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Dec 10, 1911

Time 10:23

I 37366

No.	Mag Class	Int.	Remark
1	B	6	Midge. Cannot subdivide
2	K0	3	
3	F8	5	
4	A0	8	
5	A0	3	
6	B5	4	E Dp. partly cut off
7	B8	3	
8	F5	2	
9	A0	2	
10	B9	5	
11	A2	3	
12	K0	3	
13	B5	2	
14	F?	1	Dnist unless confirmed
15	K5	2	
16	F5	3	
17	K0	3	
18	F8	2	
19	B9	5	
20	B9	45	
21	K0	3	
22	A2	4	
23	B5	3	
24	A2	2	
25	F0	7	
26	A0	2	
27	K2	2	
28	B	3	

Cards made 0[illegible]

1	+48°	1339	5	54	48.8	+48	15.4	6.8	✓	
2	+47°	1237	5	52	6.8	+47	58.0	7.5	✓	
3	+47°	1236	5	51	44.7	+47	47.7	6.7	✓	
4	+47°	1227	5	49	58.1	+47	52.0	6.0	✓	
5	+48°	1330	5	49	16.8	+48	12.6	8.3	✓	
6	+46°	1075	5	48	43.1	+46	38.0	7.0	✓	
7	+46°	1074	5	48	28.6	+46	53.9	7.9	✓	
8	+46°	1073	5	47	5.0	+46	39.8	7.8	✓	
9	+47°	1220	5	47	29.3	+47	23.1	8.8	✓	
10	+47°	1214	5	45	25.6	+47	40.8	7.3	✓	
11	+47°	1211	5	43	57.0	+47	6.4	7.8	✓	
12	+46°	1060	5	41	31.2	+46	45.2	7.5	✓	
13	+47°	1206	5	41	38.9	+47	22.6	8.5	✓	
14	+47°	1201	5	39	43.1	+47	4.8	8.7	+47° 1199 superposed?	✓
15	+47°	1200	5	39	39.6	+47	26.4	8.2	✓	
16	+47°	1196	5	38	33.2	+47	48.6	8.4	✓	
17	+46°	1052	5	37	24.6	+46	39.4	6.5	✓	
18	+46°	1051	5	36	58.7	+46	55.0	8.0	✓	
19	+47°	1194	5	35	57.1	+47	23.6	7.5	✓	
20	+47°	1193	5	35	25.7	+47	51.1	7.5	✓	
21	+47°	1189	5	32	52.7	+47	38.3	7.1	✓	
22	+48°	1297	5	30	43.7	+48	22.4	7.0	✓	
23	+47°	1180	5	26	20.7	+47	51.1	7.2	✓	
24	+48°	1290	5	26	11.3	+48	8.2	9.2	✓	
25	+47°	1178	5	25	20.3	+47	38.7	6.0	✓	
26	+47°	1176	5	24	59.2	+47	52.8	8.3	✓	
27	+47°	1174	5	24	38.4	+47	58.7	7.5	✓	
28	+48°	1283	5	22	39.8	+48	11.6	7.5	✓	

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I 37366

No.	Dec	Dct.	Remark
29	Ao	2	
30	Ao	3	
31	Bq	4	
32	J8	3	
33	A	2	
34	Y	2	
35	Kr	3	Partly superposed on 36
36	Ko	2	Partly superposed on 35
37	Q2	3	
38	K5	3	E
39	A	5	E
40	A	3	E
41	Q2	2	E
42	Ko	5	
43	J0	3	
44	A	2	
45	A	3	E
46	B8?	3	E
47	J5	2	
48	Bq	2	
49	B8	4	
50	Q3	8	
51	J0	2	
52	Q3	4	
53	J0	2	
54	J0	2	
55	Ko	5	
56	Ko	4	

29	+47°	1171	5	22	7.4	+47	28.0	9.2	✓
30	+46°	1023	5	22	19.5	+46	46.3	7.3	✓
31	+47°	1169	5	21	24.3	+47	14.5	9.0	✓
32	+47°	1164	5	19	51.9	+47	47.5	8.3	✓
33	+48°	1276	5	19	24.6	+48	6.9	9.0	✓
34	+47°	1158	5	18	28.2	+47	53.0	7.8	+47° 1159 superposed? ✓
35	+48°	1273	5	16	57.5	+48	5.8	6.2	✓
36	+48°	1274	5	16	59.9	+48	15.2	6.8	✓
37	+46°	1012	5	14	24.2	+46	49.1	8.2	✓
38	+46°	1007	5	12	25.0	+46	52.7	7.0	✓
39	+46°	998	5	9	50.3	+46	48.8	7.0	✓
40	+47°	1126	5	8	2.9	+47	5.3	8.0	✓
41	+47°	1124	5	7	41.4	+47	9.9	8.2	✓
42	+48°	1338	5	50	36.9	+48	56.8	6.5	✓
43	+49°	1436	5	50	7.6	+49	28.6	8.1	✓
44	+48°	1331	5	49	19.6	+48	52.0	8.6	✓
45	+49°	1452	5	55	52.6	+49	57.6	8.3	✓
46	+50°	1267	5	55	34.7	+50	4.2	8.2	✓
47	+49°	1444	5	53	29.5	+49	50.9	8.8	✓
48	+49°	1443	5	52	57.7	+49	53.3	8.8	✓
49	+50°	1263	5	52	27.1	+50	14.3	9.0	✓
50	+49°	1441	5	51	34.6	+49	52.3	6.0	✓
51	+49°	1435	5	49	53.0	+49	58.3	8.8	✓
52	+49°	1432	5	49	22.6	+49	57.3	8.3	✓
53	+49°	1431	5	49	5.4	+49	58.3	9.0	✓
54	+49°	1429	5	48	10.1	+49	37.2	8.5	✓
55	+49°	1428	5	48	7.7	+49	54.3	6.0	✓
56	+49°	1423	5	46	56.6	+49	0.0	6.5	✓

Cards made out

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No.	Class	Sect.	Remark
57	A2	2	
58	F5	1	
59	F8	3	
60	F2	1	
61	A	2	
62	K	1	
63	A0	2	
64	K	2	
65	A	2	
66	F0	4	
67	B8	3	
68	A5	3	
69	A2	5	
70	A5	3	
71	K	1	
72	K0	3	
73	B9?	9	Burned out
74	F0	3	
75	G5	3	Two superposed. gen small disp. S. f.
75a	A	2	
76	K0	3	
77	F	2	
78	G5	2	
79	F	2	
80	F	2	
81	A3	2	
82	F0	2	
83	K5	5	
84	A5	2	

57	+48°	1324	5	46	33.4	+48	23.4	8.6	✓
58	+49°	1426	5	46	32.7	+49	57.9	9.1	✓
59	+50°	1250	5	45	52.5	+50	19.9	8.8	✓
60	+50°	1246	5	44	6.7	+50	0.5	9.0	✓
61	+49°	1419	5	43	51.8	+49	19.0	9.2	✓
62	+48°	1318	5	44	17.3	+48	58.8	8.3	✓
63	+50°	1242	5	42	20.9	+50	7.6	9.0	✓
64	+50°	1241	5	41	47.8	+50	15.4	8.3	✓
65	+50°	1239	5	40	55.0	+50	22.8	9.0	✓
66	+49°	1414	5	40	23.8	+49	18.0	8.5	✓
67	+49°	1411	5	39	36.4	+49	1.7	8.7	✓
68	+48°	1311	5	40	10.7	+48	33.8	8.0	✓
69	+49°	1409	5	38	39.2	+49	47.2	8.1	✓
70	+50°	1232	5	37	49.6	+50	2.2	8.7	✓
71	+49°	1406	5	37	38.2	+49	29.8	8.5	✓
72	+50°	1225	5	36	3.3	+50	1.5	7.1	✓
73	+49°	1398	5	34	42.5	+49	46.0	5.7	✓
74	+49°	1400	5	35	20.6	+49	39	7.7	✓
75	+48°	1303	5	35	49.7	+48	36.2	7.5	✓
75a	+48°	13022	5	35	38.4	+48	37.0	4.1	
76	+48°	1302	5	34	27.7	+48	54.9	8.0	✓
77	+48°	1301	5	33	44.4	+48	54.3	8.8	✓
78	+49°	1395	5	33	22.0	+49	1.3	8.5	✓
79	+49°	1392	5	31	50.6	+49	46.5	9.3	✓
80	+48°	1296	5	30	14.6	+48	58.0	9.0	✓
81	+48°	1295	5	30	1.7	+48	56.4	9.0	✓
82	+49°	1384	5	28	37.4	+49	7.5	9.3	✓
83	+49°	1381	5	27	47.7	+49	18.9	6.8	✓
84	+49°	1383	5	28	10.6	+49	42.5	9.3	✓

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No.	Class	Dist.	Remarks
85	F	1	
86	A_3	3	
87	K5	2	
88	F0	4	
89	K	2	
90	K_0	4	
91	F5	4	
92	A_2	3	
93	F	1	
94	F5-	6	
95	B8	4	
96	K	2	
97	A3	4	
98	A	1	
99	G	3	
100	A	3	
101	A	2	
102	K_0	4	
103	F5	3	
104	A5-	4	
105	K	2	
106	A5	7	
107	G	3	
108	K	1	
109	A_0	7	
110	F8	2	
111	K_0	3	
112	K_0	2	

85	+49°	1382	5	27	54.2	+49	57.8	9.2	✓	–
86	+49°	1379	5	27	16.9	+49	52.5	8.5	✓	–
87	+50°	1208	5	27	23.6	+50	16.0	8.5	✓	–
88	+50°	1203	5	26	56.8	+50	25.6	8.0	✓	–
89	+49°	1376	5	25	57.2	+49	42.5	8.7	✓	–
90	+49°	1370	5	24	13.6	+49	28.4	7.5	✓	–
91	+48°	1288	5	23	48.9	+48	56.3	7.5	✓	–
92	+49°	1368	5	23	37.4	+49	9.2	9.0	✓	–
93	+49°	1367	5	23	17.9	+49	40.1	9.1	✓	–
94	+49°	1364	5	21	13.3	+49	15.6	6.3	✓	–
95	+48°	1278	5	20	43.8	+48	48.9	7.5	✓	–
96	+49°	1358	5	18	13.4	+49	3.1	7.8	✓	
97	+49°	1356	5	16	28.4	+49	7.7	7.7	✓	
98	+48°	1270	5	16	17.4	+48	53.9	9.0	✓	
99	+48°	1264	5	13	34.3	+48	13.5	8.2	✓	
100	+48°	1251	5	8	56.1	+48	59.9	9.1	✓	
101	+49°	1340	5	8	40.6	+49	9.8	9.4	✓	
102	+48°	1248	5	7	30.8	+48	46.0	6.5	✓	
103	+49°	1323	5	2	4.1	+49	40.6	7.8	✓	
104	+50°	1136	5	4	29.3	+50	23.0	7.7	✓	–
105	+51°	1150	5	54	7.7	+51	53.0	8.5	✓	–
106	+51°	1146	5	53	1.0	+51	34.6	6.3	✓	–
107	+51°	1144	5	51	42.1	+51	14.4	8.1	✓	–
108	+51°	1141	5	49	31.0	+51	4.1	8.8	✓	–
109	+51°	1139	5	48	46.5	+51	2.7	6.7	✓	–
110	+51°	1133	5	46	44.2	+51	6.1	8.8	✓	–
111	+51°	1125	5	43	58.0	+51	5.4	8.3	✓	–
112	+50°	1243	5	42	31.6	+50	41.9	8.3	✓	–

Comp. Mont. 84

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No.	Class	Sect.	Remark
113	$\frac{1}{2}$5	3	
114	K0	7	
115	K0	3	
116	B8	5	
117	B8	3	
118	K0	2	
119	$\frac{1}{2}$5	5	
120	$\frac{1}{2}$5	2	
121	B8	3	
122	K	2	
123	K0	4	
124	A5	2	
125	A2	4	
126	K0	5	
127	A0	2	
128	A	3	
129	$\frac{1}{2}$2	3	
130	K	2	
131	A	5	Partly superposed on 137
132	A0	2	" "
133	A	2	" "
134	K0	3	
135	A	2	
136	$\frac{1}{2}$0	3	
137	K0	3	
138	B5	4	
139	B5	4	
140	B5	21	

113	+50°	1240	5	41	10.8	+50	43.6	8.5	✓
114	+51°	1117	5	39	27.0	+51	28.2	6.8	✓
115	+51°	1114	5	38	23.0	+51	19.3	8.2	✓
116	+51°	1118	5	37	27.0 13.6	+51	40.9 6.1	8.1	✓
117	+50°	1229	5	36	57.6	+50	57.8	8.5	✓
118	+51°	1110	5	36	30.3	+51	23.4	8.6	✓
119	+51°	1111	5	35	33.0	+51	26.2	6.4	✓
120	+50°	1223	5	34	29.0	+50	34.0	8.4	✓
121	+50°	1222	5	33	49.0	+50	39.6	8.8	✓
122	+50°	1220	5	32	48.6	+50	43.0	8.0	✓
123	+50°	1218	5	32	3.6	+50	37.2	7.0	✓
124	+50°	1219	5	32	16.9	+50	58.2	9.1	✓
125	+51°	1096	5	28	5.6	+51	14.9	8.4	✓
126	+51°	1094	5	26	53.9	+51	20.7	7.9	✓
127	+50°	1204	5	26	58.8	+50	59.9	8.5	✓
128	+51°	1087	5	23	3.7	+51	48.8	8.0	✓
129	+52°	969	5	22	43.7	+52	6.6	8.3	✓
130	+52°	967	5	21	23.1	+52	0.8	8.2	✓
131	+51°	1083	5	21	48.3	+51	20.3	8.2	✓
132	+51°	1081a	5	21	42.4	+51	26.5	9.1	✓
133	+51°	1081	5	21	32.8	+51	14.9	9.0	✓
134	+50°	1188	5	21	39.3	+50	26.2	8.5	✓
135	+50°	1191	5	22	28.2	+50	0.2	9.2	✓
136	+50°	1183	5	20	27.0	+50	15.3	8.1	✓
137	+50°	1184	5	20	31.7	+50	53.9	7.0	✓
138	+51°	1080	5	20	34.6	+51	6.1	7.5	+51° 1079 superposed. ✓
139	+51°	1076	5	19	45.8	+51	9.8	7.5	✓
140	+51°	1072	5	17	21.5	+51	38.0	8.4	✓

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No.	Class	Instr.	Remark
141	A	2	
142	A5	2	
143	A2	2	
144	F5	3	
145	A2	4	
146	F2	4	
147	A	2	
148	A2	4	
149	A	2	
150	F0	2	
151	Ma	2	
152	A	1	
153	G	2	
154	B8	4	
155	F8	5	E
156	A	4	E
157	A0	2	
158	F0	5	
159	F0	3	
160	G	2	
161	G	2	
162	F	2	
163	A0	2	
164	G5	3	
165	A2	3	
166	A3	7	
167	B8	2	
168	A2	2	

Cards made out

141	+50°	1178	5	17	7.5	+50	49.4	8.7	✓
142	+50°	1172	5	15	26.5	+50	8.5	8.4	✓
143	+50°	1169	5	14	46.5	+50	63.0	9.2	✓
144	+50°	1166	5	13	35.3	+50	50.4	8.3	✓
145	+51°	1063	5	11	14.2	+51	4.5	8.0	✓
146	+51°	1059	5	10	22.0	+51	20.0	7.8	✓
147	+51°	1055	5	9	45.5	+51	16.0	9.0	✓
148	+50°	1149	5	8	31.2	+50	51.0	8.0	✓
149	+50°	1151	5	9	34.9	+50	28.2	8.5	✓
150	+50°	1156	5	11	3.7	+50	20.8	8.9	✓
151	+50°	1159	5	12	16.1	+50	4.9	8.2	✓
152	+50°	1168	5	13	51.4	+50	13.7	9.2	✓
153	+51°	1048	5	5	0.5	+51	29.0	9.0	✓
154	+51°	1047	5	4	38.5	+51	48.0	8.0	✓
155	+51°	1043	5	2	39.8	+51	14.9	8.0	✓
156	+53°	989	5	56	33.8	+53	8.5	8.0	✓
157	+53°	986	5	52	57.1	+53	49.7	9.0	✓
158	+53°	981	5	51	21.8	+53	31.2	7.0	✓
159	+52°	1023	5	48	21.4	+52	19.2	8.5	✓
160	+52°	1021	5	47	42.1	+52	23.2	8.4	✓
161	+52°	1019	5	47	16.9	+52	28.6	8.9	✓
162	+52°	1018	5	46	41.5	+52	1.1	9.0	✓
163	.	.	5	46.8		+51	39	✓	
164	+51°	1130	5	45	24.0	+51	44.0	8.5	✓
165	+51°	1127	5	44	43.7	+51	31.0	8.5	✓
166	+51°	1128	5	44	44.8	+51	46.4	7.0	✓
167	+51°	1126	5	44	34.2	+51	60.3	8.8	✓
168	+52°	1010	5	43	49.6	+52	18.2	9.1	✓

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No.	Class	Dist.	Remarks
169	B9	3	
170	Z0	2	
171	Q5	1	
172	Y5	1	
173	Q3?	2	Poor Focus
174	Y5	3	
175	K	2	
176	Q3	5	
177	Z5	2	Superposed north-preceding
178	Ma	2	" south-following
179	Z0	2	
180	Y5	2	
181	Q0	4	
182	K5	2	
183	Z8	2	
184	Z5	1	
185	~~Z~~ Q3	5	
186	Y	2	
187	Y0	5	
188	Y5	2	
189	Q0	3	
190	Y0	4	
191	Y5	2	
192	Z0	3	
193	K0	4	
194	~~K~~ Y5	3	
195	Z5	2	
196	K0	3	

169	+52°	1008	5	42	46.7	+52	12.9	8.8	V
170	+52°	1003	5	40	44.2	+52	8.4	8.9	V
171	"	"	5	48.3		+53	6	double	V
172	+53°	976	5	47	45.2	+53	31.8	8.7	V
173	+52°	1013	5	44	49.9	+52	54.7	9.0	V
174	+52°	1011	5	43	58.2	+52	57.0	8.0	V
175	+53°	967	5	44	49.9	+53	18.6	8.5	V
176	+53°	966	5	44	35.3	+53	32.0	8.2	V
177	+53°	962	5	43	50.7	+53	25.5	8.0	V
178	+53°	963	5	43	54.3	+53	25.0	9.0	V
179	+52°	1007	5	42	36.2	+52	40.9	8.8	V
180	+52°	1006	5	42	8.2	+52	35.5	8.5	V
181	+52°	1004	5	41	17.2	+52	45.3	8.5	V
182	+53°	954	5	39	15.4	+53	8.9	8.9	V
183	+53°	956	5	39	31.5	+53	22.8	8.9	V
184	+53°	953	5	39	11.9	+53	26.5	9.0	V
185	+52°	1000	5	36	59.1	+52	30.6	8.0	V
186	+52°	997	5	36	22.7	+52	38.4	9.0	V
187	+52°	994	5	33	54.5	+52	5.8	8.1	V
188	+52°	993	5	33	39.4	+52	34.5	8.2	V
189	+52°	991	5	32	41.7	+52	38.4	8.0	V
190	+52°	989	5	31	46.7	+52	23.0	7.0	V
191	+52°	986	5	30	44.7	+52	35.0	8.4	V
192	+52°	985	5	29	39.0	+52	5.9	8.0	V
193	+52°	983	5	29	6.2	+52	28.3	7.2	V
194	+52°	982	5	28	13.0	+52	48.7	8.4	V
195	+52°	973	5	24	3.2	+52	28.1	8.5	V
196	+52°	971	5	23	12.2	+52	51.2	8.1	V

Comds made out

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Dec 10, 1911 (Cont.)

I 37366

No.	Class	Int.	Remark
197	A2	4	
198	A0	3	
199	F2	3	
200	F2	5	
201	A	1	
202	A	4	Another star superposed?
203	F0	4	
204	A0	2	
205	A	2	
206	K2	2	
207	F5	2	
208	A0	2	
209	F0	6	
210	K0	2	
211	A	2	
212	F5	5	
213	B8?	4	Burned out.
214	K0	4	E
215	F0	3	E
216	A2	3	
217	K2	2	
218	F5	2	Another star superposed?
219	A2	2	
220	A	2	
221	A	2	
222	K0	7	
223	A0	4	
224	K0	3	

197	+52°	9.68	5	21	58.9	+52	32.4	7.9	v
198	+53°	9.17	5	19	30.3	+53	13.4	8.2	v
199	+53°	9.15	5	19	3.0	+53	2.0	7.7	v
200	+53°	9.12	5	18	12.6	+53	17.3	7.3	v
201	+53°	9.09	5	16	14.8	+53	23.0	9.2	v
202	+53°	9.07	5	15	51.1	+53	38.3	8.7	v
203	+53°	9.06	5	15	41.5	+53	27.7	8.1	v
204	+53°	9.03	5	13	59.1	+53	8.8	9.0	v
205	+52°	9.58	5	14	34.2	+52	29.1	9.0	v
206	+52°	9.55	5	12	58.2	+52	5.1	7.8	v
207	+51°	10.69	5	13	59.9	+51	28.9	8.9	v
208	+51°	10.64	5	12	15.0	+51	46.5	9.2	v
209	+52°	9.47	5	10	30.8	+52	3.1	8.5	v
210	+51°	10.51	5	7	11.5	+51	55.4	8.2	v
211	+52°	9.40	5	6	35.6	+52	12.9	8.9	v
212	+52°	9.42	5	7	11.5	+52	40.0	8.2	v
213	+53°	8.72	5	3	8.4	+53	1.6	6.5	v
214	+53°	8.64	5	0	18.0	+53	15.6	7.6	v
215	+53°	8.63	4	59	54.5	+53	1.3	7.9	v
216	+52°	9.53	5	12	26.8	+52	47.4	8.3	v
217	+52°	9.49	5	11	2.4	+52	35.6	8.5	v
218	+52°	9.50	5	11	3.3	+52	52.1	8.9	v
219	+53°	8.98	5	12	8.5	+53	25.4	8.9	v
220	+53°	8.94	5	11	21.6	+53	30.9	9.2	v
221	+53°	8.92	5	11	8.1	+53	28.9	9.0	v
222	+54°	8.82	5	9	30.2	+54	6.0	6.3	v
223	+54°	8.78	5	5	58.4	+54	13.5	8.5	v
224	+54°	8.74	5	6	11.8	+54	0.2	7.5	v

Cards made 1912

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Dec. 10, 1911 (Cont)

I 37366

No.	Class	Int.	Remark
225	A0	4	
226	A2	4	
227	K0	4	
228	K3	10	Burned out.
229	A	3	
230	G5	4	Poor Focus
231	F0	2	
232	F5	3	
233	A	3	
234	A	2	
235	B9	4	
236	K5	3	
237	A	2	
238	K0	6	
239	K0	3	
240	A0	2	
241	A2	4	
242	B	2	
243	K0	5	
244	Comp.?	1	Maybe two stars superposed
245	A2	2	
246	F0	2	
247	K5	6	
248	A0	2	
249	B0	4	
250	K0	3	
251	A	2	
252	A	3	Focus poor

225	+53°	869	5	2	26.7	+53	50.3	8.0	V
226	+54°	973	5	48	6.6	+54	22.3	8.5	V
227	+54°	971	5	47	51.2	+54	32.0	7.0	V
228	+54°	970	5	47	37.0	+54	15.4	4.0	V
229	+54°	963	5	45	14.4	+54	43.0	8.8	V
230	+54°	959	5	44	29.1	+54	13.7	8.3	V
231	+53°	961	5	42	43.1	+53	56.9	9.0	V
232	+53°	957	5	40	10.2	+53	46.1	9.0	V
233	+53°	952	5	39	0.3	+53	58.8	8.8	V
234	+54°	949	5	38	7.6	+54	0.1	9.3	V
235	+53°	950	5	37	9.6	+53	57.9	8.5	V
236	+54°	951	5	39	4.2	+54	38.2	8.5	V
237	+54°	947	5	37	9.5	+54	44.0	9.1	V
238	+54°	942	5	35	42.1	+54	24.0	6.5	V
239	+54°	936	5	33	43.7	+54	0.3	8.0	V
240	+54°	937	5	33	49.3	+54	21.4	9.0	V
241	+53°	941	5	33	45.2	+53	13.4	8.5	V
242	+53°	938	5	30	34.1	+53	25.7	9.1	V
243	+53°	934	5	29	36.6	+53	24.3	6.3	V
244	+53°	930	5	28	18.5	+53	26.3 / ~~18.5~~	9.0	V
245	+53°	929	5	27	42.4	+53	46.8	9.0	V
246	+53°	928	5	27	12.9	+53	28.4	8.5	V
247	+54°	914	5	24	42.0	+54	18.5	6.0	V
248	+54°	911	5	22	41.4	+54	36.7	8.8	V
249	+54°	902	5	19	36.6	+54	31.7	7.6	V
250	+54°	896	5	17	37.9	+54	1.5	7.5	V
251	+53°	919	5	20	32.8	+53	34.8	9.1	V
252	+54°	894	5	16	51.7	+54	49.1	8.5	V

Cards made out

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Dec 10, 1911 (Cont'd)

I 37366

No.	Class	Dist.	Remarks
253	A	2	
254	A	2	
255	K5	2	
256	A	2	Auxilia stat. partly superposed, much ~~dust~~ following.
257	K5	3	
258	A0	2	
259	A0	6	
260	Ma?	3	Focus poor.
261	A2	6	
262	A0	5	
263	K0	3	
264	A0?	9	Burned out.
265	A0	4	
266	A	2	
267	K	2	
268	A2	8	
269	A	2	
270	K5	1	
271	A0	6	
272	K0	4	
273	K5	2	
274	K5	2	
275	K5	4	
276	K5	4	
277	A	2	
278	K5	1	
279	A	1	
280	A	2	

253	+54°	888	5	12	58.6	+54	25.7	9.2	v
254	+54°	890	5	13	30.0	+54	0.2	9.4	v
255	+53°	901	5	13	9.6	+53	47.1	8.5	v
256	+53°	895	5	11	35.1	+53	50.6	9.0	v
257	+54°	880	5	8	28.5	+54	53.8	8.0	v
258	+54°	879	5	7	31.2	+54	46.8	8.3	v
259	+55°	977	5	5	37.5	+55	20.7	7.3	v
260	+56°	1044	5	50	0.0	+55	17.8	8.0	v
261	+55°	1036	5	47	41.2	+55	17.9	6.5	v
262	+55°	1032	5	45	31.8	+55	37.9	7.1	v
263	+55°	1028	5	44	56.7	+55	55.8	7.0	v
264	+55°	1027	5	42	42.3	+55	40.4	6.0	v
265	+55°	1022	5	39	25.7	+55	12.8	8.0	v
266	+55°	1016	5	36	46.1	+55	31.6	8.6	v
267	+55°	1014	5	35	10.0	+55	34.0	8.0	v
268	+56°	1058	5	34	18.8	+56	2.5	6.1	v
269	+55°	1012	5	32	46.7	+55	37.9	8.6	v
270	+54°	935	5	33	12.5	+54	42.0	8.7	v
271	+54°	982	5	32	1.5	+54	46.5	7.0	v
272	+55°	1009	5	31	34.8	+55	14.4	7.5	v
273	+54°	928	5	30	36.7	+54	44.5	8.5	v
274	+55°	1008	5	30	10.1	+55	18.8	9.0	v
275	+55°	1006	5	28	35.4	+55	1.1	8.0	v
276	+55°	1002	5	26	42.4	+55	38.9	8.0	v
277	+54°	913	5	24	20.2	+54	49.0	9.4	v
278	+54°	918	5	26	25.4	+54	51.4	8.5	v
279	+55°	998	5	22	38.6	+55	15.9	9.4	v
280	+55°	994	5	18	42.5	+55	12.9	9.2	v

Carbs made, 3rd

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Dec. 10, 1911 (cont.)

I 37366

No.	Class	Int.	Remarks
281	Fs	3	
282	Fs-	3	
283	Ko	4	
284	A	3	E
285	F	4	E
286	K	2	
287	Q2	7	
288	Qo	6	
289	A	2	
290	A	2	
291	K	2	E
292	Ko	6	
293	Fs	5	
294	Ko	3	
295	A	2	
296	Ao	5	
297	F8	4	E
298	K	2	
299	A	3	E
300	A	3	E

June 11, '34

281	+56°	1029	5	15	42.3	+56	9.3	7.5	v
282	+56°	1028	5	14	40.8	+56	14.8	8.4	v
283	+55°	989	5	11	34.9	+55	56.3	6.5	v
284	+56°	1080	5	44	42.5	+56	56.0	8.4	v
285	+56°	1077	5	41	41.2	+56	59.5	7.8	v
286	+56°	1073	5	40	19.7	+56	1.5	8.5	v
287	+56°	1065	5	38	12.5	+56	51.6	6.6	v
288	+56°	1059	5	34	33.0	+56	50.6	6.6	v
289	+56°	1056	5	33	39.5	+56	39.2	9.0	v
290	+56°	1053	5	32	36.0	+56	45.7	9.0	v
291	+57°	910	5	32	24.6	+57	9.8	7.8	v
292	+56°	1050	5	30	45.8	+56	30.6	6.5	v
293	+56°	1044	5	26	52.6	+56	16.8	6.9	v
294	+56°	1041	5	25	12.8	+56	22.8	7.3	v
295	+56°	1040	5	24	0.5	+56	17.7	8.3	v
296	+56°	1035	5	22	5.1	+56	9.4	8.0	
~~296~~	~~+57°~~	~~910~~	~~5~~	~~32~~	~~24.6~~	~~+57~~	~~9.8~~	~~7.8~~	~~v~~
297	+57°	889	5	20	11.4	+57	6.7	6.6	v
298	+56°	1042	5	26	38.2	+56	51.7	8.3	v
299	+57°	902	5	28	2.4	+57	4.0	9.8	v
300	+56°	1014	5	1	47.7	+56	19.7	7.8	v

Cards made out

Identified by A. S. D.: 12-14-'11

Checked by J. C. M. Dec. 21, '11

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Dec. 11, 1911

Time 9.54 — I 37010

No.	Class	Int.	Remark
1	A2	3	
2	A2	5	
3	Bq	7	
4	A	1	
5	B8?	2	Near Edge
6	G	3	
7	G5	3	
8	A	5	Near Edge
9	G	4	"
10	A	3	
11	A	1	
12	G5	6	
13	F5	5	
14	B8	7	
15	F0	2	
16	K	8	Line K seems to narrow. Mayb. Comp. Look up
17	A2	3	
18	F8	2	
19	A3	5	
20	A0	3	
21	F5	2	
22	A2	3	
23	F2	3	
24	A0	4	
25	B3?	10+	
26	G5	2	
27	A2	3	

Comb made out

1	+41°	870	4	16	0.2	+41	52.9	7.3	v
2	+41°	861	4	14	26.4	+41	23.0	7.0	v
3	+42°	946	4	13	31.8	+42	4.7 31.6	6.5	v
4	+42°	952	4	14	13.8	+42	19.3	8.5	v
5	+42°	960	4	15	58.0	+42	18.3	8.0	v
6	+42°	964	4	16	40.0	+42	34.9	8.0	v
7	+42°	969	4	17	33.1	+42	51.4	7.2	v
8	+43°	977	4	17	43.1	+43	0.1	7.2	v
9	+39°	980	4	12	9.7	+39	35.3	7.4	v
10	+41°	858	4	11	44.0	+41	4.2	8.0	v
11	+41°	863	4	10	28.0	+41	4.8	8.0	v
12	+41°	852	4	10	16.1	+41	27.5	6.5	v
13	+42°	938	4	9	11.7	+42	1.5	7.1	v
14	+41°	844	4	8	6.9	+41	47.3	6.4	v
15	+41°	837	4	6	36.5	+41	28.9	8.0	v
16	+40°	918	4	6	1.5	+40	6.3	4.8	v
17	+40°	903	4	1	33.3	+40	32.0	7.0	v
18	+39°	937	3	59	24.5	+39	46.4	7.8	v
19	+41°	818	3	59	3.6	+41	7.3	7.0	v
20	+41°	815	3	58	25.9	+41	6.2	7.5	v
21	+40°	881	3	54	40.1	+40	41.8	8.0	v
22	+39°	911	3	52	4.7	+39	33.8	7.3	v
23	+39°	909	3	51	33.0	+39	41.8	7.0	v
24	+39°	904	3	50	26.8	+39	35.8	7.4	v
25	+39°	895	3	48	9.1	+39	35.4	3.2	v
26	+39°	880	3	42	51.0	+39	55.4	7.5	v
27	+40°	847	3	42	21.6	+40	21.6	7.2	v

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I 37010

No.	Class	Int.	Remark
28	Ao	3	
29	Ao	5	E
30	F5	10	Burned out
31	F5	3	
32	K2	2	
33	A	2	Bov focus
34	A2	5	
35	B9	4	
36	F0	3	
37	A5	3	
38	F5	3	
39	G5	3	
40	B8	7	
41	K0	2	
42	A0	3	
43	G5	3	
44	F8	2	
45	A2	4	
46	A0	3	
47	A2	2	
48	A	3	
49	A2	6	
50	A3	2	
51	B9	5	
52	A0	5	
53	B0	3	
54	F8	2	
55	A0	3	

28	+ 40°	842	3	39	15.0	+ 40	13.6	7.3	M
29	+ 41°	742	3	35	43.6	+ 41	33.9	7.5	M
30	+ 42°	815	3	35	22.5	+ 42	7.6	4.1	M
31	+ 43°	951	4	12	27.1	+ 43	6.1	7.5	M
32	+ 42°	939	4	10	24.6	+ 42	53.4	7.5	M
33	+ 43°	946	4	10	3.7	+ 43	14.8	8.2	M
34	+ 43°	938	4	8	20.4	+ 43	21.6	7.0	M
35	+ 43°	935	4	7	51.4	+ 43	18.9	7.0	M
36	+ 42°	921	4	3	56.9	+ 42	12.4	8.0	M
37	+ 41°	830	4	2	37.6	+ 41	44.7	7.3	M
38	+ 42°	916	4	2	16.9	+ 42	31.7	8.2	M
39	+ 41°	826	4	1	16.1	+ 41	22.0	7.0	M
40	+ 42°	897	3	58	9.0	+ 42	48.0	6.5	M
41	+ 42°	896	3	57	57.5	+ 42	47.5	6.7	M
42	+ 42°	893	3	57	21.5	+ 42	53.3	8.2	M
43	+ 43°	892	3	56	22.4	+ 43	1.3	7.3	M
44	+ 42°	878	3	54	8.7	+ 42	7.2	7.8	M
45	+ 41°	802	3	53	36.1	+ 41	48.7	7.8	+ 41° 80i superposed? M
46	+ 41°	798	3	53	13.6	+ 41	31.4	7.5	M
47	+ 41°	795	3	52	11.6	+ 41	26.0	7.5	M
48	+ 41°	792	3	50	39.9	+ 41	50.6	7.5	M
49	+ 41°	779	3	47	24.3	+ 41	27.0	7.0	M
50	+ 42°	833	3	41	38.5	+ 42	10.3	8.0	M
51	+ 42°	824	3	38	31.0	+ 42	25.2	7.8	M
52	+ 45°	921	4	10	33.0	+ 45	6.4	7.9	M
53	+ 44°	901	4	8	2.9	+ 44	19.4	7.8	M
54	+ 45°	906	4	7	41.9	+ 45	15.1	8.5	M
55	+ 44°	893	4	6	30.1	+ 44	18.8	8.0	M

Cards made out

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Dec. 11, 1911 (Cont)

I 37010

No.	Class	Int.	Remark
56	F5	3	
57	A0	5	
58	F2	2	
59	A	1	
60	B9	3	
61	A3	2	
62	F5	4	
63	A3	5	
64	A	2	
65	A3	2	
66	A	3	
67	A0	5	
68	A2	2	
69	F0	7	
70	B9	5	
71	F0	7	
72	A5	3	
73	B9	8	Partly superposed on 74
74	A	3	" " on 73
75	F2	3	
76	A5	6	
77	F5	4	
78	F?	4	E
79	F5?	10	Burned out.
80	A3	4	
81	K2	1	
82	B9	3	
83	F2	2	

Circles made out

56	+45°	898	4	5	24.8	+45	19	8.1	N
57	+44°	890	4	4	57.0	+44	23.9	7.5	N
58	+44°	881	4	3	57.9	+44	22.6	7.7	N
59	+43°	924	4	2	48.8	+43	46.8	8.6	N
60	+43°	916	4	1	11.9	+43	58.3	8.1	N
61	+43°	912	4	0	29.0	+43	42.8	8.5	N
62	+44°	862	3	58	7.3	+44	17.4	7.5	N
63	+43°	884	3	58	54.3	+43	34.9	7.7	N
64	+42°	879	3	54	13.4	+42	38.0	8.0	N
65	+43°	882	3	53	37.5	+43	31.5	8.4	N
66	+42°	856	3	48	16.5	+42	41.0	8.5	N
67	+42°	~~862~~ 855	3	~~49~~ 47	~~34.4~~ 26.7	+42	~~56.0~~ 53.7	~~8.8~~ 7.4	N
68	+43°	832	3	42	8.8	+43	13.6	8.6	N
69	+43°	818	3	39	9.9	+43	30.3	6.2	N
70	+43°	809	3	37	17.4	+43	36.8	7.0	N
71	+44°	801	3	40	0.8	+44	30.3	5.8	N
72	+44°	797	3	37	58.9	+44	53.8	7.8	N
73	+45°	811	3	35	51.9	+45	14.0	6.2	N
74	+45°	808	3	35	47.7	+45	7.6	8.0	N
75	+44°	790	3	35	27.9	+44	53.1	7.8	N
76	+45°	804	3	34	33.6	+45	39.2	6.5	N
77	+46°	884	4	16	51.8	+46	32.2	7.0	N
78	+45°	931	4	15	2.9	+45	49.0	7.5	N
79	+46°	872	4	11	6.9	+46	9.1	5.1	N
80	+45°	905	4	6	52.9 58.6	+46	51.0 50.4	8.5 7.0	N
81	+46°	869	4	6	50.7	+46	19.5	7.9	N
82	+46°	857	4	6	18.7	+46	23.2	7.9	N
83	+45°	896	4	4	55.9	+45	55.6	8.0	N

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Dec. 11, 1911 (Court)

I 370 10

No.	Class	Int.	Remark
84	Bs	3	
85	Q2	6	
86	A5	2	
87	Q5	7	
88	A5	2	
89	A	3	
90	B5	3	
91	Q3	2	
92	Bq	3	
93	A	1	
94	F5	2	
95	B5	7	Burnham est. Lire 3819 nearly.
96	A	1	
97	B5	2	
98	A	1	
99	Q2	2	
100	Q3	4	
101	B8	3	
102	Q2	2	
103	A	2	Another star superposed?
104	Q3	2	
105	Q2	3	
106	Q2	4	
107	A	2	Another star superposed?
108	Q3	4	
109	Bq?	10+	Identified from trail
110	Q3	6	
111	Q2	8	

84	+45°	887	3	0	51.4	+45	1.7	7.4	N
85	+45°	881	3	58	34.9	+45	50.5	7.3	N
86	+45°	868	3	55	25.2	+45	12.8	8.6	N
87	+46°	840	3	55	39.8	+46	31.6	7.2	N
88	+46°	836	3	52	19.7	+46	34.2	8.2	N
89	+47°	929	3	51	54.2	+47	4.8	8.1	N
90	+47°	927	3	51	2.4	+47	1.9	7.3	N
91	+47°	923	3	49	54.9	+47	9.7	8.2	N
92	+47°	921	3	49	16.7 / 15.8	+47	43.9 / 43.3	8.1 / 9.2	N
93	+47°	916	3	46	39.1	+47	2.5	9.0	q
94	+47°	915	3	46	18.3	+47	2.4	8.4	N
95	+47°	912	3	45	32.6	+47	27.5	6.0	N
96	+47°	910	3	44	18.6	+47	13.2	8.8	N
97	+46°	815	3	43	13.1	+46	28.2	8.0	N
98	+46°	820	3	45	53.1	+46	32.2	9.0	N
99	+44°	836	3	51	38.0	+44	8.0	8.7	N
100	+44°	826	3	49	18.3	+44	3.7	7.7	N
101	+45°	840	3	44	17.2	+45	20.5	8.3	N
102	+45°	834	3	43	28.6	+45	19.5	8.3	N
103	+45°	833	3	42	50.7	+45	31.3	8.0	+ 45° 832 superposed! N
104	+45°	822	3	40	25.2	+45	48.5	9.0	q
105	+46°	809	3	41	20.8	+46	39.6	8.0	N
106	+46°	802	3	38	46.6	+46	20.9	8.0	N
107	+46°	800	3	38	31.1	+46	13.9	8.2	N
108	+47°	881	3	35	7.6	+47	11.0	7.8	N
109	+47°	876	3	32	39.1	+47	19.6	3.5	N
110	+49°	1155	4	8	22.5	+49	41.0	6.0	N
111	+49°	1150	4	7	22.2	+49	56.8	4.8	N

Comb made out

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Dec. 11, 1911 (Cont)

I 37010

No.	Class	Dist.	Remark
112	B5	9	Burned out.
113	B5	2	
114	B5?	10	Burned out.
115	F5	2	
116	A	4	E
117	Q0?	9	Burned out. E.
118	K0	2	
119	F5	4	
120	K	2	
121	B9?	4	Poor focus
122	Q0	2	
123	K0	6	
124	B5	4	
125	Q2	3	
126	K0	3	

June 10.22

112	+48°	1063	4′	4″	17.0	+48	2.2	4.2	N
113	+48°	1059	4′	2″	58.9	+48	41.8	7.0	N
114	+47°	939	3′	58″	8.8	+47	20.1	4.5	N
115	+46°	848	4′	0″	52.7	+46	32.2	8.0	N
116	+49°	1108	3′	58″	0.2	+49	48.4	7.3	+49° 1106 superposed? N
117	+49°	1101	3′	55″	49.4	+49	57.3	4.2	N
118	+48°	1032	3′	53″	20.5	+48	15.2	7.9	N
119	+48°	1029	3′	52′	46.5	+48	26.5	7.0	N
120	+48°	1024	3′	48′	48.0	+48	20.1	7.5	N
121	+48°	1019	3′	44′	52.0	+48	36.9	7.0	N
122	+48°	1018	3′	44′	27.9	+48	22.3	8.2	N
123	+48°	1015	3′	43′	9.3	+48	12.8	6.2	N
124	+47°	893	3′	39′	10.8	+47	31.5	7.5	N
125	+47°	880	3′	34′	53.0	+47	42.2	8.3	N
126	+48°	984	3′	33′	44.0	+48	3.8	6.5	N

Cannot measure out

Identified by A.D.Fr. 12-16-'11

Checked by J.C.M. Dec. 26'11

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Dec. 11, 1911

Time 10:30

I 37391

No.	Class	Dist.	Remark
1	Q5	5	E
2	Q5	3	E
3	Q	3	
4	Q3	3	
5	Q3	6	E
6	F5v	28	E
7	Q	2	E
8	F5	2	
8a	F0	2	
9	F0	3	
10	Q2	2	
11	K0	5	
12	K0	4	
13	K	2	
14	F	1	
15	Q0	3	
16	Q2	7	
17	B9	4	
18	Q2	7	
19	K2	3	
20	Q	3	E
21	B0	6	
22	K0	2	
23	Q0	3	
24	F5	3	
25	Q	2	
26	K0	3	
27	B9	3	

1	+41° 1304	5	45.7	+41 17.5 7.0 ✓
2	+40° 1446	5	43.4	+40 22.8 8.1 ✓
3	+40° 1433	5	41.9	+40 55.2 7.8 ✓
4	+40° 1424	5	40.1	+40 3.1 7.4 ✓
5	+40° 1403	5	35.7	+40 26.4 6.6 ✓
6	+40° 1397	5	34.2	+40 19.9 8.2 ✓
7	+39° 1388	5	33.2	+39 53.8 8.2 ✓
8	+39° 1387	5	32.3	+39 43.3 8.5 ✓
8a	+39° 1379	5	31.0	+39 33.1 7.9 ✓
9	+39° 1377	5	30.4	+39 45.0 7.7 ✓
10	+39° 1373	5	29.9	+39 47.7 7.8 ✓
11	+40° 1346	5	28.7	+40 5.0 6.7 ✓
12	+39° 1321	5	20.6	+39 42.6 7.7 ✓
13	+40° 1310	5	20.2	+40 23.5 7.2 ✓
14	+40° 1296 1297	5	17.9 18.2 18.0	+40 13.8 8.5 ✓ 13.8 8.5 14.0 9.0
15	+40° 1291	5	17.4	+40 31.1 7.7 ✓
16	+40° 1268	5	12.6	+40 52.7 6.0 ✓
17	+40° 1255	5	10.7	+40 43.7 7.8 ✓
18	+40° 1253	5	10.1	+40 56.0 5.8 ✓
19	+40° 1245	5	8.8	+40 56.2 7.9 ✓
20	+39° 1255	5	10.0	+39 38.0 7.9 ✓
21	+39° 1248	5	8.9	+39 58.8 4.9 ✓
22	+40° 1240	5	8.5	+40 18.0 6.7 ✓
23	+43° 1379	5	45.0	+43 38.2 8.2 ✓
24	+44° 1308	5	44.1	+44 28.6 8.5 ✓
25	+44° 1306	5	42.9	+44 14.8 8.3 ✓
26	+44° 1303	5	42.2	+44 20.6 7.9 ✓
27	+43° 1364	5	40.3	+43 38.2 8.0 ✓

+39° 1322 superposed

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Dec. 11, 1911 (Cont.)

I 37391

No.	Class	Int.	Remark
28	A2	5	
29	A0	2	
30	K0	4	
31	Ma v	1	
32	B8	5	
33	K0	5	
34	A3	3	
35	K0	5	
36	K5	3	
37	A	2	
38	F8	5	
39	A	2	
40	A	2	
41	A	2	
42	K5	2	
43	B8	6	
44	K0	5	
45	A0	3	
46	A	2	
47	B5	4	
48	A	2	
49	B5	4	
50	A	2	
51	A2	4	
52	A	2	
53	K0	4	
54	B5	8	

28	+43° 1362	5	40.1	+43	57.6	7.3 ✓
29	+42° 1404	5	38.0	+42	0.3	8.5 ✓
30	+42° 1396	5	36.9	+42	27.8	6.8 ✓
31	+42° 1387	5	35.2	+42	47.4	8.0 ✓
32	+41° 1257	5	33.1	+41	2.8	7.3 ✓
33	+41° 1256	5	32.9	+41	37.5	7.0 ✓
34	+40° 1369	5	30.9	+40	47.8	7.5 ✓
35	+41° 1240	5	28.9	+41	16.2	7.0 ✓
36	+41° 1238	5	28.4	+41	45.2	7.0 ✓
37	+41° 1233	5	27.1	+41	58.7	9.0 ✓
38	+41° 1231	5	26.8	+41	44.1	7.3 ✓
39	+41° 1230	5	26.7	+41	10.4	8.3 ✓
40	+41° 1227	5	25.5	+41	12.0	8.3 ✓
41	+41° 1226	5	25.2	+41	26.0	8.5 ✓
42	+41° 1222	5	24.1	+41	0.6	7.5 ✓
43	+41° 1218	5	23.2	+41	59.9	6.8 ✓
44	+41° 1206	5	20.6	+41	20.2	6.7 ✓
45	+41° 1205	5	20.0	+41	10.0	7.6 ✓
46	+42° 1305	5	19.6	+42	5.8	9.0 ✓
47	+42° 1298	5	18.7	+42	8.9	6.9 ✓
48	+42° 1291	5	17.6	+42	12.8	8.2 ✓
49	+41° 1181	5	14.2	+41	40.9	8.2 ✓
50	+41° 1175	5	13.4	+41	27.4	8.7 ✓
51	+42° 1273/4	5	14.0	+42	27.8 / 28.3	8.5 / 8.0 ✓
52	+42° 1264	5	12.3	+42	29.8	8.8 ✓
53	+42° 1258	5	11.6	+42	8.1	7.0 ✓
54	+41° 1162	5	11.6	+41	39.5	6.0 ✓

Carbon mark out

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Dec. 11, 1911 (cont)

I 37391

No.	Class	Inst.	Remark
55	Bg	4	
56	G5	2	
57	F5	3	
58	Mb	5	
59	F	2	
60	Bo	3	
61	A	2	
62	Ma	7	
63	Ao	5	
64	G5	5	
65	A	2	
66	Ao	3	
67	Fo	3	
68	Ao	3	
69	Ao	2	
70	B5	3	
71	B3	5	
72	Ma	4	Another star superposed
73	A3	2	
74	K5	4	
75	A3	2	
76	F5	2	
77	F5	2	
78	F5	3	
79	A5	3	
80	A2	2	
81	G5	3	
82	A	2	

55	+42° 1253	5	10.7	+42	21.0	7.1 ✓
56	+42° 1252	5	10.6	+42	12.6	7.8 ✓
57	+41° 1143	5	8.1	+41	57.0	8.0 ✓
58	+42° 1239	5	7.9	+42	37.9	6.0 ✓
59	+42° 1228	5	6.2	+42	29.2	7.9 ✓
60	+42° 1227	5	5.8 (9)	+42	35.7	7.4 ✓
61	+41° 1127	5	5.3	+41	40.7	8.1 ✓
62	+45° 1217	5	49.2	+45	54.7	4.8 ✓
63	+45° 1216	5	48.7	+45	35.9	7.2 ✓
64	+45° 1205	5	46.9	+45	52.0	7.1 ✓
65	+45° 1194	5	44.1	+45	18.0	8.5 ✓
66	+45° 1181	5	39.5	+45	2.3	7.9 ✓
67	+45° 1178	5	38.1	+45	10.9	8.0 ✓
68	+44° 1278	5	35.6	+44	42.9	7.3 ✓
69	+44° 1281	5	36.0	+44	1.4	8.2 ✓
70	+43° 1338	5	33.8	+43	28.9	7.5 ✓
71	+42° 1376	5	31.9	+42	58.5	7.5 ✓
72	+42° 1362	5	29.1	+42	35.0	7.4 ✓
73	+42° 1355	5	28.5	+42	18.4	8.2 ✓
74	+43° 1325	5	29.6	+43	13.9	7.2 ✓
75	+43° 1326	5	29.8	+43	38.5	8.3 ✓
76	+43° 1320	5	28.9	+43	37.1	7.9 ✓
77	+42° 1357 (4)	5	28.5 (0)	+42	57.5 (55.1)	9.0 (8.4) ✓
78	+42° 1345	5	26.3	+42	25.3	8.4 ✓
79	+42° 1333 (4)	5	23.8 (24.1)	+42	16.7 (20.0)	4.0 (8.4) ✓
80	+42° 1311 (3)	5	25.3	+42 (3)	3.3	8.7 ✓
81	+43° 1310	5	24.9	+43	8.6	7.5 ✓
82	+42° 1323	5	22.4	+42	51.2	8.3 ✓

Cloudy most of night

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Dec 11, 1911 (Cont'd)

I 37391

No.	Class	Dist.	Remarks
83	Fo	2	
84	A	3	
85	Ao	6	
86	F8	2	
87	Ko	3	
88	K	2	
89	K2	2	
90	Bq	3	
91	Ko	4	
92	A	2	
93	A	3	
94	Fo	3	
95	A2	2	Partly superposed on 93
96	K3	2	
97	Fo	2	
98	Ao	5	
99	F5	4	
100	B	5	E. Faces pos. Lines very indistinct. Confirm
101	A	3	
102	F5	3	
103	G3	3	
104	A3	3	
105	A	2	
106	K	1	
107	G	10+	Burned extra
108	B?	4	Lines very indistinct
109	B8	3	
110	B5	4	

83	+42°	1317	5	22.0	+42	17.9	7.5 ✓
84	+42°	1312	5	21.6	+42	22.7	8.0 ✓
85	+43°	1272	5	17.2	+43	14.5	6.8 ✓
86	+43°	1268	5	16.6	+43	31.1	8.2 ✓
87	+43°	1270	5	16.7	+43	52.4	7.4 ✓
88	+44°	1203	5	17.3	+44	2.3	7.8 ✓
89	+44°	1185	5	15.0	+44	15.4	8.2 ✓
90	+43°	1250	5	10.5	+43	15.5	8.0 ✓
91	+44°	1170	5	9.5	+44	16.4	7.0 ✓
92	+44°	1167	5	8.7	+44	29.8	8.5 ✓
93	+44°	1165	5	8.6	+44	30.8	8.5 ✓
94	+45°	1090	5	8.3	+45	5.3	8.1 ✓
95	+45°	1091	5	8.6	+45	3.9	8.8 ✓
96	+45°	1094	5	9.7	+45	16.4	8.7 ✓
97	+45°	1099	5	10.3	+45	6.6	8.7 ✓
98	+44°	1182	5	11.6	+44	55.8	7.4 ✓
99	+44°	1146	5	5.0	+44	10.2	8.0 ✓
100	+44°	1128	5	2.6	+44	22.9	7.0 ✓
101	+44°	1126	5	2.1	+44	14.8	7.5 ✓
102	+44°	1117	5	1.0	+44	32.6	8.0 ✓
103	+43°	1221	5	2.6	+43	51.0	8.0 ✓
104	+43°	1214	5	1.8	+43	15.6	8.0 ✓
105	+44°	1158	5	7.5	+44	39.4	8.6 ✓
106	+46°	1081	5	6.8	+45	18.4	8.4 ✓
107	+45°	1077	5	6.0	+45	50.6	1.0 ✓
108	+46°	989	5	5.7	+46	14.9	7.1 ✓
109	+46°	985	5	4.8	+46	13.5	7.7 ✓
110	+47°	1167	5	4.4	+47	0.1	7.0 ✓

Curve needs adj

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Dec. 11, 1911 (cont)

I 37391

No.	Class	Dist.	Remark
111	B8	4	
112	A	3	
113	F8	5	
114	Q2	3	
115	A	4	E
116	A	3	E
117	F	3	E
118	A	3	E
119	A0	2	
120	G5	2	
121	A0	2	
122	K0	3	
123	F8	2	
124	A	2	
125	B8	5	
126	B9	3	
127	K0	3	
128	A2	5	
129	A3	3	
130	G5	2	
131	G5	4	
132	F8	3	Maybe Comp. Look up
133	F5	4	
134	B9	5	
135	B8	4	
136	F5	3	
137	A	3	
138	A	2	

111	+46°	979	5	3.0	+46	48.0	7.6 ✓
112	+46°	972	5	0.9	+46	45.3	8.0 ✓
113	+46°	970	4	59.9	+46	46.6	6.0 ✓
114	+45°	1067 (2)	5	1.2	+45	28.0 32.6	8.0 ✓
115	+46°	1075	5	48.7	+46	30.0	7.0 ✓
116	+46°	1074	5	48.5	+46	53.9	7.9 ✓
117	+46°	1073	5	47.1	+46	39.8	7.8 ✓
118	+47°	1214	5	45.4	+47	40.8	7.3 ✓
119	+47°	1211	5	48.0	+47	5.4	7.8 ✓
120	+46°	1060	5	41.5	+46	45.2	7.5 ✓
121	+46°	1054	5	40.2	+46	15.3	8.5 ✓
122	+46°	1052	5	37.4	+46	39.4	6.5 ✓
123	+46°	1051	5	37.0	+46	55.0	8.0 ✓
124	+45°	1170	5	36.3	+45	42.1	8.0 ✓
125	+47°	1194	5	36.0	+47	23.6	7.5 ✓
126	+47°	1193	5	35.4	+47	51.1	7.5 ✓
127	+47°	1189	5	32.9	+47	38.3	7.1 ✓
128	+44°	1270	5	32.4	+44	45.9	7.3 ✓
129	+45°	1156	5	30.0	+45	37.3	7.9 ✓
130	+45°	1150	5	28.4	+45	20.8	7.5 ✓
131	+44°	1252	5	26.9	+44	29.6	7.1 ✓
132	+43°	1315	5	26.8	+43	58.7	7.3 ✓
133	+44°	1247	5	25.6	+44	12.8	7.2 ✓
134	+43°	1301	5	23.6	+43	49.6	7.2 ✓
135	+44°	1227	5	22.0	+44	16.2	7.6 ✓
136	+44°	1232	5	23.2	+44	40.9	7.8 ✓
137	+44°	1246	5	25.6	+24	39.0	8.0 ✓
138	+44°	1239	5	24.8	+44	49.8	8.5 ✓

Carr mind

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Dec. 11, 1911 (cont)

I 37391

No.	Class	Sect.	Remark
139	Bg	3	
140	A	2	
141	Bg	2	
142	A	3	
143	G	1	Partly superposed on 144
144	F8	3	
145	Ko	3	
146	A	2	
147	A	1	
148	A	1	
149	A	2	
150	K	1	
151	Ap	5	A trace of K band spec. May be Comp.
152	Ko	2	
153	A	3	
154	A	3	
155	G	2	
156	Ao	3	
157	Ko	2	
158	G5	2	
159	Fo	7	
160	A	1	
161	K2	2	
162	A	1	
163	Ap	3	
164	Bg	4	
165	K	2	
166	F	2	

139	+45° 1145	5	26.7	+45	34.1 8.0 ✓
140	+45° 1144	5	25.0	+46	23.3 8.0 ✓
141	+45° 1137	5	23.5	+45	8.9 8.8 ✓
142	+45° 1133	5	22.5	+45	37.1 8.3 ✓
143	+45° 1132	5	22.0	+45	22.8 7.5 ✓
144	+45° 1131	5	22.0	+45	26.3 7.5 ✓
145	+44° 1206	5	17.4	+44	47.0 7.8 ✓
146	+45° 1115	5	14.7	+45	5.4 8.3 ✓
147	+45° 1113	5	13.9	+45	18.3 9.0 ✓
148	+45° 1108	5	12.5	+45	29.3 8.9 ✓
149	+45° 1102	5	10.9	+45	58.0 9.0 ✓
150	+46° 999	5	11.1	+46	33.4 8.4 ✓
151	+46° 998	5	9.8	+46	48.8 8.0 ✓
152	+45° 1084	5	7.1	+45	57.6 7.8 ✓
153	+47° 1126	5	8.0	+47	8.3 8.0 ✓
154	+47° 1124	5	7.7	+47	9.9 8.2 ✓
155	+46° 993	5	7.6	+46	52.6 8.0 ✓
156	+46° 1031	5	27.3	+46	6.5 8.7 ✓
157	+46° 1030	5	26.6	+46	43.6 8.0 ✓
158	+47° 1180	5	26.3	+47	51.1 7.2 ✓
159	+47° 1178	5	25.3	+47	38.7 6.0 ✓
160	+47° 1176	5	25.0	+47	52.8 8.8 ✓
161	+47° 1174	5	24.6	+47	58.7 7.5 ✓
162	+47° 1171	5	22.1	+47	28.0 9.2 ✓
163	+46° 1023	5	22.3	+46	46.3 7.3 ✓
164	+47° 1168	5	21.3	+47	5.0 7.5 ✓
165	+46° 1025	5	23.3	+46	5.1 8.7 ✓
166	+47° 1164	5	19.9	+47	47.5 8.3 ✓

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Dec. 11, 1911 (Cont)

I 37391

No.	Class	Int.	Remark
167	A	1	
168	B5	2	
169	K5	3	
170	K	2	
171	K	1	
172	B8	3	
173	K	2	
174	K5	3	
175	B	2	
176	F5	2	
177	A	1	
178	K	2	
179	A3	2	
180	A	2	Another star superposed

Time 11:14 ~~PM~~

181	A3	5						

167	+47°	1160	5	18.7	+47	30.0	8.6	✓
168	+47°	1158	5	18.5	+47	53.0	7.8	✓
169	+48°	1273	5	17.0	+48	5.8	6.2	✓
170	+47°	1152	5	16.6	+47	11.7	8.0	✓
171	+46°	1015	5	15.4	+46	41.2	8.0	✓
172	+46°	1012	5	14.4	+46	49.1	8.2	✓
173	+46°	1008	5	12.6	+46	39.2	8.3	✓
174	+46°	1007	5	12.4	+46	52.7	7.0	✓
175	+46°	1006	5	12.2	+46	50.5	8.4	✓
176	+46°	1020	5	19.1	+46	26.0	8.4	✓
177	+46°	1022	5	21.6	+46	1.6	9.0	✓
178	+45°	1126	5	19.5	+46	41.1	7.5	✓
179	+45°	1121	5	16.2	+45	27.4	8.8	✓
180	+44°	1275	5	19.2	+44	41.0	8.8	✓

Sent by J. C. M. Jan 15'12.
Checked by A.M.C. April 1, 1912

181	+48	1226	4	58.0	+48	56	7.0	78 in B 38125

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December 15, 1911

Time 9:50 B10635

No.	Class	Int.	Remarks
1	Bg	6	
2	B5	2	
3	Ko	4	
4	Ao	5	
5	K	2	
6	F5	3	
7	G	2	
8	F8	2	
9	Ao	6	
10	Fo	4	
11	B5	3	
12	G5	5	
13	Fo	7	
14	Ma	2	
15	Ko	8	
16	F5	3	
17	K5	2	
18	Ko	6	
19	Ko	3	
20	B5	2	
21	Ao	8	
22	Ko	6	E
23	Fo	6	
24	K2	2	
25	B5	5	
26	Ko	7	
27	B	4	

			R.A. 1900	Dec. 1900			
1	AGC 1025	1	1.8	-36 12	6.5	GDM -36° 417	✓
2	AGC 1084	1	5.5	-37 5	8¼	-37° 434	J
3	AGC 1132	1	8.2	-35 44	6.9	-35 420	✓
4	AGC 1134	1	8.3	-36 17	7¾	-36 460	J
5	AGC 1150	1	9.3	-36 43	8½	-36 470	✓
6	AGC 1158	1	9.8	-37 32	8	-37° 467	✓
7	AGC 1216	1	13.2	-37 3	8½	-37 493	✓
8	GDM -36° 501	1	12.8	-36 54.6	8.3		✓
9	AGC 1265	1	15.6	-36 46	7	-36° 510	✓
10	AGC 1244	1	14.7	-35 1	8	-35 452	J
11	AGC 1305	1	17.9	-35 11	7¾	-35 472	✓
12	AGC 1310	1	18.1	-37 7	6.6	-37° 521	✓
13	AGC 1301	1	17.6	-37 34	6.6	-37° 516	✓
14	AGC 1417	1	24.3	-37 21	7¼	-37° 564	J
15	AGC 1493	1	28.4	-37 22	5.8	-37° 589	✓
16	GDM -37° 593	1	27.7	-37 57.4	8.0		J
17	AGC 1549	1	31.5	-36 58	7¾	-37° 603	✓
18	AGC 1590	1	34.0	-37 2	6.2	-37° 620	J
19	AGC 1612	1	35.2	-37 58	8	-37° 573	✓
20	AGC 1632	1	36.1	-36 59	7¼	-37° 641	✓
21	AGC 1661	1	37.6	-37 20	5.9	-37° 650	✓
22	AGC 1756	1	43.4	-37 39	6.5	-37° 687	!
23	AGC 1648	1	37.1	-38 38	6.4	-38° 584	✓
24	AGC 1579	1	33.1	-38 38	7¼	-38° 656	!
25	AGC 947	0	56.9	-38 45	6.6	-38° 344	✓
26	AGC 943	0	56.7	-39 28	5.6	-39° 260	J
27	AGC 882	0	0.1	-40 0	8	-40° 239	✓

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Dec. 15, 1911 (Cont)
B 10635

No.	Class	Int.	Remark
28	Ko	4	
29	fo	5	
30	y	3	Partly superposed on 31
31	a3	6	
32	K5	3	
33	a2	3	
34	K	2	
35	fo	6	
36	f8	3	
37	fo	8	
38	go	2	
39	f8	5	
40	Ko	3	
41	a5	3	
42	fo	2	
43	g5	3	
44	fo	3	
45	K5	2	
46	go	2	
47	f2	7	
48	fo	2	
49	a	3	
50	a	3	
51	Ko	5	E
52	f?	4	E
53	f	6	E
54	fo	3	
55	Ko	10	

28	AGC	1026	1	1.9	−40	24	7.0	CDm −40° 247 ✓
29	AGC	1003	1	0.8	−40	48	7.0	−40° 240 ✓
30	AGC	984	0	59.5	−41	4	7	−41° 263¼ ✓
31	AGC	981	0	59.4	−41	11	7.0	−41° 263 ✓
32	AGC	972	0	58.7	−41	33	7.0	−41° 260 ✓
33	AGC	1078	1	4.9	−40	41	8¾	−40° 256 ✓
34	AGC	1148 1200	1	7.4 12.3	−39 −40	42 4	8½ 8¼	−39° 316 ✓
35	AGC	1143	1	8.8	−40	4	7¼	−40° 273 ✓
36	AGC	1186	1	11.2	−40	29	8¼	−40° 284 ✓
37	AGC	1133	1	8.2	−38	23	6.1	−38° 420 ✓
38	AGC	1206 1143	1	12.3 8.8	−40 −40	4 4	8¼ 7¼	−40° 291 ✓
39	AGC	1254	1	15.0	−39	53	7¾	−40° 309 ✓
40	AGC	1350	1	20.6	−39	54	8½	−40° 336 ✓
41	AGC	1360	1	21.1	−38	42	8¾	−38 491 ✓
42	AGC	1398	1	23.3	−38	11	8	−38 499 ✓
43	AGC	1412	1	24.1	−38	28	8	−38° 505 ✓
44	AGC	1446	1	26.3	−38	18	7¾	−38° 518 ✓
45	AGC	1458	1	26.8	−38	56	8¼	−39° 439 ✓
46	CDm −38° 528		1	27.7	−38	53.2	7.9	−38° 528 ✓
47	AGC	1548	1	31.5	−40	27	6.6	−40° 395 ✓
48	AGC	1565	1	32.4	−40	39	8½	−40° 299 ✓
49	AGC	1577	1	33.0	−40	41	8¼	−40° 404 ✓
50	AGC	1664	1	37.8	−41	37	8¾	−41° 466 ✓
51	AGC	1750	1	43.1	−42	15	6.4	−42° 633 ✓
52	AGC	1751	1	43.1	−43	8	7	−43° 532 ✓
53	AGC	1596	1	34.3	−43	26	6.7	−43° 533 ✓
54	AGC	1484	1	28.0	−42	1	8	−42° 536 ✓
55	AGC	1411	1	24.0	−43	50	8.4	−43° 449 ✓

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Dec. 15, 1911 (Cont)

B10635

No.	Class	Int.	Remarks
56	Fo	2	
57	K2	4	
58	G5	6	
59	Ko	3	
60	F8	3	
61	K	3	
62	Fo	5	
63	K2	3	
64	Bq	5	
65	Ko	4	
66	F8	2	
67	Ko	3	
68	F8	4	
69	A2	9	
70	Go	4	

Time 10:05 P.M.

56	Cdm-43° 451	1	23.3	−43	57.2	8.3		v
57	AGC 1383	1	22.6	−42	16	6.8	−42° 508	✓
58	AGC 1345	1	20.2	−42	1	8.8	−42° 493	✓
59	AGC 1332	1	19.2	−41	28	7	−41° 361	✓
60	AGC 1331	1	19.2	−41	47	7 3/4	−41° 359	✓
61	AGC 1376	1	22.3	−41	0	8	−41° 370	✓
62	AGC 1307	1	18.0	−44	7	6.8	−44° 388	✓
63	AGC 1238	1	14.3	−43	51	6.9	−43° 386	v
64	AGC 1208	1	12.5	−43	4	7.1	−43° 371	✓
65	AGC 1194	1	11.7	−42	32	6.7	−42° 446	v
66	AGC 1196	1	11.8	−43	0	8 1/4	−43° 369	✓
67	AGC 1204	1	12.2	−41	42	7 3/4	−41° 419	✓
68	AGC 1072	1	4.5	−42	56	8 1/2	−43° 336	✓
69	AGC 1052	1	3.2	−42	1	5.4	−42° 391	✓
70	AGC 1048	1	2.9	−42	17	7.0	−42° 389	✓

Idents. by J. C. M. Dec. 26 '11.
Checked by A. M. C. Jan. 11, '12

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January 4, 1912

Time 11:05

I 37446

No.	Class	Int.	Remarks
1	4?	10	E. Burned out
2	A.	8	Focus too poor.
3	A	4	Too near Edge
4	A	4	
5	A0	3	
6	A	3	
7	A0	5	
8	A2	6	
9	A0	6	
10	B5	10	
11	B	10	Burned out Magn. A0.5 or B0
12	8	4	Focus very poor.
13	A	3	
14	A	5	
15	A0	3	
16	A0	4	
17	K	2	
18	K	3	
19	A0	4	
20	K2	3	
21	A	6	E
22	A0	4	
23	A	5	
24	B9	5	
25	B5	4	
26	A	3	
27	A2	2	

1	+20°	1162	5	45.8	+20	14.8 5.0 ✓
2	+19°	1126	5	46.4	+19	436 6.3 ✓
3	+19°	1136	5	47.5	+19	20.2 8.3 ✓
4	+19°	1145	5	48.6	+19	9.8 8.2 ✓
5	+18°	1036	5	49.2	+18	57.1 8.6 ✓
6	+18°	1048	5	50.4	+18	48.9 7.6 ✓
7	+18°	1046	5	51.0	+18	50.7 8.0 ✓
8	+19°	1172	5	52.6	+19	247 7.8 ✓
9	+18°	1056	5	52.8	+18	57.1 7.6 ✓
10	+19°	1186	5	54.9	+19	41.3 5.6 ✓
11	+20°	1233	5	55.3	+20	8.4 5.1 ✓
12	+17°	1082	5	50.9	+17	48.0 8.1 ✓
13	+18°	1055	5	52.7	+18	13.0 8.9 ✓
14	+16°	964	5	52.7	+16	58.8 7.6 ✓
15	+17°	1095	5	53.4	+17	25.3 8.4 ✓
16	+18°	1061	5	53.9	+18	0.8 8.6 ✓
17	+18°	1064	5	54.2	+18	33.0 8.3 ✓
18	+17°	1101	5	54.5	+17	39.5 8.3 ✓
19	+16°	979	5	54.8	+16	54.2 8.1 ✓
20	+17°	1109	5	55.4	+17	7.2 7.3 ✓
21	+16°	989	5	56.5	+16	39.6 7.8 ✓
22	+16°	992	5	57.2	+16	33.2 8.3 ✓
23	+18°	1069	5	55.0	+18	10.3 8.2 ✓
24	+18°	1070	5	55.3	+18	15.8 8.2 ✓
25	+18°	1074	5	55.8	+18	41.9 8.5 ✓
26	+17°	1113	5	56.3	+17	47.3 8.8 ✓
27	+18°	1078	5	56.5	+18	19.5 8.8 ✓

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I 37446

No.	Class	Int.	Remark
28	Ao	3	
29	A5	5	
30	F0	5	
31	F8	4	
32	G5	3	
33	Ao	3	
34	G	5	E
35	Ao	5	E
36	F8	3	
37	Ao	2	E
38	A2	3	
39	K0	5	
40	A	2.5	
41	Ao	5	
42	A	3	
43	A	2	
44	Ao	4	
45	B8	6	
46	B8	7	
47	A3	9	
48	A	2	
49	A	3	
50	A	1	Nearly all superposed on 49
51	F	5	
52	K5	4	
53	K2	4	
54	Ao	4	

28	+18°	1091	5	58.0	+18	33.3	8.7 ✓
29	+19°	1203	5	57.8	+19	14.8	8.5 ✓
30	+18°	1095	5	58.8	+18	48.7	8.5 ✓
31	+18°	1098 1216	5	59.8 ✓	+18	55.6 0.3	8.0 9.1 ✓
32	+18°	1100	5	59.4	+18	25.0	8.3 ✓
33	+18°	1101	5	59.5	+18	40.9	8.8 ✓
34	+16°	1001 ~~999~~	5	58.8	+16	34 23.0	.5 7.2 ✓
35	+16°	1004	5	58.9	+16	44 34.6	8.2 7.5 ✓
36	+17°	1144	6	1.0	+17	51.6	8.4 ✓
37	+17°	1143	6	1.0	+17	12.0	8.5 ✓
38	+17°	1147	6	1.7	+17	43.8	8.3 ✓
39	+18°	1112	6	2.5	+18	9.4	6.8 ✓
40	+17°	1153	6	2.6	+17	17.2	8.7 ✓
41	+17°	1154	6	3.2	+17	24.3	7.3 ✓
42	+17°	1154	6	3.2	+17	47.7 24.3	8.2 7.3 ✓
43	+18°	1118	6	3.0	+18	16.4	8.8 ✓
44	+18°	1111	6	2.2	+18	44.0	8.2 ✓
45	+19°	1259	6	4.7	+19	2.5	7.8 ✓
46	+18°	1129	6	5.0	+18	43.0	6.5 ✓
47	+17°	1182	6	6.0	+17	56.7	6.5 ✓
48	+17°	1177	6	5.5	+17	34.0	8.8 ✓
49	+17°	1183	6	6.2	+17	27.7	8.7 ✓
50	+17°	1184	6	6.2	+17	28.6	9.2 ✓
51	+16°	1056	6	6.6	+16	47.5	8.0 ✓
52	+17°	1191	6	8.0	+17	13.2	6.5 ✓
53	+18°	1141	6	7.2	+18	20.5	6.8 ✓
54	+18°	1147	6	7.8	+18	12.0	8.2 ✓

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January 4, 1911 (Cont.)

I 37446

No.	Class	Sect.	Remark
55	A5	2	Partly superposed on 54
56	G5	2	
57	K0	3	
58	K0	5	
59	F5	7	
60	K0	2	
61	F5	10	
62	A	3	
63	G5	3	
64	G5	3	
65	A2	3	
66	B9	6	
67	A0	2	
68	A	2	
69	A5	2	
70	A	2	
71	A	2	
72	A	7	E
73	K0	2	
74	K0	4	
75	A0	6	
76	F5	3	
77	A	5	A E
78	A	5	Extreme Edge
79	F	4	Another star superposed ?
80	K0	5	
81	F	4	
82	F5	4	

55	+17°	1189	6	7.9	+17	58.6	8.9 ✓
56	+18°	1159	6	8.6	+18	25.5	8.5 ✓
57	+18°	1159	6	8.7	+18	44.3	8.1 ✓
58	+18°	1157	6	8.6	+18	57.7	7.5 ✓
59	+19°	1285	6	8.0	+19	3.2	7.6 ✓
60	+19°	1281	6	7.6	+19	5.8	8.2 ✓
61	+19°	1270	6	6.3	+19	12.3	6.2 ✓
62	+19°	1269	6	6.2	+19	19.8	8.8 ✓
63	+19°	1264	6	5.6	+19	30.2	8.4 ✓
64	+19°	1262	6	5.2	+19	22.5	7.8 ✓
65	+19°	1276	6	6.9	+19	33.7	8.8 ✓
66	+19°	1291	6	9.3	+19	30.7	7.6 ✓
67	+19°	1297	6	10.0	+19	37.8	8.8 ✓
68	+19°	1299	6	10.2	+19	23.5	9.0 ✓
69	+18°	1171	6	10.7	+18	55.5	8.6 ✓
70	+17°	1199	6	9.5	+17	41.1	8.7 ✓
71	+17°	1200	6	9.7	+17	10.1	8.5 ✓
72	+17°	1203	6	10.6	+17	22.5	6.5 ✓
73	+18°	1178	6	12.1	+18	6.4	7.9 ✓
74	+17°	1214	6	13.0	+17	49.9	6.5 ✓
75	+17°	1224	6	14.4	+17	38.2	7.0 ✓
76	+17°	1225	6	14.9	+17	27.3	8.4 ✓
77	+17°	1235	6	16.7	+17	4.2	7.4 ✓
78	+16°	1118	6	14.8	+16	35.0	8.0 ✓
79	+18°	1203	6	15.4	+18	31.5	8.7 ✓
80	+18°	1214	6	17.7	+18	50.5	7.4 ✓
81	+18°	1226	6	19.5	+18	54.2	8.0 ✓
82	+18°	1228	6	19.2	+18	18.6	7.8 ✓

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January 4, 1911 2 (Cont)

I 37446

No.	Spec	Int.	Remark
83	G	3	Poor focus
84	A	4	" "
85	A2	5	
86	B8?	4	E
87	A0	4	
88	G	3	E
89	K	2	
90	A	3	Poor focus
91	A2	5	
92	A2	3	
93	B9	4	
94	A0	6	
95	G	2	
96	K5	2	
97	A	3	
98	A	2	
99	B8	4	Poor focus
100	A3	2+	
101	A	2	
102	K5	2	
103	K	2	
104	B9	5	
105	B8	8	
106	B8	3	
107	A3	5	
108	F0	3	
109	A	3	Hazy

83	+17° 1260	6	20.6	+17	50.1	7.5
84	+17° 1267	6	21.4	+17	42.5	8.0
85	+17° 1268	6	21.6	+17	59.6	7.1
86	+21° 1037	5	46.3	+21	22.3	7.8
87	+21° 1039	5	46.6	+21	2.9	8.3
88	+20° 1168	5	46.6	+20	26.5	8.6
89	+20° 1171	5	47.0	+20	26.2	8.2
90	+20° 1178	5	47.7	+20	34.1	8.7
91	+20° 1187	5	48.5	+20	58.1	8.3
92	+21° 1063	5	49.8	+21	28.3	8.5
93	+21° 1066	5	50.1	+21	12.7	8.5
94	+21° 1072	5	51.0	+21	38.2	7.2
95	+20° 1197	5	50.1	+20	43.3	8.8
96	+20° 1199	5	50.3	+20	39.6	8.5
97	+19° 1160	5	50.9	+19	45.3	8.8
98	+19° 1162	5	51.1	+19	55.5	9.0
99	+19° 1165	5	51.6	+19	57.9	8.5
100	+19° 1170	5	52.3	+19	47.8	8.7
101	+19° 1182	5	54.1	+19	56.2	9.0
102	+20° 1229	5	54.5	+20	34.9	7.7
103	+21° 1086	5	53.2	+21	27.0	8.6
104	+22° 1147	5	54.0	+22	2.6	8.3
105	+22° 1140	5	52.9	+22	23.9	6.7
106	+22° 1150	5	54.3	+22	21.7	8.3
107	+21° 1099	5	55.4	+21	29.9	8.1
108	+21° 1102	5	56.0	+21	24.0	8.7

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January 11, 1911 (Cont.)

I. 37446

No.	Class	Dist.	Remark
109	A	3	Lines hazy. Maybe some division of B
110	A2	2	
111	K5	2	
112	A5	2	
113	K2	3	
114	K0	2	
115	K	2	
116	B2	5	
117	F8	2	
118	F0	6	
119	K2	6	
120	F0	3	
121	O5	5	Additional Hyd. Hγ, Hδ & Hε, prev.
122	F0	3	
123	F5	3	
124	F0	4	
125	A0	2	
126	K	2	
127	B8	9	
128	A5	2	
129	A5	3	
130	B5	3	Faintly superposed, prev 131
131	A0	2	
132	A	1	
133	A2	3	
134	A	2	

109	+21°	1107	5	56.4	+21	38.0	8.9 ✓	1106 superposed.
110	+21°	1105	5	56.3	+21	52.4	9.2 ✓	
111	+21°	1109	5	56.6	+21	23.4	8.7 ✓	
112	+20°	1260	5	58.1	+20	44.1	8.7 ✓	
113	+20°	1265	5	58.7	+20	49.9	7.9 ✓	
114	+21°	1116	5	58.0	+21	53.8	8.2 ✓	
115	+22°	1173	5	58.4	+22	7.3	8.5 ✓	
116	+21°	1120	5	58.9	+21	53.1	8.0 ✓	
117	+22°	1182	5	59.1	+22	1.3	8.5 ✓	
118	+21°	1125	5	59.4	+21	18.7	7.8 ✓	
119	+22°	1198	6	0.8	+22	12.6	6.5 ✓	
120	+21°	1137	6	1.4	+21	15.2	8.7 ✓	
121	+20°	1284	6	1.0	+20	30.8	7.7 ✓	
122	+19°	1223	6	0.0	+19	28.6	8.9 ✓	
123	+19°	1235	6	0.9	+19	14.8	8.5 ✓	
124	+19°	1237	6	1.4	+19	41.9	8.3 ✓	
125	+19°	1240	6	1.6	+19	7.5	8.8 ✓	
126	+19°	1254	6	3.5	+19	32.9	8.2 ✓	
127	+19°	1253	6	3.5	+19	49.6	6.0 ✓	
128	+20°	1312	6	4.4	+20	6.2	8.5 ✓	
129	+19°	1256	6	4.4	+19	51.0	8.3 ✓	
130	+20°	1322	6	5.5	+20	12.7	8.8 ✓	
131	+20°	1323	6	5.5	+20	22.5	8.6 ✓	
132	+20°	1326	6	6.0	+20	37.5	9.2 ✓	
133	+20°	1337	6	7.3	+20	33.0	8.8 ✓	
134	+20°	1348	6	8.8	+20	51.7	8.7 ✓	

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January 4, 1911 (Cont.)
I 37446

No.	Class	Int.	Remark
135	Q2p	4	Line 4026 nearly = K
136	F	3	
137	Go	2	
138	G5	3	
139	K5	2	
140	K5	4	
141	Q	2	
142	Q2	5	
143	F8	2	
144	Q0	4	
145	Q0	3	
146	Q3	2	
147	F0	4	
148	K0	5	No separation obs. Both sp. probably alike.
149	Q0	7	
150	B8?	10+	Burned out.
151	Q0	6	E
152	K	3	E
153	Mb	28	
154	K0	4	
155	Ma	2	
156	Q0	5	
157	Q0	6	
158	Q0	2	
159	Q2	6	
160	B8	2	Poor focus

135	+20° 1352	6	9.1	+20	30.0	8.5 ✓
136	+20° 1368	6	10.6	+20	31.0	8.5 ✓
137	+20° 1371	6	10.8	+20	3.6	8.6 ✓
138	+19° 1305	6	11.6	+19	55.8	8.2 ✓
139	+19° 1308	6	12.4	+19	58.8	8.4 ✓
140	+19° 1313	6	13.0	+19	57.3	7.5 ✓
141	+19° 1314	6	13.1	+19	39.9	8.7 ✓
142	+19° 1318	6	13.6	+19	45.6	8.0 ✓
143	+19° 1320	6	13.8	+19	26.1	8.7 ✓
144	+19° 1325	6	14.7	+19	44.3	8.7 ✓
145	+20° 1412	6	17.3	+20	10.5	9.0 ✓
146	+20° 1418	6	17.8	+20	8.0	9.0 ✓
147	+20° 1420	6	18.2	+20	31.2	8.3 ✓
148	+20° 1426	6	19.1	+20	52.2	8.0 7.0 ✓
149	+20° 1428	6	19.3	+20	35.0	6.8 ✓
150	+20° 1441	6	20.4	+20	18.2	4.3 ✓
151	+20° 1454	6	22.1	+20	30.9	8.0 ✓
152	+22° 1096	5	46.1	+22	29.0	7.6 ✓
153	+22° 1109	5	48.3	+22	48.6	8.2 ✓
154	+23° 1130	5	49.6	+23	7.8	7.5 ✓
155	+23° 1132	5	49.8	+23	38.4	7.8 ✓
156	+22° 1123	5	50.4	+22	47.3	8.5 ✓
157	+22° 1130	5	50.9	+22	27.4	7.5 ✓
158	+22° 1131	5	51.0	+22	38.4	8.8 ✓
159	+22° 1135	5	51.7	+22	53.4	7.0 ✓
160	+22° 1139	5	52.4	+22	32.1	8.9 ✓

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January 4, 1911 (cont.)

I 37446

No.	Class	Dist.	Remarks
161		1	Nip. Omit
June 11.55 162	B	3	Cannot satisfactorily divide. Omit. Seen between mid 10 mid.
June 2:30 163	A	5	Almost completely superposed on 164
164	A	1	" " " " 163
165	A2	2	
166	A5	3	
167	A0	3	
168	K	10	Burned out
169	B9	5	
170	K5	3	
171	K0	6	
172	B9	4	
173	A	2	
174	K5	5	
175	K	3	
176	K	2	
177	A	2	
178	B1	9	
179	B9	6	
180	A	3	
181	A0	2	
182	B2	5	Difficult. H & K unknown. Hal lines very indistinct.
183	B5	8	
184	M2	4	
185	K5	8	
186	K5	6	
187	A	2	
188	A5	3	

161	omit					
162	omit					
163	+23° 1150	5	52.6	+23	41.4	7.6 ✓
164	+23° 1152	5	52.7	+23	43.5	8.4 ✓
165	+23° 1156	5	53.3	+23	54.9	9.0 ✓
166	+23° 1154	5	53.0	+23	7.5	8.9 ✓
167	+23° 1161	5	54.0	+23	19.7	8.5 ✓
168	+23° 1170	5	56.3	+23	15.6	5.1 ✓
169	+23° 1187	5	57.2	+23	31.1	8.5 ✓
170	+23° 1188	5	57.6	+23	11.5	8.4 ✓
171	+23° 1192	5	58.0	+23	38.5	7.2 ✓
172	+23° 1199	5	58.3	+23	3.9	8.6 ✓
173	+22° 1175	5	58.5	+22	46.2	9.0 ✓
174	+22° 1180	5	59.0	+22	43.4	7.5 ✓
175	+22° 1187	5	59.8	+22	37.9	9.0 ✓
176	+23° 1219	6	0.0	+23	0.1	8.7 ✓
177	+23° 1221	6	0.2	+23	13.0	9.3 ✓
178	+23° 1226	6	1.0	+23	7.5	6.5 ✓
179	+23° 1232	6	1.7	+23	1.4	7.4 ✓
180	+22° 1213	6	2.7	+22	32.2	8.8 ✓
181	+22° 1215	6	2.9	+22	34.3	8.8 ✓
182	+21° 1143	6	2.6	+21	35.5	7.8 ✓
183	+20° 1302	6	2.7	+20	55.8	7.0 ✓
184	+21° 1146	6	3.1	+21	54.0	7.3 ✓
185	+23° 1243	6	3.1	+23	14.1	7.3 ✓
186	+22° 1220	6	3.5	+22	56.1	6.7 ✓
187	+22° 1221	6	3.7	+22	39.7	9.2 ✓
188	+23° 1236	6	4.1	+22	29.5	8.7 ✓

Could make out

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January 5, 1911 (Cont.)

I 3746

No.	Class	Dist.	Remark
189	Ma	10+	Burned out
190	Ko	5	
191	Ao	2	
192	G	2	
193	F?	2	Omit, unless confirmed.
194	F	4	
195	Fo	4	
196	G5	5	
197	Ko	3	
198	G	3	
199	Ko	3	
200	Ao	2	
201	B8	6	
Time 2:50	202	Ao	5
Time 9:55	203	Ao	2
	204	A	2
	205	A	3
	206	Ao	2
	207	Ma	10+
	208	B8	4
	209	A3	5
	210	Bq	3
	211	A	2 High lines very faint.
	212	G5	6
	213	Ao	2
	214	G	2
	215	G5	3

189	+22°	1241	6	6.1	+22	32.8	var √
190	+21°	1163	6	5.8	+21	49.7	7.8 √
191	+21°	1159	6	5.3	+21	27.5	9.2 √
192	+21°	1168	6	6.8	+21	14.8	9.1 √
193	+21°	1172	6	7.2	+21	8.6	9.0 √
194	+21°	1178	6	8.3	+21	40.3	8.8 √
195	+22°	1253	6	8.1	+22	13.1	8.3 √
196	+22°	1257	6	8.6	+22	11.8	8.0 √
197	+21°	1190	6	10.0	+21	14.0	8.1 √
198	+21°	1196	6	11.1	+21	31.8	8.7 √
199	+21°	1199	6	11.9	+21	8.8	8.0 √
200	+21°	1202	6	12.5	+21	11.6	9.1 √
201	+21°	1203	6	12.6	+21	11.6	7.5 √
202	+21°	1204	6	12.7	+21	16.0	7.7 √
203	+20°	1377	6	11.7	+20	35.6	8.8 √
204	+21°	1208	6	13.5	+21	4.1	9.0 √
205	+20°	1390	6	13.7	+20	57.2	9.0 √
206	+22°	1300	6	13.7	+22	2.6	8.8 √
207	+22°	1304	6	14.2	+22	34.8	3.0 √
208	+22°	1306	6	14.6	+22	3.3	8.4 √
209	+22°	1323	6	16.8	+22	32.0	7.7 √
210	+21°	1230	6	16.7	+21	59.9	8.5 √
211	+21°	1229	6	16.9	+21	36.5 / 39.8	9.0 / 8.7 √
212	+21°	1232	6	17.0	+21	43.6	7.2 √
213	+21°	1233	6	17.2	+21	53.3	8.9 √
214	+21°	1238	6	17.9	+21	41.5	8.7 √
215	+21°	1241	6	18.6	+21	22.7	7.7 √

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No.	Class	Int.	Remark
216	A3	4	
217	Ao	6	
218	A2	2	
219	K5	2	
220	K	4	E
221	F	5	E
222	A	6	E
223	Ao	7	E
224	Fo	3	
225	A	2	
226	A2	2	
227	A5	2	
228	A3	8	
228a	K5	3	Nearly all superposed on No. 228
229	Fo	8	
230	K5	2	
231	F2	3	
232	A2	4	
233	Ao	2	
234	K5	3	
235	A	2	
236	A	2	E
237	K	2	E
238	Ao	2	
239	B9	2	
240	Ao	3	E
241	B2	7	Difficult. Lies close little Centaurus. E
242	B8	5	Difficult. E

216	+21°	1242	6	18.7	+21 3.5	8.1 ✓
217	+21°	1247	6	19.5	+21 14.3	8.1 ✓
218	+21°	1251	6	19.9	+21 40.4	9.0 ✓
219	+21°	1264	6	21.5	+21 46.5	8.7 ✓
220	+21°	1268	6	22.3	+21 53.8	8.1 ✓
221	+21°	1270	6	22.4	+21 48.7	8.6 ✓
222	+22°	1364	6	23.2	+22 16.8	7.2 ✓
223	+22°	1352	6	21.6	+22 38.1	7.5 ✓
224	+23°	1334	6	14.7	+23 9.2	8.5 ✓
225	+23°	1338	6	15.8	+23 29.7	8.7 ✓
226	+23°	1340	6	15.9	+23 13.6	8.6 ✓
227	+23°	1345	6	16.6	+23 8.2	8.5 ✓
228	+23°	1347	6	16.7	+23 23.8	6.8 ✓
228a	+23°	1346	6	16.7	+23 31.2	7.5 ✓
229	+23°	1344	6	16.5	+23 47.4	7.2 ✓
230	+22°	1326	6	17.5	+22 48.1	8.5 ✓
231	+22°	1327	6	17.6	+22 48.8	8.7 ✓
232	+23°	1356	6	18.2	+23 48.9	8.5 ✓
233	+23°	1360	6	19.0	+23 32.2	9.4 ✓
234	+23°	1362	6	19.2	+23 45.8	8.2 ✓
235	+23°	1369	6	20.0	+23 30.1	9.0 ✓
236	+22°	1343	6	20.5	+22 56.9	9.0 ✓
237	+22°	1342	6	20.1	+22 36.6	8.8 ✓
238	+22°	1330	6	18.4	+22 7.6	8.8 ✓
239	+22°	1335	6	18.9	+22 11.9	9.0 ✓
240	+23°	1380	6	21.8	+23 37.7	8.7 ✓
241	+24°	1033	5	48.1	+24 13.2	6.0 ✓
242	+24°	1039	5	48.7	+24 35.3	7.5 ✓

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January 5, 191[illegible] (Cont.)

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No.	Class	Int.	Remark
243	B8	3	E
244	95	3	
245	B	10+	Tendency to subdivide
246	Ko	4	
247	A	6	E.
248	Ko	5	
249	A	4	
250	F8	3	
251	B9	4	Diffuse
252	A0	2	
253	A	3	
254	B8	4	
255	A	4	
256	G5	2	
257	B8	4	
258	A2	5	
259	B9	3	
260	Ko	6	
261	G5	2	
262	A0	2	
263	A3	2	
264	K	2	
265	F0	6	
266	F8	2	
267	G	1N	
268	A	2	
269	G5	7	

243	+24° 1043	5	49.1	+24	35.5 7.6✓
244	+24° 1045	5	49.7	+24	47.0 7.5✓
245	+25° 1052	5	49.0	+25	55.8 8.2✓
246	+25° 1058	5	49.9	+25	45.3 7.3✓
247	+26° 1046	5	54.5	+26	31.5 7.2✓
248	+25° 1100	5	56.3	+25	27.0 6.9✓
249	+25° 1108	5	56.1	+25	48.2 8.0✓
250	+25° 1105	5	55.8	+25	10.9 8.5✓
267	+24° 1086	5	56.3	+24	20.4 8.7✓
252	+24° 1092	5	57.8	+24	45.5 8.6✓
253	+24° 1109	5	59.2	+24	54.9 8.9✓
254	+23° 1208	5	59.2	+23	46.6 8.2✓
255	+23° 1209	5	59.3	+23	52.5 8.5✓
256	+23° 1216	5	59.6	+23	23.2 8.5✓
257	+24° 1123	6	0.1	+24	22.4 8.5✓
258	+24° 1135	6	0.9	+24	13.5 8.4✓
259	+24° 1138	6	2.2	+24	54.5 8.3✓
260	+24° 1151	6	2.6	+24	26.7 6.7✓
261	+25° 1153	6	2.6	+25	2.2 8.1✓
262	+24° 1161	6	3.9	+24	27.0 8.8✓
263	+24.3° 1251	6	4.6	+24.3	40.0 9.2✓
264	+24.3° 1254	6	4.8	+24.3	46.5 8.7✓
265	+24° 1168	6	5.3	+24	1.5 8.0✓
266	+24.3° 1262	6	5.9	+24.3	24.4 9.0✓
267	+23° 1279	6	7.8	+23	14.0 8.3 49.8 9.0✓
268	+23° 1270	6	7.2	+23	49.8 9.0✓
269	+24° 1182	6	7.5	+24	0.4 6.5✓

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January 5, 191X (Cont.)

T 37446

No.	Class	Int.	Remark
270	B2	7	
271	G5	5	
272	B1	5	
273	B9	4	
274	B1	3	Diffuse. Lines very indistinct
275	A5	2	
276	A0	3	
277	A	2	
278	B9	5	
279	B0	3	
280	K0	3	
281	F5	3	
282	B9	2	
283	A2	3	
284	A0	2	
285	F8	4	
286	A	2	
287	K0	5	
288	K0	3	E
289	A	3	E
290	K2	3	E
291	A	6	E
292	A0	4	
293	F	3	
294	A	3	
295	K0	3	
296	A	3	

270	+23°	1275	6	8.1	+23 47.8	6.8 V
271	+23°	1293	6	10.1	+23 39.3	7.0 V
272	+23°	1300	6	10.5	+23 31.2	7.3 V
273	+23°	1301	6	10.6	+23 19.3	7.5 V
274	+23°	1297	6	10.2	+23 3.3	8.1 V
275	+23°	1298	6	10.4	+23 1.4	8.5 V
276	+22°	1278	6	10.8	+22 53.0	8.5 V
277	+23°	1309	6	11.2	+23 19.6	9.1 V
278	+23°	1311	6	11.3	+23 27.8	8.2 V
279	+24°	1212	6	12.1	+24 2.8	8.5 V
280	+24°	1322	6	13.0	+23 49.8	7.7 V
281	+22°	1294	6	13.0	+22 58.2	8.1 V
282	+22°	1296	6	13.3	+22 37.4	8.8 V
283	+24°	1241	6	14.6	+24 6.4	9.1 V
284	+23°	1336	6	14.9	+23 56.0	9.0 V
285	+24°	1255	6	16.1	+24 22.4	8.0 V
286	+24°	1251	6	15.6	+24 50.0	8.8 V
287	+25°	1255	6 5	15.8	+25 6.9	6.5 V
288	+26°	1074	5	57.4	+26 32.0	7.6 V
289	+27°	979	5	57.4	+27 3.8	8.5 V
290	+26°	1079	5	58.0	+26 40.5	7.5 V
291	+26°	1082	5	58.3	+26 41.8	7.0 V
292	+26°	1088	5	58.9	+26 24.8	7.8 V
293	+25°	1124	5	59.0	+25 56.3	8.0 V
294	+25°	1125	5	59.0	+25 27.8	8.0 V
295	+25°	1128	5	59.5	+25 58.7	8.2 V
296	+25°	1130	5	59.7	+25 40.3	8.6 V

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January 5, 1912 2d (Cont.)

I 3744 6

No.	Class	Int.	Remark
297	K5?	3	Maybe Ma. E
298	A0	4	
299	A0	4	
300	K5	3	
301	K5	2	
302	A	5	E
303	K2	2	
304	K0	4	
Time 10:25	305 A	7	E

A few more stars can be classified in this field.

cent. in 133, 12

297	+25°	1131	5	59.8	+25	39.7	7.6 ✓
298	+25°	1133	6	0.1	+25	31.4	8.1 ✓
299	+25°	1163	6	4.4	+25	23.0	8.4 ✓
300	+25°	1180	6	6.5	+25	22.2	7.6 ✓
301	+24°	1174	6	6.2	+24	35.8	8.5 ✓
302	+25°	1207	6	9.8	+25	24.0	8.0 ✓
303	+25°	1215	6	10.9	+25	4.2	7.8 ✓
304	+24°	1206	6	11.2	+24	36.7	8.0 ✓
305	+25°	1225	6	11.7	+25	14.8	7.2 ✓

Identt. by J. C. M. Jan. 22 '12

Checked by A.M.C. April 17, 1912

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January 7, 19N

June 11.45 I 37 45

No.	Area	Dist	Remark
1	Q	6	E
2	K	2	E
3	Q3	3	
4	B5	8	
5	K2	3	
6	K0	6	
7	K	3	Poor focus
8	B9	7	E
9	Q0	5	
10	Y5	6	
11	K	2	
12	Q8	5	
13	Q	5	E Poor focus
14	Y5	2	
15	Q	4	E
16	Z5	3	E
17	Q	4	E
18	Z	2	
19	Z0	4	
20	K0	3	
21	K0	3	
22	Q5	4	
23	Z0	2	
24	K0	7	
25	K	2	
26	Y5	3	
27	Q0	4	

1	+20° 527	3	6.6	+20	30.5	4.5 ✓
2	+22° 465	3	8.5	+22	35.0	7.3 ✓
3	+22° 469	3	9.4	+22	17.8	7.5 ✓
4	+20° 543	3	12.8	+20	37.3	5.0 ✓
5	+19° 511	3	12.5	+19	58.7	7.2 ✓
6	+20° 551	3	14.4	+20	13.4	5.0 ✓
7	+20° 554	3	15.0	+20	27.0	7.0 ✓
8	+20° 556	3	16.1	+20	17.4	5.8 ✓
9	+21° 447	3	16.1	+21	31.1	6.8 ✓
10	+22° 495	3	20.0	+22	19.3	6.0 ✓
11	+20° 572	3	19.5	+20	25.3	7.7 ✓
12	+19° 537	3	19.7	+20	57.2	7.0 ✓
13	+20° 573	3	20.4	+20	6.6	7.2 ✓
14	+20° 578	3	22.9	+20	16.6	8.2 ✓
15	+19° 554	3	26.1	+19	17.9	8.2 ✓
16	+19° 562	3	28.0	+19	34.8	7.0 ✓
17	+24° 457	3	7.2	+24	0.2	8.4 ✓
18	+23° 425	3	7.6	+23	49.6	8.6 ✓
19	+24° 464	3	9.5	+24	20.8	7.5 ✓
20	+23° 436	3	9.8	+23	33.5	7.0 ✓
21	+24° 471	3	11.9	+24	0.8	7.9 ✓
22	+23° 442	3	11.8	+23	9.9	7.0 ✓
23	+22° 475	3	12.3	+22	39.3	8.0 ✓
24	+24° 481	3	15.8	+24	13.5	5.8 ✓
25	+24° 490	3	18.4	+24	17.7	8.7 ✓
26	+23° 456	3	19.3	+23	40.9	8.0 ✓
27	+23° 459	3	21.6	+23	41.3	8.0 ✓

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January 7, 1914 (Cont.)
I 37415

No.	Class	Dist.	Remark
28	F5	4	
29	K0	3	
30	A3	6	
31	K0	3	
32	B9	3	
33	A2	8	
34	?	2	
35	K	2	
36	G5	3	Another plate superposed. Towards South —
37	A0p	7	Line 4128-31 strong. Probably lies on Ends end
38	G5	2	
39	F0	3	
40	A0	4	
41	A5	5	E
42	A2	3	
43	F5	4	
44	K0	7	
45	G5	8	
46	A0	3	
47	G5	2	
48	G	1	
49	K0	8	
50	A5	2	
51	A2	2	
52	A2	5	
53	F5	21	
54	K0	3	

28	+23° 462	3	23.2	+23	8.4	8.1 ✓	
29	+23° 463	3	23.5	+23	9.3	7.8 ✓	
30	+22° 504	3	24.9 26.0	+22	32.5 54.2	8.2 8.5 ✓	
31	+23° 469	3	25.3	+23	20.5	7.8 ✓	
32	+23° 470	3	25.3	+23	45.0	7.8 ✓	
33	+23° 473	3	26.9	+23	59.2	6.2 ✓	
34	+23° 477	3	26.4	+23	2.1	8.5 ✓	
35	+22° 510	3	26.0	+22	16.6	8.5 ✓	
36	+23° 482	3	27.9	+23	26.4	8.5 ✓	+23°481 superposed.
37	+22° 518	3	28.4	+22	45.1	7.0 ✓	
38	+23° 483	3	29.2	+23	48.0	8.0 ✓	
39	+24° 523	3	30.0	+24	7.3	8.3 ✓	
40	+25° 515	3	6.6	+25	56.8	8.0 ✓	
41	+26° 530	3	6.9	+26	22.0	8.1 ✓	
42	+25 36° 517	3	7.9	+25	40.5	8.3 ✓	
43	+25° 521	3	8.4	+25	2.9	8.1 ✓	
44	+25° 536	3	11.8	+25	8.2	6.5 ✓	
45	+26° 540	3	11.3	+26	32.3	6.0 ✓	
46	+27° 492	3	10.9	+27	0.9	7.7 ✓	
47	+28 6° 542	3	12.0	+26	23.8	7.9 ✓	
48	+26° 543	3	12.8	+26	46.1	8.8 ✓	
49	+27° 500	3	13.5	+27	5.5	5.7 ✓	
50	+27° 501	3	14.3	+27	11.5	8.5 ✓	
51	+26° 550	3	14.8	+26	52.9	8.3 ✓	
52	+26° 548	3	14.4	+26	21.7	7.0 ✓	
53	+25° 545	3	17.2	+25	20.3	8.6 ✓	
54	+25° 551	3	19.7	+25	45.8	8.0 ✓	

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January 7, 1917 (Cont.)

I 37415

No.	Class	Dect.	Remark
55	F0	3	
56	A2n	2	
57	A3	4	
58	A2n	3	
59	F5	3	
60	G0	5	
61	F8	2	
62	A3	5	
63	K0	4	
64	A	6	Poor focus
65	K0	9	
66	A2n	4	
67	A0	6	
68	G5	5	
69	F8	2	
70	B9	3	Partly superposed on 70a
70a	B9	3	" " " 70
71	A0	8	
72	K0	2	
73	B3	6	
74	A	5	E
75	A0	4	
76	K	2	
77	A	4	E
78	A	2	
79	F8	3	
80	A5	6	

June 12.00

55	+25° 554	3	20.3	+25	48.5	7.9
56	+25° 565	3	22.9	+25	13.4	9.0
57	+24° 503	3	22.6	+24	45.9	7.8
58	+26° 572	3	26.3	+26	6.7	8.2
59	+26° 574	3	26.6	+26	21.5	8.3
60	+25° 580	3	28.4	+25	31.2	8.0
61	+27° 525	3	26.6	+27	3.6	8.7
62	+27° 526	3	26.7	+27	22.5	8.5
63	+27° 529	3	27.3	+27	6.8	8.0
64	+28° 511	3	8.4	+28	13.6	8.2
65	+28° 516	3	11.6	+28	31.4	5.2
66	+29° 552	3	14.1	+29	16.8	7.7
67	+28° 526	3	16.1	+28	7.8	7.2
68	+28° 532	3	17.8	+28	12.7	7.0
69	+28° 535	3	19.8	+28	33.4	8.5
70	+27° 514	3	22.5	+27	12.9	8.0
70a	+27 513	3	22.2	+27	12.9	8.0
71	+27° 515	3	22.6	+27	3.8	5.7
72	+26° 566	3	22.3	+26	36.6	8.2
73	+29° 566	3	19.9	+29	52.2	6.8
74	+29° 568	3	21.4	+29	32.2	7.5
75	+29° 571	3	23.3	+29	30.1	7.8
76	+29° 572	3	23.3	+29	1.9	8.3
77	+29° 579	3	27.3	+29	30.8	7.4
78	+28° 544	3	26.1	+28	49.5	9.0
79	+28° 547	3	27.5	+28	27.6	8.1
80	+28° 548	3	27.8	+28	44.7	6.8

Ident. by J. C. M. Jan. 17 '12

Checked by A. M. C. April 8, 1912

Earle Wade

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January 16, 1912

June 10.48 B 12037 Short disp.

No.	Class	Dist.	Remark
1	G	107	Burned out
2	F5	9	"
3	F5	5	
4	K0	3	
5	A3	4	Difficult
6	A2	7	
7	F2	6	
8	G5	3	
9	A5	4	
10	A2	3	
11	G5	3	
12	A5	8	Confirmed on B 24229
13	K0	3	
14	K0	6	
15	F8	6	
16	F0	7	
17	K2	3	
18	K0	4	
19	K0	4	
20	K2	4	
21	K2	2	
22	G	3	
23	K0	4	
24	F0	5	
25	A	10	Burned out
26	G	2	Difficult

1	C.P.N.	-52° 241	1	51.1	-52	13.7	8.8	
2		-52° 242	1	52.2	-52	23.1	66 ✓	
3		-52° 246	1	52.8	-52	48.5	7.6 ✓	
4		-52° 249	1	54.4	-52	51.3	7.8 ✓	
5		-53° 387	1	58.0	-53	8.2	8.1 ✓	
6		-53° 389	1	58.5	-53	38.3	7.1 ✓	
7		-52° 263	2	1.0	-52	35.3	7.4 ✓	
8		-53° 394	2	2.8	-53	47.6	8.2 ✓	
9		-54° 422	2	8.9	-54	5.1	8.1 ✓	
10		-54° 425	2	5.1	-54	2.9	8.3 ✓	
11		-53° 400	2	5.2	-53	52.1	8.1 ✓	
12		-52° 429	2	7.5	-54	38.2	7.7 ✓	
13		-54° 432	2	8.4	-54	19.8	8.3 ✓	
14		-52° 279	2	5.2	-52	19.3	7.3 ✓	
15		-52° 283	2	11.3	-52	47.3	7.1 ✓	
16		-53° 417	2	11.7	-53	28.1	7.2 ✓	
17		-53° 369	1	48.3	-53	18.5	8.0 ✓	
18		-53° 370	1	48.9	-53	51.9	8.3 ✓	
19		-53° 351	1	45.5	-53	5.1	8.3 ✓	
20		-54° 385	1	46.4	-54	54.0	8.0 ✓	
21		-54° 373	1	48.2	-54	37.6	8.6 ✓	
22		-55° 354	1	46.5	-55	49.8	8.5 ✓	
23		-55° 365	1	49.3	-55	22.2	8.3 ✓	
24		-56° 348	1	47.6	-56	22.7	7.8 ✓	
25		-55° 367	1	51.3	-55	41.1	7.0 ✓	
26		-55° 372	1	52.7	-55	45.1	8.6 ✓	

Comb made out

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January 16, 1912 (cont)

B12034 Chart dup

No.	Class	Int.	Remark
27	K	2	
28	G5	7	
29	A	5	
30	F8	2	
31	K0	2	
32	A5	3	
33	A	5	
34	F?	10	Burnham.
35	A	5	Look up.
36	G5	5	
37	G5	3	
38	A3	3	Confirmed on B 24 229
39	F0	5	
40	G0	4	
41	F5	3	
42	K2	7	
43	K2	2	
44	K0	3	
45	A5	3	Pair faint
46	K2	5	
47	F	4	
48	F2	8	
49	A	3	
50	K0	5	
51	K0	2	
52	G	3	
53	F8	3	

	CPD No.						
27		−56° 360	1	54.0	−56	2.4	8.6 ✓
28	27	−54° 378	1	55.8	−55	37.1	7.1 ✓
29	29	−55° 380	1	56.8	−55	44.9	7.8 ✓
30	29	−58° 377	1	55.7	−58	1.8	8.3 ✓
31	30	−54° 391	1	52.0	−54	31.8	8.6 ✓
32	31	−54° 409	1	56.7	−54	36.9	8.3 ✓
33	32	−54° 413	1	59.9	−54	57.3	7.6 ✓
34	33	−55° 387	2	0.2	−55	28.7	6.9 ✓
35	34	−56° 371	1	59.6	−56	15.7	7.8 ✓
36	35	−55° 388	2	2.2	−55	40.8	7.4 ✓
37	36	−56° 381	2	4.0	−56	7.1	8.0
		−55° 407	2	11.7	−55	51.6	7.6 ✓
38	37	−56° 390	2	8.0	−56	3.6	8.1 ✓
39	38	−55° 407	2	11.7	−55	51.6	7.6 ✓
40	39	−56° 409	2	13.6	−56	49.5	7.9 ✓
41	40	−56° 412	2	15.7	−56	51.4	8.0 ✓
42	41	−56° 413	2	15.8	−56	31.2	7.2 ✓
43	42	−56° 415	2	16.2	−56	40.2	8.0 ✓
44	43	−58° 352	1	48.4	−58	39.3	8.3 ✓
45	44	−57° 367	1	47.3	−57	59.0	8.6 ✓
46	45	−58° 186	1	49.8	−58	31.9	8.1 ✓
47	46	−58° 172	1	51.0	−58	57.9	8.0 ✓
48	47	−59° 168	1	52.4	−59	5.0	7.5 ✓
49	48	−59° 149	1	46.4	−59	11.2	8.5 ✓
50	49	−59° 158	1	46.0	−59	33.6	7.7 ✓
51	50	−59° 154	1	47.7	−59	31.1	8.4 ✓
52	51	−60° 156	1	48.9	−60	1.9	8.6 ✓
53	52	−60° 140	1	40.8	−60	20.6	8.5 ✓

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January 16, 1912 (Cont.)
B 12034 Chart dup.

No.	Class	Int.	Remark
54	K	2	
55	Ky	6	E
56	Q	5	E
57	K	1	E
58	F	5	E
59	Fo	5	
60	Ko	8	
61	Q	8	Burnsdont
62	F5	5	
63	F0	10	
64	F0	10+	
65	F0	6	Maybe a trail of a very bright star. This is the trail of
66	F5	6	
67	F5	6	
68	K	2	
69	Q	4	
70	F	3	
71	Ko	4	
72	F5	3	
73	~~B8~~ Q2	7	
74	B8	7	
75	Q	3	
76	F	2	
77	Q	4	
78	Q	3	
79	Ko	3	
80	K5	4	

54	-61°	141	1	40.9	-61	1.0	8.6 ✓	✓
55	-61°	124	1	33.5	-61	8.9	7.6 ✓	
56	-61°	120	1	31.3	-61	36.2	7.3 ✓	
57	-61	117	1	29.7	-61	52.6	8.4 ✓	
58	-61°	115	1	27.2	-61	53.6	7.1 ✓	
59	-61°	125	1	36.1	-61	37.8	7.8 ✓	
60	-61°	130	1	39.5	-61	23.1	8.6 ✓	
61	-61°	139	1	46.3	-61	38.8	6.3 ✓	
62	-62°	~~140~~ 138	1	42.8	-62	~~31.0~~ 31.9	~~10.6~~ 7.8 ✓	✓
63	-60°	162	1	51.3	-60	55.4	6.7 ✓	
64	-62°	157	1	51.8	-62	28.4	6.1 ✓	
65	-62°	162	1	54.8	-62	10.6	3.5 ✓	
~~66~~	~~-61~~	~~181~~	~~2~~	~~3.4~~	~~-61~~	~~34.9~~	~~17.6~~	
~~66~~	~~-61~~	~~139~~	~~1~~	~~40.3~~	~~-61~~	~~38.8~~	~~6.3~~ ✓	
67	-60°	182	2	3.5	-60	16.3	7.4 ✓	
68	-60°	179	2	1.2 ✓	-60	6.3	8.6 ✓	
69	-59°	186	2	1.4	-59	46.8	8.0 ✓	-59° 28' 1.4 -59 45.6 7.7 superposed
70	-59°	180	1	59.7	-59	57.8	8.1 ✓	
71	-59°	196	2	7.3	-59	44.4	8.1 ✓	
72	-59°	199	2	9.0	-59	52.5	8.2 ✓	
73	-60°	197	2	18.6	-60	17.7	7.5 ✓	
74	-58°	191	2	0.4	-58	56.6	7.2 ✓	
75	-58°	192	2	1.4	-58	44.4	8.2 ✓	
76	-58°	182	1	57.7	-58	17.4	8.2 ✓	
77	-58	184	1	58.5	-58	11.9	7.9 ✓	
78	-57°	397	2	0.8	-57	58.4	8.2 ✓	
79	-57°	408	2	3.6	-57	47.2	8.2 ✓	
~~80~~	~~-57°~~	~~383~~	~~1~~	~~54.5~~	~~-57~~	~~28.8~~	~~8.4~~	
80	-57	385	1	54.6	-57	29.2	8.6	superposed ✓

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January 16, 1912 (Cont.)

B 12034 Int. def.

	No.	Class	Dist.	Remark
June 11.10	81	95	2	

81 CPD. −56° 365 1 58.0 −56 50.9 8.3
Identified by L.D.M.
Checked by A.M.C. Feb. 12, 1912.

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January 16, 1912

June 11.12 B 24229 Photodisp

No.	Class	Dist	Remark
1	F5	5	
2	G5	3	
3	G0	3	
4	F5	6	
5	F2	5	
6	A3	3	
7	K	1	2
8	A3	10+	Burned out.
9	K	2	
10	G5	5	Poor focus
11	F	8	
12	K	3	
13	K	3	
14	K	2	
15	K	2	
16	A	10	Burned out
17	A	3	Poor focus
18	A	4	
19	K2	3	
20	F0	3	
21	G0	3	
22	K0	4	
23	A2	5	
24	K	1	
25	K0	4	
26	G0	2	
27	G0	5	

1	−53°	42.3	2	16.6	−53	32.1	7.7	✓
2	−53°	43.1	2	19.8	−53	22.7	8.0	✓
3	−53°	43.4	2	21.6	−53	31.6	8.0	✓
4	−52°	30.2	2	22.3	−52	15.9	7.8	✓
5	−51°	59.8 7	2	26.1	−51	55.8	7.6	✓
6	−52°	31.0	2	26.7	−52	33.3	7.9	✓
7	−52°	31.7	2	29.0	−52	29.6	8.4	✓
8	−53°	45.7	2	33.3	−53	5.3	6.3	✓
9	−53°	45.2	2	31.9	−53	35.4	8.7	✓
10	−53°	46.2	2	34.7	−53	29.6	7.5	✓
11	−53°	46.5	2	35.1	−53	28.5	7.0	✓
12	−53°	46.4	2	35.0	−53	41.2	8.6	✓
13	−53°	46.8	2	37.5	−53	51.2	8.4	✓
14	−53°	47.0	2	38.8	−53	30.1	8.8	✓
15	−53°	47.2	2	39.6	−53	23.1	8.5	✓
16	−53°	47.5	2	40.2	−53	6.0	6.8	✓
17	−53°	~~44.7~~ 47	2	40.5	−53	18.9	8.2	✓
18	−54°	48.5	2	47.5	−54	57.5	7.6	✓
19	−54°	44.0	2	14.7	−54	30.8	8.2	✓
20	−54°	45.0	2	20.1	−54	37.5	8.2	✓
21	−54°	45.1	2	20.9	−54	47.9	8.2	✓
22	−54°	~~45.0~~ 44.9	2	~~20.1~~ 19.9	−54	~~37.5~~ 55.7	8.2	✓
23	−55°	42.4	2	19.5	−55	6.6	8.0	✓
24	−55°	42.3	2	19.0	−55	5.9	8.6	✓
25	−55°	41.7	2	15.5	−55	35.5	8.1	✓
26	−55°	41.5	2	14.5	−55	26.1	8.6	✓
27	−56°	40.9	2	13.6	−56	49.5	7.9	✓

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January 16, 1912 (Cont)

B 21 4229 Short disp.

No.	Class	Int.	Remarks
28	K2i	4	
29	K2	3	
30	F5	3	
31	G5	6	
32	G	1	
33	F8	3	
34	A0	7	
35	F5	6	
36	F0	3	
37	K0	2	
38	F5	2	
39	A2	3	
40	F0	4	
41	G	2	
42	G5	1	
43	F5	4	
44	F5	10+	Burned out.
45	F5	2	
46	K0	5	
47	K0	3	
48	A0	3	
49	G	3	
50	F2	3	
51	K5	3	
52	G	2	
53	F8	4	
54	G	3	

28	−56°	413	2	15.8	−56	31.2	7.2	✓	
29	−56°	415	2	16.2	−56	40.2	8.0	✓	
30	−56°	412	2	15.7	−56	41.4	8.0	✓	
31	−57°	427	2	16.4	−57	21.3	7.2	✓	
32	−57°	434	2	17.2	−57	6.9	8.6	✓	
33	−57°	435	2	17.4	−57	7.1	8.4	✓	
34	−57°	434	2	19.5	−57	22.9	7.6	✓	
35	−56°	426 ~~471~~	X 2	19.6 ~~17.6~~	−56	11.1 ~~15.7~~	7.8	✓	
36	−56°	436	2	24.8	−56	59.8	8.2	✓	
37	−57°	454	2	27.8	−57	9.2	8.8	✓	
38	−56°	443	2	29.4	−56	52.1	8.9	✓	
39	−57°	455	2	29.5	−57	34.6	8.7	✓	
40	−56°	448	2	32.4	−56	3.6	8.4	✓	
41	−55°	439	2	29.8	−55	28.9	8.9	✓	
42	−56°	449	2	33.5	−56	1.8	8.9	✓	
43	−55°	445	2	35.1	−55	22.5	7.5	✓	
44	−55°	446	2	36.8	−55	5.2	6.1	✓	
45	−56°	452	2	37.6	−56	30.5	8.4	✓	
46	−56°	453	2	37.9	−56	49.8	8.0	✓	
47	−57°	464	2	38.9	−57	10.2	8.4	✓	
48	−56°	458	2	42.1	−56	47.4	8.4	✓	
49	−57°	473	2	43.4	−57	57.9	8.3	✓	
50	−58°	236	2	44.8	−58	11.1	8.2	✓	
51	−57°	481	2	47.7	−57	42.4	8.2	✓	
52	−57°	482	2	48.7	−57	30.3	8.3	✓	
53	−57°	416	2	9.5	−57	55.8	8.2	✓	
54	−58°	201	2	14.3	−58	23.9	8.3	✓	

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January 16, 1912 (Cont)

13 24 2219 Clock diff.

No.	Class	Dist	Remark
55	B5	4	
56	K	2	
57	A2	2	
58	F5	1	Diffuse
59	F8	6	
60	A5	2	
61	F2	3	
62	Mb	6	
63	F8	5	
64	F8	3	
65	K0	2	
66	Mb	3	
June 11.25 67	F8	5	
68	A5	7	
~~69~~			
~~70~~			

55	-58°	20.4	2	17.3	-58	15.5	8.3	✓
56	-58°	20.5	2	17.9	-58	40.3	8.6	✓
57	-59°	20.4	2	16.8	-59	3.2	8.5	✓
58	-58°	20.9	2	21.8	-58	44.7	8.6	✓
59	-58°	21.4	2	24.2	-58	41.9	7.5	✓
60	-57°	44.6	2	23.4	-57	38.7	8.6	✓
61	-58°	21.5	2	24.4	-58	12.7	8.4	✓
62	-58°	21.7	2	26.6	-58	21.9	7.9	✓
63	-59°	21.5	2	28.1	-59	25.4	7.8	✓
64	-59°	21.4	2	27.9	-59	42.2	8.4	✓
65	-59°	21.6	2	28.4	-59	40.2	8.4	✓
66	-58°	22.4	2	36.5	-58	12.2	8.6	✓
67	-58°	22.5	2	37.2	-58	40.2	7.9	✓
68	-60°	20.6	2	36.4	-60	6.5	7.2	✓

Identified by A.D.St. March 2, 1912.

Checked by J.C.M. March. 6, 1912

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January 16, 1912

June 1135

B 20260 (Short disp.)

No.	Class	Dist.	Remark
1	Fo	6	
2	G	2	
3	Ko	2	
4	Fo	5	
5	G	10	Burned out.
6	Go	6	
7	G	2	
8	A	5	
9	Mo	7	
10	Fo	7	
11	F8	3	
12	G5	2	
13	K	3	
14	K	10+	Burned out
15	A5	9	
16	Go	3	
17	G5	3	
18	G5	2	
19	G	2	
20	G	3	Poor focus
21	Go	3	
22	Fo	3	
23	Fo	4	
24	G5	2	
25	F5	3	
26	A2	3	
27	A	2	

1	-45°	33.6	0	56.6	-45	50.6	7.5 ✓
2	-46°	29.2	0	57.3	-46	33.5	8.9 ✓
3	-47°	30.4	0	55.4	-47	0.9	8.1 ✓
4	-46°	28.9	0	56.1	-46	53.3	8.1 ✓
5	-47°	31.3	0	57.2	-47	4.2	8.9 ✓
6	-47°	31.2	0	57.1	-47	37.5	8.0 ✓
7	-48°	25.0	0	56.4	-48	3.8	9.7 ✓ Very poor for a 9.7 magn star. Var?
8	-48°	25.1	0	56.9	-48	32.6	8.9 ✓
9	-48°	25.9	0	58.8	-48	36.8	6.8 ✓
10	-48°	27.2	1	0.8	-48	15.8	8.0 ✓
11	-48°	27.9	1	2.5	-48	13.5	8.6 ✓
12	-48°	28.6	1	3.7	-48	35.3	8.7 ✓
13	-47°	33.4	1	3.6	-47	47.9	8.5 ✓
14	-47°	32.4	1	0.5	-47	23.4	3.3 ✓
15	-47°	33.3	1	3.0	-47	20.2	7.3 ✓
16	-46°	32.2	1	4.0	-46	55.8	8.3 ✓
17	-46°	30.7	1	1.0	-46	35.5	8.4 ✓
18	-46°	30.3	0	59.8	-46	16.8	8.6 ✓
19	-45°	37.0	1	2.3	-45	58.9	9.2 ✓
20	-46°	31.4	1	2.3	-46	8.8	9.3 ✓
21	-45°	37.2	1	2.4	-45	28.4	9.1 ✓
22	-45°	38.2	1	4.5	-45	9.7	9.2 ✓
23	-46°	32.7	1	6.0	-46	7.8	8.5 ✓
24	-46°	32.8	1	6.2	-46	34.4	8.7 ✓
25	-47°	35.0	1	6.5	-47	5.6	9.0 ✓
26	-47°	36.0	1	8.4	-47	6.1	9.0 ✓
27	-45°	39.8	1	6.6	-45	9.7	9.1 ✓

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January 16, 1912 (Cont)

B 20260 Stnt disp.

No.	Class	Int.	Remark
28	F5	5	
29	F2	4	
30	F5?	10+	Burned out.
31	G5	4	
32	K8	3	
33	F5	4	
34	G2	5	
35	G5	2	
36	F0	7	
37	G	2	
38	K	1	
39	K5	2	
40	F2	4	
41	K2	5	
42	F0	7	
43	K0	7	
44	K0	3	
45	K	1	
46	Ma	5	
47	K0	3	
48	K0	4	
49	G0	6	
50	Mb	7	
51	Mb	4	
52	F5	3	Difficult.
53	K	2	
54	K5	1	Difficult

28	-45° 415	1	9.6	-45	16.9	8.2	✓
29	-48° 412	1	9.2	-45	58.0	8.7	✓
30	-46° 346	1	9.6	-46	12.1	8.3	✓
31	-46° 357	1	12.3	-46	49.8	8.1	✓
32	-46 362	1	13.4	-46	48.4	8.5	✓
33	-47° 385	1	13.7	-47	17.2	8.3	✓
34	-46° 383	1	16.8	-46	32.6	8.6	✓
35	-46° 379	1	15.9	-46	24.7	8.9	✓
36	-45° 444	1	16.1	-45	47.8	7.0	✓
37	-46° 369	1	14.6	-46	7.1	9.3	✓
38	-46° 339	1	12.5	-46	0.6	8.9	✓
39	-45° 433	1	13.4	-45	36.9	8.7	✓
40	-44° 367	1	12.9	-44	51.3	8.3	✓
41	-43° 386	1	13.2	-43	57.4	6.9	✓
42	-44° 388	1	16.9	-44	13.5	6.8	✓
43	-45° 463	1	19.3	-45	10.7	6.4	✓
44	-46° 391	1	19.2	-46	22.3	7.7	✓
45	-46° 393	1	19.7	-46	13.6	8.6	✓
46	-46° 395	1	19.4	-46	35.7	9.6	✓
	-46° 374	1	19.8	-46	54.7	8.6	✓
47	-46° 400	1	20.6	-46	32.4	8.2	✓
48	-46° 406	1	22.1	-46	29.9	7.1	✓
49	-46° 407	1	22.2	-46	48.0	7.9	✓
50	-47° 440	1	24.2	-47	24.2	6.6	✓
~~51~~	~~-48 273~~	~~1~~	~~1.2~~	~~-48~~	~~44.6~~	~~9.1~~	✓
52	-49° 304	1	0.4	-49	36.6	9.1	✓
53	-48° 273	1	1.2	-48	44.6	9.1	✓
54	-49° 330	1	4.3	-49	1.3	9.0	✓

Cards made out

This is the 2nd star called 46 by Uhlo F.

This is a 4th typo star superposed.

Interchanged by A.J.C. June 22/16

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January 16, 1912. (Cont.)

B 20260 Short disp.

Ns.	Class	Sect.	Remark
55	K	2	
56	F5	2	
57	K0	2	
58	M-	5	
59	F8	3	
60	F8	4	
61	F0	4	
62	G0	4	
63	F	3	
64	G5	6	
65	K0	4	
66	F	3	
67	G5	3	
68			
69			

June 11 48

			Wrapn.	
55	-48° 29.3	1 5.6	-48 13.6	8.8 ✓
56	-47° 38.2	1 6.7	-47 48.9	9.2 ✓
57	-47° 37.1	1 10.7	-47 29.8	9.0 ✓
58	-47° 38.9	1 14.0	-47 58.8	7.2 ✓
59	-48° 34.2	1 15.4	-48 17.2	9.0 ✓
60	-48° 34.7	1 15.8	-48 11.2	8.3 ✓
61	-47° 40.2	1 17.0	-47 56.3	8.7 ✓
62	-48° 35.3	1 17.1	-48 21.4	8.3 ✓
63	-48° 36.5	1 20.5	-48 26.0	9.4 ✓
64	-48° 36.7	1 20.7	-48 32.7	7.9 ✓
65	-49° 40.7	1 22.4	-49 9.2	8.3 ✓
66	-48° 38.1	1 24.1	-48 35.0	8.6 ✓
67	-48° 38.5	1 24.7	-48 59.9	8.8 ✓

Identified Feb. 27 1912. L.D.M.

Checked by J. C. M. Feb. 28, 1912

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January 17, 1912

June 2,35

B 12636

No.	Class	Dist.	Remarks
1	Ko	5	
2	F	3	Poor focus
3	F	3	"
4	A	2	
5	F:	2	E
6	F	10+	Burned out
7	K2	2	
8	F5	3	
9	G5	4	
10	M5-	3	
11	G0	3	
12	K0	5	
13	K5	5	
14	F0	3	
15	F5	2	
16	G	2	
17	F8	3	Difficult. Another star superposed
18	F8	1	
19	K0	2	
20	K	1	
21	K	2	
22	F	1	Difficult. Partly superposed star 21
23	F2	2	
24	G0	3	
25	F0	3	Partly superposed
26	F0	2	" "
27	K0	4	

1	-49°	245	0	48.3	-49	28.2	6.7	^ /
2	-49°	247	0	48.7	-49	37.6	7.7	^ √
3	-49°	262	0	51.8	-49	25.0	8.6	^)
4	-49°	268	0	52.7	-49	15.0	8.6	^)
5	-50°	221	0	46.1	-50	49.9	8.7	^)
6	-51°	209	0	46.0	-51	40.2	5.6	^)
7	-51°	221	0	47.2	-51	8.5	8.0	^ √
8	-51°	223	0	47.8	-51	44.0	8.3	^ √
9	-52°	116	0	47.0	-52	13.8	8.0	^ √
10	-50°	270	0	54.3	-50	25.5	7.5	^ /
11	-50°	282	0	56.5	-50	19.7	8.2	^ √
12	-51°	241	0	54.6	-51	12.0	7.7	^ √
13	-51°	237	0	53.2	-51	56.4	7.6	^ √
14	-52°	130	0	52.5	-52	26.0	8.5	^ √
15	-52°	141	0	57.9	-52	5.5	8.7	^ /
16	-52°	139	0	57.5	-52	29.7	8.4	^ /
17	-52°	143	0	58.3	-52	38.8	8.6	-52° 142 0 58.1 -52 39.1 89 Superposed
18	-51°	267	10	59.8	-51	18.0	8.6	^ √
19	-51°	273	1	1.2	-51	39.4	8.8	^ /
20	-51°	289	1	3.7	-51	30.2	8.8	^ √
21	-50°	322	2	5.1	-50	22.8	8.0	^)
22	-50°	323	1	5.2	-50	17.6	9.0	^ √
23	-49°	338	1	6.9	-49	56.6	8.7	^ √
24	-50°	329	1	7.2	-50	25.9	8.3	^ /
25	-51°	311	1	8.4	-51	19.3	8.4	^ √
26	-51°	312	1	8.4	-51	18.9	8.4	^ √
27	-51°	313	1	9.0	-51	4.8	7.7	/

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January 17, 1912 (Cont'l)
B12636

No.	Class	Dist.	Remarks
28	Q2	5	
29	K	2	
30	A5	7	
31	A0	5	
32	K0	7	
33	K0	3	
34	A	2	
35	F2	7	
36	G	1	
37	F5	5	
38	Q2	2	
39	F	2	
40	K	1	
41	A5	2	Difficult
42	K	1	
43	G0	6	
44	F	1	
45	G	10+	Burned out
46	G0	4	
47	F5	6	
48	F0	5	
49	K0	3	
50	G5	3	
51	F0	4	
52	A3	2	
53	G0	5	
54	G5	4	

28	-51°	325	1	12.4	-51	41.6	7.8	∧ √
29	-52°	156	1	10.8	-52	33.2	8.7	∧ √
30	-52°	161	1	12.7	-52	45.9	7.6	∧ √
31	-52°	170	1	16.5	-52	43.9	8.1	∧ √
32	-51°	337	1	16.2	-51	35.5	6.4	∧ J
33	-50°	363	1	15.3	-50	13.2	8.1	∧ √
34	-50°	367	1	15.9	-50	17.8	9.0	∧ J
35	-50°	368	1	16.0	-50	23.8	7.0	∧ √
36	-50°	370	1	16.5	-50	1.6	8.8	∧ J
37	-49°	377	1	15.0	-49	20.2	7.9	∧ √
38	-48°	338	1	14.1	-48	57.0	8.8	∧ J
39	-49°	369	1	12.6	-49	16.0	8.2	∧ /
40	-50°	349	1	12.5	-50	27.4	8.1	∧ J
41	-50°	382	1	18.9	-50	10.2	9.2	∧ √
42	-49°	401	1	21.6	-49	54.6	8.7	∧ J
43	-49°	410	1	23.1	-49	39.2	7.1	∧ √
44	-49°	412	1	23.5	-49	25.9	8.9	∧ J
45	-49°	425	1	26.0	-49	43.4	4.0	∧ √
46	-50°	410	1	27.4	-50	10.3	7.9	∧ J
47	-50°	411	1	27.5	-50	22.3	6.9	∧ J
48	-50°	407	1	26.2	-50	32.8	7.7	∧ √
49	-50°	412	1	28.0	-50	45.7	8.5	∧ J
50	-51°	387	1	28.6	-51	2.6	8.1	∧ √
51	-51°	377	1	26.8	-51	12.7	8.3	∧ J
52	-51°	389	1	29.5	-51	45.6	8.8	∧ J
53	-51°	373	1	25.9	-51	51.6	7.6	∧ J
54	-52°	181	1	24.4	-52	8.3	7.8	∧ √

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January 17, 1912 (Cont)

B 12636

No	Class	Int	Remark
55	K	1	
56	K5	5	
57	K	4	
58	K2	4	
59	K2	5	
60	K	1	
61	K5	6	
62	K	7	
63	Ma	3	
64	K	10	Burned out
65	K	4	?
June 2.45 66	Ma?	8	?

55	-52°	182	1	24.6	-52	25.8	8.8
56	-52°	177	1	21.8	-52	10.1	8.1
57	-52°	178	1	21.9	-52	36.9	8.2
58	-53°	332	1	24.5	-53	0.7	8.0
59	-53°	336	1	25.3	-53	8.3	7.7
60	-52°	202	1	33.0	-52	28.0	8.8
61	-49°	447	1	31.7	-49 -64	26.6	6.9
62	-49°	464	1	34.0	-49	24.6	7.6
63	-49°	469	1	35.0	-49	23.6	7.2
64	-50°	461	1	36.7	-50	40.2	6.7
65	-51°	417	1	39.7	-51	38.9	8.0
66	-51°	419	1	41.2	-51	26.3	5.8

Identified March 29, 1912 · J. C. M.

Checked May 28 1912 J.D.W.

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January 17, 1912.
B41875

No.	Class	Inst.	Remark
1	G5	4	
2	A	5	
3	F	4	Poor focus
4	Ma	2	
5	K0	5	
6	Mc	8	
7	K0	3	
8	A0	9	
9	G5	3	
10	K0	3	
11	A5	2	
12	K	1	
13	F0	2	
14	Ma	3	
15	F8	2	
16	F2	3	
17	F5	2	
18	G5	2	
19	F0	6	
20	F8	2	
21	F2	1	
22	F2	2	
23	F0	4	
24	K5	5	
25	G0	3	
26	K2	10	Light intense at red end.
27	F0	2	
28	F0	2	

1	CBM	-49° 447	1	31.7	-49	26.6	6.9 ✓
2		-49° 484	1	34.0	-49	24.1	7.1 ✓
3		~~-48° 480~~ -49° 467	1	~~33.1~~ 35.0	~~-48~~ -49	~~34.6~~ 23.6	~~7.4~~ 7.2 ✓
4		-49° 469	1	35.0	-49	23.6	7.2 ✓
5		-48° 487	1	45.3	-48	21.2	6.4 ✓
6		-48° 532	1	48.6	-48	~~54.8~~ 54.6	4.8 ✓
7		-48° 539	1	46.3	-48	5.5	7.1 ✓
8		-48° 420	1	26.3	-48	13.0	6.3 ✓
9		-48° 433	1	29.0	-48	20.2	7.1 ✓
10		-48° 453	1	32.8	-48	43.2	7.0 ✓
11		-47° 459	1	32.4	-47	44.9	8.1 ✓
12		-47° 490	1	32.6	-47	48.9	7.7 ✓
13		-48° 474	1	36.4	-48	38.4	8.5 ✓
14		-48° 312	1	42.5	-48	52.9	7.2 ✓
15		-45° 578	1	41.0	-45	54.9	8.4 ✓
16		-45° 500	1	26.2	-45	18.0	7.7 ✓
17		-44° 423	1	26.2	-44	29.4	7.7 ✓
18		-44° 434	1	28.1	-44	32.7	7.6 ✓
19		-43° 383	1	33.2	-43	33.7	6.7 ✓
20		-45° 542	1	33.4	-45	13.8	7.9 ✓
21		-45° 548	1	35.2	-45	40.2	8.6 ✓
22		-44° 502	1	39.7	-44	16.3	8.2 ✓
23		-43° 532	1	42.0	-43	15.9	7.2 ✓
24		-42° 633	1	42.0	-42	23.1	6.4 ✓
25		-42° 638	1	43.0	-42	7.3	7.0 ✓
26		-43° 449	1	22.9	-43	57.6	3.4 ✓
27		-43° 451	1	23.3	-43	57.2	8.3 ✓
28		-42° 531	1	26.9	-42	9.0	8.4 ✓

Checked by J.C.M. Feb 27, 1912

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January 17, 1912

B12227 Shot dispersion

No.	Class	Int.	Remark
1	K0	7	E
2	K2	4	E
3	K2	10	
4	A5	2	
5	G	1	
6	F5	8	
7	K0	3	
8	F	5	
9	A	10	
10	G5	5	
11	K	2	
12	G5	7	
13	F2	5	
14	A2	7	
15	A3	3	
16	F5	4	
17	F5	3	
18	K2	2	
19	F	1	
20	A2	5	
21	K2	5	E
22	K	2	
23	K0	2	
24	K0	6	
25	G5	3	
26	F0	3	
27	F	2	Difficult
28	F	2	"

1	-42°	493	1	19.1	-42	8.6	5.8	
2	-42°	508	1	21.5	-42	23.7	6.8	
3	-43°	449	1	22.9	-43	57.6	3.4	
4	-43°	451	1	23.3	-43	57.2	8.3	
5	-43°	456	1	24.0	-43	48.2	8.0	
6	-44°	423	1	26.2	-44	29.4	7.7	
7	-44°	434	1	28.1	-44	32.7	7.5	
8	-45°	500	1	26.2	-45	18.0	7.7	
9	-46°	420	1	26.3	-46	13.0	6.3	
10	-46°	433	1	29.0	-46	20.2	7.1	
11	-45°	512	1	27.4	-45	22.9	8.6	
12	-45°	531	1	31.4	-45	26.7	8.9	
13	-45°	542	1	33.4	-45	13.8	7.9	
14	-43°	503	1	33.2	-43	33.7	6.7	
15	-44°	502	1	39.7	-44	16.3	8.2	
16	-44°	522	1	42.5	-44	35.4	7.5	
17	-44°	528	1	43.4	-44	43.5	8.1	
18	-44°	532	1	44.1	-44	51.9	7.9	
19	-44°	526	1	43.1	-44	57.3	8.7	
20	-43°	552	1	42.0	-43	15.9	7.2	
21	-42°	638	1	~~47.5~~ 42.0	-42	~~45.6~~ 23.1	~~7.4~~ 6.4	
22	-42°	630	1	41.5	-42	45.6	7.4	
23	-43°	566	1	45.2	-43	7.5	7.4	
24	-46°	453	1	32.8	-46	43.2	7.0	
25	-46°	460	1	33.7	-46	24.5	8.0	
26	-46°	474	1	36.4	-46	38.4	8.5	
27	-45°	547	1	35.2	-45	40.2	8.6	
28	-45°	568	1	37.6	-15	30.8	8.6	

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January 14 1912
B 12227 Shot dispersion

No	Class	Int	Remark
29	Gs	3	
30	Fs	3	
31	Fe	3	
32	Fs?	2	Difficult
33	Ko	4	
34	Fs	2	
35	Mk	8	
36	Ko	2	
37	Gs	3	
38	Go	4	
39	Gs	1	
40	Ma	4	
41	Go	10	Burned out
42	Fe	2	Difficult
43	A2	4	
44	Ko	6	
45	Ma	3	
46	A0	7	
47	Fs	4	
48	Gs	6	
49	A3	6	
50	Go	3	
51	A0?	3	Partly superposed on 50
52	F	3	
10 08 53	Fs	2	Another star partly superposed.
June 3:14 54	G5	5	
55	Ko	3	

	29									
29	30	-45°	574	1	39.4	-45	52.9	8.1	∧	∨
30	31	-45°	577	1	40.1	-45	42.4	8.3	∧	∨
31	32	-45°	578	1	41.0	-45	54.9	8.4	∧	∨
32	33	-46°	490	1	39.2	-46	14.4	9.0	∧	∨
33	34	-46°	539	1	46.3	-46	5.5	7.1	∧	∨
34	35	-46°	542	1	46.8	-46	23.3	9.0	∧	∨
35	36	-46°	552	1	48.6	-46	54.8	4.8	∧	∨
36	37	-46°	562	1	49.3	-46	35.0	8.1	∧	∨
37	38	-47°	567	1	47.0	-47	15.7	8.0	∧	∨
38	39	-47°	552	1	44.5	-47	23.6	7.9	∧	∨
39	40	-47°	551	1	44.2	-47	6.7	8.4 8.X	∧	∨
40	41	-46°	512	1	42.5	-46	52.9	7.2	∧	∨
41	42	-47°	597	1	52.2	-47	59.7	5.1 7.5	∧	∨
42	43	-48°	498	1	47.7	-48	17.8	9.2	∧	∨
43	44	-48°	497	1	47.3	-48	7.6	8.2	∧	∨
44	45	-48°	487	1	45.3	-48	26.2	6.4	∧	∨
45	46	-47°	469	1	35.0	-49	23.6	7.2	∧	∨
46	47	-49°	464	1	34.0	-49	24.6	7.6	∧	∨
47		-48°	426	1	32.0	-48	55.5	7.6	∧	∨
48		-49°	447	1	31.7	-49	26.6	6.9	∧	∨
49		-48°	430	1	33.1	-48	34.0	7.4	∧	∨
50		-47°	490	1	32.6	-47	48.9	7.7	∧	∨
51		-47°	489	1	32.4	-47	44.9	8.1	∧	∨
52		-47°	463	1	28.1	-47	57.1	8.2	∧	∨
53		-49°	430	1	27.5	-49	15.4	8.6	∧	∨
54		-49°	555	1	54.8	-49	13.2	7.9	∧	∨
55		-49°	539	1	52.1	-49	51.5	8.2	∧	∨

Carr made

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January 18, 1912 (Cont)
B 12.2.27

No.	Class	Int	Remark
56	F8	3	
57	A	8	Burned out
58	K2	3	
59	A0	8	
60	A	5	
61	Ma	8	
62	K0	3	
63	K5	2	
64	A0	3	
65	A0	8	
66	K0	3	
67	K5	3	
68	K2	1	
June 3:17	69	K0	3
	70		

56	-50°	547	1	51.8	-50	1.0	8.5	∧∨
57	-50°	545	1	51.3	-50	26.8	6.4	∧∨
58	-50°	522	1	47.0	-50	36.5	8.0	∧∨
59	-50°	514	1	46.0	-50	49.5	6.1	∧∨
60	-51°	434	1	44.0	-51	6.3	7.6	∧∨
61	-51°	419	1	41.2	-51	26.3	5.8	∧/
62	-51°	417	1	39.7	-51	38.9	8.0	∧∨
63	-51°	414	1	38.8	-51	16.3	8.1	∧∨
64	-50°	476	1	39.3	-50	43.4	8.6	∧∨
65	-50°	461	1	36.7	-50	40.2	6.7	∧∨
66	-50°	478	1	39.8	-50	7.2	8.6	∧∨
67	-50°	487	1	41.9	-50	16.1	8.5	∧∨
68	-50°	424	1	29.7	-50	26.6	8.3	∧∨
69	-51°	387	1	28.6	-51	2.6	8.1	∧∨

Identified by J. C. M. April 23, 1912.
Checked May 27 1912 L.B.W.

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January 18, 1912

June 3.20 B12329

No.	Class	Dist.	Remark
1	Ko	4	
2	Ko	3	
3	∂o	7	
4	∂5	2	
5	∂5	3	
6	Ko	2	
7	∂	8	E. Burned out.
8	∂5	3	
9	Ao	4	
10	Ao	3	
11	∂	2	Focus poor.
12	∂	1	
13	∂	2 X	
14	Ao	5	
15	∂5	3	
16	∂8	2	
17	B8	5	
18	∂5	1	
19	∂2	5	
20	∂5	7	
21	∂5	3	
22	Ko	7	E
23	∂8	5	E
24	∂2	4	
25	Ao	5	
26	∂	1	
27	Ko	8	

C Dm

1	−38°	573	1	34	11.1	−38	6.6	7.7	✓	✓	
2	−38°	556	1	32	0.5	−38	46.2	7.4	✓	✓	
3	−38°	584	1	35	57.3	−38	46.2	6.4	✓	✓	
4	−39°	522	1	38	4.8	−39	7.9	8.3	✓	✓	
5	−39°	512	1	36	36.7	−39	47.5	7.7	✓	✓	
6	−40°	394	1	30	10.1	−40	28.5	8.1	✓	✓	
7	−40°	395	1	30	23.2	−40	35.5	6.6	✓	✓	
8	−40°	399	1	31	18.1	−40	47.0	8.5	✓	✓	
9	−40°	404	1	31	51.7	−40	49.0	8.3	✓	✓	
10	−41°	446	1	33	23.7	−41	7.0	8.5	✓	✓	
11	−40°	409	1	32	57.4	−40	14.1	9.0	✓	✓	1 32 565 − 40 19.1 9.5 De −40° 40.8 superposed? ✓
12	−41°	461	1	36	14.2	−41	2.5	8.7	✓	✓	
13	−41°	455	1	35	18.6	−41	46.4	8.7	✓	✓	
14	−41°	466	1	36	40.7	−41	45.2	8.0	✓	✓	
15	−42°	592	1	37	22.2	−42	16.6	7.8	✓	✓	
16	−40°	444	1	40	49.7	−40	53.0	8.7	✓	✓	
17	−40°	445	1	41	19.2	−40	34.0	8.0	✓	✓	
18	−40°	450	1	42	25.6	−40	11.1	8.4	✓	✓	
19	−39°	548	1	43	16.9	−39	17.1	7.5	✓	✓	
20	−39°	553	1	44	25.4	−39	2.1	6.4	✓	✓	
21	−39°	556	1	44	39.2	−39	27.1	8.0	✓	✓	
22	−37°	687	1	42	20.2	−37	47.3	6.5	✓	✓	
23	−38°	719	1	46	26.0	−37	39.3	7.5	✓	✓	
24	−39°	567	1	46	32.7	−39	29.4	8.0	✓	✓	
25	−39°	569	1	47	3.4	−39	22.0	8.0	✓	✓	
26	−39°	568	1	47	1.8	−39	11.0	8.7	✓	✓	
27	−39°	573	1	48	0.3	−39	12.5	6.3	✓	✓	

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January 18, 19, 21 (Cont.)
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No.	Class	Dist.	Remarks
28	Y5	3	
29	F5	4	
30	K0	7	
31	G	2	
32	G	2	
33	G0	6	
34	K2	6	
35	K2	3	
36	K	2	
37	G5	6	
38	G5	2	
39	G5	3	
40	G	2	Brighter of two
41	G	2	R.
42	F8	8	
43	K0	3	
44	F	2	
45	B8?	10	Burned out.
46	Q5?	3	Focus fuzzy
47	F	4	
48	F0	6	
49	G0	6	
50	G0	4	
51	G	1	
52	F5	5	
53	G0	2	
54	G5	2	

28	-40°	470	1	47	1.7	-40	1.6	7.8	✓	✓
29	-40°	468	1	46	53.7	-40	17.1	8.3	✓	✓
30	-40°	465	1	46	7.3	-40	27.0	6.7	✓	✓
31	-41°	511	1	46	37.0	-41	15.8	8.3	✓	✓
32	-41°	492	1	42	27.5	-41	51.1	8.7	✓	✓ NI 493 1 W2 28.14 NI 53.0 8.5 Superposed
33	-42°	638	1	42	58.4	-42	7.3	7.0	✓	✓
34	-42°	633	1	41	59.0	-42	23.1	6.4	✓	✓
~~35~~	-42°	630	1	41	29.1	-42	45.6	7.4	✓	✓
36	-43°	544	1	40	56.9	-43	0.4	7.7	✓	✓
37	-43°	552	1	42	2.8	-43	15.9	7.2	✓	✓
38	-43°	542	1	40	36.8	-43	27.2	8.9	✓	✓
39	-43°	546	1	41	25.8	-43	56.9	8.2	✓	✓
40	-44°	512	1	40	45.9	-44	32.4	8.7	✓✓	
41	-43°	488	1	30	28.4	-43	38.3	7.8	✓	✓
42	-43°	564	1	44	30.7	-43	13.0	8.9	✓	✓
43	-43°	566	1	45	14.6	-43	7.5	7.4	✓	✓
44	-43°	569	1	46	9.2	-43	57.3	9.0	✓	✓
45	-43°	583	1	49	10.7	-43	6.6	5.5	✓	✓
46	-41°	523	1	49	43.2	-41	34.7	8.3	✓	✓
47	-41°	537	1	52	17.1	-41	14.7	8.0	✓	✓
48	-41°	546	1	53	13.6	-41	46.4	7.3	✓	✓
49	-41°	552	1	54	13.9	-41	20.4	7.1	✓	✓
50	-41°	556	1	55	15.2	-41	19.7	7.1	✓	✓
51	-40°	514	1	55	20.6	-40	52.7	7.9	✓	✓
52	-41°	567	1	57	19.0	-41	7.5	7.7	✓	✓
53	-41°	574	1	58	30.7	-41	4.5	8.5	✓	✓
54	-40°	537	2	0	11.9	-40	53.7	8.5	✓	✓

Comet made out

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January 18, 1912 (Cont.)

B 12229

No.	Class	Int.	Remark
55	Ma	5	
56	F5	3	
57	F5	3	
58	F	2	
59	G	2	
60	G	2	
61	F8	3	
62	K2	6	
63	K2	8	
64	G5	10	
65	K2	3	
66	G	1	
67	K	2	
68	G	1	
69	F5	3	
70	Q2	18	
71	G0	2	
72	F0	6	
73	G5	2	
74	G?	3	Another star suspected?
75	G5	8	
76	Ma	4	
77	G5	6	
78	Q	4	E
79	F5	2	
80	F8	1	
81	F5	3	

55	-40°	544	2	1	2.8	-40	8.5	7.2	✓	✓
56	-40°	525	1	57	21.8	-40	1.1	8.5	✓	✓
57	-39°	609	1	56	25.6	-39	55.2	8.3	✓	✓
58	-39°	608	1	56	35.3	-39	24.4	8.5	✓	✓
59	-40°	515	1	55	23.7	-40	16.6	8.4	✓	✓
60	-39°	597	1	52	50.1	-39	56.9	8.1	✓	✓
61	-43°	592	1	50	40.8	-43	39.5	9.0	✓	✓
62	-43°	599	1	51	41.6	-43	47.2	7.6	✓	✓
63	-43°	606	1	53	48.8	-43	33.4	7.3	✓	✓
64	-42°	684	1	54	30.2	-42	38.2	5.9	✓	✓
65	-42°	688	1	55	18.1	-42	22.7	7.2	✓	✓
66	-42°	685	1	54	57.8	-42	9.2	8.3	✓	✓
67	-42°	699	1	57	37.1	-42	14.4	8.0	✓	✓
68	-42°	707	1	59	18.7	-42	46.1	9.2	✓	✓
69	-41°	581	2	0	33.3	-41	46.7	8.3	✓	✓
70	-42°	727	2	3	0.6	-42	28.4	6.5	✓	✓
71	-41°	596	2	4	23.1	-41	59.3	8.1	✓	✓
72	-41°	598	2	4	41.1	-41	27.2	6.6	✓	✓
73	-41°	613	2	7	45.9	-41	50.9	8.7	✓	✓
74	-42°	751	2	7	53.5	-42	2.3	9.1	✓	✓
75	-41°	621	2	9	29.0	-41	45.2	6.1	✓	✓
76	-41°	626	2	10	22.3	-41	39.3	7.0	✓	✓
77	-42°	785	2	14	25.6	-42	25.4	6.6	✓	✓
78	-41°	658	2	15	14.0	-41	57.9	8.5	✓	✓
79	-45°	632	1	51	31.3	-45	25.9	8.3	✓	✓
80	-44°	580	1	53	55.3	-44	31.8	9.0	✓	✓
81	-45°	649	1	54	16.4	-45	21.1	8.1	✓	✓

Comm made off

74 -42° 751 ✓ 2 7 53.5 -42 2.3 9.1 ✓ ✓ -42° 7SD 57.32 -42° 8.4 9.1 superposed

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January 18, 1912 (Cont)
B 122 29

No.	Class	Int.	Remark
82	F2	2	
83	H	5	
84	K0	8	
85	F5	2	
86	G	2	
87	G0	5	
88	Q3	3	
89	G5	1	
90	G5	8	
91	G0	7	
92	G5	2	
93	G5	2	
94	G	1	
95	G	2	
96	F0	3	
97	G5	4	
98	G	2	Partly superposed
99	G5	3	" "
100	K	2	"
101	F5	5	
102	G0	5	
103	F0	6	
104	G5	4	
105	K0	2	
106	K0	2	
June 3'47 107	Q5	7	

82	−45°	652	1	54	57.0	−45	9.0	8.7	✓	✓
83	−44°	587	1	55	48.8	−44	26.0	8.1	✓	✓
84	−45°	659	1	56	41.7	−45	19.0	5.6	✓	✓
85	−44°	596	1	58	7.4	−44	12.7	8.9	✓	✓
86	−44°	600	1	58	58.2	−44	36.1	8.4	✓	✓
87	−44°	603	1	59	21.2	−44	6.5	7.5	✓	✓
88	−43°	635	2	0	9.9	−43	18.9	8.1	✓	✓
89	−43°	651	2	3	38.2	−43	51.6	8.7	✓	✓
90	−44°	632	2	4	10.2	−44	6.5	6.1	✓	✓
91	−44°	638	2	5	5.7	−44	24.3	6.5	✓	✓
92	−44°	642	2	5	57.0	−44	23.8	8.8	✓	✓
93	−44°	647	2	6	42.0	−44	9.9	8.7	✓	✓
94	−44°	649	2	6	54.1	−44	3.6	8.8	✓	✓
95	−44°	666	2	10	2.6	−44	8.2	8.6	✓	✓
96	−44°	669	2	10	37.8	−44	15.2	8.7	✓	✓
97	−43°	696	2	11	32.4	−43	50.7	7.4	✓	✓
98	−43°	697	2	11	33.6	−43	31.8	9.0	✓	✓
99	−43°	698	2	11	40.5	−43	30.3	7.7	✓	✓
100	−46°	588	1	54	39.5	−46	52.2	8.2	✓	✓
101	−46°	597	1	57	12.8	−46	26.2	7.6	✓	✓
102	−46°	604	1	58	54.0	−46	1.0	7.1	✓	✓
103	−46°	632	2	4	39.8	−46	3.7	7.1	✓	✓
104	−46°	643	2	5	37.1	−46	2.1	7.1	✓	✓
105	−45°	689	2	3	44.2	−45	5.0	8.5	✓	✓
106	−44°	652	2	7	29.6	−44	57.2	8.3	✓	✓
107	−45°	711	2	7	52.0	−45	4.5	7.8	✓	✓

Identified by A. D. W. Feb. 1, '12.

Comb. with 82

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January 24, 1912

June 10.57

I 3744 33

No.	Class	Int.	Remarks
1	95	2	E
2	95	2	E
3	95	2	E
4	Q3	6	
5	f0	3	
6	95	4	
7	K	10	
8	f2	3	
9	90	7	
10	9	1	
11	Q3	3	9 bad pair. Look up
12	Q	21	Diffisult
13	f	3	
14	f5	4	
15	95	4	
16	f8	21	
17	9	21	
18	Q2	10	
19	Q21	21	
20	95	6	
21	Q3	3	E
22	f	21	Very poor
23	95	5	
24	90	4	
25	K	1	
26	f0	6	
27	K0	21	

No	Q.M.	R.A.	Dec.	Mg	
1	−0 27.4	1 40 10.2	−0 38.9	8.0	✓
2	+0 28.7	1 39 54.5	+0 07.1	8.0	✓
3	−0 27.7	1 40 03.1	−0 16.2	8.5	✓
4	+0 29.4	1 41 33.6	+0 37.4	8.0	✓
5	+0 30.2	1 43 9.5	+0 31.5	8.5	✓
6	+1 34.3	1 45 10.0	+1 47.1	8.5	✓
7	+2 29.0	1 46 4.0	+2 28.6	4.5	✓
8	+2 29.4	1 47 17.3	+2 39.7	8.0	✓
9	+1 34.7	1 48 23.9	+1 7.5	6.2	✓
10	+0 31.3	1 49 14.1	+0 56.6	8.5	✓
11	−0 30.1	1 51 43.4	−0 11.0	8.3	✓
12	−0 30.4	1 53 17.9	−0 20.2	8.5	✓
13	−0 30.5	1 54 2.9	−0 14.2	8.3	✓
14	+0 33.0	1 54 11.1	+0 38.4	8.7	✓
15	+1 36.2	1 55 17.8	+1 14.4	8.3	✓
16	+1 36.3	1 55 35.1	+1 9.4	8.5	✓
17	+0 34.1	1 56 4.8	+0 54.8	9.0	✓
18	−0 30.7	1 56 46.9	−0 34.3	6.0	✓
19	−0 30.9	1 56 10.4	−0 43.4	8.5	✓
20	−1 28.5	1 56 22.8	* −1 2.5	7.3	✓
21	−1 28.8	1 57 47.4	−1 39.7	8.3	✓
22	−0 31.5	1 57 57.9	−0 23.2	8.0	✓
23	−0 31.8	1 59 6.9	−0 40.2	7.5	✓
24	−1 29.3	2 K 0 14.4	−1 18.7	7.5	✓
25	−1 29.6	2 1 4.6	−1 4.7	8.3	✓
26	−1 27.7	2 1 21.9	−1 6.7	7.8	✓
27	−2 36.2	1 59 34.4	−2 30.8	79	✓

Card Made

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January 24, 1912 (Cont.)

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No.	Class	Sect.	Remark
28	K0	5	E
29	Y0	7	
30	Y5	2	
31	Y5	4	
32	F8	2	
33	F8	2	
34	A	10	Bunsel nts.
35	F8	2	
36	Y0	5	
37	K0	4	
38	Q2	3	
39	Y5	2	
40	Y5	2	
41	Q5	2	
42	F5	2	Difficult
43	K0	2	
44	K	2	
45	K0	4	
46	Q2	6	
47	Y5	4	
48	Q3	4	
49	F8	5	
50	Y0	5	
51	F8	6	
52	K0	3	
53	Y	4	E
54	Y	4	E

No.	D.M.	R.A.	Dec.	Mag	
28	−2 3705	2 4 14.4	−2 30.5	6.3	✓
29	+2 311	1 52 36.9	+2 24.1	6.5	✓
30	+3 272	1 52 16.3	+3 52.8	8.3	✓
31	+3 273	1 52 48.7	+3 42.3	7.5	✓
32	+2 313	1 54 8.6	+2 58.4	8.5	J
33	+2 315	1 54 17.7	+2 10.8	8.7	J
34	+2 317	1 54 33.8	+2 3.7	3.5	✓
35	+2 320	1 54 57.3	+2 7.8	8.7	✓
36	+2 321	1 55 29.2	+2 39.1	8.0	J
37	+0 352	1 59 20.7	+0 44.8	8.0	✓
38	+0 356	2 1 16.6	+0 10.5	8.3	J
39	−0 326	2 2 45.0	−0 11.7	8.3	✓
40	+1 375	2 1 9.9	+1 14.4	8.8	J
41	+81 3618	2 8 12.5	+81 1.3	8.8	✓
42	+1 379	2 2 56.0	+1 15.8	7.0	J
43	+0 362	2 3 54.4	+0 59.0	8.7	✓
44	−0 329	2 4 18.5	−0 27.4	8.5	J
45	+0 369	2 7 9.1	+0 58.7	7.5	J
46	+0 370	2 7 44.0	+0 3.0	7.2	✓
47	+1 403	2 8 58.1	+1 35.0	8.0	J
48	+1 404	2 9 1.6	+1 24.0	8.2	✓
49	+1 406	2 9 19.7	+1 53.9	8.2	✓
50	+1 407	2 9 44.8	+1 11.8	7.7	J
51	+1 410	2 10 30.4	+1 4.0	5.8	✓
52	+1 412	2 11 49.8	+1 59.7	8.2	✓
53	+2 360	2 11 57.8	+2 9.1	7.8	✓
54	+2 358	2 11 39.3	+2 52.6	8.0	J

cards made

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January 24, 1912 (Cont.)

I 37433

No.	Class	Sect.	Remark
55	G5	4	E
56	Q3	5	
57	F	5	E
58	G5	6	
59	F5	2	Focus poor
60	F8	3	"
61	G5	3	
62	G	2	
63	B9	6	Poor focus
64	F	3	
65	F8	2	
66	G5	5	
67	K	3	The nucleus of Ins.
68	G5	3	
69	F5	2	Difficult
70	Q0	5	
71	K5	4	
72	F0	6	
73	G0	4	
74	G5	4	
75	Q2	7	
76	A5	7	
77	G5	6	
78	F8	3	
79	F0	4	
80	G5	2	
81	F0	7	

No	D.m.	R.A.	Dec.	Mg	
55	+3 8 23.3	2 11 8.3	+3 51.3	8.0	J
56	+2 26.6	1 38 14.0	+2 57.0	6.8	✓
57	+2 26.8	1 38 26.1	+2 40.4	7.3	✓
58	+2 27.0	1 40 56.1	+2 56.9	6.5	✓
59	+1 32.2	1 40 46.1	+1 57.4	8.5	✓
60	+3 24.9	1 43 27.1	+3 28.8	8.5	✓
61	+3 25.7	1 45 15.0	+3 56.1	8.5	✓
62	+3 26.0	1 46 43.0	+3 52.3	8.7	✓
63	+5 26.2	1 47 44.9	+5 42.5	8.0	✓
64	+5 26.9	1 51 20.0	+5 58.0	8.2	✓
65	+5 27.0	1 51 30.5	+5 43.4	8.5	✓
66	+5 27.4	1 52 23.6	+5 20.6	7.5	✓
67	+6 31.4	1 52 36.2	+6 13.7	7.7	✓
68	+4 34.0	1 53 34.0	+4 37.1	8.0	✓
69	+4 34.8	1 58 20.1	+4 36.8	8.5	✓
70	+4 35.4	2 0 57.0	+4 56.4	7.7	✓
71	+5 28.5	2 2 12.0	+5 17.6	7.5	✓
72	+5 28.9	2 2 48.0	+5 17.6	7.7	✓
73	+5 27.3	2 2 57.0	+5 24.3	7.7	✓
74	+3 28.8	2 2 7.0	+3 33.3	7.5	✓
75	+3 28.9	2 2 21.1	+3 4.3	7.1	✓
76	+2 34.6	2 4 13.1	+2 46.9	7.4	✓
77	+2 34.7	2 4 46.2	+2 57.2	7.3	✓
78	+3 31.0	2 7 36.2	+3 10.8	8.3	✓
79	+3 30.5	2 5 27.7	+3 36.5	8.5	✓
80	+4 36.6	2 5 46.8	+4 4.3	8.5	✓
81	+4 36.7	2 5 56.5	+4 20.1	7.3	✓

Circle made OK

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No.	Class	Dist.	Remark
82	F5	2	
83	F0	4	
84	F2	6	
85	F5	6	
86	K0	6	
87	F0	7	
88	F2	3	
89	Ma	4	
90	F2	3	Difficult.
91	K0	4	

Time 11.22

Cards made out

No.	Q. M.		R. A.		Dec.		Mg.	
82	+3	3°07	2h 6m	9.8s	+3	57.5	8.5	✓
83	+3	3°13	2h 8m	52.2s	+3	57.0	8.0	✓
84	+7	3°13	1h 54m	13.3s	+7	7.9	7.3	✓
85	+7	3°17	1h 56m	22.0s	+7	23.6	7.5	✓
86	+7	3°21	1h 57m	14.0s	+7	2.2	7.0	✓
87	+6	3°24	1h 58m	12.1s	+6	20.6	7.0	✓
88	+5	2°80	1h 58m	19.0s	+5	55.8	7.8	✓
89	+7	3°24	1h 58m	34.5s	+7	33.0	7.0	✓
90	+6	3°27	1h 59m	32.4s	+6	36.6	8.5	✓
91	+5	3°03	2h 6m	58.9s	+5	57.9	8.0	✓

Identified by C.L.A. Feb. 13, 1912

Checked by J.C.M. Feb. 27, 1912

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January 24, 1912

Time 11.28

I 3741 2

No.	Class	Dist.	Remark
1	A	4	E
2	G	3	E
3	G5	2	E
4	G0	5	
5	K	2	
6	F5	3	
7	G	2	
8	G5	3	
9	G	2	Difficult
10	B8	5	
11	K0	4	
12	F8	2	Another star superposed. 12 = N.p.
13	F8	3	
14	G5	6	too dense
15	G5	3	
16	K5	1	
17	A5	2	Difficult
18	F0	8	
19	A0	8	
20	A0	2	
21	K0	2	
22	F5	2	
23	G5	8	
24	G5	8	
25	K	2	
26	A2	3	Focus poor
27	G5	2	

No	Dm		Ra			Dec		Mg	
1	+10	65	0	29	46.1	+10	37.6	7.3	✓
2	+10	70	0	32	8.1	+10	44.2	7.3	✓
3	+11	86	0	34	36.7	+11	9.4	8.2	✓
4	+12	75	0	34	0.7	+12	9.8	7.7	✓
5	+12	78	0	34	24.0	+12	20.0	8.4	✓
6	+12	94	0	34	48.5	+12	12.4	8.5	✓
7	+12	80	0	35	6.2	+12	56.7	8.8	I
8	+12	83	0	36	40.0	+12	31.0	8.2	✓
9	+12	86	0	38	21.6	+12	59.4	9.1	✓
10	+13	107	0	37	5.6	+13	18.2	8.7	✓
11	+12	87	0	38	57.0	+12	21.3	7.5	✓
12	+12	87	0	40	8.0	+12	4.7	8.4	✓
13	+11	92	0	38	31.8	+11	18.5	8.3	✓
14	+11	96	0	39	28.4	+11	11.7	8.2	✓
15	+10	87	0	39	58.5	+10	51.1	7.7	✓
16	+12	95	0	41	24.2	+12	5.1	8.3	✓
17	+11	98	0	41	4.4	+11	22.4	8.8	✓
18	+11	106	0	44	0.1	+11	57.9	7.0	✓
19	+12	104	0	44	54.4	+12	57.6	7.3	✓
20	+11	111	0	45	17.5	+11	28.0	9.1	✓
21	+12°	108	0	47	26.5	+12	3.9	8.2	✓
22	+12	112	0	48	27.5	+12	49.4	8.9	✓
23	+13	127	0	48	32.7	+13	10.6	6.5	✓
24	+12	119	0	50	15.7	+12	56.1	6.0	✓
25	+11	120	0	49	45.7	+11	39.1	8.2	I
26	+11	122	0	50	19.6	+11	15.2	8.5	✓
27	+11	124	0	50	53.8	+11	21.1	8.5	✓

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No.	Class	Sect.	Remark
28	A5	4	
29	A	2	
30	F5	4	
31	K5	2	
32	K5	3	
33	K	1	
34	F2	4	
35	K0	3	
36	K5	6	
37	F5	4	
38	F0	6	
39	F5	3	e.
40	F0	4	e.
41	B3	9	e.
42	F5	2	e.
43	K5	4	
44	K0	3	
45	K	2	
46	G	2	
47	A0	2	
48	K5	2	
49	F5	4	
50	F0	2	
51	F0	4	
52	Ma	7	
53	K5	5	
54	A0	3	

No	DM		RA		Dec.		Mg.	
28	+11	130	0	52	38.7	+11	9.3	8.0	✓
29	+11	132	0	53	27.7	+11	37.0	8.8	✓
30	+11	135	0	53	46.7	+11	8.1	8.0	✓
31	+10	115	0	53	39.7	+10	23.4	8.2	✓
32	+12	126	0	55	30.0	+12	16.1	7.8	✓
33	+12	137	0	57	36.3	+12	3.5	8.7	✓
34	+11	142	0	57	57.1	+11	40.5	8.3	✓
35	+12	134	0	58	34.0	+12	27.2	8.0	✓
36	+12	135	0	58	57.3	+12	9.9	6.2	✓
37	+10	123	0	57	34.3	+10	32.8	8.0	✓
38	+10	128	0	59	29.0	+10	46.9	7.6	✓
39	+11	146	81	0	23.8	+11	16.6	8.8	✓
40	+11	152	1	1	38.8	+11	14.2	8.2	✓
41	+14	76	0	29	16.3	+13	26.6	6.1	✓
42	+14	78	0	29	33.9	+14	20.6	8.3	✓
43	+15	100	0	32	43.6	+15	2.4	7.8	✓
44	+15	101	0	32	54.0	+15	48.5	8.0	✓
45	+14	89	0	32	58.0	+14	27.7	8.2	✓
46	+14	91	0	33	30.3	+14	1.1	8.7	✓
47	+14	92	0	33	40.7	+14	9.7	7.2	✓
48	+14	95	0	34	45.6	+14	16.1	8.0	✓
49	+14	97	0	35	50.7	+14	18.1	8.3	✓
50	+14	103	0	37	23.3	+14	6.0	8.6	✓
51	+14	105	0	37	43.7	+14	22.3	8.2	✓
52	+14	111	0	38	59.9	+14	41.0	5.0	✓
53	+14	117	0	41	36.0	+14	1.2	6.8	✓
54	+14	121	0	42	52.9	+14	41.7	8.3	✓

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No	Class	Dist.	Remark
55	f0	3	
56	f	2	Another star superposed ?
57	g	2	
58	g5	3	
59	a	3	Another star superposed at North.
60	K5	1	
61	g5	1	
62	f2	2	
63	g	1	
64	f	2	
65	g5	2	
66	f2	8	
67	f2	6	
68	f2	5	
69	g5	2	
70	g0	4	
71	g5	2	
72	K0	6	
73	f5	3	
74	g	2	
75	K0	5	
76	f8	4	
77	K0	2	
78	g0	2	
79	f5	10	
80	f8	3	
81	g5	3	

No	Dm		RA		Dec		Mg.	
55	+13	115	0 43	38.5	+13	17.7	8.4	✓
56	+13	116	0 43	46.5	+13	27.4	8.9	✓
57	+13	122	0 45	33.8	+13	41.9	8.9	✓
58	+14	139	0 48	30.0	+14	37.8	8.5	✓
59	+14	141	0 48	47.4	+14	11.9	8.7	✓
60	+13	130	0 49	6.0	+13	59.0	8.7	✓
61	+13	141	0 51	27.3	+13	56.1	8.7	✓
62	+13	143	0 52	7.7	+13	50.1	8.5	✓
63	+13	150	0 54	56.7	+13	28.0	8.6	✓
64	+13	153	0 56	17.6	+13	52.3	9.1	✓
65	+14	161	0 56	28.1	+14	26.9	8.5	✓
66	+14	168	0 57	26.8	+14	7.8	8.5	✓
67	+14	169	0 58	17.7	+14	30.7	7.7	✓
68	+13	165	0 58	57.8	+13	6.6	7.3	✓
69	+14	172	0 0	32.5	+14	21.4	8.5	✓
70	+14.5	64 / 173	1 0 / 1 8	31.4	+14.5	4.7 / 53.6	8.0 / 6.4	✓
71	+15	167	1 0	53.5	+15	1.2	8.4	✓
72	+14	175	1 2	31.4	+14	53.6	6.4	✓
73	+16	62	0 33	45.4	+16	10.8	9.0	✓
74	+16	65	0 34	10.1	+16	9.6	9.0	✓
75	+14.5	106	0 35	18.3	+15	52.3	7.3	✓
76	+16	70	0 35	58.1	+16	34.1	8.6	✓
77	+17	93	0 36	31.7	+17	7.7	8.1	✓
78	+16	74	0 40	15.3	+16	10.3	9.0	✓
79	+16	76	0 41	28.2	+16	9.4	8.7	✓
80	+16	78	0 42	39.5	+16	12.3	8.5	✓
81	+15	126	0 44	13.7	+15	55.3	8.4	✓

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No.	Class	Int.	Remark
82	Q5	5	
83	G0	4	
84	Q5	4	
85	F0	3	
86	G5	4	
87	G0	3	
88	F0	2	
89	G5	5	
90	Q5	2	
91	G5	2	
92	Ma	4	
93	F0	3	
94	Q2	2	
95	F5	2	
96	F0	6	
97	?	2	
98	F2	4	
99	Q3	9	
100	Q2	6	
101	G0	6	
102	Bq	6	
103	K	2	
104	?	6	E
105	K0	4	
106	G0	4	
107	F8	4	
108	Q0	10	Burned out

No	Dm	RA	Dec.	mg.	
82	+16 87	0 47 28.5	+16 7.3	8.4	✓
83	+17 123	0 48 57.9	+17 9.9	8.2	✓
84	+16 90	0 47 4.9	+16 55.8	8.4	✓
85	+15 139	0 49 38.8	+15 34.0	8.5	✓
86	+15 144	0 50 54.3	+15 32.3	8.0	✓
87	+15 148	0 51 56.1	+15 20.9	8.5	✓
88	+16 96	0 51 21.4	+16 7.6	8.9	✓
89	+16 97	0 52 42.4	+16 26.7	8.0	✓
90	+15 149	0 53 14.3	+15 03.5	8.9	✓
91	+15 154	0 55 22.4	+15 22.5	8.5	✓
92	+15 156	0 55 16.0	+15 28.1	8.0	✓
93	+15 159	0 56 41.9	+15 32.3	8.5	✓
94	+15 160	0 58 47.8	+15 01.3	9.0	✓
95	+15 161	0 58 53.1	+15 35.1	9.0	✓
96	+16 116	1 0 12.4	+16 37.5	8.0	✓
97	+16 118	1 0 23.0	+16 24.6	9.0	✓
98	+16 119	1 0 46.2	+16 52.4	8.6	✓
99	+18 101	0 39 35.0	+18 48.0	6.3	✓
100	+18 103	0 39 56.2	+18 6.6	7.5	✓
101	+17 105	0 41 7.0	+17 03.4	7.5	✓
102	+17 106	0 41 10.2	+17 31.7	7.5	✓
103	+18 114	0 45 7.6	+18 9.8	8.5	✓
104	+18 116	0 45 36.7	+18 58.8	7.5	✓
105	+18 117	0 45 48.5	+18 18.2	8.5	✓
106	+17 116	0 45 53.4	+17 35.8	8.0	✓
107	+17 119	0 47 32.4	+17 27.0	8.9	✓
108	+18 122	0 46 55.4	+18 24.1	6.0	/

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I 37421

No.	Class	Int.	Remark
109	F2	4	E
110	A5	3	E
111	F0	3	E
112	G5	3	E
113	F	3	
114	G5	6	
115	G5	7	
116	F2	4	
117	G5	3	
118	F0	4	
119	G5	4	
120	G5	3	
121	M	3	
122	G	4	E Faint very faint
123	G5	4	E
124	G	7	E
12.03 125	A3	3	E
126	1	G5	
127	2	G0	

No	Dm		Ra		Dec.		Mg.	
109	+19	140	0 46	28.4	+19	17.3	8.1	✓
110	+19	145	0 47	43.6	+19	3.8	7.0	✓
111	+19	152	0 47	28.4	+19	5.5	8.5	✓
112	+19	164	0 52	51.2	+19	29.8	8.5	✓
113	+17	130	0 50	15.2	+17	22.5	9.0	✓
114	+17	135	0 52	30.0	+17	20.5	7.5	✓
115	+17	137	0 52	47.3	+17	54.0	7.2	✓
116	+17	138	0 53	7.5	+17	43.2	8.0	✓
117	+17	141	0 53	44.5	+17	43.9	8.0	✓
118	+17	137	0 53	23.1	+17	5.5	8.2	✓
119	+18	137	0 53	41.2	+18	4.6	8.2	✓
120	+18	143	0 57	7.7	+18	6.9	7.5	✓
121	+18	145	0 57	29.6	+18	25.1	7.3	✓
122	+18	149	0 58	46.6	+18	57.7	7.8	✓
123	+19	180	0 59	22.7	+19	22.3	6.5	✓
124	+18	153	21 2	4.4	+18	52.6	5.8	✓
125	+18	152	1 1	32.4	+18	10.3	8.3	✓

Identified by C.H.A. Feb. 16, 1912
Checked by J.C.M. Feb 27, 1912

✓	126	+17°	162	0	58.0	+17	8	8.8	45 on I 38103
✓	127	+16°	113	0	59.2	+16	56	8.8	44 " "

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January 25– 1912

Time 12.17 — I 37467

No.	Class	Dist.	Remark
1	F5	4	Poor focus
2	F0	7	
3	K	5	Poor focus
4	F0	4	
5	G	4	E
6	A	7	E
7	K	4	E
8	A	7	
9	A	4	
10	F8	3	
11	K5	4	
12	G5	6	
13	F8	4	
14	A3	7	
15	F0	10	
16	G0	7	
17	F0	4	
18	A3	5	
19	K0	6	
20	K0	4	
21	F8	3	
22	F8	3	
23	A5	3	
24	A3	5	
25	G5	5	
26	G	5	
27	F5	6	

Ns	Dm.	R.A.	Dec.	My.	
1	+11 167	1 12 4.5	+11	28.5	8.0 ✓
2	+10 168	1 13 41.3	+10	46.6	6.5 ✓
3	+10 171	1 15 15.3	+10	36.5	7.0 ✓
4	+10 172	1 15 43.5	+10	6.1	7.3 ✓
5	+9 158	81 15 7.7	+9	36.5	7.0 ✓
6	+9 167	1 18 21.7	+9	89.8	6.8 ✓
7	+10 185	1 17 21.4	+10	87.2	8.3 ✓
8	+11 187	1 21 40.1	+11	89.4	8.1 ✓
9	+11 194	1 24 21.8	+11	6.1	7.0 ✓
10	+10 199	1 24 32.5	+10	57.4	8.8 ✓
11	+11 198	1 24 52.5	+11	7.5	8.2 ✓
12	+10 197	1 24 3.4	+10	9.5	7.5 ✓
13	+10 203	1 26 4.4	+10	10.0	8.2 ✓
14	+11 201	1 27 11.0	+11	48.6	6.8 ✓
15	+11 205	1 28 25.1	+11	25.3	6.0 ✓
16	+11 207	1 29 57.1	+11	20.9	7.0 ✓
17	+11 210	1 31 29.6	+11	42.0	8.3 ✓
18	+13 250	1 30 43.5	+13	11.4	8.1 ✓
19	+13 255	1 31 30.1	+13	88.6	7.0 ✓
20	+13 261	1 33 19.6	+13	2.6	8.0 ✓
21	+12 215	1 34 42.8	+12	59.9	8.8 ✓
22	+12 218	1 35 81.4	+12	12.5	7.0 ✓
23	+12 226	1 37 44.9	+12	10.1	8.8 ✓
24	+13 266	1 35 55.9	+13	58.4	8.4 ✓
25	+13 192	1 9 52.9	+13	28.9	7.0 ✓
26	+13 204	1 12 58.3	+13	57.0	7.2 ✓
27	+15 198	1 14 10.3	+14	37.4	8.8 ✓

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January 25, 1912 (Cont.)
I 3746.7

No.	Class	Dist.	Remark
28	G	3	
29	G5	3	
30	G	3	
31	K	3	
32	G	6	
33	G5	21	
34	G0	3	
35	G	14	Burned out.
36	M	3	
37	M	4	
38	G5	5	
39	D2	5	
40	F5	4	
41	G5	4	
42	A	10	Burned out.
43	K0	3	
44	K0	4	
45	G5	6	
46	F5	7	
47	F0	8	
48	G	3	
49	K5	4	
Time 12.28	50	4	
54			

Plate very good but more time to be used if necessary

end 129.122

No	Dm.	RA	Dec	Mg.	
28	+13 4/8 210	1 14 15.7	+13 4/8 25.5	8.2	✓
29	+13 204	1 14 32.7	+13 35.9	8.1	✓
30	+13 207	1 16 37.7	+13 9.0	8.8	✓
31	+13 212	1 18 50.6	+13 12.1	8.7	✓
32	+11 172	1 14 18.5	+11 50.3	7.0	✓
33	+13 216	1 20 35.5	+13 43.9	8.8	✓
34	+13 4/8 228	1 23 5.1	+13 4/8 51.5	8.7	✓
35	+13 4/8 231	1 23 47.0	+13 4/8 35.4	4.0	✓
36	+13 4/8 226	1 23 3.1	+13 4/8 16.4	8.0	✓
37	+13 4/8 233	1 24 3.8	+14 50.4	8.2	✓
38	+15 227	1 24 9.1	+15 19.3	8.0	✓
39	+15 231	1 25 57.1	+15 24.8	8.5	✓
40	+14 238	1 27 17.9	+14 32.3	8.5	✓
41	+13 238	1 27 11.5	+13 38.2	7.8	✓
42	+13 240	1 28 1.1	+13 54.9	6.6	✓
43	+12 189	1 25 3.6	+12 28.4	8.0	✓
44	+14 201	1 32 7.5	+14 31.4	9.0	✓ 253 superposed.
45	+15 4/8 139	1 14 38.6	+15 4/8 4.3	7.7	✓
46	+16 141	1 14 58.7	+16 26.6	8.0	✓
47	+17 200	1 16 4.1	+17 3.2	7.2	✓
48	+16 149	1 18 30.5	+16 22.5	9.0	✓
49	+15 208	1 17 34.6	+15 30.0	7.7	✓
50	+15 215	1 20 15.8	+15 14.1	8.5	✓

Identified by C.L.A. Feb. 17, 1912
Checked by J.C.M. Feb. 27, 1912.

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January 25, 1912

Time 12.47

T. 17948

No.	Class	Dist.	Remark
1	K5	5	
2	K	3	E.
3	A	10+	Burned out
4	F0	5	E
5	G	3	
6	A3	10+	Burned out.
7	F2	3	
8	K5	7	
9	F5	3	
10	F5	6	
11	K	2	
12	F8	5	
13	F0	5	
14	K0	6	
15	F5	8	
16	A0	10	
17	K	10+	Burned out
18	K0	5	
19	A0	4	
20	K5	3	
21	K	4	E
22	Ma Mus.		
23	K5	3	
24	K5	2	
25	F0	5	
26	F	8	Difficult
27	K5	4	

1	+17° 276	1	43.9	+17	33.8	7.2 ✓
2	+17° 274	1	43.8	+17	5.0	8.2 ✓
3	+18° 243	1	45.6	+18	35.9	3.5 ✓
4	+19° 296	1	43.2	+19	48.6	7.5 ✓
5	+21° 280	1	45.1	+21	18.0	8.3 ✓
6	+20° 306	1	46.6	+20	5.8	2.5 ✓
7	+20° 314	1	49.9	+20	37.6	8.2 ✓
8	+20° 322	1	51.6	+20	21.0	6.5 ✓
9	+21° 267	1	53.5	+21	54.7	8.3
	~~+20° 326~~	~~1~~	~~54.4~~	~~+20~~	~~39.3~~	~~8.2~~ ✓
10	+21° 279	1	54.1	+21	25.0	2.5
	~~+20° 326~~	~~1~~	~~54.4~~	~~+20~~	~~39.3~~	~~8.2~~ ✓
11	+20° 326	1	54.4	+20	39.3	8.2 ✓
12	+19° 324	1	58.2	+19	54.4	7.7 ✓
13	+19° 329	2	1.7	+19	39.0	7.5 ✓
14	+20° 341	2	3.2	+20	41.5	7.5 ✓
15	+20° 348	2	4.7	+20	31.8	5.5 ✓
16	+22° 279	2	58.4	+22	57.5	6.0 ✓
17	+22° 306	1	59.0	+22	47.2	2.0 ✓
18	+23° 285	1	58.3	+23	38.7	7.3 ✓
19	+24° 302	1	58.1	+24	25.1	8.0 ✓
20	+24° 300	1	57.6	+24	25.9	7.9 ✓
21	+24° 298	1	56.4	+24	44.1	8.0 ✓
22	+24° 305	2	0.1	+24	7.3	7.6 ✓
23	+23° 287	2	0.1	+23	14.6	8.2 ✓
24	+22° 309	2	1.5	+22	32.5	8.3 ✓
25	+23° 293	2	2.8	+23	7.0	8.0 ✓
26	+22° 312	2	3.0	+22	32.4	8.1 ✓
27	+23° 296	2	4.1	+23	17.1	8.1 ✓

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January 25, 1912 (Cont.)

I 16948

No.	Class	Sept.	Remark
28	Ko	6	
29	g5	5	
30	f5	8	
31	g5	5	
32	f0	4	
33	f2	7	
34	ma	2	
35	f8	5	
36	f0	4	
37	f0	3	
38	f0	2	
39	k0	4	
40	ko	10	
41	f8	4	
42	ma	7	
43	k5	1	
44	k5	5	
45	f0	5	
46	ao	5	E.
47	a	7	E.
48	g	2	Diffuse?
49	g5	8	
50	ko	2	
51	g5	3	
52	a	3	Another perpurpose?
53	ma	2	
54	a2	3	

28	+23° 297	2	4.4	+23	29.9	6.7	✓	
29	+23° 313	2	7.1	+23	37.4	6.5	✓	
30	+24° 329	2	7.5	+24	22.6	6.0	✓	
31	+23° 307	2	9.0	+23	6.1	6.8	✓	
32	+23° 308	2	9.0	+23	12.6	7.8	✓	
33	+22° 329	2	10.8	+22	30.0	6.0	✓	
34	+22° 331	2	13.0	+22	45.4	7.8	✓	
35	+22° 334	2	13.9	+22	11.9	6.8	✓	
36	+21° 304	2	6.8	+21	57.6	7.5	✓	
37	+21° 310	2	7.8	+21	45.2	8.5	✓	
38	+21° 317	2	9.6	+21	57.6	8.3	✓	
39	+21° 321	2	10.4	+21	12.4	8.0	✓	
40	+19° 340	2	10.1	+19	13.8	6.0	✓	
41	+19° 342	2	11.1	+19	0.8	7.5	✓	
42	+18° 277	2	2.6	+18	49.0	6.0	✓	
43	+19° 332	2	4.8	+19	7.4	8.0	✓	
44	+18° 283	2	5.8	+18	56.1	7.2	✓	
45	+17° 339	2	9.7	+17	46.6	7.3	✓	
46	+16° 283	2	15.0	+16	56.2	7.3	✓	
47	+16° 281	2	14.6	+16	12.0	7.0	✓	
48	+19° 305	1	48.3	+19	1.2	8.3	✓	
49	+17° 289	1	49.4	+17°	6.4	5.5	✓	
50	+17° 291	1	50.4	+17	34.4	8.7	✓	
51	+17° 292	1	51.0	+17	38.9	7.7	✓	
52	+18° 281	1	54.4	+18	41.6	8.5	✓	
53	+17° 302	1	53.6	+17	14.7	8.0	✓	
54	+17° 305	1	55.5	+17	37.6	8.9	✓	

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January 25, 1912 (Cont)

I 16h 48m

No.	Class	Dist.	Remark
55	K-	5	
56	a	2	
57	f-	2	
58	a3	6	
Time 12.54	59 f-	6X	
	60	2	f50

55	+17°	30.7	1	58.8	+17	32.9 7.0 ✓
56	+17°	31.2	1	58.5	+17	46.3 7.0 ✓
	+16°	22.7	1	57.8	+16	56.9 8.5
57	+17	31.5	1	57.8	+17	20.2 7.3 ✓
58	+17°	31.5	1	59.8	+17	20.2 7.3 ✓
59	+16°	24.7	2	1.4	+16	32.6 6.8 ✓

Identified Feb. 26 1912 J.D.W.

Checked by J. G. M. Feb 27, 1912

Made Mde

60 +20 29.6 1 43.0 +20 24 F.5 420n √3FFF3

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January 29, 1912

Time 10.19

I 3747 6

No.	Class	Int.	Remarks
1	K5	4	
2	G	2	
3	F	2	Diffuse
4	G	2	"
5	K5	3	
6	F0	6	
7	K5	3	
8	K0	8	
9	B9	6	e
10	F0	8	
11	F8	7	
12	A3	4	
13	K0	3	
14	K5	3	
15	F2	4	
16	F	2	
17	A3	4	
18	F0	6	
19	F8	4	~~Class~~ Neb. Superposition on 20
20	G	3	Difficult owing to superposition on 19
21	K5	3	
22	K5	2	
23	K0	2	
24	F0	5	
25	K0	8	Begin setting 2 + precede the clock R.A. = Class 78
26	B9	4	
27	A5	4	

No	Dm	RA	Dec	Mg	
1	+5°	4 20	2 48 20.0	+5° 30.5	7.5 ✓
2	+7	45.3	2 49 22.2	+7 4.0	8.3 ✓
3	+7	45.5	2 49 45.5	+7 11.2	8.5 ✓
4	+6	46.1	2 50 7.2	+6 56.4	8.7 ✓
5	+7	45.9	2 50 17.0	+7 10.1	8.3 ✓
6	+6	46.0	2 50 44.0	+6 4.9	7.8 ✓
7	+5	43.5	2 50 52.6	+5 24.5	8.2 ✓
8	+4	48.5	2 50 55.2	+4 46.4	7.0 ✓
9	+4	48.6	2 50 2.6	+4 37.2	8.1 ✓
10	+5	47.3	2 50 49.0	+5 39.7	7.2 ✓
11	+5	44.4	2 51 5.8	+5 33.5	8.0 ✓
12	+6	47.0	2 51 16.3	+6 42.9	8.3 ✓
13	+5	44.7	2 57 57.6	+5 33.2	7.8 ✓
14	+5	45.6	2 58 55.2	+5 4.0	8.3 ✓
15	+5	45.1	2 59 11.9	+5 5.6	8.5 ✓
16	+6	48.2	2 59 58.7	+6 40.9	8.5 ✓
17	+6	48.3	3 0 14.7	+6 41.2	8.0 ✓
18	+7	47.7	3 0 45.7	+7 5.2	7.7 ✓
19	+6	48.6	3 1 28.0	+6 54.5	8.3 ✓
20	+6	48.7	3 1 29.4	+6 53.0	8.5 ✓
21	+6	48.5	3 0 43.5	+6 9.7	7.9 ✓
22	+6	48.8	3 2 13.0	+6 8.8	8.3 ✓
23	+6	49.2	3 3 26.3	+6 17.9	8.7 ✓
24	+6	49.3	3 3 27.3	+6 37.4	8.3 ✓
25	+6	49.6	3 4 40.8	+6 6.7	6.4 ✓
26	+7	48.1	3 3 57.4	+7 34.6	8.5 ✓
27	+8	47.6	3 3 19.7	+8 10.1	8.0 ✓

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January 29, 1912 (cont)
I 3747 6

No.	Class	Dist.	Remarks
28	G	3	
29	G5	3	
30	G5	1	
31	K0	4	
32	G0	5	E
33	G	3	E
34	Q3	6	
35	B9	5	E
36	K0	2	
37	~~K0~~	~~3~~	(Clarifies on I 3639 4 Short diff)
37a	K5	2	
38	K2	2	
39	K8	2	Difficult
40	K0	3	
41	G	2	
42	G	3	
43	K5	3	
44	K5	5	
45	A0	4	
46	G5	6	
47	G5	2	
48	K2	3	
49	G	2	E
June 10.30 50	G	3	E
51	K2	2	

No	DM		Ra		Dec		Mag	
25	+8°	472	3h 3m	54.6	+8°	24.6	8.3	✓
29	+8°	474	3h 4m	49.4	+8°	3.4	8.0	✓
30	+8°	480	3h 6m	34.6	+8°	59.5	8.3	✓
31	+8°	482	3h 6m	54.6	+8°	26.7	7.8	✓
32	+7°	493	3h 9m	40.5	+7°	7.5	7.5	✓
33	+7°	494	3h 9m	47.8	+7°	9.4	8.5	✓
34	+6°	508	3h 9m	27.0	+6°	16.8	7.5	✓
35	+8°	495	3h 12m	8.9	+8°	11.3	7.7	✓
36	+7°	466	2h 55m	2.1	+7°	53.9	8.3	✓
37	~~+8°~~	~~461~~	2h 56m	~~54.1~~	+8°	~~26.3~~	8.2	✓
37a	+8°	462	2h 56m	56.0	+8°	31.8	8.2	
38	+9°	387	2h 0m-2	07.6	+8°	40.7	7.8	✓
39	+10°	402	2h 5m-2	56.8	+10°	16.5	8.5	✓
40	+10°	404	2h 5m-4	53.0	+10°	24.7	7.8	✓
41	+10°	411	2h 5m-6	27.7	+10°	34.3	8.5	✓
42	+10°	412	2h 5m-7	12.5	+10°	13.5	8.0	✓
43	+11°	434	2h 5m-8	24.0	+11°	6.0	7.5	✓
44	+10°	418	3h 0m	34.1	+10°	14.2	7.8	✓
45	+9°	397	3h 0m	1.1	+9°	22.3	7.5	✓
46	+7°	478	3h 0m	53.8	+7°	54.2	6.6	✓
47	+9°	407	3h 2m	29.6	+9°	7.9	8.3	✓
48	+9°	408	3h 2m	57.1	+9°	27.5	7.0	✓
49	+9°	415	3h 6m	8.6	+9°	53.8	8.5	✓
50	+11°	456	3h 8m	7.0	+11°	5.0	8.0	✓
51	+9°	382	2h 50m	6	+9°	38	7.7	✓

Identified by C.H.A. Feb. 19, 1912
Checked by J.C.M. Feb. 27, 1912

Identification from I 3726

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January 29, 1912

I 37402

Time 10.35

	No.	Class	Dist.	Remark.
	1	Ma	3	E
	2	G	3	E
	3	G5	6	E
	4	F5	2	E
	5	G5	2	E
	6	A2	4	
	7	G5	6	
	8	F8	4	
	9	F8	3	
	10	K0	5	
	11	G	1	
	12	G5	2	
10.38	13	F0	8	
10 40	14	Ma?	1	very faint. Omit unless confirmed
	15	K2	2	
	16	K5	3	
	17	G5	2	
	18	A3	6	
	19	G	2	
	20	G5	2	
	21	K	2	
	22	F2	8	
	23	G5	3	
	24	G5	2	
	25	A0	5	Metallic lines well seen for this class.
	26	A3	2	
	27	A0	6	

1	−14°	37.1	1	52.5	−14	34.3	7.0	✓
2	−14°	37.3	1	53.0	−14	15.1	7.8	✓
3	−10°	40.3	1	50.1	−10	56.0	6.7	✓
4	−12°	36.4	1	50.8	−12	40.1	8.6	✓
5	−12°	36.5	1	51.4	−12	44.8	8.2	✓
6	−12°	36.8	1	52.2	−12	36.1	8.1	✓
7	−12°	36.7	1	51.7	−12	0.2	6.3	✓
8	−11°	38.6	1	54.0	−11	44.9	7.5	✓
9	−12°	37.3	1	54.8	−12	31.2	7.8	✓
10	−12°	38.2	1	57.1	−12	33.0	6.4	✓
11	−12°	38.1	1	57.1	−12	59.9	8.5	✓
12	−11°	40.0	1	57.9	−11	32.8	8.0	✓
13	−10°	43.0	1	59.1	−10	57.9	7.0	✓
14	−10°	42.9	1	59.0	−10	54.3	8.8	✓
15	−10°	43.1	1	59.3	−10	41.2	8.5	✓
16	−11°	40.4	2	0.2	−11	14.4	9.0	✓
17	−10°	43.5	2	0.8	−10	33.2	8.8	✓
18	−10°	43.7	2	1.2	−10	44.0	7.0	✓
19	−10°	43.8	2	1.6	−10	46.6	9.1	✓
20	−10°	44.0	2	2.4	−10	33.5	8.5	✓
21	−11°	41.6	2	2.6	−11	6.4	8.4	✓
22	−10°	44.7	2	4.3	−10	44.1	6.5	✓
23	−11°	39.3	2	0.1	−11	22.6	8.2	✓
24	−12°	39.5	2	1.1	−12	34.4	8.3	✓
25	−13°	40.0	2	3.7	−13	36.7	7.0	✓
26	−13°	40.5	2	4.8	−13	35.2	8.3	✓
27	−12°	41.8	2	8.2	−12	43.5	7.5	✓

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January 29, 1912 (Cont)

I 3747 02

No.	Class	Dist.	Remark
28	Ko	3	
29	A2	4	
30	G	3	
31	G	2	
32	Ko	5	
33	Ao	8	
34	Go	5	
35	K	2	
36	G5	4	
37	F5	4	
38	Fo	10	
39	F5	3	
40	Mb	2	
41	A	4	E.
42	K	2	E.
43	Fo	5	E.
44	A	4	E.
45	K	3	E.
46	F8	4	E.
47	A	7	E.
48	Fo	4	E.
49	F5	5	
50	Ao	10	
51	F2	4	E.
52	G5	5	
53	F5	4	
54	F2	4	

28	-13°	489	2	9.8	-13	7.0	8.0	✓
29	-10°	453	2	6.4	-10	25.6	8.3	✓
30	-10°	455	2	6.6	-10	45.1	8.5	✓
31	-9°	427	2	6.4	-9	30.2	8.4	✓
32	-9°	429	2	6.8	-9	44.4	6.7	✓
33	-10°	460	2	8.3	-10	8.5	7.0	✓
34	-10°	462	2	9.1	-10	29.5	7.5	✓
35	-11°	440	2	12.4	-11	17.2	8.2	✓
36	-12°	436	2	13.7	-12	16.5	7.5	✓
37	-12°	441	2	14.3	-12	1.4	8.1	✓
38	-11°	448	2	15.0	-11	26.6	5.5	✓
39	-12°	442	2	14.7	-12	35.1	8.5	✓
40	-14°	423	2	11.2	-14	48.3	7.2	✓
41	-15°	401	2	13.2	-15	4.5	7.3	✓
42	-15°	402	2	13.4	-15	17.5	8.0	✓
43	-14°	434	2	14.9	-14	56.9	7.0	✓
44	-15°	416	2	15.8	-15	33.9	7.7	✓
45	-15°	377	2	2.8	-15	34.3	7.3	✓
46	-15°	381	2	4.2	-15	22.4	7.2	✓
47	-15°	380	2	4.1	-15	46.1	6.8	✓
48	-15°	387	2	6.4	-15	35.5	7.7	✓
49	-13°	440	2	17.5	-13	57.0	7.0	✓
50	-12°	451	2	18.9	-12	56.7	4.7	✓
51	-11°	468	2	21.7	-11	59.9	7.0	✓
52	-10°	487	2	17.9	-10	51.3	8.1	✓
53	-11°	459	2	18.8	-11	17.3	8.0	✓
54	-10°	488	2	18.1	-10	15.8	8.3	✓

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January 29, 1912. (cont.)

I 37 476 62

No.	Class	Dist.	Remark
55	78	4	
56	A0	4	
57	K5	3	
58	F5	3	
59	A0	4	
60	78	2	E
61	K5	4	
62	K	1	
63	A2	5	
64	Ma	5	
65	K0	2	
66	A3	4	
67	Mb	8	
68	K5	5	
69	K0	2	
70	K5	2	
71	K	2	
72	78	2	
73	K5	2	
74	K5	5	
75	K5	2	
76	K5	1	
77	K5	6	
78	K0	3	
79	K5	2	
80	K5	2	
81	K5	2	

55	−10°	491	2	18.8	−10	33.8	8.3 ✓
56	−9°	459	2	18.7	−9	58.2	8.6 ✓
57	−9°	461	2	18.8	−9	54.4	8.0 ✓
58	−10°	495	2	20.6	−10	27.2	8.3 ✓
59	−10°	497	2	21.5	−10	22.5	8.5 ✓
60	−10°	498	2	21.6	−10	14.9	8.8 ✓
61	−8°	346	1	50.0	−8	31.6	7.5 ✓
62	−8°	349	1	50.3	−8	14.4	8.2 ✓
63	−7°	330	1	50.3	−7	31.9	7.7 ✓
64	−7°	334	1	51.2	−7	46.8	7.0 ✓
65	−8°	354	1	51.3	−8	19.5	8.2 ✓
66	−9°	373	1	52.0	−9	4.6	8.5 ✓
67	−9°	380	1	53.3	−9	13.7	5.8 ✓
68	−9°	382	1	53.6	−9	10.6	7.3 ✓
69	−10°	412	1	52.0	−10	53.3	8.5 ✓
70	−10°	413	1	52.2	−10	17.0	8.1 ✓
71	−9°	372	1	51.9	−9	41.5	8.5 ✓
72	−9°	378	1	52.7	−9	50.7	8.9 ✓
73	−10°	421	1	54.7	−10	27.4	8.8 ✓
74	−10°	424	1	56.4	−10	9.6	7.5 ✓
75	−9°	399	2	58.3	−9	30.4	8.7 ✓
76	−9°	401	1	59.1	−9	53.5	8.5 ✓
77	−9°	403	1	59.9	−9	17.9	6.7 ✓
78	−9°	414	2	3.1	−9	25.8	8.0 ✓
79	−9°	419	2	4.6	−9	36.9	8.7 ✓
80	−8°	406	2	6.7	−8	38.3	8.5 ✓
81	−8°	411	2	7.8	−8	14.7	8.3 ✓

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January 29, 1912 (cont)

I 3747 02

No.	Class	Int.	Remark
82	75	2	
83	72	2	
84	A	5	a portion of photo 2 Hz superposed on 85
85	45	8	
86	4	3	
87	75	4	
88	45	3	
89	45	3	
90	45	2	
91	70	4	
92	4	3	
93	4	2	
94	75	4	
95	70	8	
96	4	2	
97	45	5	
98	70	3	
99	Mar	2	
100	45	7	
101	70	3	
102	72	6	
103	4	2	Difficult
104	4	3	
105	45	4	
106	40	4	

Time
11.05

82	-7°	389	2	8.2	-7	47.8	8.5 ✓
83	-7°	387	2	7.7	-7	19.7	8.2 ✓
84	-7°	392	2	9.7	-7	15.2	7.5 ✓
85	-7°	393	2	9.8	-7	55.2	8.5 ✓
86	-7°	397	2	11.2	-7	17.0	8.5 ✓
87	-8°	422	2	11.7	-8	7.7	7.5 ✓
88	-9°	440	2	11.8	-9	1.7	7.5 ✓
89	-8°	428	2	14.5	-8	12.3	7.3 ✓
90	-10°	479	2	14.7	-10	3.3	8.5 ✓
91	-9°	455	2	17.1	-9	16.3	8.3 ✓
92	-9°	456	2	17.7	-9	39.9	8.4 ✓
93	-8°	435	2	16.1	-8	28.3	8.2 ✓
94	-8°	440	2	17.0	-8	3.6	7.9 ✓
95	-6°	470	2	16.1	-6	50.6	7.0 ✓
96	-7°	419	2	17.0	-7	26.7	8.7 ✓
97	-7°	432	2	20.4	-7	34.6	6.8 ✓
98	-7°	361	2	0.0	-7	54.6	8.6 ✓
99	-7°	365	2	1.2	-7	9.2	8.5 ✓
100	-7°	366	2	1.3	-7	21.8	6.8 ✓
101	-6°	421	2	4.5	-6	49.0	7.8 ✓
102	-5°	411	2	7.1	-5	56.8	7.7 ✓
103	-7°	381	2	6.7	-7	3.3	8.5 ✓
104	-6°	434	2	7.6	-6	47.0	8.5 ✓
105	-6°	453	2	12.7	-6	59.1	7.5 ✓
106	-7°	407	2	13.3	-7	2.5	8.0 ✓

Identified March 28, 1912. J. C. M.
Checked April 6, 1912 by A.M.C.

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30
January ~~30~~ 1912 ~~Cont~~
B 1222 38 Int disp.

Time 12.18

No.	Class	Int.	Remark
1	O	3	E
2	Ko	5	E
3	K5	4	
4	K5	3	
5	Ko	3	
6	K5	2	
7	B8	10	
8	Ko	2	
9	O	4	
10	K2	5	
11	K5	7	
12	O	3	
13	B8	2	
14	O3	6	
15	to	4	
16	K5	8	Maybe track of a very bright star.
17	to	5	
18	to	4	
19	to	4	
20	Ko	3	
21	K	2	
22	K	1	
23	Ko	10	
24	Ko	5	
25	to	5	
26	Ko	4	
27	to	1	

1858	002	1	-19°	92	0	31.5	-19	16.7	8.8	^ √
		2	-19°	93	0	31.6	-19	40.0	8.0	^ √
		3	-20°	97	0	30.1	-20	21.7	7.8	^ √
		4	-20°	109	0	31.4	-20	32.1	8.7	^ √
		5	-20°	112	0	32.0	-20	53.1	8.5	^ √
		6	-20°	113	0	32.0	-20	39.6	9.0	^ √
		7	-21°	84	0	31.3	-21	5.6	6.2	^ √
		8	-21°	81	0	31.0	-21	20.3	8.7	^ √
		9	-20°	118	0	34.1	-20	39.9	8.9	^ √
		10	-21°	91	0	34.3	-21	5.5	7.5	^ √
		11	-20°	123	0	35.5	-20	57.3	7.0	^ √
		12	-21°	100	0	36.7	-21	2.8	8.8	^ √
		13	-21°	99	0	36.7	-21	11.7	9.0	^ √
		14	-21°	104	0	37.7	-21	7.5	8.5	^ √
		15	-19°	104	0	35.5	-19	52.0	8.5	^ √
			Trail of							
		16	-18°	115	0	36.3	-18	47.0	2.	^ √
		17	-17°	134	0	38.7	-17	26.4	7.8	√
			~~-17°~~	~~132~~	0	~~38.4~~	-17	12.9	6.5	
		18	-20°	128	0	37.8	-20	5.5	8.3	^ √
		19	-20°	131	0	39.5	-20	44.9	8.7	^ √
		20	-20°	133	0	40.1	-20	46.4	8.3	^ √
			-19°	118	0	39.8	-19	41.9	8.7	
		21	~~-21°~~	~~111~~	0	~~40.6~~	~~-21~~	~~39.6~~	~~8.9~~	√
		22	-19°	116	0	39.6	-18	5.7	9.0	^ √
		23	-18°	127	0	40.5	-18	51.1	6.5	^ √
		24	-18°	130	0	41.5	-18	20.4	7.3	^ √
		25	-19°	126	0	41.5	-19	19.9	8.3	^ √
		26	-19°	133	0	43.5	-19	17.8	8.6	^ √
		27	-19°	137	0	44.3	-19	18.0	8.8	^ √

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January 30, 1912 (cont)

B12238

No.	Class	Int.	Remarks
28	Ko	5	
29	Q3	8	
30	Ko	6	
31	72	5	
32	Ko	4	
33	Ko	3	
34	Ko	6	
35	Ko	3	
36	a	8	
37	a	10	
38	Ko	6	
39	b5	6	
40	b0	5	
41	b0	4	
42	7	4	
43	Ko	5	
44	Ko	3	
45	70	6	
46	K	1	
47	7	3	2
48	7	5	2
49	a	4	
50	b	3	
51	a	3	
52	a	6	
53	a	3	
54	b0	4	

1855 Jan.	28	-19°	140	0	45.6	-19	22.2	8.5	^	V
"	29	-18°	143	0	45.9	-18	26.5	7.1	^	V
"	30	-17°	159	0	48.0	-17	45.3	8.0	^	✓
"	31	-18°	150	0	47.9	-18	13.2	8.4	^	✓
"	32	-18°	152	0	48.6	-18	5.4	8.2	^	✓
"	33	-18°	147	0	46.9	-18	49.0	8.9	^	✓
"	34	-19°	143	0	48.6	-19	18.9	8.0	^	✓
"	35	-19°	144	0	48.7	-19	32.7	8.3	^	✓
"	36	-20°	167	0	49.3	-20	13.9	7.8	^	✓
"	37	-19°	147	0	50.5	-19	46.7	7.2	^	✓
"	38	-19°	174	0	51.6	-19	25.1	7.0	^	✓
"	39	-19°	175	0	51.9	-19	6.8	7.8	^	✓
"	40	-20°	179	0	53.3	-20	10.2	8.0	^	✓
"	41	-20°	183	0	54.6	-20	11.8	8.0	^	✓
"	42	-20°	186	0	55.0	-20	26.7	8.2	^	✓
"	43	-20°	181	0	53.8	-20	52.5	7.2	^	✓
"	44	-19°	155	0	54.0	-19	37.3	8.0	^	✓
"	45	-18°	163	0	53.5	-18	54.0	7.7	^	✓
"	46	-18°	162	0	52.8	-18	51.1	8.3	^	✓
"	47	-18°	160	0	51.7	-18	16.4	8.6	^	✓
"	48	-17°	175	0	53.3	-17	51.3	8.4	^	✓
"	49	-19°	168	0	56.9	-19	20.9	8.5	^	✓
"	50	-19°	171	0	57.6	-19	5.8	8.5	^	✓
"	51	-19°	178	0	59.0	-19	36.6	8.7	^	✓
"	52	-20°	191	0	58.1	-20	37.8	8.2	^	✓
"	53	-20°	194	0	58.9	-20	21.7	8.5	^	✓
"	54	-20°	196	0	59.2	-20	50.0	8.5	^	✓

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January 30, 1912 (cont)
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No.	Class	Int.	Remark
55	F8	2	
56	G5	2	
57	G5	5	
58	K	3	
59	K2	7	
60	F5	6	
61	F0	3	
62	G0	2	
63	K2	3	
64	K0	3	
65	K0	4	
66	A	10+	Burned out
67	A5?	4	Focus poor.
68	A3	3	
69	G	2	
70	F5	3	
71	G5	10	Burned out
72	A	10	"
73	G5	7	
74	F	2	
75	K0	4	
76	G0	8	
77	K2	4	
78	F5	8	
79	G0	5	
80	K2	4	
81	K0	5	

1855 pos	55	-20°	198	0	59.4	-20	50.0	9.0	^	√	
" "	56	-19°	180	1	0.3	-19	55.2	8.9	^	√	
" "	57	-20°	203	1	0.6	-20	4.9	8.0	^	√	
" "	58	-19°	186	1	1.3	-19	56.4	8.3	^	√	
" "	59	-19°	195	1	3.9	-19	34.3	7.0	^	√	
" "	60	-21°	188	1	5.5	-21	13.4	7.3	^	√	
" "	61	-21°	188	1	5.6 (6.8 91)	-21	13.4 (17.1)	7.3 (8.1)	^	√	
" "	62	-21°	85	0	31.5	-21	50.1	8.6	^	√	
" "	63	-22°	118	0	35.6	-22	27.0	8.0	^	√	
" "	64	-22°	120	0	35.9	-22	30.1	8.3	^	√	
" "	65	-22°	124	0	37.1	-22	51.8	8.0	^	√	
" "	66	-22°	127	0	37.6	-22	48.0	8.5	^	√	
" "	67	-22°	128	0	37.7	-22	11.9 (48.0)	8.7	^	√	
" "	68	-21°	106	0	38.4	-21	42.1	8.7	^	√	
" "	69	-21°	107	0	39.0	-21	27.3	8.5	^	√	
1875 pos.	70	-23°	298	0	40.0	-22	55.9	8.4	^	√	
" "	71	-23°	293	0	40.0	-23	12.4	5.8	^	√	
1855 pos.	72	-22°	134	0	40.8	-22	30.5	6.2	^	√	
" "	73	-21°	119	0	41.9	-21	56.1	7.0	^	√	
" "	74	-22°	138	0	42.1	-22	11.4	8.2	^	√	
" "	75	-22°	139	0	42.8	-22	53.6	7.8	^	√	
1875 pos.	76	-23°	334	0	46.1	-23	18.0	7.1	^	√	
1855 pos.	77	-22°	147	0	45.5	-22	13.1	7.8	^	√	
" "	78	-21°	129	0	46.1	-21	53.8	7.3	^	√	
" "	79	-21°	130	0	45.3	-21	46.7	8.0	^	√	
" "	80	-20°	149	0	45.3	-20	41.0	7.8	^	√	
" "	81	-21°	136	0	48.9	-21	29.6	7.8	^	√	

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January 30, 1912 (Cont.)

B12238

No.	Class	Int.	Remark
82	fo	7	
83	f5	4	
84	K	2	
85	K	2	
86	g5	3	
87	Ko	5	
88	Ko	5	
89	g5	7	
90	f5	9	
91	G5	5	
92	f5	6	
93	g5	7	
94	f8	6	
95	g5	10	
96	G0	10	
97	f8	5	
98	Ko	6	
99	f5	7	
100	g0	10	
101	g5	4	
102	g	10	Burnham
103	G	3	
104	Ko	6	
105	G	5	C
106	g5	2	
107	Ko	7	
108	g	3	

1855	pop.	82	−21°	141	0	50.8	−21	27.1	7.2
		83	−21°	142	0	51.0	−21	57.9	8.2
		84	−22°	152	0	46.8	−22	4.8	8.5
		85	−22°	155	0	47.5	−22	15.4	8.5
		86	−22°	150	0	46.4	−22	59.7	8.5
		87	−22°	161	0	48.2	−22	43.2	8.0
		88	−22°	182	0	55.1	−22	23.3	8.0
		89	−22°	183	0	55.3	−22	23.3	8.0
		90	−21°	165	0	57.7	−21	30.7	7.6
		91	−22°	193	0	58.8	−22	20.3	8.2
1875	pop.	92	−22°	391	1	0.8	−22	56.9	8.0
		93	−23°	403	1	0.7	−23	31.0	7.7
		94	−24°	480	0	59.7	−24	15.8	8.4
		95	−24°	484	1	0.1	−24	39.4	6.3
		96	−24°	496	1	1.1	−24	39.4	6.4
		97	−24°	503	1	2.4	−24	54.4	8.0
		98	−25°	438	2	1.1	−25	31.0	7.3
		99	−24°	244	0	32.4	−24	17.2	7.2
		100	−24°	263	0	34.3	−24	29.0	6.3
		101	−25°	221	0	30.6	−25	11.0	8.2
		102	−25°	225	0	30.9	−25	27.4	5.8
		103	−25°	233	0	32.2	−25	21.2	8.6
		104	−25°	234	0	32.6	−25	47.8	6.5
		105	−26°	196	0	32.7	−26	17.1	8.3
		106	−25°	245	0	33.7	−25	42.8	8.5
		107	−25°	264	0	35.4	−25	52.8	6.8
		108	−25°	265	0	35.5	−25	26.9	8.1

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January 30, 1912 (cont.)

B122138

No.	Class	Int.	Remarks
109	Go	4	
110	G5	4	
111	A3	8	
112	G5	5	
113	G	10	
114	Ko	4	
115	A	2	
116	Go	6	
117	G	2	Partly superposed on 116
118	A	10	Burned out
119	Go	4	
120	G5	4	
121	G5	10	
122	Go	3	
123	Ko	3	
124	Go	4	
125	A	8	
126	K2	3	
127	Ko	5	
128	F2	5	
129	K	2	
130	F5	4	
131	G5	4	
132	F0	5	
133	G	2	
134	A	5	
135	K	2	

1875	P.D.	109	−25°	280	0	37.8	−25	33.5	8.3	
"	"	110	−24°	305	0	39.4	−24	7.8	8.4	
"	"	111	−24°	321	0	40.8	−24	54.1	7.6	
"	"	112	−24°	339	0	42.6	−24	49.0	8.3	
"	"	113	−24°	345	0	43.1	−24	48.6	6.1	
"	"	114	−24°	351	0	43.8	−24	48.1	8.0	
"	"	115	−23°	311	0	42.6	−23	45.2	8.7	
"	"	116	−23°	315	0	43.2	−23	54.6	7.3	
"	"	117	−24°	346	0	43.2	−24	0.2	8.2	
"	"	118	−24°	347	0	43.4	−24	2.8	6.5	
"	"	119	−24°	358	0	44.6	−24	21.2	8.3	
"	"	120	−24°	365	0	45.4	−24	15.6	7.8	
"	"	121	−24°	376	0	46.5	−24	40.7	5.7	
"	"	122	−24°	378	0	47.4	−24	41.8	8.5	
"	"	123	−24°	389	0	48.6	−24	35.9	8.6	
"	"	124	−24°	408	0	50.8	−24	20.3	8.6	
"	"	125	−23°	364	0	51.3	−23	6.0	8.2	
"	"	126	−23°	367	0	51.9	−23	16.5	7.8	
"	"	127	−24°	448	0	55.7	−24	3.2	8.1	
"	"	128	−23°	383	0	57.1	−23	57.2	8.3	
"	"	129	−23°	390	0	58.6	−23	10.0	8.4	
"	"	130	−25°	389	0	53.8	−25	6.7	8.3	
"	"	131	−25°	398	0	53.8	−25	13.8	8.0	
"	"	132	−24°	457	0	54.8	−24	56.7	9.0	
"	"	133	−25°	397	0	54.8	−25	6.7	9.0	
"	"	134	−25°	399	0	55.0	−25	25.5	8.3	
"	"	135	−24°	458	0	56.9	−24	32.8	8.8	

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January 30, 1912 (Cont.)
B12238

No.	Class	Dist.	Remark
136	75	5	
137	K	2	
138	G5	3	
139	7	4	
140	G5	2	
141	G0	48	
142	G5	3	
143	K0	2	
144	75	10	
145	75	2	
146	70	5	
147	G5	7	
148	Ma	3	
149	A0	10	
150	K0	4	
151	72	4	
152	G5	6	
153	K0	3	
154	G5	4	
155	70	4	
156	K	2	
157	K0	2	
158	K	1	
159	K0	5	
160	A	4	
June 12.55 161	G5	2	

1905 pos.	136	-24°	471	0	58.2	-24	56.7	8.7	∧	∫
"	137	-24°	474	0	58.8	-24	31.8	8.5	∧	∫
"	138	-26°	245	0	39.9	-26	3.9	8.0	∧	∫
"	139	-26°	247	0	40.1	-26	13.2	8.0	∧	∫
"	140	-26°	252	0	41.2	-26	3.5	8.4	∧	∫
"	141	-26°	284	0	41.4	-26	4.5	8.3	∧	∫
"	142	-25°	306	0	41.9	-25	45.4	8.1	∧	∫
"	143	-25°	309	0	42.8	-25	15.2	8.1	∧	∫
"	144	-25°	338	0	47.1	-25	27.4	6.6	∧	∫
"	145	-25°	336	0	47.0	-25	37.6	9.0	∧	∫
"	146	-25°	344	0	47.9	-25	42.9	8.5	∧	∫ TWO SETS OF SQUARES
"	147	-25°	355	0	49.3	-25	20.1	7.2	∧	∪
"	148	-26°	300	0	50.2	-26	13.5	7.7	∧	∫
"	149	-26°	303	0	50.7	-26	2.6	7.1	∧	∫
"	150	-26°	314	0	52.1	-26	33.4	7.0	∧	∫
"	151	-26°	321	0	53.8	-26	32.4	7.9	∧	∫
"	152	-26°	326	0	54.5	-26	25.3	7.6	∧	∫
"	153	-26°	327	0	54.6	-26	57.8	8.2	∧	∫
"	154	-26°	343	0	57.2	-26	51.4	7.7	∧	∫
"	155	-26°	357	0	59.8	-26	9.2	8.1	∧	∫
"	156	-25°	431	1	0.6	-25	47.7	8.4	∧	∫
"	157	-26°	369	2′	2.7	-26	31.8	8.1	∧	∫
"	158	-26°	372	2′	3.0	-26	11.9	8.5	∧	∫
"	159	-26°	377	1	4.1	-26	51.3	7.4	∧	∫
"	160	-27°	355	0	59.9	-27	24.1	8.0	∧	∫
"	161	-26°	357	0	59.8	-26	58.3	8.0	∧	∫

Identified by J. C. M. March 20, 1912

Checked May 22 1912

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January 30, 1912

I 37470

Time 10.40

No.	Class	Int.	Remark
1	A	10+	E Burnt out.
2	Y5	5	
3	B9	10	
4	K0	4	
5	A2	8	
6	G	2	Difficult
7	B8	9	Burned out
8	A2	4	
9	K0	3	
10	K2	2	
11	A3	5	
12	Y5	4	
13	A2	6	
14	A5	4	
15	K5	2	
16	Y5	3	
17	Y5	5	
18	A2	5	
19	Y5	6	
20	A0	2	
21	Y5	4	
22	Y5	3	
23	F5	5	
24	B9	7	
25	F	2	
26	K0	2	
27	F0	4	

1	+9°	439	3	19	18.7	+9	13.7	4.0	✓
2	+10°	444	3	20	41.3	+10	53.5	7.0	✓
3	+10°	452	3	22	29.1	+10	50.3	5.3	✓
4	+9°	447	3	22	33.0	+9	57.3	7.5	✓
5	+11°	487	3	24	15.9	+11	3.1	7.3	✓
6	+10°	454	3	24	32.1	+10	14.7	8.8	✓
7	+9°	528	3	24	46.3	+9	52.9	6.2	✓
8	+9°	532	3	26	55.2	+9	40.4	7.8	✓
9	+8°	537	3	28	23.2	+8	24.5	8.0	✓
10	+9°	463	3	30	3.1	+9	27.5	7.8	✓
11	+8°	542	3	31	18.2	+8	40.8	7.5	✓
12	+9°	472	3	33	39.7	+9	37.2	6.8	✓
13	+8°	553	3	34	49.5	+8	11.2	7.2	✓
14	+7°	537	3	34	59.2	+7	25.9	8.3	✓
15	+7°	540	3	37	10.5	+7	50.9	8.5	✓
16	+8°	565	3	38	33.7	+8	13.1	8.5	✓
17	+8°	567	3	39	14.2	+8	30.4	7.3	✓
18	+9°	486	3	39	4.8	+9	4.7	7.7	✓
19	+9°	494	3	40	38.6	+9	11.0	6.5	✓
20	+8°	570	3	40	30.2	+8	20.0	8.3	✓
21	+8°	571	3	40	32.5	+8	7.3	8.4	✓
22	+8°	573	3	41	41.2	+8	2.2	8.2	✓
23	+8°	581	3	42	56.9	+8	0.6	8.5	✓
24	+8°	574	3	41	55.2	+8	58.4	6.8	✓
25	+8°	575	3	42	8.6	+8	50.4	8.6	✓
26	+9°	497	3	41	54.9	+9	26.1	7.8	✓
27	+9°	499	3	42	14.7	+9	28.3	8.3	✓

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January 30, 1912 (Cont'd)

I 37470

No.	Class	Int.	Remark
28	Y5	5	
29	A0	4	
30	A3	3	B.P. S faint for this class. Magh Comp.
31	Y5	1	
32	A0	6	
33	F5	5	
34	G5	2	Poor focus
35	G	4	"
36	K	3	"
37	F5	3	"
38	G5	2	
39	K	3	
40	Ma	4	
41	K	8	E
42	G	3	E
43	A0	2	
44	A0	10	E
45	A0	8	E
46	G5	8	
47	G5	10	Runned out
48	A3	3	
49	G5	5	
50	G0	3	
51	G	3	Poor focus
52	G5	2	
53	A0	3	
54	F	3	Too much superpack on 53 - Look up on print disp

28	+10°	492	3	41	47.6	+10	6.0	8.0 ✓
29	+10°	497	3	43	42.5	+10	24.8	8.3 ✓
30	+9°	507	3	44	53.2	+9	32.4	8.3 ✓
31	+8°	595	3	46	22.5	+8	49.2	8.5 ✓
32	+8°	596	3	46	54.7	+8	45.2	7.0 ✓
33	+7°	560	3	45	25.7	+7	20.6	var ✓
34	+7°	571	3	48	41.1	+7	9.2	8.5 ✓
35	+7°	5745	3	50	28.6 36.5	+7	11.5 3.3	7.8 ✓
36	+7°	576	3	50	36.5	+7	3.3	8.1 ✓
37	+9°	512	3	47	43.4	+9	29.1	8.5 ✓
38	+10°	502	3	47	15.1	+10	52.3	8.8 ✓
39	+11°	543	3	49	36.8	+11	4.3	8.5 ✓
40	+10°	513	3	50	40.8	+10	35.8	7.7 ✓
41	+9°	524	3	51	44.1	+9	54.9	6.9 ✓
42	+9°	523	3	51	5.7	+9	23.0	8.0 ✓
43	+9°	525	3	52	38.6	+9	45.5	8.3 ✓
44	+9°	528	3	53	52.6	+9	35.1	5.8 ✓
45	+12°	477	3	19	18.9	+12	14.4	7.0 ✓
46	+12°	485	3	22	15.8	+12	23.8	8.5 ✓
47	+12°	486	3	22	52.7	+12	27.6	4.0 ✓
48	+11°	488	3	24	26.6	+11	52.3	8.5 ✓
49	+13°	568	3	25	19.9	+13	17.2	7.5 ✓
50	+10°	460	3	27	8.6	+10	33.8	8.2 ✓
51	+10°	461	3	27	21.8	+10	67.1	8.3 ✓
52	+11°	496	3	28	28.5	+11	31.7	8.7 ✓
53	+12°	493	3	28	43.1	+12	48.9	8.7 ✓
54	+13°	578	3	31	11.2	+13	14.7	8.8 ✓

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January 30, 1912 (Cont)

I 37470

No.	Class	Dist	Remark
55	G5	7	
56	G5	3	
57	F8	3	
58	F5	2	
59	F5	2	
60	G5	3	
61	G	2	
62	G5	2	
63	A	2	
64	A	4	
65	B3	10	
66	G0	3	
67	G0	4	
68	F0	3	
69	G5	2	
70	B9	8	
71	K	1	
72	F8	3	
73	G5	3	
74	A	3	
75	A	10+	E
76	K	6	E
77	A	4	Double, star perp[endicular]?
78	A	8	
79	A	6	E
Time 11:01	80	Ma?	3 Focus poor

55	+13°	579	3	31	13.9	+13	25.5	7.0	✓
56	+13°	581	3	32	30.9	+13	5.6	8.0	✓
57	+12°	508	3	33	28.0	+12	8.8	8.0	✓
58	+11°	510	3	34	54.2	+11	29.9	8.6	✓
59	+10°	474	3	36	48.8	+10	48.4	8.5	✓
60	+10°	~~492~~ 479	3	~~41~~ 38	~~47.6~~ 11.2	+10	6.8 7.5	8.0	✓
61	+9°	479	3	36	43.7	+9	43.4	8.6	✓
62	+10°	481	3	38	51.5	+10	43.7	8.5	✓
63	+11°	516	3	38	38.2	+11	4.5	8.8	✓
64	+11°	517	3	38	52.0	+11	13.0	8.5	✓
65	+10°	486	3	40	19.5	+10	41.4	5.2	✓
66	+10°	487	3	40	27.1	+10	21.9	8.0	✓
67	+10°	489	3	41	30.2	+10	41.7	8.2	✓
68	+11°	526	3	40	53.0	+11	15.4	8.6	✓
69	+10°	491	3	41	47.1	+10	59.5	8.3	✓
70	+12°	516	3	43	13.7	+12	36.5	7.0	✓
71	+13°	612	3	44	41.2	+13	30.7	8.5	✓
72	+13°	614	3	45	40.2	+13	4.7	8.0	✓
73	+13°	616	3	46	29.2	+13	19.7	7.5	✓
74	+12°	535	3	50	4.0	+12	20.3	8.3	✓
75	+12°	539	3	52	40.4	+12	49	var	✓
76	+13°	621	3	51	13.3	+13	35.5	6.8	✓
77	+13°	622	3	51	20.2	+13	18.7	8.5	✓
78	+13°	594	3	38	22.7	+13	3.6	7.0	✓
79	+14°	565	3	20	53.5	+14	29.4	7.3	✓
80	+14°	575	3	25	32.1	+14	11.0	8.3	✓

Identified by a. D. N. Feb. 7, 1912.

Checked by J. C. M. Feb. 28, 1912

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January 30, 1912

Trine 11.15 — I37471

No.	Class	Dist.	Remark
1	A2	3	
2	A2	2	
3	K	2	
4	A	4	Poor focus
5	A0	6	
6	A5	5	
7	K5	8	
8	K0	5	
9	K	2	
10	K5	2	
#	F5	6	

No	Dm	Rh	Dec	Mag.	
1	+1° 46′ 20.8″	3h 29m 45.8s	+1° 58′ 22.8″	8.1	✓
2	+1 63 0	3 29 59.0	+1 0.6	8.3	✓
3	+0 62 2	3 30 14.7	+0 58.9	8.2	✓
4	+2 57 5	3 31 10.4	+2 14.3	8.0	✓
5	+2 57 7	3 31 23.4	+2 17.0	8.0	✓
6	+3 50 3	3 30 13.9	+3 40.8	7.4	✓
7	+2 58 1	3 32 18.8	+2 36.5	6.8	✓
8	+4 57 1	3 32 51.3	+4 40.1	7.0	✓
9	+2 58 4	3 33 27.6	+2 28.6	8.0	✓
10	+2 58 7	3 34 38.4	+2 57.7	8.3	✓
			Identified by C. L. A. Mar. 12, 1912		
11	+2° 60 2	3 37.5	+2 9.4	7.5	✓

Checked by J. C. M. March 29, 1912

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January 30, 1912

Time 11.30

B 24325 Short disp.

No.	Class	Dist.	Remark
1	Ao	7	
2	Ko	2	
3	A2	3	
4	Ko	6	
5	A5	3	
6	F5	5	
7	G5	10	
8	A2	6	
9	G5	6	
10	F0	6	
11	G5	6	
12	G5	1	
13	Ao	6	
14	F5	6	
15	G0	8	
16	Ao	3	
17	G5	5	
18	G5	4	
19	F0	3	
20	Ko	4	
21	G	4	E
22	F	5	E.
23	F8	5	
24	Ao	3	
25	A2	5	
26	G	3	
27	A2	4	

1	+5°	490	3	18.1	+5	25.8	8.0 ✓
2	+5°	492	3	18.4	+5	1.9	8.4 ✓
3	+4°	535	3	19.0	+4	58.6	8.7 ✓
4	+5°	495	3	19.9	+5	21.7	7.5 ✓
5	+5°	499	3	21.8	+5	58.0	8.7 ✓
6	+5°	502	3	22.1	+5	17.5	8.3 ✓
7	+5°	502	3	23.1	+5	40.8	6.7 ✓
8	+5°	503	3	23.1	+5	1.4	7.9 ✓
9	+4°	543	3	23.1	+4	52.7	7.7 ✓
10	+4°	544	3	23.2	+4	39.9	8.0 ✓
11	+4°	548	3	25.2	+4	45.3	8.3 ✓
12	+4°	549	3	25.4	+4	58.2	8.9 ✓
13	+4°	554	3	27.0	+4	51.7	8.5 ✓
14	+5°	512	3	27.5	+5	14.7	8.0 ✓
15	+5°	511	3	27.1	+5	55.8	7.3 ✓
16	+5°	514	3	27.8	+5	55.4	8.5 ✓
17	+6°	552	3	26.0	+6	25.6	8.0 ✓
18	+7°	517	3	24.3	+7	4.5	8.2 ✓
19	+7°	516	3	24.0	+7	19.3	8.3 ✓
20	+6°	540	3	23.3	+6	42.8	8.0 ✓
21	+6°	535	3	20.5	+6	47.4	8.2 ✓
22	+7°	511	3	19.9	+7	13.7	8.0 ✓
23	+5°	521	3	30.2	+5	9.6	8.0 ✓
24	+6°	565	3	32.4	+6	59.8	8.2 ✓
25	+6°	565	3	32.6	+6	4.7	8.2 ✓
26	+6°	568	3	33.0	+6	16.1	8.7 ✓
27	+7°	530	3	32.5	+7	7.1	7.7 ✓

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January 30, 1912 (Cont.)

B24825

No.	Class	Int.	Remarks
28	Ky	3	
29	Ko	3	
30	A2	5	
31	Ko	2	
32	A2	3	
33	A	5	
34	A	7	e
35	Ko	3	
36	Ky	8	e
37	Ko	3	
38	K5	4	
39	B	10+	Burned plt.
40	B	10+	"
41	Ky	6	
42	Ko	5	
43	F	3	
44	Ky	9	
45	Ko	3	
46	K5	3	
47	Ky	3	
48	K0	4	
49	Bq	5	
50	K5	2	
51	F8	2	
52	K5	2	
53	A5	3	
54	K0	8	

28	+6°	57.1	3	34.1	+6	50.7	8.5 ✓
29	+7°	53.6	3	34.6	+7	4.9	8.3 ✓
30	+7°	53.7	3	35.0	+7	25.9	8.3 ✓
31	+6°	57.4	3	35.7	+6	49.9	8.7 ✓
32	+6°	57.6	3	35.9	+6	22.7	9.0 ✓
33	+6°	58.1	3	37.3	+6	10.5	8.0 ✓
34	+6°	58.2	3	38.0	+6	44.7	7.3 ✓
35	+6°	58.4	3	38.7	+6	48.1	8.0 ✓
36	+6°	58.3	3	38.4	+6	20.7	6.7 ✓
37	+6°	58.7	3	40.3	+6	40.7	7.9 ✓
38	+6°	59.0	3	42.4	+6	10.6	7.5 ✓
39	+6°	59.4	3	44.3	+6	5.7	6.1 ✓
40	+5°	53.9	3	38.0	+5	35.4	5.7 ✓
41	+4°	53.2	3	16.0	+4	21.7	7.7 ✓
42	+3°	46.4	3	14.5	+3	41.5	8.0 ✓
43	+3°	46.2	3	13.6	+3	20.2	8.8 ✓
44	+3°	46.1	3	13.6	+3	7.2	6.3 ✓
45	+2°	52.7	3	13.7	+2	55.5	8.2 ✓
46	+2°	52.6	3	13.4	+2	44.6	8.7 ✓
47	+1°	58.4	3	15.2	+1	56.9	8.8 ✓
48	+2°	53.4	3	15.8	+2	19.5	8.3 ✓
49	+2°	53.5	3	16.4	+2	31.6	8.0 ✓
50	+2°	53.6	3	17.8	+2	46.0	8.5 ✓
51	+2°	54.0	3	19.1	+2	49.4	9.0 ✓
52	+2°	54.2	3	19.4	+2	58.3	8.5 ✓
53	+2°	54.8	3	20.0	+2	40.8	8.7 ✓
54	+2°	55.2	3	21.5	+2	45.0	6.5 ✓

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January 30, 1912 (Cont.)

B24 3215

No.	Class	Int.	Remark
55	Q0	8	
56	78	4	
57	Q2	4	
58	75	2	Partly superposed on 57
59	K0	4	
60	75	3	
61	72	5	
62	K	1	
63	Y	1	
64	Q3	4	
65	78	2	
66	7	2	
67	Y5	5	
68	K0	3	
69	72	21	
70	7	1	
71	70	5	
72	75	2	
73	30	8	
74	Y	2	
75	K5	2	
76	K5	3	Mayer Man.
77	Y0	3	
78	Q0	5	
79	K0	3	
80	Q2	1	
81	Y	1	

55	+3°	481	3	21.1	+3	51.9	8.2 ✓
56	+3°	475	3	20.6	+3	39.6 8.7	9.0 /
57	+3°	476	3	20.1	+3	37.4	9.0 ✓
58	+3°	475	3	20.0	+3	37.7	9.0 ✓
59	+3°	478	3	20.4	+3	24.3	8.7 /
60	+4°	540	3	21.3	+4	38.1	8.8 ✓
61	+3°	486	3	24.6	+3	23.3	8.3 ✓
62	+3°	488	3	24.8	+3	54.5	9.0 ✓
63	+4°	546	3	24.7	+4	9.2	9.0 ✓
64	+4°	501	3	25.6	+4	10.8	8.8 ✓
65	+3°	490	3	25.6	+3	38.5	9.0 ✓
66	+3°	491	3	26.4	+3	30.2	9.2 ✓
67	+2°	562	3	26.7	+2	56.7	8.1 ✓
68	+2°	563	3	27.3	+2	52.3	8.5 ✓
69	+3°	495	3	27.9	+3	1.8	9.0 ✓
70	+3°	496	3	28.0	+3	26.2	9.2 ✓
71	+3°	500	3	29.2	+3	59.9	8.5 ✓
72	+3°	501	3	29.6	+3	31.8	9.0 ✓
73	+3°	503	3	30.2	+3	40.8	7.4 ✓
74	+3°	504	3	31.0	+3	36.3	9.0 ✓
75	+3°	506	3	31.4	+3	4.2	8.9 ✓
76	+3°	507	3	31.8	+3	4.7	8.6 ✓
77	+3°	512	3	33.4	+3	6.3	9.0 ✓
78	+3°	511	3	33.2	+3	51.9	8.5 ✓
79	+3°	514	3	33.5	+3	42.4	8.8 ✓
80	+4°	572	3	33.0	+4	13.6	9.2 ✓
81	+4°	569	3	32.7	+4	26.9	9.2 ✓

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January 31, 1912 (cont.)

B 24 325

No.	Class	Int.	Remark
82	G5	6	
83	G	2	
84	G5	5	
85	G5	4	
86	G5	6	
87	G5	2	
88	K2	3	
89	G5	2	
90	F5	7	Too dense.
91	K0	2	
92	G5	5	Focus fine
93	G	3	"
94	K0	4	
95	K	2	
96	G	1	
97	G5	4	
98	G0	7	
99	K	2	
100	F2	4	
101	F	3	
102	F0	3	
103	K0	48	
104	G2	3	
105	F8	3	
106	K	2	
107	K2	3	
108	G5	2	

82	+4°	571	3	32.9	+4	40.1	7.0 ✓
83	+5°	534	3	35.0	+5	0.7	8.7 ✓
84	+3°	517	3	35.3	+3	40.1	8.5 ✓
85	+3°	519	3	36.1	+3	45.3	8.8 ✓
86	+2°	587	3	34.6	+2	57.7	8.3 ✓
87	+2°	595	3	36.3	+2	58.7	8.9 ✓
88	+2°	603	3	38.0	+2	46.9	8.0 ✓
89	+2°	596	3	36.7	+2	17.5	9.0 ✓
90	+2°	602	3	37.5	+2	9.4	7.5 ✓
91	+0°	579	3	15.3	+0	38.7	8.3 ✓
92	+0°	581	3	16.2	+0	24.3	7.2 ✓
93	+0°	586	3	16.8	+0	50.0	8.5 ✓
94	+1°	587	3	16.9	+1	34.5	8.5 ✓
95	+1°	590	3	17.4	+1	28.2	8.5 ✓
96	+1°	592	3	18.2	+1	31.3	9.0 ✓
97	+1°	595	3	18.9	+1	40.0	8.5 ✓
98	+1°	597	3	19.7	+1	46.2	7.5 ✓
99	+1°	594	3	18.9	+1	9.3	8.7 ✓
100	+1°	602	3	21.5	+1	44.9	8.5 ✓
101	+1°	608	3	23.1	+1	34.8	8.5 ✓
102	+2°	556	3	23.9	+2	9.9	8.5 ✓
103	+2°	557	3	25.1	+2	39.2	8.3 ✓
104	+2°	559	3	25.4	+2	5.6	9.0 ✓
105	+1°	622	3	27.7	+1	30.4	9.0 ✓
106	+1°	621	3	27.7	+1	17.6	8.7 ✓
107	+0°	607	3	26.9	+0	55.1	8.5 ✓
108	+1°	626	3	29.2	+1	11.5	8.7 ✓

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January 31, 1912 (Cont.)
B2432.5

No.	Class	Int.	Remarks
109	Q2	5	
110	Q3	7	
111	K0	5	
112	K	2	
113	F	2	
114	G5	3	
115	Q2	1	
116	G5	2	
117	G5	1	
118	Q	1	
119	K0	3	
120	Q2	5	
121	Q0	6	
122	F0	4	
123	G0	8	
124	K0	3	
125	Q2	3	
126	Q3	3	
127	K2	3	
128	G	4	Poor focus.
129	Q0	4	
130	Q0	6	
131	G5	6	
132	M	10	Burned out
June 11.55 133	G5	7	"
134	F2	4	

109	+1°	6'30	3	30.0	+1	0.6	8.3 ✓
110	+0°	6'20	3	29.8	+0	52.2	8.3 ✓
111	+0°	6'23	3	30.2	+0	38.9	8.2 ✓
112	+0°	6'17	3	29.5	+0	26.2	8.6 ✓
113	+0°	6'25	3	30.4	+0	29.8	9.0 ✓
114	+0°	6'30	3	31.5	+0	18.7	8.5 ✓
115	+0°	6'27	3	30.5	+0	56.5	9.0 ✓
116	+0°	6'28	3	30.8	+0	58.2	8.7 ✓
117	+2°	5'68	3	28.7	+2	37.7	9.3 ✓
118	+2°	5'72	3	30.2	+2	28.8	9.3 ✓
119	+2°	5'74	3	31.2	+2	25.4	8.3 ✓
120	+2°	5'75	3	31.2	+2	14.3	8.0 ✓
121	+2°	5'77	3	31.4	+2	17.0	8.0 ✓
122	+2°	5'79	3	31.8	+2	5.5	8.5 ✓
123	+2°	5'81	3	32.3	+2	36.5	5.8 ✓
124	+2°	5'84	3	33.5	+2	28.6	8.0 ✓
125	+1°	6'46	3	33.7	+1	52.7	8.8 ✓
126	+1°	6'51	3	35.6	+1	30.9	8.8 ✓
127	+1°	6'56	3	37.2	+1	30.4	8.0 ✓
128	−0°	5'90	3	36.0	−0	2.6	8.0 ✓
129	−0°	5'85	3	34.2	−0	38.1	7.8 ✓
130	−0°	5'84	3	34.0	−0	41.6	8.3 ✓
131	−0°	5'77	3	30.4	−0	20.6	8.0 ✓
132	−0°	5'72	3	29.0	−0	3.7	4.2 ✓
133	+0°	6'16	3	29.4	+0	6.9	6.9 ✓
134	+4°	5'82	3	37.6	+4	58.5	8.7

29 m B1268

Identified by J.C.M. April 22, 1912
Checked by A.M.C. April 25, 1912

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January 31, 1912

Time 12.12 B 12680 Ghost diff.

No.	class	Int.	Remark
1	γ_0	4	
2	B5?	10	Burned out.
3	γ_5	5	
4	γ_5	3	
5	γ_5	6	
6	K0	4	
7	γ_0	6	
8	A0	4	
9	γ_0	6	Metallic lines well marked. May resemble β Can Majr.
10	A0	4	
11	γ_5	3	
11a	A_2	5	
12	A8	10	Burned out
13	F8	4	
14	A2	3	
15	γ	2	Difficult
16	A2	5	
17	A3	4	
18	γ	3	
19	B?	10+	Burned out
20	A0	3	
21	B3	10	Classified from I 37357
22	γ_0	3	
23	γ_5	2	
24	F8	2	Difficult
25	γ_0	4	
26	γ	2	
27	F8	3	

1	+6°	590	3	42.4	+6	10.6	7.5 v
2	+6°	594	3	44.3	+6	5.7	6.1 v
3	+7°	560	3	45.4	+7	20.6	var. v
4	+7°	571	3	48.7	+7	9.2	8.5 v
5	+7°	575	3	50.5	+7	11.5	7.8 v
6	+7°	576	3	50.6	+7	3.3	8.1 v
7	+6°	605	3	48.9	+6	17.0	7.8 v
8	+6°	607	3	49.9	+6	27.4	8.5 v
9	+4°	601	3	46.8	+4	45.3	8.0 v
10	+4°	602	3	47.1	+4	30.8	8.5 v
11	+5°	562	3	48.8	+5	25.7	8.0 v
11a	+5°	559	3	47.2	+5	9.0	8.3 v
12	+5°	564	3	49.3	+5	36.4	7.0 v
13	+5°	567	3	50.0	+5	18.2	8.3 v
14	+5°	568	3	50.1	+5	3.9	8.5 v
15	+5°	570	3	50.4	+5	9.5	8.7 v
16	+4°	614	3	51.9	+4	12.3	8.2 v
17	+4°	619	3	53.1	+4	40.3	8.5 v
18	+4°	620	3	53.5	+4	7.6	8.8 v
19	+5°	581	3	55.5	+5	35.2	4.0 v
20	Trail of "19"						v
21	+5°	584	3	56.1	+5	1.7	6.2 v
22	+4°	629	3	57.2	+4	23.1	8.7 v
23	+4°	632	3	58.3	+4	17.4	8.8 v
24	+4°	633	3	59.1	+4	29.5	8.8 v
25	+3°	563	14	0.3	+3	54.2	8.6 v
26	+4°	642	2	1.5	+4	22.4	8.7 v
27	+6°	589	3	59.0	+5	18.4	8.5 v

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January 31, 1912 (Cont.)

B 12680

No.	Class	Mt.	Remarks
28	F5	8	E
29	F2	4	
30	K5	2	
31	A0	5	
32	A5	2	Difficult
33	F	2	
34	K	2	
35	K2	2	
36	K0	6	
37	F8	1	
38	G5	1	
39	A5	3	Difficult
40	B9	8	
41	K2	3	
42	K2	3	
43	F	2	Difficult
44	F5	5	
45	F8	3	
46	A0	5	
47	A0	10	
48	A	4	
49	B	2	Difficult
50	G5	7	
51	G5	2	
52	G5	1	
53	F0	5	
54	K2	4	

28	+2°	655	4	2.2	+2	56.2	7.1
29	+4°	582	3	37.4	+4	37.5	8.7
30	+3°	523	3	37.7	+3	58.6	8.5
31	+4°	588	3	39.2	+4	26.2	8.7
32	+4°	592	3	43.5	+4	43.4	8.7
33	+3°	540	3	49.0	+3	39.2	8.7
34	+3°	545	3	51.1	+3	6.1	8.5
35	+3°	546	3	51.9	+3	21.9	8.3
36	+2°	628	3	49.1	+2	38.3	7.0
37	+2°	629	3	49.4	+2	32.5	8.8
38	+2°	633	3	51.2	+2	4.9	8.5
39	+1°	691	3	52.6	+1	43.1	9.0
40	+1°	689	3	52.2	+1	21.9	8.2
41	+1°	685	3	50.9	+1	2.2	7.4
42	+2°	608	3	38.0	+2	46.9	8.0
43	+2°	608	3	40.6	+2	18.9	8.3
44	+1°	665 823	3	48.1	+1	8.1 58.5	8.3 7.8
45	+2°	612	3	41.9	+2	3.1	8.4
46	+2°	618	3	44.2	+2	19.7	8.3
47	+1°	673	3	46.0	+1	40.7	6.7
48	+1°	676	3	46.6	+1	44.4	8.2
49	+1°	678	3	46.9	+1	55.0	8.5
50	+1°	679	3	47.2	+1	39.0	8.0
51	+1°	681	3	48.8	+1	46.6	8.0
52	+1°	638 817	3	37.8 38.5	+1	5 0.6	8.5 9.0
53	+0°	651	3	38.3	+0	9.8	8.4
54	−0°	594	3	38.5	−0	14.4	7.8

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January 31, 1912 (cont.)

B 12680

No.	Class	Dist.	Remark
55	Ko	8	
56	A	3	
57	gs	2	
58	gs	2	
59	K	1	
60	Fo	8	
61	gs	3	
62	A	4	
63	Ko	3	
64	F	2	
65	Go	4	
66	F8	3	
67	Fo	3	
68	A2	10	
69	A	10	
70	A	1	
71	Ko	8	
72	B2	10+	Burned out.
73	gs	5	
74	F2	6	
75	Fo	3	
76	A2	6	
77	F	5	E
78	Ko	3	
79	A2	4	
80	F	10	
81	A0	8	

55	−0°	602	3	41.2	−0	13.4	6.5 ✓
56	−0°	605	3	42.1	−0	48.6	8.2 ✓
57	−0°	608	3	43.4	−0	37.5	8.2 ✓
58	+0°	659	3	42.1	+0	56.2	8.3 ✓
59	+0°	661	3	42.8	+0	58.5	8.6 ✓
60	+1°	667	3	43.3	+1	7.3	7.0 ✓
61	+1°	668	3	43.6	+1	17.5	8.0 ✓
62	+0°	664	3	43.7	+0	29.9	8.2 ✓
63	+1°	671	3	45.3	+1	18.4	8.0 ✓
64	+0°	671	3	46.1	+0	57.2	8.2 ✓
65	+0°	675	3	46.9	+0	50.5	7.6 ✓
66	−0°	617	3	46.8	−0	8.4	8.3 ✓
67	−0°	618	3	47.5	−0	25.1	8.3 ✓
68	−1°	549	3	44.9	−1	5.0	7.3 ✓
69	−1°	548	3	44.8	−1	34.3	7.0 ✓
70	−1°	551	3	45.3	−1	26.0	8.8 ✓
71	−0°	593	3	37.5	−0	45.9	6.2 ✓
72	−1°	526	3	37.2	−1	36.8	5.8 ✓
73	−1°	539	3	42.0	−1	53.2	7.5 ✓
74	−1°	544	3	42.9	−1	58.1	7.0 ✓
75	−2°	739	3	44.7	−2	3.9	8.3 ✓
76	−1°	561	3	49.4	−1	58.0	8.3 ✓
77	−1°	562	3	49.5	−1	18.1	5.8 ✓
78	−1°	565	3	50.2	−1	33.6	8.7 ✓
79	−0°	630	3	54.8	−0	19.1	8.4 ✓
80	−0°	632	3	55.2	−0	39.8	6.2 ✓
81	−1°	574	3	55.3	−1	12.3	7.2 ✓

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January 31, 1912 (cont.)

R.A. 12 h 50 m

No.	Class	Ext.	Remark
82	Ys	3	
83	F5	5	Focus poor
84	F5	10	
85	F0	5	
86	K2	3	
87	B8	7	
88	Bq	6	
89	Ma	4	
90	F	4	e
91	K	2	e
June 12.32 92	F	4	e

82	-0°	636	3	57.1	-0	8.5	8.3 ✓
83	+1°	699	3	59.2	+1	17.2	8.2 ✓
84	+2°	645	3	56.6	+2	25.5	5.8 ✓
85	+2°	640	3	55.8	+2	39.3	7.8 ✓
86	+2°	641	3	55.8	+2	46.7	7.7 ✓
87	+3°	552	3	54.9	+3	25.8	7.7 ✓
88	+3°	554	3	56.4	+3	26.8	8.7 ✓
89	+1°	713	4	3.6	+1	56.8	8.2 ✓
90	+1°	711	4	3.5	+1	34.8	9.0 ✓
91	+0°	707	4	2.8	+0	57.5	8.0 ✓
92	+0°	708	4	1.2	+0	23.8	8.2 ✓

Identified by J.C.M. April 23, 1912.
Checked by A.M.C. April 25, 1912.

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Feb. 1, 1912 — 37431

Time 11.05

No	Class	Int.	Remark
1	A0	6	E.
2	g	2	E.
3	F0	4	
4	A3	3	
5	g5	3	
6	g5	4	
7	g5	1	
8	K0	2	
9	A3	2	
10	g5	4	
11	K0	3	
12	A2	9	
13	A0	8	
14	g5	2	
15	B9	3	
16	g0	2	
17	A0	4	
18	g5	4	
19	F5	4	E.
20	A	2	
21	g5	4	
22	g	2	
23	g5	5	
24	g5	1	
25	F8	5	
26	g5	3	
27	g5	4	

No	Dm	RA	Dec	mg	
1	+22	354	2 20 57.0	+22 49.6	6.0 ✓
2	+21	346	2 23 10.5	+21 26.8	8.0 ✓
3	+21	348	2 23 57.4	+21 21.5	7.5 ✓
4	+21	349	2 24 10.9	+21 39.9	8.0 ✓
5	+20	414	2 23 37.2	+20 43.7	7.3 ✓
6	+20	416	2 24 0.3	+20 25.7	7.7 ✓
7	+19	371	2 25 20.9	+19 48.3	8.3 ✓
8	+19	374	2 26 15.2	+19 21.4	8.3 ✓
9	+20 +14	33 482	2 25 33.5 +1 43.6	+20 4.0 +14 6.6	8.3 8.8 ✓
10	+19	389	2 27 23.6	+19 56.7	7.6 ✓
11	+19	394	2 30 27.0	+19 6.1	7.5 ✓
12	+21	362	2 30 34.9	+21 20.7	5.8 ✓
13	+19	403	2 34 11.9	+19 22.9	5.8 ✓
14	+19	405	2 34 50.3	+19 36.1	8.0 ✓
15	+20	452	2 35 27.8	+20 31.5	7.2 ✓
16	+20 +19	35 432	2 36 37.3 +1 46.8	+20 59.3 +1 58.8	7.7 8.8 ✓
17	+20 +19	58 433	2 37 3 +1 46.8	+20 4.0 +1 4.8	7.3 7.8 ✓
18	+22	392	2 38 57.2	+22 21.2	6.5 ✓
19	+23	369	2 39 10.0	+23 2.2	6.8 ✓
20	+19	424	2 40 9.0	+19 24.5	8.3 ✓
21	+18	347	2 39 17.2	+18 46.7	6.8 ✓
22	+18	344	2 38 11.8	+18 12.6	8.3 ✓
23	+17	442	2 40 24.7	+17 41.4	6.0 ✓
24	+18	355	2 41 3.3	+18 7.3	8.1 ✓
25	+18	359	2 42 32.0	+18 38.2	7.2 ✓
26	+19	432	2 46 3.8	+19 58.0	6.8 ✓
27	+19	433	2 46 30.8	+19 46.3	7.0 ✓

Cards made out

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I 37431

No.	Class	Int.	Remark
28	F2	7	
29	F0	3	
30	A0	10	
31	A2	5	
32	A5	1	
33	F0	6	
34	G5	5	
35	F5	2	
36	A5	4	
37	G0	3	
38	B9	6	
39	G5	3	
40	A2	4	
41	Ma	3	
42	K0	6	
43	K0	2	
44	A	2	Partly superposed
45	A	3	" "
46	B8	9	
47	F2	5	
48	F0	4	
49	Mb	6	
50	F5	8	
51	K0	3	
52	A	2	
53	A0	6	
54	F8	7	

No.	DM		RA		Dec		Mg	
28	+20	480	2	47	47.3	+20	4.0	6.0 ✓
29	+19	440	2	50	55.8	+19	23.1	8.0 ✓
30	+20	484	2	50	55.8	+20	46.1	4.2 ✓
31	+21	397	2	50	34.5	+21	1.5	7.0 ✓
32	+21	386	2	50	32.3	+21	26.0	8.0 ✓
33	+18	365	2	22	31.3	+19	12.7	6.4 ✓
34	+17	380	2	22	53.1	+17	3.9	6.5 ✓
35	+17	383	2	23	07.0	+17	44.0	8.3 ✓
36	+18	325	2	26	31.2	+18	15.6	7.0 ✓
37	+17	414	2	32	28.2	+17	58.4	7.8 ✓
38	+18	387	2	33	0.2	+18	11.1	7.0 ✓
39	+17	419	2	03	55.3	+17	5.1	7.8 ✓
40	+16	330	2	34	18.5	+16	20.2	8.3 ✓
41	+16	337	2	35	34.0	+16	05.5	7.9 ✓
42	+17	426	2	36	14.4	+17	5.8	6.5 ✓
43	+16	342	2	37	41.7	+16	23.3	7.8 ✓
44	+16	345	2	39	15.7	+16	41.2	8.6 ✓
45	+16	346	2	39	17.0	+16	35.7	8.7 ✓
46	+16	355	2	41	13.1	+16	57.5	5.7 ✓
47	+15	400	2	45	7.7	+15	53.5	6.5 ✓
48	+17	404	2	46	48.9	+17	8.8	7.0 ✓
49	+17	407	2	47	46.7	+17	44.4	6.0 ✓
50	+17	408	2	48	14.7	+17	26.4	6.5 ✓
51	+17	461	2	49	46.4	+17	13.6	7.3 ✓
52	+17	463	2	50	30.1	+17	57.4	8.7 ✓
53	+17	471	2	52	23.1	+17	20.4	6.8 ✓
54	+14	419	2	24	07.9	+14	24.0	6.5 ✓

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No.	Class	Int.	Remark
55	F8	4	E
56	g5	3	
57	A2	3	
58	Bg	3	
59	g	2	
60	F5	2	
61	B8	1	
62	A0	3	
63	g5	2	
64	K0	3	
65	B8	9	
66	g5	2	
67	g5	3	
* 68	K	3	
69	A	3	
70	g	10+	Burnid out
71	F8	4	E
72	A	3	E

Time 11.22

* Seems even K.

No	Dm	RA	Dec	mg	
55	+13 411	2 28 7.9	+13 8.0	7.5	✓
56	+14 439	2 31 2.9	+14 13.8	7.5	✓
57	+16 322	2 32 7.7	+16 5.9	7.8	✓
58	+14 448	2 34 30.5	+14 36.0	8.0	✓
59	+14 454	2 36 0.7	+14 56.6	8.5	✓
60	+14 456	2 36 7.9	+14 27.7	8.5	✓
61	+14 457	2 36 34.8	+14 42.3	6.0	✓
62	+14 462	2 38 17.9	+14 24.2	7.8	✓
63	+14 467	2 39 38.3	+14 37.1	7.8	✓
64	+14 469	2 39 59.5	+14 53.8	7.5	✓
65	+14 480	2 43 38.5	+14 28.1	6.0	✓
66	+15 401	2 45 53.3	+15 24.8	8.2	✓
67	+15 407	2 47 18.7	+15 42.8	7.8	✓
68	+15 414	2 49 24.2	+15 41.6	7.8	✓
69	+14 492	2 47 40.6	+14 6.6	7.0	✓
70	Saturn	2 48 23	+13 39		✓
71	+13 442	2 37 6.2	+13 37.5	7.8	✓
72	+13 446	2 37 27.5	+13 19.2	8.4	✓

Cards made 3d

Identified by C.P.A. Feb. 20, 1912
Checked by J.C.M. Feb. 29, 1912

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Time 12.00

H 366 54

No.	Class	Int.	Remark
1	A2	6	E.
2	g5	4	
3	H	6	E.
4	g	10	E.
5	K0	5	
6	F0	8	
7	A0	10	
8	A	1	
9	A5	8	
10	F0	7	
11	A3	2	
12	K2	7	
13	A	3	
14	F5	5	E.
15	g5	5	
16	B9	6	
17	g0	6	
18	F8	5	
19	B9	3	
20	F8	4	
21	F8	3	
22	g0	4	
23	K5	6	
24	A0	4	
25	A0	6	
26	A2	4	E
27	A2	3	E

Corr made

No.	Dm	RA	Dec	Mag	
1	+61	739	4 40 37	+61 13.8	6.9 ✓
2	+61	742	4 44 10	+61 30.6	7.1 ✓
3	+60	853	4 48 36.7	+60 50.8	7.0 ✓
4	+60	856	4 50 34.9	+60 12.9	5.0 ✓
5	+60	857	4 53 26.7	+60 57.7	6.7 ✓
6	+62	730	4 56 18	+62 17.4	7.0 ✓
7	+61	766	4 59 47	+61 39.8	6.7 ✓
8	+61	763	4 59 8	+61 16.5	8.8 ✓
9	+62	734	5 0 5	+62 30.4	6.7 ✓
10	+62	735	5 1 2	+62 55.2	7.5 ✓
11	+62	736	5 1 11	+62 21.9	8.8 ✓
12	+62	742	5 6 57	+62 29.5	6.0 ✓
13	+62	743	5 7 2	+62 07.4	8.0 ✓
14	+60	870	5 4 33.4	+60 0.2	8.2 ✓
15	+61	782	5 9 40	+61 37.2	7.8 ✓
16	+61	783	5 11 43	+61 41.1	8.0 ✓
17	+63	579	5 11 2	+63 13.9	7.0 ✓
18	+63	577	5 9 40	+63 58.7	8.0 ✓
19	+63	580	5 11 14	+63 55.8	7.4 ✓
20	+64	523	5 10 39	+64 33.6	7.5 ✓
21	+63	585	5 16 39	+63 49.3	8.5 ✓
22	+64	532	5 17 31	+64 11.5	8.2 ✓
23	+62	709	5 16 31	+62 56.3	6.0 ✓
24	+62	762	5 18 7	+62 51.9	7.5 ✓
25	+60	884	5 16 53.4	+60 8.5	7.0 ✓
26	+59	890	5 22 18.1	+59 24.5	8.3 ✓
27	+59	891	5 22 29.7	+59 39.0	7.7 ✓

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No.	Class	Int.	Remark
28	A0	3	
29	A	2	
30	ly5	2	
31	ly	1	Focus poor
32	F0	6	
33	F5	3	
34	ly5	6	
35	F5	3	
36	A5	6	
37	B8?	4	E.
38	A2	10	E. 4026 appears to be sure.
39	F0	4	
40	A0	7	
41	Ma	7	
42	ly	3	Poor focus
43	ly	4	Another star superposed.
44	F	2	
45	ly0	2	
46	F0	8	
47	F8	4	
48	F2	9	
49	ly	3	
50	A	2	
51	A2	2	
52	K0	3	
53	Bq	9	
54	F2	4	

Cards made out

No.	Dm	RA	Dec	mg	
28	+60 890	5 24 2.2	+60 29.5	8.0	✓
29	+61 793	5 19 38	+61 8.3	8.6	✓
30	+61 789	5 23 25	+61 18.2	8.0	✓
31	+61 850	5 23 45	+61 7.6	8.2	✓
32	+61 806	5 27 4	+61 57.8	6.8	✓
33	+61 813	5 29 17	+61 32.6	7.9	✓
34	+61 518 .6	5 30 52	+61 22.9 11.8	6.5 8.8	✓
35	+60 897	5 30 21.0	+60 56.3	7.8	✓
36	+60 894	5 28 32.2	+60 81.9	7.0	✓
37	+61 831	5 39 5.6	+61 37.7	7.9	✓
38	+59 920	5 42 1.3	+59 55.5	5.7	✓
39	+60 915	5 46 41.8	+60 21.4	7.1	✓
40	+63 536	4 36 38	+63 21.7	7.0	✓
41	+63 543	4 38 33	+63 15.0	5.8	✓
42	+62 718	4 44 40	+62 47.9	8.3	✓
43	+62 722 723	4 58 0	+62 51.7 52.2	8.5	✓
44	+63 561	4 50 53	+63 55.7	8.3	✓
45	+63 565	4 55 59	+63 37.4	8.0	✓
46	+63 566	4 56 58	+63 23.2	7.0	✓
47	+64 503	4 58 37	+64 6.3	8.5	✓
48	+64 500	4 55 40	+64 42.9	6.9	✓
49	+64 504	4 58 55	+64 33.0	8.3	✓
50	+64 506	5 1 49	+64 27.2	8.1	✓
51	+64 516	5 4 41	+64 40.8	9.0	✓
52	+65 456	4 55 17	+65 48.0	5.0	✓
53	+65 459	4 57 16	+65 49.4	8.5	✓
54	+65 464	4 59 37	+65 52.2	7.3	✓

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Remark

No.	Class	Fst.	
55	A	2	
56	g5	7	
57	g5	2	
58	A0	3	
59	F0	2	
60	g5	3	
61	A5	8	
62	A2	5	A star of same class superposed
63	A2	4	
64	Bq	10	
65	A3	3	
66	A	2	
67	g5	5	
68	A5	4	
69	F5	4	
70	F0	5	
71	g5	7	
72	A2	8	
73	F5	2	
74	A	2	
75	A5	4	E.
76	K0	9	
77	A2	3	
78	K0	5	
79	A	1	
80	F0	2	
81	K0	3	
82	F8	6	

No	Dm	RA	Dec	Mg	
55	+66 3880	5 1 5	+66 1.6	7.0	✓
56	+66 3885	5 5 34	+66 34.0	6.8	✓
57	+66 3887	5 7 0	+66 52.1	7.8	✓
58	+66 3916	5 8 11	+66 8.6	8.0	✓
59	+66 3914	5 13 1	+66 34.9	9.1	✓
60	+66 3999	5 15 40	+66 6.5	8.0	✓
61	+66 4011	5 22 26	+66 35.5	7.0	✓
62	+64 5338	5 20 38 35	+64 56.2 56.5	7.7 8.8	✓ +64° 5338 superposed
63	+64 5333	5 23 10 3	+64 1.3 5.5	8.8	✓
64	+64 5336	5 23 15	+64 3.6	6.7	✓
65	+63 5372	5 22 11	+63 23.3	8.0	✓
66	+63 5396	5 24 13	+63 48.8	9.0	✓
67	+63 5379	5 27 58	+63 12.0	7.0	✓
68	+62 7735	5 27 58	+62 31.5	8.1	✓
69	+62 7715	5 30 17	+62 17.0 26.3	8.5	✓
70	+63 6032	5 32 6	+63 13.4	7.3	✓
71	+63 6044	5 33 39	+63 32.1	7.4	✓
72	+62 7854	5 35 24	+62 44.1	6.5	✓
73	+62 7858	5 38 9	+62 59.8	8.4	✓
74	+63 6112	5 39 30	+63 24.8	8.9	✓
75	+63 6116	5 42 18	+63 14.8	7.9	✓
76	+65 4835	5 27 57	+65 37.8	6.0	✓
77	+66 4085	5 28 45	+66 26.2	8.7	✓
78	+66 4066	5 29 5	+66 32.8	7.8	✓
79	+64 5341	5 29 27	+64 6-9.0	8.9	✓
80	+64 5342	5 29 35	+64 39.4	8.8	✓
81	+64 5344	5 31 58	+64 49.9	7.3	✓
82	+65 4977	5 36 29	+65 41.5	7.0	✓

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Nr.	Class	Int.	Remark
83	K0	3	
84	A5	2	
85	K0	6	
86	A3	6	
87	g5	4	E.
88	A3	7	E.
89	K0	3	E.
90	g5	4	E.
91	g5	4	
92	B	10+	Burned out
93	g5	3	
94	g5	4	
95	A	2	
96	K	2	
97	F8	7	
98	F2	6	
99	A0	7	
100	F0	4	
101	A2	5	Metallic lines clearly seen.
102	A3	3	
103	B8?	4	Difficult
104	A3	3	
105	F0	6	
106	g	3	Faces poor
107	F0	3	
108	F0	2	
109	A	3	E

No	Dm		Ra		Dec		Mg	
83	+65	499	5	37	46	+65	6.1	7.6 ✓
84	+64	531	5	39	21	+64	57.1	8.7 ✓
85	+66	413	5	42	52	+66	3.7	6.7 ✓
86	+65	507	5	46	46	+65	30.2	7.0 ✓
87	+65	509	5	47	44	+65	2.4	7.3 ✓
88	+66	419	5	48	49	+66	57.9	7.0 ✓
89	+66	420	5	47	18	+66	57.7	7.7 ✓
90	+64	475	4	32	34	+64	32.0	7.2 ✓
91	+65	435	4	39	9	+65	44.2	7.5 ✓
92	+66	358	4	39	39	+66	3.5	5.0 ✓
93	+66	360	4	40	2	+66	11.0	8.2 ✓
94	+65	439	4	43	25	+65	3.0	7.4 ✓
95	+65	446	4	46	50	+65	5.9	8.9 ✓
96	+65	442	4	48	16	+65	21.1	8.3 ✓
97	+66	370	4	48	11	+66	37.3	7.0 ✓
98	+66	367	4	57	21	+67	29.3	6.9 ✓
99	+67	371	4	59	8	+67	16.8	7.0 ✓
100	+67	373	4	59	50	+67	11.3	7.5 ✓
101	+67	379	5	4	31	+67	48.7	7.5 ✓
102	+67	384	5	13	0	+67	30.6	8.3 ✓
103	+67	385	5	13	37	+67	46.8	8.0 ✓
104	+67	386	5	15	3	+67	4.9	8.0 ✓
105	+67	390	5	17	45	+67	53.4	7.0 ✓
106	+67	394	5	28	31	+68	59.4	8.3 ✓
107	+67	396	5	29	33	+68	2.6	8.5 ✓
108	+67	397	5	29	36	+67	12.8	8.5 ✓
109	+66	340	4	27	38	+66	57.8	7.8 ✓

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Nr.	Class	Int.	Remark
110	A	4	E.
111	F	6	E.
112	F2	5	
113	A	4	
114	K	1	
115	K8	6	
116	K0	4	
117	F5	6	
118	F2	8	

Time 12.26

Cards made out

No	DM		RA			Dec		mg	
110	+67	342	4	25	46	+67	51.4	8.0	✓
111	+67	347	4	03	28	+67	28.7	7.5	✓
112	+67	354	4	39	6	+67	14.7	8.0	✓
113	+66	362	4	40	53	+66	41.3	8.3	✓
114	+67	356	4	40	35	+67	17.5	7.5	✓
115	+67	357	4	42	42	+67	33.0	7.0	✓
116	+67	353	4	38	46	+67	57.6	7.0	✓
117	+68	357	4	46	31	+68	56.8	7.0	✓
118	+68	361	4	00	37	+68	46.0	6.5	✓

Identified by C.L.A. Feb. 22, 1912.
Checked by J.C.M. Feb. 29, 1912

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