓
20	+33°	2492	14	41.2	+33	32.9	9.2	✓
21	+33°	2490	14	39.8	+33	43.9	9.1	✓
22	+32°	2515	14	42.1	+32	42.8	9.0	✓
23	+32°	2516	14	42.3	+32	42.8	8.6	✓
24	+32°	2518	14	43.9	+32	36.5	8.7	✓
25	+33°	2503	14	45.0	+33	33.6	9.0	✓
26	+33°	2505	14	46.7	+33	2.1	8.4	✓
27	+33°	2507	14	46.9	+33	16.7	7.0	✓

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April 19, 1912

I 37 5574 +12

No.	Int.	Class	Remark
28	7	Ko	
29	4	Ko	
30	6	Ko	
31	4	Ky5	
32	2	Kr2	
33	10	Ao	
34	5	Ko	
35	3	K	Difficult. Partly superposed on 34.
36	3	Ky5	
37	1	K	
38	4	Ky0	
39	5	F5	
40	2	F	
41	3	Ky5	
42	2	K	
43	8	Ko	
44	6	F5	E.
45	8	F8	
46	1	Ma?	Difficult
47	2	G	E.
48	8	Mb	
49	6	Ky5	
50	6	F5	
51	7	F0	
52	4	Ky0	
53	10+	Ky5	Burned out
54	4	Ko	

28	+ 32°	2523	14	46.7	+ 32	30.7	6.7	✓
29	+ 32°	2524	14	47.9	+ 32	59.8	8.2	✓
30	+ 32°	2525	14	48.3	+ 32	36.7	7.5	✓
31	+ 32°	2526	14	48.3	+ 32	20.7	8.2	✓
32	+ 32°	2528	14	48.8	+ 32	0.7	8.7	✓
33	+ 32°	2531	14	50.0	+ 32	53.6	6.3	✓
34	+ 33°	2510	14	49.3	+ 33	24.9	7.5	✓
35	+ 33°	2511	14	49.4	+ 33	33.3	8.5	✓
36	+ 34°	2580	14	48.3	+ 34	12.1	8.6	✓
37	+ 34°	2579	14	48.1	+ 34	13.8	8.5	✓
38	+ 34°	2581	14	48.6	+ 34	41.4	7.9	✓
39	+ 35°	2625	14	48.6	+ 35	0.3	7.3	✓
40	+ 33°	2512	14	50.3	+ 33	11.1	9.0	✓
41	+ 33°	2524	14	54.4	+ 33	5.3	8.9	✓
42	+ 33°	2526	14	54.6	+ 33	32.2	8.8	✓
43	+ 33°	2533	14	56.6	+ 33	50.8	7.1	✓
44	+ 34°	2598	14	57.5	+ 34	8.4	8.2	✓
45	+ 32°	2536	14	54.4	+ 32	11.3	7.3	✓
46	+ 31°	2684	14	55.0	+ 31	56.8	8.0	✓
47	+ 31°	2685	14	56.2	+ 31	55.4	9.2	✓
48	+ 32°	2537	14	56.5	+ 32	15.2	6.7	✓
49	+ 31°	2619	14	22.2	+ 31	4.8	7.7	✓
50	+ 31°	2620	14	23.1	+ 31	38.8	7.7	✓
51	+ 31°	2621	14	23.2	+ 31	18.4	7.5	✓
52	+ 31°	2626	14	25.4	+ 31	22.7	8.5	✓
53	+ 31°	2628	14	25.6	+ 31	0.4	4.0	✓
54	+ 30°	2533	14	26.1	+ 30	52.7	8.2	✓

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I 27 5 74 13

Nr.	Int.	Class	Remark
55	1	K0	
56	2	ly	
57	1	K2	
58	10+	F0	
59	2	ly	
60	1	ly	
61	3	ly5	
62	5	ly0	
63	7	F2	
64	3	A3	
65	2	ly5	
66	3	ly0	
67	4	F0	
68	3	K5	
69	1	ly	
70	5	K0	
71	2	K0	
72	2	ly5	
73	7	ly0	
74	6	ly0	
75	7	F5	
76	4	M6	
77	4	F8	
78	2	K0	
79	3	ly0	
80	5	K0	
81	2	A2	

55	+31°	2632	14	28.0	+31	37.1	8.5	✓
56	+30°	2534	14	27.7	+30	27.6	8.8	✓
57	+30°	2535	14	28.0	+30	0.2	8.6	✓
58	+30°	2536	14	28.4	+30	22.8	5.0	✓
59	+29°	2550	14	27.4	+29	45.8	8.6	✓
60	+29°	2552	14	27.6	+29	29.5	8.9	✓
61	+29°	2553	14	27.9	+29	7.1	8.1	✓
62	+29°	2555	14	28.4	+29	1.3	8.0	✓
63	+28°	2348	14	30.1	+28	7.5	7.0	✓
64	+28°	2349	14	30.6	+28	28.1	8.4	✓
65	+28°	2350	14	30.7	+28	37.8	8.5	✓
66	+28°	2351	14	31.4	+28	47.4	8.4	✓
67	+28°	2352	14	32.5	+28	47.4	7.9	✓
68	+29°	2565	14	33.8	+29	2.4	8.2	✓
69	+29°	2562	14	32.1	+29	33.2	9.0	✓
70	+30°	2541	14	32.5	+30	39.4	7.7	✓
71	+31°	2638	14	32.6	+31	22.9	8.3	✓
72	+31°	2639	14	33.0	+31	44.3	8.5	✓
73	+31°	2642	14	34.1	+31	3.7	7.5	✓
74	+31°	2643	14	34.3	+31	9.0	7.7	✓
75	+31°	2644	14	34.6	+31	55.0	7.7	✓
76	+32°	2504	14	35.1	+32	10.6	8.0	✓
77	+32°	2505	14	36.0	+32	32.4	8.4	✓
78	+31°	2647	14	36.0	+31	46.4	8.5	✓
79	+31°	2648	14	37.2	+31	19.9	8.5	✓
80	+30°	2565	14	38.8	+30	53.7	7.3	✓
81	+31°	2651	14	38.9	+31	8.2	6.3	✓

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April 19, 1912

I 37 574

No.	Int.	Class	Remark
82	1	K	
83	2	fp0	
84	1	K	
85	1	fg	
86	3	K0	
87	4	f0	
88	4	f0	
89	9	f2	
90	4	f0	
91	2	fg5	
92	3	f	
93	3	f5	
94	3	f8	
95	5	f2	
96	1	K	
97	2	fg	
98	3	K0	
99	4	f8	
100	3	f	
101	9	A0	
102	7	A2	
103	6	fg5	E.
104	10	B8	E.
105	8	fg	E.
106	3	fg5	E.
107	7	Ma	E.
108	10	A2	

82	+31°	2656	14h	40.4	+31	15.0	8.2
83	+31°	2658	14	40.7	+31	23.4	8.5
84	+30°	2672	14	43.2	+30	31.2	9.0
85	+31°	2663	14	43.9	+31	9.9	8.9
86	+31°	2668	14	44.7	+31	2.7	8.3
87	+31°	2672	14	46.7	+31	48.5	8.3
88	+31°	2673	14	47.6	+31	33.1	8.5
89	+30°	2582	14	48.5	+30	39.3	6.8
90	+31°	2675	14	49.6	+31	14.0	8.3
91	+31°	2676	14	50.1	+31	43.0	8.4
92	+30°	2586	14	50.0	+30	28.0	8.3
93	+30°	2589	14	50.3	+30	26.0	8.7
94	+30°	2587	14	50.1	+30	3.2	8.3
95	+30°	2591	14	51.7	+30	3.2	8.0
96	+30°	2593	14	51.8	+30	52.2	8.7
97	+30°	2594	14	52.8	+30	42.7	8.6
98	+30°	2596	14	53.4	+30	26.7	7.9
99	+29°	2609	14	54.6	+29	9.3	8.0
100	+30°	2602	14	55.9	+30	58.3	9.0
101	+28°	2391	14	56.9	+28	50.7	7.0
102	+29°	2618	14	58.1	+29	37.2	7.8
103	+29°	2538	14	21.7	+29	55.4	7.2
104	+28°	2332	14	22.2	+28	56.0	7.0
105	+28°	2325	14	20.2	+28	18.7	8.0
106	+27°	2382	14	21.6	+27	14.1	8.0
107	+26°	2575	14	22.3	+26	29.9	7.0
108	+27°	2388	14	25.9	+27	19.9	6.2

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I 37 574 573

No.	Int.	Class	Remark
109	3	K0	
110	1	ly5	
111	5	F2	
112	3	ly5	
113	2	ly	
114	1	K	
115	6	ly0	
116	7	Bq	
117	1	K	
118	1	ly5	
119	1	ly	
120	10+	ly0	Burned out.
121	5	K0	
122	2	F5	
123	2	ly0	
124	3	F2	
125	10	A2	
126	3	F8	
127	4	ly5	
128	6	ly5	
129	5	ly5	
130	1	ly	
131	8	A0	
132	2	ly5	
133	1	K	
134	6	F8	
135	1	ly5	

109	+28°	2338	14	25.1	+28	26.4	8.3	✓
110	+27°	2396	14	29.7	+27	2.5	8.3	✓
111	+27°	2404	14	32.9	+27	26.4	8.2	✓
112	+28°	2356	14	34.2	+28	0.8	8.6	✓
113	+28°	2360	14	35.3	+28	24.6	8.6	✓
114	+29°	2565 6	14	34.0 ~~33.8~~	+29	36.6 ~~34~~	8.2	✓
115	+29°	2568	14	35.1	+29	41.7	7.8	✓
116	+29°	2570	14	36.6	+29	43.1	8.1	✓
117	+30°	2557	14	37.0	+30	19.2	8.6	✓
118	+29°	2575	14	39.1	+29	47.3	9.0	✓
119	+30°	2568	14	40.0	+30	7.8	8.8	✓
120	+27°	2417	14	38.7	+27	41.0	2.3	✓
121	+28°	2365	14	39.8	+28	7.6	8.0	✓
122	+28°	2366	14	40.1	+28	31.3	8.0	✓
123	+28°	2368	14	41.1	+28	50.0	8.4	✓
124	+28°	2370	14	41.7	+28	8.2	8.7	✓
125	+29°	2581	14	43.7	+29	12.8	6.2	✓
126	+30°	2577	14	45.7	+30	6.1	8.9	✓
127	+29°	2590	14	46.5	+29	51.3	8.3	✓
128	+29°	2592	14	47.0	+29	5.9	8.0	✓
129	+28°	2377	14	46.5	+28	7.7	8.0	✓
130	+27°	2426	14	46.1	+27	42.5	9.1	✓
131	+27°	2430	14	46.6	+27	3.5	7.8	✓
132	+27°	2435	14	48.4	+27	5.2	8.3	✓
133	+28°	2381	14	49.0	+28	9.6	8.6	✓
134	+27°	2438	14	51.9	+27	24.5	7.0	✓
135	+27°	2440	14	52.9	+27	51.7	8.8	✓

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April 19, 1912

I 37 57 14

No.	Int.	Class	Remark
136	5	Ko	
137	6	Ko	
138	10	Ko	E.
139	6	G	E.
140	5	F2	E.
141	7	A	E.
142	3	F	
143	7	F0	
144	10	Fa	
145	3	K5	
146	4	Ko	
147	7	Ko	
148	9	B9	
149	5	F5	
150	7	G	E.
151	5	Ko	E.
152	4	K	E.

Time 22.07

136	+27°	2442	14	53.7	+ 27	43.8	8.3 ✓
137	+27°	2446	14	57.6	+ 27	29.1	7.2 ✓
138	+27°	2447	14	58.2	+ 27	31.4	4.7 ✓
139	+26°	2646	14	57.5	+ 26	35.7	7.7 ✓
140	+25°	2802	14	29.4	+ 25	32.4	8.0 ✓
141	+25°	2804	14	30.4	+ 25	5.9	7.5 ✓
142	+26°	2590	14	33.9	+ 26	26.1	8.3 ✓
143	+26°	2592	14	35.4	+ 26	35.1	7.9 ✓
144	+27°	2413	14	37.0	+ 27	8.9	5.8 ✓
145	+26°	2598	14	40.1	+ 26	33.0	8.2 ✓
146	+26°	2603	14	41.5	+ 26	4.0	8.3 ✓
147	+25°	2839	14	42.9	+ 25	45.9	6.8 ✓
148	+25°	2841	14	43.5	+ 25	20.0	7.0 ✓
149	+25°	2850	14	49.8	+ 25	40.4	8.0 ✓
150	+26°	2853	14	51.0	+ 25	54.4	7.5 ✓
151	+25°	2855	14	51.3	+ 25	16.6	7.5 ✓
152	+26°	2856	14	52.5	+ 25	38.0	7.0 ✓

Identified by A.M.C. May 21, 1912

Checked by J.C.M. June 20, 1912

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Monday, April 21, 1913

B 10113 short disp.

Time: 22.44

No.	Int.	Class	Remark
1	5	K	E.
2	3	ly	E.
3	6	K	E.
4	4	K	E.
5	7	ly	E.
6	21	ly	Partly superposed on 5.
7	10	A5	E.
8	2	ly5	
9	4	ly	
10	8	A3	
11	3	F5	
12	5	ly5	
13	6	Ma	
14	9	A5	E.
15	3	F	E.
16	2	ly	E.
17	4	K	
18	2	ly	
19	1	ly	
20	6	B8	
21	2	ly5	
22	3	A	
23	5	K0	
24	3	K0	
25	4	A0	
26	1	ly	
27	3	F5	

1	−28°	490	1	28.6	−28	52.4	7.0	✓
2	−29°	513	1	28.8	−29	16.6	8.2	✓
3	−29°	508	1	28.3	−29	25.5	7.1	✓
4	−30°	513	1	27.6	−30	34.9	8.0	✓
5	−30°	529	1	29.2	−30	33.3	7.4	✓
6	−30°	530	1	29.3	−30	31.0	8.7	✓
7	−30°	540	1	30.4	−30	32.7	6.5	✓
8	−30°	541	1	30.4	−30	1.2	8.6	✓
9	−30°	549	1	31.3	−30	1.2	8.0	✓
10	−29°	542	1	33.5	−29	39.5	6.9	✓
11	−29°	553	1	36.7	−29	12.6	8.5	✓
12	−29°	566	1	39.3	−29	9.6	7.8	✓
13	−29°	564	1	39.2	−29	22.0	7.2	✓
14	−27°	595	1	40.2	−27	58.6	6.4	✓
15	−28°	559	1	41.2	−28	17.8	8.5	✓
16	−28°	562	1	41.6	−28	37.8	9.0	✓
17	−29°	583	1	41.7	−29	18.3	7.8	✓
18	−29°	582	1	41.7	−29	25.0	8.4	✓
19	−29°	584	1	41.8	−29	32.5	8.9	✓
20	−30°	615	1	42.0	−30	21.0	8.3	✓
21	−29°	589	1	43.0	−29	53.8	8.8	✓
22	−29°	599	1	43.9	−29	54.4	9.2	✓
23	−29°	602	1	44.3	−29	39.7	7.1	✓
24	−29°	605	1	44.8	−29	16.6	8.4	✓
25	−29°	613	1	45.5	−29	12.0	9.3	✓
26	−29°	618	1	46.0	−29	26.0	8.7	✓
27	−29°	627	1	47.0	−29	17.3	8.8	✓

cards made out

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April 21, 1912

B 15 113 short disps.

No.	Int.	Class	Remark
28	2	h_0	
29	6	f_2	
30	4	h_5	
31	2	k_0	B.
32	3	f_5	B.
33	7	k_0	
34	3	k_0	
35	4	h_0	
36	3	f_8	
37	3	k	B.
38	2	f	B.
39	3	f_0	
40	2	h	
41	6	A_2	
42	2	f_8	
43	3	h_5	
44	4	f_5	
45	2	k_0	
46	10	h_0	
47	1	h	
48	10	A_0	
49	2	h_0	
50	3	h_5	Another star superposed.
51	2	h	
52	4	h_5	
53	9	h_5	
54	2	h	B.

28	−28°	590	1	47.3	−28	41.3	9.1	✓	
29	−28°	584	1	46.5	−28	22.2	8.0	✓	
30	−28°	599	1	49.9	−28	19.2	8.4	✓	
31	−28°	609	1	50.9	−28	9.8	8.0	✓	
32	−28°	613	1	51.6	−28	20.8	8.7	✓	
33	−29°	646	1	50.2	−29	43.4	7.4	✓	
34	−29°	650	1	50.9	−29	28.5	8.1	✓	
35	−29°	664	1	52.2	−29	27.2	7.8	✓	
36	−29°	665	1	52.4	−29	25.5	8.1	✓	
37	−28°	623	1	53.8	−28	32.8	8.1	✓	
38	−28°	627	1	54.3	−28	46.8	8.9	✓	
39	−29°	676	1	54.4	−29	40.0	8.4	✓	
40	−30°	697	1	54.7	−30	7.2	9.1	✓	
41	−30°	693	1	54.6	−30	28.2	8.1	✓	
42	−30°	697	1	54.8	−30	22.7	9.2	✓	
43	−30°	704	1	55.7	−30	6.8	8.2	✓	
44	−30°	818	1	55.0	−31	1.7	8.6		
		~~695~~	1	~~54.6~~	~~−30~~	~~50.3~~	~~9.0~~	✓	
45	−30°	701 818	1	55.6	−30	46.2 ~~1.7~~	8.2	✓	
46	−30°	703	1	55.7	−30	36.5	5.5	✓	
47	−30°	712	1	56.7	−30	28.7	9.1	✓	
48	−30°	714	1	56.9	−30	16.1	6.7	✓	
49	−30°	715	1	57.1	−30	25.5	8.8	✓	
50	−30°	716	1	57.2	−30	55.2	8.1	✓	−30° 717. superposed.
51	−31°	837	1	58.8	−31	0.7	8.7	✓	
52	−32°	614	1	29.4	−32	2.2	8.3	✓	
53	−32°	613	1	29.1	−32	32.2	6.4	✓	
54	−33°	565	1	28.4	−33	11.2	9.1	✓	

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April 21, 1919

B 1511.3 chart disp.

No.	Int.	Class	Remark
55	2	ly	
56	6	ly5	
57	2	ly5	
58	8	ly0	
59	2	ly0	
60	3	ly5	
61	2	ly0	
62	5	ly0	
63	2	ly0	
64	4	ly0	
65	2	ly	
66	3	ly0	
67	5	ly5	
68	10	ly5	
69	5	ly5	
70	3	ly5	
71	8	70	
72	3	75	
73	5	03	
74	2	ly5	
75	2	ly0	
76	1	ly	
77	1	ly5	
78	8	70	
79	8	78	
80	5	75	
81	3	ly0	

55	-32°	618	1	29.8	-32	49.5	9.4	✓
56	-32°	623	1	31.1	-32	56.8	7.0	✓
57	-32°	632	1	32.2	-32	42.0	9.0	✓
58	-32°	639	1	33.0	-32	48.9	7.5	✓
59	-32°	642	1	33.7	-32	43.7	9.4	✓
60	-32°	651	1	34.7	-32	8.8	8.5	✓
61	-32°	657	1	35.2	-32	8.4	9.0	✓
62	-32°	655	1	34.9	-32	20.7	8.5	✓
63	-32°	660	1	35.3	-32	25.1	9.1	✓
64	-32°	662	1	35.8	-32	26.1	8.5	✓
65	-32°	658	1	35.2	-32	32.5	9.4	✓
66	-32°	664	1	36.2	-32	47.7	9.3	✓
67	-32°	665	1	36.4	-32	43.7	8.5	✓
68	-32°	666	1	36.5	-32	57.7	5.6	✓
69	-32°	677	1	38.5	-32	24.1	8.5	✓
70	-32°	680	1	38.7	-32	14.7	8.5	✓
71	-32°	685	1	39.4	-32	0.8	7.9	✓
72	-32°	686	1	39.6	-32	30.7	9.0	✓
73	-31°	712	1	38.2	-31	21.4	7.8	✓
74	-30°	591	1	38.1	-30	26.3	8.3	✓
75	-30°	608	1	41.1	-30	49.1	8.9	✓
76	-30°	614	1	41.6	-30	40.0	9.3	✓
77	-31°	738	1	41.4	-31	59.8	8.3	✓
78	-31°	753	1	43.7	-31	41.4	6.5	✓
79	-31°	767	1	46.6	-31	31.7	7.0	✓
80	-30°	641	1	46.9	-30	54.3	8.4	✓
81	-30°	655	1	48.2	-30	54.6	8.2	✓

cards inserted out

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April 21, 1913

B 15113 short disp.

No.	Int.	Class	Remark
82	2	f	
83	2	fg0	
84	1	fg	
85	2	f5	
86	2	f2	
87	2	fg	
88	3	f8	
89	7	k0	
90	9	kg5	
91	2	k	
92	2	ka	
93	3	kg0	
94	2	kg	
95	4	kg0	
96	6	k5	
97	2	k	Partly superposed on 96.
98	2	kg	
99	7	kg0	
100	5	kg0	
101	4	f5	
102	2	ka	
103	2	kg	
104	5	kg5	
105	2	kg	
106	2	ka	
107	1	kg5	
108	5	kg5	

82	-30°	653	1	47.9	-30	2.2	9.2	✓
83	-30°	671	1	50.5	-30	26.5	8.6	✓
84	-30°	677	1	51.3	-30	2.2	9.0	✓
85	-30°	681	1	51.8	-30	4.1	9.0	✓
86	-30°	685	1	52.6	-30	49.0	9.0	✓
87	-31°	795	1	50.4	-31	33.4	8.5	✓
88	-31°	798	1	50.9	-31	44.3	8.6	✓
89	-31°	800	1	51.5	-31	41.4	7.2	✓
90	-32°	750	1	51.0	-32	45.0	6.6	✓
91	-33°	666	1	50.8	-33	5.5	8.8	✓
92	-33°	680	1	52.6	-33	20.2	8.4	✓
93	-33°	677	1	52.5	-33	7.0	8.3	✓
94	-33°	678	1	52.6	-33	0.6	9.3	✓
95	-32°	757	1	52.7	-32	36.3	9.0	✓
96	-32°	762	1	53.2	-32	53.0	8.5	✓
97	-32°	763	1	53.2	-32	50.0	8.7	✓
98	-32°	771	1	54.3	-32	38.4	9.1	✓
99	-32°	773	1	54.8	-32	41.6	7.9	✓
100	-32°	772	1	54.4	-32	21.2	8.3	✓
101	-32°	774	1	54.9	-32	26.7	8.5	✓
102	-31°	827	1	56.8	-31	58.9	8.8	✓
103	-31°	824	1	56.3	-31	36.0	8.9	✓
104	-31°	833	1	57.9	-31	32.0	8.2	✓
105	-32°	787	1	58.5	-32	9.7	9.0	✓
106	-32°	789	1	59.5	-32	24.2	9.0	✓
107	-33°	707	1	57.4	-33	5.0	8.6	✓
108	-33°	714	1	58.5	-33	6.6	7.8	✓

cards made out

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April 21, 1912

B 1511 3 short disp.

No	Int.	Class	Remark
109	2	ly	
110	2	ly0	Partly superposed on 109
111	3	ly5	
112	3	7e	
113	3	1e0	
114	2	ly	
115	1	75	
116	5	ly5	E.
117	3	75	
118	4	ly0	
119	8	ly5	
120	1	ly5	
121	2	ly5	
122	7	ly5	
123	6	ly5	
124	4	a	
125	4	ly5	
126	6	1e0	
127	4	ly	
128	4	ly5	
129	3	1e0	
130	3	ly5	
131	3	ly5	
132	3	ly5	
133	3	7e	
134	3	a	
135	5	75	

109	-33°	715	1	58.7	-33	8.6	9.4	✓
110	-33°	716	1	58.8	-33	5.3	9.1	✓
111	-33°	724	2	0.6	-33	19.6	8.9	✓
112	-33°	726	2	0.8	-33	5.6	8.5	✓
113	-32°	800	2	1.9	-32	55.3	8.8	✓
114	-32°	798	2	1.3	-32	30.7	9.0	✓
115	-32°	797	2	0.8	-32	19.2	9.3	✓
116	-34°	624	1	30.7	-34	1.0	8.1	✓
117	-33°	584	1	32.4	-33	38.2	9.1	✓
118	-34°	645	1	33.4	-34	5.8	8.5	✓
119	-34°	650	1	33.7	-34	12.6	6.6	✓
120	-34°	658	1	33.8	-34	9.2 12.6	9.3 6.6	✓
121	-34°	654	1	34.1	-34	5.6	9.0	✓
122	-34°	661	1	35.6	-34	2.1	7.3	✓
123	-35°	586	1	34.7	-35	6.6	7.5	✓
124	-35°	594	1	35.5	-35	13.5	8.7	✓
125	-35°	597	1	36.4	-35	28.1	7.9	✓
126	-35°	614	1	39.0	-35	2.2	6.8	✓
127	-34°	682	1	38.9	-34	28.2	8.3	✓
128	-33°	606	1	39.8	-33	27.4	8.3	✓
129	-33°	619	1	41.7	-33	19.4	8.4	✓
130	-33°	627	1	43.3	-33	30.9	8.4	✓
131	-33°	630	1	44.1	-33	45.3	8.8	✓
132	-34°	704	1	43.2	-34	14.5	8.3	✓
133	-34°	703	1	43.1	-34	51.0	8.7	✓
134	-34°	705	1	43.6	-34	54.8	9.0	✓
135	-35°	640	1	44.1	-35	4.8	8.0	✓

cards made out

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April 21, 1912.

B 15113 short disps.

No.	Int.	Class	Remark
136	2	f8	
137	3	fp5	
138	4	f2	
139	3	fp0	
140	5	As	Pigeon of 16 not clearly seen.
141	2	fp5	
142	2	fp	
143	8	As	
144	7	A2	
145	6	f5	
146	4	fp0	
147	3	f2	
148	7	f8	
149	7	160	
150	7	f0	
151	2	fp	
152	2	f0	
153	2	f8	
154	5	160	
155	8	f0	
156	2	fp	
157	3	fp0	
158	3	f00	
159	3	fp0	
160	3	fp0	
161	9	fp5	
162	2	fp5	

136	-34°	7.07	1	43.9	-34	37.9	9.5	✓
137	-34°	7.12	1	45.5	-34	15.8	8.9	✓
138	-33°	6.37	1	45.4	-33	54.0	9.0	✓
139	-33°	6.36	1	45.4	-33	15.0	9.0	✓
140	-32°	7.20	1	45.3	-32	51.7	8.5	✓
141	-33°	6.23	1	43.0	-33	13.0	9.1	✓
142	-33°	6.25	1	43.0	-33	5.0	9.1	✓
143	-33°	6.47	1	46.6	-33	9.4	8.2	✓
144	-33°	6.51	1	47.4	-33	23.0	8.0	✓
145	-33°	6.53	1	47.6	-33	26.4	8.1	✓
146	-33°	6.50	1	47.2	-33	51.5	8.9	✓
147	-34°	7.21	1	47.8	-34	3.0	9.5	✓
148	-33°	6.52	1	47.5	-33	55.5	7.8	✓
149	-34°	7.24	1	47.9	-34	10.5	7.5	✓
150	-34°	7.20	1	47.1	-34	48.9	8.0	✓
151	-34°	7.22	1	47.5	-34	54.2	9.0	✓
152	-34°	7.28	1	48.5	-34	23.5	8.7	✓
153	-34°	7.34	1	49.3	-34	9.0	9.5	✓
154	-34°	7.44	1	50.9	-34	21.0	8.0	✓
155	-34°	7.48	1	51.6	-34	33.4	7.7	✓
156	-34°	7.47	1	51.4	-34	18.5	9.5	✓
157	-34°	7.49	1	51.6	-34	17.4	9.0	✓
158	-33°	6.69	1	51.1	-33	35.1	8.1	✓
159	-34°	7.52	1	52.4	-34	1.0	9.0	✓
160	-34°	7.56	1	53.0	-34	1.0	9.4	✓
161	-33°	6.82	1	52.9	-33	40.5	6.5	✓
162	-33°	6.86	1	53.1	-33	50.0	9.3	✓

Could made out

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April 21, 1912
B 15113 short disp.

No.	Int.	Class	Remarks
163	5	fγ5	
164	2	fγ	
165	3	fγ0	
166	3	fγ0	
167	2	fγ	
168	1	Ñ2	
169	5	fγ0	
170	1	fγ5	
171	2	fγ	
172	4	fγ5	
173	4	Ñ5	
174	6	Ñ5	
175	4	Ñ	E.
176	6	fγ	E.
177	3	Ñ5	
178	6	fγ5	
179	2	Ñ8	
180	3	Ñ0	E.
181	5	fγ	E.
182	6	Ñ0	
183	8	A0	
184	3	fγ5	Focus poor.
185	1	Ñ	
186	8	Ñ0	
187			
188			
189			

June 23.26

cont. in 129, 178

163	-33°	690	1	54.1	-33	42.5	9.0	J
164	-34°	759	1	53.9	-34	6.4	9.4	J
165	-33°	695	1	54.6	-33	55.4	9.2	J
166	-33°	702	1	56.0	-33	30.0	9.3	J
167	-33°	701	1	56.0	-33	37.4	9.5	J
168	-34°	778	1	57.0	-34	4.4	9.0	J
169	-34°	777	1	56.9	-34	13.5	8.5	J
170	-33°	704	1	56.8	-33	56.2	9.2	J
171	-33°	717	1	58.8	-33	45.5	9.5	J
172	-33°	718	1	59.2	-33	41.0	8.6	J
173	-34°	796	2	0.7	-34	29.3	8.6	J
174	-34°	805	2	2.2	-34	2.5	8.4	J
175	-35°	852	1	29.1	-35	58.6	7.7	J
176	-36°	695	1	44.5	-36	9.6	8.1	J
177	-35°	649	1	47.1	-35	41.3	9.0	J
178	-35°	650	1	47.3	-35	28.4	7.7	J
179	-35°	651	1	47.5	-35	15.9	9.3	J
180	-36°	730	1	49.7	-36	4.3	8.3	J
181	-35°	683	1	52.5	-35	43.6	8.5	J
182	-34°	753	1	52.5	-34	42.9	8.5	J
183	-35°	693	1	54.2	-35	3.0	8.5	J
184	-35°	702	1	55.3	-35	1.4	8.7	J
185	-35°	694	1	54.2	-35	22.4	8.5	J
186	-36°	760	1	54.3	-36	2.3	7.1	J

Identified by J. C. M. Sept. 21, 1912.
Checked by AMC. Oct 7, 1912.
cards made out by Mr. C. W.

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Monday, April 21, 1913

Time: 23.28

B 23790 short disp.

No.	Int.	Class	Remark
1	6	K0	E.
2	4	K	E.
3	5	K2	
4	7	K0	
5	9	G5	
6	8	K5	
7	10+	B G	~~Burned out~~
8	4	F0	
9	2	G5	
10	4	F0	
11	7	K0	
12	4	K0	
13	3	M	
14	2	G5	
15	4	K	Uncertain
16	4	G5	
17	9	A5	
18	2	K2	
19	5	A2	
20	8	K0	
21	15	G5	
22	1	Ma	Confirms.
23	3	G	
24	6	K2	
25	2	K2	
26	4	K0	
27	4	G0	

1	−27°	713	1	56.9	−27	20.9	7.6	∧ ∨
2	−28°	634	1	55.4	−28	12.3	8.2	∧ ∨
3	−28°	643	1	56.7	−28	57.1	8.0	∧ ∨
4	−28°	653	1	59.3	−28	57.7	7.7	~~∧ ∨ 652 mag. 7.4 short spect.~~
5	−28°	656	1	59.6	−28	59.1	7.3	∧ ∨
6	−29°	713	1	59.6	−29	8.8	7.2	∧ ∨
7	−29°	706	1	58.9	−29	53.8	4.9	∧ ∨
8	−29°	718	2	0.6	−29	49.6	8.6	∧ ∨
9	−30°	737	2	1.5	−30	8.1	8.8	∧ ∨
10	−29°	730	2	2.0	−29	55.9	8.8	∧ ∨
11	−29°	728	2	1.8	−29	30.0	7.7	∧ ∨
12	−29°	738	2	2.6	−29	19.7	8.3	∧ ∨
13	−28°	659	2	0.0	−28	42.3	8.1	∧ ∨
14	−28°	661	2	0.3	−28	57.4	8.5	∧ ∨
15	−28°	664	2	0.5	−28	51.1	9.1	∧ ∨
16	−28°	670	2	1.6	−28	24.5	8.4	∧ ∨
17	−28°	675	2	2.5	−28	10.3	7.0	∧ ∨
18	−28°	685	2	3.9	−28	22.5	8.5	∧ ∨
19	−28°	691	2	4.8	−28	24.5	8.6	∧ ∨
20	−28°	694	2	5.1	−28	48.7	7.2	∧ ∨
21	−29°	753	2	4.2	−29	11.3	8.7	∧ ∨
22	−29°	743	2	3.0	−29	9.0	8.7	∧ ∨
23	−29°	751	2	3.8	−29	30.5	9.3	∧ ∨
24	−29°	752	2	4.1	−29	35.8	7.6	∧ ∨
25	−29°	761	2	5.7	−29	45.8	8.7	∧ ∨
26	−29°	767	2	6.5	−29	32.5	8.4	∧ ∨
27	−29°	770	2	6.7	−29	35.5	8.9	∧ ∨

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April 21, 1913

B 32 790 short disp.

No.	Int.	Class	Remark
28	7	Ao	
29	3	Ko	
30	4	Ko	
31	6	Ko	
32	8	F2	O.
33	3	g5	
34	2	K	
35	7	Ko	
36	7	F5	
37	6	Ko	
38	6	F5	
39	4	g5	
40	1	K	
41	4	K2	
42	9	F5	
43	5	Ko	
44	4	Ko	
45	3	go	
46	2	g5	
47	7	g5	
48	4	Ko	
49	3	g	
50	2	g5	
51	2	K2	
52	8	go	
53	8	A	
54	10	g	

28	− 29°	784	2	7.8	− 29	33.5	9.0	^ J
29	− 29°	785	2	7.9	− 29	16.6	8.8	^ J
30	− 27°	752	2	6.4	− 27	48.7	8.2	^ J
31	− 28°	698	2	6.6	− 28	6.3	7.6	^ J
32	− 28°	712	2	8.7	− 28	29.2	7.4	^ J
33	− 29°	803	2	9.4	− 29	46.1	8.7	^ J
34	− 29°	805	2	10.2	− 29	14.3	8.8	^ J
35	− 29°	807	2	10.6	− 29	9.7	7.8	^ J
36	− 28°	729	2	12.4	− 28	57.4	7.7	^ J
37	− 29°	825	2	13.5	− 29	30.0	7.9	^ J
38	− 30°	815	2	13.1	− 30	14.7	8.0	^ J
39	− 30°	811	2	12.5	− 30	24.4	8.6	^ J
40	− 31°	914	2	11.7	− 31	1.0	8.5	^ J
41	− 31°	922	2	12.4	− 31	2.7	8.0	^ J
42	− 31°	920	2	12.0	− 31	17.8	7.4	^ J
43	− 31°	926	2	12.8	− 31	22.5	7.7	^ J
44	− 31°	924	2	12.6	− 31	56.9	7.5	^ J
45	− 32°	853	2	14.3	− 32	43.3	8.1	^ J
46	− 32°	851	2	14.2	− 32	55.8	8.9	^ J
47	− 33°	796	2	15.0	− 33	1.7	8.0	^ J
48	− 31°	943	2	15.9	− 31	31.1	8.3	^ J
49	− 31°	942	2	15.9	− 31	6.5	8.8	^ J
50	− 30°	828	2	15.0	− 30	44.5	8.5	^ J
51	− 30°	839	2	16.1	− 30	10.7	8.7	^ J
52	− 29°	845	2	16.5	− 29	54.8	7.8	^ J
53	− 30°	850	2	17.5	− 30	11.6	8.3	^ J
54	− 30°	852	2	17.8	− 30	26.4	7.5	^ J

cards made out

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April 21, 1922

Bad 90 short disp.

No	Fut.	Class	Remark
55	2	160	
56	2	165	
57	7	160	
58	2	165	
59	5	160	
60	7	175	
61	1	175	
62	3	172	
63	2	165	
64	4	165	
65	4	160	
66	7	172	
67	7	175	
68	1	169	
69	4	178	
70	4	165	
71	5	160	
72	2	165	
73	4	160	
74	2	169	
75	2	175	
76	3	150	
77	8	160	
78	7	165	
79	2	175	
80	1	169	Difficult
81	2	150	

55	−30°	848	2	17.4	− 30	28.8	8.5	∧ ∨
56	− 31°	949	2	16.8	− 31	37.4	8.7	∧ ∨
57	− 31°	953	2	17.5	− 31	57.9	7.5	∧ ∨
58	− 32°	866	2	17.3	− 32	38.7	8.8	∧ ∨
59	− 32°	867	2	17.5	− 32	53.8	8.5	∧ ∨
60	− 33°	806	2	17.0	− 33	31.4	8.3	∧ ∨
61	− 31°	837	2	58.8	− 31	0.7	8.7	∧ ∨
62	− 30°	728	2	0.0	− 30	54.2	8.6	∧ ∨
63	− 31°	843	1	59.9	− 31	11.6	8.6	∧ ∨
64	− 31°	848	2	1.3	− 31	39.8	8.3	∧ ∨
65	− 31°	856	2	2.4	− 31	5.6	8.6	∧ ∨
66	− 31°	865	2	3.9	− 31	4.6	8.0	∧ ∨
67	− 30°	755	2	4.5	− 30	35.2	8.5	∧ ∨
68	− 30°	761	2	5.4	− 30	52.7	9.1	∧ ∨
69	− 30°	766	2	5.6	− 30	48.8	9.0	∧ ∨ image 9.6 −30° 764 improved
70	− 31°	868	2	4.2	− 31	20.7	8.2	∧ ∨
71	− 31°	871	2	5.0	− 31	23.0	7.9	∧ ∨
72	− 31°	867	2	4.0	− 31	33.4	8.7	∧ ∨
73	− 31°	869	2	4.6	− 31	39.4	8.1	∧ ∨
74	− 31°	855	2	2.3	− 31	45.9	9.0	∧ ∨
75	− 31°	861	2	3.2	− 31	49.9	8.5	∧ ∨
76	− 32°	805	2	2.7	− 32	38.0	9.0	∧ ∨
77	− 32°	808	2	3.5	− 32	20.2	7.0	∧ ∨
78	− 32°	809	2	3.8	− 32	24.2	7.3	∧ ∨
79	− 32°	812	2	4.0	− 32	17.7	9.0	∧ ∨
80	− 32°	813	2	4.2	− 32	11.2	9.0	∧ ∨
81	− 32°	815	2	4.9	− 32	20.2	9.0	∧ ∨

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April 21, 1910

B 83 790 slant diffs.

No.	Int.	Class	Remark
82	7	fg5	
83	5	fg0	The rank following of two.
84	5	f0	
85	3	fN0	
86	10+	a	
87	3	a	
88	2	a	
89	1	fg	
90	2	fN5	
91	2	fg0	The n. for. of two
92	7	fg5	
93	1	fN5	
94	1	fg	
95	8	fN0	
96	1	fN	
97	2	fg5	
98	5	fN5	
99	5	fN0	
Time 23.50	100	5	fg0

Cent B. 129, 174

82	−32°	817	2	5.4	−32	39.0	8.0	∧ ∨
83	−32°	823	2	6.6	−32	52.3	8.0	∧ ∨
84	−32°	822	2	6.6	−32	54.8	8.5	∧ ∨
85	−31°	877	2	6.2	−31	59.4	8.5	∧ ∨
86	−31°	882	2	7.4	−31	18.6	5.4	∧ ∨
87	−30°	787	2	8.2	−30	27.8	9.0	∧ ∨
88	−31°	902	2	9.9	−31	27.5	9.1	∧ ∨
89	−31°	884	2	8.1	−31	35.4	9.0	∧ ∨
90	−31°	791	2	8.9	−31	53.9	9.0	∧ ∨
91	−32°	831	2	8.9	−32	46.3	9.0	∧ ∨
92	−33°	765	2	9.8	−33	3.1	8.3	∧ ∨
93	−32°	834	2	9.8	−32	41.3	89	∧ ∨
94	−32°	837	2	10.4	−32	31.9	9.0	∧ ∨
95	−33°	756	2	8.1	−33	55.1	7.0	∧ ∨
96	−33°	746	2	6.8	−33	27.6	8.9	∧ ∨
97	−34°	836	2	9.3	−34	0.2	9.4	∧ ∨
98	−34°	840	2	10.1	−34	20.9	8.3	∧ ∨
99	−34°	842	2	10.4	−34	20.4	8.0	∧ ∨
100	−33°	773	2	11.5	−33	34.5	8.5	∧ ∨
101								
102								
103								

Identified by ANC. Aug. 30, 1912
Checked Sept. 13 1912. H.D.W.
Cards made out by M. C. W.

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Tuesday, April 22, 1912

Time: 22.10

B 4068 short disp.

No.	Int.	Class	Remark
1	7	A2	E.
2	10	A5	E.
3	3	K0	
4	9	F0	
5	2	K2	
6	4	K0	
7	2	K0	
8	4	F8	
9	5	G0	
10	3	G0	
11	3	F5	
12	7	K0	
13	2	G0	
14	6	F8	
15	2	G5	
16	3	G0	
17	6	K0	
18	2	G0	
19	2	F5	
20	4	G5	
21	3	G0	
22	3	G	Another star superposed ?
23	6	K0	
24	7	F8	
25	7	K0	
26	1	K	
27	2	G0	

1	− 36°	737	1	53.5	− 36	51.2	7.5	∧ ∫
2	− 36°	745	1	52.0	− 36	40.7	7.0	∧ ∫
3	− 36°	756	1	53.9	− 36	20.7	8.7	∧ ∫
4	− 36°	760	1	54.3	− 36	2.3	7.1	∧ ∫
5	− 35°	694	1	54.2	− 35	22.4	8.5	∧ ∫
6	− 35°	702	1	55.3	− 35	1.4	8.7	∧ ∫
7	− 35°	707	1	56.3	− 35	49.3	8.7	∧ ∫
8	− 35°	713	1	56.9	− 35	36.8	8.7	∧ ∨
9	− 36°	762	1	~~57.5~~ 55.5	− 36	15.9	8.5	∧ ∨
10	− 36°	765	1	~~55.2~~ 56.2	− 36	20.9	8.7	∧ ∫
11	− 35°	718	1	57.8	− 35	52.2	8.8	∧ ∫
12	− 35°	724	1	59.3	− 35	52.2	7.5	∧ ∨
13	− 34°	792	2	0.2	− 34	33.4	9.5	∧ ∫
14	− 34°	796	2	0.7	− 34	29.3	8.6	∧ ∨
15	− 34°	799	2	1.1	− 34	28.2	9.3	∧ ∫
16	− 35°	732	2	1.1	− 35	25.6	9.0	∧ ∫
17	− 35°	739	2	1.6	− 35	21.0	7.7	∧ ∫
18	− 35°	736	2	1.4	− 35	51.4	8.8	∧ ∨
19	− 35°	737	2	1.5	− 35	44.3	9.3	∧ ∨
20	− 35°	741	2	2.1	− 35	51.9	8.7	∧ ∫
21	− 36°	791	2	1.4	− 36	14.9	9.3	∧ ∫
22	− 36°	800	2	2.5	− 36	12.1	9.3	∧ ∫
23	− 36°	807	2	3.5	− 36	25.6	7.7	∧ ∫
24	− 36°	808	2	3.6	− 36	22.9	8.0	∧ ∫
25	− 36°	813	2	5.2	− 36	6.1	7.3	∧ ∫
26	− 36°	816	2	5.7	− 36	15.4	9.1	∧ ∨
27	− 36°	820	2	6.4	− 36	2.1	8.9	∧ ∫

Cards made out

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April 22, 1912

B 41068 short disp.

No.	Int	Class	Remark
28	2	fp0	
29	13	A0	
30	18	F0	
31	3	F8	
32	5	F2	
33	8	F5	
34	7	F0	
35	4	F0	The s.f. of two.
36	9	F5	
37	3	F	Focus poor.
38	10	fg5	
39	20	F6	
40	7	fg5	
41	4	F0	
42	8	F0	
43	3	F0	
44	2	fp0	
45	6	F0	
46	3	F8	
47	4	fg0	
48	4	fg0	
49	10	A3	
50	4	fg5	
51	4	fg0	
52	9	F8	
53	10+	A	Burned out.
54	3	K	E.

28	- 36°	822	2	6.9	- 36	0.5	8.7	∧∨
29	- 36°	828	2	7.7	- 36	11.0	8.7	∧∪
30	- 36°	822	2	8.0	- 36	39.4	7.5	∧∨
31	- 36°	844	2	9.3	- 36	5.8	8.9	∧∪
32	- 35°	779	2	9.1	- 35	45.4	8.5	∧∪
33	- 35°	782	2	9.8	- 35	42.0	7.7	∧∪
34	- 36°	847	2	9.9	- 36	55.2	7.7	∧∨
35	- 36°	831	2	8.0	- 36	59.8	8.2	∧∪
36	- 37°	862	2	10.8	- 37	3.1	7.3	∧∫
37	- 37°	865	2	11.6	- 37	2.4	9.2	∧∪
38	- 36°	859	2	12.0	- 36	34.1	6.7	∧∨
39	- 36°	868	2	13.1	- 36	20.1	9.0	∧∪
40	- 36°	874	2	14.5	- 36	0.8	8.0	∧∪
41	- 35°	869	2	15.2	- 35	41.5	8.4	∧∫
42	- 36°	893	2	16.9	- 36	40.0	7.7	∧∪
43	- 35°	812	2	16.4	- 35	24.6	8.7	∧∫
44	- 35°	816	2	16.8	- 35	5.3	9.3	∧∪
45	- 34°	882	2	18.1	- 34	39.3	8.6	∧∫
46	- 34°	885	2	18.7	- 34	40.8	9.3	∧∫
47	- 35°	830	2	19.4	- 35	20.6	8.5	∧∫
48	- 35°	833	2	19.8	- 35	7.7	8.5	∧∫
49	- 34°	892	2	20.2	- 34	36.7	7.8	∧∨
50	- 34°	900	2	21.2	- 34	10.4	8.7	∧∫
51	- 34°	901	2	21.4	- 34	18.4	9.5	∧∪
52	- 34°	903	2	22.4	- 34	27.4	8.0	∧∫
53	- 34°	905	2	22.8	- 34	22.3	5.2	∧∨
54	- 35°	853	2	23.2	- 35	20.0	9.0	∧∨

cards made out

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April 23, 1912

B 44 068 shot disp.

No.	Frt.	Class	Remark
55	3	fg5	
56	6	F5	
57	6	K0	
58	2	fg	
59	7	F8	
60	4	A5	Difficult
61	5	K0	
62	2	K	
63	9	K0	
64	6	F8	
65	5	K0	
66	6	fg5	
67	6	F8	
68	3	F8	
69	2	fg	
70	7	Ma	
71	2	fg	
72	3	fg5	
73	2	fg0	
74	7	F5	
75	5	fg0	
76	6	fg5	
77	5	fg0	
78	3	K0	
79	3	fg5	
80	2	fg	
81	2	fg5	

55	- 35°	846	2	21.0	- 35	15.7	9.1 ∧ ⌊
56	- 36°	915	2	21.3	- 36	15.4	8.5 ∧ ∨
57	- 36°	908	2	19.8	- 36	27.1	7.7 ∧ ∨
58	- 34°	795	2	0.5	- 34	12.4	9.5 ∧ ⌊
59	- 34°	805	2	2.2	- 34	2.5	8.4 ∧ ⌊
60	- 34°	812	2	2.8	- 34	35.2	9.0 ∧ ∨
61	- 34°	824	2	6.1	- 34	32.3	8.0 ∧ ⌋
62	- 34°	823	2	5.9	- 34	52.7	9.0 ∧ ⌋
63	- 35°	767	2	7.5	- 35	8.3	7.3 ∧ ∨
64	- 34°	835	2	9.0	- 34	54.4	8.7 ∧ ⌊
65	- 34°	840	2	10.1	- 34	20.9	8.3 ∧ ⌋
66	- 34°	842	2	10.4	- 34	20.4	8.0 ∧ ⌋
67	- 35°	795	2	11.4	- 35	33.3	8.5 ∧ ⌊
68	- 35°	800	2	13.0	- 35	7.9	8.7 ∧ ⌊
69	- 34°	856	2	13.9	- 34	39.7	9.1 ∧ ∨
70	- 34°	858	2	14.3	- 34	11.3	7.9 ∧ ∨
71	- 34°	861	2	15.3	- 34	30.3	9.3 ∧ ⌋
72	- 34°	864	2	15.7	- 34	27.9	8.7 ∧ ∨
73	- 33°	800	2	15.8	- 33	40.1	9.6 ∧ ∨
74	- 33°	807	2	17.0	- 33	31.4	8.3 ∧ ⌋
75	- 34°	789	2	19.4	- 34	3.4	8.7 ∧ ⌋
76	- 33°	823	2	20.3	- 33	44.9	8.6 ∧ ⌊
77	- 33°	822	2	20.3	- 33	23.4	8.5 ∧ ⌊
78	- 33°	820	2	20.1	- 33	17.0	8.6 ∧ ⌋
79	- 33°	829	2	21.9	- 33	51.9	9.0 ∧ ∨
80	- 33°	832	2	22.2	- 33	35.4	9.3 ∧ ⌋
81	- 33°	840	2	23.3	- 33	29.4	8.7 ∧ ∨

Cards made out

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April 22, 1912

B41068 short disp.

No	Int.	Class	Remark
82	4	ly5	
83	6	K2	
84	4	Ma	
85	3	K0	
86	4	K0	
87	2	ly5	Difficult
88	2	ly	
89	2	ly	
90	2	ly0	
91	2	ly	
Time 22.39 92	1	ly	
93			
94			

cmb. in 131, 74

82	−32°	878	2	20.2	−32	21.7	8.3 ∧ J
83	−32°	883	2	21.4	−32	5.6	8.0 ∧ J
84	−31°	1010	2	25.2	−31	50.2	8.0 ∧ J
85	−31°	876	2	6.1	−31	55.9	8.6 ∧ J
86	−31°	877	2	6.2	−31	59.4	8.5 ∧ J
87	−32°	830	2	8.7	−32	7.7	9.3 ∧ J
88	−32°	841	2	11.2	−32	0.9	9.0 ∧ J
89	−31°	925	2	12.7	−31	39.8	8.8 ∧ J
90	−30°	793	2	9.6	−30	53.2	8.8 ∧ J
91	−30°	797	2	10.5	−30	58.7	9.0 ∧ J
92	−30°	794	2	9.8	−30	39.1	9.1 ∧ J

Identified by ANL Aug. 29, 1912

Checked Aug. 31 1912. H.D.W.

cards made out by M. C. W.

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Tuesday, April 23, 1918

Time 22.30

I 377 29

No.	Int.	Class	Remark
1	5	Ao	
2	7	Fz	
3	9	Ko	
4	3	F8	
5	6	Ko	
6	2	Gy5	
7	2	Ko	
8	5	Ao	
9	4	Gy	E.
10	5	Gy5	E.
11	5	F8	E.
12	4	Ko	
13	6	Fz	
14	3	Gy	E.
15	7	F0	
16	5	Ao	
17	8	F	E.
18	4	K5	
19	8	Ko	
20	3	Mo	E.
21	4	Ao	
22	2	Gy	
23	6	Ao	Sine 4128-31 F407 strong.
24	2	Gy5	
25	10	A2	
26	7	Ko	
27	2	Ko	

1	+1°	3012	14°	52.9	+1	6.4	8.3	✓
2	+1°	3015	14°	54.4	+1	16.9	8.5	✓
3	+0°	2997	14°	54.4	+0	26.2	6.3	✓
4	+1°	3016	14°	55.2	+1	36.3	8.6	✓
5	+1°	3018	14°	56.0	+1	26.9	8.0	✓
6	+1°	3021	14°	57.2	+1	12.2	8.7	✓
7	+1°	3022	14°	57.9	+1	4.2	8.5	✓
8	-0°	2921	14°	56.9	-0	20.2	8.0	✓
9	-0°	2924	14°	58.2	-0	44.2	8.2	✓
10	-1°	3014	14°	58.2	-1	24.9	7.8	✓
11	-1°	3021	14°	59.7	-1	43.3	8.6	✓
12	+0°	3304	15°	0.0	+0	35.8	8.4	✓
13	+0°	3308	15°	0.6	+0	30.2	8.6	✓
14	-0°	2933	15°	1.2	-0	25.0	8.5	✓
15	-0°	2936	15°	2.6	-0	19.1	7.8	✓
16	-0°	2937	15°	2.8	-0	30.5	8.3	✓
17	-1°	3030	15°	4.1	-1	42.7	7.0	✓
18	+0°	3318	15°	5.2	+0	9.5	7.6	✓
19	-0°	2944	15°	6.6	-0	47.2	7.0	✓
20	-1°	3041	15°	7.4	-1	51.6	8.0	✓
21	-0°	2946	15°	7.7	-0	38.9	8.2	✓
22	+0°	3320	15°	6.6	+0	33.2	9.1	✓
23	+0°	3324	15°	7.0	+0	54.1	8.1	✓
24	+0°	3325	15°	8.0	+0	40.7	8.9	✓
25	+0°	2827	15°	8.4	+0	55.0	5.9	✓
26	+1°	3052	15°	8.6	+1	20.3	7.5	✓
27	+1°	3051	15°	8.6	+1	43.1	8.7	✓

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April 23, 1912

I 37729

No.	Int.	Class	Remark
28	4	J2	
29	2	ly	
30	1	K	
31	2	ly0	
32	3	J5	
33	2	a	
34	6	ly5	
35	5	ly0	
36	8	K5	
37	2	J0	
38	1	K	
39	6	K0	
40	4	Ch.	no bright lines
41	10	J8	
42	8	K0	
43	1	ly5	
44	2	ly5	
45	2	J5	
46	1	J5	
47	2	A2	
48	3	K0	
49	8	J8	
50	2	A	8.
51	8	K2	8.
52	2	K	8.
53	10	J0	
54	6	A2	

28	+1°	3049	15°	7.5°	+1°	48.9	8.6 ✓
29	+0°	3329	15°	9.1°	+0°	37.2	9.2 ✓
30	+0°	3328	15°	8.9	+0°	22.0	8.7 ✓
31	+0°	3332	15°	9.8°	+0°	46.6	9.4 ✓
32	+0°	3336	15°	10.7°	+0°	40.8	9.0 ✓
33	+0°	3334	15°	10.2°	+0°	7.2	9.0 ✓
34	−0°	2948	15°	10.2°	−0°	27.4	7.7 ✓
35	−0°	2949	15°	11.0°	−0°	14.6	8.2 ✓
36	+0°	3337	15°	11.0°	+0°	5.6	6.2 ✓
37	+0°	3338	15°	11.2°	+0°	21.6	8.7 ✓
38	+1°	3057	15°	10.7°	+1°	20.6	8.9 ✓
39	+1°	3059	15°	11.0°	+1°	27.6	7.1 ✓
40	+2°	2943	15°	11.2°	+2°	36.9	Net. ✓
41	+2°	2944	15°	12.0°	+2°	18.7	5.0 ✓
42	+1°	3067	15°	13.7°	+1°	14.4	6.1 ✓
43	+0°	3346	15°	13.0°	+0°	47.1	9.2 ✓
44	+0°	3348	15°	13.7°	+0°	17.7	8.6 ✓
45	+0°	3345	15°	12.9°	+0°	4.2°	9.0 ✓
46	+0°	3342	15°	12.7°	+0°	10.8	9.5 ✓
47	−0°	2956	15°	13.7°	−0°	11.4	9.1 ✓
48	−0°	2956	15°	14.1°	−0°	20.8	8.2 ✓
49	−1°	3045	15°	11.5°	−1°	3.9°	7.3 ✓
50	−1°	3046	15°	11.7°	−1°	37.7	8.3 ✓
51	−1°	3047	15°	13.3°	−1°	52.1	6.5 ✓
52	−1°	3051	15°	15.2°	−1°	1.0	8.5 ✓
53	−0°	2961	15°	16.3°	−0°	31.3	6.5 ✓
54	−0°	2963	15°	16.9°	−0°	0.9	7.7 ✓

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April 28, 1912

Σ 37729

No.	Int.	Class	Remark
55	7	F2	
56	4	A2	
57	3	G0	
58	4	G5	
59	8	A3	
60	10	F0	
61	2	G5	
62	3	F8	
63	3	F8	
64	2	G	E.
65	3	G	E.
66	7	G	E.
67	4	G5	
68	8	F5	
69	4	G0	
70	1	K	
71	10+	K	
72	3	F5	
73	2	K	
74	2	G	
75	4	K0	
76	2	G	
77	4	G0	
78	8	F0	
79	7	K2	
80	7	F0	
81	2	G0	

55	−0°	29°65	15°	18.3	−0°	44.5	7.5	✓
56	−0°	29°71	15°	20.3	−0°	7.0	8.3	✓
57	+0°	33°55	15°	18.6	+0°	47.7	9.0	✓
58	+1°	30°80	15°	20.0	+1°	21.0	8.7	✓
59	+1°	30°84	15°	21.2	+1°	6.2	7.9	✓
60	+2°	29°65	15°	21.3	+2°	20.3	6.3	✓
61	+1°	30°87	15°	21.8	+1°	57.1	9.0	✓
62	+2°	29°67	15°	22.1	+2°	20.2	8.7	✓
63	+2°	29°68	15°	22.3	+2°	15.8	8.6	✓
64	+1°	30°88	15°	22.4	+1°	39.8	8.9	✓
65	+1°	30°91	15°	23.9	+1°	20.7	9.1	✓
66	+1°	30°92	15°	24.3	+1°	23.4	7.8	✓
67	+2°	29°00	14.4	53.9	+2°	25.7	8.5	✓
68	+3°	29°66	14°	53.8	+3°	28.3	7.3	✓
69	+3°	29°68	14°	54.6	+3°	55.7	8.4	✓
70	+3°	29°69	14°	55.4	+3°	2.4	9.1	✓
71	+2°	29°05	14.4	55.6	+2°	40.0	4.7	✓
72	+2°	29°04	14.4	55.5	+2°	11.2	9.0	✓
73	+2°	29°08	14.4	56.4	+2°	56.7	8.9	✓
74	+2°	29°09	14.4	56.7	+2°	40.9	9.3	✓
75	+2°	29°10	14.4	58.0	+2°	35.0	8.5	✓
76	+3°	29°73	14.4	59.1	+3°	13.1	9.0	✓
77	+3°	29°75	14°	59.2	+3°	11.4	9.0	✓
78	+3°	29°74	14°	59.2	+3°	34.4	7.7	✓
79	+2°	29°15	14.4	59.8	+2°	55.3	7.1	✓
80	+2°	29°19	15°	1.6	+2°	14.2	7.9	✓
81	+2°	29°18	15°	1.0	+2°	11.1	9.2	✓

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April 22, 1910

I 37729

No.	Int.	Class	Remark
82	2	A5	
83	2	ly5	
84	6	ly5	
85	+2	K	
86	1	ly	
87	3	K0	
88	8	A5	
89	4	A5	
90	1	K	
91	3	F5	
92	3	F2	
93	3	ly5	
94	3	F0	
95	2	ly	
96	2	ly	
97	10	K0	
98	3	K2	
99	2	ly5	
100	4	F2	
101	3	F5	
102	2	ly	
103	1	K5	
104	2	F8	
105	7	F5	
106	2	A	
107	1	K	
108	4	ly0	

82	+1°	3029	15″	0.8	+1″	52.6	8.8 ✓
83	+1°	3031	15″	1.3	+1″	25.8	9.2 ✓
84	+1°	3036	15″	2.3	+1″	16.2	8.3 ✓
85	+0°	3313	15″	3.4	+0″	41.1	8.9 ✓
86	+3°	2989	15″	3.5	+3″	14.5	9.0 ✓
87	+3°	2991	15″	4.2	+3″	45.1	8.8 ✓
88	+3°	2992	15″	4.2	+3″	22.6	8.0 ✓
89	+2°	2925	15″	4.9	+2″	56.5	8.8 ✓
90	+2°	2928	15″	5.8	+2″	26.0	8.8 ✓
91	+2°	2931	15″	6.2	+2″	47.7	8.9 ✓
92	+2°	2933	15″	6.8	+2″	15.6	8.8 ✓
93	+3°	2999	15″	6.6	+3″	13.4	8.9 ✓
94	+3°	3001	15″	7.2	+3″	45.4	8.8 ✓
95	+3°	3003	15″	7.9	+3″	51.2	9.0 ✓
96	+3°	3004	15″	8.2	+3″	34.3	9.0 ✓
97	+5°	2985	15″	8.0	+5″	29.2	5.3 ✓
98	+5°	2989	15″	9.0	+5″	26.9	8.9 ✓
99	+5°	2991	15″	10.2	+5″	30.2	9.0 ✓
100	+5°	2992	15″	11.7	+5″	4.8	8.7 ✓
101	+4°	2990	15″	10.2	+4″	41.9	9.0 ✓
102	+4°	2991	15″	10.3	+4″	11.4	8.8 ✓
103	+4°	2993	15″	10.5	+4″	19.3	8.8 ✓
104	+4°	2997	15″	11.5	+4″	16.5	9.1 ✓
105	+3°	3009	16″	12.5	+3″	51.5	8.4 ✓
106	+3°	3011	15″	13.3	+3″	51.4	9.3 ✓
107	+3°	3013	15″	14.3	+3″	43.9	9.3 ✓
108	+3°	3014	15″	14.5	+3″	53.3	8.8 ✓

cards made out

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April 22, 1912

I = 37729

No.	Mt.	Class	Remark
109	4	A3	
110	5	F5	
111	5	F0	
112	7	F0	
113	4	A2	
114	3	G5	
115	2	B	
116	2	G5	
117	4	F5	
118	6	F2	
119	2	G0	
120	2	G5	
121	4	G0	
122	1	A	Confirms.
123	7	A5	
124	6	A0	
125	9	The	
126	3	F8	
127	6	F5	
128	9	F0	
129	7	F0	
130	3	G	E.
131	2	A	E.
132	2	G	E.
133	4	F5	
134	5	F0	
135	9	G5	

109	+4°	3009	15	15.9	+4	8.1	8.9	✓
110	+2°	2952	15	15.4	+2	43.7	8.6	✓
111	+1°	3071	15	15.4	+1	57.0	8.7	✓
112	+0°	3349	15	15.7	+0	58.8	7.5	✓
113	+1°	3072	15	17.3	+1	10.6	8.9	✓
114	+1°	3074	15	17.7	+1	31.5	8.8	✓
115	+2°	2957	15	17.7	+2	0.7	8.6	✓
116	+2°	2958	15	17.8	+2	15.6	9.0	✓
117	+3°	3019	15	17.0	+3	23.9	9.0	✓
118	+3°	3020	15	17.0	+3	18.3	8.7	✓
119	+3°	3023	15	17.2	+3	35.3	9.3	✓
120	+3°	3025	15	18.0	+3	43.4	8.8	✓
121	+3°	3031	15	20.0	+3	35.3	9.1	✓
122	+3°	3029	15	19.9	+3	25.2	9.5	✓
123	+3°	3034	15	20.9	+3	22.1	8.2	✓
124	+2°	2964	15	21.2	+2	59.9	8.6	✓
125	+5°	2954	15.4	52.2	+5	9.0	6.2	✓
126	+4°	2947	14	53.7	+4	54.6	8.9	✓
127	+5°	2962	14	56.1	+5	24.0	7.5	✓
128	+6°	2983	14	56.9	+6	4.1	6.3	✓
129	+6°	2995	14	59.1	+6	6.2	7.2	✓
130	+6°	2987	14	58.1	+6	51.4	8.7	✓
131	+7°	2889	14	58.5	+7	15.5 20.8 7.9	9.0 8.5	✓
132	+6°	2997	14	59.8	+6	55.8	9.2	✓
133	+6°	2996	14	59.5	+6	20.8	8.5	✓
134	+6°	3000	15	0.4	+6	50.1	8.2	✓
135	+6°	3001	15	0.5	+6	3.4	6.3	✓
						cards	made	out

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April 23, 1912

I 39739

No.	Int.	Class	Remark
136	3	F2	
137	2	K2	
138	4	F0	
139	5	F0	Partly superposed on 140.
140	8	F0	
141	3	lyS	
142	5	F5	
143	7	F2	
144	4	K0	
145	3	lyO	
146	2	lyS	
147	5	F8	
148	6	F5	
149	7	F5	
150	2	lyS	
151	2	K	
152	5	K2	
153	4	lyO	
154	8	K0	
155	1	K	
156	1	lyS	
157	3	K	E.
158	3	F0	
159	4	lyS	
160	8	F5	
161	6	F5	
162	1	K0	

136	+5°	2977	15	1.9	+5	45.3	8.5 ✓
137	+4°	2955	14	56.4	+4	17.7	8.8 ✓
138	+4°	2957	14	56.8	+4	28.8	9.0 ✓
139	+4°	2963	14	58.7	+4	34.0	8.3 ✓
140	+4°	2964	14	58.8	+4	47.9	7.3 ✓
141	+5°	2972	14	59.8	+5	0.7	8.5 ✓
142	+4°	2969	15	1.1	+4	29.2	8.0 ✓
143	+4°	2970	15	2.2	+4	25.7	6.8 ✓
144	+4°	2971	15	2.5	+4	15.0	7.8 ✓
145	+3°	2984	15	1.2	+3	43.3	9.2 ✓
146	+3°	2988	15	2.8	+3	50.4	9.0 ✓
147	+4°	2973	15	3.1	+4	40.3	8.3 ✓
148	+4°	2977	15	5.0	+4	52.6	8.3 ✓
149	+4°	2980	15	5.5	+4	5.5	7.7 ✓
150	+4°	2984	15	6.9	+4	27.7	9.0 ✓
151	+4°	2986	15	8.0	+4	37.8	9.1 ✓
152	+5°	2981	15	6.4	+5	35.8	8.0 ✓
153	+5°	2983	15	7.2	+5	31.4	8.7 ✓
154	+7°	2926	15	8.8	+7	0.5	7.1 ✓
155	+6°	3018	15	10.1	+6	13.6	9.0 ✓
156	+6°	3020	15	11.4	+6	32.5	9.2 ✓
157	+7°	2937	15	11.9	+7	31.4	8.5 ✓
158	+6°	3023	15	13.0	+6	29.6	9.2 ✓
159	+5°	2993	15	14.1	+5	54.2	8.7 ✓
160	+6°	3026	15	14.8	+6	7.4	7.8 ✓
161	+6°	3030	15	16.0	+6	34.3	8.2 ✓
162	+5°	2994	15	14.2	+5	29.2	8.8 ✓

cards made out

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April 22, 1912

I 37729

No.	Grt.	Class	Remark
163	3	Ly0	
164	4	F5	
165	2	Ly	
166	3	A	
167	6	G0	
168	5	K0	
169	3	Ly5	
170	6	F8	
171			
172			

Time 23.03

163	+5°	29.98	15	15.2	+ 5	11.8	9.0 ✓
164	+5°	30.00	15	15.3	+ 5	13.9	8.9 ✓
165	+4°	30.06	15	15.0	+ 4	47.8	9.2 ✓
166	+6°	30.39	15	18.5	+ 6	29.3	9.0 ✓
167	+6°	30.41	15	18.7	+ 6	27.9	5.7 ✓
168	+5°	30.07	15	19.6	+ 5	44.8	8.1 ✓
169	+5°	30.09	15	20.5	+ 5	53.5	9.2 ✓
170	+6°	30.48	15	20.5	+ 6	36.6	8.0 ✓

Identified by A.M.C. May 23, 1912

Checked by J.B.W. Revd. Sept 4, 1912

cards made out by Mr C.W.

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Thursday, April 24 1912

Time: 21.36 B 2459 shot disp.

No.	Int.	Class	Remark
1	9	Iy5	
2	3	Iy	Focus spoor
3	5	Ia2	
4	7	Ia	
5	9	Ib	Focus spoor
6	3	Ia2	
7	4	Iy0	
8	10	A	Burned out.
9	7	Ia	
10	3	Iy	
11	6	Ia0	
12	3	Ik5	Perhaps Ia. Focus spoor.
13	8	Ia0	
14	3	Ik2	
15	6	Iy0	
16	3	I8	
17	3	Iy0	
18	7	By0	
19	3	Ia0	
20	8	I8	
21	4	Ia0	
22	1	Ia5	
23	10	Iy0	
24	5	Ia0	
25	3	Iy0	
26	4	Ia0	
27	5	I2	

1	-20°	596	3	4.1	-20	39.9	7.2	√
2	-20°	594	3	3.9	-20	45.9	8.9	√
3	-21°	569	3	3.7	-21	7.0	8.8	√
4	-20°	591	3	3.0	-20	34.5	7.9	√
5	-20°	592	3	3.2	-20	0.8	7.5	√
6	-19°	619	3	3.0	-19	35.4	8.6	√
7	-19°	618	3	2.5	-19	26.2	8.5	√
8	-19°	617	3	2.3	-19	31.3	7.3	√
9	-19°	616	3	1.6	-19	51.6	7.8	√
10	-20°	589	3	1.7	-20	14.6	8.8	√
11	-19°	609	3	0.2	-19	19.8	8.5	√
12	-19°	604	3	59.4	-19	51.1	8.6	√
13	-19°	600	3	58.6	-19	38.5	7.3	√
14	-20°	588	3	1.7	-20	58.5	8.5	√
15	-21°	563	3	0.7	-21	12.5	8.0	√
16	-21°	560	2	59.7	-21	24.3	9.2	√
17	-20°	579	2	59.4	-20	57.8	9.1	√
18	-21°	557	2	58.9	-21	41.0	8.5	√
19	-22°	541	2	58.3	-22	13.0	9.2	√
20	-21°	555	2	58.1	-21	58.4	8.2	√
21	-21°	552	2	57.8	-21	38.5	9.1	√
22	-21°	550	2	57.4	-21	39.7	9.1	√
23	-21°	549	2	57.2	-21	55.8	7.5	√
24	-21°	551	2	57.5	-21	17.5	8.5	√
25	-21°	553	2	57.9	-21	7.0	9.0	√
26	-20°	575	2	56.8	-20	47.7	8.4	√
27	-20°	576	2	57.0	-20	9.6	9.0	√

Cards made out

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April 24, 1912

B24 597 short disp.

No.	Int.	Class	Remark
28	4	Ko	
29	4	Ky0	
30	3	A2	
31	3	Ko	
32	3	Ky5	
33	3	F8	
34	3	Ky5	
35	8	Ma	
36	3	Ky5	
37	8	Ky0	
38	7	Ko	
39	2	K	Partly superposed on 38.
40	6	K5	
41	3	Ky0	
42	2	F8	
43	2	Ky5	
44	2	Ky	
45	11	Ko	
46	3	A0a	
47	6	Ky5	
48	3	F8	
49	2	Ko	
50	7	F0	
51	3	F8	
52	5	F5	
53	8	Ko	
54	3	F8	

28	-20°	574	2	56.7	-20	10.3	8.3	^J
29	-20°	570	2	55.7	-20	28.8	8.8	J
30	-20°	571	2	55.7	-20	40.7	9.2	J
31	-21°	544	2	56.0	-21	3.2	9.1	J
32	-21°	541	2	55.1	-21	0.5	9.1	^J
33	-20°	569	2	54.8	-20	34.5	9.0	J
34	-21°	537	2	54.4	-21	19.1	9.0	J
35	-21°	535	2	54.2	-21	16.2	7.3	J
36	-21°	536	2	54.3	-21	25.5	8.9	J
37	-21°	533	2	53.6	-21	23.6	7.3	J
38	-21°	529	2	52.9	-21	22.9	8.0	J
39	-21°	528	2	52.9	-21	18.2	9.0	J
40	-19°	591	2	55.3	-19	55.2	8.0	J
41	-20°	565	2	53.4	-20	20.7	9.1	J
42	-20°	564	2	53.3	-20	4.2	9.0	J
43	-20°	566	2	53.4	-20	27.1	9.4	J
44	-20°	562	2	52.8	-20	40.1	9.4	J
45	-19°	570	2	51.0	-19	53.9	9.0	J
46	-19°	569	2	50.8	-19	37.9	9.1	^J
47	-19°	568	2	49.7	-19	17.5	8.3	J
48	-19°	566	2	49.2	-19	21.3	8.9	J
49	-19°	564	2	48.9	-19	28.0	8.6	J
50	-19°	565	2	49.0	-19	43.4	8.5	J
51	-20°	550	2	49.7	-20	25.4	9.5	J
52	-20°	548	2	49.5	-20	26.2	9.3	J
53	-20°	546	2	49.1	-20	21.0	7.5	J
54	-20°	549	2	49.6	-20	49.7	9.3	J

cards made out

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April 24, 1912

P 24.597 short disp.

No.	Int.	Class	Remark
55	2	K0	
56	2	ly	
57	5	ly0	
58	2	K0	
59	8	F0	
60	10	A2	
61	4	F8	
62	10	F2	
63	9	K0	
64	4	B8	
65	3	K0	
66	6	F0	
67	1	K	
68	2	ly	Partly superposed on 69.
69	3	K0	
70	5	F8	
71	3	F2	
72	7	K0	
73	3	K0	
74	10+	ly5	Burned out
75	10	ly5	
76	2	ly0	
77	2	ly5	
78	7	ly5	
79	6	ly0	
80	2	K0	
81	4	ly5	

55	-20°	542	2	48.7	-20	43.9	9.2	✓
56	-20°	541	2	48.3	-20	58.4	9.6	✓
57	-20°	540	2	47.8	-20	42.9	8.5	✓
58	-21°	515	2	47.2	-21	8.3	9.1	✓
59	-21°	520	2	48.3	-21	33.8	8.8	✓
60	-21°	517	2	47.9	-21	81.1	7.8	✓
61	-21°	519	2	48.2	-21	47.8	9.1	✓
62	-21°	518	2	48.2	-21	46.9	8.1	✓
63	-21°	524	2	50.6	-21	50.0	7.6	✓
64	-22°	517	2	50.5	-22	0.4	9.1	✓
65	-22°	514	2	49.4	-22	12.3	9.2	✓
66	-22°	511	2	49.1	-22	1.0	9.0	✓
67	-22°	512	2	49.2	-22	12.4	9.6	✓
68	-22°	510	2	48.6	-22	23.5	9.6	✓
69	-22°	509	2	48.6	-22	28.9	9.7	✓
70	-22°	508	2	48.6	-22	47.6	9.4	✓
71	-23°	1112	2	48.7	-23	47.4	9.2	✓
72	-23°	1110	2	48.6	-23	27.4	8.1	✓
73	-23°	1107	2	48.2	-23	17.4	9.2	✓
74	-22°	503	2	47.1	-22	58.4	6.3	✓
75	-22°	502	2	46.8	-22	41.4	7.2	✓
76	-22°	505	2	47.3	-22	15.7	9.3	✓
77	-22°	500	2	46.4	-22	18.3	9.3	✓
78	-21°	514	2	46.2	-21	49.8	8.1	✓
79	-21°	511	2	45.2	-21	53.0	8.3	✓
80	-22°	498	2	45.3	-22	48.7	9.1	✓
81	-22°	492	2	44.6	-22	1.4	8.5	✓

Cards made out

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April 24. 1912

B 24597 short slide.

No.	Int.	Class	Remark
82	5	F5	
83	3	G5	
84	3	F8	
85	3	G0	
86	3	G5	
87	5	G0	
88	1	K	
89	4	G5	
90	6	G5	
91	8	G5	
92	3	K2	
93	10+	G	Burned out
94	4	G5	
95	8	A2	
96	5	K5	
97	5	G5	
98	4	F5	
99	2	F2	
100	2	G0	
101	3	F8	
102	1	G5	
103	3	K2	
104	5	K5	
105	7	F5	
106	8	F2	
107	3	K5	Focus fair. Maybe Mn.
108	7	F2	

83	-22°	494	2	44.8	-22	14.9	8.6	✓
83	-22°	490	2	44.1	-22	9.0	9.0	✓
84	-22°	497	2	45.3	-22	25.3	9.2	✓
85	-22°	499	2	46.1	-22	59.4	9.4	✓
86	-22°	498	2	45.3	-22	48.7	9.6	✓
87	-22°	495	2	45.1	-22	46.6	9.1	✓
88	-22°	493	2	44.7	-22	58.3	9.2	✓
89	-22°	491	2	44.3	-22	46.2	9.1	✓
90	-22°	489	2	43.6	-22	46.4	8.9	✓
91	-22°	487	2	43.1	-22	19.5	8.3	✓
92	-22°	485	2	42.8	-22	15.7	9.1	✓
93	-21°	509	2	44.4	-21	36.8	5.0	✓
94	-21°	506	2	44.0	-21	10.4	9.1	✓
95	-20°	528	2	43.9	-20	43.6	8.2	✓
96	-20°	523	2	43.5	-20	50.9	8.6	✓
97	-20°	521	2	43.2	-20	50.9	8.2	✓
98	-20°	534	2	45.8	-20	46.9	8.8	✓
99	-20°	533	2	45.7	-20	41.1	9.2	✓
100	-20°	535	2	46.0	-20	13.7	9.2	✓
101	-19°	556	2	47.2	-19	53.5	9.3	✓
102	-19°	555	2	47.0	-19	46.7	9.2	✓
103	-19°	553	2	46.9	-19	17.3	8.8	✓
104	-19°	550	2	46.0	-19	2.4	8.9	✓
105	-18°	486	2	45.7	-18	36.8	8.5	✓
106	-18°	486	2	45.3	-18	57.2	8.0	✓
107	-19°	549	2	45.7	-19	21.0	9.0	✓
108	-19°	541	2	44.4	-19	49.9	8.8	✓

Cards made out

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April 24, 1912.
B24 597 short disp.

No.	Int.	Class	Remark
109	3	F5	The following of two
110	4	fg0	
111	3	fg	
112	5	Mb	
113	5	A5	
114	2	K2	
115	3	fg	
116	6	F2	
117	4	A0	
118	3	fg5	Focus spoil
119	4	fg5	
120	5	A0	
121	4	fg	
122	3	fg5	
123	7	F0	
124	2	K2	
125	3	fg5	
126	6	fg5	
127	3	K2	
128	3	fg	
129	9	fg5	
130	2	fg	
131	3 10+	K0	
132	10+	F	
133	10	F0	
134	1	fg	
135	4	K0	

109	-20°	526	2	43.6	-20	5.1	9.3	∧ J
110	-20°	527	2	43.7	-20	5.1	9.3	∧ J
111	-19°	535	2	42.9	-19	56.6	9.3	J
112	-19°	533	2	42.2	-19	37.9	8.3	J
113	-19°	536	2	43.3	-19	4.2	9.0	J
114	-19°	534	2	42.5	-19	14.0	9.2	J
115	-19°	531	2	41.7	-19	35.9	9.0	J
116	-19°	530	2	41.5	-19	17.4	8.3	J
117	-18°	478	2	41.3	-18	57.1	9.0	J
118	-18°	478	2	41.1	-18	59.0	9.0	J
119	-18°	476	2	40.9	-18	55.5	8.8	J
120	-19°	522	2	39.8	-19	3.6	9.0	J
121	-18°	472	2	39.8	-18	39.2	8.5	J
122	-19°	525	2	40.3	-19	34.2	8.9	J
123	-19°	521	2	39.8	-19	30.2	8.7	J
124	-19°	529	2	41.4	-19	58.6	8.9	J
125	-20°	519	2	41.5	-20	11.4	9.4	J
126	-20°	518	2	41.5	-20	34.9	8.6	J
127	-21°	503	2	42.5	-21	26.7	9.3	J
128	-21°	500 / 501	2	42.2	-21	31.1	9.4	J
129	-21°	499	2	42.0	-21	25.7	7.7	J
130	-21°	498	2	41.1	-21	51.9	9.4	J
131	-21°	497	2	40.2	-21	41.3	9.0	J
132	-22°	479	2	40.2	-22	15.2	6.6	J
133	-22°	477	2	39.8	-22	16.3	7.3	J
134	-21°	494	2	39.1	-21	45.8	9.4	J
136	-21°	495	2	39.2	-21	29.3	8.9	J

Cards made out

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April 24, 1912

B2459 short disp.

No.	Int.	Class	Remark
136	1	K	
137	10	A0	
138	4	F5	
139	3	K0	
140	3	G0	
141	2	K	
142	2	G	
143	7	G0	
144	4	G5	
145	3	G5	
146	7	F8	
147	6	F5	
148	2	G	
149	4	A5	Focus poor.
150	10+	B?	Completely burned out.
151	5	Ma	
152	6	G0	
153	7	G0	
154	4	K0	
155	6	F8	Focus poor. E.
156	4	Ma	E.
157	7	G0	E.
158	5	K0	E.
159	6	K0	E.
160	4	G5	
161	6	G0	
162	7	F8	

136	-20°	512	2	39.6	-20	53.9	9.2	✓
137	-21°	493	2	38.7	-21	1.1	7.0	✓
138	-20°	511	2	39.0	-20	41.4	8.9	✓
139	-21°	489	2	37.5	-21	8.8	9.0	✓
140	-21°	487	2	37.3	-21	41.0	9.1	✓
141	-21°	485	2	37.2	-21	25.6	9.2	✓
142	-21°	484	2	37.1	-21	12.3	9.4	✓
143	-20°	506	2	36.3	-20	55.4	7.5	✓
144	-21°	481	2	36.0	-21	9.9	8.5	✓
145	-20°	502	2	35.2	-20	49.2	8.8	✓
146	-19°	510	2	36.4	-19	58.2	8.5	✓
147	-19°	512	2	36.4	-19	39.7	8.8	✓
148	-20°	505	2	36.2	-20	40.1	9.0	✓
149	-18°	461	2	36.5	-18	58.8	8.5	✓
150	-19°	518	2	38.3	-19	11.1	4.0	✓
151	-22°	465	2	35.9	-22	5.1	8.3	✓
152	-21°	478	2	35.1	-21	47.9	8.2	✓
153	-22°	460	2	34.0	-22	12.1	8.0	✓
154	-22°	461	2	34.3	-22	33.0	8.5	✓
155	-21°	481	2	32.4	-21	29.9	8.3	✓
156	-21°	470	2	32.0	-21	40.1	8.0	✓
157	-21°	474	2	33.0	-21	2.8	7.5	✓
158	-20°	498	2	32.6	-20	47.6	8.2	✓
159	-21°	469	2	31.9	-21	5.1	6.8	✓
160	-21°	571	3	4.6	-21	57.0	8.9	✓
161	-22°	560	3	4.0	-22	18.0	8.7	✓
162	-22°	559	3	3.8	-22	14.8	8.5	✓

Cards made out

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April 24. 1912.

B 24597 short diffs.

Nr.	Int.	Class	Remark
163	4	K0	
164	6	K0	
165	4	K0	
166	5	K0	
167	5	K5	
168	3	K5	
169	3	K	
170	5	F5	
171	3	F0	
172	3	K0	
173	2	F5	
174	10	A3	
175	1	K5	
176	#7	F8	
177	6	K0	
178	2	K5	
179	6	F8	
180	3	A2	
181	4	K0	
182	3	K0	
183	2	K	
184	2	K	
185	3	F8	
186	2	K0	
187	3	K	
188	3	K0	
189	7	K5	
190	8	K5	

163	-22°	561	3	4.4	-22	33.3	9.1	)
164	-22°	556	3	2.6	-22	23.4	8.8	(
165	-22°	552	3	2.2	-22	15.7	9.2	)
166	-21°	564	3	1.8	-21	44.5	8.7	(
167	-22°	1672	3	2.2	-22	58.5	8.8	)
168	-22°	549	3	0.9	-22	36.7	9.1	)
169	-23°	1221	3	1.5	-23	3.7	9.2	)
170	-22°	544	2	58.9	-22	44.5	9.0	(
171	-22°	540	2	58.0	-22	58.5	9.4	)
172	-22°	538	2	57.4	-22	27.6	9.0	)
173	-22°	537	2	57.1	-22	9.6	9.4	)
174	-22°	535	2	56.4	-22	25.3	7.7	(
175	-22°	533	2	55.9	-22	30.5	9.3	(
176	-22°	530	2	55.7	-22	19.6	8.1	)
177	-22°	536	2	56.6	-22	58.7	8.8	)
178	-23°	1188	2	57.2	-23	1.5	8.5	^)
179	-23°	1184	2	56.8	-23	17.8	8.5	^)
180	-23°	1181	2	56.5	-23	24.8	8.7	^)
181	-23°	1170	2	55.4	-23	26.1	8.6	^ (
182	-22°	529	2	55.3	-22	41.4	8.9	)
183	-22°	528	2	55.1	-22	10.1	9.4	(
184	-21°	540	2	54.6	-21	58.7	9.3	)
185	-21°	538	2	54.5	-21	42.8	9.3	(
186	-21°	546	2	56.7	-21	30.4	9.3	)
187	-21°	532	2	53.2	-21	49.0	9.3	)
188	-22°	524	2	52.5	-22	6.7	9.3	)
189	-22°	520	2	51.3	-22	49.0	8.7	)
190	-23°	1142	2	51.9	-23	2.3	8.6	^ (

cards made out

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April 24, 1972

B 24597 short disp.

No.	Int.	Class	Remark
191	3	fg5	
192	6	fg0	
193	1	K5	Partly superposed on 192. Difficult
194	8	fg5	
195	7	fg5	
196	5	K5	
197	3	f5	
198	2	fg5	
199	2	fg5	
200	5	fg0	
201	2	f0	
Time: 22.23	202	7	Ma
" 21.45	203	3	f5
	204	2	fg
	205	5	fg5
	206	6	K0
	207	8	fg5
	208	10	A2
	209	3	fg5
	210	5	f2
	211	2	f8
	212	10+	f5 Burned out.
	213	4	K0
	214	8	f5
	215	1	f5
	216	10	f8
	217	5	f5

191	-23°	1135	2	51.4	-23	12.1	9.0	∧ ∨
192	-22°	519	2	50.7	-22	42.7	9.1	∨
193	-22°	518	2	50.7	-22	40.7	9.2	∨
194	-22°	515	2	50.1	-22	54.1	8.5	∨
195	-23°	1131	2	51.3	-23	29.3	8.2	∧ ∨
196	-23°	1121	2	50.4	-23	43.6	8.1	∧ ∨
197	-23°	1120	2	49.9	-23	53.3	9.1	∧ ∨
198	-23°	1116	2	49.4	-23	51.0	8.8	∧ ∨
199	-23°	1113	2	48.8	-23	47.6	9.0	∧ ∨
200	-23°	1109	2	48.6	-23	58.3	8.8	∧ ∨
201	-23°	1111	2	48.7	-23	40.6	9.4	∧ ∨
202	-23°	1106	2	48.2	-23	39.6	8.0	∧ ∨
203	-23°	1105	2	48.0	-23	58.0	9.1	∧ ∨
204	-23°	~~1095~~ 1103	2	47.8	-23	58.6	~~8.6~~ 8.8	∧ ∨
205	-24°	1293	2	47.2	-24	1.6	9.1	∧ ∨
206	-23°	1095	2	47.0	-23	58.6	8.6	∧ ∨
207	-23°	1091	2	46.2	-23	42.0	8.4	∧ ∨
208	-23°	1086	2	45.2	-23	32.3	7.3	∧ ∨
209	-23°	1088	2	45.7	-23	10.4	8.9	∧ ∨
210	-23°	1069	2	42.9	-23	36.6	8.8	∧ ∨
211	-23°	1064	2	42.5	-23	3.4	9.1	∧ ∨
212	-23°	1061	2	41.6	-23	0.4	6.5	∧ ∨
213	-23°	1059	2	41.1	-23	10.7	8.6	∧ ∨
214	-23°	1055	2	40.8	-23	21.0	9.2	∧ ∨
215	-23°	1050	2	40.4	-23	15.7	8.9	∧ ∨
216	-22°	474	2	38.5	-22	46.8	9.2	∨
217	-23°	1040	2	38.0	-23	11.4	9.0	∧ ∨

cards made out

The following 2 close stars were blended. Only one identification could be made.

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Madison, April 25 1912

B24597 short dist.

No.	Int.	Class	Remark
218	7	Mc	
219	5	Ko	
220	3	Ko	
221	8	Go	
222	8	Ko	
223	2	Gs	
224	10	K	
225	10+	As	Burned out.
226	1	As	
227	1	Ko	
228	2	Gs	
229	5	F8	
230	2	F8	
231	7	F5	
232	8	Ko	
233	7	Ao	
234	4	Ao	E.
235	4	Gs	
236	3	K2	
237	4	Go	
238	4	Go	
239	2	Ko	
240	2	Go	
241	1	Ao	
242	1	Ko	
243	3	Gs	
244	4	Go	

218	-23°	1029	2	36.3	-23	8.0	7.8	∧ ∫
219	-23°	1200	2	58.7	-23	38.3	8.8	∧ ∫
220	-23°	1173 69	2	55.5 2	-23	52.0	9.2	∧ ∫
221	-23°	1162	2	54.2	-23	52.6	8.4	∧ ∫
222	-24°	1356	2	53.8	-24	11.8	8.1	∧ ∫
223	-24°	1350	2	53.1	-24	17.0	9.3	∧ ∫
224	-24°	1343	2	52.5	-24	6.5	6.2	∧ ∫
225	-24°	1336	2	51.8	-24	21.9	5.7	∧ ∫
226	-23°	1151	2	53.0	-23	32.4	9.9	∧ ∫
227	-23°	1144	2	52.1	-23	47.0	9.0	∧ ∫
228	-23°	1136	2	51.5	-23	53.4	8.9	∧ ∫
229	-24°	1322	2	50.9	-24	6.5	9.6	∧ ∫
230	-23°	1127	2	50.7	-23	59.3	9.2	∧ ∫
231	-24°	1310	2	50.1	-23 4	35.2	8.7	∧ ∫
232	-24°	1321	2	50.8	-24	49.2	8.3	∧ ∫
233	-25°	1156	2	49.4	-25	23.4	8.8	∧ ∫
234	-25°	1148	2	48.4	-25	58.8	9.1	∧ ∫
235	-25°	1140	2	46.5	-25	32.5	9.0	∧ ∫
236	-24°	1281	2	46.0	-24	42.8	8.8	∧ ∫
237	-24°	1277	2	45.3	-24	53.1	8.9	∧ ∫
238	-25°	1124	2	44.8 7	-25	4.2	8.8	∧ ∫
239	-25°	1123	2	44.7	-25	13.8	9.2	∧ ∫
240	-24°	1264	2	43.8	-24	15.1	9.0	∧ ∫
241	-23	1077	2	44.0	-23	53.3	9.5	∧ ∫
242	-23°	1082	2	44.8	-23	59.8	9.0	∧ ∫
243	-24°	1248	2	42.3	-24	46.5	8.6	∧ ∫
244	-23 6	1245	2	41.8	-24	12.1	8.8	∧ ∨

Cards made out

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April 25, 1912

B 24597 short disp.

No.	Int.	Class	Remark
245	3	Fo	
246	5	K5	
247	2	Ma	Confirm if possible.
248	8	G5	Focus spoor.
249	3	K0	
~~Time 23.40~~ 250	3	A	
251	3	K5	
252	2	Mb	E.
253	3	K2	E.
254	3	K0	E.
255	2	A	
256	2	F5	
257	2	K2	
258	2	F0	
259	3	K0	
260	2	K	
Time 23.08 261	4	G5	
~~260~~			
262	2	G0	

245	-24°	1234	2	40.4	-24	6.9	8.6	∧ ∨
246	-24°	1230	2	39.3	-24	20.5	8.4	∧ ∨
247	-24°	1228	2	39.0	-24	29.5	9.0	∧ ∨
248	-24°	1225	2	38.9	-24	55.7	7.9	∧ ∨
249	-24°	1221	2	38.4	-24	39.8	9.0	∧ ∨
250	-25°	1070	2	36.6	-25	11.2	8.8	∧ ∨
251	-25°	1080	2	38.1	-25	58.8	8.6	∧ ∨
252	-26°	9898	2	37.7	-26	~~58.0~~ 38.4	~~9.0~~ 8.6	∧ ∨
253	-26°	982	2	36.9	-26	25.4	8.4	∧ ∨
254	-25°	1062	2	35.5	-25	1.7	8.3	∧ ∨
255	-25°	1102	2	41.1	-25	44.3	9.6	∧ ∨
256	-25°	1104	2	41.5	-25	7.2	9.2	∧ ∨
257	-26°	1073	2	50.3	-26	13.0	9.0	∧ ∨
258	-25°	1166	2	51.5	-25	11.5	9.0	∧ ∨
259	-25°	1167	2	51.7	-25	7.8	8.8	∧ ∨
260	-24°	1358	2	54.1	-24	38.8	9.3	∧ ∨
261	-24°	1374	2	55.8	-24	31.5	8.6	∧ ∨

Identified by M. C. W. Aug. 23, 1912.

Switch of -22° checked by Boss. Aug. 24 1912

cards made out by M. C. W.

✓ 262	-23	995	2	31.7	-23	15	8.7	49 in B14876

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April 3, 1912

Time: 22.10

B 23780 short disp.

No.	Int.	Class	Remark.
1	8	Ly5	E.
2	3	F	E.
3	5	Ho5	
4	8	Ly5	
5	5	Ho5	
6	6	F0	
7	2	Ly	
8	1	Ly	
9	4	F0	
10	5	F0	
11	5	A0	
12	3	F5	
13	4	Ly0	
14	6	Ly5	
15	1	Ly5	
16	2	A0	
17	3	Ly5	
18	6	F2	
19	4	F8	
20	1	Ly5	
21	2	Ly0	
22	1	Ly0	
23	2	Ly5	
24	4	F5	
25	5	K0	
26	1	Ly0	
27	2	K2	

1	CDM	-24° 1480	3	8.1	-24	12.7	6.6	∧ ∨
2	CDM	-24° 1466	3	3.9	-24	28.8	8.7	∧ ∨
3		-24 1462	3	3.7	-24	37.1	7.7	∧
4		-25° 1278	3	3.4	-25	22.2	7.3	∧ ∨
5		-25° 1296	3	5.7	-25	18.5	8.0	∧ ∨
6		-25° 1287	3	4.8	-25	55.3	8.2	∧ ∨
7		-25° 1285	3	4.3	-25	33.8	8.9	∧ ∨
8		-25° 1276	3	2.9	-25	53.9	8.9	∧ ∨
9		-26° 1149	3	1.9	-26	2.3	8.4	∧ ∨
10		-25.6° 1144	3	1.4	-25.6	26.2	8.5	∧ ∨
11		-26° 1147	3	1.8	-26	57.9	9.0	∧ ∨
12		-27° 1065	2	58.4	-27	12.8	8.5	∨
13		-27° 1062	2	57.6	-27	28.9	8.4	∧ ∨
14		-25.6° 1132	2	59.3	-25.6	16.4	7.4	∧ ∨
15		-25° 1245	3	0.3	-25	52.9	8.9	∧ ∨
16		-25° 1246	3	0.5	-25	38.1	8.4	∧ ∨
17		-25° 1254	3	1.1	-25	25.5	8.1	∧ ∨
18		-24 1421	3	0.2	-24	41.4	8.2	∨
19		-24° 1426	3	0.7	-24	10.8	8.1	∨
20		-24° 1415	2	59.7	-24	54.8	8.7	∨
21		-25° 1439	2	59.1	-25	0.8	8.7	∧ ∨
22		-25° 1241	2	59.2	-25	9.7	8.9	∧ ∨
23		-24° 1402	2	58.7	-24	40.8	8.6	∨
24		-25° 1226	2	57.5	-25	7.8	8.4	∧ ∨
25		-25° 1225	2	57.4	-25	26.8	8.1	∧ ∨
26		-25° 1221	2	57.0	-25	36.6	9.4	∧ ∨
27		-25° 1217	2	56.4	-25	41.6	8.5	∧ ∨

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April 25, 1912

B 23780 short disp.

No.	Int.	Class	Remark
28	5	Ly0	
29	5	F8	
30	3	F5	
31	4	F5	
32	4	Ly5	
33	10	F2	
34	2	Ly0	
35	10+	A	
36	8	Ly0	
37	8	K0	
38	2	Ly5	
39	6	Ma	
40	5	K0	
41	8	A3	
42	4	K0	
43	7	B5	
44	4	F8	
45	4	A3p	
46	3	F5	
47	3	F5	
48	7	Ly5	
49	3	A5	
50	9	Ly5	
51	4	Ly5	
52	4	K0	
53	2	F5	
54	1	A	

28	-25°	1218	2	56.6	-25	56.8	8.6	∧ ∨
29	-25°	1209	2	56.2	-25	54.8	8.6	∧ ∨
30	-25°	1216	2	56.4	-25	16.7	9.7	∧ ∨
31	-25°	1200	2	55.3	-25	7.8	8.7	∧ ∨
32	-25°	1199	2	55.1	-25	34.0	8.5	∧ ∨
33	-25°	1191	2	54.1	-25	46.2	5.9	∧ ∨
34	-25°	1187	2	53.7	-25	44.2	9.3	∧ ∨
35	-24°	1387	2	56.9	-24	66	4.1	∨
36	-25°	1169	2	51.8	-25	28.6	8.3	∧ ∨
37	-25°	1160	2	50.0	-25	48.3	6.9	∧ ∨
38	-26°	1063	2	47.3	-26	5.8	9.1	∧ ∨
39	-26°	1071	2	50.0	-26	27.0	7.6	∧ ∨
40	-26°	1077	2	50.9	-26	36.0	8.0	∧ ∨
41	-26°	1074	2	50.7	-26	42.4	7.6	∧ ∨
42	-26°	1072	2	50.0	-26	38.4	8.1	∧ ∨
43	-26°	1057	2	48.2	-26	40.0	8.6	∧ ∨
44	-27°	1007	2	47.1	-27	14.4	8.3	∧ ∨
45	-26°	1057	2	48.2	-26	49.2	8.6	∧ ∨
46	-26°	1033	2	44.7	-26	33.4	9.0	∧ ∨
47	-26°	1027	2	43.1	-26	57.9	8.9	∧ ∨
48	-26°	1025	2	42.5	-26	37.4	8.0	∧ ∨
49	-25°	1116	2	43.7	-25	48.3	9.0	∧ ∨
50	-25°	1120	2	44.3	-25	5.0	6.4	∨
51	-25°	1114	2	43.4	-25	7.7	7.8	∨
52	-25°	1110	2	42.4	-25	18.7	7.5	∧ ∨
53	-26°	1106	2	41.9	-25	53.3	9.1	∧ ∨
54	-26°	1102	2	41.1	-26	44.3	9.6	∧ ∨

Compare both of these stars?

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April 25, 1912
B 23780 short disp.

No.	Int.	Class	Remark
55	7	Ko	
56	3	ky5	
57	9	ky5	
58	1	Ko	
59	4	ky5	
60	2	Ko	E.
61	6	Ko	
62	4	Ko	
63	2	A	
64	7	ky5	
65	2	K	
66	5	ky5	
67	8	Ao	
68	2	ky	
69	2	Ma	
70	10	A2	
71	1	ky5	
72	1	K	
73	2	Ko	
74	5	ky5	
75	2	ky5	
76	1	ky	
77	1	ky	
78	1	F	
79	2	ky5	
80	10	ky5	
81	7	Ko	

55	-25°	1099	2	40.6	-25	51.8	7.5	∧∨
56	-25°	1097	2	40.4	-25	44.3	8.6	∧∨
57	-26°	996	2	38.7	-26	1.8	7.2	∧∨
58	-26°	1080 / 996	2	38.7	-26	38.8 / ~~7.2~~	8.6	∧∨
59	-25°	1076	2	37.2	-25	51.3	8.0	∧∨
60	-25°	1069	2	36.6	-25	50.8	8.1	∧∨
61	-25°	1093	2	39.8	-25	10.7	7.7	∧∨
62	-25°	1083	2	38.8	-25	23.3	8.9	∧∨
63	-25°	1070	2	~~36.6~~ 37.0	-25	~~11.2~~ 12.9	~~8.8~~ 9.2	∨
64	-26°	1192	3	7.6	-26	44.2	7.6	∧∨
65	-26°	1193	3	7.7	-26	30.2	9.0	∧∨
66	-26°	1180	3	6.1	-26	0.5	5.5	∧∨
67	-27°	1103	3	3.9	-27	10.8	7.5	∧∨
68	-26°	1160	3	3.4	-26	50.0	9.1	∧∨
69	-26°	1159	3	3.2	-26	55.7	8.1	∧∨
70	-28°	1028	3	2.5	-28	18.5	6.2	∨
71	-28°	1027	3	1.9	-28	~~24.8~~ 25.8	~~9.6~~ 9.6	∧∨
72	-28°	1022	3	0.9	-28	7.9	8.6	∧∨
73	-28°	1016	3	0.2	-28	8.4	8.9	∧∨
74	-28°	1014	2	59.9	-28	26.5	8.3	∧∨
75	-28°	995	2	57.4	-28	48.1	8.8	∧∨
76	-29°	1125	2	56.9	-29	13.4	9.3	∨
77	-28°	994	2	57.4	-28	30.5	8.8	∧∨
78	-28°	992	2	57.2	-28	21.1	9.6	∧∨
79	-28°	990	2	56.7	-28	29.1	8.7	∧∨
80	-28°	987	2	56.2	-28	34.8	6.0	∧∨
81	-28°	986	2	56.1	-28	56.8	7.5	∧∨

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April 21 1912

B33780 slant diafe.

No.	Int	Class	Remark
82	5	Ko	
83	5	A2	
84	8	ko	
85	2	k5	
86	1	k	
87	4	k5	
88	4	Ko	
89	4	Ko	
90	3	Ko	
91	3	Ko	
92	5	Ao	
93	2)	k	
94	7	k5	
95	5	Ao	
96	5	F8	
97	2	F8	
98	10	Ao	
99	9	k5	
100	3	k5	
101	3	Ao	
102	6	F5	
103	3	F5	
104	1	K2	
105	2)	Ko	
106	2)	k5	
107	1	k	
108	1	K	

82	-28°	978	2	54.8	-28	35.1	8.0	∧ ∨
83	-27°	1056	2	55.9	-27	58.3	8.3	∧ .
84	-28°	982	2	55.4	-28	7.9	7.5	∧ ∨
85	-27°	1055	2	55.8	-27	21.9	9.0	∧ ∨
86	-27°	1046	2	54.4	-27	37.3	9.2	∧ ∨
87	-27°	1043	2	53.3	-27	25.5	8.1	∧ ∨
88	-26°	1098	2	53.9	-26	39.0	8.1	∧ ∨
89	-26°	1094	2	52.6	-26	23.4	8.4	∧ ∨
90	-26°	1088	2	52.3	-26	3.9	8.6	∧ ∨
91	-28°	933	2	49.4	-28	24.4	8.5	∧ ∨
92	-28°	928	2	48.2	-28	21.8	8.6	∧ ∨
93	-28°	922	2	47.4	-28	41.1	9.3	∧ ∨
94	-28°	921	2	47.1	-28	27.8	7.3	∧ ∨
95	-28°	914	2	46.1	-28	8.5	8.3	∧ ∨
96	-28°	909	2	45.6	-28	39.1	8.4	∧ ∨
97	-28°	904	2	44.5	-28	37.5	9.4	∧ ∨
98	-28°	903	2	44.5	-28	27.5	5.6	∧ ∨
99	-29°	1106	2	53.8	-29	24.1	6.3	∧ ∨
100	-28°	967	2	52.9	-28	52.1	8.3	∧ ∨
101	-28°	961	2	52.4	-28	57.4	8.6	∧ ∨
102	-29°	1088	2	51.0	-29	27.2	7.7	∧ ∨
103	-29°	1087	2	50.9	-29	5.0	9.1	∧ ∨
104	-28°	970	2	53.1	-28	23.1	8.6	∧ ∨
105	-28°	963	2	52.5	-28	11.9	8.4	∧ ∨
106	-28°	959	2	52.3	-28	9.9	8.4	∧ ∨
107	-28°	953	2	51.9	-28	29.8	8.2	∧ ∨
108	-28°	935	2	49.6	-28	50.1	9.3	∧ ∨

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B 23780 short slits.

No.	Int.	Class	Remark
109	2	K5	
110	3	K5	
111	6	K0	
112	4	A	
113	3	K	E.
114	4	F5	
115	3	K0	E.
116	8	A	E.
117	7	K0	
118	3	K0	
119	2	K	
120	4	K5	
121	1	K	
122	4	F0	
123	7	F5	
124	7	K0	
125	2	K	
126	5	A0	
127	10	A5	
128	4	F2	
129	7	K0	
Lines 32, 38 130	7	F0	
131			
132			
133			
134			
135			

109	-29°	1073	2	49.1	-29	21.9	9.1
110	-28°	915	2	46.1	-28	57.5	9.0
111	-29°	1048	2	45.7	-29	31.4	8.5
112	-29°	1035	2	44.0	-29	34.9	8.6
113	-30°	1056	2	43.9	-30	4.3	8.9
114	-29°	1026	2	43.2	-29	3.4	9.1
115	-28°	1038	3	4.0	-28	50.6	8.4
116	-30°	1195	3	2.7	-30	47.3	7.3
117	-30°	1185	3	1.4	-30	28.0	7.1
118	-29°	1143	3	0.8	-29	17.0	8.3
119	-29°	1143	3	0.4	-29	36.7	8.7
120	-29°	1132	2	58.5	-29	44.0	8.3
121	-29°	1131	2	58.0	-29	32.2	8.8
122	-30°	1143	2	55.4	-30	12.6	8.4
123	-30°	1137	2	54.5	-30	40.6	7.7
124	-30°	1146	2	55.7	-30	51.6	7.3
125	-30°	1157	2	56.7	-30	57.1	8.5
126	-30°	1160	2	57.1	-30	58.6	8.7
127	-30°	1182	2	51.9	-30	21.6	6.3
128	-30°	1097	2	49.5	-30	7.6	8.5
129	-30°	1096	2	49.3	-30	21.3	7.5
130	-30°	1086	2	47.9	-30	20.6	8.0

Identified by J.C.M. July 18, 1912
Checked by E.D.W. July 22 1912
Excepting Nos. 1, 2, 3, 18, 19, 20, 23, 85, 50, 51, 52
which were identified by E.D.W. & checked by J.C.M.

Corrections for slit
63 and 118 doubled
E.A.J.C.

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Wednesday, April 25 1912

Time: 23. 48

I 37333

No.	Int.	Class	Remark
1	4	Bg	
2	2	Ly5	E.
3	6	F5	E.
4	2	K	E.
5	3	A	E.
6	3	B8	
7	2	Ly	
8	5	Ly0	
9	3	Ly5	
10	2	Ly	
11	6	F5	
12	8	Ly	Another star suspected?
12a	2	K5	
13	1	A0	
14	4	A0	
15	1	F	
16	9	Ly5	
17	2	Ly5	
18	3	Ly5	
19	5	A0	
20	3	Ly0	
21	7	Ly5	
22	2	F5	
23	2	G	
23a	9	K5	
24	7	Ly3	
25	1	Ly	An edge on star, side of 24.
26	2	A0	
27	10	A5	

1	+63°	1545	19	36.2	+63	42.6	7.8 ✓
2	+63°	1549	19	37.0	+63	8.9	8.5 ✓
3	+62°	1747	19	38.8	+62	19.1	7.5 ✓
4	+63°	1553	19	38.4	+63	34.7	8.3 ✓
5	+63°	1554	19	38.6	+63	41.0	8.9 ✓
6	+63°	1586	19	41.1	+63	41.2	8.8 ✓
7	+64°	1378	19	41.5	+64	4.5	8.8 ✓
8	+64°	1377	19	41.2	+64	21.0	8.5 ✓
9	+64°	1379	19	41.7	+64	50.3	9.0 ✓
10	+64°	1382	19	43.0	+64	10.7	8.8 ✓
11	+63°	1561	19	44.4	+63	9.3	7.5 ✓
12	+63°	1564	19	46.2	+63	22.9	7.5 ✓
12a	+63°	1563	19	46.1	+63	40.2	8.0 ✓
13	+62°	1759	19	47.6	+62	50.2	6.7 ✓
14	+63°	1570	19	49.5	+63	12.1	8.5 ✓
15	+63°	1569	19	49.4	+63	06.8	9.3 ✓
16	+63°	1574	19	51.2	+63	47.6	7.0 ✓
17	+63°	1575	19	51.4	+63	30.0	8.5 ✓
18	+62°	1769	19	53.2	+62	56.7	8.5 ✓
19	+63°	1577	19	53.4	+63	4.0	8.5 ✓
20	+63°	1579	19	53.8	+63	24.0	8.8 ✓
21	+64°	1398	19	53.4	+64	20.2	6.3 ✓
22	+64°	1399	19	54.6	+64	43.7	9.3 ✓
23	+64°	1402	19	58.2	+64	49.2	9.0 ✓
23a	+64°	1405	19	59.9	+64	25.1	5.0 ✓
24	+65°	1461	20	0.8	+64	12.6	6.5 ✓
25	+64°	1406	20	0.6	+64	15.9	8.0 ✓
26	+63°	1583	19	56.4	+63	36.8	8.3 ✓
27	+63°	1584	19	56.7	+63	9.3	6.5 ✓

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No.	Int.	Class	Remark
28	6	F0	
29	3	ly	
30	2	ly5	
31	4	K0	
32	4	F2	
33	4	A3	
34	3	ly5	
35	2	A2	
36	4	ly5	
37	10	A3	
38	1	ly	
39	2	ly0	
40	7	A0	
41	4	ly5	
42	4	K0	
43	3	F8	
44	9	K0	
45	8	A0	
46	9	F5	
47	1	F8	
48	4	A0	
49	1	ly	
50	5	Bq	
51	2	F2	
52	2	K0	
53	10	B8	E.
54	3	ly5	

28	+62°	1773	19.0	55.3	+62	29.1	7.2	✓
29	+62°	1774	19	56.9	+62	34.0	8.5	✓
30	+62°	1775	19	56.6	+62	45.2	9.0	✓
31	+62°	1776	19	57.0	+62	39.6	8.3	✓
32	+62°	1768	19	53.2	+62	11.8	7.5	✓
33	+62°	1765	19	51.2	+62	10.1	8.4	✓
34	+63°	1585	19	58.0	+63	23.0	8.1	✓
35	+63°	1589	19	59.8	+63	15.1	9.0	✓
36	+63°	1591	20	1.5	+63	25.9	8.5	✓
37	+63°	1593	20	2.9	+63	28.9	6.5	✓
38	+63°	1594	20	3.4	+63	21.1	9.0	✓
39	+63°	1595	20	3.6	+63	16.9	8.6	✓
40	+63°	1597	20	4.9	+63	16.7	7.5	✓
41	+63°	1599	20	5.3	+63	2.0	8.2	✓
42	+62°	1791	20	4.2	+62	39.8	8.2	✓
43	+62°	1790	20	4.1	+62	18.8	8.5	✓
44	+61°	1970	20	3.2	+61	33.6	5.0	✓
45	+61°	1975	20	6.6	+61	38.8	5.2	✓
46	+61°	1983	20	9.2	+61	39.0	5.8	✓
47	+62°	1793	20	8.3	+62	16.3	9.0	✓
48	+63°	1601	20	7.3	+63	38.3	8.6	✓
49	+63°	1604	20	8.1	+63	8.8	9.0	✓
50	+63°	1605	20	9.6	+63	5.8	7.8	✓
51	+62°	1796	20	11.7	+62	44.2	8.5	✓
52	+61°	1996	20	14.9	+61	41.4	8.2	✓
53	+61°	2000	20	17.2	+61	47.8	5.8	✓
54	+63°	1613	20	16.0	+63	38.8	8.0	✓

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I 37322

Nr.	Int.	Class	Remark
55	3	A0	
56	5	K5	
57	4	K0	
58	7	M5	
59	2	F5	
60	2	B9	
61	3	G5	
62	2	A0	
63	1	F	
64	2	F5	Difficult
65	2	G5	
66	10	A2	
67	3	F0	
68	2	F8	
69	1	F	
70	1	A	
71	7	K0	
72	2	F2	
73	3	B9	
74	3	F	
75	3	A0	
76	2	A0	
77	2	A5	
78	2	A	
79	10+	A3	
80	2	K2	
81	2	F	

55	+63°	1614	20	17.0	+63	5.4	8.5	✓
56	+62°	1807	20	19.1	+62	58.5	6.8	✓
57	+63°	1617	20	18.7	+63	35.8	8.0	✓
58	+63°	1618	20	19.2	+63	31.8	5.9	✓
59	+63°	1619	20	19.6	+63	43.2	8.5	✓
60	+63°	1621	20	20.8	+63	43.7	8.6	✓
61	+63°	1623	20	21.4	+63	43.3	8.0	✓
62	+64°	1440	20	21.7	+64	14.9	8.9	✓
63	+64°	1442	20	23.4	+64	5.8	9.4	✓
64	+64°	1443	20	23.7	+64	20.3	9.0	✓
65	+64°	1444	20	25.4	+64	9.4	8.6	✓
66	+65°	1466	20	26.2	+65	16.3	6.3	✓
67	+65°	1468	20	26.5	+65	22.2	8.5	✓
68	+65°	1471	20	27.4	+65	0.1	9.0	✓
69	+64°	1445	20	27.4	+64	41.4	9.0	✓
70	+64°	1446	20	28.1	+64	18.4	9.2	✓
71	+64°	1449	20	30.3	+64	53.2	6.8	✓
72	+65°	1477	20	30.6	+65	9.9	9.0	✓
73	+65°	1482	20	33.5	+65	3.6	8.8	✓
74	+64°	1450	20	31.1	+64	11.6	8.1	✓
75	+64°	1451	20	32.1	+64	11.9	8.5	✓
76	+63°	1453 / 1635	20	33.4	+64	0.6	9.2	✓
77	+63°	1634	20	32.7	+63	44.1	8.8	✓
78	+63°	1633	20	30.9	+63	17.8	8.5	✓
79	+62°	1821	20	27.2	+62	31.0	4.0	✓
80	+62°	1823	20	28.5	+62	46.0	8.5	✓
81	+62°	1824	20	29.1	+62	47.2	9.0	✓

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No.	Int.	Class	Remark
82	4	Bq	
83	4	A3	E.
84	4	F8	E.
85	7	A0	E.
86	1	B8	E.
87	3	G5	E.
88	4	F0	E.
89	5	B	Maybe Ba. E.
90	5	F2	E.
91	2	G	
92	3	A0	
93	2	A	
94	4	K5	
95	2	F8	
96	4	F8	
97	4	G0	
98	3	F2	
99	4	F0	
100	6	B8	
101	7	A0	
Time 0.08 102	6	B5	Line K strikes strong for this class.
" 21.27 103	2	A3	
104	2	F	
105	2	G5	
106	2	A	
107	5	Bq	E.
108	10+	G	E.

82	+61°	~~1826~~ 2026	20m	29.8	+62	58.1 ~~0.6~~	7.8 ~~8.5~~	✓
83	+60°	2125	20m	22.4	+60	49.6	7.8	✓
84	+61°	2012	20m	28.3	+61	6.4	8.2	✓
85	+61°	2028	20m	31.2	+61	15.8	7.3	✓
86	+61°	2031	20m	32.4	+61	31.6	8.5	✓
87	+61°	2033	20m	32.5	+61	58.1	8.0	✓
88	+61°	2039	20m	34.0	+61	55.6	8.0	✓
89	+61°	2037	20m	33.7	+61	30.5	8.1	✓
90	+60°	2139	20m	34.3	+60	51.2	7.0	✓
91	+62°	1832	20m	32.6	+62	58.8	8.9	✓
92	+62°	1833	20m	33.2	+62	58.4	9.0	✓
93	+63°	1639	20m	34.8	+63	1.5	9.0	✓
94	+63°	1640	20m	34.9	+63	51.5	8.0	✓
95	+63°	1641	20m	35.1	+63	38.8	9.2	✓
96	+63°	1642	20m	35.9	+63	44.1	8.3	✓
97	+63°	1645	20m	36.6	+63	59.2	8.8	✓
98	+63°	1644	20m	36.3	+63	22.5	8.5	✓
99	+63°	1647	20m	37.8	+63	41.7	8.0	✓
100	+62°	1850	20m	39.8	+62	49.7	8.0	✓
101	+62°	1852	20m	40.1	+62	41.1	7.7	✓
102	+62°	1854	20m	40.8	+62	41.2	7.8	✓
103	+62°	1841	20m	36.0	+62	30.7	8.8	✓
104	+62°	1840	20m	35.0	+62	11.3	8.6	✓
105	+62°	1847	20m	38.3	+62	17.7	8.0	✓
106	+62°	1848	20m	39.4	+62	5.0	8.8	✓
107	+61°	2061	20m	42.7	+61	52.1	8.2	✓
108	+61°	2050	20m	42.4	+61	17.0	8.7	✓

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Flmsky, April 26, 1912

I 37333

No.	Int.	Class	Remark
109	1	A	E.
110	4	B8	E.
111	3	A	E.
112	2	A	E.
113	4	A5	
114	6	F0	
115	9	B0	
116	4	F0	
117	3	A	E.
118	1	K	
119	3	A3	
120	2	"	ly
121	5	A3	E.
122	3	F0	
123	2	ly5	
124	3	A0	
125	2	ly5	
126	7	A2	
127	3	A5	
128	1	K	
129	3	ly5	
130	2	F8	
131	3	F5	
132	2	K0	
133	4	F8	Another star superposed?
134	5	ly5	
135	3	A3	

109	+62°	1858	20	43.8	+62	5.5	9.0 ✓
110	+61°	2057	20	46.4	+61	59.1	8.0 ✓
111	+61°	2059	20	46.7	+61	48.9	8.2 ✓
112	+61°	2062	20	47.4	+61	60.7	8.2 ✓
113	+63°	1655	20	42.7	+63	0.7	8.3 ✓
114	+63°	1660	20	44.3	+63	27.2	7.8 ✓
115	+63°	1663	20	46.8	+63	29.8	6.5 ✓
116	+63°	1667	20	47.8	+63	18.1	8.1 ✓
117	+63°	1669	20	49.0	+63	14.4	8.5 ✓
118	+63°	1662	20	46.5	+63	53.7	8.6 ✓
119	+64°	1470	20	47.0	+64	4.4	8.6 ✓
120	+64°	1471	20	47.4	+64	3.7	8.4 ✓
121	+65°	1369	~~20~~ 18	33.1	+65	12.7	7.5 ✓
122	+65°	1381	~~20~~ 19	38.1	+65	4.0	7.5 ✓
123	+65°	1384	~~20~~ 19	38.4	+65	1.8	7.6 ✓
124	+64°	1374	19	39.3	+64	27.6	8.9 ✓
125	+65°	1389	19	40.0	+65	16.4	8.3 ✓
126	+66°	1225	19	38.9	+66	7.8	7.9 ✓
127	+66°	1226	19	39.8	+66	22.3	8.4 ✓
128	+66°	1227	19	39.9	+66	36.1	8.7 ✓
129	+66°	1233	19	42.9	+66	12.0	8.0 ✓
130	+65°	1400	19	46.0	+65	2.3	8.2 ✓
131	+64°	1386	19	46.0	+64	20.3	8.0 ✓
132	+65°	1404	19	47.0	+65	5.0	8.5 ✓
133	+65°	1406	19	48.2	+65	26.0	8.5 ✓
134	+65°	1409	19	50.1	+65	9.8	7.2 ✓
135	+65°	1416	19	54.4	+65	27.6	9.0 ✓

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No.	Int.	Class	Remark
136	2	F5	
137	8	F0	
138	3	F5	
139	8	K0	
140	2	A2	
141	4	F5	
142	2	K2	
143	5	K0	
144	4	G0	
145	2	G	
146	8	A2	Line 4077, H 3933, 31 strong
147	3	F2	
148	3	K0	
149	5	F5	
150	2	B8	
151	3	B8	
152	1	A	
153	2	A2	
154	9	A0	
155	3	F5	
156	6	A5	
157	5	A5	
158	2	K0	
159	4	F0	
160	2	F8	
161	2	A	
162	5	F0	

136	+65°	1418	19	55.1	+65	55.9	8.4	✓
137	+66°	1253	19	51.8	+66	19.4	7.0	✓
138	+66°	1255	19	53.6	+66	16.4	8.5	✓
139	+66°	1256	19	54.2	+66	21.4	6.8	✓
140	+66°	1252	19	51.3	+66	41.6	8.8	✓
141	+66°	1254	19	51.8	+66	41.2	8.4	✓
142	+67°	1210	19	53.0	+67	7.4	8.5	✓
143	+67°	1211	19	54.0	+67	7.2	7.7	✓
144	+67°	1213	19	56.8	+67	14.8	8.7	✓
145	+67°	1214	19	57.4	+67	29.2	8.9	✓
146	+67°	1216	19	58.3	+67	3.9	7.4	✓
147	+67°	1217	19	58.6	+67	5.2	8.8	✓
148	+66°	1262	~~20~~ 19	57.4	+66	23.9	8.8	✓
149	+65°	1423	20	0.7	+65	28.5	8.0	✓
150	+65°	1425	20	1.7	+65	27.7	9.0	✓
151	+65°	1426	20	2.8	+65	37.8	9.1	✓
152	+65°	1427	20	2.9	+65	53.1	9.6	✓
153	+66°	1267	20	4.4	+66	2.5	8.5	✓
154	+65°	1433	20	5.8	+65	53.1	7.0	✓
155	+65°	1432	20	4.8	+65	16.3	8.8	✓
156	+64°	1415	20	5.9	+64	46.7	7.2	✓
157	+64°	1417	20	6.2	+64	44.5	7.9	✓
158	+64°	1414	20	5.0	+64	27.7	8.5	✓
159	+64°	1416	20	6.1	+64	10.6	8.1	✓
160	+63°	1603	20	7.8	+63	55.9	9.0	✓
161	+64°	1421	20	9.8	+64	27.7	9.0	✓
162	+64°	1423	20	10.1	+64	4.8	8.4	✓

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No.	Int.	Class	Remark
162a	1	F5	Partly superposed on 162
163	2	K5	
164	6	K5	
165	3	K5	
166	2	K5	
167	3	K5	
168	3	A2	
169	2	F	
170	3	A5	
171	3	K2	
172	2	A	
173	5	K0	
174	2	K0	
175	10	F8	
176	5	F5	
177	3	A2	
178	1	F5	
179	7	F8	
180	7	K0	
181	6	F8	
182	2	K	
183	5	K0	
184	3	K0	
185	3	F	
186	3	F8	
187	4	K5	
188	4	K5	

162a	+64°	1424	20	10.2	+64	4.4	9.0	✓
163	+64°	1426	20	11.0	+64	26.4	8.9	✓
164	+64°	1427	20	12.4	+64	19.4	6.9	✓
165	+63°	1608	20	13.4	+63	44.6	8.7	✓
166	+64°	1428	20	13.7	+64	21.3	8.5	✓
167	+64°	1430	20	16.6	+64	24.2	7.4	✓
168	+64°	1432	20	16.7	+64	12.0	8.4	✓
169	+64°	1434	20	18.4	+64	0.9	9.0	✓
170	+64°	1435	20	19.0	+64	10.4	9.0	✓
171	+64°	1436	20	19.6	+64	13.9	7.5	✓
172	+64°	1437	20	19.9	+64	9.9	9.3	✓
173	+66°	1276	20	11.3	+66	1.5	7.8	✓
174	+66°	1278	20	13.0	+66	37.8	8.7	✓
175	+66°	1281	20	16.1	+66	23.3	6.2	✓
176	+65°	1443	20	14.2	+65	24.7	7.7	✓
177	+66°	1286	20	19.3	+66	14.1	8.8	✓
178	+66°	1288	20	20.4	+66	40.9	9.2	✓
179	+66°	1290	20	21.4	+66	32.1	8.7	✓ +66° 1289 Superposed
180	+66°	1292	20	24.4	+66	39.8	7.3	✓
181	+67°	1249	20	25.0	+67	10.3	9.0	✓
182	+67°	1251	20	25.6	+67	5.5	8.8	✓
183	+67°	1252	20	26.8	+67	24.1	8.3	✓
184	+66°	1303	20	28.7	+66	56.8	8.8	✓
185	+65°	1465	20	24.8	+65	59.7	9.1	✓
186	+66°	1302	20	28.7	+66	15.0	8.9	✓
187	+65°	1473	20	28.5	+65	44.3	8.9	✓
188	+65°	1475	20	28.8	+65	34.0	8.4	✓

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No.	Int.	Class	Remark
189	4	[illegible]	Another star superposed? Jea
189a	1	[illegible]	
190	9	[illegible]	
191	5	F8	
192	3	F8	
193	5	F2	
194	4	A5	
195	3	F0	
196	3	F5	
197	2	F5	Difficult
198	3	F0	
199	5	B8	
200	2	K2	
201	3	A0	
202	2	A	Maybe B8
203	5	A5	
204	3	ly	Partly superposed on 203. Look up.
205	8	Bq	
206	3	ly	
207	10	A5	
208	2	ly	E.
209	2	ly	
210	1	F5	Partly superposed on 211. F5 ~ 35808
211	7	Bq	
212	2	A	
213	9	F0	
214	1	K	
215	8	Bq	E.

189	+66°	1308	20	31.6	+66	48.7	8.2	✓
189a	+66°	1307	20	31.5	+66	46.[illegible]	9.1	✓
190	+66°	1311	20	35.6	+66	59.8	7.4	✓
191	+66°	1313	20	38.2	+66	52.3	8.1	✓
192	+67°	1261	20	38.5	+67	17.8	8.9	✓
193	+65°	1485	20	35.8	+65	51.2	8.4	✓
194	+65°	1488	20	37.2	+65	54.3	8.8	✓
195	+65°	1486	20	36.3	+65	18.8	9.1	✓
196	+66°	1489	20	37.3	+65	36.5	8.9	✓
197	+64°	1456	20	36.7	+64	58.8	9.0	✓
198	+64°	1454	20	35.2	+64	23.2	8.8	✓
199	+64°	1457	20	37.2	+64	38.2	8.0	✓
200	+64°	1460	20	39.2	+64	31.2	8.2	✓
201	+64°	1464	20	41.2	+64	34.1	8.8	✓
202	+65°	1494	20	39.6	+65	59.4	8.9	✓
203	+66°	1316	20	40.3	+66	28.4	8.3	✓
204	+66°	1315	20	40.2	+66	24.4	8.6	✓
205	+65°	1499	20	40.9	+65	48.5	7.0	✓
206	+65°	1500	20	41.5	+65	41.0	8.5	✓
207	+66°	1318	20	41.4	+66	7.9	5.5	✓
208	+66°	1319	20	42.0	+66	3.1	8.9	✓
209	+66°	1321	20	43.2	+66	29.5	8.6	✓
210	+66°	1325	20	44.6	+66	38.9	9.2	✓
211	+66°	1326	20	44.8	+66	45.0	7.7	✓
212	+67°	1266	20	46.0	+67	14.3	9.0	✓
213	+67°	1267	20	46.8	+67	29.4	6.5	✓
214	+65°	1504	20	43.8	+65	59.4	9.0	✓
215	+65°	1518	20	53.2	+65	7.5	7.3	✓

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No.	Int.	Class	Remark
216	5	fg5	E.
217	4	Ko	E.
218	4	Ko	E.
219	3	A	E.
220	4	Ko	E.
221	4	Ko	
222	10	fg5	Burned out.
223	7	Fe2	
224	5	B8	
225	2	fg	Poor focus.
226	5	Mb	
227	2	A5	
228	3	A5	
229	8	fg5	
230	3	F5	
231	3	A0	
232	2	A0	
233	2	F8	
234	2	A0	
235	1	A0	Partly superposed on 234.
236	2	A	" " " 237
237	2	F5	
238	7	F0	
239	4	fg5	
240	4	F2	
241	5	F5	
242	4	A3	

216	+67°	1156	19	28.6	+67	19.7	7.5	✓
217	+67°	1157	19	28.9	+67	52.6	8.0	✓
218	+67°	1162	19	31.5	+67	22.9	8.0	✓
219	+68°	1066	19	27.8	+68	21.3	8.7	✓
220	+68°	1071	19	30.9	+68	25.8	8.2	✓
221	+69°	1052	19	31.6	+69	14.3	8.2	✓
222	+69°	1053	19	32.6	+69	24.6	5.0	✓
223	+70°	1073	19	32.1	+70	40.7	6.3	✓
224	+69°	1057	19	35.0	+69	56.2	8.2	✓
225	+69°	1056	19	34.7	+69	28.0	8.5	✓
226	+69°	1058	19	35.9	+69	28.4	8.0	✓
227	+69°	1060	19	37.6	+69	24.1	8.8	✓
228	+68°	1075	19	38.0	+68	39.4	8.8	✓
229	+68°	1077	19	39.2	+68	19.6	7.5	✓
230	+67°	1187	19	41.4	+67	12.0	8.5	✓
231	+66°	1239	19	44.9	+66	32.4	9.0	✓
232	+66°	1242	19	46.2	+66	38.3	8.8	✓
233	+66°	1243	19	46.8	+66	13.6	8.7	✓
234	+65°	1897	19	44.3	+65	48.8	9.0	✓
235	+65°	1398	19	44.4	+65	50.1	9.3	✓
236	+67°	1193	19	44.4	+67	35.4	9.2	✓
237	+67°	1194	19	44.5	+67	41.0	8.7	✓
238	+67°	1201	19	45.6	+67	22.6	7.6	✓
239	+67°	1200	19	45.6	+67	7.0	7.4	✓
240	+66°	1244	19	46.9	+66	55.6	8.7	✓
241	+66°	1250	19	49.4	+66	56.3	8.0	✓
242	+67°	1206	19	50.5	+67	12.3	8.7	✓

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Nr.	Int.	Class	Remark
243	10	A0	
244	9	F0	
245	2	G5	
246	3	A3	
247	3	K2	
248	2	K	
249	5	F0	
250	4	A0	
251	10+	G	Burned out.
252	8	G5	
253	3	G5	
254	1	G5	
255	8	A0	
256	7	A2	
257	6	B9	
258	10	K0	
259	2	F5	
260	2	A0	
261	2	F5	
262	7	Ma	
263	5	B9	
264	4	F2	
265	6	K0	
266	7	F2	
267	8	B3	
268	2	G0	
269	2	F5	

r43	+68°	1079	19	44.5	+68	59.5	6.2	✓
r44	+68°	1082	19	46.6	+68	4.4	6.4	✓
r46	+67°	1207	19	50.8	+67	51.7	8.0	✓
r46	+68°	1084	19	50.4	+68	15.8	8.3	✓
r47	+69°	1065	19	41.4	+69	34.9	8.0	✓
r48	+68°	1078	19	43.5	+68	59.1	8.5	✓
r49	+69°	1067	19	43.6	+69	9.0	8.3	✓
r50	+69°	1069	19	46.4	+69	33.9	8.0	✓
r51	+69°	1070	19	48.6	+69	53.2	3.8	✓
r52	+69°	1084	19	59.1	+69	57.6	6.5	✓
r53	+69°	1085	19	59.4	+69	58.9	8.3	✓
r54	+68°	1095	19	58.0	+68	44.8	8.8	✓
r55	+69°	1086	19	59.7	+69	0.4	7.8	✓
r56	+68°	1096	19	58.2	+68	1.5	7.5	✓
r57	+68°	1097	19	59.7	+68	3.9	7.5	✓
r58	+67°	1222	20	2.2	+67	27.3	5.1	✓
r59	+66°	1226	20	1.3	+66	40.7	8.8	✓
r60	+66°	1267	20	2.0	+66	38.4	8.8	✓
r61	+67°	1223	20	2.3	+67	66.6	8.8	✓
r62	+67°	1226	20	4.3	+67	37.3	7.0	✓
r63	+67°	1227	20	5.8	+67	53.3	8.5	✓
r64	+67°	1229	20	7.1	+67	38.7	8.2	✓
r65	+68°	1110	20	8.8	+68	10.8	7.4	✓
r66	+67°	1233	20	9.6	+67	51.7	7.7	✓
r67	+67°	1235	20	10.3	+67	49.7	6.9	✓
r68	+66°	1273	20	6.9	+66	25.4	8.8	✓
r69	+66°	1274	20	7.3	+66	51.3	9.1	✓

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No.	Int.	Class	Remark
270	9	Nb	
271	8	A3	
272	6	g5	
273	7	g5	
274	4	F5	
275	3	F8	
276	2	F1	Confirmed on 83708
277	1	F8	
278	4	F8	E.
279	4	Nb	
280	5	A3	
281	7	g5	
282	4	A0	Partly superposed on 283.
283	8	A	
284	1	A	E.
285	3	A	E.
286	4	A2	E.
287	9	K	E.
288	6	A	
289	7	A0	
290	5	g	
291	5	K3	
292	2	g5	
293	2	Nb	
294	3	W	
295	5	F0	
296	2	M0	

270	+68°	1121	20	19.4	+68	24.8	6.0	✓
271	+69°	1099	20	21.8	+69	2.7	7.7	✓
272	+68°	1126	20	25.5	+68	53.0	7.0	✓
273	+68°	1129	20	26.5	+68	17.7	7.2	✓
274	+67°	1248	20	24.5	+67	48.3	8.5	✓
275	+67°	1241	20	20.2	+67	51.0	8.8	✓
276	+66°	1285	20	19.0	+66	58.2	9.0	✓
277	+67°	1243	20	21.4	+67	0.8	9.2	✓
278	+68°	1183	20	29.8	+68	45.7	8.5	✓
279	+69°	1112	20	32.7	+69	9.7	7.8	✓
280	+68°	1137	20	32.3	+68	21.3	8.5	✓
281	+69°	1114	20	34.7	+69	9.7	7.0	✓
282	+69°	1110	20	31.7	+69	57.6	8.3	✓
283	+70°	1126	20	32.1	+70	3.1	6.8	✓
284	+69°	1116	20	34.8	+69	59.9	9.0	✓
285	+69°	1120	20	40.4	+69	23.5	8.7	✓
286	+69°	1122	20	42.4	+69	8.7	8.5	✓
287	+69°	1127	20	43.6	+69	13.3	6.7	✓
288	+69°	1129	20	45.7	+69	24.4	7.5	✓
289	+69°	1130	20	47.4	+69	6.9	7.0	✓
290	+68°	1157	20	47.1	+68	35.8	8.1	✓
291	+70°	1102	20	1.9	+70	3.2	8.1	✓
292	+69°	1088	20	1.1	+69	32.4	8.5	✓
293	+69°	1090	20	1.8	+69	28.2	8.2	✓
294	+68°	1103	20	4.6	+68	43.8	8.7	✓
295	+70°	1105	20	6.8	+70	13.2	7.7	✓
296	+70°	1106	20	9.4	+70	19.6	7.7	✓

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H 37333

No.	Int	Class	Remark
297	4	A2	E.
298	5	F0	E.
299	7	A5	E.
300	3	A0	

Time 22.21ᵐ

301	1	K0	

297	+70°	1108	20	10.3	+70	24.6	8.2 ✓
298	+70	1111	20	13.6	+70	39.8	7.8 ✓
299	+70°	1115	20	18.3	+70	19.1	7.5 ✓
300	+69°	1100	20	21.9	+69	40.6	8.6 ✓

Identified by Ames. May 24, 1912

301	+70°	1118	20	23.1	+70	37	7.8

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Wednesday, April 30, 1919

Time: 22. 54

I 37348

No.	Int.	Class	Remark
1	4	Ly5	Image hazy E.
2	8	Bg	E.
3	1	K	E.
4	4	Mb	E.
5	5	F5	E.
6	8	K0	E.
7	7	A0	E.
8	5	A0	E.
9	9	B5	
10	2	A0	
11	5	K0	
12	3	A2	
13	5	F0	
14	2	F5	
15	4	F2	
16	8	F8	
17	7	B8	
18	9	A3	Metallic lines clearly seen.
19	8	F8	
20	3	F5	
21	5	F0	
22	4	A0	
23	6	Ly0	
24	2	A0	
25	2	Ma	
26	2	Bg	
27	4	Ma	

1	+41°	3164	18	47.2	+41	18.2	8.0	J
2	+41°	3167	18	47.5	+41	12.6	6.5	√
3	+41°	3165	18	47.2	+41	33.4	7.3	√
4	+40°	3512	18	48.6	+40	49.1	6.8	√
5	+41°	3174	18	49.5	+41	3.2	7.1	√
6	+41°	3177	18	50.2	+41	25.4	5.5	J
7	+40°	3586	18	50.8	+40	57.6 −0.7	6.7 8.6	J
8	+39°	3593	18	53.4	+39	26.6	6.8	√
9	+40°	3544	18	54.0	+40	29.0	6.5	√
10	+41°	3189	18	51.6	+41	15.8	8.8	J
11	+41°	3182	18	51.0	+41	52.3	7.0	√
12	+42°	3196	18	57.3	+42	0.6	8.8	√
13	+41°	3196	18	52.8	+41	54.6	7.3	J
14	+42°	3200	18	52.2	+42	20.8	8.5	√
15	+42°	3206	18	53.6	+42	29.1	8.1	J
16	+42°	3208	18	54.4	+42	44.3	8.3	√
17	+42°	3212	18	54.9	+42	48.5	7.5	J
18	+43°	3138	18	55.5	+43	2.6	6.9	J
19	+42°	3219	18	56.2	+42	3.3	6.6	J
20	+42°	3223	18	56.7	+42	11.1	8.4	J
21	+41°	3206	18	55.9	+41	29.0	7.5	√
22	+41°	3208	18	56.5	+41	12.5	7.8	√
23	+41°	3210	18	57.0	+41	17.0	7.2	J
24	+41°	3209	18	56.9	+41	38.8	8.7	J
25	+41°	3200	18	54.7	+41	26.2	8.0	√
26	+41°	3198	18	54.3	+41	3.7	8.5	J
27	+40°	3555	18	58.6	+40	29.0	6.9	J

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F 37348

No.	Int.	Class	Remark
28	7	Bq	E.
29	2	A	
30	2	A	
31	3	A0	
32	4	A2	
33	3	K5	
34	2	A	E.
35	5	A0	
36	2	K5	
37	1	K	
38	3	Bq	
39	9	B3	
40	3	Bq	
41	2	F5	Difficult
42	7	B5	
43	2	F8	
44	2	G0	
45	2	A2	
46	2	A	Difficult
47	6	B8	
48	8	Bq	
49	8	B8	
50	2	F	
51	4	F0	
52	4	Ma	
53	2	A	
54	9	A0	

28	+39°	36 06 07	18ᵐ	55.7	+39	38.6 39.6	7.0 7.0	✓
29	+40°	3564	18	56.6	+40	23.6	8.3	✓
30	+40°	3568	18	57.4	+40	31.3	8.5	✓
31	+39°	3630 28	18	58.8 59.2	+39	47 54.3	7.8 7.5	✓ Exchanged July 13, 1916 by g.h.m.
32	+40°	3579	18	59.4	+40	20.5	7.7	✓
33	+40°	3581	18	59.5	+40	47.2	8.0	✓
34	+39°	3633	19	0.3	+39	54.5	8.1	✓
35	+41°	3219	18	59.2	+41	45.4	7.5	✓
36	+41°	3220	18	59.5	+41	25.4	8.6	✓
37	+41°	3225	19	0.2	+41	11.7	8.3	✓
38	+41°	3227	19	0.6	+41	12.1	8.6	✓
39	+41°	3232	19	1.6	+41	11.9	6.3	✓
40	+41°	3234	19	1.9	+41	17.7	8.3	✓
41	+41°	3236	19	2.2	+41	23.1	8.5	✓
42	+40°	3596	19	2.6	+40	49.6	6.8	✓
43	+41°	3241	19	3.1	+41	42.0	9.0	✓
44	+41°	3242	19	3.3	+41	29.9	8.3	✓
45	+41°	3251	19	5.6	+41	16.4	9.0	✓
46	+41°	3254	19	6.0	+41	22.6	8.8	✓
47	+41°	3257	19	6.3	+41	31.8	8.0	✓
48	+41°	3253	19	5.9	+41	46.5	7.2	✓
49	+42°	3258	19	5.9	+42	22.5	7.0	✓
50	+41°	3263	19	7.2	+41	52.0	8.7	✓
51	+41°	3264	19	7.5	+41	37.4	7.8	✓
52	+40°	3624	19	7.6	+40	59.5	7.2	✓
53	+40°	3622	19	6.7	+40	26.6	8.3	✓
54	+40°	3620	19	6.6	+40	11.6	6.3	✓

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No.	Int.	Class	Remark
55	3	A	Partly superposed on 56.
56	3	K	Difficult, due to image of 55.
57	3	A2	
58	2	A	
59	2	K	
60	3	A0	
61	2	F5	E.
62	5	B9	E.
63	4	K0	
64	1	K	
65	2	A2	
66	2	K0	
67	2	A	
68	5	G5	
69	2	F8	
70	3	B9	
71	2	F0	
72	2	G5	
73	8	A0	
74	4	A0	
75	2	K5	
76	2	A0	
77	5	G5	E.
78	2	A	
79	2	A	
80	5	B8	
81	4	A0	

55	+39°	3676	19	7.0	+39	46.4	8.0	✓
56	+39°	3675	19	7.0	+39	47.5	7.2	✓
57	+40°	3627	19	7.9	+40	23.1	8.3	✓
58	+40°	3631	19	8.6	+40	28.9	8.8	✓
59	+40°	3635	19	9.3	+40	19.0 18.5	8.8	✓
60	+40°	3637	19	9.7	+40	11.9	8.5	✓
61	+39°	3686	19	8.6	+39	59.8	8.4	✓
62	+39°	3699	19	10.5	+39	51.6	7.8	✓
63	+40°	3645	19	10.9	+40	6.6	7.0	✓
64	+41°	3271	19	9.1	+41	29.8	8.0	✓
65	+41°	3273	19	9.6	+41	3.6	8.5	✓
66	+41°	3281	19	10.8	+41	20.7	8.0	✓
67	+40°	3640	19	10.5	+40	25.3	8.7	✓
68	+41°	3292	19	12.4	+41	0.4	7.0	✓
69	+41°	3296	19	13.0	+41	8.9	8.5	✓
70	+41°	3301	19	13.9	+41	20.3	8.2	✓
71	+40°	3669	19	14.7	+40	56.9	8.0	✓
72	+41°	3312	19	14.8	+41	0.1	7.5	✓
73	+40°	3665	19	14.1	+40	5.7	6.6	✓
74	+40°	3671	19	14.8	+40	18.5	7.7	✓
75	+40°	3670	19	14.8	+40	0.0	7.1	✓
76	+39°	3725	19	15.2	+39	38.6	8.7	✓
77	+39°	3731	19	15.6	+39	39.4	6.5	✓
78	+40°	3678	19	15.8	+40	39.3 48.7	8.2	✓
79	+40°	3685	19	16.9	+40	47.2	8.8	✓
80	+40°	3700	19	18.9	+40	30.4	8.0	✓
81	+39°	3750	19	18.8	+39	32.4	7.5	✓

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No.	Int.	Class	Remark
82	2	K	E.
83	3	A3	
84	2	ly	
~~84a~~			
85	3	F0	E.
86	2	A	E.
87	3	K2	
88	3	A	E.
89	6	A	E.
90	5	ly5	E.
91	3	A	E.
92	5	F5	
93	7	ly5	
94	5	K0	
95	4	K0	
96	5	K2	
97	3	K	
98	3	A2	
99	2	Mb	
100	1	K	
101	2	ly5	
102	3	ly5	
103	5	F5	
104	4	K0	
105	4	F2	
106	2	A2	
107	10	Mb	
108	2	ly	

82	+40°	3706	19	19.6	+40	2.5	8.2 ✓
83	+41°	3345	19	21.1	+41	30.7	8.4 ✓
84	+41°	3346	19	21.6	+41	34.5	8.2 ✓
~~84a~~	~~+40°~~	~~3717~~	~~19~~	~~21.1~~	~~+40~~	~~54.5~~	~~7.6~~
85	+41°	3350	19	22.2	+41	10.9	8.3 ✓
86	+40°	3745	19	23.8	+40	54.3	8.4 ✓
87	+40°	3724	19	21.3	+40	19.8	8.0 ✓
88	+39°	3766	19	21.6	+39	50.8	7.7 ✓
89	+39°	3767	19	21.8	+39	40.3	6.7 ✓
90	+39°	3777	19	23.7	+39	38.5	7.0 ✓
91	+39°	3781	19	24.1	+39	38.3	8.4 ✓
92	+43°	3084	18	44.3	+43	1.8	7.9 ✓
93	+43°	3085	18	44.9	+43	34.0	6.5 ✓
94	+43°	3094	18	46.3	+43	46.9	7.2 ✓
95	+42°	3174	18	46.0	+42	42.6	6.8 ✓
96	+42°	3184	18	49.0	+42	42.5	7.0 ✓
97	+41°	3168	18	47.8	+41	58.4	8.0 ✓
98	+41°	3173	18	49.3	+41	59.4	8.5 ✓
99	+42°	3189	18	49.9	+42	21.1	8.5 ✓
100	+42°	3193	18	50.4	+42	22.8	8.5 ✓
101	+43°	3114	18	50.1	+43	4.6	8.6 ✓
102	+44°	3006	18	47.5	+44	4.3	8.4 ✓
103	+43°	3107	18	47.9	+43	31.7	7.0 ✓
104	+43°	3111	18	48.6	+43	32.2	7.3 ✓
105	+43°	3112	18	49.1	+43	56.8	7.5 ✓
106	+44°	3012	18	49.9	+44	9.0	8.8 ✓
107	+43°	3117	18	50.9	+43	45.6	var. ✓
108	+43°	3119	18	51.1	+43	59.4	8.5 ✓

Error made on

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No.	Fnt.	Class	Remark
109	7	A2	
110	3	A2	
111	7	A0	
112	2-3	K0	
113	5	B9	
114	1	K	
115	5	A0	
116	4	F5	
117	2	A	
118	2	A2	
119	2	G	
120	7	B9	
121	3	A0	
122	3	F	Difficult. 34909 closer than a sp. of class K in esp. dist.
123	2	A2	
124	4	K5	
125	2	F5	
126	7	F2	
127	3	K0	
128	2	F8	
129	1	G5	
130	5	F5	
131	6	B9	
132	4	F5	
133	5	G0	
134	1	K	
135	2	A0	

109	+44°	3017	18	51.6	+44	2.4	7.1 ✓
110	+42°	3184	18	53.2	+42	12.7	8.8 ✓
111	+42°	3132	18	54.7	+42	30.8	7.0 ✓
112	+42°	3136	18	55.0	+42	31.8	8.3 ✓
113	+43°	3042	18	57.0	+43	10.3	7.2 ✓
114	+43°	3143	18	57.2	+43	38.3	8.8 ✓
115	+42°	3230	18	57.7	+42	46.5	8.0 ✓
116	+42°	3233	18	58.1	+42	53.9	7.7 ✓
117	+43°	3146	18	58.3	+43	7.5	9.1 ✓
118	+42°	3236	18	58.4	+42	19.4	8.6 ✓
119	+42°	3237	18	58.6	+42	31.8	8.6 ✓
120	+43°	3148	18	59.8	+43	39.2	6.8 ✓
121	+43°	3149	19	0.2	+43	41.4	8.5 ✓
122	+43°	3151	19	0.5	+43	3.9	9.1 ✓
123	+43°	3154	19	0.9	+43	6.1	9.2 ✓
124	+41°	3228	19	0.8	+41	56.7	7.0 ✓
125	+42°	3248	19	2.4	+42	27.3	8.7 ✓
126	+43°	3160	19	2.8	+43	6.0	7.2 ✓
127	+43°	3157	19	1.8	+43	57.3	8.0 ✓
128	+43°	3159	19	2.6	+43	36.2	8.5 ✓
129	+43°	3162	19	3.1	+43	35.9	8.5 ✓
130	+43°	3163	19	3.6	+43	42.5	7.8 ✓
131	+43°	3164	19	3.7	+43	48.7	7.5 ✓
132	+44°	3065	19	2.8	+44	14.4	8.5 ✓
133	+44°	3066	19	2.8	+44	36.9	8.1 ✓
134	+43°	3165	19	4.2	+43	40.3	9.0 ✓
135	+42°	3254	19	4.4	+42	51.9	9.0 ✓

Comp Made on

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No.	Int.	Class	Remark
136	2	fg5	
137	3	F0	
138	3	F2	
139	7	A5	
140	6	Bp	
141	2	K2	
142	4	F2	
143	3	Bp	
144	2	A	
145	4	K0	
146	2	A	
147	2	K0	
148	2	F5	
149	3	F	
150	2	fg	
151	3	F0	
152	4	A3	
153	5	K0	
154	3	F5	
155	2	fg0	
156	2	K	
157	2	A0	
158	2	F8	
159	3	fg5	
160	2	A	
161	5	A0	
162	7	A0	

Cards made

136	+43°	3170	19	5.1	+43	12.3	8.8
137	+44°	3071	19	5.4	+44	19.2	8.7
138	+43°	3172	19	5.7	+43	52.8	9.0
139	+44°	3073	19	5.8	+44	18.3	7.3
140	+43°	3178	19	7.5	+43	37.5	7.8
141	+43°	3181	19	8.0	+43	29.3	8.5
142	+43°	3187	19	9.1	+43	43.4	8.5
143	+42°	3290	19	11.3	+42	55.6	9.0
144	+43°	3207	19	14.2	+43	21.8	9.0
145	+43°	3215	19	15.3	+43	15.1	7.5
146	+43°	3219	19	16.1	+43	12.7	8.9
147	+42°	3310	19	14.7	+42	21.5	8.4
148	+42°	3308	19	14.5	+42	23.2	8.8
149	+42°	3299	19	12.8	+42	0.2	8.5
150	+42°	3309	19	14.6	+42	1.0	8.7
151	+41°	3313	19	15.6	+41	23.4	8.8
152	+42°	3313	19	16.0	+42	15.4	8.3
153	+42°	3315	19	16.4	+42	24.6	6.8
154	+43°	3227	19	19.1	+43	35.8	8.4
155	+43°	3231	19	20.2	+43	13.6	8.2
156	+43°	3236	19	20.6	+43	21.8	8.5
157	+43°	3237	19	20.7	+43	34.3	9.1
158	+44°	3078	19	8.1	+44	31.1	8.9
159	+45°	2859	19	10.1	+45	22.0	8.6
160	+44°	3083	19	10.3	+44	50.2	8.9
161	+44°	3086	19	10.6	+44	55.1	7.6
162	+45°	2865	19	11.1	+45	4.3	6.9

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No.	Int.	Class	Remark
163	2	Ko	
164	1	Je	Partly superposed on 163
165	1	Je	
166	4	Ao	
167	3	f8	
168	2	fg	Omit unless confirmed.
169	6	Ko	
170	2	K	E.
171	3	Ao	
172	2	F	Difficult.
173	2	fg5	
174	5	A	E.
175	4	Ao	
176	9	Ao	
177	2	K2	
178	8	Fo	
179	2	Ko	
180	1	K	
181	8	Bg	
182	3	Fo	
183	1	fg	
184	2	Ko	
185	3	fg5	
186	5	f8	
187	2	F5	
188	5	A3	
189	7	Ao	

163	+44°	3092	19	12.4	+44	30.6	8.6 ✓
164	+44°	3093	19	12.5	+44	30.9	8.6 ✓
165	+43°	3203	19	13.5	+43	54.8	8.9 ✓
166	+44°	3102	19	14.6	+44	17.3	8.2 ✓
167	+44°	3107	19	15.3	+44	6.0	8.1 ✓
168	+44°	3105	19	15.0	+44	53.8	9.2 ✓
169	+44°	3109	19	15.5	+44	45.8	6.1 ✓
170	+45°	2817	19	16.1	+45	19.0	8.5 ✓
171	+45°	2819	19	16.3	+45	58.1	8.5 ✓
172	+45°	2818	19	16.4	+45	38.8	8.6 ✓
173	+45°	2887	19	18.3	+45	3.8	8.4 ✓
174	+45°	2769	18	40.9	+45	58.3	7.8 ✓
175	+46°	2547	18	42.1	+46	38.6	7.1 ✓
176	+46°	2551	18	42.9	+46	9.3	6.1 ✓
177	+45°	2774	18	43.8	+45	34.0	8.1 ✓
178	+46°	2777	18	44.4	+45	6.2	6.6 ✓
179	+45°	2779	18	44.9	+45	8.5	8.3 ✓
180	+45°	2780	18	45.9	+45	18.7	8.9 ✓
181	+44°	3003	18	47.2	+44	57.4	7.2 ✓
182	+45°	2783	18	47.9	+45	3.6	8.4 ✓
183	+44°	3008	18	48.3	+44	57.6	9.1 ✓
184	+45°	2790	18	49.6	+45	14.6	8.8 ✓
185	+45°	2794	18	50.2	+45	11.7	8.5 ✓
186	+45°	2797	18	52.1	+45	18.9	7.9 ✓
187	+44°	3023	18	52.6	+44	54.2	9.1 ✓
188	+44°	3026	18	53.7	+44	48.2	7.8 ✓
189	+45°	2799	18	53.8	+45	40.4	7.0 ✓

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No.	Fut.	Class	Remark
190	3	K5	
191	3	F8	
192	2	G	
193	3	A0	
194	2	A	
195	1	K	Confirms. Conformic on I 35424
196	2	A	
197	2	K0	
198	2	A3	
199	3	F5	
200	8	B9	
201	2	A	Another star partly superposed.
202	4	A0	
203	1	G5	
204	4	A2	
205	3	F5	
206	3	A2	
207	3	K2	
208	3	F8	
209	1	K	
210	1	G5	
211	3	F8	
212	3	A0	
213	2	G5	
214	2	K	
215	2	F	
216	3	A	Another star partly superposed
216a	1	A	

190	+45°	2801	18h	53.2	+45	39.9	8.0	✓
191	+45°	2807	18	54.8	+45	14.0	8.5	✓
192	+45°	2811	18	55.5	+45	45.4	9.1	✓
193	+45°	2813	18	55.8	+45	23.5	8.5	✓
194	+45°	2816	18	57.3	+45	26.9	9.0	✓
195	+45°	2817	18	57.4	+45	24.5	8.5	✓
196	+45°	2818	18	57.6	+45	19.1	8.5	✓
197	+45°	2819	18	57.8	+45	28.8	9.0	✓
198	+44°	3049	18	58.5	+44	43.3	9.1	✓ Original, illegible corrected A.J.C.
199	+45°	2824	18	59.5	+45	22.5	8.6	✓
200	+45°	2825	18	0.3	+45	40.9	6.8	✓
201	+46°	2611	19	0.7	+46	8.6	9.1	✓
202	+46°	2615	19	1.5	+46	12.6	8.4	✓
203	+45°	2831	19	1.8	+45	35.4	8.5	✓
204	+46°	2832	19	2.0	+46	34.9	8.5	✓
205	+46°	2618	19	2.1	+46	33.0	8.9	✓
206	+46°	2620	19	2.5	+46	15.6	8.8	✓
207	+45°	2834	19	3.1	+45	50.4	8.0	✓
208	+45°	2835	19	3.2	+45	40.0	8.5	✓
209	+46°	2632	19	4.4	+46	2.7	9.0	✓
210	+46°	2637	19	5.4	+46	10.3	8.7	✓
211	+45°	2844	19	5.8	+45	39.4	8.6	✓
212	+45°	2847	19	6.3	+45	29.5	8.5	✓
213	+46°	2641	19	7.9	+46	4.4	8.7	✓
214	+46°	2640	19	7.6	+46	25.1	8.8	✓
215	+45°	2856	19	9.4	+45	19.5	9.1	✓
216	+45°	2863	19	10.9	+45	58.0	8.5	✓
216a	+45°	2864	19	11.0	+45	59.0	8.8	✓

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No.	Int.	Class	Remark
217	1	K	
218		K	Partly superposed on 219. Lorkeuf on 35424
219	6	Ao	
220	3	Ko	
221	3	G3	
222a	8	F5	
223	3	A2	
223	2	Ko	
224	1	K	
225	3	Gpo	
226	7	Ko	
227	3	Ao	
228	3	F8	
229	2	G5	
230	4	F8	
Time 23, 41	231	3	A5	Partly superposed on 230.
" 0, 50	232	2	G	
233	1	K	
234	7	F	E.
235	8	Ao	E.
236	9	F	E.
237	3	Nb	
238	2	A	
239	2	G5	
240	3	Ma	
241	2	K	
242	6	Ko	
243	6	Bq	

217	+46°	2653	19	12.0	+46	14.1	8.7	V
218	+46°	2656	19	12.2	+46	10.2	8.3	✓
219	+46°	2657	19	12.2	+46	19.8	7.8	✓
220	+46°	2660	19	12.8	+46	9.2	8.1	✓
221	+46°	2662	19	13.2	+46	19.1	8.5	✓
222	+46°	2658	19	12.7	+46	44.2	6.1	✓
222	+47°	2805	19	15.6	+47	28.7	8.8	✓
223	+46°	2668	19	16.0	+46	39.2	8.8	✓
224	+47°	2814	19	17.7	+47	8.3	8.3	✓
225	+47°	2816	19	17.7	+47	12.1	8.1	✓
226	+47°	2779	19	8.2	+47	8.4	6.5	V
227	+47°	2782	19	8.7	+47	32.1	8.8	✓
228	+47°	2788	19	10.8	+47	42.6	8.8	✓
229	+47°	2789	19	10.9	+47	3.7	8.4	✓
230	+46°	2651	19	11.8	+46	48.4	8.0	✓
231	+46°	2652	19	11.9	+46	45.0	8.8	✓
232	+47°	2794	19	12.5	+47	12.0	8.0	V
233	+47°	2798	19	12.7	+47	24.7	8.4	✓
234	+49°	2871	19	43.8	+49	15.9	7.0	✓
235	+48°	2767	18	43.9	+48	54.9	6.3	✓
236	+48°	2770	18	44.4	+48	35.9	6.0	✓
237	+47°	2702	18	46.2	+47	20.8	7.2	✓
238	+47°	2707	18	46.0	+47	28.3	8.8	V
239	+46°	2559	18	46.2	+46	21.3	8.8	✓
240	+46°	2563	18	47.1	+46	34.6	8.3	✓
241	+47°	2713	18	49.6	+47	2.9	8.2	✓
242	+47°	2718	18	51.6	+47	15.3	6.9	✓
243	+46°	2579	18	51.8	+46	19.5	7.9	V

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H 37348

No.	Int.	Class	Remark
244	3	K0	
245	8	A2s	
246	3	F8	
247	5	G0	
248	6	G2	
249	6	F5	
250	3	K0	
251	2	F5	
252	2	G	
253	10	A2s	
254	5	Comp?	B=A0 F=G? Ghosts seen and metallic lines looking for Class A.
255	1	Ma	
256	5	K0	
257	2	K	E.
258	2	F5	E.
259	7	A2	
260	2	K2	
261	4	A5	
262	7	A3	
263	7	K	E.
264	3	F5	
265	5	F5	
266	4	K5	
267	2	K2	
268	3	A0	
269	2	A	
270	3	K5	

244	+46°	2581	18	52.0	+46	12.1	8.3	✓
245	+46°	2585	18	52.4	+46	34.5	7.0	✓
246	+47°	2720	18	52.6	+47	27.9	8.4	✓
247	+46°	2692	18	54.0	+46	59.8	8.0	✓
248	+47°	2721	18	54.0	+47	13.5	8.2	✓
249	+47°	2730	18	54.4	+47	29.1	7.9	✓
250	+46°	2593	18	55.3	+46	46.0	8.4	✓
251	+46°	2594	18	55.8	+46	47.5	8.7	✓
252	+46°	2598	18	56.2	+46	36.5	8.5	✓
253	+46°	2602	18	57.4	+46	44.5	5.5	✓
254	+47°	2743	18	58.1	+47	5.1	7.8	✓
255	+46°	2599	18	56.8	+46	17.6	8.8	✓
256	+47°	2739	18	57.2	+47	49.0	7.2	✓
257	+48°	2818	18	58.4	+48	31.8	9.0	✓
258	+48°	2822	18	59.4	+48	16.4	8.8	✓
259	+48°	2825	18	0.2	+48	39.8	7.5	✓
260	+48°	2826	19	1.2	+48	53.1	8.3	✓
261	+49°	2932	19	1.9	+49	6.5	7.8	✓
262	+49°	2926	19	0.0	+49	26.2	7.7	✓
263	+49°	2929	19	1.4	+49	42.6	6.3	✓
264	+49°	2927	19	3.4	+49	23.3	7.8	✓
265	+49°	2940	19	4.0	+49	15.2	7.8	✓
266	+48°	2830	19	3.0	+48	41.8	7.0	✓
267	+48°	2835	19	4.2	+48	51.1	7.9	✓
268	+48°	2829	19	2.6	+48	9.9	8.3	✓
269	+47°	2758	19	1.8	+47	35.1	8.6	✓
270	+46°	2607	19	3.6	+46	48.0	5.2	✓

corrected later

6.3 8.9 9.0 +48° 2819 Superposed

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No.	Int.	Class	Remark
271	2	A	
272	2	F8	
273	3	K0	
274	2	G	
275	2	K	
276	8	A2	
277	2	K2	
278	2	A2	
279	8	G	E.
280	2	K	E.
281	2	A	E.
282	2	A5	E.
283	8	F5	
284	2	A3	
285	3	K2	E.
286	7	A2	
287	3	K2	
Time 0.58 288	3	G	

289

cmk. 137.48

271	+47°	2763	19	4.7	+47	8.7	9.0	✓
272	+46°	2638	19	5.8	+46	46.5	8.6	✓
273	+47°	2766	19	5.8	+47	30.0	8.5	✓
274	+48°	2837	19	4.7	+48	1.4	8.5	✓
275	+48°	2838	19	4.9	+48	2.0	8.3	✓
276	+48°	2844	19	6.5	+48	11.5	7.0	✓
277	+48°	2852	19	8.8	+48	27.4	8.5	✓
278	+48°	2853	19	9.3	+48	54.5	8.5	✓
279	+49°	2959	19	8.3	+49	35.2	6.2	✓
280	+49°	2947	19	6.2	+49	27.1	8.0	✓
281	+49°	2888	18	47.1 49.0	+49	16.7 #6	8.3	✓
282	+49°	2889	18	49.0	+49	4.6	8.1	✓
283	+48°	2793	18	51.0	+48	40.9	5.5	✓
284	+48°	2786	18	49.9	+48	0.7	8.5	✓
285	+49°	2898	18	52.2	+49	37.6	8.3	✓
286	+49°	2906	18	55.3	+49	8.1	7.8	✓
287	+48°	2810	18	56.5	+48	55.6	8.5	✓
288	+48°	2806	18	55.2	+48	13.4	8.8	✓

Identified by A.M.C. June 1, 1912

Checked by J.C.M. June 21, 1912.

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Thursday, May 1, 1913

Venus: 22, 24 — T=37713

No.	Int.	Class	Remark
1	5	F8	E.
2	7	A5	
3	4	G0	
4	2	A5	
5	2	K0	
6	10	B9	
7	5	A5	
8	2	K2	
9	1	K	
10	4	G5	
11	5	K0	
12	2	K5	
13	2	K5	
14	6	Ma	
15	5	K0	
16	4	G0	
17	5	K0	
18	3	K0	
19	3	G5	
20	2	F5	
21	6	K0	
22	3	F8	
23	3	G	Partly superposed on 24.
24	5	A0	
25	6	F0	
26	6	G0	
27	4	A0	

1	+66°	493	7	4.5	+66	59.5	7.5	∧∨
2	+66°	498	7	10.4	+66	5.0	7.3	∧∨
3	+65°	572	7	12.8	+65	12.8	8.0	∧∨
4	+64°	632	7	14.8	+64	52.4	8.8	∧∨
5	+64°	636	7	17.8	+64	54.8	8.7	∧∨
6	+66°	502	7	13.0	+66	37.2	6.2	∧∨
7	+66°	503	7	13.6	+66	46.7	7.3	∧∨
8	+67°	488	7	13.9	+67	8.8	8.5	∧∨
9	+67°	490	7	14.2	+67	20.5	9.0	∧∨
10	+67°	492	7	16.6	+67	7.0	8.2	∧∨
11	+66°	508	7	17.1	+66	24.9	6.7	∧∨
12	+67°	493	7	18.4	+67	13.7	8.0	∧∨
13	+66°	511	7	20.9	+66	40.1	8.6	∧∨
14	+66°	512	7	21.7	+66	46.5	7.3	∧∨
15	+66°	513	7	22.4	+66	52.7	8.0	∧∨
16	+65°	576	7	21.1	+65	58.9	8.5	∧∨
17	+65°	579	7	22.7	+65	23.2	6.8	∧∨
18	+64°	640	7	23.6	+64	56.8	7.8	∧∨
19	+65°	583	7	23.2	+65	37.6	8.4	∧∨
20	+64°	643	7	25.8	+64	59.4	9.0	∧∨
21	+66°	514	7	24.2	+66	31.3	6.5	∧∨
22	+66°	516	7	24.4	+66	52.1	9.0	∧∨
23	+66°	518	7	25.8	+66	21.0	8.5	∧∨
24	+66°	517	7	25.7	+66	36.1	8.5	∧∨
25	+67°	499	7	24.5	+67	21.1	8.3	∧∨
26	+67°	501	7	27.1	+67	53.4	8.0	∧∨
27	+67°	504	7	28.6	+67	55.6	8.8	∧∨

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No.	Int.	Class	Remark
28	2	ly5	
29	5	A2	
30	4	F5	
31	5	F0	
32	2	F	
33	2	K	
34	1	F5	
35	5	F5	
36	7	F2	
37	8	K0	
38	2	F5	
39	1	ly	
40	5	A5	
41	2	ly5	
42	5	K5	
43	5	F2	
44	2	A5	Difficult.
45	2	ly5	
46	1	ly5	
47	8	F0	
48	7	F2	
49	1	K	
50	1	K	
51	3	A2	
52	5	K5	
53	4	F0	
54	2	ly5	

28	+67°	500	7	26.7	+67	23.0	8.8	^ ✓
29	+66°	579	7	27.6	+66	33.2	8.1	^ ✓
30	+65°	585	7	29.0	+65	20.3	8.2	^ ✓
31	+65°	586	7	29.0	+65	37.1	8.2	^ ✓
32	+65°	587	7	29.8	+65	45.1	9.1	^ ✓
33	+65°	588	7	30.2	+65	47.0	8.7	^ ✓
34	+66°	590	7	31.1	+65	23.9	9.2	^ ✓
35	+65°	591	7	32.0	+65	2.5	8.0	^ ✓
36	+65°	592	7	32.1	+65	29.5	7.3	^ ✓
37	+65°	593	7	32.8	+65	47.8	6.2	^ ✓
38	+66°	524	7	34.0	+66	40.4	9.0	^ ✓
39	+66°	522	7	29.9	+66	47.0	8.9	^ ✓
40	+67°	506	7	31.3	+67	12.0	8.0	^ ✓
41	+66°	525	7	36.6	+66	8.4	9.2	^ ✓
42	+65°	599	7	39.3	+65	16.5	7.5	^ ✓
43	+66°	528	7	40.9	+66	50.6	8.5	^ ✓
44	+66°	529	7	41.9	+66	16.4	9.5	^ ✓
45	+66°	530	7	42.4	+66	57.2	8.8	^ ✓
46	+66°	531	7	44.9	+66	5.7	9.1	^ ✓
47	+65°	606	7	46.9	+65	9.2	7.1	^ ✓
48	+65°	607	7	49.6	+65	31.8	7.0	^ ✓
49	+64°	667	7	51.4	+64	28.9	8.8	^ ✓
50	+65°	610	7	52.2	+65	17.3	8.8	^ ✓
51	+65°	611	7	52.9	+65	58.4	8.8	^ ✓
52	+66°	537	7	56.9	+66	4.3	7.0	^ ✓
53	+66°	538	7	58.1	+66	25.4	7.8	^ ✓
54	+66°	539	7	58.0	+66	40.6	8.3	^ ✓

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No.	Int.	Class	Remark
55	9	Ir	
56	2	F	Difficult.
57	3	A	Line 4077 appears strong.
58	2	Ly5	
59	7	F8	
60	3	K0	
61	4	F5	
62	2	K0	
63	3	Ly5	
64	5	Ly0	
65	5	F8	
66	4	K0	
67	3	Ly0	
68	6	F5	
69	2	Ly5	
70	2	K	E.
71	10	A0	E.
72	9	Ly	E.
73	4	A5	E.
74	4	K	E.
75	5	Ly0	
76	8	A0	
77	4	F5	
78	2	K0	
79	3	F5	
80	10	Ly5	
81	3	A	

55	+66°	541	8	2.0	+66	36.7	6.5	^ J
56	+64°	670	7	55.2	+64	44.1	8.9	^ J
57	+65°	615	7	59.6	+65	10.1	9.0	^ J
58	+64°	672	8	0.1	+64	27.4	8.5	^ J
59	+64°	674	8	3.4	+64	9.3	8.1	^ J
60	+65°	622	8	3.8	+65	1.0	8.5	^ J
61	+65°	623	8	4.6	+65	15.0	8.1	^ J
62	+66°	544	8	4.9	+66	5.0	8.3	^ J
63	+65°	625	8	7.2	+65	50.0	8.1	^ J
64	+65°	626	8	7.7	+65	52.9	8.0	^ J
65	+66°	545	8	10.1	+66	11.6	7.5	^ J
66	+65°	628	8	10.5	+65	56.4	7.5	^ J
67	+65°	629	8	11.3	+65	20.9	8.5	^ J
68	+65°	632	8	12.2	+65	10.8	7.7	^ J
69	+65°	633	8	13.8	+65	19.1	8.3	^ J
70	+65°	634	8	16.8	+65	43.9	8.8	^ J
71	+65°	638	8	21.6	+65	37.8	5.8	^ J
72	+65°	643	8	26.3	+65	30.6	5.8	^ J
73	+68°	470	7	3.5	+68	12.1	8.5	^ J
74	+67°	483	7	6.2	+67	54.9	8.5	^ J
75	+67°	485	7	8.6	+67	29.9	7.9	^ J
76	+67°	486	7	10.4	+67	24.0	7.6	^ J
77	+68°	476	7	9.0	+68	11.1	8.4	^ J
78	+67°	487	7	13.1	+67	56.4	8.5	^ J
79	+67°	489	7	14.0	+67	42.6	9.0	^ J
80	+68°	480	7	15.8	+68	45.5	5.5	^ J
81	+68°	484	7	18.4	+68	41.1	8.7	^ J

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No	Int.	Class	Remark
82	2	K	
83	3	fy5	
84	7	fy5	
85	4	K0	
86	8	F0	
87	3	K0	
88	2	fy5	
89	3	fy5	
90	4	A0	
91	4	B9	
92	1	F8	
93	3	K5	
94	1	K	
95	3	F0	
96	2	fy5	
97	3	K0	
98	2	K	
99	1	K5	
100	4	K0	
101	4	A2	
102	2	F8	
103	6	F5	
104	2	fy5	
105	3	fy0	
106	10	fy5	
107	2.3	fy0	
108	2	K0	

82	+68°	488	7	23.3	+68	45.9	8.7	^ ∨
83	+69°	432	7	24.0	+69	38.9	7.9	^ ∨
84	+69°	436	7	28.0	+69	40.3	6.8	^ ∨
85	+70°	471	7	27.7	+70	1.2	7.8	^ ∨
86	+69°	438	7	31.9	+69	29.9	7.2	^ ∨
87	+68°	491	7	28.1	+68	27.6	8.7	^ ∨
88	+68°	492	7	29.4	+68	46.7	9.2	^ ∨
89	+69°	439	7	34.9	+69	13.7	8.5	^ ∨
90	+69°	440	7	35.5	+69	19.7	8.9	^ ∨
91	+68°	501	7	37.7	+68	15.7	8.8	^ ∨
92	+68°	507	7	39.6	+68	37.9	9.2	^ ∨
93	+68°	510	7	41.4	+68	37.6	8.0	^ ∨
94	+69°	445	7	41.6	+69	16.2	8.6	^ ∨
95	+69°	448	7	42.4	+69	9.0	8.5	^ ∨
96	+68°	511	7	43.4	+68	50.2	8.9	^ ∨
97	+69°	450	7	46.0	+69	19.6	8.0	^ ∨
98	+67°	512	7	42.9	+67	50.1	9.0	^ ∨
99	+67°	515	7	44.2	+67	41.3	8.7	^ ∨
100	+68°	517	7	49.8	+68	4.0	7.8	^ ∨
101	+66°	533	7	50.6	+66	54.6	8.5	^ ∨
102	+67°	520	7	51.6	+67	18.8	9.0	^ ∨
103	+68°	518	7	51.2	+68	48.7	7.7	^ ∨
104	+68°	520	7	53.7	+68	9.9	9.1	^ ∨
105	+68°	523	7	55.8	+68	22.0	8.7	^ ∨
106	+68°	524	7	58.3	+68	54.0	4.8	^ ∨
107	+67°	525	7	56.7	+67	37.6	8.2	^ ∨
108	+67°	529	8	0.3	+67	50.3	8.5	^ ∨

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No.	Int.	Class	Remarks
109	6	Ma	
110	2	K	
111	4	K0	
112	3	A2	
113	2	K0	
114	5	K0	
115	2	K	
116	9	K0	
117	4	K0	
118	1	K2	
119	5	F2	
120	1	G5	
121	8	F5	
122	2	K0	
123	3	F5	
124	3	G0	
125	5	F0	
126	8	A0	
127	7	K0	
128	3	M0	E.
129	4	A0	E.
130	6	A5	E.
131	4	G	E.
132	5	A0	E.
133	4	G	E.
134	7	G0	
135	4	F	E.

109	+67°	534	8	6.8	+67	58.6	7.0	∧ √
110	+67°	537	8	8.3	+67	56.2	8.5	∧ √
111	+67°	538	8	8.9	+67	0.2	7.0	∧ √
112	+66°	548	8	11.3	+66	46.1	8.5	∧ √
113	+66°	550	8	12.1	+66	57.0	8.8	∧ √
114	+67°	542	8	13.2	+67	44.4	7.2	∧ √
115	+67°	544	8	15.2	+67	24.8	8.7	∧ √
116	+67°	545	8	16.0	+67	46.4	6.0	∧ √
117	+67°	549	8	19.4	+67	46.9	7.8	∧ √
118	+69°	461	8	4.0	+69	16.2	8.4	∧ √
119	+69°	462	8	7.1	+69	29.4	7.8	∧ √
120	+69°	463	8	8.0	+69	20.5	9.0	∧ √
121	+69°	464	8	9.5	+69	22.0	7.2	∧ √
122	+68°	531	8	9.1	+68	52.7	8.5	∧ √
123	+69°	467	8	12.2	+69	3.6	8.7	∧ √
124	+68°	532	8	12.6	+68	38.8	8.5	∧ √
125	+68°	533	8	13.6	+68	26.6	8.0	∧ √
126	+69°	470	8	16.6	+69	0.0	6.7	∧ √
127	+69°	472	8	18.5	+69	49.0	6.5	∧ √
128	+69°	413	6	59.4	+69	2.2	7.6	∧ √
129	+68°	468	7	2.6	+68	59.3	8.0	∧ √
130	+68°	472	7	5.2	+68	47.6	7.5	∧ √
131	+70°	441	6	59.6	+70	44.8	7.8	∧ √
132	+70°	449	7	8.4	+70	57.1	7.1	∧ √
133	+69°	422	7	10.8	+69	45.4	7.5	∧ √
134	+70°	474	7	31.9	+70	33.0	6.8	∧ √
135	+71°	428	7	36.2	+71	35.2	8.0	∧ √

111 +67° 538 8 8.9 +67 0.2 7.0 ∧ √ — 8.3 +67 56.2 8.5 ∧ √ — 8.9 +67 58.6 8.8 ∧ √ — Mean 9.7 — Sun perturbed

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No.	Int.	Class	Remark
136	8	a	Line 4128-31 strongest except hydrogen.
137	3	K0	E.
138	5	F0	E.
139	5	A	E.
140	2	a	
141	5	A0	
142	8	F8	
143	3	G5	Looks nebulous. Cluster? Double star
144	3	G	
145	4	A3	
146	5	K0	
147	3	A5	Poor focus.
Time 22.55 148	5	G5	
149			
150			
151			
149	2	K0	
150	2	K0	
" 75	3	A3	
152	6	A2	
153	6	F5	
154	2	K0	

136	+71°	429	7	38.4	+71	37.0	6.8	∧ ∨
137	+72°	382	7	36.3	+72	9.5	7.2	∧ ✓
138	+72°	385	7	40.3	+72	13.4	7.0	∧ ∨
139	+72°	386	7	41.0	+72	3.4	7.3	∧ ∨
140	+70°	492	7	47.4	+70	14.6	8.9	∧ ∨
141	+70°	496	7	54.2	+70	38.2	8.0	∧ ∨
142	+70°	497	7	55.2	+70	7.8	6.5	∧ ∨
143	+69°	455	7	55.2	+69	51.1	8.9	∧ ∨
144	+70°	499	7	57.6	+70	34.7	8.6	∧ ∨
145	+70°	500	7	58.0	+70	53.4	8.3	∧ ∨
146	+70°	502	8	2.5	+70	37.7	7.0	∧ ∨
147	+70°	508	8	8.9	+70	7.4	8.8	∧ ∨
148	+70°	510	8	11.5	+70	35.4	7.3	∧ ∨

Identified by A.M.C. May 27, 1912

Checked June 19 1912 L.S.W.

✓	149	+63°	732	7	32.7	+63	43	8.5	176 m 37676
✓	150	+64°	655	7	38.3	+64	18	8.5	181 " "
✓	151	+63°	758	7	58.0	+63	33	8.4	191 " "
✓	152	+64	630						81 on 37581
✓	153	+64	633						238 on 37726
✓	154	+63	716						238 a "

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Friday May 2, 1913

Time: 22.06

I 37526

No.	Int.	Class	Remark
1	9	Fs	E.
2	3	A	E.
3	2	A	E.
4	3	A	E.
5	5	Fs	E.
6	3.	K	E.
7	5.	K	E.
8	5.	K	
9	1	fy5	~~Faint when confirmed.~~ See I 22537
10	6	fy0	
11	7	Bq	
12	4	A	Focus very poor. Another star resp. See I 22537 Can
13	1	fy	
14	2	Fs	Another star unconfirmed ? Not in Potsdam Cat. See I 37108
15	2	Ko	
16	1	fy	
17	1	K	
18	4	A0	
19	2	fy	Poor focus,
20	4	Nd	Hγ = 8, Hδ = 6, Hε = 2. All bright.
21	9	B8	
22	3	A3	
23	3	A	
24	7	B8	E.
25	4	Fs	
26	5	fy0	
27	4	fy	

1	+55°	1122	6	36.1	+55	50.8	6.0	✓
2	+55°	1125	6	36.6	+55	24.1	8.7	✓
3	+55°	1129	6	39.1	+55	14.7	9.3	✓
4	+54°	1076	6	38.1	+54	24.5	8.8	✓
5	+54°	1077	6	39.3	+54	34.6	7.8	✓
6	+55°	1132	6	40.2	+55	20.9	8.5	✓
7	+55°	1137	6	41.7	+55	2.7	8.1	✓
8	+55°	1135	6	40.8	+55	50.2	8.4	✓
9	+55°	1136	6	41.6	+55	55.2	9.0	✓
10	+55°	1138	6	42.4	+55	50.3	8.3	✓
11	+56°	1164	6	42.9	+56	7.1	8.3	✓
12	+56°	1165	6	43.5	+56	48.1	8.5	✓
13	+56°	1166	6	44.1	+56	58.0	9.5	✓
14	+57°	1022	6	46.6	+57	18.6	8.9	✓
15	+56°	1170	6	46.8	+56	59.5	8.7	✓
16	+56°	1172	6	48.2	+56	24.2	9.1	✓
17	+56°	1171	6	48.0	+56	18.0	8.0	✓
18	+55°	1150	6	48.2	+55	56.2	8.5	✓
19	+55°	1147	6	47.9	+55	35.6	9.2	✓
20	+56°	1154	6	49.3	+55	30.2	Bau.	✓
21	+55°	1155	6	49.4	+55	2.1	7.0	✓
22	+54°	1097	6	48.6	+54	38.1	8.5	✓
23	+55°	1156	6	50.2	+55	17.7	9.1	✓
24	+53°	1094	6	50.9	+53	34.5	7.4	✓
25	+54°	1100	6	51.2	+54	14.4	7.6	✓
26	+54	1101	6	51.3	+54	21.7	7.8	✓
27	+56°	1173	6	52.0	+56	38.3	8.6	✓

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No.	Int.	Class	Remark
28	6	A2	
29	5	A0	
30	2	K	
31	2	F	Difficult.
32	4	F8	
33	2	Ip0	
34	3	K0	
35	5	F5	
36	3	K0	
37	3	Iy5	
38	6	F0	
39	6	F5	
40	6	F5	
41	2	F5	
42	7	F0	
43	4	K0	
44	2	K	E.
45	4	A3	E.
46	10	A2	
47	4	A5	E.
48	2	Iy5	
49	1	Iy	
50	2	K0	
51	1	A	
52	8	A0	
53	3	I8	E. Difficult.
54	1	F5	

28	+55°	1164	6	53.2	+55	55.2	8.0 ✓
29	+56°	1174	6	54.0	+56	27.6	8.6 ✓
30	+56°	1176	6	54.7	+56	51.7	8.5 ✓
31	+55°	1166	6	54.6	+55	56.8	9.0 ✓
32	+55°	1167	6	54.9	+55	24.3	8.0 ✓
33	+55°	1169	6	55.4	+55	41.7	8.8 ✓
34	+54°	1106	6	55.1	+54	42.2	8.2 ✓
35	+54°	1108	6	56.7	+54	20.7	8.5 ✓
36	+54°	1109	6	57.5	+54	14.3	8.0 ✓
37	+55°	1171	6	56.0	+55	38.5	8.5 ✓
38	+56°	1180	6	56.1	+56	5.1	7.8 ✓
39	+56°	1183	6	58.2	+56	40.3	8.5 ✓
40	+56°	1188	6	59.6	+56	31.0	8.3 ✓
41	+56°	1190	6	59.9	+56	19.2	8.7 ✓
42	+55°	1174	6	59.6	+55	50.8	7.2 ✓
43	+56°	1191	6 7	0.9	+56	7.1	7.7 ✓
44	+54°	1111	6	58.9	+54	36.9	8.5 ✓
45	+54°	1116	7	0.0	+54	23.1	8.4 ✓
46	+54°	1119	7	1.4	+54	42.2	6.8 ✓
47	+53°	1121	7	3.1	+53	49.7	8.0 ✓
48	+55°	1176	7	2.3	+55	28.2	9.0 ✓
49	+55°	1181	7	4.8	+55	8.4	8.7 ✓
50	+54°	1128	7	5.3	+54	30.9	8.6 ✓
51	+54°	1129	7	6.5	+54	48.2	9.3 ✓
52	+55°	1185	7	8.0	+55	8.9	8.0 ✓
53	+54°	1130	7	8.3	+54	17.2	8.4 ✓
54	+54°	1133	7	9.6	+54	46.2	9.0 ✓

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No.	Int.	Class	Remark
55	10	B5	Burned out
56	1	ly	
57	3	F2	
58	3	A5	
59	4	Bq	
60	6	A0	
61	1	K	
62	4	A2	
63	4	ly0	
64	3	ly0	
65	2	A	
66	1	K	
67	4	A	E.
68	6	A2	E.
69	6	ly5	
70	7	ly5	
71	3	K0	
72	4	F5	
73	7	A0	
74	8	K0	
75	3	A5	E.
76	5	Bq	Line 4026 almost = K.
77	3	A2	
78	4	A2	
79	4	A	E.
80	4	F5	E.
81	8	A0	E.

55	+55°	1192	7	11.0	+ 55	32.7	5.5 ✓
56	+55°	1196	7	12.4	+55	44.1	9.1 ✓
57	+55°	1197	7	12.7	+ 55	14.0	8.9 ✓
58	+54°	1138	7	12.5	+ 54	48.2	8.8 ✓
59	+54°	1137	7	12.0	+ 54	21.6	8.0 ✓
60	+55°	1199	7	14.3	+ 55	47.5	8.2 ✓
61	+56°	1212	7	15.9	+ 56	3.1	9.0 ✓
62	+56°	1214	7	16.8	+ 56	38.0	8.7 ✓
63	+57°	1080	7	17.8	+ 57	15.7	8.4 ✓
64	+56°	1218	7	~~18.9~~ 16.6	+ 58	33.8	~~8.5~~ 7.8 ✓
65	+55°	1204	7	17.7	+ 55	43.0	9.4 ✓
66	+55°	1200	7	16.5	+ 55	24.3	8.8 ✓
67	+56°	1223	7	23.4	+ 56	43.2	8.7 ✓
68	+56°	1226	7	24.3	+ 56	42.3	8.0 ✓
69	+57°	1085	7	24.8	+ 57	9.8	7.5 ✓
70	+57°	1086	7	24.8	+ 57	53.0	8.0 ✓
71	+57°	1087	7	26.1	+ 57	46.1	8.0 ✓
72	+58°	1050	7	25.0	+ 58	15.0	8.8 ✓
73	+57°	1092	7	28.1	+ 57	34.9	7.5 ✓
74	+57°	1093	7	28.8	+ 57	24.5	6.3 ✓
75	+56°	1230	7	29.1	+ 56	48.6	8.6 ✓
76	+57°	1095	7	30.5	+ 57	7.9	8.4 ✓
77	+57°	1097	7	31.1	+ 57	50.6	8.5 ✓
78	+57°	1098	7	32.1	+ 57	8.8	8.5 ✓
79	+56°	1236	7	33.6	+ 56	58.0	8.5 ✓
80	+56°	1235	7	33.5	+ 56	29.2	8.3 ✓
81	+55°	1218	7	34.3	+ 55	59.6	7.3 ✓

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Nr.	Int.	Class	Remark
82	5	K	E.
83	9	K0	
84	5	F5	
85	4	F5	
86	4	K0	
87	8	B9	
88	3	F8	
89	6	K0	
90	4	A	E.
91	5	ly	E.
92	10	ly5	E.
93	3	F5	E.
94	2	ly	E.
95	3	A5	E.
96	8	A3	
97	3	ly5	
98	6	F8	
99	2	K0	
100	2	ly5	
101	2	A3	E.
102	1	ly	
103	2	K	
104	1	ly	
105	4	F	
106	1	ly	
107	8	K2	
108	10	ly0	

82	+55°	1220	7	35.3	+55	50.0	8.2 ✓
83	+56°	1227	7	25.0	+56	4.7	6.0 ✓
84	+55°	1210	7	26.6	+55	31.3	7.8 ✓
85	+54°	1159	7	25.5	+54	42.0	7.9 ✓
86	+54°	1160	7	25.7	+54	9.3	7.2 ✓
87	+54°	1167	7	27.7	+54	12.8	7.0 ✓
88	+54°	1168	7	28.4	+54	46.8	8.0 ✓
89	+55°	1214	7	30.2	+55	7.0	6.7 ✓
90	+57°	1002	6	32.9	+57	38.1	9.0 ✓
91	+57°	1003	6	34.2	+57	55.9	8.0 ✓
92	+57°	1004	6	34.4	+57	18.6	6.1 ✓
93	+57°	1005	6	34.8	+57	24.9	8.5 ✓
94	+57°	1006	6	34.9	+57	47.8	8.7 ✓
95	+58°	966	6	35.1	+58	43.4	9.2 ✓
96	+58°	971	6	38.6	+58	34.6	8.0 ✓
97	+57°	1011	6	38.5	+57	47.8	8.2 ✓
98	+57°	1012	6	39.7	+57	18.6	8.0 ✓
99	+57°	1008	6	38.0	+57	1.8	8.3 ✓
100	+57°	1010	6	38.4	+57	21.6	8.5 ✓
101	+56°	1155	6	37.8	+56	41.9	9.2 ✓
102	+56°	1159	6	39.0	+56	10.4	9.0 ✓
103	+55°	1131	6	40.0	+55	56.7	8.0 ✓
104	+57°	1014	6	40.2	+57	51.5	9.1 ✓
105	+58°	973	6	40.8	+58	0.4	8.8 ✓
106	+57°	1016	6	44.4	+57	33.8	9.2 ✓
107	+57°	1017	6	44.8	+57	43.7	6.3 ✓
108	+58°	982	6	44.7	+58	36.6	5.0 ✓

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No.	Int.	Class	Remark
109	1	K5	
110	3	A0	
111	5	F0	
112	6	F0	
113	1	G5	
114	2	F	
115	5	F5	
116	2	F5	
117	1	G	
118	5	K2	
119	3	A0	
120	5	A0	
121	6	F5	
122	2	K0	
123	4	K0	
124	4	G5	
125	5	F0	
126	4	F5	
127	2	F5	
128	4	A2	
129	3	F5	
130	1	G	
131	6	A2	
132	2	F5	
133	4	F8	
134	3	Ma	
135	6	F0	

109	+58	984	6	45.1	+58	29.3	9.0	✓
110	+58°	985	6	45.2	+58	5.6	8.9	✓
111	+57°	1019	6	46.3	+57	46.5	8.7	✓
112	+58°	988	6	45.9	+58	4.6	8.1	✓
113	+57°	1021	6	46.5	+57	48.5	8.3	✓
114	+58°	989	6	46.6	+58	0.2	9.0	✓
115	+57°	1026	6	48.7	+57	47.1	8.4	✓
116	+57°	1025	6	48.7	+57	2.5	9.1	✓
117	+57°	1029	6	50.4	+57	55.9	9.2	✓
118	+58°	994	6	50.8	+58	7.7	7.7	✓
119	+58°	997	6	54.2	+58	33.2	9.0	✓
120	+58°	998	6	55.3	+58	44.4	8.5	✓
121	+58°	1001	6	57.2	+58	11.5	8.0	✓
122	+57°	1038	6	57.1	+57	19.6	8.5	✓
123	+57°	1039	6	58.2	+57	34.8	7.8	✓
124	+58°	1005	6	59.1	+58	14.5	8.0	✓
125	+57°	1044	6	59.3	+57	56.5	8.0	✓
126	+57°	1045	6	59.6	+57	45.5	8.0	✓
127	+57°	1047	7	0.2	+57	53.3	8.9	✓
128	+58°	1007	7	1.2	+58	11.0	8.8	✓
129	+58°	1008	7	1.4	+58	29.3	8.6	✓
130	+57°	1048	7	0.5	+57	13.7	9.1	✓
131	+57°	1049	7	0.9	+57	4.9	8.0	✓
132	+56°	1194	7	2.2	+56	23.6	8.8	✓
133	+57°	1052	7	2.8	+57	30.8	8.2	✓
134	+57°	1053	7	3.1	+57	32.8	7.5	✓
135	+57°	1055	7	4.6	+57	54.6	8.0	✓

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No.	Int.	Class	Remark
136	2	F	
137	8	Fo	
138	2	G	
139	8	Fo	
140	8	F8	
141	7	K2	
142	3	Ma	
143	2	F5	Difficult.
144	2	A0	
145	4	A6	
146	2	F8	
147	1	K5	
148	2	F8	
149	2	K	
150	2	Mt	
151	2	K	
152	3	G0	
153	4	F8	
154	1	G	
155	1	G5	
156	6	F8	
157	3	K2	
158	1	K	
159	5	A2	
160	5	G0	
161	3	K5	
162	4	F0	

136	+57°	1056	7	5.1	+57	32.1	9.0	✓
137	+58°	1017	7	5.0	+58	17.9	7.1	✓
138	+58°	1022	7	7.6	+58	51.4	8.9	✓
139	+59°	1067	7	6.1	+59	9.5	7.7	✓
140	+59°	1068	7	6.6	+59	23.1	7.8	✓
141	+59°	1071	7	7.3	+59	30.3	7.0	✓
142	+59°	1070	7	7.2	+59	57.5	8.5	✓
143	+59°	1074	7	8.2	+59	36.2	8.9	✓
144	+58°	1024	7	8.1	+58	6.8	9.4	✓ superfine on 1025
145	+58°	1026	7	8.2	+58	1.1	9.2	✓
146	+57°	1058	7	8.5	+57	7.8	8.5	✓
147	+56°	1201	7	7.9	+56	31.5	8.6	✓
148	+56°	1202	7	8.0	+56	1.1	9.0	✓
149	+56°	1204	7	9.9	+56	33.5	8.7	✓
150	+56°	1205	7	10.3	+56	4.0	8.7	✓
151	+57°	1061	7	10.6	+57	11.8	8.5	✓
152	+57°	1063	7	11.3	+57	14.8	8.2	✓
153	+57°	1064	7	11.4	+57	51.2	8.1	✓
154	+57°	1066	7	12.8	+57	30.5	9.1	✓
155	+57°	1069	7	13.1	+57	15.2	9.2	✓
156	+56°	1207	7	13.3	+56	58.7	7.7	✓
157	+56°	1208	7	13.4	+56	49.1	7.5	✓
158	+57°	1072	7	14.3	+57	1.0	8.9	✓
159	+57°	1074	7	14.8	+57	26.5	8.7	✓
160	+57°	1075	7	16.4	+57	56.7	8.4	✓
161	+57°	1076	7	17.2	+57	56.7	8.4	✓
162	+57°	1078	7	17.5	+57	52.2	9.0	✓

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I 37 526.

No.	Int.	Class	Remark
163	4	Gp	
164	3	A	
165	3	F2	
166	2	G5	
167	2	F8	
168	4	K0	
169	5	K0	
170	3	K0	
171	2	K2	
172	1	A2	
173	9	A0	
174	8	A2	
175	3	K0	
176	10+	A2	
177	5	F	Focus poor.
178	2	K	
179	2	F	
180	4	F5	E.
181	5	F	E.
182	5	F5	E.
183	7	G	E.
184	9	A0	E.
185	3	A	E.
186	2	K	E.
187	7	F5	E.
188	2	G	E.
189	10+	A0	E.

163	+58°	1041	7	18.1	+58	30.2	8.5 ✓
164	+59°	1087	7	20.0	+59	8.0	8.9 ✓
165	+58°	1045	7	20.5	+58	49.8	8.6 ✓
166	+58°	1046	7	21.3	+58	7.4	9.0 ✓
167	+58°	1047	7	21.8	+58	1.2	8.9 ✓
168	+57°	1083	7	22.0	+57	33.8	7.6 ✓
169	+60°	1061	7	21.3	+60	19.5	7.8 ✓
170	+60°	1062	7	21.8	+60	7.9	8.1 ✓
171	+59°	1092	7	23.4	+59	50.6	8.5 ✓
172	+59°	1095	7	23.7	+59	42.2	9.5 ✓
173	+60°	1069	7	24.8	+60	50.4	6.7 ✓
174	+59°	1099	7	27.5	+59	52.5	7.2 ✓
175	+59°	1100	7	28.1	+59	26.1	8.0 ✓
176	+59°	1103	7	30.7	+59	1.6	5.0 ✓
177	+59°	1105	7	31.4	+59	37.3	7.6 ✓
178	+58°	1057	7	31.1	+58	40.1	8.5 ✓
179	+58°	1056	7	30.9	+58	12.5	9.1 ✓
180	+58°	1064	7	34.4	+58	52.3	8.4 ✓
181	+59°	1108	7	36.2	+59	26.0	8.0 ✓
182	+59°	1112	7	38.3	+59	23.9	7.8 ✓
183	+60°	1082	7	35.4	+60	38.6	7.0 ✓
184	+60°	1084	7	37.6	+60	40.5	6.7 ✓
185	+59°	1067	7.6	30.5	+58.9	26.1	8.9 ✓
186	+59°	1068	7.6	30.9	+58.9	14.1	9.0 ✓
187	+59°	1113	7.6	32.1	+58.9	36.6	8.1 ✓
188	+59°	1112	7.6	31.9	+59	59.3	8.5 ✓
189	+59°	1115	7.6	33.4	+59	34.4	5.0 ✓

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No.	Int.	Class	Remark
190	3	A5	
191	2	K5	
192	4	A	Partly superposed on 193.
193	4	Ly0	
194	5	K0	
195	2	K	
196	4	Ly5	
197	5	K0	
198	5	Ly0	
199	3	Ly0	
200	10	Complex	Brs = F5 Fl. = A2.
201	3	Ma	
202	1	K	
203	1	Ly5	
204	7	A2	
205	4	F0	
206	3	Ly	
207	4	F8	
208	3	Ly5	
209	3	F5	
210	1	A	
211	3	A3	
212	2	Ly0	
213	1	Ly5	
214	1	Ly5	
215	8	K1	
216	6	A2	

190	+59°	1019	6	35.3	+59	49.6	8.8	✓
191	+60°	999	6	36.1	+60	6.2	9.1	✓
192	+60°	1000	6	36.4	+60	20.4	8.6	✓
193	+60°	1001	6	36.6	+60	19.0	8.3	✓
194	+60°	1002	6	36.7	+60	38.1	8.5	✓
195	+60°	1003	6	36.9	+60	28.7	8.6	✓
196	+61°	980	6	37.3	+61	6.0	8.5	✓
197	+61°	982	6	38.0	+61	2.7	8.6	✓
198	+60°	1005	6	39.4	+60	33.2	8.5	✓
199	+59°	1026	6	39.6	+59	50.0	9.0	✓
200	+59°	1028	6	40.3	+59	36.8	6.0	✓
201	+59°	1024	6	38.9	+59	27.3	8.5	✓
202	+59°	1023	6	38.6	+59	14.8	9.1	✓
203	+58°	972	6	39.3	+58	52.2	9.0	✓
204	+59°	1033	6	44.6	+59	21.9	7.8	✓
205	+59°	1034	6	45.2	+59	23.4	8.5	✓
206	+59°	1035	6	45.4	+59	10.0	9.0	✓
207	+58°	986	6	45.6	+58	46.9	8.7	✓
208	+58°	987	6	45.7	+58	54.2	8.5	✓
209	+58°	991	6	46.9	+58	32.2	9.1	✓
210	+59°	1039	6	48.4	+59	15.4	9.5	✓
211	+59°	1038	6	48.2	+59	39.5	8.9	✓
212	+59°	1043	6	50.6	+59	29.1	9.0	✓
213	+59°	1042	6	50.3	+59	3.0	8.9	✓
214	+59°	1047	6	52.1	+59	29.3	9.1	✓
215	+60°	1026	6	53.2	+60	0.5	7.0	✓
216	+60°	1024	6	53.5	+60	20.3	8.5	✓

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No.	Int.	Class	Remark
217	4	A2	
218	7	K0	
219	3	K2	Partly superposed on 218.
220	5	F2	
221	7	K0	
222	2	K0	
223	4	K0	
224	5	K0	
225	1	K0	
226	3	G0	
227	2	A	
228	6	K0	
229	10	K0	
230	5	F5	Knows Too faint. Confs?
231	1	K	
232	2	G	
233	4	F0	
234	2	K2	
235	4	A0	
236	3	K0	
237	6	K2	
238	4	K	E.
239	7	F5	E.
240	5	F0	
241	3	K0	
242	5	G5	
243	7	K0	

217	+60°	1029	6	55.9	+60	29.9	8.8	✓
218	+61°	938	6	56.6	+61	0.7	7.0	✓
219	+60°	1031	6	56.8	+60	57.8	8.6	✓
220	+60°	1032	6	57.3	+60	18.2	8.2	✓
221	+60°	1034	6	58.6	+60	27.2	7.5	✓
222	+59°	1051	6	55.4	+59	28.4	8.8	✓
223	+59°	1052	6	58.2	+59	35.8	8.2	✓
224	+59°	1053	6	58.6	+59	16.9	7.3	✓
225	+59°	1058	6	59.7	+59	21.6	9.0	✓
226	+60°	1035	7	0.7	+60	21.0	8.8	✓
227	+60°	1037	7	2.7	+60	37.8	9.0	✓
228	+60°	1038	7	2.8	+60	0.4	7.3	✓
229	+59°	1065	7	3.2	+59	52.5	5.0	✓
230	+60°	1039	7	4.3	+60	9.7	7.8	✓
231	+59°	1066	7	4.0	+59	17.4	9.3	✓
232	+61°	953	7	5.5	+61	17.9	9.0	✓
233	+61°	954	7	6.7	+61	51.1	8.5	✓
234	+62°	918	7	6.0	+62	10.3	8.5	✓
235	+62°	921	7	8.0	+62	22.1	8.8	✓
236	+62°	920	7	8.0	+62	48.3	8.8	✓
237	+63°	705	7	9.2	+63	7.8	7.9	✓
238	+63°	710	7	14.3	+63	16.6	8.5	✓
239	+63°	633	7	15.1	+63	8.5	7.7	✓
240	+63°	712	7	17.1	+63	16.7	8.7	✓
241	+62°	923	7	13.4	+62	19.2	8.8	✓
242	+62°	925	7	14.2	+62	31.0	8.5	✓
243	+62°	926	7	15.3	+62	9.8	8.0	✓

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No.	Int.	Class	Remark
244	7	A2	
245	2	A	
246	5	F0	
247	1	F5	
248	8	F5	
249	2	ly.	
250	10	A5	
251	2	ly5	
252	3	K2	
253	3	F8	
254	2	ly5	
255	2	A5	
256	3	ly0	
257	2	ly5	
258	3	ly0	
259	3	ly	
260	2	ly	Partly superposed on 259
261	4	F0	
262	2	ly	Partly superposed on 263.
263	3	F5	
264	8	ly5	
265	1	F	
266	2	ly	
267	8	F5	
267a	2	G5	
268	6	K0	
269	9	A2	E.
270	4	K0	

244	+61°	963	7	10.9	+61	43.8	8.3	✓
245	+61°	961	7	9.9	+61	26.2	9.0	✓
246	+61°	959	7	8.8	+61	12.3	8.5	✓
247	+61°	960	7	9.2	+61	7.4	9.0	✓
248	+60°	1046	7	9.1	+60	35.4	8.0	✓
249	+60°	1047	7	9.1	+60	14.7	8.9	✓
250	+60°	1048	7	9.6	+60	9.4	6.5	✓
251	+59°	1078	7	12.2	+59	14.8	8.4	✓
252	+59°	1079	7	14.4	+59	26.7	7.8	✓
253	+59°	1081	7	16.0	+59	6.6	8.9	✓
254	+60°	1056	7	16.0	+60	12.2	8.9	✓
255	+59°	1083	7	18.3	+59	42.3	9.0	✓
256	+59°	1084	7	18.8	+59	36.9	8.2	✓
257	+61°	964	7	12.1	+61	9.7	8.7	✓
258	+60°	1053	7	13.3	+60	40.6	8.8	✓
259	+60°	1054	7	13.8	+60	50.7	8.7	✓
260	+60°	1055	7	13.8	+60	53.3	8.8	✓
261	+61°	972	7	18.0	+61	22.7	8.8	✓
262	+60°	1059	7	18.8	+60	48.1	8.8	✓
263	+60°	1060	7	18.8	+60	46.1	8.4	✓
264	+62°	934	7	19.0	+62	3.0	7.0	✓
265	+61°	973	7	19.5	+61	33.5	9.3	✓
266	+61°	976	7	21.2	+61	37.5	9.0	✓
267	+61°	983	7	25.1	+61	50.7	7.2	✓
267a	+60°	1063	7	22.8	+60	57.3	8.5	✓
268	+61°	991	7	30.0	+61	29.1	8.0	✓
269	+63°	733	7	33.3	+63	10.5	7.0	✓
270	+63°	718	7	21.4	+63	28.5	8.0	✓

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No.	Int.	Class	Remark
271	7	F2	
272	10	a	E.
273	6	~~K5~~	E. Focus very poor.
274	7	a	E.
275	5	K	E.
276	3	F	E. Focus poor.
277	4	g	E.
278	4	F5	E.
279	3	g	Partly superposed on 280.
280	3	A5	
281	3	Mb	
282	6	F8	
283	2	K5	
284	4	F8	
285	3	F5	
286	4	A3	
287	5	a	
288	7	F2	
289	3	Mb	
290	2	K5	
291	7	K5	
292	7	F0	
293	3	A2	
294	8	B9	
295	5	g0	
296	1	Ma	
297	4	F5	

271	+63°	719	6.7	23.7	+63	39.0	7.7 ✓
272	+62°	867	6	27.2	+62	3.6	7.2 ✓
273	+63°	657	6	30.4	+63	5.8	7.2 ✓
274	+62°	874	6	32.2	+62	46.2	7.8 ✓
275	+63°	658	6	33.8	+63	11.8	8.0 ✓
276	+62°	878	6	35.2	+62	16.0	8.8 ✓
277	+62°	882	6	37.8	+62	23.8	8.6 ✓
278	+63°	662	6	39.6	+63	8.3	8.7 ✓
279	+61°	913	6	40.0	+61	15.5	8.7 ✓
280	+61°	914	6	40.1	+61	11.6	8.8 ✓
281	+61°	915	6	40.4	+61	11.6	8.0 ✓
282	+60°	1015	6	45.1	+60	58.5	7.5 ✓
283	+60°	1017	6	45.2	+60	46.4	8.7 ✓
284	+61°	922	6	45.8	+61	31.7	8.5 ✓
285	+61°	921	6	45.8	+61	45.2	9.0 ✓
286	+60°	1023	6	48.4	+60	36.3	8.6 ✓
287	+60°	1024	6	50.3	+60	49.1	8.5 ✓
288	+61°	928	6	49.7	+61	30.0	7.5 ✓
289	+61°	935	6	55.2	+61	26.8	8.7 ✓
290	+61°	937	6	56.5	+61	36.7	8.9 ✓
291	+62°	910	6	56.8	+62	21.4	7.6 ✓
292	+62°	912	6	57.6	+62	5.0	8.4 ✓
293	+61°	941	6	58.2	+61	58.5	9.1 ✓
294	+62°	913	6	59.1	+62	29.5	7.8 ✓
295	+62°	916	7	1.6	+62	23.1	7.8 ✓
296	+61°	944	7	0.2	+61	14.9	8.7 ✓
297	+61°	948	7	1.6	+61	19.7	8.7 ✓

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I 37526

No.	Int.	Class	Remark
298	2	a	E.
299	3	a	E.
300	7	a_2	E.
301	6	K	E.
302	4	F	E.

Time: 23. 15

303	2	a_5	
304	8	a_0	

298	+63°	69.3	7	0.4	+63	10.9	9.1	✓
299	+63°	69.4	7	1.4	+63	5.5	9.2	✓
300	+63°	67.2	6	44.4	+63	11.8	7.5	✓
301	+63°	67.8	6	48.2	+63	57.8	7.3	✓
302	+62°	89.8	6	49.6	+62	50.2	8.4	✓

Identified by A.M.C. May 27, 1912.
Checked by J.C.M. June 4, 1912.

c 303	+63°	62.8	7	4.3	+63	56	8.1	7.9 m I 37565
c 304	+62	93.3	7	18.4	+62	48	7.0	12.7 m I 37676

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Saturday, May 3, 1913

Time: 21. 33

I 37545

Nr.	Int.	Class	Remark
1	5	K5	E.
2	8	K	E.
3	9	Ma	
4	4	Bg	
5	4	K	
6	2	A	Too much superposed on 5. ~~Look up.~~ In section I 36643
7	7	F0	
8	4	K0	
9	2	f	
10	7	A2	
11	1	f	
12	4	K0	
13	10	Bg	E.
14	4	A	Other stars superposed.
15	4	A0	
16	1	f5	
17	8	B8	
18	2	f0	
19	3	f5	
20	3	A0	
21	3	K0	
22	2	f?	Look up.
23	8	A0	E.
24	3	f5	
25	2	f	
26	9	f0	
27	8	A3	

1	+60°	931	6	58.2	+60	28.5	6.9	✓
2	+60°	938	6	2.7	+60	1.7	5.8	✓
3	+61°	869	6	4.6	+61	31.8	5.5	✓
4	+62°	831	6	4.7	+62	14.3	8.9	✓
5	+62°	833	6	7.9	+62	27.4	8.1	✓
6	+62°	834	6	7.9	+62	16.0	8.9	✓
7	+61°	878	6	8.7	+61	48.9	6.9	✓
8	+62°	835	6	8.9	+62	9.5	7.3	✓
9	+61°	873	6	7.4	+61	28.9	8.8	✓
10	+60°	951	6	8.9	+60	49.7	7.0	✓
11	+60°	953	6	10.1	+60	29.1	9.0	✓
12	+60°	955	6	11.2	+60	9.0	7.0	✓
13	+59°	964	6	9.2	+59	24.9	7.0	✓
14	+59°	968	6	11.6	+59	46.9	7.6	✓
15	+60°	961	6	12.9	+60	51.7	8.1	✓
16	+60°	963	6	13.8	+60	42.4	7.9	✓
17	+60°	971	6	17.4	+60	13.8	7.2	✓
18	+60°	970	6	17.0	+60	52.3	8.0	✓
19	+61°	890	6	18.2	+61	26.3	8.0	✓
20	+60°	974	6	19.3	+60	49.7	8.5	✓
21	+60°	978	6	21.9	+60	47.3	8.0	✓
22	+60°	977	6	21.8	+60	34.0	8.5	✓
23	+59°	996	6	23.5	+59	45.9	7.0	✓
24	+59°	998	6	25.3	+59	32.3	7.8	✓
25	+61°	892	6	22.0	+61	29.3	8.6	✓
26	+61°	893	6	24.5	+61	35.7	6.1	✓
27	+61°	896	6	26.4	+61	26.7	7.3	✓

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I 37 545

Nr.	Int.	Class	Remark
28	2	A0	
29	1	A	
30	2	ly5	
31	2	K2	
32	9	A2	
33	1	K0	
34	1	ly0	
35	1	K2	
36	7	K2	
37	7	B8	
38	5	ly5	
39	1	F	
40	1	A	
41	3	ly0	
42	2	ly	
43	3	F2	
44	1	ly	
45	2	ly	
46	2	ly	
47	3	A5	
48	7	A5	
49	2	F	Another star superposed.
50	3	ly0	
51	1	K	
52	2	F5	
53	5	K5	
54	4	B9	

28	+61°	895	6	25.3	+61	8.0	8.7	J
29	+60°	980	6	23.5	+60	48.2	9.0	J
30	+60°	985	6	25.1	+60	11.8	8.4	J
31	+59°	1006	6	29.7	+59	49.2	8.3	J
32	+62°	867	6	27.2	+62	3.6	7.2	J
33	+61°	899	6	29.2	+61	35.9	8.6	J
34	+61°	903	6	31.6	+61	22.9	9.0	J
35	+62°	870	6	30.1	+62	55.0	9.0	J
36	+63°	657	6	30.4	+63	5.8	7.2	J
37	+62°	874	6	32.2	+62	46.2	7.8	J
38	+63°	658	6	33.8	+63	11.8	8.0	J
39	+62°	878	6	35.2	+62	16.0	8.8	J
40	+62°	879	6	36.3	+62	2.7	9.2	J
41	+62°	882	6	37.8	+62	23.8	8.6	J
42	+63°	661	6	37.5	+63	12.8	9.0	J
43	+63°	662	6	39.6	+63	8.3	8.7	J
44	+62°	885	6	40.4	+62	25.8	9.0	J
45	+62°	887	6	41.3	+62	37.9	8.6	J
46	+62°	888	6	42.2	+62	22.2	8.7	J
47	+62°	890	6	43.8	+62	42.5	8.5	J
48	+63°	672	6	44.4	+63	11.8	7.5	J
49	+63°	669	6	43.6	+63	20.8	9.2	J
50	+63°	671	6	44.1	+63	36.1	8.8	J
51	+64°	611	6	45.5	+64	11.4	9.3	J
52	+63°	676	6	47.2	+63	42.4	9.3	J
53	+63°	678	6	48.2	+63	51.8	7.3	J
54	+64°	613	6	48.8	+64	8.5	9.0	J

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No.	Int.	Class	Remark.
55	2	J	
56	2	K0	
57	1	J5	
58	3	J2	
59	3	K0	
60	2	G5	Nearly all superposed on 61.
61	2	G5	
62	3	K0	
63	4	A5	
64	6	F5	
65	2	G5	
66	5	G5	
67	6	F5	
68	7	A0	
69	1	K2	
70	5	F5	
71	3	G	
72	6	A0	
73	2	F5	
74	2	F	
75	1	K	
76	2	G	
77	6	F8	E.
78	2	K	E.
79	3	F	E.
80	5	K0	
81	8	A2	E.

55	+63°	650	6′	50.2	+63	59.4	9.5	✓
56	+63°	684	6′	52.1	+63	39.2	8.4	✓
57	+62°	893	6′	46.3	+62	53.9	9.3	✓
58	+62°	898	6′	49.6	+62	50.2	8.4	✓
59	+63°	686	6′	52.8	+63	2.0	8.1	✓
60	+62°	902	6′	53.4	+62	45.4	7.9	✓
61	+62°	904	6′	53.5	+62	45.5	8.9	✓
62	+62°	909	6′	54.8	+62	32.8	8.6	✓
63	+63°	690	6′	56.0	+63	6.3	8.4	✓
64	+63°	692	6′	57.1	+63	31.7	8.2	✓
65	+64°	608	6′	43.3	+64	41.2	8.7	✓
66	+64°	609	6′	44.6	+64	47.1	8.3	✓
67	+65°	550	6′	43.8	+65	27.8	8.4	✓
68	+65°	553	6′	47.7	+65	56.6	7.5	✓
69	+64°	610	6′	45.4	+64	50.2	9.0	✓
70	+64°	616	6′	52.6	+64	37.6	8.2	✓
71	+64°	617	6′	53.4	+64	49.0	9.2	✓
72	+64°	618	6′	54.8	+64	36.0	8.3	✓
73	+64°	619	6′	55.9	+64	16.3	9.3	✓
74	+64°	621	6′	57.2	+64	24.6	9.1	✓
75	+64°	622	6′	58.2	+64	14.8	9.0	✓
76	+64°	624	7′	1.2	+64	27.1	9.4	✓
77	+65°	562	7′	2.0	+65	1.4	7.0	✓
78	+64°	625	7′	3.3	+64	34.5	9.3	✓
79	+63°	698	7′	4.3	+63	56.1	9.1	✓
80	+64°	628	7′	5.5	+64	22.2	8.0	✓
81	+64°	630	7′	10.4	+64	24.1	7.6	✓

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No.	Int.	Class	Remark
82	3	fg	E.
83	3	fg5	E.
84	8	A2	E.
85	10	A	E.
86	6	A2	E.
87	4	Ko	E.
88	8	Ko	E.
89	5	Bg	E.
90	3	fg	1 superposed on 89+91. Not better on I 36643
91	4	Ao	E.
92	4	B5	Focus too poor.
93	2	A	
94	2	fg	
95	3	fg	
96	1	A	
97	7	Ko	
98	10	Ko	
99	7	f5	
100	5	K2	
101	2	fg5	
102	3	Ko	The Southern Star See I 36643
102a	3	Ko	"
103	1	K	
104	4	f5	
105	2	f2	
106	1	fg5	
107	3	fg5	
108	2	fg5	

82	+65°	565	7	6.0	+65	1.7	9.0 ✓
83	+65°	566	7	6.6	+65	42.0	9.1 ✓
84	+66°	498	7	10.4	+66	5.0	7.3 ✓
85	+66°	502	7	13.0	+66	37.2	6.2 ✓
86	+66°	503	7	13.6	+66	46.7	7.3 ✓
87	+63°	625	5	51.4	+63	42.9	7.6 ✓
88	+63°	630	5	52.8	+63	27.2	6.6 ✓
89	+62°	813	5	54.6	+62	37.1	8.0 ✓
90	+62°	812	5	54.5	+62	50.2	8.4 ✓
91	+62°	811	5	54.4	+62	59.1	7.9 ✓
92	+62°	818	5	57.4	+62	20.2	8.5 ✓
93	+62°	821	5	59.1	+62	47.3	8.9 ✓
94	+63°	640	6	0.5	+63	41.3	9.3 ✓
95	+63°	641	6	3.3	+63	18.4	8.5 ✓
96	+64°	574	6	2.6	+64	21.3	9.0 ✓
97	+64°	575	6	3.0	+64	52.1	7.5 ✓
98	+65°	517	6	58.3	+65	42.9	5.7 ✓
99	+66°	435	6	0.9	+66	10.7	8.0 ✓
100	+65°	519	6	2.6	+65	44.4	8.2 ✓
101	+65°	521	6	5.2	+65	10.7	9.0 ✓
102	+65°	523	6	5.9	+65	31.8	8.5 ✓
102a	+65°	522	6	5.8	+65	40.4	8.4 ✓
103	+65°	524	6	8.7	+65	32.1	9.4 ✓
104	+64°	580	6	9.6	+64	58.2	8.6 ✓
105	+64°	584	6	12.3	+64	17.2	8.8 ✓
106	+64°	585	6	12.6	+64	10.7	9.0 ✓
107	+63°	645	6	12.0	+63	42.6	8.5 ✓
108	+63°	642	6	7.2	+63	3.4	8.8 ✓

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No.	Int.	Class	Remark
109	4	K5	
110	5	Z0	
111	2	fy	
112	5	K0	
113	4	A	
114	3	A0	
115	2	A	
116	2	B9	
117	2	K	
118	5	K0	
119	3	K5	
120	3	K0	
121	2	Z	
122	3	fy0	
123	4	fy5	
124	7	B9	
125	3	A2	
126	3	Z5	
127	3	A2	
128	2	fy	
129	1	fy	
130	3	A2	
131	4	fy5	
132	3	fy	Another star superposed.
133	4	Z8	
134	2	Z8	
135	5	Z8	

109	+62°	840	6	12.4	+62	45.7	7.3	✓
110	+62°	843	6	14.7	+62	147.7	7.8	✓
111	+62°	850	6	18.0	+62	58.4	8.8	✓
112	+62°	853	6	18.6	+62	50.6	7.3	✓
113	+63°	649	6	19.6	+63	14.6	8.7	✓
114	+62°	864	6	24.6	+62	33.0	8.9	✓
115	+62°	866	6	25.1	+62	44.7	9.4	✓
116	+63°	654	6	26.7	+63	4.9	9.5	✓
117	+63°	656	6	28.5	+63	36.8	8.6	✓
118	+64°	600	6	28.8	+64	13.4	7.9	✓
119	+64°	602	6	34.5	+64	54.5	8.5	✓
120	+65°	543	6	35.0	+65	0.4	9.1	✓
121	+65°	544	6	35.7	+65	34.5	9.2	✓
122	+65°	546	6	39.0	+65	19.5	9.4	✓
123	+65°	547	6	39.5	+65	10.7	8.1	✓
124	+64°	603	6	37.0	+64	29.8	8.3	✓
125	+64°	604	6	38.5	+64	19.3	9.3	✓
126	+63°	659	6	35.2	+63	51.4	9.1	✓
127	+65°	525	6	11.3	+65	31.5	9.0	✓
128	+65°	526	6	11.4	+65	57.1	9.2	✓
129	+65°	527	6	13.9	+65	46.4	9.2	✓
130	+65°	528	6	14.2	+66	32.8	8.7	✓
131	+65°	531	6	16.7	+65	14.4	7.8	✓
132	+64°	589	6	16.7	+64	57.7	8.6	✓ 4.65° 5.90 superposed
133	+64°	587	6	16.4	+64	31.7	8.2	✓
134	+65°	529	6	16.6	+65	32.9	9.0	✓
135	+65°	532	6	17.0	+65	33.5	8.8	✓

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No.	Int.	Class	Remark
136	7	F2	
137	2	A	
138	2	F	Confirm. Confirmed 3664 3
139	2	G5	
140	4	F5	
141	4	K2	
142	8	F5	
143	2	A	
144	3	A0	
145	2	G	
146	2	G	
147	7	G5	
148	4	G	Superposed on 147.
149	3	K2	
150	4	F2	
151	5	F0	
152	2	A0	
153	8	B8	
154	2	F8	
155	8	F8	
156	7	F8	
157	4	A	Another star superposed?
158	8	B9	
159	4	A	
160	3	K0	
161	3	G	Poor focus
162	3	G	" "

136	+65°	533	6	19.8	+65	22.1	7.3	✓
137	+64°	591	6	20.6	+64	43.1	9.0	✓
138	+64°	590	6	18.4	+64	7.3	8.8	✓
139	+64°	592	6	22.3	+64	5.5	8.8	✓
140	+63°	652	6	24.0	+63	57.5	8.6	✓
141	+64°	596	6	24.9	+64	15.8	8.0	✓
142	+64°	593	6	24.1	+64	51.0	7.9	✓
143	+64°	595	6	27.5	+64	54.0	9.2	✓
144	+64°	597	6	25.2	+64	43.4	8.8	✓
145	+64°	598	6	26.6	+64	46.7	9.1	✓
146	+65°	536	6	25.6	+65	10.2	9.5	✓
147	+65°	537	6	26.7	+65	6.2	8.0	+65° 538 Superposed
148	+65°	539	6	27.0 (6.8)	+65	11.3 (9.0)	9.0 (8.8)	✓
149	+65°	540	6	27.4	+65	22.4	9.2	✓
150	+65°	541	6	28.6	+65	10.8	8.7	✓
151	+66°	451	6	21.8	+66	8.1	9.0	✓
152	+65°	535	6	22.4	+65	59.2	9.1	✓
153	+66°	455	6	24.8	+66	16.6	7.5	✓
154	+66°	459	6	27.2	+66	3.1	9.2	✓
155	+66°	460	6	27.8	+66	19.3	7.0	✓
156	+66°	463	6	29.4	+66	25.4	7.7	✓
157	+67°	455	6	23.5 ~~24.8~~	+67	10.5	8.6	✓
158	+67°	441	6	25.1	+67	26.2	7.9	✓
159	+67°	442	6	26.0	+67	11.1	9.1	✓
160	+66°	458	6	27.1	+66	58.3	8.7	✓
161	+67°	443	6	28.0	+67	30.1	9.1	✓
162	+67°	446	6	31.0	+67	21.9	9.0	✓

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No.	Int.	Class	Remark
163	5	F8	
164	2	A0	
165	4	K5	
166	2	K	
167	10+	B2	
168	4	A2	
169	3	A2	
170	1	K	
171	5	G0	
172	2	A	
173	2	K5	
174	1	K2	
175	2	G5	Comet
176	2	G	
177	2	K	
178	2	G	
179	8	G5	
180	5	G0	
181	2	A	
182	3	K0	
183	2	F	
184	6	A2	
185	2	G5	
186	5	K5	
187	3	G5	
188	4	G5	
189	7	G5	E.

163	+67°	44.7	6	32.4	+67	1.2	8.4	J
164	+67°	45.0	6	33.4	+67	13.2	9.3	J
165	+67°	45.2	6	34.8	+67	40.2	8.2	J
166	+67°	45.3	6	35.2	+67	10.0	9.1	J
167	+67°	45.4	6	36.8	+67	43.7	5.2	J
168	+67°	45.8	6	38.3	+67	22.0	8.0	J
169	+67°	46.1	6	40.5	+67	24.0	9.0	J
170	+66°	46.5	6	32.9	+66	23.5	9.2	J
171	+66°	46.7	6	35.8	+66	25.8	8.5	J
172	+66°	46.8	6	35.8	+66	4.4	9.1	J
173	+66°	46.9	6	39.0	+66	35.9	8.5	J
174	+66°	47.0	6	39.2	+66	20.2	8.7	J
175	+66°	47.2	6	40.2	+66	9.3	8.8	J
176	+65°	54.8	6	41.0	+65	47.8	9.3	J
177	+66°	47.5	6	43.6	+66	4.0	8.8	J
178	+66°	47.6	6	45.4	+66	32.9	9.3	J
179	+67°	46.6	6	45.4	+67	30.4	7.0	J
180	+67°	47.0	6	48.7	+67	08.7	8.0	J
181	+67°	47.3	6	51.0	+67	33.3	9.0	J
182	+67°	47.6	6	53.6	+67	30.4	8.5	J
183	+66°	48.2	6	54.8	+66	59.8	9.2	J
184	+66°	48.0	6	54.2	+66	16.8	8.0	J
185	+66°	48.1	6	54.4	+66	11.3	8.3	J
186	+66°	48.7	6	58.1	+66	50.0	7.7	J
187	+67°	47.80	7	0.1	+67	58.9	8.8	J
188	+67°	48.1	7	1.8	+67	20.0	7.8	J
189	+66°	49.3	7	4.5	+66	59.5	7.5	J

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No.	Int.	Class	Remark
190	3	A	Focus very poor
191	5	A2	
192	3	K	
193	4	F5	E.
194	5	G	E.
195	7	B9	E.
196	9	K	E.
197	5	F2	E.
198	7	A3	E.
199	7	A2	E.
200	7	F5	E.
201	8	A0	E.
202	4	K5	E.
203	4	A0	E.
204	4	G5	
205	3	K	
206	3	A	
207	4	G	
208	4	G	
Time 22.08	209	5	F0

190	+68°	47.0	7	3.5	+68	12.1	8.5	✓
191	+68°	47.2	7	5.2	+68	47.6	7.5	✓
192	+67°	48.3	7	6.2	+67	54.9	8.5	✓
193	+68°	47.6	7	9.0	+68	11.1	8.4	✓
194	+67°	48.5	7	8.6	+67	29.9	7.9	✓
195	+67°	48.6	7	10.4	+67	24.0	7.6	✓
196	+68°	48.0	7	15.8	+68	45.5	5.5	✓
197	+65°	51.0	5	51.6	+65	9.0	8.4	✓
198	+65°	51.1	5	52.6	+65	24.0	7.6	✓
199	+66°	~~51.4~~ 4.5	5	51.3	+66	15.8	8.1	✓
200	+66°	42.3	5	49.9	+66	56.7	8.2	✓
201	+66°	41.9	5	45.8	+66	59.9	7.0	✓
202	+66°	42.0	5	47.3	+66	51.7	7.7	✓
203	+67°	40.7	5	47.4	+67	18.0	8.3	✓
204	+67°	41.0	5	50.8	+67	38.5	8.7	✓
205	+67°	41.2	5	52.2	+67	21.3	8.2	✓
206	+67°	41.3	5	55.3	+67	19.3	9.0	✓
207	+66°	43.7	6	4.3	+66	40.8	8.5	✓
208	+66°	43.9	6	5.8	+66	40.3	8.5	✓
209	+66°	44.1	6	9.6	+66	35.0	8.5	✓

Identified by AMC May 28, 1912

Checked by J. C. M. June 26, 1912.

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Tuesday May 6. 1912

Time: 22.12 I 37706

No.	Int.	Class	Remark
1	4	Ma	
2	3	ly5	
3	4	ly5	
4	7	A2	
5	4	ly5	
6	2	M	
7	2	ly	
8	4	ly5	
9	3	ly5	Is superposed on 8.
10	3	ly	
11	8	K0	
12	2	ly5	
13	1	M	
14	2	ly	
15	2	ly	
16	1	ly5	
17	1	ly5	
18	6	ly5	
19	1	A2	
20	5	K5	
21	3	K2	
22	2	A	
23	1	ly5	
24	4	F5	
25	10	ly0	
26	7	F0	
27	6	K0	

1	+69°	506	8	55.6	+69	47.7	8.0	✓
2	+69°	507	8	56.3	+69	28.3	9.3	✓
3	+69°	508	8	56.5	+69	43.4	8.7	✓
4	+69°	509	8	58.5	+69	37.8	8.5	✓
5	+69°	510	8	59.0	+69	40.4	8.7	✓
6	+70°	548	8	56.6	+70	22.0	8.5	✓
7	+70°	551	8	59.3	+70	17.9	9.0	✓
8	+70°	554	9	0.1	+70	31.9	7.4	✓
9	+70°	555	9	0.2	+70	33.7	8.9	✓
10	+71°	489	8	53.4	+71	4.6	8.8	✓
11	+70°	557	9	4.1	+70	28.6	7.0	✓
12	+69°	514	9	4.0	+69	40.7	8.8	✓
13	+69°	515	9	5.4	+69	41.0	8.8	✓
14	+71°	499	9	6.3	+71	0.5	9.0	✓
15	+71°	497	9	5.6	+71	41.0	9.0	✓
16	+71°	500	9	7.9	+71	30.8	9.1	✓
17	+71°	503	9	12.0	+71	3.5	8.5	✓
18	+70°	561	9	12.8	+70	58.5	7.6	✓
19	+70°	559	9	9.4	+70	3.2	9.4	✓
20	+69°	517	9	10.2	+69	58.2	7.4	✓
21	+69°	518	9	11.2	+69	28.7	7.8	✓
22	+70°	563	9	16.0	+70	0.4	9.0	✓
23	+69°	520	9	16.4	+69	23.7	9.0	✓
24	+70°	564	9	19.6	+70	21.3	8.5	✓
25	+70°	565	9	21.6	+70	28.6	5.2	✓
26	+70°	567	9	24.0	+70	16.6	7.5	✓
27	+71°	504	9	21.1	+71	42.0	7.3	✓

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No.	Int.	Class	Remark
28	2	ly	
29	2	ly0	
30	8	Y2	
31	5	Y0	
32	1	ly	
33	1	ly	
34	10	Y0	
35	8	Y2	Ktoo faint. Another star superposed at violet
36	2		
37	2	ly5	
38	5	Y2	
39	3	Y2	
40	1	ly	
41	2	ly5	
42	4	Y0	
43	3	Y0	
44	4	Y0	
45	3	ly5	
46	4	Y5	
47	2	Cont.	Cluste - ro bright lines.
48	1	Y	
49	5	Y0	
50	7	Y0	
51	8	Y0	
52	7	Y5	
53	1	ly	
54	2	Av	

28	+72°	H60	9	18.5	+72	16.1	9.1	✓
29	+71°	507	9	25.2	+71	16.0	9.2	✓
30	+70°	568	9	25.4	+70	54.8	7.0	✓
31	+69°	526	9	26.3	+69	56.6	8.2	✓
32	+70°	571	9	28.0	+70	15.6	9.0	✓
33	+69°	530	9	28.8	+69	57.8	8.9	✓
34	+69°	531	9	29.8	+69	52.9	6.1	✓
35	+69°	528	9	28.2	+69	11.9	8.0	✓
36	+69°	533	9	32.8	+69	21.2	9.1	✓
37	+70°	570	9	27.2	+70	56.8	8.8	✓
38	+71°	509	9	31.1	+71	5.6	8.0	✓
39	+70°	575	9	32.0	+70	56.3	7.8	✓
40	+71°	510	9	31.7	+71	45.3	9.2	✓
41	+72°	469	9	32.0	+72	4.9	8.6	✓
42	+70°	582	9	38.2	+70	51.8	8.0	✓
43	+71°	514	9	38.8	+71	5.1	8.7	✓
44	+70°	584	9	41.0	+70	33.1	8.1	✓
45	+70°	588	9	43.4	+70	43.5	8.2	✓
46	+69°	542	9	43.0	+69	34.9	8.5	✓
47	+69°	543	9	43.5	+69	44.8	Neb.	✓
48	+69°	544	9	45.0	+69	35.0	9.0	✓
49	+69°	545	9	45.6	+69	9.9	8.0	✓
50	+69°	550	9	49.8	+69	24.6	7.7	✓
51	+69°	551	9	50.6	+69	43.2	7.7	✓
52	+69°	552	9	51.2	+69	29.0	7.8	✓
53	+69°	555	9	54.7	+69	21.8	9.1	✓
54	+69°	559	9	57.3	+69	23.5	9.2	✓

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I 37706

No.	Int.	Class	Remark
55	2	ly5	
56	6	K0	
57	4	A5	
58	4	ly5	
59	2	ly	
60	2	F8	
61	2	ly	
62	4	ly5	
63	4	F8	
64	3	K0	
65	2	ly5	
66	5	K0	
67	2	M6	
68	2	F	
69	7	K0	
70	5	B8	
71	4	F5	
72	6	F0	
73	10	A2	Focus poor.
74	6	K0	
75	4	F5	
76	3	F2	
77	5	F2	
78	5	K0	
79	10	F0	
80	4	K0	
81	4	K0	

53	+69°	55.8	9	57.2	+69	8.8	8.8	✓
56	+69°	56.1	9	58.1	+69	23.0	7.0	✓
57	+69°	56.2	9	59.6	+69	53.0	8.9	✓
58	+71°	51.8	9	42.8	+71	45.6	8.0	✓
59	+72°	47.4	9	44.0	+72	5.4	9.0	✓
60	+71°	52.0	9	47.2	+71	28.2	8.8	✓
61	+71°	52.2	9	48.3	+71	26.0	8.7	✓
62	+71°	52.4	9	50.3	+71	27.5	8.0	✓
63	+71°	52.5	9	52.2	+71	34.4	8.2	✓
64	+72°	47.6	9	50.7	+72	3.4	8.0	✓
65	+72°	47.8	9	55.4	+72	53.7	8.9	✓
66	+72°	47.9	9	56.9	+72	23.0	7.5	✓
67	+72°	48.2	10	0.9	+72	42.7	9.0	✓
68	+71°	53.0	9	59.7	+71	55.1	9.2	✓
69	+71°	52.9	9	59.2	+71	33.5	7.5	✓
70	+70°	59.3	9	53.0	+70	55.8	8.0	✓
71	+70°	59.6	9	55.6	+70	33.7	8.5	✓
72	+70°	59.8	9	56.2	+70	38.2	7.5	✓
73	+71°	53.4	10	6.1	+71	47.1	6.3	✓
74	+73°	49.1	10	7.1	+73	9.6	7.6	✓
75	+72°	48.6	10	11.0	+72	53.6	8.4	✓
76	+72°	48.9	10	12.8	+72	13.3	8.5	✓
77	+70°	60.3	10	6.2	+70	43.3	8.2	✓
78	+69°	56.7	10	9.5	+69	45.0	7.7	✓
79	+69°	56.8	10	10.0	+69	28.9	6.0	✓
80	+69°	56.9	10	11.0	+69	39.2	7.5	✓
81	+68°	60.5	10	15.6	+68	24.3	7.2	✓

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May 6, 1912

I 37706

	No.	Int.	Class	Remark
	82	3	$\frac{1}{2}5$	
June 22.34	83	3	7	E. Difficult
	84	9	Fr5	
	85	8	B9	
	86			

82	+69°	57.4	10.	20.7	+69	3.4	7.9	J	Ewell
83	+68°	60.9	10	21.5	+68	58.5	8.8	J	

Identified May 28, 1912 by ANR

Checked by J C M. June 26, 1912.

✓ 84	+72	46.2	9	21.2	+72	58	6.0	40 m	37714
✓ 85	+74	40.2	9	21.6	+74	59	7.3	89 "	"

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Tuesday May 6, 1912

Time: 22.36

I 37517

Nr.	Int.	Class	Remark
1	9	Fo	E.
2	2	fg	E.
3	3	fgo	E.
4	3	fg5	E.
5	1	fg	E.
6	4	fg5	E.
7	2	fgo	
8	1	fg5	
9	2	fg5	
10	8	Fo	
11	4	fg5	
12	2	Fg	
13	1	fg	
14	3	Fo	
15	5	Ko	
16	1	F	
17	3	Fg	
18	2	fg5	
19	3	Fg	
20	10	A5	H lines very sharp.
21	4	Ko	
22	1	A	
23	5	A5	
24	1	Ke	
25	3	fg5	
26	1	Fe	
27	1	fg5	

1	+62°	1027	8	41.4	+62	29.5	5.7	l
2	+62°	1028	8	42.5	+62	43.3	8.0	J
3	+63°	806	8	41.9	+63	7.4	7.8	l
4	+63°	798	8	36.6	+63	57.5	8.0	J
5	+63°	801	8	38.0	+63	53.0	9.1	J
6	+64°	707	8	37.1	+64	47.3	7.0	J
7	+64°	710	8	38.8	+64	57.1	8.5	J
8	+64°	711	8	40.8	+64	14.0	9.1	J
9	+64°	712	8	42.9	+64	0.8	8.0	J
10	+63°	812	8	46.9	+63	54.0	7.2	J
11	+62°	1036	8	48.4	+62	29.9	7.8	J
12	+62°	1043	8	53.2	+62	49.7	8.6	J
13	+63°	819	8	54.3	+63	24.5	8.4	J
14	+63°	820	8	54.4	+63	36.3	8.6	J
15	+64°	716	8	53.4	+64	37.5	7.5	J
16	+64°	717	8	53.5	+64	59.5	9.3	J
17	+65°	688	8	55.3	+65	33.1	8.7	J
18	+65°	689	8	56.9	+65	52.1	9.1	J
19	+64°	721	8	57.9	+64	51.2	8.5	J
20	+64°	723	8	58.9	+64	6.2	5.0	J
21	+63°	823	8	57.5	+63	49.5	7.7	J
22	+63°	824	8	59.6	+63	56.3	8.6	J
23	+63°	825	8	58.6	+63	1.8	7.8	J
24	+62°	1051	9	0.0	+62	57.6	8.7	J
25	+63°	831	9	2.0	+63	21.3	8.0	J
26	+63°	832	9	2.4	+63	46.4	8.8	J
27	+64°	724	9	2.0	+64	5.9	9.8	J

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May 6, 1912

I 37517

No.	Int.	Class	Remark
28	4	F5	
29	4	F8	
30	1	lg	
31	2	K	
32	4	F2	
33	8	K2	
34	3	K0	
35	4	A2	
36	3	F8	
37	10+	F0	
38	3	F0	
39	2	K5	
40	1	F5	
41	2	F8	
42	2	F5	
43	4	lg5	
44	7	F0	
45	8	F0	
46	3	F8	2
47	2	lg5	
48	4	A5	
49	2	K0	
50	5	A3	
51	2	lg5	
52	8	F0	
53	6	lg5	
54	9	F2	

28	+63°	835	g	7.2	+63	27.2	8.0	✓
29	+63°	836	g	8.7	+63	7.1	7.8	✓
30	+63°	837	g	11.1	+63	27.5	9.0	✓
31	+63°	838	g	12.0	+63	47.9	8.5	✓
32	+64°	732	g	13.4	+64	10.9	8.9	✓
33	+64°	733	g	14.0	+64	34.0	6.5	✓
34	+65°	711	g	13.9	+65	11.8	7.6	✓
35	+64°	735	g	15.2	+64	57.8	7.8	✓
36	+64°	736	g	16.9	+64	59.5	8.3	✓
37	+63°	845	g	20.1	+63	40.5	3.5	✓
38	+62°	1069	g	12.7	+62	23.8	8.2	✓
39	+62°	1072	g	17.2	+62	21.2	7.8	✓
40	+62°	1073	g	19.3	+62	7.8	9.0	✓
41	+62°	1075	g	21.4	+62	34.6	8.8	✓
42	+63°	846	g	20.8	+63	20.3	9.0	✓
43	+63°	848	g	22.5	+63	28.8	8.2	✓
44	+63°	851	g	25.1	+63	25.9	7.4	✓
45	+61°	1132	g	24.2	+61	31.7	7.5	✓
46	+61°	1134	g	25.0	+61	52.3	8.0	✓
47	+62°	1080	g	28.4	+62	44.8	8.7	✓
48	+62°	1081	g	29.3	+62	36.0	8.2	✓
49	+63°	855	g	30.3	+63	21.7	8.0	✓
50	+63°	858	g	32.1	+63	35.1	7.5	✓
51	+63°	859	g	33.4	+63	3.1	8.0	✓
52	+64°	752	g	34.7	+64	19.1	6.8	✓
53	+63°	861	g	36.5	+63	55.1	7.0	✓
54	+65°	731	g	33.2	+65	38.3	6.3	✓

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May 6, 1912

I 37517

No.	Int.	Class	Remark
55	5	Ma	Perhaps K5.
56	2	lg	
57	2	K	
58	10	F0	
59	8	F5	
60	4	K0	
61	3	lg	
62	4	A	E.
63	4	F8	E.
64	4	lg5	E.
65	4	lg5	E.
66	5	F8	E.
67	9	B8	
68	3	lg5	
69	7	F0	
70	4	lg5	
71	10	lg	
72	2	K	
73	2	F	Another star superposed?
74	3	lg0	
75	9	Ma	
76	3	A	
77	7	A5	E.
78	2	lg	
79	2	A3	Difficult
80	8	K5	
81	2	F8	

55	+66°	630	9	34.5	+66	17.1	7.2	J
56	+66°	635	9	36.8	+66	8.3	8.8	J
57	+66°	636	9	37.2	+66	27.4	8.8	J
58	+66°	637	9	39.0	+66	15.6	6.7	J
59	+65°	736	9	37.4	+65	33.7	7.3	J
60	+65°	741	9	42.7	+65	28.0	7.4	J
61	+66°	640	9	44.4	+66	26.9	8.4	J
62	+66°	642	9	47.0	+66	35.7	8.4	J
63	+66°	644	9	48.2	+66	0.9	8.4	J
64	+64°	762	9	46.6	+64	2.6	7.8	J
65	+65°	658	8	33.7	+65	58.2	8.5	J
66	+66°	575	8	34.8	+66	43.8	7.7	J
67	+67°	560	8	35.6	+67	13.4	6.0	J
68	+66°	580	8	38.8	+66	59.1	7.8	J
69	+66°	589	8	46.0	+66	33.3	7.0	J
70	+66°	587	8	44.2	+66	3.9	7.5	J
71	+65°	673	8	44.1	+65	9.0	6.0	J
72	+65°	679	8	49.5	+65	1.0	8.5	J
73	+67°	567	8	44.6	+67	50.5	8.8	J
74	+67°	569	8	46.0	+67	38.0	8.8	J
75	+68°	551	8	49.4	+68	11.3	5.1	V
76	+68°	553	8	52.6	+68	40.1	8.5	J
77	+69°	504	8	53.1	+69	1.5	7.3	J
78	+67°	572	8	53.7	+67	17.0	8.9	J
79	+66°	594	8	54.4	+66	54.5	9.3	J
80	+67°	573	8	58.7	+67	27.2	5.2	J
81	+67°	574	8	56.7	+67	43.8	9.1	J

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May 6, 1912

H 37.517

No.	Int.	Class	Remark
82	10	F5	
83	5	F5	
84	4	F0	
85	2	ly	Too much superposed on 84. Look up.
86	4	A2	
87	6	F0	
88	6	F2	
89	3	A2	
90	2	A2	
91	5	ly5	
92	2	F0	
93	3	A2	
94	7	F0	
95	3	ly	
96	#1	ly	
97	5	ly0	
98	2	ly	
99	2	K	
100	2	ly0	
101	1	ly	
102	1	K	
103	1	K	
104	1	K	
105	2	ly5	
106	4	F0	
107	3	ly5	
108	1	ly	

82	+67°	5'77	8'	57.6	+67	43.8	5.3 ✓
83	+68°	5'57	8'	58.1	+68	3.2	8.0 ✓
84	+67°	5'76	8'	57.4	+67	14.7	8.8 ✓
85	+67°	5'75	8'	57.3	+67	6.3	9.1 ✓
86	+66°	5'97	8'	58.0	+66	25.0	8.4 ✓
87	+66°	5'99	9'	1.0	+66	18.7	7.7 ✓
88	+66°	6'00	9'	1.3	+66	23.2	7.7 ✓
89	+66°	6'02	9'	1.8	+66	29.9	8.5 ✓
90	+66°	6'04	9'	5.7	+66	3.8	8.3 ✓
91	+65°	7'03	9'	8.2	+65	38.7	7.5 ✓
92	+65°	7'05	9'	9.4	+65	26.2	8.7 ✓
93	+67°	5'79	9'	0.4	+67	52.9	9.0 ✓
94	+67°	5'81	9'	2.6	+67	43.8	7.8 ✓
95	+67°	5'82	9'	4.3	+67	56.3	8.8 ✓
96	+67°	5'83	9'	6.1	+67	49.7	9.2 ✓
97	+67°	5'84	9'	7.5	+67	23.2	8.3 ✓
98	+67°	5'85	9'	9.6	+67	48.8	9.1 ✓
99	+67°	5'86	9'	10.6	+67	36.6	8.7 ✓
100	+67°	5'88	9'	12.1	+67	48.7	8.8 ✓
101	+66°	6'10	9'	11.4	+66	45.6	8.3 ✓
102	+66°	6'12	9'	13.0	+66	9.8	8.5 ✓
103	+66°	6'16	9'	16.4	+66	11.7	8.6 ✓
104	+66°	6'18	9'	18.9	+66	18.5	9.0 ✓
105	+66°	6'21	9'	21.3	+66	27.0	8.0 ✓
106	+66°	6'23	9'	23.4	+66	2.4	7.3 ✓
107	+65°	7'22	9'	23.5	+65	6.9	8.5 ✓
108	+64°	7'43	9'	24.2	+64	55.1	8.9 ✓

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May 6, 1912

I 37517

Nr.	Int	Class	Remark
109	3	g_5	
110	4	F_8	
111	3	F_5	
112	2	K	
113	8	A2	
114	3	K0	
115	5	F0	
116	1	K	
117	2	g	Partly superposed on 118.
118	7	F_5	
119	1	g_5	
120	8	K5	
121	4	A2	
122	3	F_8	
123	2	F	
124	5	F2	
125	3	g	
126	2	A	
127	1	A0	
128	1	g_5	Difficult.

Line: 23.0

June 15, 1916 129 5 A5

Cmk. 135, 136

109	+65°	723	g	25.0	+65	1.5	8.5	J
110	+65°	727	g	26.1	+65	3.0	8.1	J
111	+64°	742	g	23.4	+64	21.7	9.0	J
112	+65°	728	g	26.8	+65	46.7	8.8	J
113	+68°	572	g	18.8	+68	9.3	6.8	J
114	+67°	592	g	18.8	+67	39.8	8.2	J
115	+67°	594	g	19.5	+67	29.5	7.5	J
116	+67°	595	g	20.5	+67	20.2	8.5	J
117	+67°	596	g	21.9	+67	24.1	8.8	J
118	+67°	597	g	22.2	+67	26.0	7.2	J
119	+68°	577	g	26.6	+68	39.0	8.8	J
120	+67°	602	g	27.4	+67	53.2	6.5	J
121	+67°	608	g	29.9	+67	24.1	8.0	J
122	+67°	610	g	31.2	+67	2.4	8.2	J
123	+67°	611	g	31.2	+67	48.7	8.3	J
124	+67°	617	g	38.2	+67	13.8	8.0	J
125	+67°	621	g	41.1	+67	55.5	8.0	J
126	+68°	563	g	4.4	+68	38.5	9.3	J
127	+68°	566	g	10.2	+68	41.1	9.5	J
128	+68°	567	g	11.2	+68	19.2	8.7	J

Identified by Mrs. May 31, 1917
checked by Mr C. W. Oct. 1, 1912.
cards made out by Mr C. W.

129	+61°	1114	g	9.4	+61	59.3	25	Nr. 1470 in 377705

Card made out by A.J.C.

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May 11, 1912

B12025 Shot

No.	Sat.	class	Remark
1	4	K5	
2	3	K5	
3	10	Fk	
4	5	K0	
5	2	G	
6	2	K2	
7	3	K2	
8	6	F5	
9	2	G5	
10	4	F	
11	6	K0	
12	6	K2	
13	10+	G0	Burned out.
14	3	K0	
15	2	K0	
16	3	A	Maybe A5
17	5	F	
18	6	F5	
19	3	G	
20	6	G5	
21	5	A	
22	2	K	
23	6	G5	
24	4	K0	
25	3	F5	
26	4	G0	
27	4	F	

1	-6°	275	1	21.0	-6	49.5	8.2	✓
2	-6°	278	1	21.7	-6	27.1	7.8	✓
3	-6°	280	1	22.6	-6	20.7	7.0	✓
4	-5°	271	1	23.7	-5	42.3	7.2	✓
5	-5°	273	1	24.5	-5	42.3	8.3	✓
6	-6°	284	1	23.8	-6 (5)	17.5	8.5	✓
7	-6°	289	1	24.7	-6	38.4	8.4	✓
8	-7°	239	1	21.8	-7	35.9	8.1	✓
9	-7°	240	1	22.4	-7	21.2	8.7	✓
10	-7°	242	1	22.7	-7	24.7	9.1	✓
11	-7°	246	1	23.9	-7	46.6	7.8	✓
12	-7°	250	1	24.7	-7	28.3	7.6	✓
13	-7°	256	1	26.4	-7	45.7	6.1	✓
14	-7°	257	1	27.0	-7	1.0	8.5	✓
15	-8°	269	1	26.8	-8	18.6	8.2	✓
16	-8°	273	1	27.5	-8	7.0	8.6	✓
17	-8°	274	1	28.1	-8	18.7	8.2	✓
18	-8°	278	1	29.6	-8	11.1	8.3	✓
19	-7°	265	1	28.9	-7	8.3	8.7	✓
20	-7°	268	1	30.3	-7	29.7	7.8	✓
21	-7°	269	1	30.9	-7	23.6	8.5	✓
22	-7°	270	1	30.9	-7	39.0	8.7	✓
23	-7°	276	1	33.5	-7	20.6	8.2	✓
24	-6°	315	1	33.6	-6	54.0	8.5	✓
25	-8°	289	1	32.8	-8	10.8	8.5	✓
26	-6°	316	1	33.7	-6	8.5	8.4	✓
27	-5°	296	1	33.1	-5	12.0	8.4	✓

Cards made out

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May 11, 1912 (Contd)
B12025 Flint

No.	Dist	class	Remark
28	2	F5	
29	3	G5	
30	3	K0	
31	9	K0	
32	6	F5	Poor focus
33	8	F5	Poor focus
34	4	A0	
35	5	F0	Partly sulp. on Sp. star at south.
36	4	G0	
37	3	G5	
38	4	F8	
39	2	G0	
40			
41			
42			
43			
44			

28	−5°	297	1	33.4	−5	18.7	8.7	✓
29	−5°	300	1	34.8	−5	40.8	8.5	✓
30	−6°	327	1	36.6	−6	15.0	8.5	✓
31	−5°	309	1	36.6	−5	29.9	6.5	✓
32	−5°	285	1	28.4	−5	49.3	8.0	✓
33	−6°	307	1	31.5	−6	28.2	7.3	✓

Identified by AWC, May 31, 1912
Checked by J. B. M. Feb. 25, 1913.
cards made out by M. C. W.
Cards checked by J. B. W.

	34	−7°	291	1	~~38.8~~	−7	10	8.7	12	on B10360
✓	35	−7°	288	1	37.5	−7	24	8.3	11	0 4
✓	36	−6°	345	1	42.7	−6	54	8.5	16	" "
✓	37	−7°	309	1	43.6	−7	51	8.7	18	" "
✓	38	−8°	325	1	44.1	−8	48	8.3	45	" "
✓	39	−6°	348	1	43.2	−6	30	9.0	73	" "

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