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Feb. 25, 1912

Time: 23 hrs. 42½ min. I 37594

No.	Class	Int.	Remark
1	B5	6	
2	B8	4	
3	B5	5	
4	K5	6	
5	B8	5	
6	B9	3	
7	K5	3	
8	B8	3	
9	B9	2	
10	B3	9	
11	B2	10	Burned out.
12	K5	5	
13	B9	4	
14	B9	4	
15	B5	7	
16	B3	10	
17	B9	3	
18	K5	6	
19	B	10+	Burned out
20	G	2	
21	B8	5	
22	B9	4	
23	A5	6.5	
24	A0	7	
25	A0	4	
26	A2	8	
27	K2	8	

1	− 0°	1009	5	27.8 − 0°	49.8	8.3 ✓
2	− 0°	1007	5	27.7 − 0	21.5	8.6 ✓
3	− 0°	1005	5	27.5 − 0	12.9	8.2 ✓
4	− 0°	1000	5	27.1 − 0	6.8	7.7 ✓
5	− 0°	996	5	26.6 − 0	34.5	8.8 ✓
6	− 0°	1006	5	27.6 − 0	55.3	9.0 ✓
7	− 1°	953	5	27.4 − 1	2.9	8.3 ✓
8	− 0°	999	5	27.0 − 0	52.2	9.0 ✓
9	− 0°	1002	5	27.1 − 0	29.0	8.9 ✓
10	− 1°	949	5	26.7 − 1	7.8	7.7 ✓
11	− 1°	943	5	26.2 − 1	15.0	7.4 ✓
12	− 1°	950	5	26.7 − 1	34.1	7.2 ✓
13	− 2°	1294	5	26.8 − 2	0.7	8.2 ✓
14	− 1°	938	5	25.7 − 1	21.0	8.6 ✓
15	− 1°	939	5	25.8 − 1	49.5	7.5 ✓
16	− 1°	935	5	25.4 − 1	41.8	6.0 ✓
17	− 0°	988	5	25.5 − 0	49.1	8.6 ✓
18	− 0°	986	5	25.2 − 0	5.8	7.5 ✓
19	− 0°	983	5	24.6 − 0	24.6	bad ✓
20	− 0°	981	5	24.3 − 0	0.1	9.0 ✓
21	− 0°	978	5	23.4 − 0	4.9	8.6 ✓
22	− 0°	977	5	23.4 − 0	28.6	8.8 ✓
23	+ 0°	1098	5	23.1 + 0	14.7	8.1 ✓
24	− 0°	969	5	22.2 − 0	8.0	8.5 ✓
25	− 0°	968	5	22.0 − 0	9.3	9.2 ✓
26	− 0°	970	5	22.3 − 0	56.3	8.2 ✓
27	− 1°	913	5	22.4 − 1	11.7	5.5 ✓

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No.	Class	Int.	Remarks
28	A	1	
29	Bq	4	E.
30	A	1	
31	A	2	
32	F5	4	The north preceding of a group.
33	B3	5	
34	B8	4	
35	B3	8	E.
36	B3	6	
37	F2	5	
38	Bq	8	
39	B3	8	
40	K	2	
41	B8	6	E.
42	B	10+	Burned out.
43	go	8	
44	F5	6	
45	B2	10	
46	A	2	
47	Bq.	6	
48	B	10	Burned out
49	B1	8	
50	Ko	2	
51	B3	5	
52	Bq	2	
53	Bq	6	
54	A	2	

28	−1°	914	5	22.5 − 1	46.2	9.0 ✓
29	−1°	918	5	22.8 − 1	52.2	8.4 ✓
30	−1°	909	5	21.6 − 1	52.7	9.0 ✓
31	−2°	1258	5	20.9 − 2	4.1	8.5 ✓
32	−1°	905	5	20.8 − 1	47.0	8.0 ✓
33	−2°	1254	5	20.5 − 2	16.1	8.0 ✓
34	−1°	901	5	20.4 − 1	56.3	8.7 ✓
35	−2°	1250	5	19.7 − 2	29.1	7.5 ✓
36	−1°	897	5	19.8 − 1	30.4	8.0 ✓
37	−1°	896	5	19.7 − 1	12.3	8.2 ✓
38	−0°	945	5	18.1 − 0	40.8	7.3 ✓
39	−1°	889	5	18.3 − 1	37.6	7.6 ✓
40	−2°	1245	5	18.4 − 2	10.0	8.5 ✓
41	−2°	1237	5	17.4 − 2	38.2	8.0 ✓
42	−2°	1235	5	17.2 − 2	31.9	3.7 ✓
43	−1°	886	5	17.1 − 1	1.6	6.0 ✓
44	−1°	882	5	16.5 − 1	0.8	7.2 ✓
45	−0°	936	5	16.3 − 0	17.6	6.5 ✓
46	−1°	879	5	16.1 − 1	8.1	8.5 ✓
47	−1°	872	5	14.2 − 1	42.2	7.8 ✓
48	−0°	930	5	14.4 − 0	31.8	4.8 ✓
49	−0°	929	5	14.1 − 0	33.7	6.4 ✓
50	−1°	862	5	12.4 − 1	41.5	8.5 ✓
51	−1°	859	5	12.3 − 1	33.9	6.5 ✓
52	−1°	855	5	11.8 − 1	15.1	8.6 ✓
53	−0°	913	5	10.6 − 0	11.5	7.5 ✓
54	−0°	912	5	10.5 − 0	26.4	9.0 ✓

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No.	Class	Int.	Remarks.
55	a	2	
56	a	2	
57	a	4	
58	F	2	
59	F2	8	
60	Fnk	5	
61	F0	2	
62	a0	4	
63	F2	5	
64	K	2	
65	a	2	
66	B5	3	
67	K0	5	
68	Bg	3	
69	B5	7	
70	Bg	3	
71	K	1	
72	g5	2	
73	Bg	4	
74	a	3	
75	a	4	
76	F2	3	
77	F2	5	
78	Bg	3	
79	g0	3	
80	a	2	
81	B5	6	

55	−0.0°	911	5	10.3 − 0	31.8	8.9 ✓
56	−1.0°	844	5	9.3 − 1	3.7	8.81
57	−1.0°	841	5	9.1 − 1	48.9	8.7 ✓
58	−2.0°	1201	5	9.9 − 2	7.1	8.5 ✓
59	−1.0°	837	5	8.0 − 1	34.9	6.5 ✓
60	−0.0°	890	5	7.2 − 0	43.9	7.0 ✓
61	−1.0°	834	5	6.4 − 1	3.4	8.8 ✓
62	−0.0°	882	5	5.6 − 0	16.0	9.0 ✓
63	−0.0°	879	5	5.2 − 0	5.3	8.0 ✓
64	−0.0°	877	5	5.0 − 0	9.4	8.7 ✓
65	−0.0°	878	5	5.0 − 0	40.5	9.1 ✓
66	−0.0°	870	5	3.3 − 0	7.7	9.0 ✓
67	−0.0°	867	5	2.7 − 0	45.8	6.7 ✓
68	+1.0°	1059	5	26.9 + 1	15.1	8.8 ✓
69	+1.0°	1058	5	26.4 + 1	18.6	7.2 ✓
70	+0.0°	1113	5	26.0 + 0	31.0	8.6 ✓
71	+0.0°	1108	5	25.0 + 0	58.3	8.9 ✓
72	+1.0°	1056	5	26.1 + 1	35.8	9.2 ✓
73	+2.0°	998	5	25.8 + 2	16.1	9.2 ✓
74	+2.0°	999	5	25.9 + 2	33.2	9.2 ✓
75	+2.0°	995	5	25.5 + 2	23.7	9.0 ✓
76	+2.0°	994	5	25.3 + 2	33.8	9.0 ✓
77	+2.0°	992	5	24.9 + 2	32.0	8.3 ✓
78	+1.0°	1053	5	25.1 + 1	58.8	8.8 ✓
79	+2.0°	991	5	24.8 + 2	10.4	8.8 ✓
80	+1.0°	1050	5	24.4 + 1	59.0	9.3 ✓
81	+1.0°	1045	5	24.0 + 1	35.0	8.2 ✓

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No.	Class	Int.	Remark
82	Ao	2	
83	B3	9	
84	Bq	4	
85	B5	5	
86	B3	6	
87	A2	4	
88	go	2	
89	A	2	
90	B3	9	
91	Bq	4	
92	Bq	3	
93	g	2	
94	A	2	
95	Bq	8	
96	Bq	4	
97	Ao	2	
98	Ao	2	
99	A	2	
100	Bq	4	
101	go	2	
102	Bq	5	
103	K	1	
104	Bq	3	The northern of two stars.
105	g	1	
106	Bq	4	
107	B8	4	
108	B3	9	

82	+1°	1039	5	23.4+1	29.9	9.0 ✓
83	+1°	1032	5	22.4+1	39.4	7.2 ✓
84	+1°	1033	5	22.4+1	59.6	9.1 ✓
85	+2°	974	5	21.3+2	2.5	8.0 ✓
86	+1°	1026	5	21.3+1	31.4	7.9 ✓
87	+1°	1025	5	21.2+1	6.0	8.3 ✓
88	+1°	1023	5	20.8+1	14.7	8.8 ✓
89	+1°	1022	5	20.7+1	26.3	9.0 ✓
90	+1°	1021	5	20.5+1	10.6	7.2 ✓
91	+0°	1082	5	20.4+0	59.0	8.7 ✓
92	+0°	1085	5	20.7+0	39.6	9.0 ✓
93	+0°	1089	5	21.8+0	5.3	8.9 ✓
94	+0°	1088	5	21.6+0	11.5	9.1 ✓
95	-0°	960	5	21.0-0	5.8	7.0 ✓
96	-0°	964	5	21.5-0	43.6	8.9 ✓
97	-0°	963	5	21.3-0	34.9	8.9 ✓
98	-0°	961	5	21.0-0	49.3	9.2 ✓
99	-1°	904	5	20.6-1	5.2	9.2 ✓
100	-0°	958	5	20.3-0	23.0	8.8 ✓
101	+0°	1077	5	20.1+0	34.1	8.6 ✓
102	+0°	1078	5	20.1+0	58.6	8.5 ✓
103	+0°	1075	5	19.9+0	54.0	9.4 ✓
104	+1°	1017	5	19.8+1	27.8	9.1 ✓
105	+1°	1016	5	19.5+1	11.3	9.2 ✓
106	+0°	1063	5	18.9+0	40.0	8.9 ✓
107	+0°	1058	5	18.6+0	41.7	8.9 ✓
108	+0°	1056	5	18.4+0	23.0	7.0 ✓

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No.	Class	Int.	Remark
109	a	2	
110	a	2	
111	g	1	
112	a	1	
113	ma	2	
114	Bq	3	
115	a2	2	
116	Bq	4	
117	B5	2	
118	Bq	4	
119	Bq	4	
120	Bq	4	
121	a	6	
122	K	3	Partly superposed on 121
123	Bq	4	
124	K	2	
125	a	2	
126	7	2	
127	a	2	
128	a	2	
129	a	1	
130	a5	5	
131	a2	3	
132	a0	4	
133	a	2	
134	Ke	5	
135	K3	3	

109	+0°	1054	5	18.2 + 0	14.0	9.2 v
110	+0°	1076	5	20.1 + 0	7.8	9.2 v
111	+0°	1068	5	19.5 + 0	30.6	9.5 v
112	+0°	1049	5	17.6 + 0	48.8	9.1 v
113	+1°	1007	5	17.6 + 1	2.1	8.2 v
114	+0°	1046	5	17.4 + 0	37.9	8.9 v
115	+0°	1042	5	16.7 + 0	3.8	9.2 v
116	+0°	1041	5	16.4 + 0	43.4	8.7 v
117	+0°	1040	5	16.0 + 0	31.0	9.0 v
118	+0°	1033	5	15.6 + 0	17.9	8.9 v
119	−0°	933	5	15.3 − 0	0.5	8.9 v
120	+0°	1036	5	15.7 + 0	59.4	8.6 v
121	+0°	1035	5	15.6 + 0	56.0	7.9 v
122	+1°	992	5	15.6 + 1	8.9	7.8 v
123	+1°	991	5	15.5 + 1	33.0	8.7 v
124	+1°	982	5	14.0 + 1	43.3	8.9 v
125	+0°	1019	5	13.4 + 0	52.2	8.8 v
126	+0°	1018	5	13.2 + 0	26.7	9.2 v
127	+0°	1013	5	12.2 + 0	41.5	9.0 v
128	+0°	1011	5	11.9 + 0	58.1	8.9 v
129	+0°	1009	5	11.6 + 0	18.2	9.3 v
130	+0°	1003	5	10.9 + 0	26.0	8.5 v
131	+0°	997	5	8.1 + 0	1.7	9.0 v
132	−0°	892	5	8.0 − 0	6.9	8.5 v
133	+0°	992	5	7.5 + 0	16.4	9.2 v
134	+0°	988	5	6.4 + 0	23.3	7.0 v
135	+0°	978	5	4.6 + 0	25.8	8.8 v

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No.	Class	Int.	Remark.
136	Bq	8	
137	F5	8	
138	A	3	
139	A	3	
140	G5	3	
141	F5	4	E.
142	B	10+	
143	A2	4	
144	K	4	E.
145	B8	4	
146	F0	5	
147	F5	4	
148	A	2	
149	A	3	
150	B3	8	
151	A	3	
152	A	3	
153	A0	10	
154	A0	2	
155	A2	5	
156	A0	2	
157	B8	6	
158	A0	2	
159	A	7	~~Groups~~ Fig 5 E of another star are superposed.
160	F2	4	
161	B3	10	
162	B3	5	

136	+0°	974	5	4.2 + 0	20.1	7.8 ✓
137	+0°	975	5	4.3 + 0	50.8	6.5 ✓
138	+1°	923	5	3.1 + 1	10.2	9.0 ✓
139	+1°	911	5	1.1 + 1	5.4	9.0 ✓
140	+0°	958	5	1.0 + 0	44.9	8.3 ✓
141	+0°	946	4 5928	~~5~~ 0.0 + 0	48.1	8.3 ✓
142	+4°	1002	5	31.6 + 4	1.8	5.0 ✓
143	+4°	995	5	30.6 + 4	50.8	8.3 ✓
144	+5°	973	5	30.4 + 5	55.0	7.5 ✓
145	+4°	989	5	29.5 + 4	40.3	8.0 ✓
146	+4°	983	5	28.5 + 4	31.6	8.0 ✓
147	+4°	982	5	28.2 + 4	55.8	8.2 ✓
148	+4°	979	5	27.8 + 4	44.4	8.9 ✓
149	+5°	962	5	27.4 + 5	21.7	8.7 ✓
150	+5°	958	5	27.0 + 5	33.5	7.3 ✓
151	+5°	957	5	26.7 + 5	18.5	8.3 ✓
152	+4°	975	5	26.6 + 4	42.8	8.8 ✓
153	+3°	964	5	26.7 + 3	39.8	6.2 ✓
154	+3°	965	5	26.8 + 3	28.1	8.8 ✓
155	+2°	1003	5	26.5 + 2	57.6	8.6 ✓
156	+2°	1001	5	26.3 + 2	37.6	9.2 ✓
157	+3°	~~844~~ 958	5	25.6 + 3	1.8	8.1 ✓
158	+3°	952	5	24.4 + 3	1.9	9.2 ✓
159	+2°	986	5	24.1 + 2	43.8	8.1 ✓
160	+2°	983	5	23.8 + 2	57.9	9.0 ✓
161	+3°	948	5	23.6 + 3	10.9	6.5 ✓
162	+3°	944	5	23.5 + 3	~~30.8~~ 14.5	9.7 ~~0~~ ✓

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No.	Class	Int.	Remark
163	fg5	1	
164	a	2	
165	a5	2	Difficult
166	a	2	
167	a	2	
168	B3	7	
169	a	3	
170	a0	2	
171	B8	6	
172	~~fg5~~	5	
172a	~~B5~~ K0	4	
173	a0	3	
174	B9	8	
175	g0	4	A star of class a superposed.
176	B8	6	
177	B	10	Burned out
178	B9	8	
179	a5	2	
180	fg5	6	
181	a	3	
182	a	1	
183	B9	7	
184	B	10	A3 bright ?
185	B8	5	
186	B3	8	
187	a	3	
188	F8	2	
189	F2	3	

163	+3°	940	5	23.2	+3	24.8	9.0 ✓
164	+3°	939	5	22.9	+3	37.4	8.9 ✓
165	+3°	936	5	22.7	+3	9.3	9.1 ✓
166	+3°	933	5	22.5	+3	25.5	9.2 ✓
167	+3°	932	5	22.3	+3	26.9	9.0 ✓
168	+3°	928	5	22.0	+3	1.2	7.8 ✓
169	+3°	920	5	21.3	+3	30.7	8.8 ✓
170	+3°	918	5	21.2	+3	4.5	9.0 ✓
171	+3°	916	5	20.9	+3	32.4	9.0 ✓
172	+3°	910	5	20.5	+3	24.3	8.0 ✓
172a	+3°	933	5	19.7	+4	5.0	8.0 ✓
173	+3°	905	5	19.1	+3	42.3	9.0 ✓
174	+3°	903	5	19.5	+3	42.5	7.2 ✓
175	+3°	899	5	19.1	+3	56.7	7.8 ✓
176	+3°	901	5	19.3	+3	29.1	8.0 ✓
177	+2°	962	5	19.3	+2	58.0	5.3 ✓
178	+2°	961	5	18.9	+2	47.5	7.6 ✓
179	+2°	960	5	18.6	+2	48.6	9.0 ✓
180	+2°	965	5	19.7	+2	12.8	6.9 ✓
181	+1°	1015	5	19.3	+1	56.2	8.7 ✓
182	+1°	1011	5	18.7	+1	45.8	9.2 ✓
183	+1°	1009	5	17.7	+1	47.1	8.7 ✓
184	+1°	1006	5	17.2	+1	42.4	5.0 ✓
185	+1°	996	5	16.3	+1	57.1	8.2 ✓
186	+2°	947	5	17.1	+2	13.3	7.4 ✓
187	+2°	953	5	17.6	+2	36.3	9.6 ✓
188	+2°	952	5	17.6	+2	46.6	8.7 ✓
189	+3°	880	5	16.9	+3	22.8	8.5 ✓

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No.	Class	Int.	Remark
190	B	10	Burned out
191	ly	1	
192	Ao	7	
193	ly5	3	
194	Ao	5	
195	K5	2	
196	A	2	
197	B5	7	Helium lines very hazy.
198	B2	3	
199	A5	7	
200	ly5	4	
201	F5	5	
202	F5	8	
203	A5	2	
204	A	2	
205	Bq	8	
206	K	2 K	
207	A	2	
208	K0	3	
209	A2	8	Band ly maybe seen. Comp.?
210	K0	10	
211	Ao	3	
212	Ao	3	
213	Ao	6	
214	Ao	5	
215	Bq	4	
216	A	2	

190	+3°	871	5	15.2+3	24.0	5.3 ✓
191	+3°	873	5	15.4+3	3.4	8.5 ✓
192	+2°	936	5	15.2+2	39.3	7.6 ✓
193	+2°	934	5	15.0+2	27.9	8.5 ✓
194	+2°	933	5	14.9+2	50.1	8.3 ✓
195	+3°	864	5	14.5+3	25.4	8.0 ✓
196	+3°	858	5	13.8+3	39.2	9.0 ✓
197	+3°	857	5	13.7+3	51.1	7.3 ✓
198	+4°	905	5	13.4+4	19.6	8.7 ✓
199	+2°	926	5	13.3+2	46.6	7.3 ✓
200	+2°	924	5	13.2+2	23.9	7.2 ✓
201	+2°	920	5	12.3+2	22.4	8.0 ✓
202	+2°	916	5	11.6+2	26.7	6.1 ✓
203	+1°	973	5	12.3+1	26.1	9.2 ✓
204	+1°	959	5	9.5+1	40.8	9.1 ✓
205	+1°	957	5	9.2+1	47.5	6.8 ✓
206	+1°	954	5	8.7+1	35.3	8.2 ✓
207	+1°	952	5	8.4+1	9.5	8.7 ✓
208	+1°	945	5	7.7+1	24.3	8.2 ✓
209	+1°	938	5	6.0+1	47.2	6.8 ✓
210	+2°	888	5	5.7+2	40.5	4.8 ✓
211	+2°	876	5	2.5+2	45.2	8.8 ✓
212	+2°	874	5	1.8+2	55.1	8.7 ✓
213	+3°	785	5	1.3+3	2.3	7.0 ✓
214	+3°	777	5	0.5+3	33.3	8.0 ✓
215	+2°	868	5	0.0+2	16.8	8.2 ✓
216	+2°	865	4	59.8+2	15.3	9.1 ✓

Cancel with Ed

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No.	Class	Int.	
217	B8	5	E.
218	A	3	E.
219	K	3	E.
220	A	5	E.
221	A2	5	
222	K	4	
223	F	3	
224	G5	6	
225	A	2	
226	F5	3	
227	B8?	10	Burned out.
228	G0	3	
229	F2	4	
230	B8	4	
231	K0	5	
232	B8	4	
233	A0	2	
234	F0	2	
235	A0	4	E.
236	A0	4	
237	G5	3	
238	B	10+	Burned out.
239	F2	3	
240	A0	8	
241	G5	2	
242	F5	4	
243	A	2	

217	+2°	860	4	58.8 + 2	28.7	8.3	✓
218	+1°	896	4	58.4 + 1	39.5	8.5	✓
219	+3°	767	4	58.5 + 3	35.5	7.9	✓
220	+4°	840	4	59.9 + 4	20.4	8.4	✓
221	+6°	961	5	26.9 + 6	1.4	8.1	✓
222	+6°	962	5	27.0 + 6	27.8	8.5	✓
223	+5°	954	5	25.4 + 5	9.9	8.4	✓
224	+5°	948	5	24.0 + 5	11.5	8.0	✓
225	+5°	951	5	24.4 + 5	56.0	9.0	✓
226	+5°	944	5	23.5 + 5	32.7	9.2	✓
227	+5°	939	5	23.0 + 5	50.0	5.5	✓
228	+4°	958	5	23.9 + 4	25.2	8.5	✓
229	+4°	957	5	23.8 + 4	11.9	8.5	✓
230	+4°	953	5	23.3 + 4	33.4	8.5	✓
231	+4°	949	5	22.7 + 4	5.1	7.4	✓
232	+5°	934	5	21.9 + 5	6.1	8.4	✓
233	+4°	939	5	20.9 + 4	49.7	8.5	✓
234	+4°	938	5	20.6 + 4	20.0	8.8	✓
235	+5°	932	5	21.1 + 5	52.8	8.5	✓
236	+5°	926	5	19.8 + 5	28.1	8.7	✓
237	+5°	916	5	18.1 + 5	49.1	8.2	✓
238	+6°	919	5	17.4 + 6	12.7	2.0	✓
239	+5°	904	5	16.8 + 5	41.2	8.3	✓
240	+5°	905	5	15.8 + 5	10.7	7.0	✓
241	+4°	914	5	16.9 + 4	30.7	8.6	✓
242	+3°	898	5	18.7 + 3	42.6	8.0	✓
243	+3°	891	5	18.3 + 3	41.1	9.0	✓

+4° 819 Superposed

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No.	Class	Int.	Remark
244	K_5	2	
245	F_5	7	
246	K_5	1	
247	K_5	2	
248	K	1	
249	G	2	
250	A	4	
251	K_5	5	
252	F_0	2	
253	F_5	4	
254	K	2	
255	F_0	4	
256	A	3	
257	F_5	3	
258	A_0	6	
259	B_8	8	
260	K_0	7	
261	A	3	
262	K_0	3	
263	F_0	2	
264	K_0	6	
265	B_8	3	
266	A	2	
267	K_0	3	
268	B_8	4	
269	A_0	5	
270	F_2	2	

244	+4°	922	5	17.6 + 4	3.7	8.5 ✓
245	+5°	899	5	14.5 + 5	15.1	7.5 ✓
246	+5°	897	5	14.0 + 5	43.5	8.5 ✓
247	+5°	891	5	12.8 + 5	30.7	8.5 ✓
248	+5°	884	5	11.9 + 5	1.3	8.6 ✓
249	+4°	895	5	10.8 + 4	52.2	8.5 ✓
250	+5°	877	5	10.5 + 5	9.4	8.4 ✓
251	+5°	875	5	9.8 + 5	19.2	7.8 ✓
252	+4°	891	5	10.0 + 4	31.5	8.3 ✓
253	+3°	841	5	10.4 + 3	32.0	8.9 ✓
254	+2°	918	5	11.8 + 2	59.0	8.8 ✓
255	+3°	836	5	9.4 + 3	18.8	8.6 ✓
256	+3°	832	5	8.9 + 3	2.9	8.7 ✓
257	+3°	827	5	8.2 + 3	35.1	8.5 ✓
258	+4°	882	5	7.6 + 4	5.5	8.0 ✓
259	+4°	879	5	7.4 + 4	43.5	8.9 ✓
260	+4°	877	5	7.0 + 4	59.1	6.0 ✓
261	+4°	868	5	6.0 + 4	2.2	8.4 ✓
262	+3°	812	5	5.8 + 3	30.5	8.5 ✓
263	+4°	861	5	4.5 + 4	3.9	8.6 ✓
264	+4°	858	5	4.1 + 4	13.6	7.8 ✓
265	+4°	864	5	5.0 + 4	36.4	9.0 ✓
266	+4°	842	5	5.1 + 4	5.5	9.0 ✓
267	+5°	834	5	4.1 + 5	13.6	8.5 ✓
268	+5°	830	5	3.8 + 5	31.8	8.5 ✓
269	+5°	827	5	2.8 + 5	7.8	8.6 ✓
270	+5°	821	5	2.0 + 5	35.6	8.7 ✓

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No.	Class	Int.	Remark
271	F	2	
272	A5	3	Trans poor
273	A0	6	
274	B9	7	
275	A	3	
276	F2	4	
277	K	3	
278	G5	2	
279	G	5	The northern of two stars. C.

Time: ochra. 50 min.

271	+5°	820	5	1.9 + 5	42.4	8.7 r
272	+6°	945	5	23.0 + 6	40.0	8.7
273	+7°	892 (6)	5	~~17.6~~ (19.2) + 7	~~6.3~~ (12.1)	~~8.4~~ (7.9) ✓
274	+6°	923	5	18.8 + 6	44.4	7.1 v
275	+6°	912	5	14.5 + 6	52.8	8.4 v
276	+6°	910	5	14.3 + 6	56.8	7.9 v
277	+6°	908	5	14.2 + 6	52.2	8.1 v
278	+6°	891	5	10.7 + 6	35.7	8.0 ✓
279	+7°	855	5	9.9 + 7	12.0	8.0 ✓

Ident by A.M.C. March 11, 1912

Checked by J.C.M March 29, 1912

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Feb. 26, 1912

Time: 22 hrs 45 min.

I 37 555

No.	Class	Int.	Remarks
1	A	4	E.
2	A	5	E.
3	fg5	6	
4	A	3	
5	F5	7	
6	K0	7	
7	g5	3	
8	g0	3	
9	g	2	
10	K0	6	
11	K0	2	
12	A2	2	
13	A0	6	
14	F0	8	
15	A2	10	
16	A0	8	
17	A3	4	
18	F0	3	
19	A	2	
20	A2	2	
21	g5	5	
22	A3	7	
23	F2	2	
24	A	5	Partly superposed on 25
25	A	3	
26	A0	8	
27	ma	5	

1	+70°	281	3	59.0	+70	50.1	7.0 ✓
2	+70°	276	3	53.4	+70	56.6	7.5 ✓
3	+71°	239	3	57.7	+71	44.0	6.3 ✓
4	+72°	208	3	58.8	+72	39.3	8.5 ✓
5	+73°	212	3	52.6	+73	10.2	6.5 ✓
6	+73°	210	3	50.1	+73	34.4	6.4 ✓
7	+72°	204	3	47.0	+72	24.2	8.0 ✓
8	+72°	202	3	44.7	+72	53.8	8.3 ✓
9	+73°	206	3	43.2	+73	7.3	9.0 ✓
10	+72°	199	3	42.0	+72	17.4	7.0 ✓
11	+72°	196	3	39.6	+72	10.9	8.0 ✓
12	+72°	194	3	38.3	+72	20.3	9.0 ✓
13	+72°	192	3	36.6	+72	45.3	8.0 ✓
14	+71°	222	3	41.0	+71	22.0	6.5 ✓
15	+70°	259	3	35.1	+70	52.1	4.3 ✓
16	+70°	257	3	34.2	+70	25.3	5.7 ✓
17	+70°	262	3	36.8	+70	3.5	7.4 ✓
18	+69°	225	3	32.9	+69	45.0	8.5 ✓
19	+70°	254	3	32.9	+70	5.2	8.7 ✓
20	+70°	255	3	33.2	+70	24.3	8.5 ✓
21	+71°	216	3	31.0	+71	8.8	7.0 ✓
22	+69°	222	3	28.2	+69	22.6	7.2 ✓
23	+71°	213	3	25.6	+71	9.8	8.4 ✓
24	+71°	204	3	16.5	+71	20.9	8.4 ✓
25	+71°	205	3	16.6	+71	40.5	8.6 ✓
26	+71°	202	3	16.4	+71	39.8	8.7 ✓
27	+71°	201	3	15.4	+71	21.1	6.5 ✓

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No.	Class	Mt.	Remarks
28	A3	3	
29	F0	7	
30	B8	6	
31	A	4	Another star superposed at earth?
32	F0	4	
33	A0	7	E.
34	F5	5	E.
35	A	5	E.
36	A0	4	E.
37	A0	5	
38	A2	2	
39	K	2	
40	F8	5	
41	A	3	
42	K	3	
43	A	2	
44	A5	3	
45	A0	3	
46	A2	3	
47	F5	3	E.
48	A0	5	
49	A0	3	
50	B9	5	
51	G5	2	
52	G0	4	
53	G5	5	
54	A3?	2	Omit unless confirmed

28	+72°	173	3	13.8	+72	3.5	8.0	✓
29	+71°	198	3	11.7	+71	40.8	7.2	✓
30	+71°	197	3	10.7	+71	9.6	7.6	✓
31	+70°	242	3	9.0	+70	52.9	9.0	✓
32	+70°	241	3	8.5	+70	45.1	7.5	✓
33	+69°	205	3	6.3	+69	11.7	6.5	✓
34	+68°	249	3	15.0	+68	45.6	7.0	✓
35	+68°	225	3	15.4	+68	57.4	7.3	
36	+68°	230	3	3.8	+68	54.4	8.0	✓
37	+69°	203	3	2.8	+69	26.2	7.7	✓
38	+69°	233	3	1.2	+68	0.1	8.6	✓
39	+70°	231	2	58.8	+70	40.2	7.9	✓
40	+70°	230	2	58.3	+70	59.8	7.2	✓
41	+70°	225	2	52.6	+70	56.9	8.3	✓
42	+70°	220	2	52.0	+70	26.6	8.2	✓
43	+70°	219	2	50.X	+70	4.7	8.1	✓
44	+69°	196	2	53.9	+69	39.7	7.8	✓
45	+69	199	2	55.8	+69	12.6	8.0	✓
46	+68°	212	2	47.0	+68	53.9	7.9	✓
47	+68°	209	2	45.0	+68	36.4	7.8	✓
48	+69°	179	2	35.9	+69	0.8	6.5	✓
49	+71°	180	2	48.2	+71	26.1	8.3	✓
50	+71°	179	2	44.0	+71	33.5	7.9	✓
51	+72°	153	2	44.0	+72	4.6	7.0	✓
52	+72°	152	2	41.8	+72	18.2	8.2	✓
53	+72°	149	2	40.9	+72	47.7	6.5	✓
54	+72°	147	2	40.0	+72	25.6	8.9	✓

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No.	Class	Int.	Remark
55	G5	5	
56	B8	4	Pair faint
57	G5	3	
58	G0	2	
59	G0	2	
60	A0	8	
61	K0	4	
62	F5	6	
63	K0	4	
64	F2	3	
65	A0	2	
66	F	2	
67	A2	4	
68	G5	3	
69	A	2	
70	A	3	
71	G5	1	
72	K0	5	
73	Ma	3	
74	F8	5	
75	F0	4	
76	A0	9	
77	A0	5	
78	Bq	7	
79	G5	4	
80	F5	5	
81	F2	6	

55	+72°	146	2	38.4	+72	40.4	7.5	✓
56	+72°	145	2	36.8	+72	18.2	7.5	✓
57	+71°	167	2	34.7	+71	45.4	7.5	✓
58	+72°	187	3	30.1	+72	33.5	8.0	✓
59	+72°	184	3	27.1	+72	56.2	8.2	✓
60	+72°	178	3	19.4	+72	50.5	6.7	✓
61	+72°	172	3	10.4	+72	40.5	7.1	✓
62	+73°	180	3	8.1	+73	38.2	6.9	✓
63	+73°	179	3	5.5	+73	9.5	7.4	✓
64	+72°	166	3	3.2	+72	15.1	8.0	✓
65	+72°	164	3	2.7	+72	21.2	8.7	✓
66	+72°	162	3	0.8	+72	15.4	9.2	✓
67	+71°	187	2	54.2	+71	58.7	8.0	✓
68	+72°	157	2	52.6	+72	25.2	7.7	✓
69	+72°	156	2	52.3	+72	15.3	8.4	✓
70	+72°	154	2	48.2	+72	1.5	7.8	✓
71	+73°	173	3	0.6	+73	28.5	8.9	✓
72	+73°	172	2	59.7	+73	18.6	6.8	✓
73	+73°	171	2	58.7	+73	40.5	7.0	✓
74	+73°	170	2	57.8	+73	44.6	7.1	✓
75	+73°	169	2	57.1	+73	38.4	8.4	✓
76	+73°	168	2	56.3	+73	49.6	5.2	✓
77	+73°	165	2	50.2	+73	21.6	7.4	✓
78	+74°	181	2	48.6	+74	34.2	7.2	✓
79	+74°	128	2	47.6	+74	19.0	8.1	✓
80	+74°	123	2	40.7	+74	34.7	7.9	✓
81	+75°	113	2	40.8	+75	2.9	8.6	✓

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No.	Class	Int.	Remark
82	A2	6	
83	A3	7	
84	g	2	
85	A3	5	Fours poor.
86	g	4	
87	A2	7	
88	K	3	
89	A5	3	Fours very poor.
90	B9	8	E.
91	g	5	Fours poor
92	g	3	" "
93	K	2	
94	A3	4	
95	g5	6	
96	F8	6	
97	A2	4	
98	K0	6	
99	g5	4	
100	g5	7	
101	g5	8	
102	A0	2	
103	g5	4	
104	F8	3	
105	A	2	
106	A0	6	
107	A0	8	
108	F5	2	

82	+74°	120	2	37.6	+74	7.7	7.3 ✓	
83	+74°	117	2	31.4	+74	46.3	7.2 ✓	
84	+74°	116	2	30.2	+74	23.2	8.5 ✓	
85	+74°	111	2	23.2	+74	54.1	7.5 ✓	
86	+74°	112	2	23.8 (3)	+74	4 54.3	7.5 ✓	
87	+74°	105	4 2	1.7 20.4	+74	15.3 34.9	10 8.3 ✓	
88	+74°	104	4 2	1.1 23.2	+74	15.7 54.1	8.2 7.5 ✓	
89	+74°	196	4	2.1	+74	50.9	8.5 ✓	
90	+75°	173	4	2.4	+75	44.7	6.8 ✓	
91	+75°	166 165	3	56.3	+75	52.7 58.0	8.7 8.5 ✓	
92	+75°	167	3	56.7	+75	25.6	8.5 ✓	
93	+73°	215	3	54.7	+73	58.5	8.3 ✓	
94	+74°	188	3	53.4	+74	15.7	8.4 ✓	
95	+74°	186	3	49.9	+74	13.9	6.4 ✓	
96	+74°	184	3	49.5	+74	46.8	7.8 ✓	
97	+74°	181	3	46.6	+74	50.8	8.9 ✓	
98	+73°	204	3	39.8	+73	38.4	6.5 ✓	
99	+74°	174	3	36.8	+74	13.5	7.2 ✓	
100	+74°	167 168	3	28.4 (4)	+74	4.2 52.9	6.8 8.8 ✓	
101	+75°	143	3	22.1	+75	14.4	6.5 ✓	
102	+73°	190	3	22.6	+73	58.3	8.8 ✓	
103	+74°	161	3	21.9	+74	16.2	7.5 ✓	
104	+74°	158	3	20.3	+74	8.0	8.2 ✓	
105	+74°	154	3	16.2	+74	1.8	8.9 ✓	
106	+74°	158	3 2	13.4 11.9	+74	44.3 25.1	7.9 8.4 ✓	
107	+74°	144	3 2	3.6	+74	40.6	7.4 ✓	
108	+74°	142	3 2	57.4	+74	15.0	8.5 ✓	

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No.	Class	Int.	Remarks.
109	g	2	
110	F5	3	
111	A0	7	
112	Ma	2	
113	A0	3	
114	A	1	
115	K	2	
116	G0	7	
117	G5	4	
118	F	2	Focus poor.
119	Bq	5	
120	g	2	
121	Ma	5	
122	F2	5	
123	g	3	
124	K	2	
125	A	2	
126	K0	3	
127	g5	3	
128	g	2	
129	F8	2	
130	G0	2	
131	K	2	
132	A0	5	
133	A	2	
134	A	4	
135	G5	2	

109	+74°	140	2	56.8	+74	22.6	8.0 ✓
110	+74°	138	2	56.3	+74	30.5	8.2 ✓
111	+75°	127	2	53.5	+75	30.4	8.3 ✓
112	+75°	124	2	51.3	+75	13.9	7.4 ✓
113	+75°	122	2	50.1	+75	25.0	8.8 ✓
114	+74°	133	2	50.0	+74	55.0	9.0 ✓
115	+75°	119	2	46.6	+75	13.1	8.5 ✓
116	+76°	101	2	42.2	+76	29.2	6.8 ✓
117	+75°	109	2	39.4	+75	55.5	7.5 ✓
118	+75°	110	2	39.6	+75	38.9	8.5 ✓
119	+75°	103	2	25.8	+75	22.6	8.0 ✓
120	+75°	102	2	23.4	+75	53.8	8.7 ✓
121	+76°	81	2	19.1	+76	4.4	7.0 ✓
122	+75°	160	3	47.4	+75	59.6	7.5 ✓
123	+75°	146	3	45.9	+75	42.7	8.0 ✓
124	+75°	154	3	42.7	+75	45.1	8.2 ✓
125	+76°	141	3	37.8	+76	16.3	9.0 ✓
126	+76°	137	3	34.0	+76	9.8	8.2 ✓
127	+75°	147	3	31.4	+75	18.7	8.2 ✓
128	+74°	167	3	28.1	+74	52.9	8.8 ✓
129	+75°	144	3	27.1	+75	14.6	8.6 ✓
130	+75°	141	3	19.5	+75	13.0	8.4 ✓
131	+74°	162	3	12.4	+74	47.9	7.9 ✓
132	+76°	128	3	24.0	+76	41.2	7.5 ✓
133	+76°	126	3	15.1	+76	19.6	8.7 ✓
134	+76°	125	3	14.7	+76	6.3	8.6 ✓
135	+75°	137	3	12.0	+75	43.7	8.8 ✓

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No.	Class	Int.	Remark
136	A0	5	
137	A	2	
138	F5	5	
139	G	3	
140	F0	8	
141	F0	6	
142	K0	3	
143	K0	4	
144	G5	2	
145	G	2	
146	F2	4	
147	K	6	E.
148	A	4	E.
149	G5	5	E.
150	K0	4	
151	B9	5	
152	A2	3	
153	K0	5	
154	G	3	
155	B8	4	
156	B8	6	
157	A2	4	
158	K0	4	
159	F5	2	
160	F2	3	
161	G5	5	

Time: 29 hr. 16 min.

162	G5	2						

136	+75°	131	3	4.5	+75	29.2	8.4	✓
137	+75°	130	3	3.9	+75	50.2	9.0	✓
138	+76°	120	3	3.5	+76	30.7	8.2	✓
139	+76°	119	3	1.8	+76	27.2	8.3	✓
140	+77°	115	3 R	2.2	+77	10.9	6.2	✓
141	+78°	109	2	58.3	+78	19.0	7.0	✓
142	+77°	111	2	58.2	+77	57.0	7.5	✓
143	+77°	109	2	55.2	+77	37.9	7.0	✓
144	+77°	108	2	52.8	+77	49.7	8.0	✓
145	+77°	105	2	49.6	+77	58.9	8.5	✓
146	+77°	104	2	46.5	+77	31.4	8.1	✓
147	+78°	103	2	47.1	+78	50.7	5.6	✓
148	+78°	151	4	0.2	+78	38.3	8.2	✓
149	+77°	150	3	59.3	+77	41.8	7.0	✓
150	+78°	146	3	50.6	+78	38.3	7.2	✓
151	+78°	142	3 R	47.8	+78	32.3	8.0	✓
152	+78°	143	3	48.6	+78	1.5	8.5	✓
153	+77°	138	3	43.0	+77	46.4	7.0	✓
154	+76°	142	3	38.1	+76	58.5	8.2	✓
155	+77°	134	3	30.7	+77	50.8	8.0	✓
156	+77°	133	3	29.0	+77	39.1	7.2	✓
157	+77°	126	3	18.5	+77	55.9	8.5	✓
158	+77°	123	3	12.8	+77	30.1	7.1	✓
159	+76°	123	3	12.0	+76	45.5	9.0	✓
160	+76°	121	3	11.1	+76	38.1	8.0	✓
161	+77°	119	3	8.9	+77	57.9	7.5	✓

Identified by J. C. M. April 8, 1912.

Checked by A. M. L. April 15, 1912.

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Feb. 27, 1912

Time: 21 hrs. 44 min.

I = 37601

No.	Class	Int.	Remarks
1	K	2	E.
2	Bq	5	
3	Bq	8	E.
4	A3	4	
5	G	2	Another star superposed.
6	F2	5	
7	K0	3	
8	A2	2	
9	Ma	2	
10	F8	3	
11	F8	3	
12	K0	4	
13	F5	3	
14	A	1	Partly superposed on 15
15	A	3	
16	G5	6	
17	G	1	
18	A0	3	
19	Bq	10+	Burned out
20	G5	3	
21	F5	3	
22	G5	3	
23	Bq	8	
24	A3	3	E.
25	B3	10	E.
26	G5	3	E.
27	A	3	E.

No	Dm	RA	Dec	Mg	
1	+11 5°7.6	4h 0m 27.8s	+11 5°7.5	8.5	✓
2	+14 5°7.1	3h 59m 10.8s	+14 5°2.6	7.6	✓
3	+13 6'.8	4h 0m 56.6s	+13 0'.8	6.3	✓
4	+13 6'.6	3h 59m 12.9s	+13 8'.4	8.0	✓
5	+13 6'.8 (2)	3h 58m 25.2s (27.4)	+13 57'.9 (58.3)	8.6 (7.1)	+13° 643 Superposed ✓
6	+14 (4) 6'.2 (50)	3h 58m 14.3s (25.2)	+14 (4) 0'.5 (57.9)	8.0 (8.6)	✓
7	+13 6'.0	3h 57m 23.2s	+13 53'.8	7.7	✓
8	+12 5'.8	3h 57m 5.8s	+12 54'.4	7.7	✓
9	+12 5'.7	3h 56m 14.6s	+12 6'.0	7.7	✓
10	+14 (4) 6'.3 (43)	3h 54m 58.6s (58.8)	+14 (4) 4'.3 (3'.8)	8.0 (8.8)	✓
11	+13 (4) 6'.8 (9)	3h 53m 40.3s	+13 26'.2	7.8	✓
12	+13 6'.7	3h 52m 30.2s	+13 28'.9	7.0	✓
13	+13 6'.5	3h 52m 9.6s	+13 53'.8	7.8	✓
14	+13 6'.4	3h 51m 22.1s	+13 18'.7	9.0	✓
15	+13 6'.2	3h 51m 20.2s	+13 18'.7	8.5	✓
16	+13 6'.1	3h 51m 13.3s	+13 35'.5	6.8	✓
17	+12 5'.6	3h 50m 31.8s	+12 40'.8	8.6	✓
18	+12 5'.5	3h 50m 4.0s	+12 20'.3	8.3	✓
19	+12 5'.9	3h 52m 40.4s	+12 4'.9	var	✓
20	+13 6'.6	3h 46m 29.2s	+13 19'.7	7.5	✓
21	+13 6'.4	3h 45m 40.2s	+13 4'.7	8.0	✓
22	+13 6'.3	3h 44m 48.7s	+13 56'.5	7.5	✓
23	+12 5'.6	3h 43m 13.7s	+12 56'.5	7.0	✓
24	+11 5'.6	3h 40m 53.0s	+11 15'.4	8.6	✓
25	+10 4'.6	3h 40m 19.5s	+10 41'.4	5.2	✓
26	+10 4'.7 (9)	3h 41m 30.2s	+10 41'.7	5.2	✓
27	+10 4'.7	3h 43m 42.5s	+10 24'.8	8.3	✓

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No.	Class	Int.	Remarks
28	Ma	3	E.
29	A	3	E.
30	Ao	7	
31	F8	2	
32	K	2	
33	G	3	
34	G5	3	
35	G	3	
36	G5	6	
37	G5	4	
38	G	2	
39	K3	9	
40	G	2	
41	Ao	6	E.
42	Ao	8	E.
43	A	8	E.
44	F0	9	
45	F5	1	
46	G0	4	
47	G	3	
48	G5	2	
49	G0	2	
50	G5	4	
51	G0	3	
52	G	2	
53	G	2	
54	F0	2	

No	Dm	RA	Dec	Mg	
28	+10 5·13	3 50 40.8	+10 35.8	7.1	✓
29	+11 5·17	3 38 52.0	+11 13.0	8.5	✓
30	+13 5·14	3 38 22.7	+13 3.6	7.0	✓
31	+13 5·18	3 39 33.2	+13 37.4	7.0	✓
32	+13 5·19	3 39 38.6	+13 54.5	8.5	✓
33	+14 6.04	3 35 53.9	+14 9.0	8.5	✓
34	+13 5·81	3 32 30.9	+13 5.6	8.0	✓
35	+12 5·03	3 33 28.0	+12 8.8	8.0	✓
36	+13 5·79	3 31 13.9	+13 25.5	7.0	✓
37	+14 5·88	3 30 19.6	+14 40.4	8.0	✓
38	+14 5·87	3 30 7.7	+14 41.1	8.8	✓
39	+14 5·86	3 29 37.8	+14 56.4	6.5	✓
40	+14 5·85	3 29 15.1	+14 37.0	8.3	✓
41	+15 5·94	4 2 56.8	+15 13.7	8.0	✓
42	+15 5·92	4 2 41.5	+15 34.6	7.5	✓
43	+16 5·67	4 2 47.8	+16 15.2	6.5	✓
44	+14 6·57	3 59 30.1	+14 45.8	6.5	✓
45	+14 6·56	3 59 21.2	+14 35.5	8.5	✓
46	+15 5·82	3 58 2.0	+15 17.8	7.8	✓
47	+15 5·80	3 57 43.3	+15 6.1	8.1	✓
48	+14 6·46	3 56 4.2	+14 36.6	8.0	✓
49	+14 6·42	3 54 28.4	+14 39.4	8.1	✓
50	+15 5·65	3 52 33.5	+15 3.9	7.7	✓
51	+14 6·33	3 50 25.5	+14 40.6	8.1	✓
52	+14 6·30	3 49 32.5	+14 26.5	8.4	✓
53	+15 5·07	3 49 47.8	+15 12.0	8.4	✓
54	+15 5·55	3 48 42.7	+15 6.1	8.4	✓

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I 37601

No.	Class	Int.	Remark
55	fg	2	
56	fg5	2	
57	fg	2	
58	A	2	
59	F5	3	
60	F5	6	
61	A0	3	
62	F8	2	
63	F2	5	
64	K	1	
65	F0	4	
66	A0	5	
67	F8	2	
68	F0	2	
69	B9	5	
70	A0	1	
71	A0	3	
72	fg5	7	
73	F	7	8.
74	A0	4	
75	K1	7	
76	B9	4	
77	fg0	3	
78	fg5	6	
79	fg5	2	
80	F0	9	
81	B9	9	

No	Dm	RA	Dec	Mg	
55	+14 625	3 45 53.8	+14 42.9	8.8	✓
56	+14 624	3 45 39.5	+14 45.1	8.3	✓
57	+15 543	3 45 4.4	+15 8.5	8.6	✓
58	+15 541	3 44 28.8	+15 31.7	8.8	✓
59	+15 537	3 42 32.9	+15 33.1	8.5	✓
60	+16 514	3 40 44.1	+16 4.9	7.6	✓
61	+15 534	3 40 30.6	+15 3.2	8.2	✓
62	+14 613	3 40 50.2	+14 31.7	8.3	✓
63	+16 513	3 39 45.3	+16 30.5	8.2	✓
64	+16 512	3 39 22.0	+16 15.6	8.4	✓
65	+15 531	3 38 8.0	+15 54.5	8.0	✓
66	+15 529	3 37 20.4	+15 48.3	8.0	✓
67	+15 526	3 36 3.8	+15 58.1	8.8	✓
68	+15 526	3 35 40.8	+15 34.1	8.5	✓
69	+15 524	3 35 10.1	+15 56.4	7.9	✓
70	+15 522	3 34 15.2	+15 21.0	9.1	✓
71	+15 516	3 31 47.6	+15 53.0	8.3	✓
72	+15 484	3 31 15.2	+15 4.1	6.0	✓
73	+18 594	4 2 48.8	+18 N.3	6.5	✓
74	+16 561	3 0 31.4	+16 53.6	8.0	✓
75	+16 560	3 59 41.7	+16 57.3	5.6	✓
76	+16 559	3 59 39.5	+16 8.3	7.5	✓
77	+17 682	3 58 25.6	+17 15.1	8.5	✓
78	+17 676	3 56 22.6	+17 6.8	6.5	✓
79	+18 574	3 54 49.0	+18 15.2	9.0	✓
80	+17 666	3 52 27.7	+17 47.2	6.0	✓
81	+16 544	3 52 20.2	+16 52.2	6.5	✓

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I 37.601

No.	Class	Int.	Remark
82	K	1	
83	F8	3	
84	g5	5	
85	F5	5	
86	Bq	5	
87	g0	7	
88	K	1	
89	F0	10	
90	g0	5	
91	K	1	
92	F	2	
93	B8	2	
94	g0	7	
95	G5	8	
96	Bq	10	
97	A	8	
98	A	4	
99	A	8	E.
100	F	3	
101	g5	2	
102	A	10	E.
103	F5	3	
104	K	1	
105	F0	2	
106	K	1	
107	F	2	
108	A0	5	

No	Dm	RA	Dec	Mg	
82	+16 5°40'	3h 50m 38.7s	+16° 27.4'	7.0	✓
83	+16 5°38	3 50 28.2	+16 42.2	8.7	✓
84	+17 6°6	3 47 9.7	+17 11.2	8.0	✓
85	+18 5°7	3 46 45.3	+18 9.3	8.0	✓
86	+16 5°28	3 46 20.6	+16 54.3	8.3	✓
87	+16 5°27	3 46 12.5	+16 11.3	7.0	✓
88	+16 5°26	3 45 31.4	+16 27.3	8.4	✓
89	+16 5°23	3 44 53.0	+16 54.1	6.1	✓
90	+17 6°8	3 42 6.8	+17 2.0	8.1	✓
91	+17 6°2	3 41 3.6	+17 21.6	8.8	✓
92	+17 6°25	3 38 37.0	+17 49.5	8.8	✓
93	+18 5°37	3 37 42.8	+18 6.3	8.4	✓
94	+16 4°97	3 34 24.9	+16 47.2	7.5	✓
95	+19 5°82	3 35 24.5	+19 12.5	6.0	✓
96	+18 5°78	3 33 57.8	+19 19.7	5.5	✓
97	+18 5°21	3 33 6.1	+18 54.8	7.8	✓
98	+18 5°17	3 29 50.8	+18 5°2.3	7.3	✓
99	+20 6°2	3 30 30.3	+20 26.0	6.0	✓
100	+19 5°9	3 04 6.3	+19 40.8	8.0	✓
101	+20 6°8	3 35 11.9	+20 10.3	8.2	✓
102	+20 6°1	3 36 3.4	+20 28.0	6.2	✓
103	+18 5°62	3 48 46.8	+18 25.0	8.5	✓
104	+18 5°60	3 47 47.1	+18 49.1	8.7	✓
105	+17 6°4	3 46 55.4	+17 55.4	8.8	✓
106	+18 5°53	3 45 59.3	+18 11.1	8.5	✓
107	+17 6°45	3 44 41.6	+17 04.7	9.0	✓
108	+18 5°50	3 44 3.2	+18 9.2	7.9	✓

Wade

Wade

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Feb. 27. 1912

I37601

No.	Class	Int.	Remarks
109	A0	5	
110	K	1	
111	F0	2	
112	K	1	
113	F	2	
114	A	2	
115	K	3	E.
116	F5	2	E.
117	A5	3	E.
118	A0	4	E.

Time: 22 hrs. 13 min.

119	2	F5	
120	2	K5	
121	3	A2	
122	1	A0	

No	Dm	RA	Dec	mg	
109	+18 549	3 43 57.1	+18 29.6	7.9	✓
110	+19 606	3 44 13.0	+19 10.8	8.5	✓
111	+18 546	3 42 2.2	+18 48.5	8.1	✓
112	+19 600	3 41 32.2	+19 7.7	8.2	✓
113	+19 586	3 36 30.7	+19 22.6	8.3	✓
114	+19 625	3 48 27.8	+19 38.9	8.0	✓
115	+20 664	3 47 37.2	+20 21.8	8.2	✓
116	+20 638	3 40 34.1	+20 52.6	8.0	✓
117	+20 637	3 39 43.9	+20 54.5	8.2	✓
118	+20 624	3 37 5.2	+20 47.3	8.0	✓

Identified by O.R.A. Mar. 7, 1912
Checked by A.M.C. Mar. 15 1912

✓ 119	+17 601	3	31.2	+17	8	8.3	13 on	I37373
✓ 120	+18 507	3	27.0	+18	26	7.0	7 "	"
✓ 121	+19° 647	3	53.5	+19	31	8.5	30 on	I37417
✓ 122	+19° 652	3	55.7	+19	35	8.5	31 "	"

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Time: 22 hrs 22 min. I 37589

No.	Class	Int.	Remarks
1	F5	5	E.
2	A	3	E. Film defective
3	B8	6	
4	K	2	
5	A5	10	
6	G	2	
7	F8	5	
8	K	2	
9	F	2	
10	G5	1	
11	B8	10	
12	G	2	Partly superposed on 13
13	G	2	" " on 12
14	~~K~~	4	" " on 15 Compos. of Br = K5 Fk. = G
15	A	3	
16	F8	5	
17	F8	6	
18	A0	10	Line 4128 - 31 strong.
19	F5	1	
20	B9	9	
21	F5	3	
22	F0	8	
23	A3	10	Line 4077 Strong
24	G0	3	
25	F5	5	
26	F5	3	
27	F	1	

1	+21°	657	4	23.5	+21	19.2	8.0
2	+20°	767	4	21.6	+20	39.8	8.7
3	+20°	761	4	20.2	+20	20.9	8.3
4	+21°	652	4	20.4	+21	34.5	8.8
5	+21°	647	4	19.4	+21	17.1	6.5
6	+20°	756	4	18.6	+20	40.0	8.6
7	+21°	644	4	17.7	+21	8.3	7.5
8	+20°	754	4	17.2	+20	48.8	8.6
9	+19°	716	4	16.5	+19	42.6	9.0
10	+19°	714	4	15.9	+19	38.4	9. N
11	+20°	751	4	15.0	+20	37.9	6.2
12	+20°	748	4	14.8	+20	50.8	9.0
13	+21°	635	4	14.8	+21	1.9	8.9
14	+20°	744	4	13.9	+20	28.3	6.5
15							
16	+20°	741	4	13.1	+20	50.3	7.2
17	+20°	740	4	13.0	+20	42.2	7.0
18	+21°	623	4	11.1	+21	26.8	5.8
19	+20°	735	4	11.0	+20	41.7	9.0
20	+20°	733	4	10.9	+20	47.7	6.2
21	+20°	731	4	10.5	+20	57.0	8.8
22	+21°	618	4	9.8	+21	13.3	6.0
23	+20°	724	4	8.8	+20	13.6	5.7
24	+20°	721	4	7.2	+20	26.9	8.1
25	+22°	670	4	9.6	+22	26.6	7.5
26	+21°	617	4	9.2	+21	59.2	8.2
27	+21°	616	4	9.0	+21	54.8	9.0

Only one star here on Polaris plate I 24373

Checked by A.M.C. April 15, 1912

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Feb. 27, 1912

I 37.589

No.	Class	Dist.	Remark
28	A	3	
29	A	2	H/B bright ? Confirm.
30	F2	6	
31	A	3	
32	B8	8	
33	F	2	Difficult
34	K2	3	
35	G5	5	
36	G5	5	
37	A3	6	
38	K2	4	
39	A3	7	
40	F5	2	
41	K	1	
42	G0	8	
43	G5	9	
44	A0	4	
45	F	2	Difficult
46	G	2	"
47	K	2	
48	F8	2	
49	F8	3	
50	Comp.	7	Bri = F5 Fl. = A
51	F	2	
52	G	2	
53	A0	6	
54	K	9	E.

28	+22°	663	4	7.4	+22	35.5	8.9	✓
29	+21°	610	4	6.6	+21	43.2	8.8	✓
30	+22°	657	4	5.9	+22	5.0	7.0	✓
31	+22°	654	4	5.4	+22	20.4	8.3	✓
32	+22°	649	4	4.3	+22	2.7	6.0	✓
33	+21°	606	4	3.6	+21	9.7	8.6	✓
34	+23°	645	4	4.1	+23	8.4	8.0	✓
35	+23°	642	4	3.8	+23	12.7	7.5	✓
36	+23°	632	4	1.6	+23	34.9	7.5	✓
37	+23°	627	4	1.0	+23	41.4	7.5	✓
38	+23°	624	4	0.2	+23	28.9	7.2	✓
39	+22°	637	4	0.3	+22	43.8	7.0	✓
40	+21°	593	3	59.7	+21	37.3	8.8	✓
41	+21°	591	3	58.0	+21	33.1	8.2	✓
42	+21°	587	3	56.8	+21	35.5	6.5	✓
43	+21°	585	3	56.1	+21	40.5	5.0	✓
44	+20°	692	3	55.5	+20	40.2	8.0	✓
45	+20°	694	3	55.8	+20	16.5	8.8	✓
46	+20°	696	3	57.2	+20	48.6	8.8	✓
47	+22°	629	3	56.8	+22	46.1	8.3	✓
48	+23°	617	3	58.0	+23	7.0	8.7	✓
49	+23°	613	3	56.6	+23	22.9	7.8	✓
50	+23°	609	3	55.7	+23	42.6	6.0	✓
51	+23°	611	3	56.2	+23	5.9	8.7	✓
52	+22°	626	3	55.6	+23	59.8	8.2	✓
53	+22°	707	4	22.9	+22	31.4	7.8	✓
54	+23°	702	4	22.5	+23	2.0	7.4	✓

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Feb. 27, 1912

I 37589

No.	Class	Int.	Remark
55	a	5	E.
56	B8	10	Burned out
57	a5	2	E.
58	F	10	
59	F0	8	
60	a2	10	
61	F5	5	
62	a	2	
63	F2	4	
64	ma	3	
65	K	1	
66	g5	4	
67	a0	6	
68	g	3	
69	g	10+	
70	K	2	
71	mk	3	
72	a	3	
73	g5	4	
74	K0	6	
75	a	5	
76	B8	8	
77	F5	6	
78	a	10	E.
79	a	3	E.
80	g	6	E.
81	K	3	E.

Time: 22 hrs 43 min.

55	+23°	701	4	21.7	+23	16.5	7.0	Color Night
56	+22°	699	4	18.6	+22	39.3	6.2	
57	+21°	648	4	19.6	+21	59.7	8.7	
58	+22°	696	4	17.6	+22	28.3	4.5	
59	+21°	643	4	16.8	+21	51.6	6.0	
60	+21°	642	4	16.7	+21	58.1	4.3	
61	+21°	641	4	15.6	+21	23.1	8.0	
62	+21°	639	4	15.4	+21	12.0	8.6	
63	+22°	688	4	15.8	+22	24.8	8.0	
64	+22°	686	4	15.1	+22	36.6	8.0	
65	+22°	683	4	13.7	+22	19.3	8.8	
66	+23°	675	4	11.4	+23	13.8	7.5	
67	+23°	672	4	11.1	+23	23.9	7.5	
68	+23°	668	4	10.4	+23	41.1	7.8	
69	Mars.							
70	+22°	665	4	8.2	+22	59.3	8.7	
71	+23°	654	4	6.7	+23	44.2	8.7	
72	+23°	652	4	6.4	+23	57.0	8.9	
73	+23°	649	4	5.9	+23	13.0	8.0	
74	+23°	648	4	5.8	+23	20.5	7.0	
75	+23°	688	4	16.6	+23	27.4	8.6	
76	+23°	684	4	15.3	+23	57.6	6.5	
77	+24°	654	4	14.8	+24	3.8	7.3	
78	+25°	707	4	13.8	+25	16.6	5.7	
79	+25°	703	4	11.7	+25	28.7	7.8	
80	+25°	685	4	5.7	+25	53.2	7.6	
81	+25°	678	3	59.9	+25	30.1	7.5	

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Feb. 28, 1912

Time: 22 hrs. 0 min. I 37 5 99

Nr.	Class	Int	Remark
1	f_5	5	E.
2	F_8	6	E.
3	f_5	3	
4	F_5	3	
5	K	8	Focus favor.
6	K	2	
7	A2	6	
8	K0	2	
9	K0	4	
10	K0	8	
11	K	2	
12	F5	8	
13	A5	8	E.
14	F0	5	
15	K	10	
16	K	3	
17	K0	4	
18	f_5	2	
19	F5	2	
20	K2	10	
21	A2	6	
22	F2	2	
23	K2	3	
24	K	2	
25	F0	6	
26	F5	3	
27	A3	9	

1	+77°	565	15	1.0	+77	6.4	7.7 ✓
2	+77°	571	15	7.4	+77	54.8	7.8 ✓
3	+78°	498	14	54.4	+78	0.2	8.0 ✓
4	+78°	497	14	53.9	+78	4.6	8.4 ✓
5	+78°	501	14	56.6	+78	45.2	6.5 ✓
6	+79°	457	14	57.3	+79	20.2	9.1 ✓
7	+80°	459	14	59.2	+80	6.6	8.2 ✓
8	+80°	452	14	47.6	+80	23.5	8.5 ✓
9	+80°	451	14	48.5	+80	23.0	7.0 ✓
10	+80°	448	14	37.8	+80	17.0	6.3 ✓
11	+79°	450	14	39.3	+79	46.6	8.7 ✓
12	+79°	447	14	29.1	+79	9.3	6.8 ✓
13	+76°	536	14	48.6	+76	40.0	7.5 ✓
14	+77°	548	14	32.2	+77	11.9	8.2 ✓
15	+76°	527	14	27.8	+76	20.9	5.0 ✓
16	+75°	532	14	21.2	+75	43.3	7.5 ✓
17	+76°	520	14	18.6	+76	19.9	7.8 ✓
18	+77°	541	14	23.6	+77	20.1	8.9 ✓
19	+77°	540	14	20.4	+77	21.8	8.5 ✓
20	+78°	478	14	9.5	+78	13.9	5.0 ✓
21	+77°	529	14	5.4	+77	40.4	7.8 ✓
22	+77°	528	14	4.2	+77	22.3	9.0 ✓
23	+77°	523	13	54.3	+77	12.1	7.3 ✓
24	+76°	504	13	53.8	+76	58.4	8.3 ✓
25	+76°	502	13	48.0	+76	17.3	7.0 ✓
26	+76°	500	13	45.9	+76	16.9	7.5 ✓
27	+75°	529	14	5.8	+75	16.8	6.7 ✓

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Feb. 28, 1912.

I 37597

No.	Class	Int.	Remark
28	Ko	3	
29	G	2	E.
30	K	4	E.
31	F5	4	E.
32	G5	3	
33	A0	6	
34	G5	6	
35	G5	4	
36	K5	7	
37	A5	10	
38	F2	4	
39	G5	10	
40	G5	6	
41	G5	4	
42	A5	4	
43	F2	5	
44	K	3	
45	G5	6	
46	G	4	E.
47	F5	7	E.
48	K	3.	
49	G	10	Turned out
50	A0	8	
51	~~K~~ F5	2	
52	G5	2	
53	F2	3	
54	G5	7	

28	+75°	527	14	4.3	+75	24.5	7.5	✓
29	+75°	526	14	3.8	+75	15.6	8.4	✓
30	+75°	516	13	39.7	+75	21.6	8.0	✓
31	+75°	514	13	39.0	+75	11.9	8.5	✓
32	+76°	493	13	34.4	+76	39.5	7.8	✓
33	+76°	492	13	31.9	+76	31.2	7.0	✓
34	+76°	491	13	30.5	+76	48.8	6.7	✓
35	+77°	515	13	32.0	+77	2.4	7.5	✓
36	+77°	516	13	32.8	+77	17.7	6.0	✓
37	+77°	519	13	39.3	+77	37.0	6.2	✓
38	+78°	464	13	36.9	+78	37.7	8.0	✓
39	+78°	466	13	42.1	+78	47.4	5.8	✓
40	+79°	431	13	50.6	+79	42.8	6.6	✓
41	+79°	434	13	55.5	+79	40.7	7.7	✓
42	+79°	435	13	56.5	+79	23.9	8.1	✓
43	+79°	433	13	55.4	+79	5.6	7.7	✓
44	+80°	466	15	15.9	+80	44.8	8.1	✓
45	+81°	510	15	29.6	+81	32.8	7.8	✓
46	+82°	456	15	35.4	+82	23.2	8.2	✓
47	+82°	463	15	42.2	+82	44.4	7.5	✓
48	+83°	440	15	15.8	+83	22.3	8.5	✓
49	+83°	431	15	0.4	+83	6.2	6.0	✓
50	+81°	495	14	57.2	+81	20.1	6.8	✓
51	+80°	450	14	42.2	+80	55.7	8.9	✓
52	+80°	447	14	37.5	+80	42.3	8.9	✓
53	+81°	483	14	36.0	+81	12.0	8.7	✓
54	+81°	482	14	34.8	+81	27.1	6.7	✓

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Feb. 28, 1912
I 37599

No.	Class	Int.	Remark
55	A2	3	
56	K	2	
57	G5	5	
58	K0	7	
59	K	1	
60	K2	4	
61	K5	6	
62	K5	5	
63	K	2	
64	F5	3	
65	G5	10	Burned out.
66	F5	2	Difficult
67	K	1	
68	F5	3	
69	G5	5	
70	G	2	
71	A2	8	
72	G5	3	
73	K0	4	
74	K0	4	
75	F5	2	
76	G5	8	
77	G0	4	
78	F5	3	
79	G5	3	
80	A2	9	
81	G5	3	

55	+80°	432	14	18.8	+80	40.1	8.3 ✓
56	+79°	443	14	19.1	+79	59.4	7.8 ✓
57	+80°	422	13	50.3	+80	37.9	7.4 ✓
58	+81°	452	13	53.3	+81	28.9	6.8 ✓
59	+81°	447	13	44.5	+81	27.0	8.9 ✓
60	+81°	443	13	42.0	+81	47.2	8.5 ✓
61	+80°	421	13	42.6	+80	57.5	7.1 ✓
62	+80°	417	13	36.7	+80	5.9	7.5 ✓
63	+80°	412	13	28.7	+80	50.5	8.8 ✓
64	+79°	424	13	26.8	+79	42.8	9.3 ✓
65	+79°	422	13	25.8	+79	23.2	6.0 ✓
66	+78°	462	13	24.4	+78	27.8	8.3 ✓
67	+79°	421	13	21.1	+79	18.7	9.0 ✓
68	+79°	419	13	18.2	+79	4.7	8.5 ✓
69	+79°	418	13	13.0	+79	28.1	7.5 ✓
70	+78°	455	13	9.9	+78	37.8	8.8 ✓
71	+77°	506	13	9.4	+77	57.8	7.6 ✓
72	+78°	447	13	2.6	+78	27.8	8.0 ✓
73	+79°	407	12	51.7	+79	16.2	7.0 ✓
74	+80°	404	13	10.8	+80	25.1	7.5 ✓
75	+80°	403	13	8.5	+80	47.4	8.8 ✓
76	+81°	416	13	11.2	+81	14.4	6.3 ✓
77	+81°	402	12	58.0	+81	39.4	7.0 ✓
78	+80°	398	12	54.6	+80	43.4	8.3 ✓
79	+81°	407	12	45.6	+81	11.8	7.6 ✓
80	+81°	402	12	40.8	+81	25.0	6.3 ✓
81	+80°	395	12	41.2	+80	43.0	7.4 ✓

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Feb. 28, 1912.

I 37 599

No.	Class	Int.	Remark
82	F5?	2	Focus poor
83	F2	5	
84	G5	3	
85	A2	4	
86	G5	3	
87	A0	4	
88	G5	9	
89	G5	6	
90	B8	3	Difficult
91	A5	4	
92	F5	4	
93	A0	4	E.
94	K	5	E.
95	F	2	E.

Time 22 hrs 21 mins.

96 K0 2

82	+80°	393	12	39.4	+80	23.4	8.3
83	+81°	400	12	29.7	+81	3.0	6.8
84	+83°	423	14	46.0	+83	4.9	8.5
85	+82°	423	14	33.4	+82	36.2	9.0
86	+81°	464	14	11.4	+81	50.5	8.8
87	+82°	407	14	0.5	+82	19.0	8.2
88	+83°	397	13	46.7	+83	28.8	6.5
89	+84°	311	13	27.9	+84	3.4	7.5
90	+82°	397	13	32.8	+82	44.3	8.6
91	+82°	395	13	28.8	+82	0.8	8.5
92	+82°	390	13	16.6	+82	16.0	8.4
93	+83°	373	12	58.8	+83	43.0	8.3
94	+83°	369	12	52.8	+83	18.2	7.5
95	+82°	378	12	52.9	+82	56.4	8.5

Identified by J.C.M. April 9, 1912.
Checked by A.M.C. May 4, 1912

96	+80°	465	15	12.9	+80	35.4	8.0

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Feb. 28 1912

Time: 22 hrs. 22 min. Σ 37600 long

No.	Class	Int.	Remark.
1	K0	3	
2	B9	5	
3	B3	6	Hβ fainter than normal. Bright?
4	B8	4	
5	g	2	
6	B9	3	
7	A	1	
8	F8	6	
9	A2	8	
10	A	2	
11	g	1	
12	F0	2	
13	A	1	
14	F5	2	
15	K2	7	
16	g5	3	
17	F8	3	
18	K0	5	
19	K	8	
20	F0	2	
21	A	2	
22	K	3	Partly superposed on 23.
23	F0	5	
24	B8	6	
25	g	3	
26	F8	4	
27	A2	8	

No	Dm.		Ra.			Dec.		Mg.	
1	+62	582	3	23	39	+62	50.1	8.2	✓
2	+62	575	3	21	19	+62	56.6	9.0	✓
3	+63	426	3	22	1	+63	23.0	7.5	✓
4	+63	430	3	23	9	+63	44.9	8.5	✓
5	+63	425	3	21	34	+63	47.0	8.5	✓
6	+63	424	3	21	19	+63	58.0	8.8	✓
7	+64	397	3	22	33	+64	21.3	9.1	✓
8	+64	398	3	24	10	+64	51.9	8.5	✓
9	+65	348	3	20	30	+65	2.5	7.0	✓
10	+63	418	3	17	16	+63	9.8	9.1	✓
11	+63	417	3	16	43	+63	54.4	8.8	✓
12	+63	414	3	14	40	+63	18.1	8.8	✓
13	+63	413	3	14	4	+63	40.7	9.1	✓
14	+63	412	3	13	34	+63	25.0	8.9	✓
15	+64	391	3	12	9	+64	3.6	6.0	✓
16	+64	389	3	11	48	+64	42.9	8.3	✓
17	+64	390	3	12	4	+64	56.1	9.0	✓
18	+65	345	3	13	53	+65	41.2	7.0	✓
19	+65	347	3	19	1	+65	48.5	8.0	✓
20	+66	279	3	27	13	+66	28.7	8.5	✓
21	+66	275	3	21	28	+66	47.1	8.9	✓
22	+66	269	3	18	34	+66	55.0	7.5	✓
23	+67	273	3	18	33	+67	4.2	7.5	✓
24	+67	270	3	16	33	+67	56.4	8.4	✓
25	+67	279	3	24	18	+67	30.9	8.0	✓
26	+67	277	3	22	45	+67	27.5	7.8	✓
27	+68	258	3	21	20	+68	16.7	8.4	✓

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Feb. 28 1912

+37600

No.	Class	Int.	Remark
28	G5	2	
29	G	3	
30	K0	5	
31	A0	7	
32	F5	6	
33	A0	8	
34	A	5	E.
35	A	6	E.
Iron 36	G	2	Four very prom
37	F	1	
38	Comps.	9	Br = F5 Fr = A. K band = 0.1 of H.

Time: 22 hrs 32 mins.

✓ 39	B5	1	
✓ 40	B9	2	Another star super. S. south.
✓ 41	B9	2	
✓ 42	A	1	Another star super.?
✓ 43	K0	2	
✓ 44	K0	1	Partly super on 43
✓ 45	A0	2	
✓ 46	A2	2	
✓ 47	B0	1	
✓ 48	K0	1	
✓ 49	A0	1	
✓ 50	B5	1	
51			

Cent. B 131, 38

No	ΔRa		Ra		Dec.		Mg	
28	+6.8	25.7	3	19	5.1	+68	16.0	8.5 ✓ C
29	+6.8	24.2	3	12	5.0	+68	38.4	8.6 ✓
30	+6.7	25.6	3	7	2.5	+67	55.9	7.5 ✓
31	+6.8	25.0	3	15	2.5	+68	57.4	7.3 ✓
32	+6.8	24.7	3	14	3.9	+68	45.6	7.0 ✓
33	+6.9	20.5	3	6	1.6	+69	11.7	6.5 ✓
34	+6.8	23.0	3	3	5.1	+68	54.4	8.0 ✓
35	+6.9	20.3	3	2	4.7	+67	26.2	7.7 ✓
36	+6.8	28.6	3	34	4.9	+68	44.6	8.0 ✓
37	+6.8	27.3	3	30	4.1	+68	21.4	8.3 ✓
38	+62	60.4	3	33	2.4	+62	53.1	5.3 ✓

Identified by C.R.A. April 1, 1912.
Checked by J.C.M. April 5, 1912

39	+63°	391	2	55.6	+63	53.1	9.0 ✓	
40	+63°	402	3	1.2	+63	2.4	8.8 ✓	+62° 535 super. magn. 9.1
41	+62°	533	3	0.9	+62	38.8	9.0 ✓	
42	+64°	381	3	5.0	+64	9.7	9.3 ✓	
43	+64°	385	3	9.3	+64	35.4	8.5 ✓	
44	+64°	386	3	9.4	+64	29.3	9.0 ✓	
45	+64°	387	3	9.6	+64	46.3	8.7 ✓	
46	+62°	544	3	7.2	+62	49.6	8.8 ✓	
47	+65°	346	3	16.0	+65	17.3	8.8 ✓	
48	+68°	253	3	17.4	+68	13.6	9.2 ✓	
49	+68°	256	3	18.8	+68	12.2	8.9 ✓	
50	+67°	237	2	46.5	+67	0.9	9.0 ✓	

Identification compared by S.B.B. Identified on card by J.C.M. March 12, 1914.
Identified in book by A.M.C. March 17, 1914

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Feb. 28 1912

Time: 22 hrs 33 min. I 37309

No.	Class	Int.	Remark.
1	f_5	8	Focus poor
2	A_0	6	
3	K_0	8	
4	F_8	4	
5	K	2	
6	A	3	
7	A	4	
8	K	10	Burned out. K_0 on I 3781, to be adopted.
9	A	4	
10	F_8	8	
11	K_2	5	
12	A_0	7	D.
13	f_5	4	
14	F_5	4	
15	f_5	3	
16	F_8	5	
17	f_5	3	
18	K_5	3	
19	F_8	2	
20	K_0	8	
21	K	2	
22	f_5	5	
23	K_0	4	
24	A_0	8	
25	K_5	1	Difficult
26	K	2	
27	A	4	

No.	Obs.		RA.			Dec.		Mg.	
1	+82	57	1	55	5	+82	52.5	7.0	✓
2	+83	54	2	3	4	+83	0.3	8.9	✓
3	+83	56	2	13	16	+83	11.0	8.0	✓
4	+82	59	2	20	51	+83	59.0	9.0	✓
5	+83	60	2	23	39	+83	14.8	9.0	✓
6	+83	58	2	15	36	+83	38.2	9.0	✓
7	+84	48	2	36	41	+84	2.5	9.2	✓
8	+84	59	2	58	48	+84	23.1	6.0	✓
9	+84	69	3	28	8	+84	13.1	8.8	✓
10	+85	63	3	52	2.5	+85	9.9	6.5	✓
11	+84	78	3	58	4	+84	7.2	7.3	✓
12	+84	88	4	21	14	+84	36.6	7.7	✓
13	+83	79	3	0	6	+83	36.5	8.2	✓
14	+82	55	2	13	33	+82	21.4	8.7	✓
15	+82	60	2	23	7	+82	12.3	9.2	✓
16	+81	95	2	32	54	+81	47.3	8.6	✓
17	+81	96	2	34	44	+81	14.3	8.5	✓
18	+80	80	2	17	11	+80	58.5	8.4	✓
19	+80	88	2	24	46	+80	2.7	9.1	✓
20	+80	86	2	27	10	+80	49.8	5.9	✓
21	+81	90	2	26	32	+81	14.5	8.5	✓
22	+80	89	2	37	51	+80	27.9	8.0	✓
23	+80	90	2	38	53	+80	4.3	8.3	✓
24	+79	86	2	36	47	+79	27.8	8.6	✓
25	+79	87	2	38	58	+79	47.6	8.8	✓
26	+79	88	2	39	43	+79	39.2	8.4	✓
27	+79	90	2	46	56	+79	50.5	8.8	✓

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Feb. 28. 1912

I 37 309

No.	Class	Int.	Remark
28	Bq	5	
29	Ho	7	
30	F	2	
31	fg5	2	
32	F	2	
33	Nt	7	
34	K	1	
35	a	2	
36	ma	8	
37	a	2	
38	F	2	
39	Fo	6	
40	K	1	
41	K	2	
42	fg5	4	
43	a	2	
44	a2	3	
45	fg5	4	
46	a	4	E.
47	fg5	3	E.
48	Ka	3	E.
49	a	1	
50	a	2	
51	fg5	5	
52	fg5?	2	Very poor
53	fg	2	
54	fg5	2	

No.	Dm.		Ra.		Dec.		Mg.	
28	+79	91	2 49	31	+79	43.8	8.3	✓
29	+79	94	2 55	22	+79	30.6	7.3	✓
80	+79	95	2 55	42	+79	32.2	8.9	✓
31	+79	96	2 58	27	+79	47.7	8.1	✓
32	+80	103	2 59	17	+80	10.3	8.6	✓
33	+79	110	3 27	5	+79	51.2	7.8	✓
34	+79	107	3 20	28	+79	3.0	8.3	✓
35	+78	123	3 17	12	+78	48.3	8.9	✓
36	+78	103	2 47	5	+78	56.7	9.6	✓
37	+78	78	2 4	57	+78	59.6	9.0	✓
38	+78	80	2 6	36	+78	36.7	8.7	✓
39	+79	68	2 7	11	+79	6.5	7.7	✓
40	+78	87	2 8	54	+78	50.7	8.0	✓
41	+78	82	2 8	54	+78	59.1	7.9	✓
42	+79	75	2 18	24	+79	4.8	7.5	✓
43	+78	94	2 23	13	+78	53.5	8.5	✓
44	+78	95	2 26	50	+78	33.8	8.0	✓
45	+78	98	2 35	27	+78	4.0	8.0	✓
46	+77	76	1 58	38	+77	13.5	8.7	✓
47	+77	78	2 3	0	+77	3.7	7.9	✓
48	+77	79	2 6	5	+77	35.2	7.9	✓
49	+77	81	2 7	35	+77	58.1	9.2	✓
50	+78	81	2 8	27	+78	1.6	8.5	✓
51	+77	84	2 17	41	+77	0.7	7.5	✓
52	+77	86	2 18	34	+77	51.0	8.6	✓
53	+77	88	2 21	1	+77	59.4	8.3	✓
54	+77	95	2 27	06	+77	58.4	8.1	✓

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Feb. 28, 1912
I 37309

No.	Class	Int.	Remark
55	a	2	
56	a	2	
57	g_5	7	
58	a	6	E.

Time: 22 hrs. 43 min.

59	a_2	9	

Feb. 17, 1912	60	3		f_{10}
	✓ 61	3		a_3
	✓ 62	2		a_5
	✓ 63	4		a_0
	✓ 64	4		g_5
	✓ 65	2		a_2
	66	1	8.9	g_0
	67	1		78
	68	2		K_0
	69	2		Q_0
	70	9		a_5
	71	4		a_5

No.	Dm.		RA.			Dec.		Mg.	
55	+77	92	2	34	30	+77	32.6	8.9	✓
56	+77	93	2	25	20	+77	0.5	8.5	✓
57	+74.5	86	1	51	48	+75	24.8	5.0	✓
58	+75	94	2	10	15	+75	27.4	7.5	✓
59	+80	97	2	49	34	+80	54.2	5.5	✓

Identified by C.H.R. April 2, 1912.
Checked by J.C.M. April 5, 1912.

✓	60	+78	66	1	47.6	+78	11	8.1	45	m I 37227
✓	61	+77°	105	2	49.6	+77	59	8.5	145	" I 37555
✓	62	+75°	110	2	39.6	+75	~~56~~ 39	8.6	118	" "
✓	63	+76°	125	3	14.7	+76	6	8.6	134	" "
✓	64	+76°	142	3	38.1	+76	58	8.2	154	" "
✓	65	+76°	141	3	37.8	+76	16	9.0	125	" "
✓	66	+79°	131	3	50.4	+79	27	8.8	59	" I 37558
✓	67	+79°	130	3	48.4	+79	0	8.7	60	" "
✓	68	+77°	145	3	53.4	+77	59	8.4	47	" "
✓	69	+79°	120	3	37.3	+79	46	8.6	55	" "
✓	70	+77	165	3	2.2	+77	11	6.2	140	m I 37555
✓	71	+78	143	3	48.6	+78	2	8.5	15	m "

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Feb. 28, 1912

Time: 22 hrs 45 mins. ☿ 37615

No.	Class	Int.	Remark
1	F0	4	
2	A	2	
3	Bq	3	
4	Bq	3	
5	A5	2	
6	k5	7	
7	K	2	
8	K	1	
9	Bq	6	
10	k5	9	
11	Bq	7	
12	A2	3	
13	B8	3	
14	A3	7	
15	k5	2	
16	k5	4	
17	K	2	
18	k5	6	
19	K	2	
20	k5	3	
21	F5	2	
22	A5	7	
23	F5	7	
24	F0	7	
25	F5	2	
26	k5	6	
27	Bq	3	

1	+73°	139	2	14.2	+73	3.0	6.9 ✓
2	+72°	128	2	11.2	+72	50.3	7.5 ✓
3	+73°	131	2	10.2	+73	8.5	7.9 ✓
4	+72°	121	2	4.5	+72	38.8	8.0 ✓
5	+72°	120	2	2.9	+72	55.6	8.5 ✓
6	+73°	121	2	0.1	+73	19.6	6.5 ✓
7	+73°	142	2	16.3	+73	58.9	8.3 ✓
8	+75°	98	2	13.7	+75	18.5	8.5 ✓
9	+75°	94	2	10.2	+75	27.4	7.5 ✓
10	+75°	86	1	51.8	+75	24.8	5.0 ✓
11	+74°	91	1	48.8	+74	47.2	6.5 ✓
12	+74°	95	1	53.8	+74	10.2	7.5 ✓
13	+73°	112	1	53.9	+73	52.0	7.3 ✓
14	+73°	108	1	50.5	+73	8.3	6.2 ✓
15	+72°	114	1	48.5	+72	41.9	8.2 ✓
16	+72°	112	1	46.6	+72	27.1	7.2 ✓
17	+73°	104	1	47.0	+73	16.2	8.3 ✓
18	+74°	87	1	44.8	+74	37.0	6.5 ✓
19	+75°	83	1	47.2	+75	13.5	7.2 ✓
20	+75°	80	1	44.5	+75	39.1	7.6 ✓
21	+75°	77	1	42.7	+75	19.0	8.0 ✓
22	+75°	76	1	42.2	+75	29.8	6.8 ✓
23	+74°	84	1	38.8	+74	52.4	6.8 ✓
24	+75°	72	1	32.1	+75	7.8	7.0 ✓
25	+74°	78	1	33.8	+74	5.3	8.4 ✓
26	+73°	92	1	31.6	+73	51.5	6.8 ✓
27	+73°	84	1	27.4	+73	48.1	8.3 ✓

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Feb. 28, 1912

I 37615

No.	Class	Int.	Remark
28	B8	8	
29	g5	9	
30	g5	3	
31	A0	5	
32	g5	4	
33	g5	4	
34	K0	4	
35	A	7	E.
36	A0	3	
37	A	6	
38	A	2	A narrow edge of preceeding side of 37
39	A0	8	
40	A	7	E.
41	F5	2	Poor focus
42	F	2	
43	F	4	
44	F	1	Difficult
45	g5	5	
46	[illegible]	4	
47	A2	6	
48	K	2	
49	A5	2	Difficult
50	F2	3	
51	F8	2	
52	g5	5	
53	K2	3	
54	K0	2	

28	+73°	81	1	25.6	+73	32.7	6.5 ✓
29	+72°	86	1	27.0	+72	17.2	5.2 ✓
30	+71°	87	1	24.4	+71	40.4	7.8 ✓
31	+72°	69	1	13.3	+72	4.9	6.7 ✓
32	+72°	68	1	8.0	+72	6.4	6.7 ✓
33	+71°	64	1	8.2	+71	38.5	6.8 ✓
34	+70°	90	1	5.9	+70	59.7	6.0 ✓
35	+70°	102	1	15.2	+70	13.4	6.1 ✓
36	+72°	67	1	7.8	+72	38.2	8.5 ✓
37	+73°	62	1	5.8	+73	11.9	8.5 ✓
38	+73°	59	1	2.8	+73	9.1	7.5 ✓
39	+73°	51	0	54.5	+73	36.0	6.8 ✓
40	+74°	41	0	47.7	+74	41.5	8.0 ✓
41	+76°	31	0	50.5	+76	5.2	8.2 ✓
42	+76°	30	0	48.5	+76	40.7	8.8 ✓
43	+76°	28	0	46.7	+76	41.1	8.0 ✓
44	+73°	78	1	21.7	+73	52.3	8.5 ✓
45	+73°	75	1	17.5	+73	27.3	7.5 ✓
46	+73°	71	1	14.2	+73	21.9	7.8 ✓
47	+73°	66	1	10.4	+73	49.2	6.8 ✓
48	+76°	58	1	36.5	+76	16.0	8.0 ✓
49	+76°	53	1	28.3	+76	5.9	8.5 ✓
50	+75	69	1	26.3	+75	59.0	8.1 ✓
51	+76°	75	2	1.2	+76	15.4	9.0 ✓
52	+77°	84	2	17.7	+77	0.7	7.5 ✓
53	+77°	79	2	6.1	+77	35.2	7.9 ✓
54	+77°	78	2	3.0	+77	3.7	7.9 ✓

Carde made 8th

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Feb. 28, 1912

= 37615

No.	Class	Int.	Remarks
55	a	3	
56	a	5	E.
57	g5	4	Focus very poor

Time: 22 hrs. 56 min.

Feb. 17, 1916.

58	9	Fo	
59	1	K5	
60	5	K0	
61	3	A0	
62	2	G0	
63	2	A5	
64	3	A0	
65	2	F5	
66	1	G0	

Sc 67 1 F8

55	+79°	7'6	1	58.6	+77	13.5	8.7 ✓
56	+79°	8'6	2	36.1	+79	29.0	7.0 ✓
57	+79°	7'5	2	18.4	+79	4.8	7.5 ✓

Ident. by A.M.C.

Checked by J.C.M. April 5, 1912

58	+76°63		1	50.8	+76	35	5.3	46 on J37227
59	+77°	61	1	34.2 −6	+77	11	8.2	77
60	+75°	58	1	10.3	+75	58	7.1	77 on J37227
61	+78	49	1	22.8	+78	25	8.5	54 " "
62	+78	45	1	18.8	+78	24	8.5	55 " "
63	+77	45	1	5.5	+77	1	8.4	✓
64	+77	41	1	1.7	+77	4	8.3	✓
65	+77°	34	0	51.8	+77	33	8.3	
66	+77°	46	½	6.2	+77	52	8.5	

59, 63, 64, 65, 66 Ident. on cards by M.A.H. Feb. 21, 1916

Nos. 59, 65 + 66 idnt in book by J.C.M. Feb. 21, 1916.

Compared by M.A.H. Feb. 21, 1916

67	+71	89	1	25.5	+71	13	8.8	47 on J35972

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Feb. 29, 1912

June 2 3.40 — I 37602

No.	Class	Dist.	Remark
1	A	10	R
2	A2	3	
3	A0	3	
4	A	8	R
5	A	2	
6	B9	9	
7	A3	2	
8	B9	4	
9	K0	4	
10	A	3	
11	B9	5	
12	K0	6	
13	A3	9	
14	K5	5	
15	K5	3	
16	A0	4	
17	F5	2	
18	A	3	
19	A0	5	
20	F5	2	
21	A	2	
22	A0	7	
23	K5	2	
24	B9	3	
25	F0	6	
26	B9	5	
27	K2	8	

No	DM	Ra	Dec	Mg	
1	+12 912	5 41 24.3	+12 36.2	8.1	✓
2	+12 910	5 41 4.3	+12 6.0	8.3	✓
3	+12 909	5 40 54.8	+12 26.5	8.5	✓
4	+11 945	5 40 40.9	+11 56.3	7.5	✓
5	+12 907	5 40 22.8	+12 32.3	8.7	✓
6	+12 902	5 39 54.6	+12 22.4	7.5	✓
7	+12 901	5 39 51.6	+12 0.8	8.7	✓
8	+12 897	5 39 15.8	+12 35.3	8.5	✓
9	+12 896	5 39 5.1	+12 17.4	7.5	✓
10	+12 899	5 39 20.9	+12 12.0	8.7	✓
11	+12 894	5 38 17.4	+12 27.5	8.2	✓
12	+12 879	5 37 13.2	+12 43.3	8.0	✓
13	+12 884	5 36 52.1	+12 49.2	7.0	✓
14	+12 882	5 36 33.2	+12 20.7	8.1	✓
15	+11 920	5 35 46.8	+11 20.2	8.0	✓
16	+12 875	5 35 25.9	+12 55.7	8.1	✓
17	+13 964	5 34 50.3	+13 4.1	8.7	✓
18	+12 869	5 34 12.4	+12 54.0	8.7	✓
19	+13 957	5 33 58.4	+13 31.5	8.5	✓
20	+13 955	5 33 26.1	+13 57.0	7.0	✓
21	+13 954	5 33 17.8	+13 4.3	8.9	✓
22	+12 852	5 31 45.9	+12 56.5	7.5	✓
23	+12 848	5 30 45.1	+12 52.1	8.7	✓
24	+12 843	5 30 23.6	+12 35.1	8.8	✓
25	+11 879	5 31 26.2	+11 55.6	8.2	✓
26	+11 880	5 28 38.5	+11 45.8	8.3	✓
27	+10 828	5 29 1.2	+10 56.0	6.5	✓

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Feb. 29, 1912 (cont'd)

I 37602

No.	Class	Int.	Remark
28	K5	6	
29	Q0	4	
30	K5	6	
31	Q0	2	
32	F5	4	
33	B8	4	
34	K5	2	
35	B3	8	
36	Q0	4	
37	K5	9	E
38	A	3	E
39	B8?	2	E. Arcturus star partly superposed.
40	A	2	
41	A	3	
42	B8	10	
43	Q0	8	
44	G3	3	
45	K	2	
46	A	1	
47	B8	9	
48	Q0	7	
49	F8	2	
50	K0	5	
51	K5	2	
52	Q0	2	
53	Q0	3	Partly superposed on 54
54	B8	2	" " " 53

No	Dm	RA	Dec	Mg	
28	+12 830	5 28 27.8	+12 5.0	8.2	✓
29	+12 833	5 28 52.2	+12 23.3	8.5	✓
30	+12 829	5 28 2.0	+12 20.6	8.0	✓
31	+12 824	5 27 27.3	+12 44.6	8.7	✓
32	+13 930	5 27 8.8	+13 11.1	8.5	✓
33	+13 927	5 26 55.3	+13 18.9	8.5	✓
34	+12 810	5 23 14.3	+12 26.6	8.5	✓
35	+11 834	5 22 58.6	+11 58.8	7.6	✓
36	+11 838	5 23.24 54.3 0.9	+11 7.2 10.3	8.6 7	✓
37	+14 1041	5 42 13.8	+14 15.3	5.7	✓
38	+14 1037	5 41 40.6	+14 49.7	8.6	✓
39	+14 1033	5 40 57.6	+14 49.7	9.0	✓
40	+13 988	5 41 11.8	+13 52.4	8.7	✓
41	+14 1034	5 40 52.1	+14 2.1	8.6	✓
42	+13 979	5 39 30.4	+13 51.1	5.3	✓
43	+14 1025	5 38 57.3	+14 26.2	6.0	✓
44	+14 1027	5 39 21.5	+14 57.7	8.2	✓
45	+15 931	5 37 12.5	+15 40.0	8.5	✓
46	+15 928	5 38 41.0	+15 47.3	8.8	✓
47	+15 926	5 38 25.5	+15 46.0	6.2	✓
48	+16 855	5 36 31.5	+16 1.0	6.9	✓
49	+15 917	5 36 38.9	+15 34.2	8.8	✓
50	+14 1008	5 36 14.7	+14 59.8	7.8	✓
51	+14 1010	5 36 28.3	+14 30.4	8.5	✓
52	+14 1003	5 35 36.7	+14 36.1	9.0	✓
53	+14 999	5 35 18.2	+14 13.3	8.9	✓
54	+14 998	5 35 16.5	+14 20.3	8.8	✓

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Feb. 29, 1912 (Cont.)

I 37602

No.	Class	Int.	Remarks
55	B5	7	
56	B9	3	
57	B	2	
58	F0	4	
59	B0	5	
60	A0	4	
61	F0	8	
62	K	1	
63	A0	7	
64	A2	2	
65	B5	6	
66	B	2	
67	B0	3	
68	B9	3	
69	A0	3	
70	B3	10	
71	B0	2	
72	F0	5	
73	B5	9	
74	F5	2	
75	A0	10	
76	Ma	5	
77	B9	6	
78	A	5	2
79	A	2	
80	A	3	
81	B9	7	

No	Dm	RA	Dec	mg	
55	+14 991	5 34 45.0	+14 5.7	7.2	✓
56	+13 974	5 37 4.4	+13 38.6	8.8	✓
57	+13 971	5 36 58.4	+13 30.4	8.4	✓
58	+14 988	5 34 23.3	+14 56.8	8.5	✓
59	+15 896	5 33 16.1	+15 8.0	8.0	✓
60	+15 888	5 32 16.8	+15 1.2	8.1	✓
61	+15 887	5 32 0.7	+15 16.0	7.1	✓
62	+14 978	5 31 31.7	+14 42.2	8.5	✓
63	+14 973	5 30 52.2	+14 28.4	7.6	✓
64	+18 933	5 28 18.3	+18 17.6	8.4	✓
65	+15 871	5 29 20.2	+15 9.4	8.0	✓
66	+14 959	5 28 27.4	+14 7.4	8.5	✓
67	+14 958	5 28 12.4	+14 33.3	8.4	✓
68	+14 956	5 27 18.7	+14 19.4	8.5	✓
69	+13 922	5 26 18.5	+13 54.1	8.4	✓
70	+14 947	5 25 40.6	+14 12.0	5.7	✓
71	+14 939	5 24 30.9	+14 6.4	8.9	✓
72	+14 783	5 23 15.0	+14 31.4	8.3	✓
73	+14 934	5 23 19.6	+14 48.9	7.0	✓
74	+15 840	5 23 12.6	+15 11.9	9.0	✓
75	+15 837	5 22 8.4	+15 14.6	6.5	✓
76	+16 792	5 21 38.4	+16 2.8	7.5	✓
77	+16 786	5 20 29.0	+16 17.3	8.0	✓
78	+17 1029	5 42 4.5	+17 57.0	7.8	✓
79	+17 1019	5 41 2.5	+17 27.8	8.8	✓
80	+17 1018	5 40 46.0	+17 41.5	9.0	✓
81	+17 1013	5 40 2.6	+17 22.5	7.8	✓

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Feb. 29, 1912 (cont.)

I 3760v

No.	Class	Dist.	Remarks
82	A	2	
83	F	10	
84	F	5	Focus poor.
85	F	4	E
86	K	3	
87	F5	5	Focus poor.
88	A0	7	
89	G	3	
90	Ma	5	
91	A	2	
92	A5	3	Poor focus.
93	B9	7	
94	B9	3	
95	K	4	
96	K	3	E.
97	A	2	
98	A0	5	
99	A	4	
100	A0	6	
101	B3	10	
102	F5	5	
103	Ma	4	
104	A	3	The southern Superposed
105	G	3	The Northern. " Exact class uncertain due to 104
106	A	2	Impressing of 2.
107	K	1	
108	A	2	

No	Dm		Ra		Dec		mg	
82	+17	1011	5	39	45.6	+17	26.6	8.7 ✓
83	+17	1004	5	38	37.0	+17	40.5	6.1 ✓
84	+18	870	5	40	15.6	+18	11.3	7.3 ✓
85	+18	973	5	40	54.2	+18	34.1	7.7 ✓
86	+18	966	5	38	56.4	+18	40.4	8.3 ✓
87	+18	959	5	37	37.7	+18	48.4	8.3 ✓
88	+18	957	5	37	17.2	+18	43.8	8.2 ✓
89	+18	955	5	37	10.3	+18	34.6	8.4 ✓
90	+18	950	5	36	42.1	+18	38.1	7.5 ✓
91	+18	946	5	36	22.5	+18	46.2	8.7 ✓
92	+18	939	5	35	52.4	+18	27.3	8.5 ✓
93	+18	938	5	35	46.3	+18	47.1	7.8 ✓
94	+18	931	5	35	2.1	+18	4.4	8.8 ✓
95	+17	985	5	34	22.4	+17	18.2	8.6 ✓
96	+16	867	5	38	52.8	+16	31.3	8.6 ✓
97	+16	852	5	35	20.0	+16	16.8	9.0 ✓
98	+16	850	5	35	7.0	+16	37.6	8.5 ✓
99	+16	847	5	34	52.0	+16	35.2	8.8 ✓
100	+16	842	5	33	19.0	+16	9.3	8.5 ✓
101	+16	841	5	32	56.0	+16	28.2	5.5 ✓
102	+16	835	5	31	54.0	+16	19.9	7.8 ✓
103	+17	979	5	32	56.4	+17	26.9	8.0 ✓
104	+17	977	5	32	22.4	+17	6.7	8.8 ✓
105	+17	978	5	32	23.9	+17	14.8	8.6 ✓
106	+16	837	5	32	16.0	+16	51.7	9.0 ✓
107	+17	976	5	32	5.4	+17	20.7	9.3 ✓
108	+17	970	5	31	48.9	+17	16.8	9.3 ✓

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Feb. 29, 1912 (Cont.)

I 37602

No.	Class	Dist.	Remark
109	B9	4	
110	F	2	
111	A	3	
112	8	9	
113	B9	3	
114	F5	3	
115	A2	2	The preceding of 2.
116	A	2	
117	K0	4	
118	K	2	
119	B9	6	
120	F5	3	
121	F8	5	
122	A	2	
123	F8	4	
Time 2h 15m 124	F8	2	
125	A	2	
126	A	2	
127	B8	10	
128	F0	4	
129	A0	5	
130	A5	2	
131	A	2	
132	B2	10	Hβ bright?
133	K5	9	
134	K5	3	
135	A5?	1	Difficult

No	DM		Ra		Dec		Mag	
109	+17	774	5h	3m	37.4	+17	35.5	8.7 ✓
110	+17	771	5h	3m	53.2	+17	37.5	9.0 ✓
111	+16	869 8772	5h	28 30	39.9 1.6	+16	38.6 35.4	9.2 ✓
112	+16	822	5h	28	39.9	+16	35.4	6.2 ✓
113	+16	824	5h	29	8.7	+16	27.8	8.9 ✓
114	+15	872	5h	29	32.5	+15	49.0	8.3 ✓
115	+15	869	5h	29	57	+15	37.9	8.8 ✓
116	+15	868 872	5h	27	35 32.5	+15	7.5 48.9	9.0 8.8 ✓
117	+15	866	5h	28	29.3	+15	31.9	7.9 ✓
118	+16	813	5h	27	36.4	+16	2.9	8.6 ✓
119	+15	861	5h	26	44.6	+15	32.0	7.6 ✓
120	+15	857	5h	26	8.6	+15	41.9	8.4 ✓
121	+15	856	5h	25	41.6	+15	28.8	7.5 ✓
122	+14	950	5h	25	56.1	+14	5.2	8.8 ✓
123	+15	851	5h	24	48.2	+15	50.7	8.3 ✓
124	+15	838	5h	22	53.5	+15	40.8	8.7 ✓
125	+16	793	5h	22	5.0	+16	42.3	9.2 ✓
126	+14 16	846 866	5h	20	46 38.6	+14 16	5.3 58.1	9.8 ✓
127	+16	794	5h	23	51.2	+16	56.3	6.1 ✓
128	+17	946	5h	23	50.7	+17	38.2	8.4 ✓
129	+17	945	5h	23	37.2	+17	25.7	8.2 ✓
130	+17	943	5h	23	11.0	+17	12.2	8.5 ✓
131	+17	938	5h	22	29.2	+17	10.4	9.2 ✓
132	+18	877	5h	25	4.3	+18	26.3	6.2 ✓
133	+18 19	870	5h	23	42.8	+18	28.6	4.4 ✓
134	+18 19	873	5h	23	10.5	+18	7.6	7.4 ✓
135	+18 19	869	5h	22	48.9	+18	5.3	8.9 ✓

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No.	Class	Int.	Remark
136	Ma	1	
137	A2	7	
138	A0	8	
139	A	4	E.
140	A	2	
141	A	2	
142	A0	2	
143	Bq	8	
144	F2	4	
145	K0	4	
146	A	6	Another star of class A superposed at north.
147	A	3	
148	A0	2	
149	A0	2	
150	Bq	5	
151	K0	2	
152	A0	2	
153	K0	5	
154	A0	2	
155	K5	3	
156	A	2	
157	G	3	
158	Bq	8	E.
159	A0	4	E.
160	B8	9?	
161	F5	5	
162	A	2	

No	Dm	RA	Dec	Mg	
136	+18 8673	5h 22m 36.3s	+18° 26.5'	9.0	✓
137	+18 8633	5h 21m 21.3s	+18° 17.6	7.9	✓
138	+18 8622	5h 20m 50.8s	+18° 14.8	7.0	✓
139	+18 10733	5h 36m 9.0s	+20° 25.6	8.2	✓
140	+19 10455	5h 34m 58.3s	+19° 27.6	9.2	✓
141	+18 9044	5h 35m 18.7s	+18° 33.9	9.0	✓
142	+18 9255	5h 34m 37.1s	+18° 26.3	8.7	✓
143	+18 9233	5h 34m 22.8s	+18° 50.0	7.1	✓
144	+18 9178	5h 33m 54.0s	+18° 36.3	8.3	✓
145	+18 9220	5h 33m 57.2s	+18° 55.1	7.5	✓
146	+19 18233	5h 33m 11.1s	+19° 17.2	8.0	✓
147	+19 10179	5h 33m 3.0s	+19° 8.4	8.4	✓
148	+18 9111	5h 32m 38.7s	+18° 33.7	8.5	✓
149	+19 10097	5h 32m 13.4s	+19° 2.6	8.8	✓
150	+19 10064	5h 31m 55.1s	+19° 35.5	7.8	✓
151	+19 9998	5h 30m 33.8s	+19° 41.0	8.2	✓
152	+19 9986	5h 28m 59.9s	+19° 41.1	8.8	✓
153	+18 8974	5h 28m 8.0s	+18° 56.8	8.3	✓
154	+18 8991	5h 27m 46.1s	+18° 30.4	9.0	✓
155	+18 8887	5h 27m 15.2s	+18° 39.6	8.3	✓
156	+18 8881	5h 26m 29.5s	+18° 30.7	9.0	✓
157	+19 9974	5h 27m 35.7s	+19° 4.7	8.6	✓
158	+19 9972	5h 27m 28.2s	+19° 27.1	7.5	✓
159	+19 9971	5h 26m 44.3s	+19° 39.5	8.1	✓
160	+20 9897	5h 25m 50.0s	+20° 21.9	6.3	✓
161	+19 9591	5h 23m 50.8s	+19° 0.7	8.0	✓
162	+19 9946	5h 23m 12.0s	+19° 25.1	8.3	✓

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No.	Class	Frt.	Remark
163	B8	7	E.
164	K	4	E.
~~165~~			

Time 23 hrs. 23 min.

165	3	G0
166	1	K0
167	1	G0

168 2 K

No	DM			RA			Dec			Mg		
163	+20	967	5	21	38.0	+20	26.2		7.5	✓	Yale	
164	+20	961	5	20	22.0	+20	19.3		7.5	✓		GS

Identified by C.L.L. Mar. 27, 1912

Checked J.L.M. April 5, 1912

~ 165	+16	766	5	15	3	+16	21	8.0	117 m		I 37587
~ 166	+18	896	5	27	.6	+18	28	8.0	4 "		I 37388
167	+18°	880	5	26	.4	+18	1	9.1			

No. 167 identified on card by J.L.M. May 20, 1916

" " " in book by MAH May 20, 1916

Compared by M.A.H.

~ 168	+16	735	5	6	.0	+16	30	8.7	132 m		I 37587

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March 1, 1912

Time: 23 hrs. 27 min.

I 37566

No.	Class	Int.	Remark
1	a2	5	E.
2	Mb	5	E.
3	a3	3	E. Focus very poor.
4	a	3	
5	Fo	7	
6	Go	7	
7	Go	7	
8	Ko	6	
9	Ko	2	
10	Ko	4	
11	a5	4	
12	a0	4	
13	F	3	
14	a0	5	
15	G	2	
16	G5	8	
17	F	2	
18	F2	5	
19	a0	2	
20	F2	3	
21	Go	7	
22	Go	5	Partly superposed on 21
23	Go	5	
24	F8	2	
25	Go	4	
26	F0	8	
27	G5	6	

No	OM	RA	Dec	Mg	
1	+4 7.0	4 22 12.7	+4 5.5	8.7	✓
2	+4 6.9.6	4 21 58.3	+4 50.1	7.8	✓
3	+5 6.6.0	4 20 48.4	+5 45.9	9.0	✓
4	+6 6.8.7	4 19 50.2	+6 17.4	9.0	✓
5	+6 6.8.6	4 19 34.8	+6 44.3	7.0	✓
6	+6 6.8.5	4 19 3.8	+6 46.7	7.0	✓
7	+4 6.9.0	4 18 15.7	+4 48.2	8.0	✓
8	+5 6.4.9	4 17 54.9	+5 19.1	7.5	✓
9	+6 6.8.0	4 16 34.5	+6 29.4	9.0	✓
10	+6 6.7.8	4 16 29.9	+6 58.4	8.0	✓
11	+6 6.7.6	4 16 2.2	+6 1.1	8.9	✓
12	+6 6.7.1	4 15 22.5	+6 31.5	7.0	✓
13	+6 6.6.9	4 14 38.8	+6 10.7	8.8	✓
14	+6 6.6.7	4 13 48.3	+6 37.4	8.5	✓
15	+5 6.3.4	4 13 27.7	+5 53.5	8.7	✓
16	+5 6.3.1	4 12 57.9	+5 46.9	6.5	✓
17	+6 6.6.3	4 12 14.0	+6 10.4	8.9	✓
18	+5 6.2.2	4 10 52.6	+5 21.2	8.3	✓
19	+6 6.5.6	4 10 13.3	+6 30.1	9.1	✓
20	+5 6.2.0	4 9 18.7	+5 57.7	7.0	✓
21	+5 6.1.4	4 7 46.4	+5 48.5	7.5	✓
22	+5 6.1.3	4 7 43.4	+5 49.7	8.5	✓
23	+6 6.5.2	4 8 31.2	+6 47.1	7.8	✓
24	+7 6.2.4	4 8 15.5	+7 11.1	9.0	✓
25	+7 6.2.0	4 7 15.9	+7 2.1	8.3	✓
26	+7 6.1.7	4 5 44.8	+7 20.7	5.5	✓
27	+4 6.5.2	4 5 3.0	+4 39.2	8.3	✓

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No.	Class	Int.	Remark
28	g	1	
29	F2	6	
30	F0	9	
31	g5	2	
32	g5	3	
33	g5	2	
34	G	2	
35	Bq	4 N	
36	A0	7	
37	A0	2	
38	F8	3	
39	B5	9	
40	A0	10	
41	g5	3	
42	A0	2	
43	A	4	E.
44	A	2	
45	g	4	E.
46	A	8	E.
47	A	8	E.
48	F5	4	E.
49	g	3	E.
50	g5	4	
51	F8	5	
52	g5	6	E.
53	A3	4	E.
54	B8	7	

No	Dm.	RA.	Dec.	Mg.	
28	+4 65.0	4 4 28.4	+4 48.5	9.2	✓
29	+4 64.7	4 3 58.4	+4 56.6	8.4	✓
30	+5 60.1	4 3 36.9	+5 8.6	6.0	✓
31	+5 59.9	4 2 12.9	+5 12.9	8.8	✓
32	+6 64.3	4 3 20.0	+6 21.1	8.7	✓
33	+6 64.2	4 3 17.9	+6 54.5	8.8	✓
34	+6 64.1	4 2 56.6	+6 54.0	9.1	✓
35	+7 60.7	4 2 18.6	+7 18.5	8.3	✓
36	+6 63.7	4 1 41.9	+6 21.1	7.2	✓
37	+6 63.6	4 1 41.8	+6 21.8	8.2	✓
38	+5 58.9	3 59.2	+5 18.4	8.5	✓
39	+5 58.4	3 56 3.7	+5 1.7	6.2	✓
40	+5 58.1	3 55 27.2	+5 35.2	4.0	✓
41	+6 61.7	3 54 19.8	+6 7.1	8.7	✓
42	+4 61.9	3 53 8.6	+4 40.3	8.5	✓
43	+4 61.4	3 51 56.5	+4 12.3	8.2	✓
44	+5 56.8	3 50 6.8	+5 3.9	8.5	✓
45	+5 56.7	3 50 2.7	+5 18.2	8.3	✓
46	+5 56.4	3 49 19.8	+5 36.4	7.0	✓
47	+6 60.7	3 49 52.2	+6 27.4	8.5	✓
48	+6 60.5	3 48 51.2	+6 17.0	7.8	✓
49	+7 57.1	3 48 41.1	+7 9.2	8.5	✓
50	+7 57.6	3 50 36.5	+7 3.3	8.1	✓
51	+7 57.2	3 50 28.6	+7 11.5	7.8	✓
52	+6 69.6	4 23 20.2	+6 28.4	7.0	✓
53	+7 65.6	4 23 19.6	+7 0.5	7.5	✓
54	+6 69.4	4 28 22.2	+6 28.4	7.0	✓

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March 1, 1912
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No.	Class	Int.	Remark
55	B8	10	
56	B8	5	
57	g	2	
58	A0	7	
59	g5	2	
60	A0	10	
61	g5	2	
62	A0	5	
63	g	3	Partly superposed on 62
64	F5	5	
65	A2	8	
66	g5	2	
67	B8	5	
68	F8	2	
69	g	2	
70	g5	2	
71	g5	5	
72	A2	9	
73	A0	3	
74	B	10+	Burned out.
75	A	2	
76	g0	10	
77	A0	8	
78	F2	2	
79	G0	5	
80	Bg	5	
81	K0	3	

No	Dm.	Ra.	Dec.	Mg.	
55	+8 687	4 18 30.1	+8 15.8	6.5	✓
56	+9 578	4 18 43.1	+9 3.5	8.3	✓
57	+9 575	4 17 47.8	+9 24.3	9.0	✓
58	+9 571	4 16 46.8	+9 43.1	8.3	✓
59	+8 683	4 16 25.0	+8 59.4	8.8	✓
60	+9 570	4 15 57.6	+9 7.8	5.2	✓
61	+7 637	4 15 47.3	+7 43.6	8.3	✓
62	+8 678	4 15 6.3	+8 53.6	8.4	✓
63	+9 568	4 15 5.7	+9 3.1	8.6	✓
64	+9 567	4 14 55.9	+9 25.7	8.4	✓
65	+8 672	4 12 55.8	+8 52.6	7.0	✓
66	+8 671	4 12 52.2	+8 2.5	8.5	✓
67	+7 631	4 12 27.8	+7 27.8	7.8	✓
68	+7 629	4 11 57.5	+7 56.1	9.0	✓
69	+8 667	4 11 26.9	+8 10.2	7.0	✓
70	+8 672	4 12 8.9	+8 55.9	8.9	✓
71	+8 666	4 11 25.1	+8 55.9	8.4	✓
72	+9 558	4 10 32.0	+9 7.7	7.3	✓
73	+8 658	4 8 13.4	+8 40.9	9.0	✓
74	+8 657	4 7 40.4	+8 32.5	4.5	✓
75	+8 656	4 7 27.7	+8 3.9	8.8	✓
76	+8 642	4 6 3.3	+8 53.8	4.7	✓
77	+8 651	4 5 40.7	+8 32.5	6.8	✓
78	+8 648	4 5 8.1	+8 45.1	8.8	✓
79	+9 646	4 4 21.8	+9 17.3	8.0	✓
80	+8 644	4 2 30.4	+8 3.1	8.3	✓
81	+7 597	3 59 0.7	+7 48.1	8.7	✓

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No.	Class	Fut.	Remark
82	F8	5	1
83	F2	10	
84	F0	5	
85	A0	2	
86	F8	2	
87	A	2	
88	K0	6	
89	F8	8	
90	B8	10	Burned out
91	A	2	
92	F2	6	E.
93	Ma	3	E.
94	[illegible]	3	E.
95	[illegible]	6	E
96	[illegible]	6	E.
97	B8	7	E.
98	A0	6	
99	A	3	
100	A	10	E.
101	K0	6	
102	A	1	
103	A2	8	E.
104	A2	4	
105	A0	4	
106	K0	7	
107	F5	5	
108	A0	4	

No	DM.		Ra.		Dec.		Mg.	
82	+8	6.3 3	3	5.8	23.1	+8	6.1	8.0 ✓
83	+7	5.9 2	3	5.6	7.1	+7	47.6	5.9 ✓
84	+7	5.8 9	3	5.5	9.6	+7	43.6	7.8 ✓
85	+7	5.8 3	3	5.4	2.9	+7	11.4	8.5 ✓
86	+7	5.8 3	3	5.3	11.0	+7	26.2	9.0 ✓
87	+7	5.7 7	3	5.6	40.5	+7	56.9	8.8 ✓
88	+8	6.2.5	3	5.5	18.7	+8	29.0	7.0 ✓
89	+8	6.2 3	3	5.3	7.2	+8	48.7	8.0 ✓
90	+9	5.2 8	3	5.3	52.6	+9	35.1	5.8 ✓
91	+9	5.2.5	3	5.2	38.6	+9	45.5	8.3 ✓
92	+9	5.2 4	3	5.1	44.1	+9	54.9	6.9 ✓
93	+10	5.1 3	3	5.0	40.8	+10	35.8	7.7 ✓
94	+9	5.2 4	3	5.1	3.7	+9	23.0	8.0 ✓
95	+10	5.8 8	4	2.2	58.2	+10	25.7	7.8 ✓
96	+9	5.9 0	4	2.2	4.4	+9	55.9	7.0 ✓
97	+10	5.8 3	4	2.1	45.7	+10	11.7	7.0 ✓
98	+9	5.8 4	4	2.0	6.4	+9	44.5	7.8 ✓
99	+9	5.8 3	4	1.9	54.7	+9	40.6	8.3 ✓
100	+10	5.7 7	4	1.9	28.3	+10	52.6	6.4 ✓
101	+11	6.0 4	4	1.6	12.7	+11	49.3	7.0 ✓
102	+11	6.0 2	4	1.5	42.3	+11	10.5	8.5 ✓
103	+11	6.0 1	4	1.5	16.6	+11	2.6	6.8 ✓
104	+10	5.6 3	4	1.3	10.8	+10	10.6	8.5 ✓
105	+10	5.6 0	4	1.2	43.3	+10	52.7	8.7 ✓
106	+9	5.6 2	4	1.1	42.8	+9	49.9	6.5 ✓
107	+11	5.9 2	4	1.1	28.8	+11	36.5	7.5 ✓
108	+10	5.5 5	4	0.9	40.5	+10	40.7	8.5 ✓

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H 37566

No.	Class	Int.	Remark
109	A2	6	
110	F5	6	
111	B8	10	Burned out
112	B8	8	
113	A2	5	
114	F2	3	
115	G5	3	E.
116	G5	2	E.
117	G5	3	E.
118	F5	2	E.
119	Ma	4	
120	F8	4	
121	F5	3	
122	G5	5	
123	F8	3	
124	G0	6	E.
125	A0	5	E.

Time 23 hrs. 48 min.

No	DM.	RA.	Dec.	Mg.	
109	+10 5552	4 7 4.1	+10 22.4	8.1 ✓	C
110	+10 5551	4 6 36.1	+10 20.4	7.8 ✓	C
111	+9 5550	4 6 41.8	+9 37.8	5.7 ✓	C
112	+9 5549	4 5 39.3	+9 50.6	7.2 ✓	C
113	+10 5550	4 6 2.6	+10 39.5	8.0 ✓	C
114	+10 5548	4 4 46.5	+10 48.7	8.2 ✓	
115	+10 5544	4 2 4.5	+10 27.7	8.2 ✓	E
116	+10 5542	4 1 54.5	+10 24.6	8.3 ✓	E
117	+10 5541	4 1 11.0	+10 22.6	8.5 ✓	E
118	+10 5540	4 1 2.5	+10 32.8	8.8 ✓	E
119	+9 5543	4 0 48.3	+9 42.0	6.5 ✓	
120	+10 5538	3 59 11.5	+10 24.3	8.3 ✓	
121	+10 5538.7	3 59 11.5	+10 24.3 35.0	8.3 ✓	E
122	+9 5532	3 57 47.7	+9 38.4	7.2 ✓	E
123	+8 6531	3 57 42.8	+8 48.5	8.8 ✓	
124	+11 5813	4 6 14.2	+11 58.4	7.0 ✓	
125	+11 5771	4 59 10.8	+11 52.6	7.6 ✓	

Identified by C.H.A. April 1, 1912
Checked by J.C.M. April 9, 1912.

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March 1, 1912

Time: 23 hrs. 52 min. I 37593

No.	Class	Int.	Remark.
1	A2	3	E.
2	g5	2	E.
3	K0	9	
4	A2	3	
5	g5	4	
6	G0	5	
7	F8	7	
8	K0	7	
9	K2	4	
10	K	2	
11	g	2	
12	g0	4	
13	G	4	
14	A2	4	
15	g5	2	
16	K0	6	
17	K2	8	
18	F5	6	
19	A0	2	
20	A3	8	
21	g5	3	
22	Mb	4	
23	F	2	
24	F5	2	E.
25	A2	2	B
26	A0	3	
27	A2	4	

No	DM	Rh	Dec	mg	
1	−1.6 63	4 24 47.4	−1 5 1.8	8.3	✓
2	−1 6 6 0	4 24 23.4	−1 37.8	8.0	✓
3	−0 7 1 3	4 24 28.6	−0 21.9	8.0	✓
4	−0 7 1 0	4 23 19.8	−0 12.4	7.8	✓
5	−2 9 2 3	4 23 15.6	−2 32.8	8.3	✓
6	−2 9 0 4 (3)	4 19 ~~37.2~~ 28.4	−2 ~~27.6~~ 37.4	8.5	✓
7	−2 8 9 9	4 18 22.9	−2 34.1	7.3	✓
8	−1 6 4 1	4 18 20.4	−1 40.6	7.5	✓
9	−0 7 0 2	4 19 5.5	−0 50.2	7.5	✓
10	−0 7 0 1	4 18 26.1	−0 23.2	8.3	✓
11	−1 6 3 5	4 16 37.5	−1 4.2	9.0	✓
12	−1 6 3 0	4 15 57.7	−1 18.3	8.5	✓
13	−1 6 2 7	4 15 41.0	−1 43.2	8.5	✓
14	−2 8 8 3	4 15 24.4	−2 30.1	8.3	✓
15	−2 8 8 4	4 15 20.8	−2 15.8	8.5	✓
16	−0 6 9 0	4 15 7.8	−0 53.9	8.0	✓
17	−0 6 8 7	4 14 2.9	−0 26.2	6.3	✓
18	−0 6 8 5	4 13 27.1	−0 16.0	8.0	✓
19	−0 6 8 2	4 12 27.9	−0 6.1	8.7	✓
20	−1 6 1 9	4 13 10.9	−1 39.0	7.5	✓
21	−1 6 1 5	4 11 33.3	−1 15.9	8.3	✓
22	−2 8 6 7	4 12 57.7	−2 57.0	6.7	✓
23	−2 8 7 4	4 13 41.4	−2 18.3	9.0	✓
24	−2 8 6 4	4 12 27.8	−2 49.0	8.7	✓
25	−3 7 4 0	4 11 28.5	−3 3.1	8.9	✓
26	−2 8 5 8	4 11 1.3	−2 45.6	8.5	✓
27	−2 8 5 3	4 9 59.5	−2 37.8	8.9	✓

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March 2, 1912

I 37697 3

No.	Class	Int.	Remark
28	F5	3	
29	A0	3	
30	F2	3	
31	A0	3	
32	G0	4	
33	G5	4	
34	K0	2	
35	B5	8	
36	K	1	
37	K0	4	
38	K0	6	
39	K	1	
40	F8	6	
41	F5	5	
42	K0	2	
43	F8	7	
44	G5	6	
45	G5	3	
46	A	7	E.
47	G	3	E. Faint
48	A	10	E.
49	A0	6	
50	F8	2	
51	G5	5	E.
52	G5	2	E.
53	B8	6	
54			

Time: 0 hrs. 4 min.

No	Dm	RA	Dec	mg	
28	−2 8°45′	4h 10m 21.1s	−2° 12′.4	8.8	✓
29	−2 8 48	4 9 17.6	−2 44.5	8.2	✓
30	−1 6 12	4 10 13.4	−1 14.5	8.8	✓
31	−1 6 08	4 9 22.6	−1 7.9	8.8	✓
32	−0 6 68	4 9 10.0	−0 55.8	8.0	✓
33	−1 6 04	4 7 38.9	−1 22.1	8.5	✓
34	−1 6 03	4 6 57.4	−1 57.6	8.5	✓
35	−1 6 00	4 6 20.4	−1 31.3	7.5	✓
36	−2 8 44	4 7 18.8	−2 30.4	7.8	✓
37	−2 8 32	4 5 10.2	−2 53.6	7.6	✓
38	−0 6 53	4 4 9.7	−0 47.9	7.2	✓
39	−2 8 20	4 2 10.3	−2 4.0	8.5	✓
40	−0 6 48	4 1 45.4	−0 13.5	8.0	✓
41	+0 7 01	4 1 14.7	+0 23.8	8.2	✓
42	−0 6 42	3 58 44.5	−0 24.8	8.3	✓
43	−0 6 40	3 57 55.5	−0 57.5	7.5	✓
44	−1 5 81	3 57 54.9	−1 24.6	7.8	✓
45	−1 5 77	3 56 47.9	−1 34.0	8.3	✓
46	−2 7 98	3 57 35.6	−25 49.7	6.8	✓
47	−2 7 77	3 54 56.8	−2 2.4	8.0	✓
48	−1 5 72	3 54 10.2	−1 57.4	8.5	✓
49	−1 5 74	3 55 15.9	−1 12.3	7.2	✓
50	−0 6 32	3 55 11.6	−0 39.8	6.2	✓
51	+0 7 89	4 27 1.7	+0 6.6	7.5	✓
52	+0 7 85	4 26 3.6	+0 42.6	8.5	✓
53	+0 7 80	4 24 56.2	+0 39.9	8.0	✓
54					

Cards made

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March 4, 1912 (cont.)

June 2.34

I 37593

No.	Class	Sub.	Remark
54	B5	9	
55	45	5	
56	75	3	
57	K0	6	
58	B8	6	
59	Q3	5	
60	70	6	
61	45	2	
62	9	1	
63	Q2	7	
64	K	2	
65	B9	3	
66	35	8	
67	78	4	
68	K2	3	
69	7	2	
70	B9	3	
71	Q2	7	
72	45	3	
73	40	2	
74	Q5	2	
75	90	2	
76	45	2	
77	Q0	8	
78	70	5	
79	K	1	
80	41	5	

No	DM	RA	Dec	Mg	
54	+1 7057	4 21 2.9	+1 3.1	5.7	✓
55	+1 7055	4 20 33.0	+1 32.2	6.5	✓
56	+2 7201	4 21 16.9	+2 3.3	8.3	✓
57	+1 7053	4 19 27.6	+1 45.3	6.3	✓
58	+0 7053	4 18 28.9	+0 40.6	8.2	✓
59	+1 7049	4 17 52.4	+1 52.9	8.2	✓
60	+2 7002	4 16 53.0	+2 8.8	8.0	✓
61	+2 7000	4 16 9.6	+2 42.5	8.5	✓
62	+2 6998	4 15 49.8	+2 44.8	9.0	✓
63	+2 6996	4 15 24.1	+2 33.8	7.8	✓
64	+2 6995	4 14 53.7	+2 43.5	8.4	✓
65	+3 5995	4 14 55.2	+3 4.0	8.6	✓
66	+2 6992	4 14 14.3	+2 3.1	7.5	✓
67	+0 7035	4 13 44.9	+0 30.4	8.5	✓
68	+0 7034	4 13 36.5	+0 55.5	8.2	✓
69	+1 7037	4 12 39.5	+1 37.5	8.8	✓
70	+1 7035	4 12 6.3	+1 51.0	8.7	✓
71	+1 7034	4 11 28.7	+1 23.7	8.3	✓
72	+1 7033	4 11 26.2	+1 25.5	8.3	✓
73	+0 7029	4 11 0.9	+0 55.9	8.7	✓
74	+0 7026	4 9 44.4	+0 32.7	9.0	✓
75	−0 6978	4 10 49.0	−0 8.0	8.5	✓
76	+0 7022	4 8 40.2	+0 13.9	8.5	✓
77	+0 7021	4 8 37.0	+0 4.8	7.5	✓
78	−0 6966	4 8 14.4	−0 22.6	7.5	✓
79	+0 7023	4 8 44.3	+0 53.2	8.7	✓
80	+1 7022	4 6 53.8	+1 17.1	8.0	✓

Cards made 9/7

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March 4, 1912 (Cont.)
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No.	Class	Dist.	Remarks
81	Ko	3	
82	Ko	5	
83	G	2	
84	G0	7	
85	K	1	
86	Ma	4	
87	K0	3	
88	K2	9	
89	K5	4	
90	G	2	
91	G9	6	
92	K8	9	Line 4077 is seen Distinctly like S Capricorni.
93	K0	5	
94	A0	6	
95	K8	3	
96	K	2	E.
97	G	2	E.
98	K	9	E.
99	K0	3	Focus poor
100	Mb	4	
101	A	3	
102	A	1	
103	K0	6	
104	K5	5	
105	K0	4	
106	G5	3	
107	G	2	

No	Dm	RA	Dec	Mg	
81	+1 721	4 6 53.8	+1 52.7	8.5	✓
82	+1 719	4 5 27.0	+1 32.4	7.8	✓
83	+0 711	4 5 9.1	+0 21.9	9.0	✓
84	+0 710	4 4 43.0	+0 21.6	7.5	✓
85	+0 5 07	4 2 47.3	+0 57.5	8.0	
86	+1 713	4 3 38.0	+1 56.8	8.2	✓
87	+1 711	4 3 29.5	+1 34.8	9.0	✓
88	+2 6 05	4 2 9.3	+2 56.2	7.1	✓
89	+3 5 63	4 0 15 8	+3 54.2	8.6	✓
90	+3 5 62	4 0 5.7	+3 55.9	9.2	✓
91	+3 5 54	3 56 26.0	+3 26.8	8.7	✓
92	+2 6 45	3 56 34.8	+2 25 5	8.8	✓
93	+2 6 41	3 55 47.9	+1 46.7	7.8	+2°641 Superposed ✓
94	+3 5 52	3 54 58.4	+3 25.8	7.7	✓
95	+1 699	3 59 10.6	+1 17.2	8.2	✓
96	+3 619	4 26 37.6	+3 27.2	8.0	✓
97	+3 612	4 23 18.1	+3 9.7	8.8	✓
98	+5 674	4 24 21.8	+4 6.0	7.2	✓
99	+4 700	4 22 12.7	+4 57.5	8.7	✓
100	+4 696	4 21 58.3	+4 50.1	7.8	✓
101	+3 603	4 19 25.2	+3 57.0	8.9	✓
102	+4 692	4 18 54.6	+4 15.4	9.0	✓
103	+4 691	4 18 23.1	+4 2.4	7.2	✓
104	+4 690	4 18 15.7	+4 48.2	8.0	✓
105	+5 649	4 17 54.9	+4 19.1	7.5	✓
106	+3 596	4 15 30.9	+3 38.6	8.5	✓
107	+4 683	4 15 23.5	+4 15.9	8.5	✓

Carbon Marks

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Mar. 4, 1912

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No.	Class	Dist.	Remark
108	A0	6	
109	A3	7	
110	G5	2	
111	G5	4	
112	G5	5	
113	A2	2	
114	F	2	
115	G5	3	
116	A0	7	
117	A0	7	
118	A0	6	
119	K	2	
120	F5	4	
121	G5	5	
122	G	2	
123	G	3	
124	K2	2	
125	F2	7	
126	F8	4	
127	A	2	
~~128~~			

Limit 2.50

No	DM	RA	Dec	Mg	
108	+3 5912	4h 14m 3.9	+3° 36.1	8.2	✓
109	+2 6855	4 12 5.5	+2 38.2	8.0	✓
110	+2 6851	4 11 9.5	+2 47.8	8.5	✓
111	+2 6850	4 11 2.7	+2 6.2	8.2	✓
112	+2 6773	4 9 47.5	+2 10.1	7.7	✓
113	+1 7329	4 9 11.7	+1 58.6	9.0	✓
114	+1 7328	4 8 55.0	+1 42.7	8.8	✓
115	+2 6770	4 9 2.0	+2 25.8	8.2	✓
116	+2 6767	4 7 32.8	+2 53.1	8.5	✓
117	+3 5776	4 7 49.3	+3 38.9	8.2	✓
118	+3 5775	4 7 31.8	+3 36.4	8.5	✓
119	+3 5774	4 7 12.6	+3 0.1	8.5	✓
120	+2 6761	4 5 48.6	+2 30.3	8.5	✓
121	+4 6352	4 5 3.0	+4 39.2	8.3	✓
122	+4 6342	4 1 32.7	+4 22.4	8.7	✓
123	+4 6773	4 11 2.5	+4 23.4	8.7	✓
124	+4 6772	4 10 51.6	+4 35.2	8.5	✓
125	+4 6768	4 9 30.9	+4 39.9	8.2	✓
126	+4 6766	4 9 15.4	+4 11.9	8.7	✓
127	+4 6764	4 8 43.4	+4 5.3	9.0	✓

Identified by C.R.A. Mar 13, 1912

Checked by A.M.C. Mar. 14, 1912

Carr Mark

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March 5, 1912

I 37569

Trine 12.45

No.	Class	Dist.	Remark
1	K0	5	
2	Q2	10	
3	K0	8	
4	F5	4	
5	F8	3	
6	K	2	Partly superposed on 7
7	K5	4	
8	Q2	4	
9	Q	2	E.
10	B8	7	Difficult. Nearer violet end is superposed on 11
11	G5	6	
12	K2	2	
13	Q0	4	
14	Q3	7	
15	G	1	
16	K5	10	E.
17	Q0	5	
18	F5	2	
19	F5	3	
20	Q	3	
21	K	2	
22	Q5	2	E.
23	K5	3	
24	K	10	Burned out.
25	K	10+	
26	K	2	
27	B5	7	E

No	DM	RA	Dec	Mg	
1	+27 1395	7 19 39.7	+27 50.5	7.1	✓
2	+28 1396	7 20 17.5	+28 26.1	6.0	✓
3	+28 1397 (1400)	7 20 47.5	+28 13.0	5.0	✓
4	+28 1405	7 21 38.1	+28 12.3	8.0	✓
5	+27 1403	7 22 24.7	+27 55.4	8.1	✓
6	+27 1405	7 23 8.5	+27 24.8	8.9	✓
7	+27 1406	7 23 14.5	+27 25.5	8.0	✓
8	+27 1409	7 23 47.4	+27 07.2	8.5	✓
9	+27 1411	7 24 16.6	+27 44.3	8.8	✓
10	+28 1415	7 25 26.0	+28 43.0	7.7	✓
11	+28 1416	7 25 27.5	+28 09.7	7.0	✓
12	+28 1417	7 25 57.0	+28 48.7	7.7	✓
13	+28 1418	7 25 02.5	+28 34.4	7.8	✓
14	+28 1419	7 26 20.7	+28 56.9	7.5	✓
15	+28 1420	7 27 3.7	+28 56.9	7.0	✓
16	+27 1424	7 26 58.3	+27 12.7	4.2	✓
17	+28 1426	7 28 46.3	+28 3.5	8.2	✓
18	+28 1427 (1428)	7 29 24.6 ~~29.6~~	+28 38.0 ~~37.5~~	9.0 ~~8.7~~	✓
19	+29 1578	7 31 38.2	+29 9.6	8.8	✓
20	+28 1438	7 31 49.2	+28 16.7	8.7	✓
21	+27 1443	7 31 11.6	+27 38.5	8.5	✓
22	+27 1454	7 33 32.6	+27 19.8	8.7	✓
23	+29 1587	7 33 36.8	+29 9.8	8.1	✓
24	+29 1590	7 34 13.3	+29 13.5	5.0	✓
25	+28 1463	7 36 26.4	+28 22.2	1.3	✓
26	+27 1464	7 35 37.8	+27 49.8 (49.3)	8.4	✓
27	+27 1470	7 36 58.3	+27 4.3	8.0	✓

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March 5, 1912 (cont)

I 37569

No.	Class	Mst.	Remarks
28	Gs	5	
29	Gs	7	
30	Fo	6	
31	Fo	4	
32	Q2	8	
33	Ko	6	
34	Gs	4	
35	Gs	7	
36	Gs	2	
37	Ao	5	
38	K	1	
39	Ko	3	
40	Ao	9	
41	F	3	Partly superposed on 40
42	Ao	10	Burned out.
43	Fs	6	
44	A	3	
45	Gs	2	E.
46	Ko	3	E
47	Go	4	
48	G	2	
49	F2	2	
50	Gs	1	
51	Ko	2	
52	Ao	2	
53	G	2	Poor focus
54	Go	6	

No	DM	RA	Dec	Mg	
28	+29 1614	7 38 56.8	+29 1.0	7.5	✓
29	+29 1615	7 39 27.7	+29 7.6	7.2	✓
30	+28 1474	7 40 0.7	+28 55.6	8.0	✓
31	+28 1476	7 40 14.9	+28 49.9	8.2	✓
32	+28 1482	7 40 57.5	+28 33.1	7.3	✓
33	+27 1490	7 41 0.1	+27 43.0	7.7	✓
34	+29 1622	7 41 16.4	+29 4.6	7.9	✓
35	+29 1624	7 42 23.4	+29 01.5	7.2	✓
36	+29 1628	7 42 52.6	+29 32.1	8.2	✓
37	+30 1589	7 43 25.4	+30 17.9	8.1	✓
38	+30 1590	7 43 41.0	+30 05.4	8.7	✓
39	+29 1641	7 45 1.8	+29 34.6	8.3	✓
40	+28 1497	7 44 22.5	+28 24.9	7.1	✓
41	+28 1496	7 44 17.2	+28 16.5	8.4	✓
42	+27 1499	7 44 37.3	+27 8.0	8.0	✓
43	+28 1500	7 46 9.6	+28 45.5	7.3	✓
44	+28 1502	7 47 2.3	+28 4.5	8.5	✓
45	+27 1501	7 46 15.1	+27 28.2	8.8	✓
46	+27 1513	7 48 47.9	+27 58.2	7.7	✓
47	+29 1645	7 46 26.6	+29 31.8	8.3	✓
48	+29 1651	7 47 17.6	+29 18.5	8.6	✓
49	+29 1653	7 47 43.8	+29 42.7	9.0	✓
50	+28 1513	7 48 10.8	+28 52.9	8.9	✓
51	+29 1656	7 48 52.1	+29 53.8	8.4	✓
52	+29 1658	7 49 21.5	+29 35.8	9.0	✓
53	+28 1513	7 50 15.2	+28 52.9	8.7	✓
54	+29 1664	7 51 32.8	+29 39.1	7.5	✓

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March 5, 1912 (cont.)
I 37569

No.	class	Dist.	Remarks
55	Ao	2	ε
56	Ao	4	ε
57	As	5	
58	Ks	3	
59	Fs	2	
60	Ks	2	
61	Ks	1	
62	Ao	4	
63	Fs	2	Partly superposed on 62.
64	Ko	3	
65	Fs	2	
66	Ko	5	
67	A3	2	
68	K	10	
69	Ks	3	
70	K	2	
71	Fs	4	
72	Fo	4	
73	A2	3	
74	Ks	2	
75	B9	6	
76	Ko	2	
77	Ks	5	
78	A	2	
79	Fo	9	
80	K	2	
81	M	4	

No	Dm	RA	Dec		Mag	
55	+29 1667	7 5 2 25.2	+29	59.4	8.7	✓
56	+32 1668	7 5 2 53.8	+32	1.8	8.2	✓
57	+29 1535	7 19 3.4	+29	42.4	7.6	✓
58	+29 1540	7 21 15.4	+29	29.1	8.0	✓
59	+29 1543	7 21 58.1	+29	4.6	8.5	✓
60	+29 1544	7 22 16.8	+29	30.8	8.2	✓
61	+29 1546	7 22 36.9	+29	7.9	8.7	✓
62	+30 1519	7 21 44.8	+30	52.2	8.4	✓
63	+30 1520	7 21 57.2	+30	52.2	8.5	✓
64	+31 1606	7 23 1.4	+31	24.0	8.3	✓
65	+31 1608	7 23 36.6	+31	35.4	8.5	✓
66	+30 1525	7 24 20.9	+30	50.5	7.5	✓
67	+30 1527	7 24 55.7	+30	41.1	9.0	✓
68	+31 1620	7 25 56.4	+31	16.1	6.5	✓
69	+31 1623	7 26 40.7	+31	1.5	8.6	✓
70	+30 1530	7 26 15.0	+30	32.8	8.5	✓
71	+30 1533	7 27 32.9	+30	5.8	8.4	✓
72	+30 1535	7 27 57.3	+30	59.3	8.5	✓
73	+29 1562	7 28 16.1	+29	31.0	8.8	✓
74	+31 1634	7 29 7.4	+31	1.3	8.3	✓
75	+31 1633	7 28 15.3	+31	56.0	7.5	✓
76	+31 1635	7 29 9.9	+31	38.8	8.1	✓
77	+32 1592	7 28 52.4	+32	40.5	7.5	✓
78	+32 1593	7 29 2.7	+32	20.5	8.8	✓
79	+32 1599	7 30 37.2	+32	19.8	7.0	✓
80	+32 1611	7 33 39.5	+32	21.1	8.7	✓
81	+32 1613	7 34 12.0	+32	46.2	7.8	✓

Carda made

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March 5, 1912 (cont'd)

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No.	Class	Dist.	Remark
82	F0	5	
83	G	1	The preceding of a group.
84	F5	3	
85	X A5	6	
86	K2	7	
87	G	2	
88	G5	2	
89	G5	3	
90	F	2	
91	F0	4	
92	B9	3	
93	G5	4	
94	K	1	
95	B9	7	
96	A5	8	
97	A5	5½	
98	A3	2	
99	F8	4	
100	F8	1	
101	G5	4	
102	F5	6	
103	F0	5	
104	G0	4	
105	F0	3	
106	G5	4	
107	G5	2	
108	G0	3	

No	Dm	RA	Dec	mg	
82	+32 1615	7 35 27.6	+32 40.3	8.3	✓
83	+31 1644	7 33 12.5	+31 32.4	8.9	✓
84	+31 1649	7 33 54.6	+31 34.8	8.7	✓
85	+31 1660	7 35 25.5	+31 27.4	7.7	✓
86	+30 1549	7 33 11.1	+30 30.5	7.0	✓
87	+30 1553	7 33 47.5	+30 9.8	8.9	✓
88	+30 1557	7 34 14.8	+30 37.9	8.7	✓
89	+30 1566	7 38 18.2	+30 26.8	8.1	✓
90	+29 1646	7 38 14.6	+29 56.5	9.0	✓
91	+31 1668	7 39 33.6	+31 15.8	8.5	✓
92	+31 1672	7 40 14.8	+31 5.6	8.6	✓
93	+30 1581	7 41 53.9	+30 37.4	7.6	✓
94	+30 1574	7 40 54.7	+30 17.6	8.3	✓
95	+30 1583	7 42 21.9	+30 53.6	8.0	✓
96	+31 1676	7 41 48.0	+31 58.0	7.0	✓
97	+31 1677	7 41 53.9	+31 58.5	8.1	✓
98	+32 1631	7 44 22.1	+32 23.4	8.8	✓
99	+32 1647	7 44 31.8	+32 34.0	8.8	✓
100	+32 1638	7 44 8.1	+32 34.1	9.4	✓
101	+32 1640	7 44 37.5	+32 42.7	8.0	✓
102	+32 1644	7 45 41.6	+32 40.6	8.6	✓
103	+32 1648	7 47 15.1	+32 4.8	7.2	✓
104	+31 1684	7 44 16.8	+31 2.8	8.2	✓
105	+31 1690	7 40 24.7	+31 22.1	8.6	✓
106	+30 1601	7 45 37.4	+30 44.5	7.5	✓
107	+30 1608	7 46 24.0	+30 56.8	8.5	✓
108	+30 1610	7 46 36.4	+30 45.5	8.4	✓

Cancer

Mwdk

Gem

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March 5, 1912 (Cont)
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No.	Class	Int.	Remarks
109	As	4	
110	Ko	6	
111	As	4	
112	Bg	4	
113	Kp	3	
114	Bs	2	
115	Ao	4	
116	K	2	
117	Ap	7	
118	Ao	9	E.
119	Ao	8	
120	Bs	5	
121	Kp	2	
122	K	2	Diffuse.
123	Bo	4	
124	F	10+	Burned out.
125	Bs	2	
126	Kp	2	
127	Kp	3	
128	Ao	3	
129	F8	2	
130	F5	2	
131	K	1	
132	Bs	3	
133	Ap	8	
134	A2p	7	
135	Bs	4	

No	Dm	RA	Dec	Mg.	
109	+30 1609	7 46 36.0	+30 13.8	8.5	√
110	+30 1611	7 47 11.0	+30 13.8	7.0	√
111	+31 1700	7 47 56.6	+31 31.8	8.7	√
112	+30 1620	7 48 49.0	+30 56.9	8.7	√
113	+31 1705	7 50 2.8	+31 6.6	8.3	√
114	+30 1626	7 50 13.1	+30 56.3	8.3	√
115	+31 1706	7 50 16.6	+31 53.4	8.5	√
116	+31 1710	7 50 53.3	+31 57.2	8.5	√
117	+32 1666	7 52 36.4	+32 32.8	8.0	√
118	+33 1636	7 54 53.5	+33 26.3	6.8	√
119	+32 1545	7 16 48.1	+32 16.7	7.2	√
120	+31 1574	7 17 22.0	+31 54.2	7.5	√
121	+31 1576	7 17 31.1	+31 53.2	9.0	√
122	+32 1550	7 17 38.4	+32 2.1	8.8	√
123	+32 1559	7 19 17.1	+32 9.6	8.7	√
124	+32 1562	7 19 47.1	+32 4.2	5.0	√
125	+30 1508	7 18 52.9	+30 36.1	8.7	√
126	+31 1591	7 19 57.8	+31 18.9	8.8	√
127	+31 1598	7 21 10.6	+31 26.4	8.0	√
128	+31 ~~1645~~ 1599	7 21 12.9	+31 49.4	8.7	√
129	+33 1541	7 20 57.6	+33 0.0	9.0	√
130	+33 1543	7 23 47.7	+33 23.7 Na. 8	7.8	√
131	+33 1543	7 22 31.6	+33 30.3	8.9	√
132	+33 1544	7 22 58.2	+33 47.4	8.5	√
133	+34 1629	7 23 43.3	+34 14.5	7.5	√
134	+33 1550	7 25 0.7	+33 26.0	7.5	√
135	+33 1547	7 23 53.4	+33 10.8	7.8	√

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No.	Class	Dist.	Remark
136	Ko	3	
137	A	2	
138	A	10+	Burned out
139	Go	5	
140	Go	3	
141	Fo	5	
142	Go	6	
143	A2	2	
144	A2	3	
145	F8	3	
146	F5	8	
147	F2	3	
148	A3	6	
149	A2	7	
150	G	2	
151	K	2	
152	G5	4	
153	K2	8	
154	G5	3	
155	G5	4	
156	Go	5	Ceres
157	A	2	
158	Go	3	
159	F2	5	
160	Ko	2	
161	F2	2	
162	A0	10	

No	Dm	RA	Dec	Mg	
136	+31 1577	7 24 10.5	+32 56.6	8.0	✓
137	+31 1576	7 23 57.7	+31 20.6	8.7	✓
138	+32 1581	7 25 20.7	+32 11.9	1.7	✓
139	+33 1554	7 26 52.9	+33 9.3	8.0	✓
140	+34 1645	7 28 45.1	+34 2.0	8.0	✓
141	+34 1646	7 27 5.8	+34 1.9	7.9	✓
142	+33 1560	7 28 56.6	+33 30.2	7.0	✓
143	+33 1561	7 29 52.5	+33 8.7	7.1	✓
144	+33 1562	7 30 13.8	+33 17.4	7.0	✓
145	+33 1566	7 32 9.2	+33 44.5	8.4	✓
146	+34 1657	7 33 19.7	+34 20.5	6.5	✓
147	+33 1570	7 34 57.1	+33 28.6	8.0	✓
148	+34 1669	7 36 14.9	+34 54.0	7.9	✓
149	+35 1679	7 37 36.6	+35 18.4	7.5	✓
150	+34 1668	7 36 8.1	+34 20.6	8.4	✓
151	+34 1667	7 36 5.4	+34 10.5	8.7	✓
152	+33 1584	7 38 1.5	+33 55.8	8.0	✓
153	+33 1585	7 38 8.6	+33 46.2	5.3	✓
154	+33 1583	7 37 55.7	+33 22.3	7.5	✓
155	+33 1587	7 38 48.1	+33 11.7	7.3	✓
156	~~+32 1626~~	~~7 37 40.7~~	~~+32 50.0~~	9.0	Ceres ✓
157	+31 1652	7 36 34.0	+31 55.1	9.0	✓
158	+33 1589	7 38 37.1	+33 37.4	8.5	✓
159	+30 1589	7 39 3.7	+30 37.1	8.0	✓
160	+34 1675	7 38 57.5	+34 3.5	8.5	✓
161	+33 1595	7 40 7.4	+33 41.9	8.9	✓
162	+33 1601	7 41 44.6	+33 36.3	6.5	✓

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No.	Class	Sub.	Remarks
163	Y	2	
164	F5	4	
165	Bq	4	
166	Ko	2	
167	Ko	2	
168	Go	3	
169	A	2	
170	A2	7	
171	Ko	3	
172	Y	2	
173	K	1	
174	K	2	
175	A0	6	
176	Ma	5	Focus poor.
177	Ko	7	
178	K	4	Focus poor.
179	M	4	E.
180	F	6	E
181	Bq	6	E
182	Ko	3	
183	A0	2	
184	Ma	4	
185	A0	6	
186	K2	4	
187	A2	2	
188	K5	5	Focus poor.
189	F5	6	

No	Dm	Ra	Dec	Mg	
163	+34 1692	7 42 9.2	+34 8.9	8.7	✓
164	+34 1695	7 42 42.8	+34 12.6	8.0	✓
165	+33 1609	7 43 25.8	+33 55.8	8.4	✓
166	+33 1604 1888	7 42 17.3	+33 2.6	8.8 9.2	✓
167	+33 1610	7 44 21.0	+33 4.9	8.1	✓
168	+33 1615	7 45 21.5	+33 30.9	8.5	✓
169	+33 1614	7 45 11.2	+33 57.3	9.1	✓
170	+33 1622	7 48 20.2	+33 2.6	7.3	✓
171	+33 1623	7 48 42.6	+33 19.6	8.0	✓
172	+33 1624	7 48 50.4	+33 47.0	9.0	✓
173	+33 1627	7 49 57.5	+33 26.7	8.5	✓
174	+33 1629	7 50 25.2	+33 4.9	8.4	✓
175	+34 1724	7 49 52.1	+34 16.7	7.5	✓
176	+35 1722	7 50 0.7	+35 5.6	7.0	✓
177	+35 1731	7 52 29.8	+35 48.2	6.5	✓
178	+36 1731	7 52 52.2	+36 17.6	8.0	✓
179	+36 1735	7 54 10.8	+36 45.1	7.0	✓
180	+36 1740	7 56 33.8	+36 42.4	7.0	✓
181	+33 1526	7 16 33.5	+33 9.0	7.5	✓
182	+33 1534	7 19 22.6	+33 20.1	8.5	✓
183	+33 1612	7 18 52.3	+33 13.7	8.9	✓
184	+34 1614	7 19 14.5	+34 44.1	7.5	✓
185	+35 1623	7 19 55.5	+35 6.2	7.5	✓
186	+35 1624	7 19 57.7	+35 28.2	7.2	✓
187	+34 1623	7 21 16.0	+34 6.1	9.1	✓
188	+35 1635	7 22 24.4	+35 54.3	7.0	✓
189	+36 1645	7 23 44.5	+36 6.3	7.9	✓

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No.	Class	Dist.	Remark
190	K	3	
191	K	3	
192	K5	3	
193	K5	6	E
194	K	2	
195	F	4	
196	F0	3	
197	F	2	
198	F2	2	
199	B9	4	
200	F	2	
201	A5	2	
202	K5	9	
203	F	10	
204	K2	1	
205	F2	4	
206	K	2	
207	K	3	
208	F0	7	
209	A0	5	E
210	F0	6	
211	K2	5	
212	M	4	
213	F8	6	
214	K5	6	
215	F0	5	
216	K	3	
217	K	3	

No	Dm	RA	Dec	mg	
190	+36 1641	7 22 38.8	+36 26.8	8.1	✓
191	+36 1639	7 22 26.7	+36 50.4	8.4	✓
192	+37 1738	7 23 20.4	+37 19.3	7.8	✓
193	+37 1740	7 23 42.2	+37 30.1	6.5	✓
194	+35 1649	7 25 44.5	+35 22.9	8.5	✓
195	+35 1652	7 26 18.2	+35 11.0	8.0	✓
196	+34 1639	7 26 32.8	+34 38.0	8.7	✓
197	+34 1648 2d	7 27 22.9	+34 37.2	9.3	✓
198	+35 1653	7 26 38.9	+35 18.0	8.6	✓
199	+35 1656	7 26 57.0	+35 44.8	8.3	✓
200	+35 1657	7 27 16.3	+35 42.7	8.7	✓
201	+35 1658	7 27 31.6	+35 34.5	9.0	✓
202	+35 1662	7 29 1.5	+35 23.0	8.8	✓
203	+34 1649	7 29 41.9	+34 50.3	6.0	✓
204	+34 1648	7 29 20.5	+34 22.9	8.5	✓
205	+35 1666	7 31 12.7	+35 0.9	8.3	✓
206	+34 1655	7 31 7.6	+34 10.8	8.5	✓
207	+36 1677	7 36 22.4	+36 19.4	8.2	✓
208	+36 1686	7 38 52.3	+36 58.9	8.1	✓
209	+37 1778	7 39 43.4	+37 28.4	8.3	✓
210	+37 1781	7 41 28.5	+37 30.0	7.7	✓
211	+37 1784	7 41 37.9	+37 27.6	6.8	✓
212	+36 1696	7 42 36.9	+36 32.4	7.0	✓
213	+36 1697	7 42 42.9	+36 38.0	7.4	✓
214	+37 1795	7 44 36.4	+37 6.9	7.3	✓
215	+37 1799	7 45 34.2	+37 34.2	7.8	✓
216	+37 1800	7 45 54.6	+37 20.7	8.0	✓
217	+36 1711	7 46 4.0	+36 52.8	8.0	✓

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No.	class	Dist.	Remark
218	G5	6	
219	A0	9	
220	F8	2	
221	G0	5	
222	G	3	
223	K0	4	
224	K	1	
225	G5	3	
226	A	2	
227	A	3	
228	K5	6	E.
229	A	3	E.
230	K0	2	
231	F5	3	
232	A2	2	
233	G	2	
234	G5	2	
235	G	2	
236	A5	5	E.
237	F	6	
238	F5	4	E
239	Ma	9	Extreme edge

June 1.27

No	DM	RA	Dec	mg	
218	+36 1717	7 47 10.9	+36 53.9	7.7	✓
219	+35 1705	7 46 13.6	+35 47.8	6.5	✓
220	+35 1702	7 44 52.4	+35 8.1	8.5	✓
221	+34 1705	7 45 26.6	+34 59.2	7.9	✓
222	+34 1719	7 46 38.8	+34 48.8	8.8	✓
223	+34 1712	7 46 40.1	+34 45.3	7.3	✓
224	+34 1714	7 47 31.7	+34 39.4	8.5	✓
225	+34 1717	7 48 11.7	+34 26.4	8.0	✓
226	+35 1713	7 47 18.1	+35 14.7	9.0	✓
227	+35 1720	7 48 52.3	+35 19.3	8.0	✓
228	+36 1726	7 50 22.8	+36 28.2	6.8	✓
229	+37 1813	7 49 58.7	+37 29.2	8.0	✓
230	+34 1676	7 38 0.7	+34 29.5	8.3	✓
231	+34 1688	7 41 24.7	+34 30.3	8.4	✓
232	+35 1696	7 42 44.1	+35 19.9	9.0	✓
233	+34 1699	7 43 28.2	+34 49.1	8.6	✓
234	+34 1700	7 43 44.3	+34 29.8	8.5	✓
235	+34 1703	7 40 0.9	+34 39.6	8.3	✓
236	+37 1756	7 32 0.8	+37 45.7	7.6	✓
237	+37 1759	7 32 47.0	+37 25.7	7.7	✓
238	+36 1670	7 33 10.9	+36 50.7	8.4	✓
239	+37 1769	7 36 58.4	+37 57.9	5.3	✓

Identified by C.L.A. Mar. 17, 1912
Checked by A.M.C. Mar. 20, 1912

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March 6, 1912

I 37571

Time 3.30

No.	Class	Dist.	Remark
1	K0	4	
2	G5	4	
3	G	3	Focus f. own.
4	K0	3	
5	K0	4	
6	G	3	
7	B9	4	e.
8	G	3	
9	K0	2	
10	F0	10	
11	B	10+	Burned out. B5?
12	F8	3	
13	F8	6	
14	K.	1	
15	K5	3	
16	G	2	
17	F5	12	Difficult.
18	G	2	
19	K2	3	
20	F0	4	
21	F	1	
22	F5	3	
23	F8	5	
24	G	2	
25	K0	4	
26	K5	2	
27	F	2	

no	DM.	RA.	Dec.	mg	
1	+15° 2156	9h 54m 38.6s	+15° 18.4	8.1	✓
2	+15° 2141	9h 55m 18.4s	+15° 55.2	7.7	✓
3	+16° 2055	9h 52m 1.3s	+16° 52.3	8.5	✓
4	+16° 2059	9h 52m 39.6s	+16° 33.3	7.5	✓
5	+16° 2061	9h 53m 27.5s	+16° 23.1	8.0	✓
6	+16° 2064	9h 54m 9.5s	+16° 3.5	8.3	✓
7	+15° 2156	9h 54m 36.6s	+15° 17.0	8.0	✓
8	+16° 2067	9h 54m 57.4s	+16° 44.6	8.8	✓
9	+15° 2164	9h 57m 12.7s	+15° 50.7	7.8	✓
10	+16° 2077	9h 57m 48.9s	+16° 26.7	6.9	✓
11	+17° 2171	9h 57m 20.4s	+17° 28.7	3.4	✓
12	+16° 2080	9h 59m 46.7s	+15° 59.9	8.6	✓
13	+15° 2167	9h 59m 49.0s	+15° 52.8	7.5	✓
14	+17° 2177	10h 1m 57.3s	+17° 29.0	9.0	✓
15	+17° 2179	10h 2m 14.3s	+17° 13.6	8.2	✓
16	+16° 2088	10h 1m 50.9s	+16° 38.9	8.3	✓
17	+15° 2168	10h 1m 34.0s	+15° 56.0	8.8	✓
18	+16° 2087	10h 1m 42.8s	+16° 3.9	8.5	✓
19	+16° 2090	10h 2m 49.4s	+16° 45.2	8.3	✓
20	+16° 2091	10h 2m 51.3s	+16° 25.8	7.7	✓
21	+16° 2092	10h 3m 16.2s	+16° 13.4	8.8	✓
22	+17° 2180	10h 3m 52.8s	+17° 58.9	8.6	✓
23	+18° 2330	10h 4m 26.9s	+18° 1.4	8.1	✓
24	+17° 2181	10h 4m 25.3s	+17° 2.9	8.9	✓
25	+17° 2183	10h 5m 8.0s	+17° 10.0	8.3	✓
26	+17° 2185	10h 5m 15.3s	+17° 44.6	8.6	✓
27	+17° 2189	10h 6m 47.5s	+17° 30.9	9.3	✓

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No.	Class	Dist.	Remark
28	G5	3	
29	K0	5	
30	F5	1	
31	F8	2	
32	F0	9	
33	K2	2	
34	G0	3	
35	A0	8	
36	G5	2	
37	G5	2	Poor focus.
38	G5	2	
39	F0	4	
40	A2	2	
41	F0	5	
42	A2	2	
43	G5	2	
44	G5	3	
45	G5	2	
46	F8	7	H8 double. Magh focus.
47	G5	2	
48	K	3	E
49	G5	5	
50	A0	9	
51	G0	5	
52	K	3	E.
53	K	2	
54	F8	6	

No	DM.	RA.	Dec.	Mg.	
28	+17 2192	10 7 17.5	+17 54.2	8.2	✓
29	+16 2091B	10 6 40.6	+16 51.8	7.2	✓
30	+16 2100	10 6 45.1	+16 57.0	9.2	✓
31	+16 2104	10 8 9.4	+16 7.6	8.5	✓
32	+18 2338	10 8 22.9	+18 28.4	7.0	✓
33	+17 2197	10 10 7.5	+17 54.4	8.2	✓
34	+18 2342	10 10 26.5	+18 6.8	8.5	✓
35	+18 2345	10 11 5.6	+18 25.6	7.2	✓
36	+17 2203	10 11 36.5	+17 40.2	8.1	✓
37	+16 2112	10 12 32.4	+16 53.4	8.9	✓
38	+17 2210	10 14 20.4	+17 10.8	8.6	✓
39	+17 2212	10 14 43.5	+17 27.5	7.8	✓
40	+17 2211	10 14 23.8	+17 50.9	8.6	✓
41	+18 2352	10 14 36.8	+18 14.4	7.5	✓
42	+18 2354	10 15 20.1	+18 27.4	8.7	✓
43	+18 2358	10 16 43.8	+18 39.0	8.6	✓
44	+18 2360	10 17 19.1	+18 14.7	8.2	✓
45	+17 2221	10 18 33.2	+17 58.1	8.6	✓
46	+17 2224	10 19 2.9	+17 58.1	7.5	✓
47	+18 2366	10 19 17.6	+18 47.9	8.7	✓
48	+18 2368	10 21 5.1	+18 49.0	8.2	✓
49	+17 2231	10 20 53.8	+17 51.9	7.2	✓
50	+15 2192	10 14 8.3	+15 42.3	6.3	✓
51	+16 2116	10 14 57.7	+16 57.1	7.3	✓
52	+15 2195	10 15 59.8	+15 34.1	8.7	✓
53	+16 2122	10 19 40.8	+16 31.0	7.5	✓
54	+16 2123	10 20 39.8	+16 31.3	7.0	✓

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March 6, 1912 (Cont.)

I 37571

No.	Class	Qual.	Remark
55	Y	4	☾
56	Y	3	☾
57	K0	3	
58	Y	5	Focus poor.
59	F8	4	
60	F8	2	
61	F5	5	
62	F8	5	
63	Y	2	
64	K5	2	
65	Y5	4	
66	Y	2	
67	Y5	3	
68	Y5	2	
69	Q3	3	
70	Y0	5	
71	K0	3	
72	Y	2	
73	Y5	2	
74	Y5	7	
75	Y5	4	
76	Y5	2	
77	F5	4	
78	Y5	4	
79	K	1	
80	F2	4	
81	K0	8	Doubl. Quaya Narrow Clear Obscr

No	Dm.	Rt.	Dec.	Mg.	
55	+19 2283	9 47 32.2	+19 29.8	8.0	✓
56	+18 2291	9 47 57.5	+18 13.7	7.8	✓
57	+19 2284	9 49 20.4	+19 58.8	8.0	✓
58	+20 2299	9 49 2.0	+20 26.7	7.5	✓
59	+20 2407	9 49 40.5	+20 52.3	8.4	✓
60	+21 2139	9 51 9.3	+21 5.8	7.0	✓
61	+18 2303	9 52 40.5	+18 14.8	8.0	✓
62	+18 2309	9 53 46.8	+18 53.4	8.0	✓
63	+20 2415	9 53 51.0 88.8	+20 39.3	9.0	✓
64	+19 2293	9 54 23.2	+19 50.2	8.2	✓
65	+19 2297	9 55 37.5	+19 38.5	7.7	✓
66	+20 2423	9 55 40.6	+20 57.5	9.0	✓
67	+20 2429	9 57 8.9	+20 36.9	8.0	✓
68	+20 2430	9 57 11.2	+20 7.8	7.7	✓
69	+19 2298	9 58 10.8	+19 9.4	8.3	✓
70	+18 2317	9 58 44.5	+18 30.9	8.0	✓
71	+19 2304	9 59 52.6	+19 10.6	7.9	✓
72	+19 2305	10 0 15.5	+19 27.7	8.3	✓
73	+18 2320	9 59 40.5	+18 27.0	9.0	✓
74	+19 2307	10 1 10.5	+19 14.2	7.5	✓
75	+18 2326	10 2 10.6	+18 54.5	8.2	✓
76	+19 2309	10 2 34.8	+19 37.4	8.8	✓
77	+19 2311	10 3 40.7	+19 2.5	8.2	✓
78	+19 2312	10 4 0.0	+19 38.8	8.5	✓
79	+19 2317	10 4 37.5	+19 36.0	8.9	✓
80	+19 2324	10 7 12.4	+19 48.5	8.8	✓
81					✓

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No.	Class	Sub.	Remark
82	Ka	3	
83	Ko	2	
84	Ko	4	
85	K	10+	Burned out.
86	[illegible]	10	
87	[illegible]	4	
88	[illegible]	2	
89	[illegible]	5	
90	K	2	Partly superposed on 88
91	Ko	3	
92	A2	3	
93	[illegible]	3	may be F5 e.
94	[illegible]	5	e
95	[illegible]	3	e
96	F8	4	e
97	F8	5	e
98	Ko	7	e
99	Ko	3	e
100	F8	5	e
101	[illegible]	2	e
101a	[illegible]	2	e
102	K	3	e
103	K	2	e
104	[illegible]	5	e
105	[illegible]	5	e
106	F5	5	
107	A2	8	
108	A3	3	

No	Dln.	RA.	Dec.	mg.	
82	+20 2460	10 9 47.7	+20 43.1	8.2	✓
83	+21 2172	10 11 14.4	+21 17.0	8.5	✓
84	+21 2175	10 11 56.2	+21 8.3	8.2	✓ e
85	+20 2467	10 11 57.9	+20 30.0	2.0	✓ e
86	+20 2466	10 11 58.6	+20 12.7	5.9	✓ e
87	+20 2470	10 12 52.2	+20 15.3	8.5	✓ e
88	+20 2474	10 13 58.3	+20 31.8	9.0	✓ e
89	+19 2335	10 15 4.9	+19 51.2	7.7	✓ e
90	+20 2475	10 13 59.0	+20 47.3	9.0	✓ e
91	+20 2481	10 16 0.0	+20 18.4	9.1	✓ e
92	+20 2484	10 18 10.2	+20 7.7	8.7	✓ e
93	+21 2193	10 18 16.0	+21 1.4	8.7	✓ e
94	+21 2195	10 19 3.2	+21 10.0	7.7	✓ e
95	+20 2489	10 19 48.1	+20 52.3	8.6	✓
96	+20 2488	10 19 17.3	+20 33.5	8.6	✓
97	+20 2486	10 18 59.7	+20 14.6	8.5	✓
98	+20 2487	10 19 7.4	+20 6.2	6.8	✓
99	+19 2345	10 20 6.6	+19 19.4	8.6	✓
100	+19 2346	10 20 26.0	+19 39.9	8.5	✓
101	19 2349	1 1 3	19 40.6	9.2	✓
101a	+20 2204 +21 2204	10 22 23.2	+21 5.7 +21 51.7	8.8 8.8	✓
102	+21 2201	10 22 2.7	+21 25.2	8.6	✓
103	+22 2227	10 22 23.0	+22 17.9	8.5	✓
104	+21 2202	10 22 10.6	+21 33.8	8.2	✓
105	+21 2138	9 48 57.8	+21 28.5	8.6	✓
106	+21 2133	9 49 59.5	+21 40.5	8.5	✓
107	+22 2148	9 51 24.3	+22 1.6	6.7	✓
108	+22 2153	9 52 28.8	+22 16.1	8.7	✓

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March 6, 1912 (cont.)

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No.	Class	Qual.	Remarks
109	Q5	2	Focus very poor.
110	K	2	
111	B3	10	
112	Ko	3	
113	B5	2	
114	F5	3	
115	B5	1	
116	K	2	
117	Ko	5	
118	K	2	
119	K	2	
120	Ao	6	
121	Comp	7	Bright = F5 Ft = A Faint K = 8/10 of Ft.
122	Fo	6	
123	Fo	7	
124	G	1	
125	F8	2	
126	B5	5	
127	F8?	5	
128	F5	8	
129	F5	3	
130	F5	5	
131	B5	4	
132	Ko	2	
133	K	1	
134	Ko	5	
135	F8	4	

No.	DM.		RA.		Dec.		Mg.	
109	+22	2154	9	52	51.6	+22	32.3	9.0	✓
110	+22	2160	9	54	2.4	+22	24.5	8.6	✓
111	+22	2164	9	54	44.4	+22	39.7	5.3	✓
112	+23	2176	9	56	31.1	+23	16.0	7.8	✓
113	+22	2167	9	56	20.5	+22	52.5	8.8	✓
114	+22	2169	9	56	28.1	+22	8.7	8.6	✓
115	+22	2173	9	57	1.2	+22	31.7	8.5	✓
116	+22	2174	9	57	7.1	+22	40.4	8.2	✓
117	+22	2179	9	58	8.0	+22	13.2	7.5	✓
118	+21	2150	9	57	59.5	+21	15.8	8.9	✓
119	+21	2153	9	59	20.4	+21	57.9	8.3	✓
120	+22	2185	10	1	8.4	+22	30.8	7.8	✓
121	+21	2156	10	1	18.5	+21	2.3	6.5	✓
122	+21	2158	10	2	22.4	+21	39.2	7.0	✓
123	+21	2159	10	3	6.9	+21	26.1	6.5	✓
124	+22	2189	10	3	24.7	+22	27.7	8.8	✓
125	+22	2190	10	4	3.6	+22	2.8	8.7	✓
126	+20	2447	10	4	2.9	+20	49.4	7.7	✓
127	+22	2193	10	5	11.1	+22	9.2	7.8	✓
128	+21	2165	10	6	31.1	+21	54.5	6.5	✓
129	+22	2194	10	7	43.8	+22	10.2	8.3	✓
130	+22	2197	10	8	59.9	+22	39.0	7.5	✓
131	+22	2200	10	9	58.0	+22	42.2	7.8	✓
132	+22	2203	10	10	40.5	+22	50.8	8.6	✓
133	+22	2204	10	11	8.5	+22	47.4	8.7	✓
134	+22	2208	10	12	13.0	+22	43.9	7.5	✓
135	+22	2210	10	13	44.1	+22	8.1	9.0	✓

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March 6, 1912 (Cont.)
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No.	Class	Sub.	Remark
136	78	2	
137	K	1	
138	K2	3	
139	Q2	5	
140	Y5	4	
141	K	3	E
142	Q2	3	E
143	K0	3	E.
144	Y0	5	
145	Z0	5	
146	Y5	4	
147	Q5	4	E
148	Y0	3	
149	Q2	4	
150	A	3	E
151	Y0	8	
152	Z	10	
153	Z5	8	
154	K0	5	E
155	K	3	E
156	Z5	4	E
157	Y5	3	

Time 4.05

No.	Dm.	Ra.	Dec.	Mg.	
136	+22 2212	10 13 50.8	+22 4.6	9.0	✓
137	+21 2181	10 14 15.1	+21 57.6	9.1	✓
138	+22 2217	10 19 24.5	+22 21.3	8.2	✓
139	+23 2163	9 49 59.9	+23 22.5	7.5	✓
140	+22 2147	9 50 23.4	+22 59.3	8.2	✓
141	+23 2164	9 51 15.5	+23 57.6	8.2	✓
142	+24 2163	9 52 30.4	+24 14.7	9.0	✓
143	+24 2167	9 53 43.8	+24 41.4	8.0	✓
144	+25 2203	10 0 20.2	+25 1.0	7.3	✓
145	+24 2185	10 0 38.3	+24 12.1	7.1	✓
146	+24 2189	10 2 27.8	+24 36.0	7.8	✓
147	+24 2192	10 3 35.9	+24 58.3	8.4	✓
148	+24 2193	10 3 46.1	+24 25.4	8.3	✓
149	+23 2190	10 5 1.5	+23 34.3	8.3	✓
150	+24 2203	10 6 43.1	+24 36.0	8.8	✓
151	+24 2207	10 8 30.2	+24 14.3	7.0	✓
152	+24 2209	10 8 37.3	+24 8.3	8.5	✓
153	+23 2207	10 9 16.1	+23 58.3	6.5	✓
154	+25 2231	10 10 56.0	+25 27.0	7.0	✓
155	+25 2232	10 11 7.9	+25 5.1	8.2	✓
156	+25 2240	10 14 35.3	+25 19.1	7.9	✓
157	+23 2213	10 11 37.1	+23 14.0	7.9	✓
158					

Identified by C.H.R. April 3, 1912.
Checked by J.G.M. April 6, 1912.

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March 7, 1912

Time: 2 hrs. 50 min. I 37549

No.	Class	Int.	Remark
1	K0	5	
2	K0	4	E.
3	F	5	E.
4	Bq	7	E.
5	A2	7	E.
6	F2	7	
7	B8	2	Difficult
8	g5	2	
9	g	2	
10	Bq	8	
11	A	2	
12	g5	4	
13	g0	3	
14	g5	4	
15	K	1	
16	A0	6	
17	F5	8	
18	A0	4	
19	B5	9	
20	F5	2	E.
21	g5	4	
22	F5	5	
23	F8	3	
24	F2	3	
25	F8	3	
26	K0	5	
27	B5	7	

No	Dm.	RA	Dec	Mg.	
1	−0 6.02 5.89	3 41 13.41	−0 1 0.24	6.0	✓
2	−1 5.39	3 41 57.7	−1 5 3.2	7.5	✓
3	−1 5.44	3 42 55.2	−1 5 1.1	7.0	✓
4	−1 5.48	3 44 47.8	−1 3 4.3	7.0	✓
5	−1 5.49	3 44 57.9	−1 5.0	7.3	✓
6	+1 6.67	3 43 15.1	+1 7.3	7.0	✓
7	+0 6.64	3 43 42.4	+0 29.9	8.2	✓
8	+1 6.68	3 43 36.2	+1 17.5	8.0	✓
9	+1 6.71	3 45 17.7	+1 18.4	8.0	✓
10	+1 6.73	3 45 58.5	+1 40.7	6.7	✓
11	+1 6.76	3 46 35.5	+1 44.4	8.2	✓
12	+1 6.79	3 47 14.6	+1 39.0	8.0	✓
13	+0 6.75	3 46 53.7	+0 50.5	7.6	✓
14	+2 6.28	3 49 3.5	+2 38.3	7.0	✓
15	+1 6.85	3 50 52.9	+1 2.2	7.4	✓
16	+1 6.89	3 52 13.5	+1 21.9	8.2	✓
17	−0 6.32	3 55 11.6	−0 39.8	6.2	✓
18	−1 5.74	3 55 15.9	−1 12.3	7.2	✓
19	−1 5.72	3 54 13.2	−1 57.4	5.5	✓
20	−2 7.74	3 54 56.8	−2 42.3	8.0 8.2	✓
21	−1 5.81	3 57 54.9	−1 24.6	7.8	✓
22	−0 6.40	3 57 55.5	−0 57.5	7.5	✓
23	+1 6.99	3 57 10.6	+1 17.2	8.2	✓
24	+0 7.01	4 1 14.7	+0 23.8	8.2	✓
25	−0 6.48	4 1 45.4	−0 13.5	8.0	✓
26	−0 6.53	4 4 7.7	−0 47.9	7.2	✓
27	+1 6.08	4 6 20.4	−1 31.3	7.5	✓

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No.	Class	Int.	Remark
28	G5	4	
29	A2	2	
30	A0	7	E.
31	F5	4	E.
32	A3	3	
33	F0	4	
34	B9	2	
35	A	2	
36	A0	8	
37	F8	2	
38	A0	3	
39	A	1	
40	B8	6	
41	F0	5	
42	F5	8	
43	B9	8	
44	A0	10	
45	B3	8	
46	F5	2	
47	F2	6	
48	K5	2	
49	F	2	
50	K0	2	
51	G	3	
52	K0	3	
53	A0	6	
54	B9	6	

No	DM	RA	Dec	Mg	
28	+0 710	4 4 43.0	+0 21.6	7.5	✓
29	−0 666	4 4 14.4	−0 22.6	7.5	✓
30	+0 721	4 8 37.0	+0 4.8	7.5	✓
31	+2 602	3 37 30.5	+2 9.4	7.5	✓
32	+2 618	3 44 12.0	+2 19.7	8.3	✓
33	+4 601	3 46 48.8	+4 45.3	8.0	✓
34	+4 602	3 47 3.9	+4 30.8	8.5	✓
35	+5 559	3 47 9.8	+5 9.0	8.3	✓
36	+5 564	3 49 19.8	+5 36.4	7.0	✓
37	+5 567	3 50 2.7	+5 18.2	8.3	✓
38	+4 614	3 51 56.5	+4 12.3	8.2	✓
39	+4 619	3 53 8.6	+4 40.3	8.5	✓
40	+3 552	3 54 53.4	+3 25.8	7.7	✓
41	+2 640 X	3 55 47.9	+2 46.7	7.8	✓
42	+2 645	3 56 34.8	+2 25.5	5.8	✓
43	+3 554	3 56 26.0	+3 26.8	8.7	✓
44	+5 581	3 55 27.2	+5 35.2	4.0	✓
45	+5 584	3 56 3.7	+5 1.7	6.2	✓
46	+3 563	4 0 15.8	+3 54.2	8.6	✓
47	+2 655	4 2 9.3	+2 56.2	7.1	✓
48	+1 713	4 3 38.0	+1 56.8	8.2	✓
49	+1 711	4 3 29.5	+1 34.8	7.0	✓
50	+1 719	4 5 27.0	+1 32.4	7.8	✓
51	+1 722	4 6 53.8	+1 17.1	8.0	✓
52	+2 661	4 6 48.6	+2 30.3	8.5	✓
53	+2 667	4 7 32.8	+2 53.1	8.5	✓
54	+3 570	4 7 31.5	+3 30.4	8.5	✓

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No.	Class	Int.	Remark
55	Ao	6	
56	B8	10	E.
57	K0	7	E.
58	A	6	E.
59	B9	9	
60	F5	3	
61	F	3	
62	A	2	
63	F0	5	
64	F0	8	
65	B9	7	
66	F0	9	
67	K	2	
68	F0	9	
69	?	4	Nearly all superposed 70.
70	?	5	Focus poor
71		5	Focus too poor

Time: 22 hrs 4 mins.

No	DM	RA	Dec	Mg	
55	+3 5°76	4 7 49.3	+3 38.9	8.2 ✓	C
56	+5 5°39	3 37 58.9	+5 35.4	5.7 ✓	C
57	+6 5°83	3 38 26.0	+6 20.7	6.7 ✓	C
58	+6 5°82	3 37 57.2	+6 44.7	7.3 ✓	C
59	+6 5°94	3 44 16.9	+6 5.7	6.1 ✓	
60	+7 5°60	3 45 25.7	+7 20.6	var. ✓	
61	+6 6°05	3 48 51.2	+6 17.0	7.8 ✓	
62	+6 6°07	3 49 52.2	+6 27.4	8.5 ✓	
63	+7 5°89	3 55 9.6	+7 43.6	7.8 ✓	
64	+7 5°72	3 56 7.1	+7 47.6	5.7 ✓	C
65	+6 6°37	4 1 41.9	+6 21.1	7.2 ✓	
66	+5 6°01	4 3 36.9	+5 8.6	6.6 ✓	
67	+4 6°52	4 5 3.6	+4 39.2	8.3 ✓	E
68	+7 6°17	4 5 44.8	+7 20.7	5.5 ✓	E
69	+5 6°13	4 7 43.4	+5 47.7	8.5 ✓	
70	+5 6°14	4 7 46.4	+5 48.5	7.5 ✓	
71	+4 6°68	4 9 30.9	+4 37.9	8.2 ✓	

Identified by C.L.A. April 1, 1912

Checked by J.C.M. April 5, 1912

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March 7. 1912

Time: 22 hrs. 20 min

I 37553

No.	Class	Int.	Remark
1	K0	5	
2	Bq	6	
3	Bq	6	
4	K0	4	
5	g	3	
6	A0	3	
7	Bq	6	
8	A2	8	
9	g5	8	
10	g	48	
11	K0	8	
12	g5	5	E.
13	Kb	4	E.
14	A2	5	E.
15	A	4	E.
16	F5	6	
17	A	3	
18	Bq	4	
19	F8	3	
20	K0	6	
21	A	3	Uncertain, due to portion from 48 to right here. superposed on 20
22	A	4	E.
23	F8	8	
24	g5	8	
25	Bq	8	
26	g5	4	
27	g	2	Focus poor

1	+5°	1759	7	35.7	+5	17.0	7.1	✓
2	+6°	1768	7	35.9	+6	37.3	8.3	✓
3	+5°	1785	7	39.3	+5	16.8	7.7	✓
4	+5°	1790	7	40.4	+5	46.1	7.0	✓
5	+6°	1789	7	41.4	+6	6.3	8.4	✓
6	+6°	1790	7	41.8	+6	0.9	8.3	✓
7	+6°	1792	7	42.7	+6	6.3	8.0	✓
8	+6°	1795	7	43.1	+6	12.9	7.7	✓
9	+4°	1826	7	41.4	+4	40.0	7.1	✓
10	+5°	1801	7	41.7	+5	26.9	8.3	✓
11	+4°	1833	7	43.2	+4	49.0	7.1	✓
12	+3°	1818	7	43.2	+3	38.8	6.7	✓
13	+3°	1824	7	44.5	+3	39.1	7.5	✓
14	+3°	1827	7	45.1	+3	46.4	8.0	✓
15	+4°	1843	7	44.8	+4	12.3	8.5	✓
16	+5°	1814	7	44.3	+5	43.7	8.1	✓
17	+5°	1824	7	46.1	+5	46.8	8.5	✓
18	+5°	1829	7	46.8	+5	53.7	8.2	✓
19	+5°	1836	7	47.9	+5	23.4	8.7	✓
20	+4°	1860	7	48.8	+4	51.2	7.0	✓
21	+4°	1859	7	48.7	+4	37.7	8.2	✓
22	+4°	1849	7	46.4	+4	7.4	8.5	✓
23	+5°	1844	7	49.8	+5	40.2	8.2	✓
24	+5°	1845	7	50.4	+5	24.1	8.2	✓
25	+6°	1840	7	51.1	+6	1.0	7.4	✓
26	+5°	1848	7	51.6	+6	39.1	8.1	✓
27	+5°	1849	7	51.7	+6	54.7	8.6	✓

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H 37 55 3

No.	Class	Int.	Remark
28	Fo	4	
29	a	2	Another star superposed ?
30	K5	1	Maybe Ma
31	Ao	3	
32	Ao	10	
33	Ao	3	
34	Ko	3	
35	g	3	
36	a	3	E.
37	B8	5	Lines rather narrow.
38	a	3	
39	a	2	
40	g5	2	
41	g	2	
42	B8	5	
43	B9	6	
44	B9	6	
45	a	3	
46	Ko	3	
47	K	3	
48	A5	4	
49	Ao	3	
50	g	1	Partly superposed on 51
51	K	2	
52	g5	3	
53	B9	6	
54	B9	6	E.

28	+6°	1841	7	51.4	+6	42.6	8.5 ✓
29	+6°	1843	7	52.0	+6	23.0	9.0 ✓
30	+5°	1852	7	52.0	+5	16.9	8.3 ✓
31	+5°	1855	7	53.2	+5	25.3	8.8 ✓
32	+5°	1857	7	53.6	+5	16.0	6.5 ✓
33	+5°	1859	7	54.1	+5	36.1	8.3 ✓
34	+4°	1880	7	54.3	+4	56.3	8.0 ✓
35	+4°	1882	7	54.8	+4	33.2	8.5 ✓
36	+3°	1883	7	56.4	+3	47.5	8.0 ✓
37	+4°	1896	7	57.3	+4	32.8	8.0 ✓
38	+7°	1897	7	53.7	+7	18.4	9.0 ✓
39	+6°	1856	7	54.4	+6	33.1	9.0 ✓
40	+6°	1858	7	54.6	+6	59.8	8.6 ✓
41	+7°	1904	7	55.6	+7	31.9	8.3 ✓
42	+6°	1864	7	56.1	+6	48.9	8.2 ✓
43	+6°	1867	7	57.1	+6	35.7	8.3 ✓
44	+6°	1869	7	57.7	+6	14.1	8.0 ✓
45	+5°	1869	7	57.6	+5	50.3	8.7 ✓
46	+5°	1872	7	58.4	+5	58.4	8.0 ✓
47	+5°	1883	8	0.8	+5	47.4	7.8 ✓
48	+6°	1881	8	1.8	+6	21.0	7.7 ✓
49	+5°	1893	8	2.5	+5	41.0	8.5 ✓
50	+6°	1885	8	3.4	+6	46.8	8.7 ✓
51	+6°	1886	8	3.5	+6	49.5	8.5 ✓
52	+6°	1889	8	3.9	+6	35.8	8.2 ✓
53	+5°	1904	8	5.2	+5	21.6	8.0 ✓
54	+6°	1900	8	6.1	+6	44.3	7.3 ✓

Eight made out

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Π 37 55 3

No.	Class	Int.	Remark
55	A0	6	
56	A	4	E.
57	A2	6	
58	A2	3	
59	g5	3	
60	A0	9	
61	F8	4	
62	F0	4	
63	A5	1	
64	Bq	6	
65	F8	5	
66	A0	7	
67	A5	2	
68	g	2	Difficult
69	A3	3	
70	F0	4	
71	Bq	4	
72	F8	4	
73	g5	2	
74	Bq	3	
75	F5	2	
76	g5	5	
77	Bq	8	
78	g5	3	
79	A	2	
80	A3	5	
81	g0	4	

55	+8°	2005	8	6.1	+8	9.8	7.8 ✓
56	+7°	1816	7	34.7	+7	47.8	9.0 ✓
57	+9°	1753	7	35.9	+9	56.7	8.2 ✓
58	+10°	1619	7	37.7	+10	11.9	9.0 ✓
59	+10°	1620	7	37.8	+10	44.4	8.5 ✓
60	+11°	1670	7	38.3	+11	7.6	5.0 ✓
61	+9°	1765	7	39.6	+9	58.5	7.8 ✓
62	+9°	1766	7	39.6	+9	19.4	7.5 ✓
63	+7°	1834	7	39.4	+7	26.4	8.7 ✓
64	+7°	1837	7	40.0	+7	41.9	7.8 ✓
65	+7°	1838	7	40.6	+7	7.3	8.3 ✓
66	+7°	1844	7	43.2	+7	48.1	7.5 ✓
67	+7°	1848	7	44.1	+7	27.3	8.5 ✓
68	+7°	1854	7	45.2	+7	5.0	8.3 ✓
69	+7°	1862	7	47.1	+7	17.8	8.4 ✓
70	+7°	1863	7	47.3	+7	22.6	8.2 ✓
71	+7°	1864	7	47.4	+7	32.4	8.5 ✓
72	+6°	1823	7	48.2	+6	53.8	8.1 ✓
73	+6°	1822	7	48.1	+6	27.0	8.7 ✓
74	+6°	1826	7	48.6	+6	11.8	8.5 ✓
75	+6°	1828	7	48.8	+6	47.3	8.2 ✓
76	+7°	1876	7	49.7	+7	13.4	7.5 ✓
77	+7°	1879	7	50.3	+7	35.5	6.8 ✓
78	+8°	1928	7	51.0	+8	50.8	7.5 ✓
79	+8°	1931	7	51.2	+8	32.6	8.7 ✓
80	+9°	1835	7	52.4	+9	22.0	8.2 ✓
81	+8°	1945	7	53.4	+8	46.8	7.5 ✓

Cards made up

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No.	Class	Int.	Remark
82	g	2	
83	F5	8	
84	K	2	
85	A5	4	
86	g5	3	
87	F2	5	
88	A3	4	
89	F0	4	
90	g5	6	
91	F0	4	
92	Bq	9	
93	g5	2	
94	A	2	E.
95	F	4	E.
96	g5	3	
97	g	5	E.
98	g	4	E.
99	K0	4	E.
100	A	3	
101	A	2	
102	A	2	
103	g5	2	
104	g	2	
105	F2	3	
106	g	2	
107	A	2	
108	F	2	

82	+8°	1941	7	53.0	+8	18.8	8.5 ✓
83	+9°	1843	7	54.0	+9	18.2	6.7 ✓
84	+9°	1850	7	54.9	+9	28.9	8.6 ✓
85	+8°	1958	7	56.2	+8	40.0	8.5 ✓
86	+8°	1963	7	57.6	+8	36.4	8.0 ✓
87	+7°	1921	7	59.5	+7	41.5	7.8 ✓
88	+8°	1974	8	0.4	+8	38.8	8.2 ✓
89	+8°	1980	8	1.2	+8	27.6	7.8 ✓
90	+9°	1892	8	2.4	+9	35.8	7.2 ✓
91	+10°	1787	8	3.2 5.6	+10	0. 7.4	8.5 7.2 ✓
92	+10°	1746	8	3.4	+10	16.2	6.5 ✓
93	+9°	1894	8	3.5	+9	43.3	7.8 ✓
94	+9°	1895	8	3.5	+9	9.2	8.5 ✓
95	+10°	1752	8	5.0	+10	0.6	8.0 ✓
96	+10°	1756	8	6.6	+10	37.4	8.2 ✓
97	+11°	1787	8	5.6	+11	17.4	7.3 ✓
98	+10°	1755	8	5.7	+10	49.3	8.0 ✓
99	+13°	1750	7	36.2	+13	12.7	7.0 ✓
100	+12°	1664	7	37.5	+12	5.4	8.6 ✓
101	+11°	1678	7	40.7	+11	28.1 30.3	8.6 ✓
102	+11°	1679	7	40.7	+11	30.3	8.6 ✓
103	+11°	1684	7	41.1	+11	10.4	8.3 ✓
104	+10°	1640	7	42.4	+10	52.9	8.5 ✓
105	+10°	1641	7	42.5	+10	7.7	8.0 ✓
106	+9°	1769	7	40.8	+9	50.2	8.8 ✓
107	+9°	1779	7	42.2	+9	15.6	8.7 ✓
108	+9°	1782	7	42.4	+9	5.6	8.5 ✓

Under magnifier

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No.	Class	Int.	Remark
109	K	2	
110	g^5	4	
111	F_0	4	
112	A	4	Nearly all superposed on 111. ~~Look up~~ Lookup on I 3387
113	A2	3	
114	A3	4	
115	A3	2	
116	g^5	6	
117	g	2	
118	g^5	3	
119	g^{1^0}	2	Bright line on g band. Must be a defect. Only one star on I 14613
120	F5	4	
121	g^5	3	
122	A	3	
123	K2	2	
124	A0	3	
125	A^5	5	
126	g^5	3	
127	g^5	4	
128	A0	3	
129	g^0	5	
130	g	2	
131	A	2	
132	A	3	
133	A0	4	
134	g^5	5	
135	F_0	2	

109	+9°	1805	7	45.9	+9	22.8	7.9✓
110	+9°	1813	7	47.3	+9	43.7	8.0✓
111	+9°	1815	7	47.6	+9	14.4	7.0✓
112	+9°	1816	7	47.6	+9	6.0	8.5✓
113	+7°	1878	7	48.9	+7	44.4	8.3✓
114	+9°	1822	7	48.9	+9	25.6	8.4✓
115	+8°	1921	7	48.9	+8	57.1	8.5✓
116	+9°	1824	7	49.4	+9	1.6	6.0✓
117	+10°	1677	7	50.8	+10	30.9	8.3✓
118	+10°	1682	7	51.5	+10	19.4	8.2✓
119	+10°	1684	7	52.0	+10	18.4	8.2✓
120	+10°	1694	7	52.5	+10	18.7	8.5✓
121	+10°	1701	7	53.8	+10	1.4	8.5✓
122	+10°	1708	7	54.9	+10	15.5	8.8✓
123	+10°	1710	7	55.3	+10	20.8	8.0✓
124	+10°	1711	7	55.6	+10	31.5	8.8✓
125	+11°	1743	7	56.3	+11	15.6	8.0✓
126	+10°	1716	7	56.4	+10	39.1	7.8✓
127	+10°	1721	7	57.1	+10	54.5	8.0✓
128	+10°	1723	7	57.7	+10	16.6	8.5✓
129	+9°	1860	7	56.6	+9	40.8	7.5✓
130	+9°	1861	7	56.8	+9	53.6	8.3✓
131	+9°	1869	7	58.1	+9	44.8	8.9✓
132	+9°	1872	7	59.1	+9	12.7	8.8✓
133	+10°	1725	7	58.9	+10	9.6	8.2✓
134	+10°	1727	7	59.2	+10	23.5	7.7✓
135	+10°	1728	7	59.3	+10	32.7	8.8✓

Circle made on

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No.	Class	Int.	Remark
136	Bq	4	
137	A2	3	
138	A	2	
139	A	0	E
140	K	1	
141	B8	6	
142	K0	5	
143	K0	4	
144	K0	3	
145	G5	2	
146	A2	2	
147	G5	2	
148	B9	8	
149	A0	5	
150	A	4	
151	Bq	5	
152	A0	4	
153	K0	4	
154	Bq	8	
155	K0	3	
156	K0	3	
157	K	2	
158	F8	6	
159	F5	2	
160	A5	2	
161	G0	3	
162	K0	2	

136	+9°	1876	7	59.8	+9	51.2	8.0
137	+10°	1738	8	1.1	+10	55.5	8.2
138	+11°	1777	8	3.6	+11	50.9	8.7
139	+11°	1779	8	3.8	+11	36.8	8.0
140	+11°	1784	8	4.7	+11	37.3	7.6
141	+11°	1785	8	4.8	+11	36.9	7.3
142	+13°	1772	7	40.9	+13	48.7	6.5
143	+13°	1775	7	41.5	+13	9.4	7.5
144	+12°	1685	7	41.6	+12	30.6	7.6
145	+11°	1693	7	43.4	+11	32.3	8.3
146	+10°	1649	7	44.1	+10	37.3	8.7
147	+11°	1708	7	45.6	+11	3.9	8.0
148	+10°	1662	7	47.8	+10	49.8	7.8
149	+11°	1717	7	48.3	+11	14.4	7.3
150	+12°	1717	7	48.4	+12	7.9	8.0
151	+12°	1721	7	48.9	+12	4.4	8.2
152	+12°	1738	7	52.3	+12	36.1	8.0
153	+13°	1816	7	52.5	+13	2.1	7.3
154	+13°	1817	7	52.8	+13	3.9	7.4
155	+13°	1824	7	54.9	+13	20.7	8.5
156	+12°	1748	7	54.5	+12	50.9	7.3
157	+12°	1749	7	54.5	+12	38.0	8.0
158	+12°	1754	7	55.5	+12	35.0	6.9
159	+11°	1740	7	55.3	+11	45.2	8.3
160	+11°	1747	7	57.2	+11	40.3	8.6
161	+12°	1759	7	56.3	+12	42.4	8.2
162	+12°	1762	7	56.9	+12	36.2	8.7

Corr made on

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I 37553

No.	Class	Int.	Remark
163	Bg	8	
164	Ko	3	
165	Ko	3	
166	F5	7	E.
167	Ko	5	
168	Ko	7	
~~169~~			

Time: 22 hrs. 57 min.

163	+13°	18 31	7	57.0	+13	32.2	5.8 v
164	+13°	18 32	7	57.5	+13	54.9	7.7 v
165	+13°	18 42	8	0.3	+13	34.1	8.0 v
166	+14°	18 31	8	0.6	+14	4.1	6.5 v
167	+12°	17 12	7	47.0	+12	56.7	7.3 v
168	+13°	18 11	7	51.5	+13	36.9	6.5 v

Identified by J. C. M. April 10, 1912.
Checked by A. M. C. April 13, 1912

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March 11, 1912

Time: 23 hrs 3 mins. B24 090 short disp.

No.	Class	Int.	Remark
.1	G5	5	E.
.2	F2	5	
.3	K0	8	
.4	A0	5	
.5	K0	7	
.6	G5	8	
.7	A2	6	
.8	G5	9	
.9	K5	10	
.10	G5	4	
.11	F8	10	
.12	F5	4	
13	A2	3	
.14	K2	4	
.15	F5	6	
.16	F8	3	
.17	K0	4	
.18	F8	6	
.19	F5	6	
.20	F0	4	
.21	K2	5	
.22	G5	3	
.23	K5	6	
.24	F0	3	
.25	G5	9	E.
.26	G5	6	
.27	F2	6	

1	-40°	568	2	7.9	-40	35.2	8.0	^V
2	-40°	574	2	10.0	-40	22.8	8.3	^V
3	-39°	679	2	14.3	-39	33.7	7.7	^V
4	-40°	589	2	14.9	-40	5.8	8.5	^V
5	-39°	684	2	15.6	-39	36.7	8.3	^V
6	-39°	689	2	16.8	-39	16.3	8.0	^V
7	-39°	690	2	16.8	-39	32.7	8.7	^V
8	-39°	695	2	17.5	-39	58.9	7.5	^V
9	-38°	797	2	17.9	-38	9.0	6.6	^V
10	-38°	798	2	18.3	-38	29.8	8.7	^V
11	-37°	915	2	19.3	-37	55.7	6.6	^V
12	-39°	701	2	19.9	-39	14.5	8.7	^V
13	-39°	703	2	20.1	-39	37.2	8.9	^V
14	-40°	619	2	21.7	-40	8.7	7.9	^V
15	-39°	716	2	23.7	-39	31.0	8.6	^V
16	-39°	738	2	26.9	-39	29.9	9.0	^V
17	-39°	741	2	27.8	-39	7.9	8.5	^V
18	-39°	743	2	28.1	-39	54.0	8.5	^V
19	-39°	746	2	28.6	-39	43.5	8.7	^V
20	-39°	751	2	29.7	-39	11.4	8.7	^V
21	-38°	858	2	30.1	-38	20.7	8.0	^V
22	-38°	855	2	29.2	-38	3.1	8.6	^V
23	-37°	962	2	28.5	-37	58.1	7.5	^V
24	-37°	960	2	27.9	-37	44.1	8.6	^V
25	-36°	957	2	27.1	-36	59.0	6.4	^V
26	-39°	757	2	31.3	-39	16.0	8.0	^V
27	-39°	758	2	32.1	-39	27.7	8.4	^V

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B 24090 short disp.

No.	Class	Int.	Remark
.28	F8	10	Burned out
.29	A5	5	
.30	g0	6	
.31	g	10	
.32	A	4	
33	g	6	
.34	g	8	
35	~~f~~ g5	5	
.35	~~f~~ g5	5	
.36	g0	5	
.37	A	4	
.38	K	2	
.39	F8	3	
.40	g	10	Burned out
.41	g5	3	
.42	K5	7	Maybe Ma
.43	F0	3	
.44	g0	4	
.45	g5	6	
.46	g5	10	
.47	K0	3	
.48	A2	8	
.49	F5	3	
.50	g5	3	
.51	K2	2	
.52	F5	10	
.53	K0	7	
.54	F5	6	

28	-38°	875	2	33.4	-38	31.6	6.4	^ ∨
29	-39°	778	2	36.6	-39	7.5	8.6	^ ∨
30	-39°	784	2	37.0	-39	24.3	8.0	^ ∨
31	-38°	894	2	37.1	-38	54.9	6.1	^ ∨
32	-38°	890	2	36.5	-38	19.1	9.0	^ ∨
33	-38°	899	2	38.4	-38	27.6	8.0	^ ∨
34	-38°	910	2	40.7	-38	40.9	7.7	^ ∨
35	-41°	613	2	7.8	-41	50.9	8.7	^ ∨
35	-38°	917	2	42.1	-38	15.5	8.5	^ ∨
~~38~~	~~-41~~	~~613~~	~~2~~	~~7.8~~	~~-41~~	~~50.9~~	~~8.7~~	^
36	-42°	757	2	7.9	-42	2.3	9.1	^ ∨
37	-42°	758	2	8.7	-42	21.5	9.2	^ ∨
38	-42°	760	2	8.8	-42	19.5	9.2	^ ∨
39	-42°	761	2	9.1	-42	17.5	9.3	^ ∨
40	-41°	621	2	9.5	-41	45.2	6.1	^ ∨
41	-41°	622	2	9.6	-41	17.2	8.7	^ ∨
42	-41°	626	2	10.4	-41	39.3	7.0	^ ∨
43	-42°	769	2	11.0	-42	22.6	9.6	^ ∨
44	-42°	774	2	12.0	-42	33.2	9.0	^ ∨
45	-42°	784	2	14.2	-42	36.0	8.5	^ ∨
46	-42°	785	2	14.4	-42	25.4	6.6	^ ∨
47	-42°	787	2	15.1	-42	29.6	8.5	^ ∨
48	-41°	658	2	15.2	-41	57.9	8.5	^ ∨
49	-41°	661	2	16.0	-41	24.5	9.0	^ ∨
50	-40°	594	2	16.7	-40	44.2	9.3	^ ∨
51	-41°	668	2	17.3	-41	5.0	9.0	^ ∨
52	-41°	681	2	19.5	-41	24.8	6.3	^ ∨
53	-41°	693	2	21.8	-41	55.9	8.3	^ ∨
54	-41°	697	2	22.8	-41	44.7	9.0	^ ∨

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March 11, 1912
1324090 short disp.

No.	Class	Int.	Remark
.55	G5	3	
.56	G5	6	
.57	K2	2	
.58	F8	3	
.59	F5	3	
.60	F8	2	
.61	K0	3	
.62	K0	5	
.63	F5	5	
.64	~~F8~~ G0	4	
.65	F8	4	
.66	K2	5	
.67	G	10+	Burned out.
.68	G	3	
.69	G5	5	
.70	F5	4	
.71	G5	4	
.72	G5	2	
.73	K0	7	
.74	F0	3	
.75	G0	9	
.76	K2	4	
.77	F5	4	
.78	K5	5	
.79	F2	7	
80	A	10	Burned out
.81	K2	2	

55	-40°	618	2	21.7	-40	42.2	8.7	^	V
56	-40°	628	2	23.9	-40	59.3	7.5	^	V
57	-40°	639	2	26.4	-40	52.8	8.5	^	V
58	-40°	643	2	27.0	-40	52.1	9.0	^	V
59	-40°	650	2	27.9	-40	36.1	8.9	^	V
60	-40°	642	2	26.7	-40	16.6	8.9	^	V
61	-40°	664	2	30.2	-40	32.1	9.0	^	V
62	-40°	667	2	30.6	-40	25.7	8.0	^	V
63	-40°	679	2	33.3	-40	34.1	8.7	^	V
64	-40°	678	2	33.3	-40	58.5	9.2	^	V
65	-40°	681	2	33.8	-40	51.4	9.0	^	V
66	-40°	687	2	34.9	-40	32.6	8.3	^	V
67	-40°	689	2	35.7	-40	23.3	4.2	^	V
68	-40°	692	2	36.2	-40	7.5	9.1	^	V
69	-41°	740	2	32.4	-41	17.0	8.2	^	V
70	-41°	743	2	32.8	-41	23.0	9.0	^	V
71	-41°	754	2	34.6	-41	15.9	8.5	^	V
72	-41°	745	2	33.5	-41	42.6	9.3	^	V
73	-42°	876	2	33.4	-42	5.7	7.1	^	V
74	-42°	873	2	32.9	-42	26.8	10	^	V
75	-42°	875	2	33.4	-42	26.7	7.0	^	V
76	-42°	894	2	36.3	-42	34.2	8.6	^	V
77	-42°	895	2	36.7	-42	13.0	9.0	^	V
78	-41°	760	2	36.0	-41	50.3	7.4	^	V
79	-41°	767	2	38.2	-41	46.6	8.6	^	V
80	-41°	769	2	38.5	-41	3.5	6.3	^	V
81	-40°	709	2	39.1	-40	48.5	8.5	^	V

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March 11, 1912
B 2.4090 short disp.

No.	Class	Int.	Remark
.82	G	6	Focus poor
.83	A5	3	
.84	K5	6	
.85	F5	7	
.86	F8	6	Focus poor
.87	K0	5	
.88	A	10+	Burned out
Time: 23 hrs. 20 min.			
" 23 hrs. 35 min.			
.89	K0	7	
.90	F8	4	
.91	K0	3	
.92	K0	4	
.93	K	9	
.94	K0	4	
.95	K0	4	
.96	F5	7	
.97	K0	9	
.98	F5	4	
.99	K0	6	
100	K0	4	
101	K0	8	
102	K0	5	
103	K	10	
104	F5	4	
105	G0	4	
106	G5	3	

82	−40°	716	2	40.9	−40	15.0	7.7	^ V
83	−41°	773	2	40.1	−41	29.5	8.7	^ V
84	−41°	777	2	40.3	−41	49.9	7.8	^ V
85	−41°	788	2	40.8	−41	45.8	8.0	^ V
86	−41°	792	2	41.9	−41	29.2	7.9	^ V
87	−42°	913	2	40.2	−42	24.0	8.0	^ V
88	−43°	814	2	35.0	−43	25.7	5.0	^ V
89	−43°	819	2	37.4	−43	4.0	7.3	^ V
90	−43°	829	2	39.1	−43	22.0	9.1	^ V
91	−43°	830	2	39.2	−43	19.3	8.9	^ V
92	−42°	914	2	40.2	−42	57.6	8.9	^ V
93	−43°	835	2	40.8	−43	22.0	7.0	^ V
94	−43°	846	2	42.1	−43	31.7	8.4	^ V
95	−44°	666	2	10.0	−44	8.2	8.6	^ V
96	−44°	669	2	10.6	−44	15.2	8.7	^ V
97	−43°	696	2	11.5	−43	50.7	7.4	^ V
98	−43°	697	2	11.6	−43	31.8	9.0	^ V
99	−43°	698	2	11.7	−43	30.3	7.7	^ V
100	−44°	680	2	13.4	−44	31.2	8.8	^ V
101	−44°	691	2	15.5	−44	37.9	7.9	^ V
102	−44°	698	2	17.3	−44	11.2	9.0	^ V
103	−43°	724	2	17.3	−43	46.2	6.5	^ V
104	−43°	723	2	17.2	−43	33.0	9.0	^ V
105	−43°	725	2	17.4	−43	26.4	8.9	^ V
106	−42°	806	2	18.2	−42	56.3	9.6	^ V

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March 11, 1912
B24090 short disp.

No.	Class	Int.	Remark
.107	A3	8	
.108	A5	10	
.109	G5	3	
.110	A3	3	
.111	F2	9	
.112	G0	9	
.113	F5	3	
.114	G5	4	
.115	G5	3	
.116	K	2	
.117	F8	3	
.118	G5	3	
.119	K2	2	
.120	F0	7	
.121	A3	3	
.122	K2	2	
.123	K5	3	
.124	G0	3	
.125	K2	2	
.126	G0	2	
.127	G5	3	
.128	F8	2	
.129	Mb	10	
130	F8	4	
.131	A2	7	
.132	K0	3	
.133	K0	7	

107	−42°	802	2	18.0	−42	33.5	8.8	∧ ∨
108	−42°	813	2	20.0	−42	43.6	7.4	∧ ∨
109	−42°	817	2	20.8	−42	44.1	9.4	∧ ∨
110	−43°	786	2	20.0	−43	26.1	9.4	∧ ∨
111	−42°	829	2	23.4	−42	59.0	8.0	∧ ∨
112	−42°	834	2	24.3	−42	38.0	7.7	∧ ∨
113	−42°	832	2	24.0	−42	26.2	8.9	∧ ∨
114	−42°	836	2	24.8	−42	25.0	8.8	∧ ∨
115	−41°	705	2	24.5	−41	55.3	9.1	∧ ∨
116	−41°	713	2	26.2	−41	31.7	9.0	∧ ∨
117	−42°	847	2	26.6	−42	21.2	9.4	∧ ∨
118	−42°	841	2	25.6	−42	48.6	9.1	∧ ∨
119	−43°	755	2	24.7	−43	29.8	9.1	∧ ∨
120	−43°	762	2	25.3	−43	48.0	8.6	∧ ∨
121	−44°	756	2	26.4	−44	8.4	9.3	∧ ∨
122	−43°	773	2	27.2	−43	49.3	9.1	∧ ∨
123	−44°	775	2	29.6	−44	20.3	8.4	∧ ∨
124	−43°	783	2	29.6	−43	31.4	9.3	∧ ∨
125	−42°	860	2	29.4	−42	57.1	9.5	∧ ∨
126	−42°	861	2	29.6	−42	52.0	9.5	∧ ∨
127	−42°	859	2	29.1	−42	25.3	9.1	∧ ∨
128	−42°	863	2	30.0	−42	29.3	9.6	∧ ∨
129	−42°	865	2	30.2	−42	39.5	7.3	∧ ∨
130	−43°	789	2	31.0	−43	20.9	8.8	∧ ∨
131	−43°	798	2	32.3	−43	30.3	8.9	∧ ∨
132	−43°	795	2	31.9	−43	49.7	9.1	∧ ∨
133	−43°	802	2	32.9	−43	46.7	8.0	∧ ∨

Cassiopeiae

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March 11, 1912
B24090 chart disp.

No.	Class	Int.	Remark
.134	K_0	5	
.135	F_0	5	
.136	K_0	7	
.137	A_5	8	
.138	K_0	4	
.139	G_5	6	Nearly all superposed on 140
.140	A_5	8	
.141	K_0	7	
.142	K_0	8	
.143	K_0	8	
.144	G_5	6	
.145	G_0	3	
.146	K_5	3	
.147	K_2	4	
.148	A_5	6	
.149	G_5	6	
150	Int	4	
151.	G_5	8	

Time: 2 hrs 45 mins.

134	−44°	794	2	32.9	−44	19.0	9.0	∧ ∨
135	−44°	797	2	33.2	−44	25.7	9.2	∧ ∨
136	−44°	802	2	34.1	−44	41.6	8.0	∧ ∨
137	−44°	805	2	34.6	−44	20.4	8.4	∧ ∨
138	−45°	849	2	35.2	−45	1.3	8.9	∧ ∨
139	−45°	844	2	33.9	−45	15.0	7.9	∧ ∨
140	−45°	843	2	33.9	−45	16.6	7.4	∧ ∨
141	−44°	713	2	19.6	−44	53.7	8.2	∧ ∨
142	−45°	769	2	19.8	−45	42.2	7.9	∧ ∨
143	−45°	784	2	23.0	−45	36.4	7.7	∧ ∨
144	−45°	786	2	23.7	−45	35.0	8.3	∧ ∨
145	−44°	741	2	23.8	−44	47.2	9.1	∧ ∨
146	−44°	745	2	24.1	−44	40.4	8.4	∧ ∨
147	−45°	809	2	28.4	−45	21.6	8.2	∧ ∨
148	−45°	808	2	28.2	−45	44.7	8.7	∧ ∨
149	−45°	826	2	31.4	−45	18.4	8.1	∧ ∨
150	−46°	769	2	33.2	−46	9.8	8.6	∧ ∨
151	−45°	874	2	38.8	−45	11.0	7.5	∧ ∨

Identified by J. C. M. April 10, 1912.
Checked June 27 1912 L.T.W.

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March 12, 1912

Irwin 1255 B 23840 Slow disp

No.	Class	Dist.	Remark
1	G5	2	
2	K0	5	
3	A5	3	
4	F0	3	
5	F0	4	
6	G5	8	
7	A5	3	
8	F8	2	
9	G5	3	
10	F2	6	
11	G5	2	
12	G0	2	
13	F8	3	
14	F2	6	
15	K0	2	
16	F5	4	
17	K0	6	
18	A2	4	
19	A0	6	
20	F8	3	
12.58	21	A0	10	
	22	4	K0	Absorption strong at 4227

1	-31°	391	0	53.9	-31	56.3	8.5	↑√
2	-32°	396	0	53.8	-32	0.9	7.4	↑√
3	-32°	395	0	53.5	-32	38.0	9.0	↑√
4	-31°	385	0	58.4	-31	16.5	8.1	↑√
5	-30°	269	0	47.7	-30	52.1	8.1	↑√
6	-31°	325	0	46.9	-31	2.2	6.8	↑√
7	-31°	319	0	45.9	-31	38.4	8.3	↑√
8	-31°	315	0	45.5	-31	40.4	8.1	↑√
9	-32°	360	0	48.5	-32	19.6	8.6	↑√
10	-33°	337	0	48.0	-33	0.7	7.5	↑√
11	-32°	356	0	47.9	-32	54.6	8.9	↑√
12	-33°	344	0	48.8	-33	18.3	8.5	↑√
13	-33°	330	0	46.9	-33	20.6	8.7	↑√
14	-34°	337	0	48.7	-34	37.7	8.3	↑√
15	-34°	360	0	51.1	-34	32.7	8.4	↑√
16	-35°	320	0	50.8	-35	20.5	8.5	↑√
17	-35°	336	0	53.5	-35	18.6	7.5	↑√
18	-36°	327	0	50.4	-36	17.8	8.5	↑√
19	-36°	296	0	46.1	-36	25.6	8.3	↑√
20	-35° 20'	406	0	56.2	-32	18.1	8.3	↑√
21	-32°	410	0	56.5	-32	13.4	5.6	↑√

Identified March 22, 1912 J.C.M.

Checked May 14 1912 J.W.

22 -32°452 1 2.8 -32 50 7.7 46m Bc or 41

March 14, 1912

B 22068 Short drift

June 1.45

No.	class	Det.	Remark
1	K0	7	
2	B9	7	
3	F5	5	
4	A	9	
5	A	10	
6	B5	8	
7	A2	8	
8	B0	4	
9	B5	7	
10	B0	7	
11	Ma	7	
12	A3	10+	
13	B5	4	
14	F0	4	
15	Ma	8	
16	K2	2	
17	F8	8	
18	B	2	
19	B	2	
20	B0	3	
21	F8	4	
22	F8	5	
23	B5	6	
24	F0	2	
25	F8	3	
26	K0	5	
27	B5	7	

1	-63°	4931	23	43.0	-63	32.0	7.9	∧ |
2	-62°	6456	23	50.9	-62	27.5	7.6	∧ |
3	-62°	6459	23	52.3	-62	17.0	7.9	∧ √
4	-63°	4938	23	49.6	-63	34.1	7.4	∧ √
5	-63°	4940	23	50.8	-63	39.2	6.4	∧ √
6	-63°	4941	23	51.8	-63	42.1	7.6	∧ √
7	-63°	4944	23	55.0	-63	37.2	7.6	∧ √
8	-61°	6795	23	59.1	-61	55.1	8.5	∧ √
9	-62°	6468	23	59.2	-62	0.5	8.0	∧ √
10	-63°	4949	23	58.8	-63	32.4	8.3	∧ √
11	-63°	5	0	1.3	-63	0.7	8.8	∧ √
12	-62°	9	0	3.6	-62	59.6	6.7	∧ √
13	-62°	14	0	6.5	-62	0.7	8.4	∧ √
14	-62°	13	0	6.2	-62	18.1	8.5	∧ √
15	-63°	19	0	8.2	-63	28.0	8.4	∧ √
16	-63°	23	0	10.1	-63	51.8	9.1	∧ √
17	-64°	17	0	12.4	-64	10.1	7.8	∧ √
18	-64°	16	0	12.3	-64	21.6	9.1	∧ √
19	-63°	31	0	14.8	-63	59.9	9.2	∧ √
20	-63°	33	0	16.1	-63	58.8	9.2	∧ √
21	-64°	23	0	16.6	-64	22.2	8.9	∧ √
22	-64°	27	0	19.1	-64	38.6	8.6	∧ √
23	-64°	30	0	19.8	-64	42.1	8.4	∧ √
24	-62°	18	0	9.7	-62	14.1	9.1	∧ √
25	-62°	19	0	9.8	-62	29.4	9.0	∧ √
26	-62°	25	0	14.5	-62	23.6	8.6	∧ √
27	-63°	35	0	17.7	-63	7.3	7.8	∧ √

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March 14, 1912

B 22068 Short disp

No.	class	Int.	Remark
28	F2	7	
29	F5	2	
30	K2	2	
31	G	2	
32	F5	3	
33	F5	2	
34	B9	3	
35	B	2	
36	B	10+	Burned out
37	A	10+	"
38	B5	4	
39	K2	3	
40	K5	5	
41	K	2	
42	F5	3	
43	G	2	
44	K	2	
45	F5	10	
46	F0	5	
47	K0	3	
48	K5	3	
49	Q3	3	
50	Q5	3	
51	F8	3	
52	K2	3	
53	K0	3	
54	F6	7	

28	-62°	31	0	19.1	-62	54.0	8.2	∧	∫	
29	-62°	32	0	19.5	-62	48.4	9.0	∧	∫	
30	-62°	33	0	20.2	-62	13.7	9.0	∧	∫	
31	-62°	38	0	23.9	-62	10.5	8.8	∧	∫	
32	-62°	43	0	25.8	-62	2.2	8.8	∧	∫	
33	-61°	26	0	26.1	-61	38.0	9.1	∧	∫	
34	-61°	27	0	26.5	-61	32.0	8.8	∧	∫	
35	-61°	28	0	26.7	-61	21.8	9.2	∧	∫	
36	-63°	50	0	25.8	-63	38.9	3.8	∧	∫	
37	-63°	52	0	27.0	-63	43.1	5.1	∧	∫	
38	-63°	56	0	28.7	-63	45.1	8.8	∧	∫	
39	-64°	49	0	27.8	-64	21.9	9.2	∧	∫	
40	-64°	51	0	29.2	-64	22.0	9.2	∧	∫	
41	-64°	47	0	27.6	-64	35.9	9.4	∧	∫	
42	-63°	64	0	32.7	-63	10.0	9.0	∧	∫	
43	-63°	70	0	37.8	-63	11.9	9.4	∧	∫	
44	-63°	69	0	37.7	-63	26.9	9.8	∧	∫	
45	-63°	72	0	39.1	-63	10.9	6.6	∧	∫	
46	-63°	75	0	40.9	-63	21.5	7.5	∧	∫	
47	-63°	76	0	41.5	-63	24.5	8.6	∧	∫	
48	-62°	63	0	41.1	-62	45.5	9.0	∧	∫	
49	-62°	66	0	43.4	-62	24.6	8.8	∧	∫	
50	-61°	38	0	43.7	-61	43.9	8.8	∧	∫	
51	-61°	34	0	38.1	-61	22.1	8.8	∧	∫	
52	-62°	56	0	36.6	-62	3.0	9.2	∧	∫	
53	-62°	55	0	35.9	-62	12.0	9.1	∧	∫	
54	-61°	44	0	47.7	-61	45.2	7.8	∧	∫	

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March 14, 1912 (cont.)

B 22068 Short disp.

No.	Class	Exts.	Remark
55	K	2	
56	G	3	
57	Mb-	10	
58	Ka	6	
59	G	2	
60	F5	6	
61	G5	3	
62	F2	7	
63	F0	7	
64	Ma	7	
65	F8	4	
66	F5-	3	
67	B	10+	Burnt with Mayer K
68	G5	4	
69	G0	6	
70	F5-	5	
71	F0	7	
72	K0	9	
73	A2	6	
74	K0	7	
75	A2	4	
76	K	2	

Trine 2.00

cont. in 127,184

55	-62°	70	0	47.2	-62	14.6	9.4	^	J
56	-63°	80	0	47.9	-63	14.4	9.2	^	J
57	-63°	83	0	48.4	-63	33.0	7.8	^	J
58	-63°	73	0	39.5	-63	52.8	8.3	^	J
59	-63°	74	0	40.7	-63	58.3	9.2	^	J
60	-64°	4396	23	57.3	-64	17.7	8.6	^	J
61	-64°	4394	23	57.0	-64	25.7	9.2	^	J
62	-64°	4404	23	59.9	-64	56.2	8.2	^	J
63	-63°	10	0	3.8	-63	59.5	8.2	^	J
64	-64°	3	0	3.4	-64	17.0	8.6	^	J
65	-64°	5	0	4.4	-64	19.7	8.7	^	J
66	-64°	12	0	10.3	-64	44.0	9.1	^	J
67	-65°	13	0	13.6	-65	36.3	5.1	^	J
68	-65°	16	0	15.0	-65	48.4	8.5	^	J
69	-65°	20	0	17.2	-65	48.8	7.9	^	J
70	-66°	26	0	19.3	-66	5.5	8.0	^	J
71	-65°	35	0	22.6	-65	25.3	7.8	^	J
72	-65°	58	0	31.1	-65	48.8	7.8	^	J
73	-65°	67	0	36.3	-65	11.8	8.2	^	J
74	-65°	73	0	38.0	-65	30.2	8.6	^	J
75	-64°	68	0	36.3	-64	37.5	9.0	^	J
76	-64°	71	0	39.4	-64	38.6	9.4	^	J

Identified March 22, 1912 J. C. M.

Checked May 14 1912 J. D. W.

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March 14, 1921

Time 2:03

B 3837 0 Short def.

Nor.	Class	Dist.	Remarks
1	G5	8	
2	F5	8	
3	K0	8	
4	K	3	
5	G5	7	
6	F2	5	
7	Q2	5	
8	K0	4	
9	G	2	
10	K0	3	
11	Q2	10	
12	K0	5	
13	K0	3	
14	K0	4	
15	F0	5	
16	Q2	7	
17	K0	2	
18	F2	4	
19	G	2	
20	F0	5	
21	K0	3	
22	K2	4	
23	F5	8	
24	M	3	
25	K	2	
26	K	2	
27	F0	8	

1	-65°	201	2	50.7	-65	58.0	7.6	J
2	-65°	203	2	51.7	-65	24.5	7.3	✓
3	-64°	206	2	52.0	-64	56.6	7.7	J
4	-64°	205	2	51.2	-64	50.9	9.0	✓
5	-64°	207	2	52.3	-64	30.6	7.8	J
6	-64°	208	2	52.5	-64	32.8	8.0	J
7	-64°	210	2	53.8	-64	20.2	8.2	✓
8	-64°	213	2	54.7	-64	21.3	8.6	✓
9	-64°	212	2	54.5	-64	30.8	8.7	J
10	-64°	214	2	55.3	-64	46.3	8.9	J
11	-64°	215	2	56.4	-64	34.1	5.3	✓
12	-64°	216	2	57.3	-64	7.5	8.2	✓
13	-64°	219	2	58.0	-64	0.7	9.3	✓
14	-63°	204	2	59.0	-63	59.4	8.6	✓
15	-63°	207	3	1.0	-63	51.7	8.0	J
16	-64°	210	2 3	0.2	-64	21.5	7.6	✓
17	-64°	222	3	1.8	-64	42.0	9.1	
18	-65°	212	3	2.3	-65	1.2	8.8	✓
19	-65°	213	3	2.5	-65	4.9	9.0	✓
20	-65°	210	3	1.6	-65	18.5	8.2	J
21	-65°	208	2	58.7	-65	35.7	8.9	✓
22	-65°	211	3	2.2	-65	38.9	8.7	✓
23	-65°	215	3	2.8	-65	40.2	7.9	✓
24	-66°	169	3	1.6	-66	1.1	8.7	J
25	-66.5°	216	3	4.2	-66.5	33.2	9.1	✓
26	-65°	218	3	5.1	-65	55.7	8.9	J
27	-66°	170	3	5.9	-66	23.8	7.6	✓

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March 14, 1912 (Cont.)

B88370

No.	Class	Int.	Remark
28	F	2	
29	F5	3	
30	F8	7	
31	K0	3	
32	Q2	10	
33	F5	6	
34	Q2	7	
35	Q3	6	
36	Q3	5	
37	K0	2	
38	K0	4	
39	K2	3	
40	K0	2	
41	F8	6	
42	K0	5	
43	G5	5	
44	G5	5	
45	K0	4	
46	Q3	5	
47	Ma	4	
48	K0	3	The South-preceding of two
49	X Q	3	The South-following of two. Difficult due to superposition
50	K5	4	E
June 7.15	51	B8	10	Too dense
" 2.56	52	Q3	7	
	53	F	5	E
	54	Q	8	E

28	-66°	174	3	8.2	-66	51.0	8.6 ✓
29	-66°	175	3	8.9	-66	58.1	8.3 ✓
30	-66°	180	3	12.0	-66	17.5	8.3 ✓
31	-67°	215	3	12.7	-67	7.1	8.5 ✓
32	-67°	217	3	16.6	-67	22.7	6.3 ✓
33	-66°	184	3	17.4	-66	20.2	7.7 ✓
34	-66°	185	3	17.5	-66	10.8	7.2 ✓
35	-66°	188	3	19.0	-66	14.2	7.6 ✓
36	-66°	189	3	20.9	-66	13.5	7.7 ✓
37	-66°	190	3	21.2	-66	0.0	8.8 ✓
38	-65°	237	3	23.4	-65	26.4	8.5 ✓
39	-65°	241	3	25.6	-65	5.0	8.7 ✓
40	-64°	244	3	25.6	-64	45.9	8.9 ✓
41	-64°	245	3	26.1	-64	40.3	8.3 ✓
42	-64°	247	3	27.1	-64	28.2	8.5 ✓
43	-64°	249	3	28.6	-64	32.7	8.3 ✓
44	-65°	248	3	29.4	-65	4.5	8.5 ✓
45	-65°	246	3	29.1	-65	24.6	8.6 ✓
46	-65°	247	3	29.2	-65	34.9	8.4 ✓
47	-65°	250	3	30.7	-65	50.1	8.7 ✓
48	-66°	197	3	30.6	-66	4.1	8.5 ✓
49	-66°	198	3	30.7	-66	7.3	8.7 ✓
50	-66°	196	3	29.8	-66	42.9	8.7 ✓
51	-66°	195	3	29.6	-66	54.7	5.8 ✓
52	-67°	236	3 2	31.6	-67	9.0	7.7 ✓
53	-66°	200	3	36.3	-66	56.1	8.4 ✓
54	-66°	203	3	40.4	-66	52.5	7.9 ✓

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March 14, 1912 (Cont)

B38370

No.	Class	Dist.	Remark
55	F0	8	
56	K2	3	
57	A2	10	
58	F	5	E
59	K0	4	
60	G5	4	
61	G	2	
62	G5	5	
63	K	2	
64	G5	8	
65	K0	7	
66	A	3	
67	G	10	
68	F2	5	
69	F5	3	E
70	G0	6	E
71	F5	4	
72	K0	7	E.
73	G5	8	
74	F5	4	
75	F8	6	
76	K0	3	
77	B9	4	
78	A3	7	
79	K0	3	
80	G0	3	
81	F8	3	

55	-65°	251	3	33.0	-65	7.6	7.7	✓
56	-65°	253	3	34.1	-65	29.1	8.9	✓
57	-66°	199	3	33.0	-66	10.8	6.9	✓
58	-65°	259	3	39.0	-65	41.0	8.7	✓
59	-64°	258	3	38.3	-64	26.4	8.8	✓
60	-64°	261	3	39.4	-64	17.2	8.9	✓
61	-64°	260	3	38.9	-64	3.1	9.3	✓
62	-63°	253	3	41.3	-63	50.6	9.0	✓
63	-63°	255	3	42.2	-63	55.1	9.4	✓
64	-64°	269	3	43.5	-64	7.1	8.3	✓
65	-64°	262	3	40.9	-64	35.5	8.5	✓
66	-64°	266	3	41.9	-64	36.2	9.2	✓
67	-65°	263	3	42.6	-65	12.2	4.8	✓
68	-64°	270	3	44.5	-64	27.9	8.5	✓
69	-64°	272	3	45.7	-64	43.2	8.8	✓
70	-65°	272	3	46.5	-65	13.3	8.2	✓
71	-63°	259	3	44.5	-63	32.9	8.8	✓
72	-64°	203	2	49.0	-64	3.2	7.6	✓
73	-63°	197	2	49.6	-63	25.3	7.1	✓
74	-63°	198	2	51.8	-63	30.7	8.2	✓
75	-63°	201	2	54.5	-63	32.1	7.7	✓
76	-63°	202	2	55.4	-63	9.9	9.3	✓
77	-63°	203	2	55.8	-63	6.1	8.6	✓
78	-62°	247	2	56.4	-62	57.3	8.0	✓
79	-62°	250	2	59.0	-62	56.3	9.1	✓
80	-63°	206	3	0.8	-63	28.9	9.0	✓
81	-63°	210	3	3.7	-63	21.2	8.9	✓

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March 14, 1912 (cont)

B38370

No.	Class	Int.	Remark
82	H	4	
83	H	2	
84	H5	2	
85	H0	9	
86	H5	5	
87	K0	4	
88	H0	2	
89	A	3	
90	H5	10	
91	H0	3	
92	G	2	
93	G5	2	
94	G5	4	
95	K0	3	
96	G0	2	
97	A3	8	
98	A5	7	
99	F	10	Burned out.
100	K0	6	
101	G5	3	
102	H0	5	
103	F	3	
104	G0	9	
105	G5	6	
106	H0	7	
107	K	2	
108	K	1	Partly superposed on 109.

82	-64°	225	3	4.7	-64	11.8	8.6	✓
83	-64°	226	3	5.1	-64	31.2	9.0	✓
84	-64°	227	3	6.4	-64	35.4	8.7	✓
85	-65°	219	3	6.7	-65	2.7	6.7	✓
86	-65°	221	3	7.4	-65	19.6	7.7	✓
87	-65°	223	3	8.7	-65	26.2	8.8	✓
88	-65°	226	3	10.5	-65	34.6	8.8	✓
89	-65°	227	3	10.8	-65	49.4	8.6	✓
90	-64°	235	3	13.2	-64	54.2	6.5	✓
91	-64°	236	3	14.7	-64	38.1	8.7	✓
92	-65°	231	3	15.7	-65	1.2	9.4	✓
93	-64°	237	3	15.7	-64	15.8	8.9	✓
94	-64°	239	3	20.2	-64	0.2	8.7	✓
95	-63°	224	3	22.6	-63	28.6	8.9	✓
96	-63°	226	3	23.1	-63	29.2	9.1	✓
97	-63°	225	3	22.7	-63	0.2	7.9	✓
98	-63°	230	3	24.6	-63	15.5	7.9	✓
99	-63°	234	3	27.2	-63	22.5	5.4	✓
100	-63°	231	3	24.9	-63	55.5	8.3	✓
101	-64°	248	3	27.7	-64	1.4	8.9	✓
102	-64°	250	3	29.9	-64	6.0	8.4	✓
103	-63°	235	3	29.4	-63	36.3	9.1	✓
104	-62°	276	3	28.7	-62	26.0	7.1	✓
105	-62°	279	3	31.7	-62	35.0	8.2	✓
106	-63°	236	3	31.5	-63	3.7	7.2	✓
107	-63°	237	3	32.0	-63	11.2	8.9	✓
108	-63°	239	3	32.6	-63	3.0	9.0	✓

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March 14, 1912 (Cont)

B 38370

No.	Class	Int.	Remark
109	Q2	10	
110	Y5	7	
111	Y	3	The preceding of a group.
112	K	2	
113	7	3	
114	70	4	
115	Y	2	
116	Y5	2	
117	70	3	
118	72	3	
119	Q2	7	
120	Y5	6	
121	K0	5	
122	K0	4	
123	Y5	3	
124	K0	7	
125	K0	6	
126	72	7	
127	A0	6	
128	K0	6	
129	Y5	8	
130	Y0	8	
131	K0	2	
132	75	5	
133	75	2	
134	B0	3	
135	B5	3	Probably this plate of same type as preceding

109	-62°	280	3	32.6	-62	58.4	6.6 ✓
110	-62°	283	3	33.4	-62	52.3	8.9 ✓
111	-63°	241	3	35.2	-63	11.6	8.7 ✓
112	-63°	243	3	35.4	-63	13.3	9.1 ✓
113	-63°	246	3	36.4	-63	23.3	8.9 ✓
114	-64°	254	3	33.6	-64	4.8	8.6 ✓
115	-63°	247	3	36.6	-63	3.0	9.2 ✓
116	-62°	286	3	35.8	-62	18.4	9.4 ✓
117	-62°	287	3	36.0	-62	24.2	9.2 ✓
118	-62°	288	3	36.7	-62	7.8	9.0 ✓
119	-61°	275	3	41.0	-61	54.2	7.1 ✓
120	-62°	292	3	41.4	-62	1.2	7.7 ✓
121	-61°	235	2	52.9	-61	58.0	8.4 ✓
122	-62°	243	2	54.2	-62	18.7	8.8 ✓
123	-62°	245	2	55.7	-62	17.6	8.8 ✓
124	-61°	241	3	0.1	-61	17.2	8.2 ✓
125	-61°	244	3	1.0	-61	19.8	8.8 ✓
126	-61°	245	3	1.4	-61	32.0	7.9 ✓
127	-60°	243	3	5.9	-60	57.2	7.8 ✓
128	-61°	247	3	5.4	-61	37.8	8.2 ✓
129	-62°	257	3	5.0	-62	11.9	7.7 ✓
130	-62°	258	3	5.3	-62	19.9	7.4 ✓
131	-62°	259	3	5.9	-62	15.1	9.2 ✓
132	-62°	256	3	4.9	-62	39.8	8.2 ✓
133	-62°	258	3	1.6 / 5.3	-62	59.9	9.0 / 7.4 ✓
134	-62°	253	3	2.9	-62	28.0	9.0 ✓
135	-62°	254	3	3.2	-62	33.0	9.0 ✓

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March 14, 1921 (Cont)

-13 38370

No.	class	Dist.	Remark
136	K0	7	
137	K8	5	
138	K0	7	
139	G2	10	
140a	~~7~~	4	
140	K0	3	
141	K5	6	
142	K5	6	
143	K8	7	
144	K0	10	
145	K0	10	
146	B8	3	
147	K2	2	
148	K0	6	
149	K8	8	
150	K5	3	
151	K2	7	
152	K5	4	The following N two.
153	K5	7	Poor focus ?
154	K5	8	
155	K5	4	
156	K0	7	
157	K5	3	
158	K5	6	
159	7	6	Poor focus
160	K5	7	
161	K0	6	
162	K0	4	

136	-62°	260	3	7.7	-62	49.6	8.1	✓
137	-62°	262	3	9.8	-62	45.2	8.4	✓
138	-63°	212	3	8.1	-63	43.5	7.8	✓
139	-64°	229	3	7.9	-64	23.1	6.6	✓
140a	-64°	234	3	10.9	-64	48.1	8.6	✓
140	-63°	214	3	13.6	-63	26.6	8.9	✓
141	-63°	215	3	14.0	-63	44.2	8.8	✓
142	-63°	216	3	14.8	-63	47.4	8.2	✓
143	-63°	219	3	15.5	-63	31.7	8.0	✓
144	-63°	217	3	15.1	-63	3.2	6.4	✓
145	-62°	265	3	15.5	-62	59.0	5.6	✓
146	-63°	221	3	17.9	-63	14.1	8.8	✓
147	-63°	223	3	20.0	-63	7.3	9.0	✓
148	-62°	268	3	18.8	-62	31.3	8.2	✓
149	-61°	253	3	19.0	-61	56.0	7.3	✓
150	-62°	271	3	22.2	-62	16.0	8.8	✓
151	-61°	261	3	24.9	-61	41.7	7.6	✓
152	-61°	264	3	26.8	-61	37.2	8.6	✓
153	-61°	265	3	30.3	-61	0.0	7.5	✓
154	-61°	267	3	30.5	-61	26.3	7.1	✓
155	-61°	266	3	30.4	-61	48.9	7.8	✓
156	-61°	269	3	33.8	-61	57.4	7.2	✓
157	-61°	273	3	35.9	-61	22.3	8.4	✓
158	-60°	232	2	57.2	-60	19.0	8.2	✓
159	-60°	234	3	0.0	-60	29.4	8.0	✓
160	-60°	237	3	1.1	-60	27.1	8.0	✓
161	-60°	238	3	1.8	-60	40.9	8.4	✓
162	-60°	241	3	3.8	-60	35.4	8.6	✓

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March 9, 1912 (Cont.)
B 38370

No.	Class	Int.	Remark
163	K	1	
164	↓	3	
165	↑2	7	
166	↑8	2	
167	K0	3	
168	K5	3	
169	↓5	6	
170	K0	3	
171	↓5	4	
172	K0	5	
June 3, 20 173	Q2	8	

163	-60°	2.42	3	5.5	-60	39.1	9.4	✓
164	-60°	2.45	3	11.7	-60	57.1	8.8	✓
165	-61°	2.49	3	12.2	-61	6.0	8.0	✓
166	-61°	2.48	3	10.1	-61	57.6	9.1	✓
167	-61°	2.50	3	12.6	-61	50.2	8.8	✓
168	-61°	2.51	3	15.3	-61	29.8	9.0	✓
169	-60°	2.48	3	17.4	-60	56.8	8.5	✓
170	-61°	2.55	3	19.5	-61	26.1	8.8	✓
171	-60°	2.49	3	18.5	-60	5.4	8.2	✓
172	-60°	2.50	3	19.7	-60	9.0	8.2	✓
173	-60°	2.54	3	28.8	-60	16.8	7.0	✓

Identified by J. C. M. April 11, 1912.
Checked by A. M. C. April 29, 1912

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March 14, 1912

Time 3.40

B 20429

Short disp

No.	Class	Int.	Remark
1	F5	9	
2	K0	4	
3	K2	3	
4	Q3	3	
5	?	1	
6	K2	6	
7	F8	21	
8	G0	4	
9	Q2	3	
10	F0	10	
11	K5	4	
12	F8	2	
13	G5	3	
14	G0	9	
15	G5	3	
16	G5	8	
17	F5	9	
18	F5	8	
19	K0	8	
20	F8	4	
21	F8	5	
22	K0	6	
23	K5	7	
24	F5	3	
25	G0	2	
26	G5	21	
27	B8	10+	Burned out.

1	-64°	148	1	58.3	-64	13.6	7.4	✓
2	-64°	151	1	59.7	-64	50.0	8.7	✓
3	-65°	158	1	56.3	-65	23.7	8.9	✓
4	-65°	162	1	58.2	-65	31.8	8.8	✓
5	-65°	164	1	58.8	-65	35.9	9.2	✓
6	-65°	160	1	57.6	-65	42.8	8.5	✓
7	-65°	161	1	58.0	-65	47.8	8.8	✓
8	-65°	163	1	58.5	-65	59.9	8.8	✓
9	-66°	128	2	0.1	-66	6.9	8.8	✓
10	-65°	165	2	1.3	-65	44.2	7.4	✓
11	-65°	167	2	4.9	-65	35.0	9.0	✓
12	-64°	155	2	4.4	-64	58.0	9.2	✓
13	-65°	168	2	6.5	-65	11.0	9.2	✓
14	-64°	156	2	6.8	-64	56.8	7.8	✓
15	-64°	158	2	9.3	-64	52.9	9.2	✓
16	-64°	159	2	11.0	-64	22.7	8.0	✓
17	-63°	151	2	13.5	-63	58.3	7.8	✓
18	-63°	152	2	14.3	-63	18.9	8.2	✓
19	-63°	156	2	17.4	-63	7.1	8.3	✓
20	-63°	153	2	15.1	-63	47.2	8.5	✓
21	-64°	161	2	16.6	-64	7.2	8.2	✓
22	-64°	162	2	18.6	-64	2.4	8.6	✓
23	-64°	166	2	21.4	-64	17.6	8.7	✓
24	-64°	167	2	21.5	-64	34.1	8.7	✓
25	-64°	165	2	20.2	-64	38.0	9.1	✓
26	-64°	168	2	22.4	-64	47.9	9.1	✓
27	-64°	174	2	25.1	-64	57.6	6.4	✓

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B 2042g

No.	Class	Dist.	Remark
28	K	2	
29	G5	4	
30	K0	6	
31	F2	4	
32	A0	9	
33	B8	2	
34	K0	3	
35	A2	3	
36	G5	6	
37	G5	5	
38	G5	3	
39	K0	2	
40	K0	2	
41	A	10+	Burned out.
42	K	10+	"
43	F5	4	
44	A	4	
45	G5	4	
46	G5	10	
47	F0	9	
48	K0	3	
49	G5	9	
50	M	6	
51	K2	4	
52	F8	3	
53	B8	8	
54	B	2	

28	-65°	178	2	24.9	-65	20.1	9.0	✓
29	-63°	159	2	22.6	-63	46.3	8.6	✓
30	-63°	160	2	23.1	-63	28.8	8.3	✓
31	-64°	176	2	27.5	-64	27.3	8.7	✓
32	-64°	178	2	28.0	-64	35.9	7.5	✓
33	-64°	181	2	28.9	-64	31.9	8.9	✓
34	-64°	179	2	28.6	-64	7.7	8.9	✓
35	-63°	162	2	27.3	-63	25.5	8.9	✓
36	-63°	163	2	27.8	-63	8.8	8.4	✓
37	-63°	167	2	29.2	-63	33.8	8.5	✓
38	-64°	183	2	29.7	-64	4.4	9.0	✓
39	-64°	187	2	31.4	-64	27.5	9.1	✓
40	-64°	190	2	34.0	-64	29.4	9.1	✓
41	-64°	192	2	36.8	-64	49.2	6.4	✓
42	-64°	196	2	42.8	-64	13.8	6.8	✓
43	-64°	197	2	43.4	-64	55.2	8.6	✓
44	-64°	200	2	45.2	-64	53.1	8.6	✓
45	-66°	119	1	52.0	-66	18.0	8.4	✓
46	-66°	123	1	54.5	-66	2.1	7.4	✓
47	-66°	124	1	56.2	-66	3.5	7.4	✓
48	-66°	121	1	54.2	-66	37.3	8.7	✓
49	-66°	125	1	56.4	-66	40.4	7.4	✓
50	-66°	126	1	58.0	-66	57.1	8.5	✓
51	-66°	127	1	59.5	-66	29.0	8.4	✓
52	-66°	129	2	2.5	-66	43.9	8.7	✓
53	-66°	130	2	3.9	-66	32.3	7.3	✓
54	-66°	131	2	5.7	-66	58.9	9.2	✓

Cepheids made

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March 14, 1912 (Cont'd)

B 20429

No.	Class	Dist.	
55	K0	2	
56	K0	7	
57	K0	5	
58	K5	3	
59	K	2	
60	K5	3	
61	F0	6	
62	F8	3	
63	Mar	6	
64	K5	3	
65	K5	8	
66	F8	3	
June 3,53 67	F5	5	
68	K	1	
69	A2	7	Maybe Comp.
June 4.05 70	F8	2	
71	A0	8	
72	K5	3	
73	K0	2	
74	K0	4	
75	K2	5	
76	K	2	
77	F5	5	H band not seen distinctly.
78	K5	2	
79	F8	8	
80	K5	2	
81	F5	2	

55	-66°	132	2	8.5	-66	56.5	9.2	✓
56	-66°	134	2	9.8	-66	44.3	7.9	✓
57	-66°	133	2	9.0	-66	21.5	8.5	✓
58	-65°	169	2	9.3	-65	35.5	9.2	✓
59	Approx.	187.5	2	12.5	-65	2		✓
60	-64°	160	2	15.2	-64	52.4	9.2	✓
61	-65°	172	2	17.5	-65	4.7	8.6	✓
62	-65°	175	2	21.5	-65	28.1	8.9	✓
63	-65°	174	2	21.1	-65	54.1	8.7	✓
64	-65°	179	2	25.2	-65	52.9	9.0	✓
65	-66°	140	2	25.4	-66	7.3	8.2	✓
66	-66°	141	2	25.7	-66	29.1	8.9	✓
67	-66°	142	2	26.0	-66	37.9	8.6	✓
68	-66°	145	2	27.1	-66	30.1	9.3	✓
69	-66°	146	2	27.6	-66	20.5	8.6	✓
70	-66°	147	2	28.6	-66	40.9	9.0	✓
71	-66°	148	2	30.1	-66	56.1	8.3	✓
72	-66°	149	2	30.8	-66	11.2	8.9	✓
73	-66°	150	2	31.5	-66	9.4	8.9	✓
74	-66°	151	2	32.1	-66	20.1	8.9	✓
75	-65°	186	2	31.3	-65	2.5	8.7	✓
76	-65°	187	2	31.5	-65	12.0	9.3	✓
77	-65°	191	2	36.6	-65	52.2	8.7	✓
78	-66°	154	2	36.6	-66	13.8	9.1	✓
79	-66°	155	2	37.5	-66	39.0	7.6	✓
80	-66°	156	2	40.0	-66	37.3	8.9	✓
81	-66°	157	2	41.1	-66	57.4	9.0	✓

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March 14, 1912 (cont)
B 20429 Short disp.

No.	Class	Int.	Remark
82	F8	10	
83	F5	4	
84	K0	3	
85	K	2	
86	G5	9	
87	F5	8	
88	K0	7	
89	F	4	
90	K0	5	
91	A0	6	
92	F5	6	
93	K0	6	
94	G5	8	
95	K0	6	
96	K2	2	
97	F5	3	
98	F5	6	
99	G0	4	
Irine 4.13	100 F8	7	
" 10.42	101 F8	3	
	102 G5	10	
	103 K0	5	
	104 G	2	
	105 G5	1	
	106 K	1	
	107 F5	3	
	108 K	6	8.

82	-66°	181	2	41.3	-66	14.5	6.6	✓
83	-67°	184	2	43.2	-67	31.8	8.5	✓
84	-67°	160	2	43.8	-67	50.6	9.0	✓
85	-65°	198	2	46.6	-65	45.4	9.0	✓
86	-65°	201	2	50.7	-65	58.0	7.6	✓
87	-65°	203	2	51.7	-65	24.5	7.3	✓
88	-64°	206	2	52.0	-64	56.6	7.7	✓
89	-67°	195	2	56.0	-67	21.4	8.6	✓
90	-67°	198	2	56.6	-67	38.4	8.8	✓
91	-67°	194	2	55.0	-67	44.9	8.5	✓
92	-67°	197	2	56.5	-67	52.2	8.6	✓
93	-67°	201	2	59.2	-67	35.6	8.6	✓
94	-67°	170	2	35.8	-67	50.4	6.8	✓
95	-67°	173	2	37.4	-67	29.5	8.2	✓
96	-67°	175	2	38.2	-67	38.3	9.4	✓
97	-67°	178	2	38.8	-67	53.7	8.9	✓
98	-67°	182	2	41.7	-67	48.8	8.3	✓
99	-67°	185	2	43.9	-67	53.6	8.6	✓
100	-67°	188	2	45.1	-67	47.9	7.6	✓
101	-67°	189	2	46.5	-67	48.5	9.6	✓
102	-68°	172	2	49.1	-68	2.1	7.1	✓
103	-67°	192	2	50.6	-67	49.1	8.6	✓
104	-66°	161	2	52.3	-66	50.9	9.0	✓
105	-66°	163	2	53.3	-66	50.5	9.5	✓
106	-67°	193	2	54.1	-67	18.6	9.4	✓
107	-66°	165	2	56.4	-66	34.7	8.7	✓
108	-66°	168	3	1.3	-66	54.3	8.6	✓

Clear Night

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B20 429 short disp.

No.	Class	Int.	Remark
109	A2	6	E.
110	A	10	Burned out
111	K0	3	
112	G	10+	Burned out
113	K	2	Partly superposed on 114
114	F2	5	
115	G5	6	
116	F5	5	
117	K0	3	
118	G0	3	
119	K0	7	
120	K0	2	
121	K0	2	
122	G5	2	
123	G0	3	
124	F5	4	
125	G5	4	
126	K0	3	
127	G	2	
128	F5	4	
129	F5	2	
130	K5	10	Maybe Ma
131	K	10	
132	Ma	6	
133	G0	7	
134	A2	9	
135	G0	3	

109	-68°	95	1	48.6	-68	44.7	8.4	✓
110	-68°	96	1	49.4	-68	33.6	6.6	✓
111	-68°	97	1	49.9	-68	48.2	9.5	✓
112	-68°	101	1	51.8	-68	15.8	6.2	✓
113	-68°	102	1	52.2	-68	31.4	9.8	✓
114	-68°	103	1	52.5	-68	28.4	8.8	✓
115	-68°	106	1	55.2	-68	11.7	8.9	✓
116	-67°	131	1	54.9	-67	52.6	9.0	✓
117	-67°	136	1	58.0	-67	48.4	9.5	✓
118	-67.8°	109	1	57.8	-67.8	17.3	9.5	✓
119	-67.8°	113	2	2.3	-67.8	53.9	8.7	✓
120	-69°	95	2	1.9	-69	10.0	9.5	✓
121	Approx.	1875	2	0.2	-67	12		✓
122	-67°	137	2	2.9	-67	30.8	10.1	✓
123	-67°	140	2	6.0	-67	49.2	9.6	✓
124	-67°	142	2	8.7	-67	23.1	9.0	✓
125	-67°	144	2	11.2	-67	22.5	8.9	✓
126	-67°	143	2	11.1	-67	1.1	9.2	✓
127	-67°	141	2	8.6	-67	3.4	9.3	✓
128	-67°	145	2	12.1	-67	50.6	8.9	✓
129	-67°	146	2	12.1	-67	58.3	9.5	✓
130	-68°	126	2	11.6	-68	25.6	6.8	✓
131	-68°	128	2	12.9	-68	19.6	7.0	✓
132	-68°	132	2	15.7	-68	21.7	8.4	✓
133	-68°	133	2	17.0	-68	15.8	8.0	✓
134	-68°	134	2	17.4	-68	39.5	6.7	✓
135	-68°	135	2	18.5	-68	41.5	9.0	✓

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No.	Class	Int.	Remark
136	g_5	2	
137	F_2	5	
138	F_0	4	
139	g_5	2	
140	A_2	9	
141	K_0	3	
142	A_0	6	
143	Mb	9	
144	F_8	2	
145	K	1	
146	g_0	2	
147	g_0	8	
148	g_5	2	
149	g	1	
150	F	2	
151	g_0	2	
152	B_8	6	
153	K_0	3	
154	g_0	5	
155	F_5	6	
156	g_5	5	
157	g	10	Burned out.
158	K_0	2	
159	K	10	
160	F_5	6	
161	A_0	6	E. Look up on long dispersion
162	F_5	5	

136	-68°	136	2	19.6	-68	20.3	9.5 ✓
137	-68°	140	2	21.8	-68	43.1	8.7 ✓
138	-68°	141	2	22.3	-68	42.7	8.8 ✓
139	-68°	143	2	23.1	-68	36.1	9.5 ✓
140	-68°	144	2	23.2	-68	19.8	7.6 ✓
141	-67°	158	2	25.5	-67	43.3	8.8 ✓
142	-67°	161	2	26.5	-67	19.4	8.2 ✓
143	-67°	154	2	22.9	-67	3.5	8.0 ✓
144	-66°	136	2	19.7	-66	46.8	8.9 ✓
145	-66°	137	2	19.7	-66	32.7	9.0 ✓
146	-67°	148	2	17.0	-67	9.2	9.2 ✓
147	-68°	151	2	29.0	-68	31.2	7.6 ✓
148	-67°	166	2	32.2	-67	10.1	9.0 ✓
149	-67°	165	2	32.1	-67	57.4	9.9 ✓
150	-68°	154	2	32.3	-68	11.2	9.6 ✓
151	-68°	155	2	32.9	-68	40.8	9.5 ✓
152	-68°	156	2	33.3	-68	42.4	8.0 ✓
153	-68°	160	2	36.5	-68	5.1	9.6 ✓
154	-68°	167	2	42.3	-68	40.4	8.3 ✓
155	-69°	140	2	40.0	-69	13.1	8.1 ✓
156	-69°	137	2	39.0	-69	37.1	8.4 ✓
157	-69°	138	2	39.0	-69	45.9	6.8 ✓
158	-69°	141	2	41.3	-69	33.5	9.1 ✓
159	-69°	142	2	41.8	-69	41.4	7.4 ✓
160	-69°	144	2	42.0	-69	54.6	8.2 ✓
161	-70°	176	2	42.2	-70	5.9	8.3 ✓
162	-69°	147	2	43.9	-69	42.6	8.3 ✓

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No.	Class	Grt.	Remark
163	Mb	4	
164	A2	4	
165	A2	5	
166	Mb	3	
167	ly5	9	
168	K0	6	
169	ly5	3	
170	F5	7	
171	ly5	3	
172	K0	2	
173	A	6	
174	ly5	3	
175	F2	5	
176	F8	3	
177	F8	3	
178	F0	2	
179	ly5	2	
180	K	1	
181	ly	2	
182	ly0	5	
183	K2	3	
184	F5	6	
185	ly0	2	
186	ly5	3	
187	ly5	8	
188	K0	4	
189	ly0	7	

163	-69°	149	2	44.5	-69	24.8	8.9	✓
164	-69°	150	2	45.3	-69	36.3	9.0	✓
165	-69°	152	2	47.0	-69	21.3	9.0	✓
166	-70°	182	2	48.5	-70	19.6	9.6	✓
167	-69°	87	1	52.9	-69	0.4	7.6	✓
168	-70°	100	1	51.3	-70	7.9	8.6	✓
169	-70°	106	1	55.9	-70	2.4	9.0	✓
170	-70°	107	1	55.9	-70	9.6	8.2	✓
171	-69°	91	1	58.2	-69	55.0	9.2	✓
172	-70°	111	1	57.2	-70	25.0	9.8	✓
173	-70°	119	1	59.3	-70	16.8	8.8	✓
174	-70°	124	2	3.5	-70	18.9	9.2	✓
175	-70°	125	2	4.0	-70	37.0	8.8	✓
176	-69°	99	2	6.0	-69	34.2	9.2	✓
177	-69°	101	2	7.7	-69	22.0	9.0	✓
178	-69°	97	2	4.1	-69	27.2	9.6	✓
179	-68°	117	2	7.9	-68	52.2	10.1	✓
180	-69°	103	2	11.2	-69	17.3	10.4	✓
181	-69°	104	2	11.8	-69	5.7	9.8	✓
182	-69°	108	2	13.9	-69	20.4	8.8	✓
183	-68°	130	2	14.1	-68	58.3	9.6	✓
184	-68°	131	2	14.6	-68	46.2	8.8	✓
185	-69°	107	2	13.7	-69	37.6	9.2	✓
186	-70°	132	2	12.1	-70	4.2	8.9	✓
187	-70°	136	2	13.6	-70	0.9	7.8	✓
188	-70°	138	2	14.5	-70	3.2	8.8	✓
189	-70°	140	2	16.8	-70	27.6	8.4	✓

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B20429 short disp.

No.	Class	Int.	Remark
190	ℊ5	5	
191	ℊ2	4	
192	ℊ5	4	
193	ℊ5	2	
194	K0	7	
195	F8	3	
196	F5	4	
Time 11.08 197	K5	6	
" 11.21 198	K0	3	
199	ℊ5	7	H & K strong as in class ℊ
200	ℊ5	5	
201	ℊ5	9	
202	Mb	8	
203	K0	4	
204	∃	10	E.
205	A	8	E.
206	A5	7	E.
207	K0	6	
208	A3	7	
209	Ma	8	
210	K	10	
211	Mb	4	
212	A3	7	
~~213~~			
Time 23 hrs. 30 min.			
213	K0	5	
214	ℊ5	5	

190	-70°	142	2	~~18.0~~ 17.9	-70	0.3	8.8√	
191	-70°	144	2	19.3	-70	19.7	8.9√	
192	-70°	147	2	21.1	-70	2.4	8.9√	
193	-69°	115	2	21.4	-69	36.0	9.6√	
194	-69°	121	2	24.2	-69	11.7	8.2√	
195	-69°	122	2	24.7	-69	24.0	9.0√	
196	-69°	124	2	26.0	-69	36.3	8.9√	
197	-69°	127	2	27.8	-69	9.7	8.6√	
198	-69°	130	2	31.7	-69	44.8	9.0√	
199	-70°	163	2	30.6	-70	9.3	8.2√	
200	-70°	165	2	31.4	-70	17.5	8.7√	
201	-70°	170	2	36.4	-70	39.4	9.4√	
202	-70°	155	2	26.9	-70	5.1	8.0√	
203	-70°	154	2	26.3	-70	27.9	7.2√	
204	-70°	151	2	23.7	-70	39.8	7.6√	
205	-72°	122	2	17.1	-71	15.1	8.1√	
206	-70°	137	2	14.4	-70	53.6	8.2√	
207	-71°	135	2	28.1	-71	9.8	8.4√	
208	-71°	138	2	28.6	-71	28.1	8.2√	
209	-71°	144	2	32.5	-71	18.8	8.4√	
210	-71°	154	2	37.6	-71	12.9	7.6√	
211	-71°	159	2	41.8	-71	44.0	8.2√	
212	-70°	181	2	48.0	-70	44.1	7.7√	
213	-70°	164	2	30.9	-70	39.9	8.8√	
214	-70°	173	2	39.0	-70	27.2	8.5√	

Identified by J.C.M. April 13, 1912. Checked by A.M.C. April 18, 1912

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