John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

45

Book 45

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Wednesday, May 22 1912

I 37559

Time: 10.16

No.	Fil.	Class	Remark
1	3	A	E.
2	3	ly	E.
3	3	F8	
4	2	F5	
5	2	ly	
6	4	A0	
7	2	ly	E.
8	10	B3	E.
9	4	F8	
10	6	A0	
11	8	K0	
12	7	ly5	
13	2	K5	
14	2	K2	
15	3	F8	E.
16	3	A0	
17	5	K0	
18	1	A	
19	5	ly5	
20	2	ly5	
21	5	ly0	
22	4	F5	
23	7	A2	
24	2	F5	
25	2	F5	
26	2	F8	
27	3	ly5	

1	+69°	385	6	21.0	+69	28.4	8.0	✓
2	+70°	410	6	26.0	+70	42.6	8.2	✓
3	+70°	417	6	29.6	+70	52.9	8.5	✓
4	+70°	418	6	30.4	+70	39.8	8.9	✓
5	+70°	419	6	31.3	+70	22.1	7.9	✓
6	+69°	389	6	31.4	+69	46.4	7.7	✓
7	+69°	390	6	34.1	+69	38.4	8.8	✓
8	+69°	394	6	38.0	+69	3.2	5.2	✓
9	+68°	458	6	43.5	+68	55.9	8.0	✓
10	+70°	427	6	41.2	+70	16.4	8.0	✓
11	+70°	430	6	44.9	+70	59.6	6.0	✓
12	+69°	398	6	45.8	+69	50.4	6.8	✓
13	+69°	400	6	47.0	+69	28.7	7.5	✓
14	+69°	399	6	46.8	+69	40.0	8.2	✓
15	+69°	402	6	48.8	+69	6.2	8.2	✓
16	+70°	431	6	48.8	+70	50.3	8.9	✓
17	+70°	432	6	49.5	+70	57.1	6.5	✓
18	+70°	446	6	54.0 59.6	+70	4.8	9.2 7.8	✓
19	+70°	446	6	59.6	+70	44.8	7.8	✓
20	+71°	389	7	2.0	+71	9.9	8.3	✓
21	+71°	391	7	3.5	+71	30.6	8.1	✓
22	+72°	358	7	3.2	+72	3.2	9.0	✓
23	+70°	449	7	8.4	+70	57.1	7.1	✓
24	+70°	447	7	6.5	+70	17.9	8.6	✓
25	+70°	450	7	8.5	+70	12.8	8.2	✓
26	+69°	420	7	10.2	+69	43.4	8.5	✓
27	+69°	422	7	10.8	+69	45.4	7.5	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics + Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1918
I 37559

Nr	Int.	Class	Remark
28	3	A	E.
29	4	A5	E.
30	8	K0	
31	3	G5	
32	1	A	
33	3	K2	
34	6	A3	
35	3	F8	
36	3	G0	
37	3	G5	
38	7	F5	
39	2	G	
40	5	G0	
41	5	K0	
42	9	K0	
43	2	G5	
44	3	G0	
45	5	G5	
46	4	A2	
47	8	B8	
48	7	F5	
49	7	A0	
50	2	G0	
51	1	G	
52	4	F0	
53	3	A3	
54	3	G	E.

28	+68°	468	7	2.6	+68	59.3	8.0	✓
29	+68°	472	7	5.2	+68	47.6	7.5	✓
30	+68°	480	7	15.8	+68	45.5	5.5	✓
31	+72°	366	7	15.0	+72	6.2	8.0	✓
32	+71°	400	7	15.0	+71	31.0	9.3	✓
33	+71°	402	7	15.8	+71	39.5	7.3	✓
34	+71°	405	7	17.7	+71	53.1	7.4	✓
35	+72°	367	7	17.7	+72	44.4	8.8	✓
36	+72°	372	7	24.1	+72	40.4	8.6	✓
37	+73°	380	7	18.2	+73	32.2	8.3	✓
38	+73°	381	7	20.9	+73	53.7	7.3	✓
39	+73°	382	7	21.1	+73	39.1	8.9	✓
40	+74°	334	7	29.9	+74	19.8	7.7	✓
41	+74°	335	7	30.8	+74	22.6	7.3	✓
42	+74°	338	7	42.8	+74	17.9	5.2	✓
43	+73°	389	7	38.0	+73	35.1	9.0	✓
44	+73°	387	7	36.9	+73	6.0	8.4	✓
45	+72°	382	7	36.3	+72	9.5	7.2	✓
46	+71°	428	7	36.2	+71	35.2	8.0	✓
47	+71°	429	7	38.4	+71	27.0	6.8	✓
48	+72°	385	7	40.3	+72	13.4	7.0	✓
49	+72°	386	7	41.0	+72	3.4	7.3	✓
50	+72°	387	7	41.6	+72	50.8	8.7	✓
51	+73°	393	7	44.2	+73	32.4	9.0	✓
52	+73°	395	7	47.1	+73	2.4	8.3	✓
53	+73°	397	7	49.4	+73	58.3	9.0	✓
54	+74°	341	7	53.0	+74	28.5	8.7	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912
I 37559

Nr.	Int.	Class	Remark
55	5	F	E.
56	2	K	E.
57	8	K	E.
58	2	g_5	
59	2	A_3	
60	2	K_0	
61	2	K_0	
62	5	K_0	
63	7	F_0	
64	6	g_0	
65	2	Ma	
66	2	F_8	Difficult
67	2	F	
68	2	A_2	Difficult
69	2	A	
70	2	K_0	
71	1	K	
72	3	K_0	
73	7	F_8	
74	2	F_8	
75	1	A	
76	5	K_0	
77	8	K_0	
78	2	A	
79	8	A_0	
80	1	F_5	Difficult
81	2	F_0	

55	+74°	348	7	53.9	+74	46.8	8.2 ✓
56	+74°	350	7	58.8	+74	55.2	8.5 ✓
57	+75°	334	8	4.6	+75	17.2	6.5 ✓
58	+71°	419	7	28.6	+71	4.4	8.3 ✓
59	+70°	469	7	25.7	+70	35.4	8.9 ✓
60	+70°	468	7	24.8	+70	36.5	8.7 ✓
61	+70°	471	7	27.7	+70	1.2	7.8 ✓
62	+69°	436	7	28.0	+69	40.3	6.8 ✓
63	+69°	438	7	31.9	+69	29.9	7.2 ✓
64	+70°	474	7	31.9	+70	33.0	6.8 ✓
65	+71°	363	6	29.7	+71	29.8	8.7 ✓
66	+71°	365	6	32.8	+71	45.7	8.4 ✓
67	+71°	366	6	33.2	+71	9.4	9.0 ✓
68	+71°	368	6	39.6	+71	23.7	9.2 ✓
69	+71°	369	6	39.8	+71	39.4	9.3 ✓
70	+72°	338	6	38.9	+72	3.1	8.0 ✓
71	+71°	371	6	41.4	+71	56.3	8.7 ✓
72	+72°	341	6	42.0	+72	7.1	7.7 ✓
73	+71°	378	6	46.6	+71	56.8	7.7 ✓
74	+71°	381	6	48.4	+71	39.8	8.8 ✓
75	+71°	384	6	50.8	+71	25.7	9.4 ✓
76	+72°	347	6	52.1	+72	10.1	6.8 ✓
77	+72°	352	6	57.1	+72	2.6	6.4 ✓
78	+71°	388	7	0.1	+71	48.5	8.9 ✓
79	+72°	350	6	55.1	+72	53.3	7.5 ✓
80	+72°	354	6	59.7	+72	44.1	9.0 ✓
81	+72°	355	7	1.2	+72	31.1	9.0 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912

I 37559

Nr.	Int.	Class	Remark
82	4	F8	
83	1	K	
84	7	F0	
85	5	F0	Nearly all superposed on 84.
86	3	A	
87	8	A0	
88	1	K	
89	7	A5	
90	6	lyδ	
91	7	A2	
92	3	lyα	
93	6	F2	
94	1	lyδ	
95	6	F5	
96	6	lyδ	
97	4	K0	
98	5	A0	
99	3	F8	
100	2	K0	
101	3	A2	
102	2	K	
103	2	lyδ	
104	4	lyδ	
105	2	K	
106	1	F5	
107	3	lyδ	
108	2	ly	

82	+72°	357	7	2.5	+72	39.4	8.6	↓
83	+73°	373	7	5.8	+73	17.8	8.7	↓
84	+73°	375	7	9.0	+73	20.3	7.2	↓
85	+73°	376	7	9.2	+73	20.3	7.8	↓
86	+74°	321	7	7.6	+74	19.3	9.2	✓
87	+74°	322	7	7.9	+74	7.4	7.5	↓
88	+74°	323	7	8.6	+74	2.5	9.0	✓
89	+74°	324	7	10.7	+74	25.9	7.8	↓
90	+75°	304	7	12.0	+75	4.8	7.6	✓
91	+75°	305	7	12.9	+75	36.4	8.0	✓
92	+74°	326	7	14.4	+74	37.1	8.9	↓
93	+74°	327	7	15.9	+74	38.5	8.0	↓
94	+75°	309	7	17.0	+75	24.1	9.1	↓
95	+76°	284	7	19.8	+76	6.1	7.3	↓
96	+75°	312	7	23.2	+75	52.9	7.7	↓
97	+76°	292	7	25.3	+76	24.3	8.0	↓
98	+76°	293	7	26.0	+76	7.8	8.5	↓
99	+76°	296	7	29.3	+76	21.6	8.6	↓
100	+75°	314	7	31.3	+75	23.0	9.0	↓
101	+75°	316	7	33.4	+75	35.3	8.8	✓
102	+74°	336	7	32.2	+74	50.2	8.8	✓
103	+74°	331	7	25.4	+74	41.3	9.0	✓
104	+75°	321	7	43.4	+75	50.5	8.1	↓
105	+72°	335	6	31.8	+72	50.1	9.2	✓
106	approx	1855	6	43.9	+73	20		✓
107	+73°	359	6	45.8	+73	0.8	8.3	✓
108	+72°	345	6	47.4	+72	51.7	9.0	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912
I 37559

No.	Int.	Class	Remark
109	5	Iy^5	
110	3	K0	
111	1	Iy	
112	2	K0	
113	2	K2	
114	2	K0	
115	2	Iy^5	
116	3	A	
117	2	F8	
118	6	F8	
119	4	F0	
120	2	Iy	
121	1	Iy	
122	9	A2	
123	7	A0	
124	1	A	
125	2	Iy	
126	5	Iy^5	
127	2	Iy^5	
128	3	K2	
129	5	F0	
130	$\frac{1}{2}$ 4	Iy^5	
131	3	A2	
132	8	A3	
133	3	K0	
134	4	K0	
135	4	F5	

109	+73°	360	6	46.5	+73	37.3	7.5 ✓
110	+74°	306	6	42.0	+74	7.9	8.2 ✓
111	+73°	358	6	43.1	+73	49.6	9.0 ✓
112	+74°	308	6	43.0	+74	3.0	8.7 ✓
113	+74°	311	6	48.8	+74	40.0	8.5 ✓
114	+75°	285	6	49.4	+75	15.3	8.9 ✓
115	+75°	286	6	50.9	+75	1.5	8.8 ✓
116	+74°	314	6	53.3	+74	10.9	9.2 ✓
117	+73°	365	6	56.4	+73	53.1	9.5 ✓
118	+73°	366	6	58.2	+73	33.1	7.5 ✓
119	+75°	291	6	58.0	+75	25.6	8.3 ✓
120	+75°	292	6	58.2	+75	49.6	9.0 ✓
121	+75°	293	6	59.1	+75	33.4	9.3 ✓
122	+75°	296	7	2.8	+75	19.7	7.0 ✓
123	+75°	300	7	7.6	+75	52.2	7.7 ✓
124	+76°	276	7	10.5	+76	9.3	9.5 ✓
125	+76°	280	7	14.0	+76	18.5	9.1 ✓
126	+77°	286	7	10.6	+77	13.5	7.4 ✓
127	+77°	289	7	12.0	+77	20.7	8.9 ✓
128	+77°	290	7	15.6	+77	8.0	8.0 ✓
129	+77°	293	7	22.9	+77	5.1	8.2 ✓
130	+77°	297	7	28.2	+77	19.9	8.0 ✓
131	+77°	302	7	36.6	+77	59.1	9.0 ✓
132	+77°	303	7	37.0	+77	56.5	7.0 ✓
133	+78°	273	7	39.4	+78	0.9	7.7 ✓
134	+76°	258	6	46.4	+76	20.9	8.0 ✓
135	+77°	276	6	52.9	+77	16.4	8.5 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912.
I 37559

No.	Int.	Class	Remark
136	5	F2	
137	4	K0	
138	6	a	E.
139	3	a	
140	5	~~K0~~	E.
141	7	F	E.

Time: 10.45 ~~10.55~~

~~140~~	~~+78°~~	~~254~~	~~7~~	~~10.4~~	~~+78~~	~~59.6~~	~~6.8~~	~~J~~
142	+75°	281	6	44.7	+75	42.6	6.8	88 on I 37383
143	+77	266	6	38.8	+77	9	4.7	135 "

Extended

136	+78°	246	7	0.9	+78	9.6	7.0 √
137	+78°	250	7	3.2	+78	30.7	6.5 √
138	+78°	251	7	4.2	+78	18.6	7.0 I
139	+77°	284	7	6.9	+77	46.2	8.5 I
140	+78°	254	7	10.4	+78	59.6	6.8 J
141	+78°	240	~~7~~ 6	50.7	+78	58.6	6.7 √

Identified by AMC, June 5, 1912
Checked by J.C.M. June 10, 1912

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912.

Time: 10.58

I 37 441

No.	Int.	Class	Remark
1	7	K0	
2	6	K5	E.
3	1	A	E.
4	2	K0	E.
5	3	K5	
6	8	B8	
7	7	K2	
8	4	K0	
9	3	A	
10	4	K0	
11	2	A2	
12	7	K5	
13	4	B9	
14	3	B9	Lines rather sharp.
15	4	B9	
16	6	B9	Lines sharp.
17	3	B9	
18	3	B9	
19	3	A0	
20	5	K5	
21	8	A	Only light exam. Lines sharp. Maybe B8.
22	2	A2	
23	4	A0	E.
24	1	A	
25	2	K2	
26	4	F5	
27	6	B9	

1	+15°	1481	6	54.0	+15	32.4	6.0	✓
2	+16°	1363	6	54.2	+16	52.8	6.5	✓
3	+15°	1425	6	53.2	+15	52.6	9.0	✓
4	+16°	1357	6	52.9	+16	18.1	8.1	✓
5	+15°	1416	6	52.1	+15	29.3	6.9	✓
6	+15°	1412	6	52.0	+15	43.9	7.5	✓
7	+16°	1354	6	51.9	+16	16.2	6.0	✓
8	+16°	1352	6	51.5	+16	8.5	7.4	✓
9	+15°	1404	6	51.1	+15	45.5	8.4	✓
10	+16°	1346	6	50.8	+16	13.3	7.9	✓ +16° 1347 Superposed
11	+15°	1370	6	47.0	+15	51.5	8.4	✓
12	+16°	1326	6	46.3	+16	0.8	7.1	✓
13	+14°	1481	6	46.2	+14	48.2	8.1	✓
14	+15°	1359	6	45.0	+15	59.9	8.5	✓
15	+16°	1314	6	43.7	+16	11.2	8.5	✓
16	+16°	1313	6	43.5	+16	47.3	8.7	✓
17	+17°	1420	6	43.2	+17	5.2	8.7	✓
18	+15°	1340	6	42.6	+15	47.1	8.5	✓
19	+16°	1303	6	42.3	+16	22.6	8.8	✓
20	+16°	1300	6	41.8	+16	36.6	8.0	✓
21	+16°	1298	6	41.5	+16	22.1	6.5	✓
22	+15°	1330	6	40.9	+15	54.5	8.8	✓
23	+14°	1445	6	40.0	+14	45.0	7.9	✓
24	+15°	1320	6	39.4	+15	51.9	9.2	✓
25	+17°	1395	6	39.0	+17	7.0	8.0	✓
26	+17°	1393	6	38.8	+17	4.8	8.0	✓
27	+17°	1392	6	38.7	+17	16.1	7.5	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday May 22, 1912
I 3744'

No.	Int.	Class	Remark
28	8	Comp.	Bv. = F5. Ft. = A5.K = 0.6 M
29	3	A0	
30	2	A2	
31	2	A	E.
32	5	A0	
33	2	G	
34	3	F5	
35	1	G	
36	8	A0	
37	2	F	
38	2	F5	
39	1	F5	
40	2	F5	
41	2	A0	
42	4	A0	
43	10+	A0	
44	5	A0	
45	3	K0	
46	6	F5	
47	6	A0	
48	2	A2	
49	1	A	
50	1	A5	
51	1	A2	
52	3	K0	
53	2	A0	
54	7	B9	

28	+16°	1273	6	38.4	+16	55.3	7.1	J
29	+16°	1271	6	37.6	+16	25.8	8.4	V
30	+15°	1310	6	37.3	+15	57.4	8.3	J
31	+15°	1309	6	37.2	+15	37.3	8.3	J
32	+16°	1260	6	35.2	+16	55.2	7.2	J
33	+17°	1362	6	34.8	+17	8.1	8.8	V
34	+16°	1252	6	34.1	+16	50.8	8.9	V
35	+16°	1248	6	33.6	+16	53.8	8.7	V
36	+16°	1242	6	33.0	+16	31.8	7.3	J
37	+15°	~~1271~~ 1251	6	33.1	+15	33.4	7.8	V
38	+15°	1268	6	30.6	+15	20.1	7.8	J
39	+15°	~~1275~~ 1271	6	31.4 5	+15	~~55.1~~ 54.7	8.6 8	V
40	+16°	1239	6	32.6	+16	38.6	9.0	J
41	+16°	1235	6	31.7	+16	51.1	8.8	V
42	+16°	1226	6	29.6	+16	5.8	8.6	V
43	+16°	1223	6	29.4	+16	31.3	2.1	J
44	+15°	1255	6	28.2	+15	52.2	7.5	V
45	+16°	1209	6	27.5	+16	33.1	7.7	J
46	+16°	1210	6	27.6	+16	54.6	7.1	J
47	+17°	1307	6	27.5	+17	19.1	8.0	J
48	+17°	1317	6	28.5	+17	12.6	8.5	J
49	+17°	1326	6	29.5	+17	12.2	8.9	J
50	+17°	1312	6	27.9	+17	32.8	9.1	V
51	+17°	1358 11	6	27.8 7	+17	~~58.5~~ 49	~~4.4~~ 9.2	V
52	+17°	1306	6	27.4	+17	47.1	7.7	J
53	+18°	1267	6	26.3	+18	27.7	8.6	V
54	+16°	1202	6	26.6	+16	52.7	7.8	J

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912
I 37441

Nr.	Int.	Class	Remark
55	5	fg5	
56	3	A2	
57	3	A0	
58	1	A	
59	5	B8	Focus poor.
60	2	A	E.
61	3	A	E.
62	8	F8	
63	1	K	
64	2	K0	
65	5	Ma	E.
66	2	A0	E.
67	5	A2	
68	6	B9	
69	2	fg5	
70	7	B2	
71	5	K0	
72	1	K	
73	2	K2	
74	5	B9	
75	5	A5	
76	5	B8	
77	1	A5	
78	2	F5	Difficult.
79	2	A	
80	1	F5	Look up.
81	4	A0	

55	+16°	1201	6	26.6	+16	18.4	7.3 ✓
56	+16°	1198	6	26.4	+16	29.4	8.2 ✓
57	+16°	1193	6	26.0	+16	45.7	8.8 ✓
58	+17°	1298	6	25.9	+17	19.9	9.1 ✓
59	+17°	1291	6	24.7	+17	3.1	8.2 ✓
60	+17°	1288	6	24.3	+17	8.1	8.0 ✓
61	+17°	1287	6	24.1	+17	44.7	8.5 ✓
62	+17°	1286	6	23.9	+17	52.9	6.8 ✓
63	+17°	1284	6	23.6	+17	46.1	8.5 ✓
64	+17°	1277	6	23.0	+17	30.8	7.5 ✓
65	+17°	1479	6	54.0	+17	57.1	6.0 ✓
66	+17°	1478	6	53.9	+17	49.6	9.0 ✓
67	+18°	1451	6	53.3	+18	10.6	7.5 ✓
68	+17°	1469	6	52.3	+17	9.5	7.8 ✓
69	+17°	1464	6	51.0	+17	42.8	8.5 ✓
70	+18°	1423	6	49.3	+18	5.3	7.1 ✓
71	+17°	1447	6	47.8	+17	55.8	7.0 ✓
72	+17°	1442	6	46.8	+17	8.9	8.6 ✓
73	+17°	1441	6	46.2	+17	51.7	8.4 ✓
74	+18°	1408	6	47.7	+18	59.1	7.7 ✓
75	+18°	1405	6	47.4	+18	40.3	7.9 ✓
76	+19°	1525	6	45.8	+19	46.0	8.3 ✓
77	+19°	1521	6	44.9	+19	26.5	7.8 ✓
78	+19°	1519	6	44.6	+19	36.8	9.0 ✓
79	+18°	1371	6	42.9	+18	50.2	9.0 ✓
80	+19°	1502	6	42.3	+19	15.8	9.1 ✓
81	+19°	1498	6	42.0	+19	27.6	8.2

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday May 22 1912

I 37441

No.	Int.	Class	Remark
82	2	A	
83	4	A0	
84	3	F	
85	5	F0	
86	2	K0	
87	1	K2	
88	2	A	
89	9	A0	
90	6	A2	
91	2	A2	
92	7	B9	
93	4	F0	
94	4	B3	
95	6	F8	
96	8	A0	
97	4	B9	
98	2	A	
99	4	F5	
100	5	B9	
101	7	A3	
102	3	A2	Partly superposed on 101.
103	10	A0	
Time 11.21	104	1	A
" 12.50	105	2	A3
	106	3	B8 Difficult
	107	2	A2
	108	2	A

82	+19°	1496	6	41.6	+19	21.7	8.5 ✓
83	+19°	1492	6	41.1	+19	19.5	7.9 ✓
84	+18°	1365	6	41.7	+18	57.4	8.0 ✓
85	+18°	1362	6	41.4	+18	8.8	7.5 ✓
86	+17°	1409	6	41.7	+17	45.1	8.3 ✓
87	+17°	1422	6	43.3	+17	50.2	8.3 ✓
88	+17°	1406	6	40.7	+17	14.8	8.8 ✓
89	+18°	1349	6	38.9	+18	20.7	6.5 ✓
90	+18°	1348	6	38.9	+18	28.1	7.8 ✓
91	+18°	1339	6	37.9	+18	21.0	8.3 ✓
92	+18°	1338	6	37.8	+18	59.1	6.9 ✓
93	+19°	1460	6	36.3	+19	40.2	8.2 ✓
94	+20°	1550	6	36.1	+20	7.6	7.9 ✓
95	+20°	1552	6	36.3	+20	59.9	7.1 ✓
96	+20°	1549	6	35.9	+20	49.8	7.1 ✓
97	+20°	1541	6	34.4	+20	6.6	8.5 ✓
98	+19°	1447	6	34.4	+19	17.3	9.1 ✓
99	+18°	1326	6	35.8	+18	48.4	7.9 ✓
100	+18°	1324	6	34.9	+18	16.7	7.3 ✓
101	+18°	1322	6	34.7	+18	5.8	8.0 ✓
102	+17°	1360	6	34.7	+17	59.2	8.5 ✓
103	+17°	1357	6	34.0	+17	46.8	5.5 ✓
104	+17°	1348	6	36.5	+17	52.2	9.0 ✓
105	+18°	1330	6	36.3	+18	13.5	8.8 ✓
106	+18°	1313	6	33.7	+18	55.2	8.4 ✓
107	+18°	1309	6	33.1	+18	49.6	8.5 ✓
108	+18°	1304	6	32.7	+18	42.5	8.6 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912

I 37441

No.	Int	Class	Remark
109	1	Ky	
110	2	$F8$	
111	3	A_2	
112	4	K_0	
113	6	K_0	
114	2	A	
115	4	F_0	
116	6	Bq	
117	6	$F8$	
118	5	A	Pently surface passed on 119
119	4	Bq	
120	1	Ky	
121	2	A	
122	7	$B8$	
123	1	K	
124	3	K_0	
125	2	K_0	
126	2	A_2	
127	5	A_0	
128	8	A_0	
129	5	$B8$	
130	1	A	
130a	1	K	
131	1	A_2	
132	2	Ky	
133	1	K	
134	5	A_0	
135	2	Ky	E_1

109	+19°	1439	6	32.9	+19	3.8	8.8 ✓
110	+19°	1438	6	32.7	+19	32.4	9.1 ✓
111	+19°	1433	6	31.8	+19	32.4	8.7 ✓
112	+19°	1429	6	31.4	+19	26.3	8.0 ✓
113	+19°	1430	6	31.5	+19	47.6	7.5 ✓
114	+19°	1428	6	31.3	+19	59.7	9.2 ✓
115	+19°	1424	6	30.5	+19	43.4	8.2 ✓
116	+17°	1352	6	33.2	+17	51.9	8.3 ✓
117	+17°	1346	6	32.2	+17	46.4	8.2 ✓
118	+17°	1339	6	31.2	+17	36.7	8.7 ✓
119	+17°	1338	6	31.1	+17	49.0	8.4 ✓
120	+17°	1333	6	30.6	+17	54.2	8.6 ✓
121	+17°	1331	6	30.4	+17	39.2	9.2 ✓
122	+18°	1288	6	29.3	+18	31.2	7.5 ✓
123	+19°	1415	6	29.4	+19	32.7	8.5 ✓
124	+19°	1406	6	28.5	+19	16.3	7.8 ✓
125	+19°	1394	6	27.1	+19	6.9	7.8 ✓
126	+19°	1404	6	28.1	+19	49.2	8.8 ✓
127	+19°	1400	6	27.6	+19	40.5	8.3 ✓
128	+19°	1391	6	26.1	+19	32.0	7.2 ✓
129	+19°	1387	6	24.7	+19	57.0	8.3 ✓
130	+18°	1255	6	24.8	+18	53.8	9.2 ✓
130a	+18°	1256	6	24.8	+18	53.1	9.0
131	+19°	1386	6	24.4	+19	9.1	9.0 ✓
132	+19°	1381	6	23.5	+19	48.8	8.2 ✓
133	+20°	1468	6	23.4	+20	0.9	8.4 ✓
134	+20°	1454	6	22.1	+20	30.9	8.0 ✓
135	+20°	1449	6	21.7	+20	13.3	8.8 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912.
H 37441

No.	Int.	Class	Remark
136	2	A2	
137	2	A3	
138	5	A0	
139	2	A2	
140	5	ly	
141	4	A0	
142	1	Ma	Another star superposed?
143	1	ly	
144	1	A0?	
145	5	F2	
146	3	A2	
147	3	Bq	
148	5	B8	
149	1	K2	
150	4	F0	
151	4	A5	
152	1	F	
153	4	A	Partly superposed on 154.
154	3	A3	
155	2	A	
156	6	A3	
157	5	A3	
158	2	F5	
159	4	A0	E.
160	2	F	E.
161	3	K0	
162	7	A	

136	+20°	1459	6	21.8	+20	50.7	8.7	✓
137	+20°	1536	6	33.8	+20	50.8	8.7	✓
138	+20°	1531	6	32.7	+20	6.1	7.9	✓
139	+19°	1435	6	32.5	+19	54.3	9.2	✓
140	+20°	1528	6	32.4	+20	46.4	7.6	✓
141	+21°	1329	6	32.1	+21	4.2	8.4	✓
142	+20°	1521	6	31.4	+20	36.7	8.0	✓
143	+19°	1418	6	29.5	+19	59.5	8.7	✓
144	+20°	1508	6	29.2	+20	4.3	9.0	✓
145	+20°	1496	6	27.0	+20	59.6	8.0	✓
146	+21°	1304	6	26.0	+21	45.8	8.8	✓
147	+21°	1300	6	27.8	+21	25.2	8.7	✓
148	+21°	1292	6	26.8	+21	32.4	8.5	✓
149	+21°	1288	6	25.8	+21	31.9	8.6	✓
150	+21°	1287	6	25.7	+21	32.9	8.3	✓
151	+21°	1284	6	25.1	+21	9.6	8.6	✓
152	+20°	1479	6	24.8	+20	58.4	9.0	✓
153	+21°	1280	6	24.2	+21	31.4	8.3	✓
154	+21°	1281	6	24.2	+21	46.0	8.4	✓
155	+21°	1276	6	23.7	+21	32.5	8.5	✓
156	+22°	1386	6	25.4	+22	13.9	8.0	✓
157	+22°	1384	6	25.3	+22	18.3	8.0	✓
158	+22°	1383	6	25.2	+22	26.7	8.7	✓
159	+20°	1671	6	53.2	+20	15.0	8.0	✓
160	+20°	1665	4	52.4	+20	17.1	8.7	✓
161	+19°	1576	6	52.6	+19	24.7	8.0	✓
162	+18°	1441	6	51.8	+18	51.8	9.0	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912.
I 37 441

No.	Int.	Class	Remark
163	2	A3	Another star partly superposed
164	3	K2	E.
165	6	A5	
166	1	K	
167	3	F0	
168	8	B9	
169	3	A0	
170	1	G5	
171	8	B8	
172	3	A	Two stars superposed ?
173	3	A0	
174	8	B9	
175	6	G5	
176	2	F5	
177	3	A2	
178	2	K	Another star superposed ?
179	3	A0	
180	1	K	
181	1	G5	
182	1	A	
183	7	B8	
184	2	A	
185	2	G5	
186	7	B9	
187	3	F8	
188	5	Ma	
189	6	K0	

163	+18°	1435	6	50.7	+18	54.8	8.5 ✓
164	+19°	1559	6	50.0	+19	24.9	7.4 ✓
165	+19°	1552	6	49.0	+19	55.0	7.7 ✓
166	+19°	1548	6	48.8	+19	41.0	8.4 ✓
167	+19°	1546	6	48.5	+19	39.3	8.3 ✓
168	+20°	1651	6	49.2	+20	39.5	7.8 ✓
169	+20°	1644	6	48.6	+20	40.8	8.9 ✓
170	+20°	1640	6	48.4	+20	44.0	9.2 ✓
171	+21°	1437	6	48.2	+21	9.1	7.8 ✓
172	+20°	1633	6	47.5	+20	16.4	8.8 ✓
173	+21°	1431	6	46.5	+21	46.8	8.8 ✓
174	+21°	1428	6	46.3	+21	44.4	7.4 ✓
175	+21°	1426	6	46.7	+21	20.2	7.3 ✓
176	+21°	1422	6	45.1	+21	7.8	9.0 ✓
177	+20°	1608	6	44.2	+20	32.5	8.8 ✓
178	+20°	1598	6	43.2	+20	29.9	8.5 ✓
179	+20°	1590	6	42.3	+20	57.7	8.5 ✓
180	+20°	1589	6	42.3	+20	9.2	8.3 ✓
181	+20°	1587	6	41.9	+20	7.7	8.3 ✓
182	+19°	1499	6	42.1	+19	45.9	8.9 ✓
183	+20°	1578	6	40.3	+20	43.3	7.5 ✓
184	+20°	1574	6	39.7	+20	14.7	8.8 ✓
185	+20°	1567	6	38.5	+20	56.0	8.6 ✓
186	+20°	1562	6	37.8	+20	51.2	8.0 ✓
187	+21°	1388	6	40.2	+21	30.6	8.0 ✓
188	+21°	1383	6	39.1	+21	50.7	7.6 ✓
189	+22°	1473	6	38.5	+22	20.7	7.2 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912.

I 3744

No.	Int.	Class	Remark
190	8	ly_5	
191	8	A_2	
192	2	A	
193	2	B_8	
194	1	A_0	
195	3	B_9	
196	2	A_0	
197	8	K_0	
198	1	K	
199	1	ly_5	
200	7	A_0	
201	2	K_2	
202	8	A_0	
203	6	K_0	
204	4	A_2	
205	3	ly_5	
206	3	A	E.
207	3	F_5	E.
208	2	A_2	
209	1	ly_5	
210	3	A_5	
211	3	A_0	
212	2	K_0	
213	6	ly_5	
214	3	ly_0	
215	2	A	
216	5	A_2	

190	+23°	1491	6	37.4	+23	30.9	7.3 ✓
191	+22°	1456	6	36.2	+22	58.6	7.2 ✓
192	+21°	1352	6	34.8	+21	41.8 42.1	9.0 ✓
193	+21°	1348	6	34.3	+21	43.6	9.1 ✓
194	+21°	1339	6	33.1	+21	19.2	8.8 ✓
195	+22°	1424	6	31.1	+22	20.6	8.8 ✓
196	+22°	1421	6	30.8	+22	7.3	8.6 ✓
197	+22°	1416	6	30.4	+22	9.1	7.0 ✓
198	+21°	1312	6	29.6	+21	58.6	8.3 ✓
199	+21°	1308	6	28.9	+21	49.6	8.7 ✓
200	+22°	1408	6	28.8	+22	15.7	7.8 ✓
201	+22°	1410	6	28.9	+22	49.5	7.7 ✓
202	+23°	1425	6	27.9	+23	12.6	7.4 ✓
203	+23°	1433	6	29.1	+23	48.3	7.3 ✓
204	+21°	1472	6	53.6	+21	1.8	7.9 ✓
205	+22°	1558	6	53.6	+22	17.5	7.0 ✓
206	+21°	1471	6	53.4	+21	59.9	8.0 ✓
207	+22°	1553	6	53.2	+22	15.0	7.7 ✓
208	+21°	1469	6	50.9	+21	13.4	8.5 ✓
209	+20°	1661	6	50.8	+20	38.2	8.2 ✓
210	+21°	1455	6	50.3	+21	15.4	8.2 ✓
211	+21°	1448	6	49.5	+21	17.3	8.7 ✓
212	+21°	1453	6	50.2	+21	48.5	7.9 ✓
213	+22°	1531	6	49.5	+22	39.5	7.3 ✓
214	+23°	1554	6	49.0	+23	4.9	8.0 ✓
215	+23°	1550 1553	6	48.8 48.4	+23	32.4 23.7	8.8 8.8 ✓
216	+22°	1516	6	46.3	+22	43.8	7.9 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Wednesday, May 22, 1912.

Ξ 37741

No.	Int.	Class	Remark
217	2	K0	
218	10	A0	
219	2	A3	
220	3	F0	
221	7	Bq	
222	3	A0	
223	8	A0	
224	3	G5	
225	3	F5	
226	3	K2	
227	3	F	E.
228	3	F5	
229	2	A	
230	5	F5	
231	8	F5	
232	6	F	E.
233	8	A	E.
234	2	A	
235	2	A	
236	7	Ma	Focus poor. Maybe K5.
237	2	G5	
238	4	A	

Time: 1.10

217	+21°	1419	6	44.7	+21	53.8	8.5	V
218	+21°	1405	6	42.9	+21	56.2	6.0	J
219	+21°	1399	6	42.5	+21	34.9	8.9	J
220	+22°	1490	6	41.1	+22	13.9	8.4	V
221	+22°	1484	6	40.5	+22	27.9	7.5	J
222	+22°	1487	6	40.9	+22	59.9	8.7	V
223	+23°	~~1404~~ 1504	6	40.4	+23	21.5	7.6	V
224	+23°	1499	6	39.5	+23	23.5	8.0	J
225	+23°	1494	6	38.0	+23	50.0	8.2	J
226	+23°	1486	6	36.6	+23	47.5	7.6	J
227	+24°	1390	6	36.8	+24	16.1	8.2	J
228	+23°	1467	6	34.1	+23	21.4	8.2	V
229	+23°	1455	6	32.1	+23	18.0	8.7	V
230	+23°	1446	6	31.3	+23	48.2	7.8	J
231	+24°	1343	6	30.6	+24	43.3	6.8	V
232	+24°	1338 2	6	29.4	+24	34.4	7.0	J
233	+24°	1328	6	28.6	+24	42.1	6.7	J
234	+23°	1523	6	44.5	+23	23.8	8.9	J
235	+23°	1520	6	43.9	+23	11.6	8.9	J
236	+23°	1518	6	43.2	+23	47.2	6.5	J
237	+23°	1513	6	42.6	+23	32.0	8.5	V
238	+23°	1509	6	41.8	+23	49.7	8.5	J

Identified by Anc. June 6, 1912

Checked by J. C. M. June 15, 1912

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Thursday May 23 1918

B 41079 short disp.

Time: 10.30

Nr.	Int.	Class	Remark
1	4	F5	E.
2	3	K2	E.
3	3	dy5	E.
4	8	Ma	E.
5	10	F5	E.
6	2	K0	E.
7	3	dy	E.
8	2	K2	E.
9	5	F5	E.
10	7	K2	
11	3	dy0	
12	5	K0	
13	2	K0	
14	10	dy5	
15	10	dy5	
16	7	F5	
17	8	F0	
18	8	K0	
19	4	K0	
20	6	F8	
21	2	K2	
22	2	K2	
23	7	dy0	
24	6	A	
25	1	A	
26	1	dy	
27	2	F8	

1	−37°	887	2	16.2	−37	35.0	8.0 ✓
2	−37°	899	2	17.6	−37	3.5	8.2 ✓
3	−37°	913	2	19.1	−37	28.4	8.5 ✓
4	−38°	797	2	17.9	−38	9.0	6.6 ✓
5	−37°	915	2	19.3	−37	55.7	6.6 ✓
6	−37°	922	2	20.6	−37	52.1	8.6 ✓
7	−36°	918	2	21.7	−36	48.5	8.5 ✓
8	−36°	920	2	21.9	−36	44.0	8.7 ✓
9	−37°	934	2	22.6	−37	15.4	8.4 ✓
10	−36°	930	2	23.1	−36	54.0	7.4 ✓
11	−36°	935	2	23.7	−36	14.5	8.7 ✓
12	−36°	937	2	24.2	−36	30.2	7.7 ✓
13	−36°	938	2	24.3	−36	42.0	8.7 ✓
14	−36°	957	2	27.1	−36	59.0	6.4 ✓
15	−35°	877	2	27.9	−35	12.1	6.0 ✓
16	−33°	849	2	25.0	−33	39.9	8.3 ✓
17	−33°	852	2	25.5	−33	33.4	7.5 ✓
18	−33°	860	2	26.9	−33	9.4	6.9 ✓
19	−33°	866	2	28.3	−33	23.0	7.7 ✓
20	−33°	870	2	28.9	−33	39.9	7.7 ✓
21	−33°	871	2	29.1	−33	15.4	8.5 ✓
22	−33°	874	2	29.4	−33	0.8	8.6 ✓
23	−32°	929	2	28.6	−32	46.3	7.5 ✓
24	−32°	955	2	31.3	−32	23.9	8.3 ✓
25	−32°	954	2	31.3	−32	45.3	9.6 ✓
26	−32°	961	2	32.0	−32	50.3	9.3 ✓
27	−32°	964	2	32.3	−32	48.9	9.2 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912
B 41079 short disp.

Nr.	Int.	Class	Remark
28	4	F8	
29	6	F5	
30	2	G5	
31	7	F2	
32	3	K0	
33	6	K0	
34	1	K	
35	4	F8	
36	2	F5	
37	1	G	
38	10	G0	
39	2	K2	
40	2	G0	
41	4	K0	
42	6	K0	
43	3	K0	
44	8	K0	
45	1	K	
46	7	Ma	
47	4	G5	
48	3	F	E.
49	3	G5	E.
50	5	K0	E.
51	7	K0	
52	3	F5	
53	3	G0	
54	1	K	

28	− 32°	968	2	33.1	− 32	36.5	8.5	✓
29	− 33°	893	2	31.7	− 33	14.0	8.7	✓
30	− 33°	894	2	31.9	− 33	27.4	8.9	✓
31	− 33°	896	2	32.2	− 33	37.4	8.5	✓
32	− 34°	952	2	32.1	− 34	11.7	8.9	✓
33	− 34°	956	2	32.7	− 34	13.0	7.3	✓
34	− 34°	944	2	29.8	− 34	4.8	9.0	✓
35	− 34°	939	2	29.2	− 34	24.0	8.3	✓
36	− 34°	939	2	29.2	− 34	24.0	8.3	✓
37	− 34°	942	2	29.3	− 34	40.7	8.9	✓
38	− 35°	903	2	31.8	− 35	6.7	5.9	✓
39	− 35°	909	2	32.5	− 35	4.1	8.9	✓
40	− 35°	915	2	33.4	− 35	28.1	9.0	✓
41	− 35°	919	2	34.4	− 35	2.7	8.0	✓
42	− 35°	920	2	34.6	− 35	33.7	7.5	✓
43	− 36°	1007	2	34.7	− 36	8.0	8.0	✓
44	− 35°	902	2	31.7	− 35	52.0	7.2	✓
45	− 35°	904	2	32.0	− 35	31.7	8.9	✓
46	− 36°	991	2	31.6	− 36	22.2	7.5	✓
47	− 36°	997	2	32.5	− 36	42.2	8.3	✓
48	− 37°	983	2	32.5	− 37	30.9	8.3	✓
49	− 37°	992	2	34.3	− 37	28.4	8.6	✓
50	− 37°	995	2	34.6	− 37	25.4	8.1	✓
51	− 37°	1003	2	35.4	− 37	1.9	7.7	✓
52	− 36°	1024	2	37.0	− 36	47.4	8.7	✓
53	− 36°	1017	2	35.9	− 36	25.7	8.9	✓
54	− 36°	1022	2	36.6	− 36	8.4	6.8	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912
B 4107 9 short disps

No	Int.	Class	Remark
55	8	A2	
56	6	ly0	
57	3	ly0	
58	8	K0	
59	3	K0	
60	4	F5	
61	2	F2	
62	5	A0	
63	10	A	
64	8	ly5	
65	4	ly5	
66	4	ly5	
67	7	ly0	
68	3	ly0	
69	2	F5	
70	7	A	
71	4	F5	
72	2	K0	E.
73	4	K0	
74	2	F8	
75	6	Ma	
76	10	ly5	
77	2	ly0	
78	1	ly	
79	2	F5	
80	3	Ma	
81	3	K0	

55	− 35°	930	2	36.9	− 35	21.8	8.1	✓
56	− 34°	968	2	34.6	− 34	25.7	8.3	✓
57	− 34°	977	2	36.6	− 34	44.3	9.0	✓
58	− 34°	985	2	38.2	− 34	37.3	7.5	✓
59	− 34°	981	2	37.4	− 34	19.7	8.8	✓
60	− 33°	920	2	36.3	− 33	38.4	8.7	✓
61	− 33°	916	2	35.6	− 33	12.3	9.0	✓
62	− 32°	990	2	39.0	− 32	27.5	8.5	✓
63	− 33°	943	2	39.1	− 33	3.1	6.4	✓
64	− 33°	939	2	38.4	− 33	35.3	6.9	✓
65	− 33°	942	2	38.8	− 33	42.2	7.5	✓
66	− 34°	999	2	40.4	− 34	23.2	8.0	✓
67	− 34°	1000	2	40.5	− 34	24.2	8.5	✓
68	− 34°	1005	2	41.3	− 34	29.2	8.8	✓
69	− 34°	1009	2	42.0	− 34	45.3	9.0	✓
70	− 35°	954	2	41.2	− 35	26.0	8.3	✓
71	− 35°	957	2	41.4	− 35	18.7	8.5	✓
72	− 35°	964	2	42.2	− 35	18.4	9.0	✓
73	− 30°	863	2	19.6	− 30	55.0	8.5	✓
74	− 31°	958	2	18.6	− 31	39.4	8.7	✓
75	− 31°	984	2	22.6	− 31	0.7	7.0	✓
76	− 31°	990	2	23.2	− 31	40.1	6.4	✓
77	− 31°	992	2	23.3	− 31	47.4	8.7	✓
78	− 32°	892	2	28.3	− 32	1.9	9.0	✓
79	− 32°	895	2	28.8	− 32	11.9	8.7	✓
80	− 31°	1010	2	28.2	− 31	50.2	8.0	✓
81	− 31°	1019	2	26.6	− 31	59.6	8.3	✓
~~82~~	~~− 30°~~	~~910~~	~~2~~	~~26.7~~	~~− 30~~	~~0.6~~	~~8.4~~	

C.P.D. −31°291 2 26 40.0 − 31 59.8 8.8 only one plate in C.P.D. Arcturus −31°1019

Due to error in ΔDm, ? Please do not quote until confirmed.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912

B 41079 short disp.

	Nr.	Int.	Class	Remark
	82	4	K0	
	83	4	fg0	
	84	8	F0	
	85	3	fg0	
10.45	86	5	F0	
10.54	87	6	A2	
	88	2	A5	
	89	9	F5	
	90	8	fg0	
	91	2	F8	
	92	5	A0	
	93	2	A0	
	94	8	fg0	
	95	1	K	
	96	8	F5	
	97	10+	fg	Burned out.
	98	5	fg5	E.
	99	8	fg5	E.
	100	3	fg	E.
	101	7	fg0	
	102	2	fg	
	103	2	K	
	104	2	K2	
	105	8	F8	
	106	1	K	
	107	2	K0	
	108	2	fg0	

82 − 32°	914	2	26.2	− 32	35.8	8.3	✓
83 − 32°	927	2	27.9	− 32	16.2	8.3	✓
84 − 32°	934	2	28.8	− 32	4.4	7.5	✓
85 − 31°	1042	2	29.3	− 31	52.0	8.6	✓
86 − 31°	1062	2	31.7	− 31	28.8	7.9	✓
87 − 32°	959	2	32.0	− 32	2.0	8.8	✓
88 − 31°	1067	2	32.9	− 31	57.7	8.7	✓
89 − 32°	977	2	35.2	− 32	0.2	7.4	✓
90 − 31°	1099	2	37.7	− 31	35.9	7.3	✓
91 − 31°	1106	2	38.6	− 31	35.9	8.7	✓
92 − 31°	1118	2	40.7	− 31	56.4	8.5	✓
93 − 32°	1002	2	40.7	− 32	25.1	9.0	✓
94 − 33°	957	2	41.4	− 33	3.6	8.3	✓
95 − 32°	1009	2	42.2	− 32	57.0	8.9	✓
96 − 32°	1012	2	42.8	− 32	49.0	8.3	✓
97 − 32°	1025	2	43.8	− 32	56.1	4.5	✓
98 − 32°	1027	2	44.1	− 32	53.2	8.5	✓
99 − 31°	1128	2	42.9	− 31	56.5	7.3	✓
100 − 32°	1023	2	43.6	− 32	5.2	8.7	✓
101 − 31°	1117	2	40.6	− 31	0.8	7.3	✓
102 − 30°	894	2	23.6	− 30	58.7	9.1	✓
103 − 30°	897	2	23.8	− 30	27.0	9.0	✓
104 − 30°	906	2	24.6	− 30	18.0	8.8	✓
105 − 30°	909	2	25.0	− 30	54.8	7.7	✓
106 − 30°	919	2	25.8	− 30	55.0	9.0	✓
107 − 30°	927	2	26.4	− 30	33.7	9.0	✓
108 − 31°	1073	2	27.0	− 31	4.2	9.2	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday. May 23, 1912.
B4107 & hot disp.

No.	Int.	Class	Remark
109	5	A3	
110	2	ly5	
111	3	ly0	
112	2	K0	
113	1	ly	
114	9	K5	
115	7	K8	
116	10	ly5	
117	2	ly5	
118	10	K5	
119	2	ly0	
120	5	K0	
121	8	ly5	
122	5	ly0	
123	4	K5	
124	2	ly0	
125	6	ly5	
126	4	K0	
127	5	K2	
Time: 11.03	128	6	K8
	129		
	130		
	129	2	K5

109	−31°	1017	2	26.5	−31	30.4	8.5
110	−31°	1029	2	27.9	−31	13.1	8.7
111	−31°	1038	2	28.9	−31	5.4	8.9
112	−31°	1040	2	29.0	−31	14.4	8.5
113	−31°	1048	2	29.4	−31	4.8	8.9
114	−30°	941	2	28.4	−30	29.4	7.5
115	−30°	947	2	29.1	−30	29.8	8.0
116	−30°	958	2	30.8	−30	35.6	5.7
117	−30°	960	2	31.0	−30	51.8	8.8
118	−30°	973	2	32.9	−30	43.9	5.7
119	−30°	974	2	33.1	−30	51.3	9.3
120	−31°	1072	2	33.4	−31	8.4	7.5
121	−31°	1081	2	34.7	−31	10.4	6.6
122	−30°	990	2	35.2	−30	40.6	8.0
123	−30°	998	2	36.3	−30	35.6	7.5
124	−30°	999	2	36.3	−30	51.3	8.7
125	−30°	1000	2	36.5	−30	56.3	7.7
126	−29°	928	2	28.4	−29	58.0	8.0
127	−29°	912	2	25.6	−29	20.5	8.0
128	−29°	905	2	25.0	−29	11.6	8.1

Identified by ANC June 7, 1912
Checked by J. C. M. June 19, 1912

129	−30	1027	2	40.2	−30	24	8.5	K8 on B122442

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912

Time: 11.05

B 12242 short disp.

No.	Int.	Class	Remark
1	2	Ly5	
2	4	Ly5	
3	4	Ly0	
4	8	B9	
5	8	A0	
6	4	K0	
7	10+	A	Burned out.
8	2	A	Maybe a trail of 7.
9	7	A0	
10	3	Ly5	
11	5	Ly0	
12	2	Ly0	
13	7	Ly0	
14	3	Ly0	
15	2	F5	
16	4	F5	
17	6	K0	
18	2	Ly5	
19	2	Ly0	
20	3	F5	
21	5	A3	
22	9	Ly0	
23	5	Ly5	
24	4	F8	
25	4	K0	
26	4	F5	
27	3	K0	

1	−28°	784	2i	21.9	−28	11.8	8.6
2	−27°	871	2i	23.7	−27	49.0	8.1
3	−27°	869	2i	23.6	−27	58.0	8.3
4	−28°	800	2i	26.0	−28	3.8	7.2
5	−27°	882	2i	27.0	−27	33.4	7.4
6	−28°	803	2i	26.7	−28	20.5	7.4
7	−28°	819	2i	28.4	−28	47.7	4.9
8	Trail of −28° 819						
9	−29°	935	2i	29.7	−29	14.8	7.8
10	−28°	826	2i	29.9	−28	35.5	8.4
11	−28°	832	2i	30.7	−28	46.2	8.3
12	−29°	945	2i	30.7	−29	28.5	8.9
13	−29°	951	2i	31.7	−29	32.5	7.4
14	−29°	955	2i	32.3	−29	51.8	8.3
15	−28°	847	2i	33.4	−28	41.7	8.6
16	−28°	850	2i	33.7	−28	50.3	8.5
17	−28°	848	2i	33.6	−28	21.3	7.3
18	−28°	853	2i	34.5	−28	36.3	8.3
19	−28°	863	2i	36.1	−28	3.3	8.0
20	−27°	946	2i	36.7	−27	53.2	8.3
21	−28°	869	2i	36.5	−28	28.5	8.5
22	−28°	870	2i	37.4	−28	40.8	7.2
23	−28°	875	2i	38.3	−28	25.5	7.0
24	−28°	878	2i	38.5	−28	58.0	8.6
25	−29°	1001	2i	38.4	−29	20.5	7.9
26	−29°	984	2i	36.5	−29	6.5	8.3
27	−29°	1008	2i	40.5	−29	11.5	8.4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday. May 23, 1912
B 1224 2 short disp.

No.	Int.	Class	Remark
28	2	N	
29	5	a	
30	3	a	
31	3	g	
32	4	F8	
Time: 11.14 33	4	F2	
34			

28	- 30°	1027	2	40.2	- 30	24.3	8.5	✓
29	- 27°	957	2	37.9	- 27	2.7	8.3	✓
30	- 26°	1000	2	39.2	- 26	44.4	9.1	✓
31	- 26°	957	2	33.6	- 26	50.5	8.6	✓
32	- 27°	900	2	30.2	- 27	14.8	8.3	✓
33	- 26°	915	2	27.7	- 26	50.8	7.5	✓

Identified by AMC June 7, 1912
Checked by J.C.M. June 26, 1912.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912

Time: 11.14

I 37560

No.	Int.	Class	Remark
1	6	g_5	E.
2	6	G	E.
3	6	G	E.
4	2	K	E.
5	5	G	E.
6	4	g_5	E.
7	6	g	E.
8	4	G	E.
9	3	G	E.
10	6	G_2	E.
11	4	G	
12			
13			
14			
15			

Plate found to be too poor.

Doubt identify. Wait for better plate. A.J.C.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23. 1912

B 2048 shot disp.

Time: 11.16

No.	Int.	Class	Remarks
1	5	F8	
2	2	K0	
3	10	A0	
4	1:	K	
5	1	K	
6	1	G0	
7	3	K2	
8	8	F8	
9	5	G5	
10	8	F0	
11	3	K2	
12	10	F0	
13	10	F8	
14	10	A0	
15	5	K0	
16	8	F5	another star superposed? yes
17	9	F5	
18	3	K0	
19	4	K0	
20	4	K0	
21	5	A5	
22	8	K0	
23	10+	K	Burned out.
24	7	F5	
25	9	Ma	
26	4	F0	
27	6	A5	

1	−25°	1317	3	8.1	−25	20.2	8.0	∧ ∫
2	−25°	1332	3	10.4	−25	37.2	8.1	∧ ∫
3	−26°	1210	3	9.6	−26	34.2	6.3	∧ ∫
4	−26°	1207	3	9.4 8.8	−26	54.9 54.4	8.9 9.1	∧ ∨
5	−26°	1215	3	10.5	−26	51.4	8.8	∧ ∫
6	−26°	1218 6	3	10.5	−26	57.9	9.1	∧ ∫
7	−26°	1222	3	11.1	−26	58.0	8.5	∧ ∨
8	−26°	1228	3	12.5	−26	48.7	7.5	∧ ∫
9	−25°	1353	3	13.3	−25	53.2	8.3	∧ ∫
10	−26°	1240	3	14.2	−26	2.1	7.9	∧ ∫
11	−26°	1248	3	15.7	−26	36.7	8.1	∧ ∫
12	−26°	1246	3	15.4	−26	45.2	7.0	∧ ∫
13	−27°	1183	3	15.4	−27	3.3	6.6	∧ ∫
14	−26°	1257	3	16.9	−26	1.8	6.5	∧ ∫
15	−26°	1262 7	3	17.8	−26	34.2	8.2	∧ ∫
16	−26°	1281	3	18.7	−26	28.4	8.0	∧ ∫
17	−26°	1270 69	3	18 6/7	−26	39.7 39.7	8.4 8.4	∧ ∫
18	−26°	1276	3	19.3	−26	35.4	8.8	∧ ∫
19	−26°	1277	3	19.5	−26	11.4	8.3	∧ ∨
20	−26°	1281	3	20.0	−26	24.0	8.5	∧ ∫
21	−25°	1391	3	18.5	−25	40.7	8.4	∧ ∫
22	−24°	1627	3	18.8	−24	44.9	7.5	∧ ∫
23	−24°	1600	3	15.9	−24	4.5	6.7	∧ ∫
24	−24°	1586	3	15.0	−24	34.2	8.0	∧ ∫
25	−24°	1578	3	14.1	−24	34.5	5.9	∧ ∨
26	−24°	1577	3	14.1	−24	56.6	9.1	∧ ∫
27	−24°	1569	3	13.0	−24	33.6	8.2	∧ ∨

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912

B 20248 short drift.

Hr	Int.	Class	Remarks
28	2	K2	
29	2	A1	The southern of two.
30	1	K	
31	8	K0	
32	10+	Ly5	Burned out.
33	2	F5	
34	3	F0	
35	1	F5	
36	1	Ly	
37	2	K2	
38	5	F5	
39	4	Ly5	
40	5	F8	
41	2	Ly	
42	4	Ly0	
43	4	Ly0	
44	6	Ly5	
45	6	K2	
46	7 8	K0	
47	1	Ly5	
48	3	Ly5	
49	8	Ly5	
50	10+	Ly	
51	2	K0	
52	6	F5	
53	3	Ly	
54	3	K0	

28	+ 25°	1356	3	13.9	− 25	15.7	8.5	∧ ∨
29	− 25°	1346	3	12.0	− 25	17.8	9.2	∨
		~~1351~~	~~3~~	~~12.7~~	~~− 25~~	~~25.2~~	~~7.9~~	
30	− 25°	1342	3	11.5	− 25	5.3	8.6	∧ ∨
31	− 23°	1308	3	11.8	− 23	58.5	6.8	∧ ∨
32	− 22°	1146	3	12.8	− 22	57.9	5.3	∧ ∨
33	− 24°	1513	3	8.5	− 24	45.7	9.0	∧ ∨
34	− 24°	1486	3	5.7	− 24	30.0	8.5	∨
		~~1477~~	~~3~~	~~5.5~~	~~− 24~~	~~24.3~~	~~8.9~~	
35	− 24°	1478	8	48 5.7	− 24	837 30.5	8.4	∨
		~~1486~~	~~3~~	~~5.8~~	~~− 24~~	~~28.3~~	~~8.8~~	
36	− 24°	1643	3	20.0	− 24	56.0	9.0	∧ ∨
37	− 25°	1401	3	20.0	− 25	0.8	8.4	∧ ∨
38	− 25°	1428	3	23.6	− 25	19.1	8.1	∧ ∨
39	− 26°	1307	3	23.2	− 26	7.1	8.4	∧ ∨
40	− 26°	1298	3	22.0	− 26	41.7	8.8	∧ ∨
41	− 26°	1297	3	21.9	− 26	57.5	9.1	∧ ∨
42	− 26°	1306	3	23.1	− 26	46.3	8.6	∧ ∨
43	− 27°	1243	3	23.1	− 27	2.4	8.3	∧ ∨
44	− 27°	1199	3	17.5	− 27	40.9	8.0	∧ ∨
45	− 27°	1200	3	17.6	− 27	45.2	7.9	∧ ∨
46	− 28°	1126	3	18.4	− 28	22.5	7.5	∧ ∨
47	− 27°	1206	3	18.9	− 27	34.6	8.6	∧ ∨
48	− 27°	1213	3	19.9	− 27	41.2	8.4	∧ ∨
49	− 27°	1216	3	20.3	− 27	42.8	7.7	∧ ∨
50	− 27°	1228	3	21.1	− 27	45.3	6.1	∧ ∨
51	− 27°	1230	3	21.2	− 27	25.3	8.4	∧ ∨
52	− 27°	1235	3	21.9	− 27	20.3	8.2	∧ ∨
53	− 27°	1237	3	22.4	− 27	51.2	8.6	∧ ∨
54	− 28°	1149	3	22.2	− 28	11.0	8.2	∧ ∨

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May, 23, 1912

B 20248 almt disp.

Nr	Int.	Class	Remark
55	8	K2	
56	10	A2	
57	2	F5	
58	2	K2	
59	3	F5	
60	6	K0	
61	7	F0	
62	3	G0	
63	10	F0	
64	3	K	Partly superposed on 65.
65	8	G0	
66	5	K2	
67	4	F5	
68	6	F2	
69	3	K2	
70	7	G5	
71	2	G	Maybe a trail of 72.
72	10+	G	Burned out.
73	5	K0	
74	1	G	
75	7	G0	
76	9	G5	
77	5	F0	
78	5	A5	
79	5	K0	
80	5	A5	
81	3	G	E.

55	−29°	1268	3	21.5	−29	1.1	7.5	∧ J
56	−28°	1067	3	8.0	−28	2.3	6.8	∧ ı
57	−27°	1141 ~~1609~~	3	9.7 ~~8.6~~	−27	58.3	8.9	∧ı
58	−27°	1144	3	10.6 ~~9.9~~	−27	35.3 ~~49.8~~	8.1 ~~9.0~~	∧ J
59	−28°	1077	3	10.3	−28	28.5	8.6	∧ J
60	−28°	1075	3	9.9	−28	49.1	7.5	∧ J
61	−29°	1204	3	10.8	−29	6.1	8.3	∧ ı
62	−28°	1083	3	11.3	−28	57.3	8.7	∧ J
63	−29°	1216	3	12.8	−29	15.3	5.9	∧ ı
64	−29°	1229	3	14.8	−29	14.3	8.3	∧ ı
65	−29°	1231	3	14.8	−29	18.6	7.5	∧ J
66	−29°	1230	3	14.8	−29	26.7	7.5	∧ J
67	−29°	1220	3	13.4	−29	58.4	8.8	∧ J
68	−30°	1284	3	14.7	−30	41.6	7.5	∧ J
69	−29°	1172	3	5.6	−29	55.3	8.2	∧ J
70	−29°	1174	3	6.6	−29	38.2	7.5	∧ J
71	~~−29°~~	~~1176~~	3	~~6.7~~	−29	39.2	9.3	ı
72	−29°	1177	3	6.8	−29	28.7	3.6	∧ J
73	−29°	1182	3	7.6	−29	14.6	8.0	∧ ı
74	−29°	1184	3	8.3	−29	5.6	8.8	∧ J
75	−29°	1183	3	8.1	−29	25.6	8.3	∧ J
76	−30°	1238	3	8.4	−30	16.3	6.4	∧ J
77	−29°	1180	3	7.2	−29	53.7	8.5	∧ ı
78	−30°	1239	3	8.5	−30	42.2	8.5	∧ J
79	−30°	1227	3	7.4	−30	37.6	7.7	∧ J
80	−30°	1223	3	6.7	−30	45.0	8.0	ı J
81	−30°	1216	3	6.0	−30	58.2	8.5	∧ ı

Trail of No. 72 = −29° 1177 magn. 3.6

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, May 23, 1912
B20248 about disp.

No.	Int.	Class	Remark
82	5	fg	E.
83	7	a	E.
84	9	ko	E.
85	10+	a	E.
86	4	fg	
87	2	fg	

Time: 11.31

82	−31°	1262	3	4.4	−31	43.7	7.7	∧ J
83	−32°	1162	3	2.9	−32	7.6	8.2	∧ J
84	−31°	1282	3	7.5	−31	35.8	7.0	∧ J
85	−31°	1303	3	11.0	−31	17.5	6.4	∧ J
86	−29°	1254	3	18.6	−29	34.2	8.4	∧ J
87	−29°	1251	3	17.9	−29	49.0	8.0	∧ J

Identified by ANR. June 7, 1912
Checked. ORL. 14 1912. LPW.
cards made out by M. C. W.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24, 1912.

B 40947 shot diff.

Time: 10.14

No.	Int.	Class	Remark.
1	8	Bq	E.
2	3	F	E.
3	5	lyo	
4	10+	A	
5	3	lys	
6	5	K0	
7	2	M	E.
8	6	F2	
9	3	lyo	
10	2	lyo	
11	3	lyo	
12	6	A5	
13	5	K5	
14	4	lys	
15	4	K0	
16	1	ly	
17	4	F0	
18	5	lyo	
19	1	lys	
20	7	F5	
21	6	A3	
22	6	K2	
23	1	K	
24	8	A2	
25	6	K0	
26	9	A2	
27	7	F8	

1	−40°	736	2	46.0	−40	26.6	6.5	✓
2	−40°	750	2	49.1	−40	42.5	8.0	✓
3	−39°	860	2	51.7	−39	56.4	7.8	✓
4	−40°	771	2	53.5	−40	48.2	2.6	✓
5	−41°	857	2	54.4	−41	13.6	8.4	✓
6	−42°	987	2	55.5	−42	22.2	6.9	✓
7	−42°	996	2	57.4	−42	19.8	7.9	✓
8	−40°	787	2	57.8	−40	44.9	8.1	✓
9	−40°	794	2	59.3	−40	35.9	8.4	✓
10	−40°	799	3	0.2	−40	21.4	9.0	✓
11	−40°	803	3	0.7	−40	18.6	8.7	✓
12	−40°	802	3	0.6	−40	11.9	8.6	✓
13	−40°	805	3	1.8	−40	15.3	7.5	✓
14	−39°	893	2	57.3	−39	39.8	8.2	✓
15	−39°	901	3	0.9	−39	47.3	8.9	✓
16	−39°	908	3	1.8	−39	51.3	9.0	✓
17	−39°	907	3	1.8	−39	35.6	8.9	✓
18	−39°	917	3	3.3	−39	46.9	8.1	✓
19	−40°	815	3	4.2	−40	6.3	8.7	✓
20	−41°	893	3	0.6	−41	28.1	7.3	✓
21	−41°	904	3	4.0	−41	49.3	8.3	✓
22	−41°	926	3	8.7	−41	50.9	7.2	✓
23	−40°	817	3	4.9	−40	54.5	8.9	✓
24	−40°	826	3	7.6	−40	52.8	7.3	✓
25	−40°	833	3	9.5	−40	48.3	7.3	✓
26	−39°	929	3	6.0	−39	31.3	7.0	✓
27	−39°	935	3	7.1	−39	29.8	7.2	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24. 1912.
B 40947 shot disp.

No.	Int.	Class	Remark
28	6	K0	
29	9	A0	
30	5	F0	
31	6	F2	
32	4	K5	
33	1	F5	
34	7	K0	
35	4	K0	
36	7	F5	
37	3	F8	
38	3	F5	
39	2	K0	
40	3	F5	
41	2	Ma	
42	2	F5	
43	4	G5	
44	4	K0	
45	1	G	
46	4	K0	
47	4	F8	
48	6	F5	
49	1	K2	
50	6	F5	
51	3	F8	
52	1	K0	
53	4	G5	
54	8	G0	

28	-39°	936	3	7.2	-39	50.6	7.0 ✓
29	-39°	950	3	9.1	-39	16.5	6.8 ✓
30	-39°	957	3	10.4	-39	30.6	8.0 ✓
31	-39°	961	3	10.7	-39	27.6	7.7 ✓
32	-39°	977 (65)	3	11.0 +3.0	-39	31.2 24.9	7.5 8.1 ✓
33	-39°	968 (4)	3	10.9 +1.0	-39	44.9 31.2	9.3 7.5 ✓
34	-40°	839	3	10.8	-40	13.6	7.1 ✓
35	-41°	936	3	10.7	-41	41.5	8.2 ✓
36	-41°	943	3	12.2	-41	44.5	7.7 ✓
37	-40°	855	3	12.8	-40	55.4	8.5 ✓
38	-40°	859	3	13.1	-40	48.2	8.6 ✓
39	-40°	863	3	13.8	-40	27.2	8.0 ✓
40	-40°	871	3	15.6	-40	44.7	8.7 ✓
41	-39°	971	3	13.0	-39	24.9	8.1 ✓
42	-38°	1088	3	13.2	-38	26.9	8.7 ✓
43	-38°	1090	3	13.4	-38	50.5	8.0 ✓
44	-38°	1093	3	13.9	-38	45.5	7.9 ✓
45	-38°	1110	3	17.1	-38	43.0	8.9 ✓
46	-38°	1116	3	18.0	-38	56.0	8.3
47	-38°	1120	3	18.8	-38	49.5	8.3 ✓
48	-38°	1127	3	20.9	-38	46.4	7.6 ✓
49	-38°	1134	3	21.6	-38	40.4	8.5 ✓
50	-38°	1139	3	22.4	-38	19.9	7.7 ✓
51	-39°	1031	3	23.7	-39	14.5	8.5 ✓
52	-40°	885	3	17.1	-40	21.4	8.8 ✓
53	-40°	889	3	17.7	-40	43.7	7.9 ✓
54	-40°	898	3	19.0	-40	30.7	7.2 ✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics + Provided by the NASA Astrophysics Data System

Friday, May 24, 1912

B 40947 chat disk.

Nr.	Int.	Class	Remark
55	6	K0	
56	6	g_5	
57	3	A	E.
58	5	F5	E.
59	6	g_5	E.
60	3	k_0	E.
61	3	K2	E.
62	1	M	
63	2	g_0	
64	2	F8	
65	3	g_5	
66	3	F8	
67	10	F	
68	1	M	
69	5	g_5	
70	9	k_3	
71	4	g_5	
72	3	g_0	
72a	2	K0	
73	2	F5	
74	2	g	
75	4	A2	
76	4	K0	
77	8	A2	
78	2	K0	
79	5	g_0	
80	2	g_0	
81	2	g_5	

55	-40°	929	3	23.0	-40	17.9	7.1
56	-40°	930	3	28.1	-40	16.5	7.5
57	-38°	935	2	46.2	-38	35.4	8.7
58	-38°	939	2	46.9	-38	35.8	8.3
59	-38°	937	2	46.3	-38	13.5	8.0
60	-37°	1067	2	46.2	-37	15.3	8.3
61	-37°	1079	2	47.8	-37	21.7	7.5
62	-37°	1087	2	49.0	-37	27.7	8.4
63	-37°	1090	2	49.6	-37	24.7	9.1
64	-38°	953	2	49.5	-38	14.8	8.9
65	-38°	955	2	49.7	-38	20.3	8.3
66	-39°	840	2	48.1	-39	3.8	8.7
67	-38°	948	2	48.7	-38	56.8	6.0
68	-38°	959	2	50.2	-38	50.3	8.7
69	-39°	853	2	51.0	-39	9.7	7.0
70	-38°	976	2	52.7	-38	41.8	6.2
71	-38°	986	2	53.7	-38	39.7	7.3
72	-37°	111.9	2	55.4	-37	57.4	8.0
72a	-38°	97.7	2	53.7	-38	2.0	7.6
73	-38°	999	2	56.7	-38	37.3	9.0
74	-38°	1006	2	57.7	-38	44.2	8.5
75	-38°	1015	3	0.1	-38	51.7	9.0
76	-38°	1023	3	1.0	-38	58.3	8.0
77	-37°	1152	3	1.0	-37	49.5	7.5
78	-37°	1151	3	0.9	-37	24.3	8.5
79	-38°	1038	3	3.6	-38	19.6	8.0
80	-38°	1046	3	4.7	-38	19.5	8.5
81	-38°	1050	3	6.6	-38	29.5	8.3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 28, 1915

B 40947 short disp.

W.	Int.	Class	Remark
82	3	$Iy5$	
83	2	$Iy0$	
84	5	$F8$	
85	2	$K0$	
86	2	$Iy5$	
87	1	Iy	
88	10	$B9$	
89	1	$Iy5$	
90	8	$Iy0$	
91	8	$A2$	
92	3	$Iy0$	
93	4	$F5$	
94	1	Iy	
95	1	Iy	
96	6	$F0$	
97	6	$F2$	
98	7	$A0$	
99	4	$K5$	
100	3	$A3$	
101	1	Iy	
102	4	$Iy5$	
103	2	$Iy5$	
104	6	Ka $Iy5$	
105	1	$F5$	
106	9	$A3$	
107	7	$A5$	
108	8	$A0$	Parity superposed on 107.

82	-38°	1062	3	7.8	-38	17.0	8.0 J
83	-37°	1185	3	6.0	-37	39.6	8.3 J
84	-37°	1202	3	8.2	-37	26.1	8.3 J
85	-37°	1206	3	8.5	-37	12.8	8.0 J
86	-36°	1209	3	8.3	-36	56.8	8.6 J
87	-37°	1195	3	7.2	-37	8.7	9.0 J
88	-36°	1208	3	8.1	-36	24.7	6.1 J
89	-35°	1131	3	9.2	-35	56.7	9.6 J
90	-36°	1218	3	9.8	-36	1.7	6.7 J
91	-36°	1232	3	11.7	-36	9.0	6.7 J
92	-36°	1234	3	12.0	-36	10.6	8.7 J
93	-37°	1218	3	10.5	-37	30.1	8.3 J
94	-37°	1223	3	10.9	-37	41.8	9.0 J
95	-36°	1244	3	13.3	-36	36.9	8.9 J
96	-36°	1250	3	14.0	-36	34.4	8.0 J
97	-37°	1246	3	14.5	-37	1.0	7.5 J
98	-37°	1254	3	15.8	-37	14.0	8.0 J
99	-37°	1255	3	16.2	-37	54.2	7.5 J
100	-37°	1257	3	16.7	-37	27.0	9.0 J
101	-37°	1262	3	17.3	-37	4.4	9.0 J
102	-37°	1265	3	18.0	-37	1.0	8.0 J
103	-37°	1273	3	19.3	-37	43.7	9.0 J
104	-37°	1272	3	19.2	-37	36.2	7.6 J
105	-37°	1279	3	19.9	-37	39.6	9.0 J
106	-37	1284	3	20.5	-37	35.6	7.2 J
107	-36°	1291	3	21.2	-36	23.9	7.5 J
108	-36°	1290	3	21.1	-36	21.3	6.2 V

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24, 1912.

B 40947 chest disp.

No.	Int.	Class	Remark
109	3	Ly_0	
110	7	Z_{10}	
111	8	A_2	
112	5	Z_2	E.
113	3	Ly	E.
114	7	A_2	E.
115	6	Ly_0	
116	3	Ly	E.
117	3	Ly_5	E.
118	3	Ly_5	E.
119	2	Ly_5	E.
120	7	Z_5	
121	7	Z_2	
122	4	K_2	
123	1	Ly_5	
124	2	Z_8	
125	1	Z_5	
126	1	Z_8	
127	2	Z_5	
128	2	Ly_0	
129	9	Ly_0	
130	1	Ly	
131	2	B_8	
132	4	K_2	
133	6	Ly_0	
134	3	Y_5	
135	3	Ly	

109	− 36°	1302	3	22.4	− 36	21.4	9.1	✓
110	− 36°	1306	3	22.7	− 36	7.2	5.6	✓
111	− 36°	1310	3	23.4	− 36	16.9	6.6	✓
112	− 36°	1311	3	23.5	− 36	26.9	8.0	✓
113	− 36°	1315	3	24.1	− 36	20.2	9.0	✓
114	− 36°	1322	3	25.2	− 36	10.8	7.0	✓
115	− 37°	1326	3	26.2	− 37	47.9	7.5	✓
116	− 38°	1168	3	26.3	− 38	1.2	8.6	✓
117	− 38°	1155	3	24.5	− 38	26.9	8.5	✓
118	− 38°	1167	3	53	− 38	9.4	8.8	✓
119	− 36°	1105	2	51.4	− 36	31.2	8.7	✓
120	− 36°	1107	2	51.9	− 36	48.3	7.7	✓
121	− 36°	1112	2	52.2	− 36	56.2	7.4	✓
122	− 37°	1099	2	51.8	− 37	12.3	7.2	✓
123	− 37°	1110	2	54.2	− 37	21.9	8.7	✓
124	− 36°	1131	2	55.7	− 36	26.7	8.5	✓
125	− 37°	1131	2	57.2	− 37	22.8	8.5	✓
126	− 37°	1122	2	55.6	− 37	3.7	9.1	✓
127	− 36°	1149	2	59.0	− 36	24.1	8.5	✓
128	− 36°	1172	3	2.9	− 36	15.1	8.9	✓
129	− 35°	1092	3	3.8	− 35	56.0	7.0	✓
130	− 36°	1177	3	4.0	− 36	31.7	8.9	✓
131	− 36°	1181	3	4.5	− 36	26.7	9.3	✓
132	− 35°	1098	3	5.2	− 35	24.3	8.1	✓
133	− 35°	1100	3	5.6	− 35	2.3	8.1	✓
134	− 35°	1109	3	7.2	− 35	21.0	8.1	✓
135	− 34°	1162	3	8.1	− 34	51.3	8.7	✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24, 1912.

B 40947 short exp.

Nr.	Int.	Class	Remarks
136	3	K5	
137	3	K5	
138	9	F0	
Time: 10.45 139	3	F0	
140			

136	−35°	1140	3	10.5	−35	18.2	7.8	✓
137	−35°	1161	3	13.8	−35	37.4	8.0	✓
138	−35°	1169	3	14.4	−35	27.3	6.9	✓
139	−35°	1168	3	14.3	−35	57.0	8.5	✓

Identified June 8, 1912 by ANC.
Checked by J. C. M. June 27, 1912

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24, 1912

Time: 11.13

B 24621 short disp.

No.	Int.	Class	Remark
1	7	fg5	
2	3	f8	
3	1	a	
4	2	fg	
5	10	a2	
6	8	f5	
7	10	f5	
8	1	fg	
9	6	fg0	
10	8	B8	
11	9	fg0	
12	4	fg0	
13	2	fg0	
14	1	fg0	
15	2	fg5	
16	2	fg5	
17	4	K0	
18	2	K0	
19	6	A3	
20	3	A5	
21	1	K	
22	1	fg	
23	2	f8	
24	3	K5	
25	4	fg0	
26	2	fg5	
27	3	K0	

1	-31°	1128	2	42.9	-31	56.5	7.3	∧ ∨
2	-32°	1023	2	43.6	-32	6.2	8.7	∧ ∨
3	-31°	1134	2	44.3	-31	59.1	9.6	∧ ∨
4	-32°	1037	2	44.9	-32	4.8	9.2	∧ ∨
5	-31°	1133	2	44.1	-31	20.7	7.7	∧ ∨
6	-30°	1072	2	46.1	-30	56.1	7.3	∧ ∨
7	-31°	1148	2	46.7	-31	20.7	6.4	∧ ∨
8	-31°	1147	2	46.5	-31	32.5	9.3	∧ ∨
9	-32°	1056	2	47.4	-32	4.9	8.8	∧ ∨
10	-31°	1155	2	47.8	-31	55.2	8.1	∧ ∨
11	-31°	1162	2	49.4	-31	23.7	6.9	∧ ∨
12	-31°	1175	2	51.4	-31	21.7	8.5	∧ ∨
13	-31°	1174	2	51.1	-31	46.1	9.1	∧ ∨
14	-31°	1180	2	52.0	-31	22.7	9.0	∧ ∨
15	-31°	1186	2	52.9	-31	27.6	8.9	∧ ∨
16	-31°	1189	2	54.4	-31	49.4	9.0	∧ ∨
17	-32°	1121	2	56.0	-32	8.2	8.5	∧ ∨
18	-31°	1206	2	56.9	-31	51.4	8.5	∧ ∨
19	-32°	1125	2	57.3	-32	5.5	8.5	∧ ∨
20	-31°	1213	2	57.7	-31	26.8	8.7	∧ ∨
21	-32°	1130	2	58.2	-32	52.7	8.6	∧ ∨
22	-32°	1133	2	58.4	-32	31.2	9.2	∧ ∨
23	-32°	1143	2	59.8	-32	45.4	9.0	∧ ∨
24	-33°	1068	2	59.6	-33	2.3	8.5	∧ ∨
25	-33°	1061	2	58.5	-33	25.2	9.0	∧ ∨
26	-33°	1082	3	1.5	-33	8.9	8.8	∧ ∨
27	-33°	1085	3	1.8	-33	11.9	8.8	∧ ∨

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24, 1912

B 24621 shot disp.

No.	Int.	Class	Remark
28	7	K0	
29	8	A3	
30	7	$\frac{K5}{A}$	
31	2	A	Poor focus.
32	4	$\frac{K0}{A}$	
33	2	$\frac{K0}{A}$	
34	2	F8	
35	1	$\frac{K0}{A}$	
36	5	A2	
37	4	F0	
38	7	K0	
39	7	A2	
40	10	A2	
41	3	F5	
42	3	F2	
43	8	K2	
44	8	A2	
45	2	$\frac{K5}{A}$	
46	1	F2	
47	2	A	Focus poor at line K.
48	4	K0	
49	10	A	
50	7	F5	
51	5	F0	
52	3	K0	
53	4	K5	
54	3	$\frac{K5}{A}$	

28 - 32°	1159	3	2.1 - 32	50.8	7.7	∧ ∨	
29 - 32°	1162	3	2.9 - 32	7.6	8.2	∧ ∪	
30 - 31°	1262	3	4.4 - 31	43.7	7.7	∧ ∣	
31 - 31°	1266	3	5.2 - 31	36.2	8.7	∧ ∨	
32 - 32°	1023	23	41 - 32	54.1	8.5	∧ ∨	
33 - 32°	1043	2	46.4 - 32	58.7	8.7	∨	
34 - 32°	1043	2	46.4 - 32	58.6	8.7	∪	
35 - 33°	991	2	46.8 - 33	7.8	9.0	∧ ∨	
36 - 33°	997	2	47.4 - 33	8.0	8.7	∧ ∨	
37 - 33°	1005	2	48.6 - 33	23.0	9.3	∧ ∨	
38 - 33°	1010	2	49.6 - 33	26.7	8.3	∧ ∨	
39 - 33°	1007	2	49.0 - 33	40.7	8.9	∧ ∨	
40 - 34°	1048	2	49.7 - 34	1.9	6.7	∧ ∪	
41 - 34°	1058	2	52.0 - 34	21.2	9.0	∧ ∪	
42 - 34°	1059	2	52.3 - 34	41.7	9.0	∧ ∨	
43 - 34°	1071	2	53.9 - 34	41.1	6.8	∧ ∪	
44 - 33°	1036	2	53.2 - 33	39.2	8.0	∧ ∨	
45 - 33°	1025	2	51.4 - 33	18.0	9.0	∧ ∪	
46 - 33°	1019	2	51.0 - 33	10.0	9.3	∧ ∪	
47 - 33°	1035	2	53.2 - 33	20.7	9.6	∧ ∨	
48 - 33°	1040	2	54.0 - 33	25.3	8.4	∧ ∪	
49 - 33°	1042	2	54.5 - 33	0.4	6.2	∧ ∨	
50 - 33°	1049	2	55.9 - 33	36.5	6.9	∧ ∣	
51 - 33°	1050	2	56.1 - 33	40.2	8.0	∧)	
52 - 33°	1080	3/4	1.2 - 33	55.5	8.5	∧ ∣	
53 - 34°	1122	3	1.8 - 34	4.6	8.3	∧ ∨	
54 - 33°	1087	3	2.1 - 33	47.2	8.9	∧ ∨	

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics + Provided by the NASA Astrophysics Data System

Friday, May 24, 1912.

B 24621 short diese.

No	Int.	Class	Remark
55	6	J	Poor focus
56	5	ly	" "
57	5	Ma	
58	10	ly5	
59	3	J8	
60	2	K5	
61	9	ly5	
62	10	ly5	
63	9	ly5	
64	7	ly0	E.
65	4	K5	
66	6	K0	
67	7	ly0	
68	6	ly5	
69	3	J8	
70	3	K5	
71	8	ly5	
72	3	K0	
73	3	K5	Another star superposed at south.
74	3	K0	
75	5	J8	
76	2	A2	
77	1	ly	
78	2	K	
79	3	J5	
80	1	K	
81	2	ly	

55	−34°	1139	3	47.3	−34	24.7	8.0	∧ J
56	−33°	1107	3	5.1	−33	49.2	8.7	∧ J
57	−33°	1110	3	5.4	−33	31.5	7.8	∧ V
58	−34°	1016	21	43.4	−34	18.2	6.8	∧ J
59	−34°	1009	2	42.0	−34	45.3	9.0	∧ V
60	−35°	964	2	42.2	−35	18.4	9.0	∧ V
61	−36°	1050	2	42.5	−36	4.0	6.7	∧ V
62	−36°	1067	2	45.2	−36	21.8	6.1	∧ V
63	−36°	1040	2	45.6	−36	11.5	5.4	∧ J
64	−36°	1033	2	39.1	−36	49.9	6.8	∧ J
65	−36°	1091	2	48.9	−36	24.7	8.3	∧ J
66	−35°	992	2	48.1	−35	33.5	7.9	∧ J
67	−35°	994	2	48.2	−35	0.6	7.7	∧ V
68	−33°	992	2	47.1	−33	57.9	8.3	∧ J
69	−35°	999	2	49.8	−35	3.6	9.0	∧ V
70	−36°	1101	2	50.5	−36	4.5	8.5	∧ V
71	−35°	1015	2	51.8	−35	53.0	6.7	∧ V
72	−35°	1039	2	55.3	−35	36.0	8.9	∧ V
73	−35°	1040	2	55.5	−35	17.3	8.0	∧ V 73 1015 55.8 −35 17.0 9.5 superposed.
74	−35°	1050	2	57.1	−35	38.5	8.7	∧ J
75	−34°	1098	2	59.2	−34	54.1	8.5	∧ V
76	−34°	1102	2	59.7	−34	40.1	9.3	∧ J
77	−34°	1104	2	59.7	−34	28.4	9.0	∧ V
78	−35°	1082	3/4	2.6	−35	8.5	8.4	∧ J
79	−33°	979	2	46.2	−33	30.8	9.0	∧ V
80	−32°	1060	2	48.2	−32	22.6	9.4	∧ J
81	−32°	1064	2	48.7	−32	50.9	8.9	∧ V

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, May 24, 1912

B 24621 short disp.

	No.	Int.	Class	Remark
Time: 11.38	82	2	Gp5	

82-32°	107°	2	49.3	-32	30.1	9.0	1	✓

Identified by AMC. Aug. 29, 1912

Checked Sept. 25th 1912

cards made out by Miss C. W.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, May 27 1912.

Time: 10.31

B 40943 short disp.

Nr.	Int.	Class	Remark
1	4	A3	
2	10	K	
3	8	A2	
4	2	K	E.
5	3	K2	
6	3	K5	
7	3	A3	
8	7	A3	
9	5	A5	
10	8	A2	
11	8	K0	
12	3	F0	
13	4	K5	E.
14	2	K	E.
15	2	A	
16	1	F5	
17	8	F8	
18	2	F	
19	2	fg	E.
20	5	F2	E.
21	8	fg	
22	4	A3	E.
23	3	F5	
24	4	F2	
25	2	K2	
26	10	F8	
27	5	hdb	

1	-40°	993	3	30.7	-40	21.3	8.3	✓
2	-40°	1008	3	32.6	-40	40.8	4.8	✓
3	-40°	1027	3	35.3	-40	45.7	6.7	✓
4	-41°	1075	3	32.6	-41	18.3	8.3	✓
5	-41°	1085	3	34.6	-41	2.9	8.1	✓
6	-40°	1035	3	36.6	-40	58.8	8.3	✓
7	-41°	1100	3	36.6	-41	9.8	9.6	✓
8	-41°	1103	3	36.7	-41	10.8	7.3	✓
9	-41°	1090	3	35.6	-41	55.9	8.5	✓
10	-42°	1208	3	37.0	-42	9.3	8.0	✓
11	-41°	1119	3	39.7	-41	3.3	6.6	✓
12	-41°	1120	3	39.8	-41	40.8	8.5	✓
13	-42°	1226	3	40.0	-42	17.4	7.3	✓
14	-42°	1230	3	40.6	-42	9.0	8.8	✓
15	-41°	1134 ~~1135~~	3	~~42.7~~ 42.3	-41	~~9.3~~ 9.3	~~9.4~~ 9.4	✓
16	-41°	1139 ~~1140~~	3	~~48.7~~ 48.7	-41	~~7.3~~ 7.3	~~9.8~~ 9.8	✓
17	-40°	1096	3	44.4	-40	47.4	7.1	✓
18	-41°	1154	3	44.8	-41	16.7	9.1	✓
19	-41°	1147	3	43.8	-41	34.3	9.3	✓
20	-41°	1150	3	43.9	-41	42.3	8.0	✓
21	-41°	1185	3	49.1	-41	34.8	7.3	✓
22	-42°	1283	3	48.6	-42	28.7	8.2	✓
23	-41°	1202	3	51.5	-41	26.4	8.4	✓
24	-41°	1203	3	51.8	-41	50.3	8.1	✓
25	-41°	1208	3	52.3	-41	42.8	8.7	✓
26	-40°	1128	3	50.0	-40	43.6	6.2	✓
27	-40°	1109	3	47.0	-40	27.8	7.7	✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, May 27, 1912
B 409 43 short disp.

No.	Int.	Class	Remark
28	3	K2	
29	7	Mb	
30	5	G5	
31	4	G5	
32	2	G5	
33	1	K	
34	2	A2	
35	3	G5	
36	9	B9	
37	8	B9	
38	3	K0	
39	2	G0	
40	5	K0	
41	7	A3	
42	3	F8	
43	2	K2	
44	5	G0	
45	2	G5	
46	4	G0	
47	3	F5	
48	3	K0	
49	2	F5	Difficult.
50	4	K0	
51	7	A2	
52	3	K0	
53	2	A	
54	2	G	

28	−39°	12 11	3	45.7	−39	59.9	8.3	✓
29	−39°	12 17	3	46.2	−39	21.7	7.8	✓
30	−39°	12 26	3	47.7	−39	38.0	8.0	✓
31	−39°	12 31	3	49.2	−39	53.9	8.3	✓
32	−39°	12 32	3	49.3	−39	42.7	8.7	✓
33	−39°	12 30	3	48.9	−39	17.7	9.4	✓
34	−38°	13 36	3	49.1	−38	54.0	8.9	✓
35	−39°	12 ~~39~~ 40	3	50.8 ~~2~~	−39	~~12.6~~ 10.1	~~9.3~~ 8.7	✓
36	−39°	12 45	3	50.8	−39	7.6	6.8	✓
37	−39°	12 53	3	52.0	−39	19.6	7.0	✓
38	−39°	12 60	3	53.0	−39	27.0	8.2	✓
39	−39°	12 62	3	53.1	−39	53.1	9.0	✓
40	−40°	11 52	3	52.6	−40	23.7	7.1	✓
41	~~−39°~~ −40°	11 48	3	52.2	~~−39~~ −40	16.0	7.5	✓
42	−40°	11 68	3	54.2	−40	48.0	8.5	✓
43	−39°	12 76	3	56.1	−39	9.0	8.6	✓
44	−39°	12 84	3	56.0	−39	17.5	7.9	✓
45	−38°	13 95	3	56.8	−38	54.3	8.5	✓
46	−38°	14 04	3	58.1	−38	43.3	8.3	✓
47	−39°	13 05	3	59.0	−39	6.9	8.5	✓
48	−38°	14 12	3	59.0	−38	56.3	8.4	✓
49	−38°	14 10	~~3~~	~~59.0~~	−38	59.7	9.0	✓
50	−39°	13 03	3	58.7	−39	42.3	7.4	✓
51	−40°	11 ~~98~~ 96	3	58.6	−40	8.9	7.3	✓
52	−40°	11 ~~94~~ 96	3	58.4	−40	20.6	8.3	✓
53	−40°	12 08	8.4	0.1	−40	6.3	8.4	✓
54	−39°	13 28	4	1.6	−39	19.9	8.7	✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday May 27, 1912

B 409 43 shot disp.

No.	Int.	Class	Remark
55	3	7	E.
56	3	7	E.
57	2	7	
58	7	ly5	
59	2	ly0	
60	3	78	
61	3	ly5	
62	6	ly0	
63	3	78	
64	2	ly5	
65	10+	By	Burned out
66	2	ly	
67	2	78	
68	2	ly0	
69	4	75	
70	3	ly0	
71	2	ly5	
72	1	ly	
73	2	ly5	
74	5	ly5	
75	8	A3	
76	6	78	
77	4	K0	
78	3	ly5	
79	2	75	
80	4	K0	
81	2	K0	

55	-39°	1333	3 4	2.5	-39	23.5	8.3 ✓
56	-39°	1109	3	33.4	-39	11.0	8.5 ✓
57	-39°	1123	3	34.9	-39	31.6	9.0 ✓
58	-38°	1264	3	39.5	-38	41.6	7.2 ✓
59	-38°	1267	3	39.8	-38	43.6	9.0 ✓
60	-38°	1271	3	40.2	-38	47.6	8.9 ✓
61	-38°	1280	3	41.3	-38	58.6	8.1 ✓
62	-39°	1167	3	40.2	-39	12.8	7.7 ✓
63	-38°	1276	3	40.9	-38	16.5	8.2 ✓
64	-38°	1285	3	41.8	-38	29.0	8.5 ✓
65	-38°	1299	3	44.0	-38	0.3	4.3 ✓
66	-38°	1304	3	45.1	-38	6.8	8.7 ✓
67	-38°	1322	3	46.7	-38	30.3	8.8 ✓
68	-38°	1325	3	47.3	-38	6.4	8.9 ✓
69	-37°	1492	3	47.8	-37	53.3	8.3 ✓
70	-38°	1332	3	48.5	-38	18.1	8.3 ✓
71	-38°	1339	3	49.2	-38	17.1	8.5 ✓
72	-38°	1343	3	49.9	-38	22.1	9.6 ✓
73	-38°	1345	3	50.2	-38	24.6	8.5 ✓
74	-38°	1349	3	50.9	-38	21.0	7.6 ✓
75	-36°	1515	3	50.8	-36	40.9	7.5 ✓
76	-36°	1508	3	50.1	-36	47	7.5 ✓
77	-35°	1470	3	50.4	-35	55.5	7.5 ✓
78	-36°	1535	3	53.3	-36	37.9	8.3 ✓
79	-36°	1540	3	53.8	-36	23.2	8.8 ✓
80	-36°	1543	3	54.3	-36	8.2	8.2 ✓
81	-35°	1558	3	55.5	-35	8.6 0.1	8.6 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, May 27. 1912

B 40943 short disp.

No.	Int.	Class	Remark
82	3	f_2	
83	5	A_0	
84	1	K	
85	3	F_2	
86	8	A_3	
87	2	f_2	
88	2	F_5	
89	3	f_{25}	
90	10+	K	
91	15	A_3	
92	1	f_5	
93	2	f_2	
94	2	F_2	
95	9	B_8	
96	3	K_0	
97	1	K	
98	3	F_8	
99	5	K_0	
100	10+	f_5	
101	8	B_8	
Time: 10.53 102	1	A_2	
103			
104			

cmb. 131, 134

82	−36°	1550	3	55.2	−36	23.5	8.5 ✓
83	−36°	1569	3	57.3	−36	27.2	8.0 ✓
84	−36°	1571	3	57.5	−36	58.0	8.7 ✓
85	−37°	1581	3	58.5	−37	4.4	8.6 ✓
86	−37°	1584	3	59.2	−37	24.6	6.9 ✓
87	−38°	1893	3	56.4	−38	17.5	9.1 ✓
88	−38°	1403	3	57.9	−38	19.0	8.3 ✓
89	−37°	1379	3	33.7	−37	40.8	8.0 ✓
90	−37°	1415	3	38.2	−37	42.4	4.8 ✓
91	−37°	1417	3	38.5	−37	26.9	8.0 ✓
92	−37°	1421	3	39.0	−37	17.3	9.1 ✓
93	−37°	1427	3	39.5	−37	17.3	8.7 ✓
94	−36°	1433	3	41.4	−36	31.4	8.4 ✓
95	−36°	1453	3	43.1	−36	29.4	6.7 ✓
96	−37°	1457	3	42.9	−37	8.5	8.5 ✓
97	−36°	1449	3	42.9	−36	55.2	9.2 ✓
98	−36°	1463	3	44.4	−36	22.2	8.6 ✓
99	−36°	1466	3	44.7	−36	28.4	7.0 ✓
100	−36°	1467	3	44.8	−36	35.0	4.1 ✓
101	−36°	1476	3	46.0	−36	48.2	7.0 ✓
102	−37°	1490	3	47.6	−37	6.7	9.1 ✓

Identified by AMC. Sept. 17, 1912
Checked by J. C. M. Sept. 19, 1912
cards made out by M. C. W.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, May 27, 1912

Time: 10.54 B39655 shot disp.

No.	Int.	Class	Remark
1	3	I_5	
2	2	I_5	
3	3	I_5	
4	3	I_5	
5	3	II_0	
6	3	I	
7	4	I_{50}	
8	5	I_0	
9	2	K	
10	2	I_5	
11	3	III_a	
12	2	I_5	
13	4	I_2	
14	4	I_0	
15	4	K_0	
16	2	K_0	
17	5	A	Focus poor.
18	8	A_3	
19	2	A_3	
20	3	I_{50}	
21	2	I	
22	3	K_0	
23	3	K_2	
24	4	I	
25	8	I_5	
26	2	I_5	
27	7	I_{50}	

1	−38°	1417	3	59.7	−38	29.0	9.0 ✓
2	−38°	1421	4	0.0	−38	20.0	9.0 ✓
3	−38°	1426	4	0.3	−38	5.2	9.0 ✓
4	−37°	1603	4	1.6	−37	60.2	8.5 ✓
5	−38°	1435	4	2.2	−38	24.4	8.1 ✓
6	−38°	1436	4	2.3	−38	41.2	9.1 ✓
7	−39°	1328	4	1.6	−39	19.9	8.7 ✓
8	−39°	1333	4	2.5	−39	23.5	8.3 ✓
9	−39°	1337	4	3.1	−39	13.3	9.0 ✓
10	−39°	1332	4	2.4	−39	12.3	9.4 ✓
11	−39°	1336	4	3.0	−39	50.1	8.7 ✓
12	−39°	1339	4	3.2	−39	58.0	9.0 ✓
13	−40°	1216	4	1.4	−40	51.9	8.3 ✓
14	−40°	1229	4	2.6	−40	37.0	8.7 ✓
15	−40°	1235	4	4.1	−40	25.3	8.4 ✓
16	−40°	1251	4	5.8	−40	33.5	9.3 ✓
17	−40°	1253	4	6.0	−40	40.5	9.3 ✓
18	−40°	1254	4	6.2	−40	51.9	7.7 ✓
19	−40°	1250	4	5.5	−40	11.3	9.1 ✓
20	−39°	1349	4	5.0	−39	0.9	8.7 ✓
21	−38°	1457	4	5.4	−38	57.2	9.6 ✓
22	−39°	1375	4	7.6	−39	11.2	8.0 ✓
23	−38°	1481	4	8.7	−38	19.4	8.0 ✓
24	−38°	1485	4	8.9	−38	33.1	9.0 ✓
25	−38°	1490	4	9.9	−38	34.3	7.1 ✓
26	−38°	1491	4	9.9	−38	38.0	8.8 ✓
27	−38°	1497	4	10.8	−38	36.0	7.1 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, May 27, 1912

B.D. 655 shot thefo.

No.	Int.	Class	Remark
28	2	K0	
29	1	K	
30	2	G0	
31	3	G5	
32	8	A0	
33	5	A0	
34	3	K0	
35	8	G5	
36	4	A5	E.
37	7	G5	E.
38	3	G	E.
39	7	A3	
40	7	A	
41	2	G5	
42	2	K0	
43	4	F5	
44	3	F0	
45	4	G	Partly superposed on 46.
46	3	G5	
47	2	G	
48	4	F8	
49	3	G5	
50	5	G5	
51	7	G5	
52	3	F8	
53	3	G0	
54	3	F8	

28	−38°	1484	4	8.9	− 38	57.6	8.9 ✓
29	−39°	1386	4	8.9	− 39	10.7	9.3 ✓
30	−39°	1388	4	9.0	− 39	29.0	8.5 ✓
31	−39°	1400	4	10.2	− 39	16.6	8.5 ✓
32	−39°	1410	4	12.1	− 39	11.6	7.3 ✓
33	−39°	1416	4	12.9	− 39	9.5	8.5 ✓
34	−38°	1515	4	13.6	− 38	44.6	8.9 ✓
35	−40°	1286	4	9.3	− 40	41.0	6.6 ✓
36	−41°	1331	4	10.1	− 41	7.8	9.3 ✓
37	−41°	1332	4	10.3	− 41	12.5	7.5 ✓
38	−41°	1336	4	10.6	− 41	3.8	9.1 ✓
39	−40°	1298	4	10.7	−40	22.3	8.0 ✓
40	−39°	1408	4	11.8	− 39	56.3	8.4 ✓
41	−40°	1309	4	12.6	− 40	23.2	9.0 ✓
42	−40°	1317	4	13.3	− 40	23.0	8.8 ✓
43	−39°	1427	4	13.8	− 39	52.7	8.7 ✓
44	−39°	1430	4	14.0	− 39	11.9	8.9 ✓
45	−38°	1519	4	13.9	− 38	29.2	8.9 ✓
46	−38°	1520 ~~1519~~	4	13.9	− 38	24.9 ~~28.2~~	8.3 ~~8.8~~ ✓
47	−38°	1518	4	13.8	− 38	13.4	9.5 ✓
48	−38°	1522	4	14.4	− 38	11.4	9.1 ✓
49	−37°	1699	4	14.8	− 37	52.1	8.7 ✓
50	−37°	1715	4	16.7	− 37	49.7	8.0 ✓
51	−38°	1539	4	17.3	− 38	4.8	7.1 ✓
52	−38°	1530	4	15.9	− 38	43.0	9.4 ✓
53	−38°	1531	4	16.1	− 38	37.5	9.1 ✓
54	−39°	1435	4	14.8	− 39	11.9	9.0 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday May 27 1913

B 39655 chart disp.

Hr	Int.	Class	Remark
55	2	K	
56	2	K_5	
57	2	K_0	
58	2	K_0	
59	3	K_0	
60	6	A_2	
61	8	A	
62	3	K_0	
63	4	F_5	
64	8	A	
65	4	K_0	
66	2	F_8	
67	2	K	
68	4	K_0	
69	4	K_5	
70	2	K	
71	3	F_8	
72	7	A_3	E.
73	3	K_5	
74	7	K	E.
75	3	K	E.
76	4	K_5	
77	6	K_5	
78	2	K	
79	5	F_8	
80	3	K_2	
81	3	K_0	

55	- 39°	1445	4	15.6	- 39	6.3	8.7 ✓
56	- 39°	1418	4	13.1	- 39	35.3	9.2 ✓
57	- 39°	1465	4	17.8	- 39	24.5	9.3 ✓
58	- 38°	1553	4	18.9	- 38	58.5	9.0 ✓
59	- 39°	1483	4	19.2	- 39	9.8 0.0	9.8 ✓
60	- 39°	1475	4	19.4	- 39	25.6	8.0 ✓
61	- 40°	1372	4	20.0	- 40	20.6	7.3 ✓
62	- 40°	1366	4	19.4	- 40	41.2	8.3 ✓
63	- 41°	1401	4	22.3 +1.4	- 41	6.5	8.6 ✓
64	- 40°	1396	4	22.4	- 40	48.7	6.8 ✓
65	- 38°	1565	4	20.5	- 38	37.0	8.5 ✓
66	- 38°	1566	4	20.9	- 38	49.0	9.0 ✓
67	- 38°	1570	4	21.7	- 38	57.0	9.3 ✓
68	- 38°	1578	4	22.0	- 38	52.4	8.6 ✓
69	- 39°	1495	4	23.9	- 39	5.7	7.8 ✓
70	- 39°	1490	4	23.3	- 39	31.6	9.3 ✓
71	- 39°	1494	4	23.8	- 39	42.0	8.3 ✓
72	- 39°	1504	4	25.3	- 39	22.2	7.3 ✓
73	- 39°	1506	4	25.5	- 39	41.6	7.7 ✓
74	- 39°	1509	4	25.9	- 39	15.8	7.0 ✓
75	- 39°	1516	4	26.7	- 39	27.6	8.7 ✓
76	- 38°	1599	4	25.0	- 38	57.4	8.0 ✓
77	- 38°	1606	4	25.9	- 38	32.6	7.1 ✓
78	- 36°	1584	3	59.4	- 36	27.2	9.2 ✓
79	- 36°	1587	4	0.3	- 36	10.7	8.3 ✓
80	- 36°	1588	4	0.5	- 36	43.4	8.3 ✓
81	- 36°	1596	4	2.3	- 36	47.5	8.6 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday, May 27, 1912.

B 39655 short disp.

No.	Int.	Class	Remark
82	6	A3	
83	7	Ly5	
84	1	Jr	
85	3	Jr8	
86	5	Ly5	
87	3	Ly5	
88	1	Jr	
89	2	Jr0	
90	2	Ly0	
91	2	Ly0	
92	4	Jr5	
93	4	Ly5	
94	2	Jr0	Partly superposed on 95.
95	5	Jr0	
96	4	Jra	
Time: 11.18 97	6	Jr5	
May 28. " 9.50 98	5	Jr5	Partly superposed on 97.
99	2	Jr	
100	1	Ly	
101	2	Ly5	
102	3	Ly5	
103	6	Ly5	
104	3	Ly0	
105	8	A0	
106	2	Ly5	
107	2	Jr8	
108	5	Ly0	

82	−36°	1600	4	2.7	−36	28.8	7.7 J
83	−37°	1618	4	3.1	−37	24.1	7.0 J
84	−36°	1604	4	6.4	−36	57.5	8.5 ✓
85	−36°	1609	4	4.0	−36	36.3	9.3 J
86	−36°	1612	4	4.9	−36	59.0	7.7 J
87	−37°	1633	4	5.3	−37	40.7	9.0 J
88	−37°	1613	4	2.7	−37	55.7	9.5 J
89	−37°	1622	4	4.0	−37	58.2	9.5 J
90	−37°	1626	4	4.5	−37	56.2	9.3 J
91	−37°	1636	4	5.8	−37	28.0	9.3 J
92	−38°	1475	4	7.9	−38	0.2	8.9 ✓
93	−37°	1656	4	8.4	−37	51.1	8.5 J
94	−37°	1662	4	9.3	−37	19.1	9.5 J
95	−37°	1664	4	9.4	−37	21.1	7.0 J
96	−36°	1638	4	8.6	−36	52.0	7.7 J
97	−36	1631	4	7.9	−36	28.9	7.5 J
98	−36°	1632	4	8.0	−36	27.9	8.5 J
99	−36°	1637	4	8.5	−36	51 / 11	9 / 7 J
100	−36°	1639	4	8.8	−36	18.1	9.7 J
101	−36°	1640	4	8.8	−36	13.1	9.1 J
102	−36°	1643	4	9.7	−36	32.3	9.0 J
103	−36°	1652	4	10.8	−36	30.8	7.5 ✓
104	−37°	1670	4	9.8	−37	18.5	9.2 ✓
105	−37°	1677	4	10.7	−37	31.2	6.8 J
106	−37°	1681	4	11.5	−37	21.2	9.2 J
107	−36°	1655	4	11.7	−36	39.6	9.3 ✓
108	−36°	1657	4	11.9	−36	48.5	8.5 J

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912

B 39655 chat disp.

No	Int.	Class	Remark
109	3	Gp	
110	3	Gp	
111	3	Gp	
112	2	Gp	
113	3	Kp	
114	2	Gp	
115	7	Fp	
116	3	Kp	
117	1	K	
118	3	Kp	
119	3	Gp	
120	2	A	
121	3	G	
122	2	G	
123	4	Fp	
124	5	Kp	
125	2	Fp	
126	2	G	
127	3	G	
128	2	G	
129	2	Gp	
130	1	Gp	
131	4	Gp	
132	3	F8	
133	3	Fp	
134	2	Fp	
135	3	Kp	

109	−36°	1659	4	12.1	−36	57.5	8.7 ✓
110	−37°	1685	4	12.5	−37	4.4	9.0 ✓
111	−37°	1691	4	12.8	−37	9.6	8.5 ✓
112	−36°	1667	4	13.9	−36	49.0	8.9 ✓
113	−36°	1666	4	13.3	−36	24.3	8.5 ✓
114	−36°	1664	4	13.1	−36	16.3	9.1 ✓
115	−35°	1632	4	11.4	−35	34.5	8.0 ✓
116	−35°	1639	4	12.7	−35	12.3	8.9 ✓
117	−35°	1638	4	12.7	−35	24.6	9.2 ✓
118	−35°	1641	4	12.9	−35	35.1	9.1 ✓
119	−35°	1647	4	13.5	−35	48.8	8.8 ✓
120	−35°	1645	4	13.4	−35	30.5	9.4 ✓
121	−35°	1659	4	15.2	−35	19.9	9.3 ✓
122	−35°	1660	4	15.5	−35	32.9	9.3 ✓
123	−35°	1665	4	16.0	−35	23.3	8.8 ✓
124	−36°	1676	4	15.4	−36	57.0	8.3 ✓
125	−37°	1700	4	14.9	−37	23.0	9.3 ✓
126	−37°	1702	4	15.2	−37	43.7	9.4 ✓
127	−37°	1724	4	18.4	−37	33.7	9.0 ✓
128	−37°	1725	4	18.5	−37	47.6	9.0 ✓
129	−37°	1731	4	19.1	−37	5.0	9.0 ✓
130	−37°	1732	4	19.4	−37	33.4	9.0 ✓
131	−37°	1740	4	20.2	−37	53.9	8.2 ✓
132	−37°	1747	4	21.2	−37	33.7	9.0 ✓
133	−37°	1741	4	20.2	−37	6.9	9.2 ✓
134	−36°	1711	4	20.3	−36	44.9	8.7 ✓
135	−35°	1539	3	59.7	−35	5.2	8.5 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912

B 39655 shot disp.

No.	Int.	Class	Remark
136	7	K_0	
137	4	K_0	
138	4	K_0	
139	2	K_0	
140	3	K_5	
141	5	K_0	
142	3	K_5	
143	1	K_5^5	
144	2	K_5^5	
145	4	K	E.
146	5	K	E.
147	6	Ma	
148	5	F	
149	8	K_0	
150	3	K_2	
151	2	K	
152	1	K	
153	1	K	
154	3	K_5	
155	2	K_5	
156	2	C	
157	3	K_0	
158	4	F	E.
159	1	K_5^5	
160	2	K_5^5	
161	2	K	
162	2	K_0	

136	− 35°	1544	4	0.3	− 35	47.8	7.6 ✓
137	− 35°	1551	4	1.0	− 35	48.5	8.0 ✓
138	− 35°	1552	4	1.2	− 35	25.4	7.9 ✓
139	− 35°	1561	4	2.3	− 35	52.2	8.7 ✓
140	− 35°	1565	4	2.5	− 35	53.2	8.3 ✓
141	− 35°	1571	4	2.9	− 35	44.1	8.2 ✓
142	− 35°	1574	4	3.7	− 35	45.4	8.6 ✓
143	− 35°	1572	4	3.6	− 35	28.5	9.2 ✓
144	− 35°	1568	4	2.8	− 35	20.1	9.2 ✓
145	− 34°	1521	4	2.5	− 34	37.4	8.0 ✓
146	− 34°	1532	4	3.9	− 34	27.0	7.5 ✓
147	− 34°	1545	4	5.4	− 34	49.4	7.3 ✓
148	− 34°	1556	4	6.3	− 34	25.8	8.3 ✓
149	− 35°	1588	4	6.1	− 35	36.1	6.1 ✓
150	− 35°	1602	4	7.5	− 35	16.6	8.3 ✓
151	− 36°	1624	4	7.2	− 36	22.4	9.6 ✓
152	− 36°	1625	4	7.2	− 36	13.7	9.6 ✓
153	− 36°	1626	4	7.3	− 36	17.7	9.4 ✓
154	− 35°	1618	4	10.0	− 35	29.5	7.6 ✓
155	− 34°	1578	4	8.7	− 34	53.0	8.7 ✓
156	− 34°	1570	4	7.7	− 34	31.8	9.0 ✓
157	− 34°	1593	4	10.6	− 34	41.3	7.3 ✓
158	− 34°	1596	4	10.9	− 34	27.9	7.7 ✓
159	− 38°	1350	4	51.6	− 38	24.1	9.4 ✓
160	− 38°	1365	4	53.0	− 38	57.3	9.0 ✓
161	− 38°	1370	4	53.6	− 38	24.1	9.3 ✓
162	− 38°	1398	4	54.6	− 38	38.8	8.8 ✓

cards made out

note change of numbering in ident. only

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912.
B39655 shut disp.

No.	Int.	Class	Remark
163	2	Go	
164	1	K	
165	2	F5	
166	3	G5	
167	1	G5	
168	2	K0	
169	3	G5	
170	2	G	
171	1	G5	
172	2	G5	
173	3	K0	
174	3	A5	Difficult.
175	2	K5	
176	2	K2	

Time: 10.08

163	−37°	1556	3	55.6	−37	20.1	9.0 ✓
164	−37°	1560	3	56.0	−37	28.1	8.7 ✓
165	−37°	1567	3	56.8	−37	10.2	9.0 ✓
166	−37°	1543	3	53.9	−37	9.9	8.5 ✓
167	−36°	1549	3	55.1	−36	37.5	8.7 ✓
168	−36°	1583	3	58.3	−36	40.1	9.0 ✓
169	−36°	1563	3	56.3	−36	31.9	8.8 ✓
170	−36°	1566	3	56.8	−36	19.0	9.1 ✓
171	−39°	1272	3	54.4	−39	46.8	9.5 ✓
172	−40°	1176	1	40	0.9	9.6 ✓	
173	−40°	1178	3	55.2	−40	14.4	9.2 ✓
174	−40°	1185	3	57.1	−40	16.9	9.3 ✓
175	−40°	1187	3	57.2	−40	34.6	9.5 ✓
176	−40°	1193	3	58.1	−40	39.0	9.1 ✓

Identified by ANS. Sept. 6. 1912
Checked by J.C.M. Sept. 19, 1912
cards made out by M.C.W.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912

Time: 10.10

B 4108 short diffs.

No	Int.	Class	Remark
1	6	F	E.
2	4	K0	
3	2	K1	
4	1	A	
5	2	K0	
6	7	A3	
7	3	F8	
8	2	G	
9	4	A0	
10	10+	A	
11	5	F0	
12	4	G0	
13	8	A2	
14	1	G5	
15	3	A2	
16	6	A5	
17	3	F8	
18	2	F2	
19	3	G0	
20	10	G5	
21	12	G	
22	1	G	
23	1	G0	
24	8	F5	
25	2	G5	
26	7	G5	
27	2	G5	

1	−33°	1569	4	3.5	−33	11.5	7.1
2	−33°	1581	4	4.8	−33	18.2	7.8
3	−33°	1583	4	5.2	−33	29.5	8.5
4	−33°	1599	4	6.6	−33	40.1	8.8
5	−33°	1613	4	8.1	−33	27.5	9.2
6	−33°	1614	4	8.2	−33	6.8	7.1
7	−33°	1620	4	8.8	−33	49.4	7.7
8	−33°	1636	4	11.0	−33	17.8	8.8
9	−32°	1693	4	12.4	−32	57.8	8.7
10	−34°	1614	4	13.2	−34	6.4	3.3
11	−34°	1613	4	13.2	−34	29.6	7.5
12	−34°	1622	4	14.1	−34	25.7	8.0
13	−34°	1626	4	14.4	−34	12.4	6.7
14	−34°	1643	4	16.6	−34	7.7	8.7
15	−34°	1644	4	16.7	−34	13.7	8.7
16	−35°	1666	4	16.2	−35	1.9	7.8
17	−35°	1677	4	17.4	−35	12.0	8.5
18	−35°	1682	4	18.3	−35	7.6	8.7
19	−35°	1692	4	19.3	−35	2.3	8.5
20	−34°	1664	4	19.3	−34	19.0	4.0
21	−34°	1661	4	19.2	−34	41.2	8.7
22	−34°	1672	4	19.9	−34	34.6	9.8
23	−34°	1673	4	20.0	−34	51.0	9.3
24	−35°	1704	4	20.3	−35	2.6	6.7
25	−35°	1686	4	18.5	−35	45.4	9.1
26	−35°	1687	4	18.5	−35	50.7	6.7
27	−36°	1695	4	18.3	−36	50	8.7

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912.

B 41080 short disps.

No.	Int.	Class	Remark
28	4	Fz	
29	4	fy5	
30	5	d5	
31	1	F	
32	2	fy5	
33	4	F5	
34	6	fy0	
35	3	Fo	
36	1	F	
37	1	fy	
38	1	fy	
39	1	F	Nearly all superposed on 38.
40	1	fy0	
41	1	Fo	
42	1	Fo	
43	3	fy0	
44	8	fy	
45	4	Fo	
46	5	F0	
47	2	Fa	
48	2	F5	
49	2	fy	
50	5	Fo	
51	1	fy	
52	2	Fo	
53	5	fy5	
54	3	Oz	

28	− 36°	1703	4	18.7	− 36	37.8	8.3
29	− 36°	1698	4	18.5	− 36	45.9	7.7
30	− 36°	1706	4	19.3	− 36	45.5	8.0
31	− 36°	1711	4	20.3	− 36	44.9	8.7
32	− 35	1698	4	19.8	− 35	52.9	9.4
33	− 36°	1710	4	20.2	− 36	4.9	9.1
34	− 35°	1710	4	20.8	− 35	57.3	7.7
35	− 35°	1699	4	19.8	− 35	34.0	8.3
36	− 35°	1702	4	20.2	− 35	34.0	9.3
37	− 35°	1703	4	20.3	− 35	25.2	9.4
38	− 35°	1711	4	20.9	− 35	9.4	9.4
39	− 35°	1713	4	20.9	− 35	7.7	8.8
40	− 34°	1688	4	21.5	− 34	58.7	9.0
41	− 35°	1720	4	21.5	− 35	19.2	8.7
42	− 35°	1729	4	22.5	− 35	40.9	9.5
43	− 35°	1753	4	24.9	− 35	33.8	9.1
44	− 35°	1768	4	26.1	− 35	55.6	6.4
45	− 36°	1756	4	26.7	− 36	2.6	7.5
46	− 36°	1760	4	27.0	− 36	10.7	8.0
47	− 36°	1755	4	26.6	− 36	30.8	8.1
48	− 36°	1749	4	25.0	− 36	50.4	9.0
49	− 37°	1786	4	26.2	− 37	0.5	9.0
50	− 37°	1788	4	26.4	− 37	8.5	6.8
51	− 36°	1765	4	28.0	− 36	36.8	8.5
52	− 37°	1799	4	28.7	− 37	12.8	8.5
53	− 35°	1791	4	28.4	− 35	57.6	8.0
54	− 35°	1795	4	29.5	− 35	5.9	9.0

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912.

B41080 short disp.

No.	Int.	Class	Remark
55	6	Jk0	
56	6	Gf5	
57	6	Gf5	
58	2	A	
59	1	Jf	
60	2	A2	
61	3	Jk0	
62	1	A	
63	1	Jf	
64	4	Jf8	
65	1	Gf5	
66	4	Jf5	
67	4	Jk0	
68	5	Jf5	
69	2	Jk2	
70	4	Gf0	
71	8	Jk2	
72	2	Gf0	
73	3	Jk0	
74	3	Gf	
75	6	Jk0	
76	4	Gf0	
77	4	Jf8	
78	5	Jf8	
79	2	Jf5	
80	1	Gf	
81	7	Bg	

55	− 35°	1798	4	30.1	− 35	4.6	7.1	∧ ∨
56	− 35°	1797	4	30.1	− 35	55.1	7.5	∧ ∪
57	− 35°	1801	4	30.4	− 35	50.3	7.3	∧ ∨
58	− 36°	1787	4	30.4	− 36	1.1	9.0	∧ ∨
59	− 36°	1788	4	30.5	− 36	12.1	8.5	∧ ∪
60	− 36°	1801	4	32.4	− 36	5.6	8.9	∧ ∨
61	− 35°	1821	4	32.5	− 35	52.1	7.7	∧ ∨
62	− 35°	1830	4	33.4	− 35	46.9	9.3	∧ ∣
63	− 35°	1837	4	34.0	− 35	45.9	8.9	∧ ∨
64	− 35°	1838	4	34.1	− 35	33.2	8.5	∧ ∪
65	− 35°	1834	4	33.9	− 35	26.2	9.6	∧ ∨
66	− 35°	1851	4	35.2	− 35	24.7	8.4	∧ ∪
67	− 35°	1857	4	35.6	− 35	15.7	7.9	∧ ∨
68	− 35°	1852	4	35.8	− 35	53.6	8.3	∧ ∪
69	− 36°	1819	4	34.4	− 36	25.9	8.6	∧ ∨
70	− 35°	1877	4	37.6	− 35	42.6	8.5	∧ ∪
71	− 35°	1882	4	38.3	− 35	44.9	8.0	∧ ∣
72	− 35°	1870	4	37.3	− 35	21.3	9.0	∧ ∪
73	− 35°	1886	4	38.5	− 35	4.9	8.3	∧ ∨
74	− 34°	1828	4	38.2	− 34	50.5	9.0	∧ ∪
75	− 34°	1830	4	38.2	− 34	27.2	7.4	∧ ∪
76	− 33°	~~1834~~ 1875	4	37.0	− 33	~~47.5~~ 4.7	8.5	∧ ∪
77	− 33°	1886	4	38.3	− 33	39.6	8.2	∧ ∪
78	− 33°	1906	4	40.4	− 33	16.2	7.7	∧ ∨
79	− 33°	1921	4	41.2	− 33	25.4	8.7	∧ ∪
80	− 33°	1922	4	41.5	− 33	52.4	8.5	∧ ∪
81	− 34°	1859	4	41.2	− 34	13.9	6.7	∧ ∪

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May. 28, 1912.

B 41080 short disp.

No.	Int.	Class	Remark
82	3	h5	
83	2	J8	
84	5	h0	
85	4	J8	E.
86	6	h5	
87	4	J0	
88	2	h	D, b, 10:
89	6	h5	
90	4	J	Poorfocus
91	6	h5	
92	1	h5	
93	3	J0	
94	3	h5	
95	3	J8	
96	1	a	
97	3	h0	
98	2	J8	
99	2	J0	
100	4	h5	
101	2	J5	
102	3	h0	
103	2	J0	
104	1	h	
105	2	a0	
106	2	h5	
107	2	J	
108	3	h5	

82	−33°	1937	4	42.6	−33	50.3	8.0
83	−33°	1944	4	43.5	−33	30.0	8.7
84	−33°	1952	4	44.3	−33	41.2	7.9
85	−33°	1957	4	44.9	−33	18.8	8.3
86	−34°	1893	4	44.6	−34	31.7	7.2
87	−35°	1879	4	41.8	−36	2.0	7.5
88	−36°	1884	4	42.9	−36	25.4	7.6
89	−31°	1739	4	7.5	−31	53.6	7.3
90	−31°	1744	4	8.3	−31	36.0	8.0
91	−32°	1671	4	9.1	−32	21.3	7.3
92	−32°	1672	4	9.2	−32	10.5	9.0
93	−32°	1683	4	10.4	−32	6.1	8.3
94	−32°	1689	4	11.3	−32	2.5	8.5
95	−32°	1688	4	11.1	−32	18.2	8.5
96	−32°	1684	4	10.4	−32	33.7	9.4
97	−31°	1774	4	11.3	−31	10.6	8.5
98	−31°	1782	4	12.9	−31	24.2	8.7
99	−31°	1786	4	13.5	−31	9.9	8.5
100	−31°	1794	4	14.2	−31	38.3	7.7
101	−31°	1795	4	14.5	−31	52.7	8.5
102	−31°	1811	4	16.3	−31	29.5	8.3
103	−31°	1823	4	17.7	−31	21.5	8.5
104	−32°	1717	4	15.1	−32	12.5	9.0
105	−32°	1738	4	17.2	−32	11.8	9.5
106	−32°	1738	4	17.1	−32	29.3	9.1
107	−32°	1748	4	17.7	−32	22.3	9.8
108	−33°	1691	4	16.2	−33	10.1	8.0

Cards made out

mean 94
−32° 1748 subspread

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday May. 28, 1912.
B 41080 chart disp.

No.	Int.	Class	Remark
109	2	fp	
110	1	fy	
111	2	fy	
112	8	A2	
113	1	fy5	
114	2	fp	
115	1	F5	
116	3	F5	
117	3	fy5	
118	3	K0	
119	7	F0	
120	2	K0	
121	3	K0	
122	7	F5	
123	2	F0	
124	5	F2	
125	3	A0	
126	3	K0	
127	7	F0	
128	1	K	
129	2	A	
130	1	A	
131	2	fy	
132	2	F5	
133	6	B9	
134	2	fp	
135	5	B9	

109	− 33°	1671	4	14.4	− 33	29.8	9.0 ^ J
110	− 32°	1697	4	13.2	− 32	59.8	9.1 ^ J
111	− 33°	1684	4	15.5	− 33	18.8	9.0 ^ J
112	− 32°	1758	4	15.5	− 32	27.0	6.9 ^ J
113	− 32°	1764	4	19.2	− 32	22.4	9.3 ^ J
114	− 32°	1767	4	19.4	− 32	24.1	9.7 ^ J
115	− 32°	1768	4	19.6	− 32	19.4	9.6 ^ J
116	− 32°	1766	4	19.4	− 32	18.4	9.0 ^ J
117	− 33°	1720	4	20.4	− 33	0.3	8.5 ^ J
118	− 33°	1723	4	21.1	− 33	14.4	8.5 ^ J
119	− 33°	1728	4	21.8	− 33	6.1	7.2 ^ J
120	− 33°	1733	4	22.5	− 33	3.1	8.8 ^ J
121	− 33°	1738	4	22.9	− 33	>6.8	8.5 ^ J
122	− 32°	1797	4	22.9	− 32	41.9	7.0 ^ J
123	− 32°	1803	4	23.2	− 32	30.0	9.3 ^ J
124	− 32°	1812	4	23.8	− 32	45.6	8.0 ^ J
125	− 32°	1818	4	24.4	− 32	24.7	9.0 ^ J
126	− 32°	1830	4	25.7	− 32	36.2	8.7 ^ J
127	− 32°	1837	4	26.8	− 32	47.6	8.0 ^ J
128	− 32°	1838	4	26.8	− 32	39.6	9.1 ^ J
129	− 33°	1777	4	26.7	− 33	10.2	9.0 ^ J
130	− 33°	1713	4	18.9	− 33	45.5	9.0 ^ J
131	− 34°	1689	4	21.6	− 34	25.2	8.7 ^ J
132	− 33°	1758	4	25.3	− 33	48.9	8.3 ^ J
133	− 34°	1736	4	27.3	− 34	10.3	7.9 ^ J
134	− 34°	1731	4	27.0	− 34	3.3	9.3 ^ J
135	− 33°	1737	4	28.2	− 33	22.2	7.9 ^ J

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912.
B 41050 shot disk.

No.	Int.	Class	Remark
136	1	F8	
137	3	G5	
138	4	G5	
139	3	F5	
140	5	G5	
141	5	G5	
142	5	G5	
143	2	A	
144	1	K	
145	4	K0	
146	3	K0	
147	3	K0	
148	5	F0	
149	2	A2	
150	2	G0	
151	3	F0	
152	2	K0	
153	1	A	
154	1	K	
155	4	F5	
156	7	A2	
157	1	K	
158	3	F	
159	4	K2	
160	2	K2	
161	10	K	Burned out.
162	4	F0	

136	−33°	1809	4	30.0 − 33	23.8	9.0	∧ ∨
137	−33°	1810	4	30.2 − 33	35.9	7.7	∧ ∨
138	−33°	1806	4	29.9 − 33	54.6	7.5	∧ ∨
139	−33°	1828	4	32.0 − 33	52.0	8.3	∧ ∨
140	−34°	1785	4	33.5 − 34	22.3	7.7	∧ ∨
141	−34°	1794	4	34.8 − 34	15.4	7.5	∧ ∨
142	−33°	1858	4	34.7 − 33	40.6	7.7	∧ ∨
143	−31°	1842	4	19.9 − 31	47.7	8.7	∧ ∨
144	−31°	1837	4	19.2 − 31	8.1	8.5	∧ ∨
145	−30°	1820	4	21.3 − 30	36.8	7.7	∧ ∨
146	−30°	1827	4	21.9 − 30	16.8	8.1	∧ ∨
147	−30°	1832	4	22.5 − 30	14.3	8.3	∧ ∨
148	−30°	1842	4	23.6 − 30	2.5	8.0	∧ ∨
149	−30°	1841	4	23.6 − 30	31.8	8.7	∧ ∨
150	−31°	1867	4	23.0 − 31	1.5	8.3	∧ ∨
151	−31°	1863	4	22.4 − 31	18.8	8.4	∧ ∨
152	−31°	1855	4	21.7 − 31	10.4	8.7	∧ ∨
153	−31°	1854	4	21.5 − 31	4.1	9.0	∧ ∨
154	−31°	1853	4	21.3 − 31	11.1	8.9	∧ ∨
155	−31°	1869	4	23.6 − 31	43.8	8.0	∧ ∨
156	−30°	1857	4	25.5 − 30	42.6	7.5	∧ ∨
157	−30°	1853	4	25.2 − 30	31.8	8.5	∧ ∨
158	−30°	1855	4	25.2 − 30	13.9	8.5	∧ ∨
159	−30°	1866	4	26.6 − 30	3.3	8.0	∧ ∨
160	−30°	1875	4	27.4 − 30	22.6	8.3	∧ ∨
161	−30°	1883	4	28.6 − 30	1.7	4.7	∧ ∨
162	−30°	1891	4	29.2 − 30	50.3	7.7	∧ ∨

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912.

B 41080 short disp.

No.	Int.	Class	Remark
163	2	fp	
164	2	fp	
165	5	fz	
166	3	fz	
167	2	fp	
168	1	a	
169	2	fs	
170	2	Ip	
171	4	fs	
172	2	fs	
173	3	fs	
174	4	fz	
175	10	f	
176	3	fs	
177	9	a	
178	6	Ip	
179	3	fp	
180	5	fz	
181	2	Kp	
182	2	Int	
183	2	as	E.
184	2	f	E.
185	8	K	E.
186	2	Ip	
187	6	fp	
188	4	fs	
189	2	fp	

163	−31°	1895	4	27.0	−31	11.4	8.1
164	−31°	1906	4	28.2	−31	23.8	8.3
165	−31°	1893	4	26.8	−31	47.2	7.4
166	−31°	1890	4	26.7	−31	57.7	8.0
167	−32°	1857	4	28.5	−32	18.3	8.9
168	−32°	1851	4	28.1	−32	49.0	9.5
169	−31°	1918	4	29.8	−31	38.7	8.5
170	−32°	1888	4	31.9	−32	3.1	8.3
171	−31°	1908	4	32.9	−31	39.6	7.7
172	−31°	1951	4	33.5	−31	37.5	8.5
173	−31°	1954	4	33.6	−31	23.9	8.5
174	−31°	1962	4	34.1	−31	27.6	8.0
176	−30°	1901	4	30.7	−30	49.8	3.7
176	−31°	1927	4	31.5	−31	5.1	8.0
177	−30°	1911	4	32.0	−30	58.3	6.3
178	−30°	1915	4	32.2	−30	41.6	7.0
179	−30°	1916	4	32.3	−30	12.1	8.3
180	−30°	1918	4	32.7	−30	9.1	8.0
181	−30°	1932	4	34.4	−30	50.6	8.6
182	−30°	1934	4	34.5	−30	42.2	8.3
183	−30°	1953	4	36.7	−30	42.0	8.5
184	−31°	1985	4	36.7	−31	3.0	8.5
185	−30°	1968	4	38.3	−30	59.9	6.2
186	−32°	1932	4	36.3	−32	27.4	8.5
187	−31°	1997	4	38.1	−31	56.7	7.2
188	−31°	2004	4	39.3	−31	42.6	7.1
189	−32°	1947	4	38.9	−32	~~42.7~~ 42.7	~~8.0~~ 8.0

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, May 28, 1912.

B41080 shot disp.

No.	Int.	Class	Remark
190	2	K2	
191	1	ly	
192	1	ly	
193	1	K	E.
194	6	ly5	
195	4	K0	
196	7	F0	
197	7	F0	
198	5	K5	
199	8	F5	E.
200	2	K	E.
201	2	K2	E.
202	2	A	E.

Time : 10.45

203	5	F0	
× 204.	3	F0	

190	−32°	1949	H	38.9 − 32	29.9	8.0	∧ J
191	− 33°	1897	H	39.2 − 33	1.3	9.1	∧ J
192	− 33°	1901	H	40.1 − 33	6.3	9.0	∧ J
193	−32°	1963	H	40.5 − 32	15.7	8.6	∧ V
194	−29°	1728	H	22.5 − 29	29.3	7.7	∧ J
195	−29°	1746	H	24.8 − 29	18.2	7.7	∧ J
196	−29°	1748	H	25.0 − 29	9.0	7.5	∧ V
197	−29°	1760	H	26.4 − 29	9.0	7.5	∧ J
198	−29°	1770	H	27.1 − 29	4.1	7.7	∧ J
199	−28°	1608	H	29.0 − 28	42.7	6.9	∧ J
200	−29°	1784	H	29.1 − 29	27.7	8.0	∧ J
201	−29°	1794	H	30.3 − 29	37.3	8.5	∧ J
202	−29°	1793	H	30.3 − 29	54.0	8.5	∧ V

Identified by AMC. Oct. 23, 1912.

Checked Oct. 17, 1912. EDW.

cards made out by M. C. W.

Cards checked by EKR.

✓ 203	−34°	1556	H	6.3 −34	26	8.3	148 on B39655
✓ 204	−34°	1596	H	10.9 −34	28	8.7	158 " "

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Saturday June 1, 1912

Time 11.22

B 41076

No.	Dist.	class	Remark
1	7	G5	
2	3	F0	
3	2	F5	
4	3	G0	
5	2	G5	Poor image
6	8	F0	
7	7	Q0	
8	~~7~~ 3	N	0, 8, 10
9	2	K	
10	2	G	
11	5	K0	
12	3	G0	
13	4	G0	
14	2	G0	
15	5	K0	
16	5	F8	
17	4	Q3	
18	4	K0	
19	2	K2	
20	4	Md	$H\beta_{11}$ 10 $H\gamma$ $H\delta_{12}$ 7 Cont. $H\gamma$ = Mb nuMe
21	8	F2	
22	10	Q0	
23	2	K	E.
24	9	K	E
25	8	Q3	E.
26	6	F5	E.
27	2	G	

1	-45°	1286	3	46.0	-45	45.7	7.5	∧V
2	-45°	1287	3	46.2	-45	33.2	9.1	∧J
3	-45°	1280	3	45.3	-45	9.7	9.2	∧V
4	-44	1289	3	45.3	-44	43.6	8.9	∧V
5	-45°	1291	3	46.9	-45	0.0	9.3	∧V
6	-44°	1303	3	47.0	-44	44.4	8.1	∧J
7	-44°	1301	3	46.9	-44	26.9	8.1	∧J
8	-43°	1198	3	45.9	-43	54.7	8.5	∧J
9	-43°	1210	3	47.7	-43	54.7	9.3	∧J
10	-43°	1214	3	48.7	-43	31.0	9.5	∧V
11	-43°	1221	3	49.6	-43	32.0	7.7	∧V
12	-42°	1307	3	52.3	-42	59.5	9.1	∧J
13	-42°	1312	3	53.0	-42	51.3	9.0	∧V
14	-43°	1238	3	52.8	-43	18.2	9.0	∧V
15	-43°	1235	3	52.1	-43	28.8	7.5	∧J
16	-43°	1236	3	52.2	-43	59.1	8.1	∧V
17	-44°	1312	3	48.4	-44	32.4	8.3	∧J
18	-45°	1306	3	48.6	-45	19.2	8.3	∧J
19	-45°	1309	3	48.6	-45	56.6	8.8	∧V
Not a catalogue star - Announced 1900 Pos.			3	49.6	-46	8	Var.	W Hoadley
20	~~-46~~	~~1241~~	3	49.0	-46	11.6	9.9	
21	-46°	1206	3	47.9	-46	32.4	8.1	∧J
22	-46°	1226	3	50.7	-46	47.0	7.3	∧V
23	-46°	1223	3	50.2	-46	38.5	8.6	∧J
24	-47°	1187	3	49.7	-47	15.9	6.4	∧V
25	-47°	1178	3	47.9	-47	41.6	6.7	∧V
26	-46°	1243	3	54.0	-46	44.3	7.7	∧V
27	-46°	1256	3	55.6	-46	30.4	9.4	∧V

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 1, 1912 (cont.)

B410976

No.	Int.	Class	Remark
28	1	K	
29	6	G5	
30	2	G5	
31	4	G5	
32	7	A5	
33	2	G5	
34	5	F2	
35	10	F	
36	2	K2	
37	4	F5	E
38	5	K	E
39	3	K	E
40	7	F5	
41	6	G5	
42	3	K0	
43	2	K	E
44	5	G0	
45	4	A5	
46	5	G5	
47	2	K0	
48	4	K2	
49	3	G5	
50	10	G0	
51	2	G5	
52	2	F	
53	3	F5	
54	4	F5	

28	-46°	1260	3	55.9	-46	35.2	9.6	∧ ∨
29	-46°	1268	3	57.4	-46	29.1	7.2	∧ ∨
30	-47°	1226	3	55.5	-47	6.5	9.0	∧ ∨
31	-46°	1283	4	0.7	-46	14.6	7.9	∧ ∨
32	-46°	1293	4	1.7	-46	0.3	7.4	∧ ∨
33	-46°	1294	4	1.7	-46	28.0	9.3	∧ ∨
34	-46°	1303	4	3.3	-46	37.8	8.0	∧ ∨
35	-46°	1314	4	4.7	-46	11.8	6.7	∧ ∨
36	-47°	1263	4	1.9	-47	8.4	8.2	∧ ∨
37	-47°	1267	4	2.7	-47	46.5	9.1	∧ ∨
38	-47°	1280	4	5.0	-47	43.5	7.6	∧ ∨
39	-47°	1284	4	5.8	-47	45.5	8.1	∧ ∨
40	-47°	1291	4	7.3	-47	15.7	7.1	∧ ∨
41	-47°	1296	4	8.0	-47	24.6	7.2	∧ ∨
42	-47°	1300	4	8.3	-47	38.4	8.7	∧ ∨
43	-47°	1303	4	9.0	-47	53.0	8.8	∧ ∨
44	-45°	1406	4	3.2	-45	16.8	8.2	∧ ∨
45	-45°	1412	4	4.3	-45	32.9	8.8	∧ ∨
46	-45°	1429	4	6.6	-45	50.2	8.4	∧ ∨
47	-45°	1435	4	7.7	-45	32.9	9.1	∧ ∨
48	-45°	1444	4	8.8	-45	41.2	8.1	∧ ∨
49	-46°	1344	4	9.9	-46	8.1	8.8	∧ ∨
50	-46°	1347	4	10.3	-46	26.6	6.8	∧ ∨
51	-46°	1355	4	11.9	-46	16.4	9.0	∧ ∨
52	-45°	1455	4	10.4	-45	42.9	9.5	∧ ∨
53	-45°	1454	4	10.4	-45	35.4	9.0	∧ ∨
54	-45°	1458	4	10.6	-45	7.6	8.9	∧ ∨

Chas made

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

June 1, 1912 (cont.)

B 41076

No.	Int.	Class	Remark
55	3	G	Focus poor
56	4	G	"
57	3	F5	"
June 11,35 58	3	A	
" 11.40 59	10	G	
60	3	G0	Myth a trail
61	3	F	
62	5	G0	
63	4	K2	
64	3	F	
65	6	K0	E
66	2	K	E
67	2	G	E
68	4	A2	
69	6	G5	
70	3	A	
71	2	G	
72	5	F5	
73	8	F0	
74	7	A0	
75	10	F5	
76	3	G5	
77	8	B8	Lots up on long disp.
78	2	G0	
79	3	F2	
80	3	K0	
81	4	A2	

55	-44°	1467	4	11.4	-44	55.5	9.4	∧∨
56	-44°	1479	4	12.7	-44	43.2	8.7	∧∨
57	-44°	1480	4	12.8	-44	36.3	8.7	∧∨
58	-44°	1497	4	14.6	-44	22.3	9.3	∧∨
59	-44°	1503	4	15.3	-44	34.1	5.8	∧∨
60	-44°	1505	4	15.4	-44	34.5	9.3	∧∨
61	-45°	1471	4	12.7	-45	42.0	8.6	∧∨
62	-45°	1482	4	14.2	-45	57.6	7.6	∧∨
63	-47°	1323	4	12.9	-47	24.3	8.4	∧∨
64	-46°	1370	4	15.0	-46	57.3	9.3	∧∨
65	-47°	1338	4	15.5	-47	52.2	7.1	∧∨
66	-47°	1344	4	17.1	-47	33.0	8.7	∧∨
67	-47°	1345	4	17.7	-47	8.4	9.3	∧∨
68	-45°	1497	4	16.9	-45	33.5	9.2	∧∨
69	-45°	1502	4	17.4	-45	20.2	7.3	∧∨
70	-44°	1517	4	17.3	-44	45.1	9.4	∧∨
71	-44°	1511	4	16.7	-44	35.6	9.5	∧∨
72	-44°	1528	4	18.4	-44	5.9	8.9	∧∨
73	-43°	1407	4	19.8	-43	44.8	7.9	∧∨
74	-44°	1542	4	20.6	-44	18.6	8.2	∧∨
75	-44°	1546	4	21.4	-44	26.9	6.6	∧∨
76	-45°	1530	4	21.0	-45	0.9	8.8	∧∨
77	-45°	1537	4	21.9	-45	8.2	7.5	∧∨
78	-45°	1527	4	20.4	-45	12.9	9.2	∧∨
79	-45°	1523	4	20.0	-45	22.7	8.9	∧∨
80	-45°	1513	4	19.0	-45	46.7	8.4	∧∨
81	-45°	1521	4	19.8	-45	52.0	9.0	∧∨

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 1, 1912 (Cont.)

B41076

No.	Int.	Class	Remark
82	3	A	E
83	2	A	E
June 11.45 84	5	A2	E ~~Forb. sup.~~
" 11.54 85	3	F	
86	3	G5	
87	4	G5	
88	3	A	
89	4	A5	
90	2	K	Difficult
91	3	G5	
92	1	A2	
98	2	F8	
94	2	K2	
95	8	M0	
96	2	F2	
97	6	A3	
98	3	K0	
99	1	Bq	
100	8	Bq	Difficult
101	3	A	E
102	4	A2	E
103	10	B3	~~Damnit nit thunder.~~ B5774 long disp.
104	3	F5	
105	2	G	
106	4	G	E
107	3	K5	E
108	3	K2	E

82	-45°	1588	4	21.7	-45	50.7	9.4	~~9.4~~ ∧ ∨
83	-45°	1539	4	22.3	-45	34.0	9.4	∧ ∨
84	-45°	1548	4	24.3	-45	47.0	8.6	∧ ∨
85	-44°	1562	4	23.2	-44	46.1	9.3	∧ ∨
86	-43°	1421	4	21.4	-43	57.4	8.9	∧ ∨
87	-43°	1420	4	21.4	-43	26.0	8.9	∧ ∨
88	-43°	1419	4	21.3	-43	17.4	9.6	∧ ∨
89	-42°	1492	4	21.9	-42	41.4	8.9	∧ ∨
90	-42°	1502	4	22.9	-42	49.2	9.4	∧ ∨
91	-42°	1503	4	23.1	-42	55.7	8.7	∧ ∨
92	-43°	1431	4	24.0	-43	2.0	8.0	∧ ∨
93	-42°	1507	4	23.8	-42	30.2	9.8	∧ ∨
94	-42°	1509	4	24.0	-42	24.4	8.8	∧ ∨
95	-42°	1510	4	24.1	-42	14.2	6.9	∧ ∨
96	-42°	1515	4	24.8	-42	17.0	9.3	∧ ∨
97	-42°	1520	4	25.2	-42	28.5	7.8	∧ ∨
98	-42°	1523	4	25.4	-42	49.3	8.9	∧ ∨
99	-43°	1452	4	26.5	-43	29.0	7.0	∧ ∨
100	-43°	1453	4	26.5	-43	40.6	7.3	∧ ∨
101	-43°	1456	4	26.9	-43	28.1	9.4	∨
102	-44°	1596	4	27.1	-44	32.5	8.6	∧ ∨
103	-45°	1467	4	27.0	-45	13.4	5.0	∧ ∨
104	-45°	1459	4	25.9	-45	21.4	8.9	∧ ∨
105	-45°	1462	4	26.4	-45	21.8	9.2	∧ ∨
106	-45°	1571	4	27.3	-45	37.5	8.3	∧ ∨
107	-45°	1469	4	27.0	-45	52.0	8.1	∧ ∨
108	-43°	1180	3	43.2	-43	7.8	8.3	∧ ∨

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 1, 1912 (Cont.)

B41076

No.	Dist.	Class	Remark
109	8	A	E
110	3	Ko	
111	2	K	
112	2	k	
113	2	k	
114	4	F0	
115	7	F8	
116	2	K	
117	2	k5	
118	4	F8	
119	5	F8	
120	2	K2	
121	2	k0	
122	1	F	
123	3	F2	
124	3	F	
125	6	F5	
126	5	F0	
127	6	K	
128	4	k0	
129	2	K0	
130	2	A	
131	6	k5	
132	3	k0	
133	2	k0	
134	3	k5	
135	4	k0	

109	-43°	1196	3	45.6	-43	6.3	7.2	∧∨
110	-42°	1269	3	46.3	-42	57.9	8.3	∧∨
111	-43°	1194	3	45.5	-43	27.8	9.1	∧∨
112	-43°	1197	3	45.8	-43	16.3	9.2	∧∨
113	-43°	1201	3	46.4	-43	14.5	9.6	∧∨
114	-42°	1277	3	48.1	-42	20.7	8.2	∨
115	-41°	1185	3	49.1	-41	34.8	7.3	∧∨
116	-41°	1187	3	49.7	-41	36.3	9.1	∧∨
117	-41°	1196	3	50.9	-41	36.2	9.0	∧∨
118	-41°	1202	3	51.5	-41	26.4	8.4	∧∨
119	-41°	1203	3	51.8	-41	50.3	8.1	∧∨
120	-41°	1208	3	52.3	-41	42.8	8.7	∧∨
121	-42°	1291	3	49.9	-42	14.5	9.1	∧∨
122	-41°	1204	3	51.9	-41	57.5	9.3	∧∨
123	-42°	1343	3	53.1	-42	2.8	9.3	∧∨
124	-42°	1340	3	54.2	-42	11.9	9.0	∧∨
125	-42°	1328	3	55.1	-42	14.8	8.1	∧∨
126	-42°	1328	3	54.8	-42	38.2	8.4	∧∨
127	-42°	1333	3	55.8	-42	44.8	7.5	∧∨
128	-42°	1335	3	56.3	-42	6.0	8.5	∧∨
129	-43°	1258	3	55.6	-43	32.6	8.8	∧∨
130	-43°	1246	3	53.9	-43	44.4	9.7	∧∨
131	-44°	1358	3	55.3	-44	16.3	7.0	∧∨
132	-44°	1341	3	53.1	-44	35.0	8.8	∧∨
133	-44°	1354	3	54.7	-44	38.8	8.9	∧∨
134	-45°	1347	3	53.7	-45	5.8	8.8	∧∨
135	-44°	1365	3	56.4	-44	50.7	9.1	∧∨

Curve made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 1, 1912 (Cont.)

1341076

No.	Int.	class	Remark
136	5	F8	
137	7	Q2	
138	2	K5	
139	5	B9	
140	5	G0	
141	3	K0	
142	8	A0	
143	4	K2	
144	6	G0	
145	5	K0	
146	2	G	
147	4	G0	
148	3	G0	
149	4	G5	
150	3	F8	
151	4	G0	
152	8	G5	
153	5	A5	
154	4	G5	
155	4	A	Maybe A5
156	4	F8	
157	3	A	
158	3	K0	
159	3	F5	Difficult.
160	7	K0	
161	6	F0	
162	3	F5	

136	-44°	1369	3	57.1	-44	47.7	8.4
137	-45°	1375	3	58.3	-45	0.7	8.1
138	-45°	1368	3	57.2	-45	12.0	9.1
139	-44°	1379	3	58.8	-44	38.6	8.6
140	-44°	1381	3	59.0	-44	44.0	8.2
141	-44°	1384	3	59.1	-44	56.1	9.1
142	-45°	1381	3	59.8	-45	4.6	7.7
143	-45°	1388	3	0.8	-45	0.5	8.0
144	-44°	1389	3	59.8	-44	49.4	8.7
145	-44°	1386	3	59.4	-44	28.9	7.7
146	-44°	1376	3	58.3	-44	10.8	9.7
147	-43°	1270	3	58.3	-43	39.6	8.8
148	-42°	1366	3	0.8	-42	15.0	8.7
149	-42°	1372	4	1.7	-42	17.9	8.4
150	-42°	1373	4	2.2	-42	44.1	8.4
151	-42°	1374	4	2.3	-42	42.0	8.3
152	-43°	1304	4	3.3	-43	14.8	6.8
153	-43°	1309	4	4.1	-43	11.1	8.1
154	-42°	1396	4	6.1	-42	56.7	7.8
155	-43°	1320	4	5.6	-43	57.3	8.8
156	-43°	1302	4	2.7	-43	41.4	8.9
157	-44°	1414	4	9.4	-44	20.0	9.4
158	-44°	1451	4	8.6	-44	11.6	8.3
159	-44°	1448	4	8.4	-44	31.1	9.2
160	-44°	1450	4	8.6	-44	41.3	7.0
161	-45°	1445	4	8.8	-45	0.0	8.7
162	-45°	1440	4	8.3	-45	17.5	9.4

Corder made

1388 3 59.7 44 47.9 weight 9.7 superposed

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 1, 1912 (Cont.)

B 41076

No.	Dist.	Class	Remark
163	2	F5	
164	1	G	
165	2	G	
166	10+	G	Burned out.
167	5	F0	
168	3	F0	
169	4	A3	
170	4	K0	
171	2	G5	
172	3	A2	
173	6	G5	
174	3	G0	
175	6	B9	
176	7	F5	
177	2	K0	
178	3	F5	
179	2	K0	
180	3	A	
181	4	F5	
182	3	F5	
183	4	F0	
184	5	G0	
185	2	K0	
186	3	G5	
187	2	G5	
188	3	K0	
189	3	G0	

163	-44°	1444	4	7.7	-44	57.4	9.4	∧ ∫
164	-45°	1439	4	7.8	-45	8.3	9.5	∧ ∨
165	-42°	1412	4	8.3	-42	57.5	7.1	∧ ∨
166	-42°	1425	4	9.9	-42	36.1	3.8	∧ ∨
167	-42°	1438	4	12.1	-42	56.3	7.8	∧ ∨
168	-43°	1376	4	14.6	-43	29.0	9.0	∧ ∨
169	-43°	1377	4	14.9	-43	55.4	8.6	∧ ∨
170	-43°	1381	4	15.7	-43	47.0	7.9	∧ ∨
171	-42°	1465	4	15.8	-42	58.8	9.0	∧ ∨
172	-43°	1388	4	17.0	-43	7.0	9.1	∧ ∨
173	-43°	1394	4	17.7	-43	5.1	7.7	∧ ∨
174	-42°	1472	4	17.6	-42	53.6	8.8	∧ ∫
175	-42°	1476	4	18.0	-42	3.6	8.3	∧ ∨
176	-41°	1386	4	17.7	-41	30.5	8.0	∧ ∨
177	-41°	1397	4	19.2	-41	32.5	8.6	∧ ∨
178	-42°	1481	4	19.7	-42	16.3	8.6	∧ ∨
179	-41°	1209	3	52.5	-41	12.3	8.8	∧ ∨
180	-41°	1213	3	52.8	-41	16.3	9.2	∧ ∨
181	-40°	1168	3	54.2	-40	48.0	8.5	∧ ∨
182	-41°	1248	3	57.1	-41	35.8	9.3	∧ ∨
183	-41°	1254	3	57.7	-41	16.9	9.0	∧ ∨
184	-41°	1272	3 4	0.4	-41	37.3	8.9	∧ ∨
185	-41°	1280	4	1.7	-41	57.4	8.6	∧ ∨
186	-41°	1289	4	2.8	-41	59.9	8.9	∧ ∫
187	-41°	1282	4	2.2	-41	39.8	9.0	∧ ∫
188	-41°	1293	4	3.7	-41	35.2	8.5	∧ ∨
189	-41°	1295	4	4.2	-41	48.8	8.8	∧ ∨

Curve made on

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 1, 1912 (cont.)

B41076

No.	Int.	Class	Remark
190	2	Y_5	
191	2	a	
192	3	Y_5	
193	10+	F	Burned pat.
194	2	Y_5	
195	5	A_5	
196	2	K_0	
197	3	Y_0	
198	5	Y_0	
199	2	K_2	
200	2	K_0	
June 12.22 201	2	a	
~~202~~			
202	4	A_2	
203	6	A_0	

Corde made

190	-41°	1300	4	5.5	-41	37.7	9.0	∧∨
191	-41°	1303	4	5.7	-41	55.4	9.5	∧∨
192	-42°	1393	4	5.9	-42	14.9	8.7	∧∨
193	-42°	1400	4	6.6	-42	19.2	5.3	∧∨
194	-41°	1321	4	8.8	-41	17.5	9.1	∧∨
195	-41°	1325	4	9.4	-41	42.3	8.5	∧∨
196	-42°	1457	4	14.9	-42	3.2	8.7	∧∨
197	-42°	1459	4	15.2	-42	15.4	8.7	∧∨
198	-42°	1464	4	15.6	-42	15.4	7.8	∧∨
199	-41°	1365	4	13.8	-41	38.2	8.7	∧∨
200	-40°	1290	4	10.0	-40	8.5	9.3	∧∨
201	-40°	1265	4	7.9	-40	15.8	9.3	∧∨

1360 1366 310 128
4 44 Image 9.6 sm purposes

Identified by J.C.M. July 3, 1912.
Checked July 30 1912. L.D.C.

202	-40°	1253	4	6.0	-40	40	9.3	17	on B39655
203	-39°	1408	4	11.8	-39	56	8.4	40	" "

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday June 3, 1912

Time 11.00

B 3841 3 short

No.	Dist.	Class	Remarks
1	6	Y5	
2	9.	K0	
3	2	K0	
4	2	F	
5	2	G	
6	8	Q0	
7	7	Y5	
8	4	K0	
9	2	K0	
10	2	Y5	
11	7	K0	
12	1	K0	
13	3.	F8	
14	10	Q5	
15	3	Y0	
16	3	F8	
17	3	F0	
18	3	K2	
19	3	K2	
20	3	K0	
21	4	F5	
22	2.	G0	
23	2	K5	
24	2.	K0	
25	3	K0	
26	7	G5	
27	6	Q2	

1	−50°	1209	3	53.3	−50	7.1	8.1 ✓
2	−49°	1166	3	54.7	−49	58.1	7.1 ✓
3	−49°	1157	3	53.4	−49	24.2	9.3 ✓
4	−49°	1159	3	53.7	−49	9.5	9.5 ✓
5	−49°	1161	3	53.3	−49	37.2	9.8 ✓
6	−49°	1174	3	55.5	−49	16.2	7.7 ✓
7	−48°	1136	3	53.2	−48	50.3	7.5 ✓
8	−48°	1144	3	54.5	−48	31.7	8.0 ✓
9	−48°	1163	3	57.6	−48	11.4	9.0 ✓
10	−48°	1167	3	57.9	−48	47.0	9.2 ✓
11	−48°	1174	3	59.3	−48	42.7	6.9 ✓
12	−48°	1173	3	59.3	−48	17.4	9.6 ✓
13	−48°	1178	3	59.8	−48	5.9	9.3 ✓
14	−48°	1181	4	0.0	−48	12.5	6.9 ✓
15	−48°	1182	4	0.0	−48	5.4	9.6 ✓
16	−47°	1257	3	59.8	−47	50.9	9.7 ✓
17	−47°	1257	4	0.6	−47	43.2	9.5 ✓
18	−47°	1261	4	1.5	−47	33.8	8.7 ✓
19	−48°	1183	4	0.9	−48	0.5	8.5 ✓
20	−48°	1186	4	1.2	−48	6.0	10 ✓ magn. 9.9 −48° 1187 Lupton
21	−48°	1188	4	1.6	−48	10.4	9.2 ✓
22	−46°	1297	4	2.5	−46	58.6	9.8 ✓
23	−47°	1243	4	3.3	−47	32.8	9.0 ✓
24	−48°	1208	4	5.2	−48	3.2	9.3 ✓
25	−48°	1205	4	4.7	−48	32.5	8.9 ✓
26	−48°	1204	4	4.6	−48	40.5	7.9 ✓
27	−48°	1211	4	5.5	−48	48.3	8.4 ✓

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 3, 1912 (Cont.)
B 38413

No.	Dur.	Class	Remarks
28	3	F0	
29	3	G5	
30	1	F5	
31	4	F8	
32	1	G5	
33	3	K0	
34	1	K	
35	2	K2	
36	2	G0	
37	2	G5	
38	3	K5	
39	1	K	
40	2	K0	
41	5	K0	
42	8	F0	
43	4	K0	
44	2	K0	
45	3	F8	
46	10	F0	
47	3	G5	
48	2	K	
49	4	K5	
50	3	Q2	
51	3	K2	
52	3	F5	
53	4	F5	
54	2	G5	

28	-48°	1195	4	3.4	-48	55.5	9.3 ✓
29	-49°	1215	4	2.6	-49	14.4	9.0 ✓
30	-49°	1181	3 4	56.7	-49	14.8	9.5 ✓
31	-49°	1184	3	57.1	-49	20.2	9.0 ✓
32	-49°	1189	3	58.5	-49	8.6	9.5 ✓
33	-49°	1192	3	59.1	-49	10.6	8.8 ✓
34	-49°	1178	3 4	56.4	-49	59.5	9.4 ✓
35	-50°	1233	3	57.2	-50	8.0	9.3 ✓
36	-49°	1186	3	57.8	-49	52.4	9.2 ✓
37	-50°	1224	3	56.4	-50	40.9	9.4 ✓
38	-50°	1227	3	56.6	-50	33.4	9.1 ✓
39	-50°	1220	3	56.9	-50	36.1	9.5 ✓
40	-50°	1237	3	57.7	-50	46.2	9.3 ✓
41	-50°	1242	3	58.1	-50	51.2	8.3 ✓
42	-50°	1245	3	58.5	-50	51.4	8.0 ✓
43	-50°	1255	4	0.2	-50	34.6	8.5 ✓
44	-50°	1264	4	1.1	-50	54.2	9.1 ✓
45	-49°	1218	4	3.0	-49	59.3	9.5 ✓
46	-49°	1220	4	3.3	-49	57.6	7.2 ✓
47	-50°	1275	4	4.2	-50	26.5	9.3 ✓
48	-50°	1276	4	4.3	-50	36.4	9.5 ✓
49	-50°	1278	4	4.5	-50	30.4	7.7 ✓
50	-50°	1281	4	5.3	-50	32.7	9.7 ✓
51	-50°	1279	4	4.6	-50	50.7	8.9 ✓
52	-50°	1286	4	6.2	-50	16.7	9.4 ✓
53	-49°	1233	4	6.1	-49	57.2	9.3 ✓
54	-49°	1234	4	6.2	-49	45.9	9.2 ✓

cards wacke out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 3, 1912 (Cont.)

B 38413

No.	Dist.	Class	Remark
55	3	K2	
56	4	G0	
57	2	G5	
58	2	K2	
59	5	G5	
60	3	K2	
61	2	F5	
62	6	K0	
63	2	F5	
64	7	B9	
65	1	G5	
66	2	Ma	
67	4	Ma	
68	2	G	
69	6	F0	
70	4	G0	
71	5	G5	
72	5	F0	
73	2	F5	
74	4	F8	
75	1	G5	
76	2	K0	Another star partly superposed
77	2	A2	
78	2	G5	
79	3	A2	
80	4	F2	
81	7	F0	

55	-49°	1224	4	4.3	-49	29.3	9.1	✓
56	-49°	1226	4	4.7	-49	30.6	9.1	✓
57	-49°	1229	4	5.2	-49	43.1	9.3	✓
58	-49°	1236	4	6.2	-49	27.9	9.1	✓
59	-49°	1248	4	8.6	-49	17.6	8.4	✓
60	-49°	1249	4	8.7	-49	7.9	8.4	✓
61	-49°	1250	4	9.0	-49	33.4	9.5	✓
62	-49°	1254	4	9.9	-49	26.4	8.3	✓
63	-49°	1259	4	10.7	-49	33.8	9.6	✓
64	-49°	1257	4	10.6	-49	58.8	8.6	✓
65	-50°	1311	4	9.9	-50	27.0	9.5	✓
66	-50°	1314	4	10.2	-50	54.1	8.4	✓
67	-50°	1320	4	11.0	-50	44.2	8.4	✓
68	-50°	1330	4	13.1	-50	15.6	9.4	✓
69	-49°	1284	4	14.6	-49	46.1	8.7	✓
70	-49°	1283	4	14.5	-49	59.1	9.0	✓
71	-50°	1342	4	15.4	-50	8.2	8.4	✓
72	-48°	1235	4	8.1	-48	17.9	8.9	✓
73	-48°	1238	4	9.0	-48	27.6	9.5	✓
74	-48°	1244	4	9.7	-48	35.4	9.3	✓
75	-48°	1246	4	10.1	-48	51.1	9.7	✓
76	-48°	1248	4	10.2	-48	25.4	9.1	✓
77	-48°	1249	4	10.3	-48	19.3	9.6	✓
78	-48°	1860	4	11.5	-48	32.4	9.5	✓
79	-48°	1861	4	11.9	-48	31.1	9.7	✓
80	-48°	1866	4	12.4	-48	37.8	9.4	✓
81	-48°	1271	4	13.3	-48	49.3	8.2	✓

magn. 9.7

-48° 1247 superposed

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 3, 1912 (Cont.)

1338413

No.	Int.	Class	Remark
82	3	K5	
83	6	B8	
84	5	K0	
85	8	Q2	
86	3	K0	
87	2	K0	
88	3	K0	
89	2	F5	Focus poor.
90	5	F0	
91	7	K5	
92	3	K0	
93	5	K0	
94	4	Q2	
95	8	K5	
96	2	K5	
97	4	K5	
98	2	K0	
99	1	K	
100	3	K0	
101	8	F5	
102	1	K5	
103	2	K	
104	3	K5	
105	2	K0	
106	10	F5	Burned out.
107	4	K0	
108	2	K0	

82	-49°	1273	4	13.1	-49	5.3	9.2 ✓
83	-48°	1279	4	14.4	-48	42.0	8.5 ✓
84	-48°	1287	4	15.1	-48	53.7	8.4 ✓
85	-49°	1297	4	17.6	-49	6.6	7.2 ✓
86	-48°	1309	4	17.8	-48	47.3	8.9 ✓
87	-49°	1305	4	18.3	-49	36.0	9.3 ✓
88	-50°	1362	4	18.4	-50	17.9	8.9 ✓
89	-50°	1344	4	16.2	-50	55.0	9.1 ✓
90	-51°	1088	4	16.4	-51	18.5	8.5 ✓
91	-51°	1096	4	17.7	-51	20.4	7.7 ✓
92	-47°	1317	4	12.1	-47	41.0	8.9 ✓
93	-47°	1323	4	12.9	-47	24.3	8.4 ✓
94	-46°	1370	4	15.0	-46	57.3	9.3 ✓
95	-47°	1338	4	15.5	-47	52.2	7.1 ✓
96	-48°	1278	4	14.0	-48	18.6	9.6 ✓
97	-47°	1344	4	17.1	-47	33.0	8.7 ✓
98	-47°	1345	4	17.7	-47	84	9.3 ✓
99	-47°	1361	4	20.0	-47	10.2	9.8 ✓
100	-47°	1366	4	20.6	-47	3.2	9.0 ✓
101	-46°	1404	4	20.6	-46	56.0	7.2 ✓
102	-46°	1394	4	18.9	-46	39.6	9.8 ✓
103	-45°	1494	4	16.5	-45	53.0	9.7 ✓
104	-46°	1416	4	23.2	-46	26.9	8.9 ✓
105	-46°	1418	4	23.8	-46	51.8	9.3 ✓
106	-47°	1383	4	23.4	-47	13.0	6.5 ✓
107	-46°	1363	4	20.4	-46	26.6	7.8 ✓
108	-47°	1367	4	20.7	-47	44.4	9.1 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 3, 1912 (Cont.)

1338413

No.	Int.	Class	Remark
109	r	Y0	
110	1	Y0	
111	1	Y5	
112	5	F5	
113	1	F5	
114	2	F8	
115	3	Y0	
June 11.25 116	4	Y5	Br. line between B and 3 Mg⁺ defect.
117	3	F10	
118	3	Q2	
119	2	Q0	

109	−47°	1378	4	22.4	−47	~~40.9~~ 26.9	9.4	✓
110	−47°	1377	4	22.1	−47	47.3	9.8	✓
111	−47°	1380	4	23.0	−47	47.6	9.6	✓
112	−48°	1337	4	22.0	−48	9.2	8.3	✓
113	−48°	1317	4	18.8	−48	17.1	9.9	✓
114	−48°	1320	4	19.1	−48	11.5	8.9	✓
115	−48°	1334	4	20.9	−48	26.2	7.9	✓
116	−49°	1320	4	20.8	−49	13.2	8.5	✓

Identified by ANC. Sept 11, 1912
Checked by J. C. M. Sept 20, 1912
cards made out by M. C. R.

✓	117	−45°	1455	4	10.4	−45	43	9.5 52 on Bx1076
✓	118	−44°	1497	4	14.6	−44	22	9.3 58 " "
✓	119	−44°	1517	4	17.3	−44	45	9.4 70 " "

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday June 3, 1912

June 11.38

B41001 short exp.

No.	Int.	Class	Remark
1	4	Ko	
2	2	K	
3	3	Ko	
4	6	Fo	
5	7	G5	
6	3	G5	
7	2	A	
8	8	Bo	
9	2	B5	
10	4	A3	
11	1	K5	
12	7	Ao	
13	3	A3	
14	2	A	
15	3	F8	
16	9	G5	
17	1	G	
18	5	Ko	
19	2	F	
20	2	A	
21	1	K	
22	7	F2	
23	2	A	
24	2	Ko	
25	6	A5	
26	2	Fo	
27	3	Ko	

1	-52°	521	4	22.3	-52	13.1	8.4 ✓
2	-51°	1127	4	22.7	-51	58.1	9.1 ✓
3	-51°	1112	4	20.2	-51	19.0	8.8 ✓
4	-51°	1119	4	21.8	-51	11.4	8.4 ✓
5	-50°	1385	4	21.6	-50	54.0	7.7 ✓
6	-50°	1387	4	22.5	-50	30.5	8.6 ✓
7	-50°	1393	4	23.3	-50	12.9	9.5 ✓
8	-49°	1350	4	25.5	-49	52.3	7.8 ✓
9	-49°	1389	4	24.2	-49	16.1	8.6 ✓
10	-48°	1352	4	23.9	-48	47.5	9.0 ✓
11	-48°	1363	4	26.2	-48	38.7	8.7 ✓
12	-48°	1367	4	26.7	-48	15.0	7.8 ✓
13	-47°	1414	4	28.9	-47	44.5	9.1 ✓
14	-47°	1416	4	29.1	-47	28.4	9.3 ✓
15	-47°	1421	4	29.9	-47	10.9	8.8 ✓
16	-46°	1427	4	25.6	-46	47.4	6.5 ✓
17	-46°	1437	4	27.3	-46	16.3	9.2 ✓
18	-46°	1445	4	28.5	-46	3.8	7.9 ✓
19	-46°	1447	4	28.9	-46	19.0	9.3 ✓
20	-45°	1594	4	30.7	-45	11.5	9.8 ✓
21	-45°	1601	4	31.4	-45	5.7	9.4 ✓
22	-45°	1604	4	32.3	-45	23.5	7.3 ✓
23	-45°	1609	4	33.1	-45	11.5	9.2 ✓
24	-45°	1617	4	34.0	-45	1.9	8.8 ✓
25	-45°	1644	4	34.3	-45	52.5	7.6 ✓
26	-51°	1130	4	23.2	-51	21.3	9.3 ✓
27	-51°	1138	4	24.4	-51	34.3	8.6 ✓

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

June 3, 1912 (Cont.)

B41001

No.	Int.	Class	Remark
28	2	Ka	
29	6	Fo	
June 11.50 30	2	Go	

31 5 Ml Hγ=10, Hδ=8 Sfp. Ma

28	-51°	1147	4	25.9	-51	24.5	9.1	V
29	-50°	1419	4	28.8	-50	12.7	8.0	V
30	-49°	1366	4	28.4	-49	80.8	8.7	V

Identified by J. C. M. Sept. 30, 1912.
Checked by AMC. Oct. 7. 1912
cards made out by M. C. W.

V 31 4 43-5 -49 26 R Protonic

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Monday June 3, 1912

June 11.52

B 38400 short disp.

No.	Dist.	Class	Remarks
1	2	K5	
2	2	A	
3	2	K	Q
4	3	K0	
5	5	F0	
6	3	K5	
7	2	K	
8	4	K0	
9	2	K	
10	2	F5	
11	2	K2	
12	2	K5	
13	2	K0	
14	1	F5	
15	3	K5	
16	2	F8	
17	2	K0	E
18	2	K	E
19	2	K0	
20	2	K0	
21	4	F8	
22	2	F0	
23	7	K5	
24	1	K	
25	3	K5	
26	8	F0	
27	8	K0	

1	−50°	14′26″	4	29.4 ~~28.2~~	−50	43.8 ~~56.0~~	~~9.8~~ 9.0	J
2	−51°	11′58″	4	29.8 ~~29.1~~ ~~30.0~~	−51 ~~−51~~	47 ~~47.9~~ ~~47.0~~	9.5 ~~9.4~~ 9.4	✓ ✓
3	−50°	~~14′15″~~ ~~11′60″~~	4	~~28.2~~ ~~29.1~~	−50	56.0 ~~2.9~~	9.4	J
4	−51°	11′84″	4	32.3	−51	14.2	9.0	✓
5	−50°	14′58″	4	35.9	−50	43.4	8.6	✓
6	−50°	14′56″	4	34.7	−50	3.7	9.2	✓
7	~~−50°~~ −49°	~~14′52″~~ 14′26″	4	~~34.0~~ ~~28.4~~	~~−50~~ −46	~~1.4~~ 48.4	~~9.4~~ 8.7	✓
8	−49°	13′89″	4	33.4	−49	25.4	8.2	J
9	−49°	13′91″	4	34.3	−49	28.2	9.8	J
10	−49°	13′74″	4	30.4	−49	5.7	9.0	J
11	−48°	13′99″	4	30.8	−48	42.0	8.6	✓
12	−48°	14′10″	4	32.1	−48	59.4	9.1	J
13	−48°	14′19″	4	33.1	−48	39.3	9.1	✓
14	−48°	14′30″	4	34.0	−48	24.6	9.7	J
15	−48°	14′32″	4	34.3	−48	32.5	9.0	✓
16	−48°	14′34″	4	34.7	−48	49.5	9.4	✓
17	−48°	13′84″	4	28.8	−48	3.2	9.1	✓
18	−47°	14′18″	4	29.3	−47	59.0	9.3	✓
19	−48°	13′94″	4	30.2	−48	20.6	9.4	J
20	−47°	14′37″	4	32.5	−47	54.8	9.0	J
21	−47°	14′54″	4	35.5	−47	58.0	9.0	✓
22	−48°	14′39″	4	35.6	−48	12.4	9.4	✓
23	−48°	14′54″	4	37.1	−48	46.7	6.9	J
24	−48°	14′67″	4	38.2	−48	43.6	8.9	J
25	−48°	14′66″	4	38.2	−48	23.9	8.3	✓
26	−48°	14′69″	4	38.4	−48	3.8	7.8	J
27	−47°	14′72″	4	38.2	−47	30.1	6.8	✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 3, 1912 (Cont.)

B 38400 short diffs.

No.	Int.	Class	Remark
28	3	J0	
29	3	K0	
30	2	K0	
31	5	K0	
32	4	K0	String line runs K0 towards red Look up.
33	2	K0	
34	1	K	
35	2	A0	Partly superposed on 36
36	5	K5	
37	8	F5	
38	2	K5	
39	1	F8	
40	1	K	
41	4	A0	
42	2	K2	Partly superposed on 41
43	4	F8	
44	10	K	
45	4	K5	
46	2	F5	
47	6	F5	
48	2/3	F5	
49	4	K0	
50	8	F	E
51	1	K	
52	4	K0	
53	3	G3	
54	3	K5	

28	−47°	1479	4	39.1	−47	53.4	9.4	✓
29	−47°	1484	4	39.3	−47	43.0	9.1	✓
30	−47°	1487	4	39.9	−47	46.0	9.6	✓
31	−47°	1486	4	39.8	−47	29.3	7.5	✓
32	−47°	1497	4	41.1	−47	38.4	8.5	✓
33	−47°	1489	4	40.0	−47	13.5	9.0	✓
34	−47°	1478	4	39.0	−47	23.8	9.6	✓
35	−47°	1477	4	40.1	−47	30.5	9.8	✓
36	−48°	1478	4	40.2	−48	32.3	8.0	✓
37	−48°	1479	4	40.4	−48	34.1	7.4	✓
38	−49°	1427	4	40.0	−49	4.1	9.0	✓
39	−49°	1422	4	39.5	−49	13.0	9.2	✓
40	−49°	1418	4	38.9	−49	37.0	9.3	✓
41	−50°	1474	4	40.3	−50	8.0	9.6	✓
42	−50°	1476	4	40.4	−50	7.3	8.4	✓
43	−50°	1472	4	39.9	−50	27.2	9.3	✓
44	−50°	1471	4	39.6	−50	43.4	5.5	✓
45	−50°	1468	4	38.8	−50	45.5	8.2	✓
46	−51°	1236	4	40.9	−51	19.1	9.3	✓
47	−51°	1244	4	41.7	−51	30.4	8.1	✓
48	−51°	1242	4	41.5	−51	49.2	9.0	✓
49	−51°	1243	4	41.7	−51	43.2	9.0	✓
50	−52°	566	4	48.7	−52	29.7	7.2	✓
51	−52°	570	4	42.5	−52	12.4	9.1	✓
52	−52°	571	4	43.1	−52	7.8	8.4	✓
53	−52°	574	4	43.7	−52	14.8	8.8	✓
54	−51°	1253	4	43.2	−51	16.7	8.8	✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

June 8, 1912 (Cont.)

B 38400 chart disp.

No.	Int.	Class	Remark
June 12.00 55	4	γ_5	
Image 4 Time: 19.30 56	6	γ_5	
57	8	γ_5	
58	2	γ	
59	6	Ma	
60	7	α_5	
61	2	γ_0	
62	2	γ_5	
63	8	γ_5	
64	6	γ_5	
65	2	γ_0	
66	2	γ	Partly superposed on 67.
67	4	γ	
68	2	γ_5	
69	2	γ_0	
70	2	κ_2	
71	3	γ_0	
72	2	γ_8	
73	6	γ_8	
74	4	γ_5	
75	7	γ_0	
76	3	γ_0	
77	2	γ_0	
78	1	γ	
79	5	γ_2	
80	8	γ_5	Cmf. 12 Jh.
81	3	γ_5	

55	−50°	1494	4	42.8	−50	51.0	8.6	✓
56	−50°	1501	4	43.5	−50	37.2	9.0	✓
57	−50°	1492	4	42.5	−50	17.3	7.7	✓
58	−50°	1491	4	41.6	−50	1.1	9.7	✓
59	−49°	1439	4	42.8	−49	28.3	7.8	R. Pictoris
60	−49°	1449	4	45.3	−49 −50	23.3	8.6	✓
61	−50°	1504	4	44.2	−50	23.3 −26 5.3	9.8	✓ −50° 1504 superposed mags 9.7 9.6
62	−50°	1510	4	45.0	−50	14.4	9.2	✓
63	−50°	1512	4	45.3	−50	0.9	7.4	✓
64	−50°	1514	4	45.5	−50	6.3	8.1	✓
65	−49°	1446	4	44.8	−49	54.6	9.8	✓
66	−49 −50°	1517	4	45.9	−50	7.0	9.8	✓
67	−50°	1518	4	45.9	−50	2.9	9.4	✓
68	−50°	1519	4	46.1	−50	8.0	9.3	✓
69	−50°	1513	4	45.4	−50	32.5	9.7	✓
70	−51°	1266	4	45.5	−51	2.0	9.0	✓
71	−51°	1262	4	44.8	−51	18.7	9.0	✓
72	−51°	1273	4	46.9	−51	3.0	9.3	✓
73	−51°	1278	4	47.3	−51	16.1	8.6	✓
74	−50°	1533	4	48.2	−50	47.1	9.1	✓
75	−49°	1463	4	48.2	−49	36.8	7.5	✓
76	−50°	1557	4	51.9	−50	8.7	8.5	✓
77	−51°	1289	4	49.7	−51	0.3	9.1	✓
78	−51°	1280	4	48.4	−51	27.2	9.4	✓
79	−51°	1274	4	47.0	−51	55.4	8.7	✓
80	−51°	1281	4	48.4	−51	56.2	6.9	✓
81	−52°	591	4	48.4	−52	8.6	9.1	✓
						carde	marde	out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics + Provided by the NASA Astrophysics Data System

Tuesday June 4, 1918

B 38400 dup

No.	Int.	Class Remarks	Remark
82	2	K2	
83	8	B9	
84	7	A3	
85	4	K2	
86	3	B9	
87	5	F8	
88	7	G5	
89	6	K0	
90	1	M	
91	7	F2	
92	8	G5	
93	2	A0	
94	6	F0	
95	5	F5	
96	5	G5	
97	4	F0	
98	3	A5	
99	2	F5	
100	2	G	
101	2	K2	
102	6	G5	
103	9	F0	
104	4	F8	
105	4	K0	
106	4	A5	
107	2	K0	
108	3	A2	

82	−52°	599	4	49.8	−52	26.1	9.0 ✓
83	−52°	603	4	50.7	−52	31.9	7.7 ✓
84	−52°	605	4	51.7	−52	43.3	7.4 ✓
85	−52°	609	4	52.7	−52	10.7	8.8 ✓
86	−52°	613	4	54.5	−52	20.2	8.8 ✓
87	−51°	1298	4	51.5	−51	18.0	8.5 ✓
88	−51°	1309	4	53.2	−51	14.5	8.3 ✓
89	−51°	1313	4	53.6	−51	38.8	8.0 ✓
90	−50°	1562	4	52.9	−50	50.5	9.6 ✓
91	−50°	1567	4	53.7	−50	42.0	8.9 ✓
92	−50°	1575	4	54.8	−50	46.0	7.8 ✓
93	−50°	1566	4	53.6	−50	23.5	9.8 ✓
94	−50°	1565	4	53.4	−50	2.6	8.8 ✓
95	−49°	1498	4	54.0	−49	49.0	9.6 ✓
96	−49°	1497	4	53.9	−49	10.2	8.7 ✓
97	−48°	1574	4	53.4	−48	37.6	9.2 ✓
98	−48°	1569	4	52.7	−48	12.6	9.5 ✓
99	−48°	1595	4	56.2	−48	38.0	9.5 ✓
100	−48°	1582	4	54.8	−48	57.6	9.5 ✓
101	−49°	1503	4	55.3	−49	25.2	9.2 ✓
102	−49°	1512	4	56.4	−49	18.9	8.0 ✓
103	−49°	1511	4	56.2	−49	38.6	7.3 ✓
104	−49°	1510	4	55.8	−49	55.5	8.6 ✓
105	−50°	1585	4	55.9	−50	19.7	8.9 ✓
106	−50°	1594	4	56.9	−50	5.1	9.4 ✓
107	−50°	1597	4	57.0	−50	24.2	9.3 ✓
108	−49°	1521	4	~~57.5~~ 56.1	−49	~~33.4~~ 22.7	~~10.~~ 9.8 ✓

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday June 4, 1912

B 38400 shot disp.

No.	Int.	Class	Remark
109	4	K0	
110	3	A3	
111	2	G0	
112	3	G5	
113	2	F	
114	10	F	
115	6	K0	
116	2	K	
117	7	K0	
118	6	A5	A fainter star superposed. Cannot classify.
119	10	K0	
120	1	K0	
121	3	F0	
122	3	K5	
123	2	K5	
124	5	F5	
125	7	A3	
126	7	F0	
127	6	F5	
128	4	F0	
129	4	G5	
130	4	K0	
131	4	A	E.
132	3	G5	
133	2	F5	
134	3	F0	
135	1	K	

109	-49°	1528	4	58.2	-49	45.3	8.2	✓
110	-49°	1532	4	58.6	-49	47.5	9.6	✓
111	-49°	1527	4	58.1	-49	32.7	9.8	✓
112	-49°	1530	4	58.4	-49	13.7	9.3	✓
113	-49°	1536	4 5	59.0 60.0	-49	10.7	9.8	✓
114	-49°	1541	5 4	59.5	-49	19.5	5.5	✓
115	-49°	1543	4	59.7	-49	52.9	7.3	✓
116	-49°	1545	4	59.9	-49	49.4	9.5	✓
117	-49°	1547	4 5	0.0	-49	40.0	7.5	✓
118	-49°	1556	5	1.2	-49	47.2	7.7	✓ -49° 1555 superposed mag. 9.6
119	-49°	1562	5	1.7	-49	44.8	5.3	✓
120	-49°	1558	5	1.5	-49	24.0	9.5	✓
121	-49°	1567	5	2.3	-49	6.8	9.5	✓
122	-48°	1635	5	2.6	-48	50.8	7.8	✓
123	-50°	1603	4	58.7	-50	27.1	8.9	✓
124	-50°	1605	4	59.3	-50	30.6	8.5	✓
125	-50°	1606	4	59.4	-50	37.5	8.0	✓
126	-50°	1609	4 5	0.1	-50	29.8	7.5	✓
127	-50°	1607	4	59.7	-50	58.0	7.9	✓
128	-51°	1338	4	57.5	-51	13.9	8.6	✓
129	-51°	1348	4 5	59.5	-51	37.9	8.3	✓
130	-52°	622	4	57.3	-52	2.6	8.6	✓
131	-52°	631	4	58.6	-52	14.0	8.6	✓
132	-48°	1497	4	42.5	-48	15.7	8.7	✓
133	-48°	1494	4	42.3	-48	40.6	9.7	✓
134	-48°	1503	4	43.0	-48	30.2	9.4	✓
135	-47°	1505	4	43.0	-47°	55.2	9.6	✓

Carels made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

Tuesday June 4, 1912

B 38400 chart disp.

No.	Int.	Class	Remark
136	5	A2	
137	2	F5	
138	3	G0	
139	2	F5	
140	10	A0	
141	2	G5	
142	3	A0	
143	4	F8	
144	5	F2	
145	2	G	
146	8	G5	
147	3	G5	
148	2	K0	
149	2	G0	
150	2	A5	
151	5	K0	
152	3	G5	
153	6	G5	
154	2	G0	
155	3	G0	
156	2	F5	
157	2	G5	
158	2	G0	
159	6	F0	
160	1	G	
161	4	G5	
162	B2	F8	

136	-47°	1519	4	44.7	-47	51.1	9.0 ✓
137	-47°	1522	4	45.0	-47	52.6	9.5 ✓
138	-47°	1524	4	45.1	-47	42.4	9.3 ✓
139	-47°	1529	4	46.0	-47	48.3	9.4 ✓
140	-47°	1526	4	45.4	-47	21.1	7.5 ✓
141	-47°	1528	4	46.0	-47	15.8 48.2	9.4 ✓
142	-47°	1538	4	47.6	-47	11.9	9.8 ✓
143	-47°	1541	4	48.2	-47	19.2	9.3 ✓
144	-46°	1586	4	48.0	-46	57.4	9.1 ✓
145	-46°	1587	4	48.3	-46	59.9	9.6 ✓
146	-47°	1546	4	48.5	-47	3.6	7.3 ✓
147	-46°	1596	4	49.4	-46	50.4	8.8 ✓
148	-47°	1557	4	50.1	-47	13.6	9.4 ✓
149	-47°	1549	4	49.0	-47	45.5	9.1 ✓
150	-47°	1565	4	50.8	-47	32.2	9.6 ✓
151	-48°	1543	4	47.7	-48	16.4	8.1 ✓
152	-48°	1533	4	46.8	-48	13.8	9.0 ✓
153	-48°	1529	4	46.4	-48	31.6	8.0 ✓
154	-48°	1527	4	46.1	-48	41.0	9.5 ✓
155	-48°	1525	4	45.7	-48	37.6	9.5 ✓
156	-48°	1531	4	46.5	-48	58.2	9.6 ✓
157	-48°	1548	4	49.2	-48	50.2	9.4 ✓
158	-47°	1579	4	52.9	-47	46.1	9.5 ✓
159	-47°	1587	4	54.1	-47	27.9	8.9 ✓
160	-47°	1596	4	54.8	-47	36.1	9.7 ✓
161	-47°	1599	4	55.3	-47	30.7	8.9 ✓
162	-47°	1591	4	54.5	-47	48.9	9.7 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, June 4, 1912

B 38400 · short disp.

No.	Int.	Class	Remark
163	5	K2	
164	5	F8	
165	3	F0	
166	4	F8	
167	2	G5	
168	1	G0	
169	2	G0	
170	4	A3	
171	4	A0	
172	2	K0	
173	3	K	
174	2	G5	
175	2	K	
176	4	K0	
177	3	K0	
178	2	G5	
179	5	G0	
180	1	K	
181	9	A2	
182	6	A5	
183	8	A0	
184	2	G5	
185	3	F8	
186	3	K0	
187	5	G5	
188	7	K0	
189	3	G0	

163	-47°	1624	4	57.3	-47	46.9	7.8	✓
164	-48°	1601	4	57.7	-48	23.6	8.7	✓
165	-48°	1598	4	56.9	-48	35.2	8.7	✓
166	-48°	1600	4	57.1	-48	48.0	9.3	✓
167	-48°	1610	4	59.1	-48	44.6	9.3	✓
168	-48°	1609	4	58.7	-48	23.3	9.6	✓
169	-47°	1648	4	59.7	-47	55.5	9.4	✓
170	-47°	1656	5	0.5	-47	45.6	9.3	✓
171	-47°	1672	5	2.3	-47	57.8	9.2	✓
172	-47°	1670	5	2.0	-47	16.8	9.1	✓
173	-46°	1436	4	27.1	-46	47.6	9.1	✓
174	-46°	1439	4	27.4	-46	48.6	9.1	✓
175	-46°	1462	4	32.3	-46	36.6	8.9	✓
176	-46°	1465	4	32.7	-46	31.8	8.6	✓
177	-47°	1447	4	34.7	-47	23.3	9.2	✓
178	-46°	1488	4	35.3	-46	50.6	9.4	✓
179	-46°	1495	4	36.6	-46	32.0	8.5	✓
180	-46°	1499	4	36.9	-46	44.6	9.5	✓
181	-46°	1501	4	37.1	-46	2.1	7.4	✓
182	-45°	1641	4	37.4	-45	56.6	8.4	✓
183	-45°	1645	4	38.0	-45	32.9	8.1	✓
184	-45°	1652	4	39.2	-45	33.0	9.4	✓
185	-45°	1654	4	39.4	-45	52.6	9.5	✓
186	-46°	1529	4	40.2	-46	25.1	9.1	✓
187	-46°	1526	4	39.7	-46	41.4	8.5	✓
188	-46°	1532	4	40.5	-46	29.9	8.0	✓
189	-46°	1540	4	41.3	-46	37.7	9.4	✓
						cards	made	out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, June 4, 1912

B 38 403 Sent disp.

No.	Int.	Class	Remarks
190	7	Go	
191	5	F8	
192	3	F8	
193	4	K0	
194	4	F0	
195	8	F5	
196	2	G0	
197	4	F0	
198	2	K2	
199	3	K0	
200	2	K2	
201	6	K0	
202	6	F8	
203	6	G0	
204	3	F5	
205	5	F5	
206	3	K0	
207	3	A3	
208	4	G5	
209	7	A0	
210	4	A2	
211	8	A0	
Time: 10.04 212	8	Bq	
213	3	K0	

190	−46°	1553	4	43.9	−46	49.3	8.5	✓
191	−46°	1556	4	44.1	−46	15.8	9.1	✓
192	−46°	1565	4	45.4	−46	45.6	9.5	✓
193	−46°	1574	4	46.5	−46	23.5	8.6	✓
194	−46°	1578	4	47.0	−46	16.7	9.1	✓
195	−45°	1706	4	47.0	−45	52.9	7.7	✓
196	−46°	1599	4	~~50.0~~ 47.7	−46	7.2	9.6	✓
197	−46°	1609	4	51.2	−46	34.0	9.1	✓
198	−46°	1617	4	52.3	−46	49.5	9.5	✓
199	−46°	1621	4	52.7	−46	38.8	9.1	✓
200	−46°	1623	4	52.8	−46	44.2	9.4	✓
201	−46°	1624	4	53.2	−46	43.7	8.3	✓
202	−46°	1629	4	53.4	−46	53.9	9.1	✓
203	−46°	1656	4	57.0	−46	50.2	8.8	✓
204	−46°	1662	4	57.4	−46	35.6	9.2	✓
205	−46°	1672	4	58.8	−46	42.0	8.7	✓
206	−47°	1629	4	58.0	−47	16.8	8.8	✓
207	−46°	1681	4 5	0.4	−46	29.2	9.2	✓
208	−45°	1793	4	59.9	−45	59.9	8.7	✓
209	−46°	1665	4	57.6	−46	7.3	8.4	✓
210	−46°	1667	4	57.8	−46	12.3	9.8	✓
211	−45°	1777	4	58.4	−45	46.7	7.8	✓
212	−45°	1759	4	55.1	−45	28.8	7.7	✓

I identified by anc. Sept. 5, 1912

Checked by J. C. M. Sept. 23. 1912.

cards made out by M. C. W.

✓ 213	−45°	1758	4	58.2	−45	20	9.1	B2m B 2090

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tues. June 4, 1912.

Time: 11.10

B 4101 3 short disk.

No.	Int.	Class	Remark
1	2	K	E.
2	7	A	E.
3	2	ly_5	
4	4	$\frac{1}{2}$ F8	
5	6	$\frac{1}{2}$ F2	
6	2	$\frac{1}{2}$ F	
7	4	$\frac{1}{2}$ F8	
8	7	K0	
9	3	F5	
10	6	ly_5	
11	7	K0	
12	5	F8	
13	3	F2	
14	2	ly_0	
15	10	A0	
16	3	ly_5	
17	1	F	
18	1	K0	
19	8	F5	
20	2	K0	
21	4	K0	
22	3	F5	
23	2	ly_0	
24	5	ly_5	
25	4	ly_5	
26	2	ly_5	
27	4	K0	

1	−55°	596	4	0.1 − 55	56.8	8.8	∧ J
2	−55°	598	4	1.0 − 55	44.4	7.6	∧ J
3	−55°	602	4	3.4 − 55	34.8	8.6	∧ J
4	−54°	629	4	5.7 − 54	58.1	8.5	∧ J
5	−54°	633	4	8.2 − 54	21.7	8.1	∧ J
6	−54°	632	4	7.6 − 54	15.1	9.2	∧ V
7	−53°	661	4	7.5 −53	54.7	8.9	∧ J
8	−53°	664	4	8.9 −53	44.0	7.6	∧ J
9	−54°	638	4	10.0 − 54	20.2	8.8	∧ J
10	−53°	671	4	12.4 − 53	54.9	8.3	∧ J
11	−53°	672	4	12.7 − 53	37.9	8.2	∧ J
12	−53°	676	4	14.3 − 53	49.7	8.6	∧ J
13	−54°	644	4	13.2 − 54	19.3	8.8	∧ J
14	−54°	646	4	15.4 − 54	32.5	9.0	∧ J
15	−54°	649	4	15.9 − 54	26.3	7.5	∧ J
16	−55°	616	4	11.5 − 55	1.6	8.8	∧ J
17	−55°	618	4	12.4 − 55	10.6	9.2	∧ J
18	−56°	613	4	10.4 − 56	48.7	9.0	∧ J
19	−56°	647	4	11.5 −56	29.6	7.4	∧ J
20	−55°	620	4	13.1 − 55	57.3	8.9	∧ J
21	−56°	656	4	15.3 − 56	29.3	8.6	∧ J
22	−55°	626	4	15.2 − 55	36.8	8.8	∧ J
23	−55°	629	4	16.2 − 55	15.8	8.9	∧ V
24	−55°	631	4	16.7 − 55	11.4	8.3	∧ J
25	−54°	652	4	17.3 − 54	59.5	8.6	∧ U
26	−53°	68⅓	4	15.7 − 53	45.7 X	9.2 X	∧ J 25.5 bbb superposed?
27	−53°	683	4	15.8 − 53	50.9	8.6	∧ V

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday June 4, 1912
B41013 short disp.

No	Int.	Class	Remark
28	7	F5	
29	10	F5	
30	5	F2	
31	3	K5	
32	1	K	
33	2	K	Region of K not seen distinctly.
34	1	ly	Difficult
35	9	A0	
36	6	B9	
37	5	F5	
38	1	ly5	
39	1	ly5	
40	1	ly	
41	7	F2	
42	2	F0	
43	4	ly5	
44	3	ly5	
45	3	F8	
46	2	ly	
47	2	F	
48	4	ly5	
49	3	Ma	
50	2	ly0	
51	4	K0	
52	3	A0	
53	3	F5	
54	2	A	

28	−53°	678	4	15.2	−53	12.5	7.5 ∧ ∨
29	−53°	679	4	15.6	−53	9.9	6.7 ∧ ∨
30	−53°	685	4	16.0	−53	14.7	8.2 ∧ ı
31	−53°	686	4	16.9	−53	15.3	8.9 ∧ ∨
32	−53°	688	4	18.0	−53	14.5	9.2 ∧ ı
33	−53°	689	4	20.0	−53	49.5	9.0 ∧ ∨
34	−54°	658	4	20.8	−54	8.4	9.0 ∧ ı
35	−53°	698	4	22.5	−53	23.7	7.2 ∧ ∨
36	−53°	708	4	24.5	−53	41.0	7.8 ∧ ∨
37	−53°	706	4	23.7	−53	59.2	8.0 ∧ ∨
38	−52°	522	4	22.5	−52	44.5	9.2 ∧ ı
39	−52°	523	4	23.2	−52	45.1	9.3 ∧ ∨
40	−52°	524	4	24.0	−52	50.0	9.3 ∧ ∨
41	−53°	711	4	26.8	−53	16.2	7.8 ∧ ∨
42	−53°	714	4	27.4	−53	43.5	8.6 ∧ ∨
43	−54°	674	4	27.0	−54	12.0	8.1 ∧ ı
44	−54°	669	4	25.5	−54	18.6	8.3 ∧ ∨
45	−54°	665	4	23.5	−54	31.8	8.6 ∧ ∨
46	−54°	655	4	18.4	−54	43.2	9.0 ∧ ∨
47	−54°	657	4	19.1	−54	55.3	9.2 ∧ ∨
48	−55°	636	4	19.8	−55	23.2	8.4 ∧ ∨
49	−55°	650	4	23.9	−55	29.3	8.8 ∧ ∨
50	−55°	651	4	23.9	−55	42.1	8.8 ∧ ∨
51	−56°	667	4	21.7	−56	7.2	8.4 ∧ ∨
52	−56°	676	4	24.5	−56	21.1	8.8 ∧ ∨
53	−56°	679	4	24.9	−56	11.0	8.6 ∧ ı
54	−56°	640	4	23.2	−56	38.8	8.9 ∧ ∨

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, June 4, 1912.

B41013 short disp.

No.	Int.	Class	Remark
55	2	Ly^5	
56	3	Ty^0	
57	10	Ly^0	
58	8	A_0	
59	4	Ty^0	
60	1 N.	Ny^0	
61	1	Ly^0	
62	1	Ly^5	
63	3	A_0	
64	5	Ty^8	
65	3	Ty^5	
66	7	Ty^0	
67	3	Ty^5	
68	10+	B_8	Burned out.
69	3	Ty^8	
70	6	Ly^0	
71	5	A_5	
72	2	Ly^0	
73	3	Ly^0	
74	3	Ty^0	
75	2	Ty^8	
76	5	Ty^0	
77	3	Ly^0	
78	7	Ly^5	
79	3	Ty^8	
80	5	A_0	
81	5	Ty^5	

55 – 56°	672	4	23.5 – 56	48.4	8.6	^ J	
56 – 56°	674	4	24.0 – 56	43.6	8.6	^ V	
57 – 57°	659	4	21.8 – 57	21.2	7.1	^ J	
58 – 57°	658	4	21.7 – 57	32.3	7.2	^ J	
59 – 57°	664	4	26.9 – 57	27.5	8.1	^ J	
60 – 56°	677	4	24.7 – 56	26.0	9.0	^ J	
61 – 56°	681	4	25.7 – 56	17.6	9.2	^ J	
62 – 55°	657	4	27.3 – 55	47.4	9.2	^ J	
63 – 56°	685	4	28.6 – 56	10.8	8.8	^ J	
64 – 56°	691	4	30.0 – 56	29.4	8.2	^ J	
65 – 56°	689	4	29.9 – 56	14.0	8.6	^ J	
66 – 55°	662	4	30.1 – 55	51.9	8.1	^ J	
67 – 55°	665	4	31.6 – 55	37.0	8.6	^ J	
68 – 55°	663	4	31.3 – 55	18.2	4.1	^ J	
69 – 54°	679	4	31.2 – 54	56.0	8.6	^ J	
70 – 55°	671	4	32.8 – 55	8.9	7.7	^ J	
71 – 54°	685	4	33.8 – 54	52.6	8.0	^ J	
72 – 54°	688	4	34.7 – 54	54.6	8.8	^ V	
73 – 55°	679	4	34.4 – 55	6.8	8.6	^ J	
74 – 54°	689	4	36.5 – 54	26.1	8.6	^ J	
75 – 54°	696	4	38.4 – 54	55.9	8.8	^ J	
76 – 55°	685	4	39.3 – 55	2.2	8.1	^ V	
77 – 54°	702	4	40.4 – 54	57.0	8.6	^ J	
78 – 54°	703	4	40.5 – 54	49.2	7.8	^ J	
79 – 54°	707	4	42.8 – 54	28.0	8.7	^ J	
80 – 54°	710	4	43.3 – 54	36.4	8.3	^ J	
81 – 55°	691	4	42.8 – 55	5.5	8.2	^ V	

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday June 4. 1912

B 41013 short clips.

No.	Int.	Class	Remark
82	7	Ly5	
83	8	B8	
84	5	A8	
85	3	K0	
86	2	A5	
87	5	K0	
88	2	A	
89	4	B9	
90	10+	F5	
91	7.4	K0	
92	2	K0	
93	2	Ly5	
94	3	Neb	
95	2	K	
96	6—	A2	
97	5	K0	
98	2	Ly	
99	3	F8	
100	2	K0	
101	3	K0	
102	2	K	
103	2	F8	
104	4	Ly0	
105	1	K	
106	1	Ly5	
107	2	F5	
108	8	K0	

	82	−54°	718	4	46.8	−54	6.2	7.9	∧ı
	83	−54°	719	4	47.1	−54	40.1	7.8	∧ı
	84	−52°	503	4	8.8	−52	44.7	8.0	∧J
	85	−52°	502	4	8.4	−52	26.0	8.7	∧ı
	86	−52°	505	4	10.1	−52	13.2	8.8	∧ı
C.Dm.	87	−51°	1057	4	10.6	−51	54.6	7.5	∧J
	88	−52°	510	4	12.1	−52	3.3	8.8	∧J
	89	−52°	509	4	12.1	−52	28.6	8.2	∧J
C.Dm.	90	−51°	1066	4	12.8	−51	48.0	4.4	∧J
C.Dm.	91	−51°	1072	4	13.4	−51	54.5	8.4	∧ı
	92	−52°	513	4	14.5	−52	47.4	8.8	∧J
	93	−52°	508	4	11.6	−52	54.2	9.0	∧J
	94	−53°	670	4	12.0	−53	19.2	9.2	∧J
	95	−52°	528	4	29.6	−52	1.1	9.1	∧J
	96	−52°	533	4	31.5	−52	38.7	8.3	∧J
	97	−52°	534	4	32.0	−52	58.2	8.4	∧J
	98	−52°	536	4	32.2	−52	39.8	9.0	∧J
	99	−53°	727	4	32.6	−53	3.7	8.8	∧J
	100	−53°	732	4	33.1	−53	30.1	9.1	∧ı
	101	−53°	729	4	32.7	−53	47.8	8.4	∧J
	102	−54°	671	4	26.4	−54	40.8	8.9	∧J
	103	−52°	537	4	33.0	−52	4.3	8.8	∧ı
	104	−52°	539	4	33.9	−52	5.5	8.3	∧J
	105	−52°	542	4	34.7	−52	18.1	9.0	∧ı
	106	−52°	541	4	34.1	−52	30.1	9.0	∧J
	107	−52°	543	4	34.7	−52	49.2	8.8	∧J
C.Dm.	108	−51°	1207	4	36.0	−51	55.2	6.5	∧J

Cargo made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Tuesday, June 4, 1912

B 4101 3 short disp.

No.	Int.	Class	Remark
109	2	ly	
110	1	ly	
111	1	ly5	
112	4	ly0	
113	7	Z0	
114	6	Z5	
115	3	ly0	
116	6	K0	
117	6	Z0	
118	2	Z	
119	2	Z	
120	2	ly	
121	1	ly5	
122	4	ly0	
123	3	K0	
124	3	ly0	
125	4	ly5	
126	4	Z8	
127	10	Z	Burned out
128	2	ly	
Time: 11.37/29	3	ly0	

C.Dm.	109	−51°	1205	4	35.8	−51	41.7	8.9	∧ ∨
C.Dm.	110	−51°	1209	4	36.6	−51	54.2	9.5	∧ ∨
C.Dm.	111	−51°	1220	4	38.2	−51	40.6	9.3	∧ ∨
	112	−52°	552	4	37.8	−52	18.7	8.6	∧ ∨
	113	−52°	557	4	38.7	−52	33.0	8.1	∧ ∨
	114	−52°	555	4	38.4	−52	51.4	8.0	∧ ∨
	115	−52°	560	4	39.6	−52	23.9	8.5	∧ ∨
	116	−52°	564	4	40.5	−52	46.7	8.0	∧ ∨
	117	−52°	567	4	41.3	−52	51.6	7.8	∧ ∨
	118	−53°	738	4	37.3	−53	11.8	9.0	∧ ∨
	119	−54°	694	4	38.2	−54	6.6	8.6	∧ ∨
	120	−53°	750	4	42.7	−53	39.4	8.8	∧ ∨
	121	−53°	749	4	41.7	−53	29.3	9.1	∧ ∨
	122	−52°	581	4	45.6	−52	51.2	8.4	∧ ∨
	123	−52°	584	4	46.9	−52	30.2	9.0	∧ ∨
	124	−52°	585	4	47.2	−52	37.8	8.7	∧ ∨
	125	−52°	589	4	47.8	−52	50.4	8.4	∧ ∨
	126	−53°	759	4	47.1	−53	29.7	8.4	∧ ∨
	127	−53°	760	4	48.1	−53	40.5	6.5	∧ ∨
	128	−53°	763	4	48.5	−53	37.0	8.8	∧ ∨
	129	−54°	725	4	48.6	−54	10.9	8.6	∧ ∨

Identified by AMC. Sept. 16, 1912

Checked Oct. 17th 1912 L.A.W.

cards made out by M.C.W.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday June 5, 1912

B 2379 1 short disp.

Time: 10.23

No.	Int.	Class	Remark
1	4	H0	
2	10	F5	
3	2	G5	
4	2	K2	
5	1	G5	
6	1	K	
7	7	F2	
8	3	G	
9	6	K0	
10	8	F5	
11	10	A2	
12	5	B8	
13	6	G5	
14	4	F8	
15	4	F5	
16	3	Ma	
17	5	F0	
18	4	G0	
19	2	A2	
20	2	F	Difficult.
21	3	G5	
22	6	G5	
23	5	F5	
24	7	A3	
25	6	F5	
26	1	K	
27	3	F	Focus poor.

1	-43°	1069	3	22.0	-43	16.3	7.5	✓
2	-44°	1139	3	23.4	-44	17.4	6.8	✓
3	-44°	1130	3	22.2	-44	2.8	8.6	✓
4	-44°	1129	3	21.9	-44	15.2	8.5	✓
5	-44°	1127	3	21.7	-44	33.4	9.1	✓
6	-44°	1118	3	21.1	-44	58.3	9.2	✓
7	-45°	1131	3	20.4	-45	8.4	8.3	✓
8	-45°	1137	3	21.0	-45	29.0	9.3	✓
9	-45°	1138	3	21.1	-45	42.6	8.4	✓
10	-45°	1128	3	20.0	-45	32.4	7.7	✓
11	-46°	1027	3	20.4	-46	6.1	7.0	✓
12	-46°	1025	3	19.9	-46	4.1	8.8	✓
13	-46°	1026	3	20.3	-46	17.7	8.2	✓
14	-46°	1001	3	16.1	-46	16.8	8.6	✓
15	-46°	998	3	15.5	-46	38.7	9.1	✓
16	-46°	987	3	13.4	-46	39.5	8.8	✓
17	-46°	982	3	12.5	-46	35.5	9.0	✓
18	-46°	983	3	12.6	-46	13.0	9.0	✓
19	-45°	1113	3	16.7	-45	38.2	9.5	✓
20	-45°	1109	3	16.1	-45	37.2	9.6	✓
21	-45°	1106	3	15.8	-45	41.7	9.3	✓
22	-45°	1100	3	15.2	-45	33.6	8.5	✓
23	-45°	1103	3	15.4	-45	47.8	9.2	✓
24	-44°	1123 / 1099	3	18.9 / 18.5	-44	40.7 / 44.0	8.2 / 9.1	✓
25	-44°	1098	3	18.3	-44	34.7	8.1	✓
26	-44°	1075	3	15.3	-44	42.0	9.0	✓
27	-44°	~~1045~~ 1068	3	~~15.3~~ 14.6	-44	~~42.7~~ 38.4	~~9.2~~ 9.1	✓

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, June 5, 1912
B 2379, short disp.

No.	Int.	Class	Remarks
28	3	K5	
29	4	Ma	
30	7	G5	
31	3	F8	
32	2	G	Line 4227 appears too strong for this class.
33	1	K5	
34	9	G0	
35	3	A2	
36	6	A3	
37	4	F0	
38	6	F5	
39	7	F0	
40	5	K0	
41	2	G0	
42	3	F5	
43	4	G5	
44	1	F	
45	2	F0	
46	10	F5	
47	3	A5	
48	4	F0	
49	6	F5	
50	4	K0	
51	5	F5	
52	3	K0	
53	2	K0	
54	5	A0	

28	-43°	1022	3	12.9	-43	52.0	8.3	J
29	-43°	1013	3	11.2	-43	44.8	7.7	J
30	-44°	1038	3	10.6	-44	35.1	7.4	J
31	-45°	1080	3	10.6	-45	1.7	8.9	J
32	-45°	1078	3	10.5	-45	28.0	9.2	J
33	-46°	970	3	11.5	-46	0.0	9.4	J
34	-46°	968	3	10.9	-46	8.0	6.7	J
35	-46°	965	3	10.4	-46	2.3	9.5	J
36	-46°	960	3	9.4	-46	3.7	8.4	J
37	-46°	959	3	9.4	-46	19.2	9.0	J
38	-46°	958	3	9.3	-46	22.9	8.4	J
39	-46°	949	3	8.2	-46	57.5	8.1	J
40	-46°	942	3	6.8	-46	49.4	8.0	J
41	-46°	940	3	6.4	-46	33.9	9.3	J
42	-46°	939	3	6.4	-46	49.2	9.2	J
43	-46°	934	3	5.2	-46	21.7	8.4	J
44	-46°	944	3	7.2	-46	6.4	9.3	J
45	-45°	1066 1042	3	8.3 10.5	-45	31.8 28.0	9.2	J
46	-44°	1025	3	8.0	-44	53.5	6.2	J
47	-43°	997	3	9.0	-43	49.8	8.6	J
48	-43°	990	3	6.5	-43	35.3	9.0	J
49	-44°	1010	3	5.8	-44	11.7	8.2	J
50	-44°	1001	3	4.9	-44	56.2	8.9	J
51	-44°	994	3	4.2	-44	42.0	8.3	J
52	-44°	992	3	4.1	-44	47.5	8.6	J
53	-44°	985	3	3.2	-44	57.3	9.3	J
54	-45°	1049	3	5.6	-45	28.2	8.7	J

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics + Provided by the NASA Astrophysics Data System

Wednesday June 5, 1912

B23791 photo disp.

No.	Int.	Class	Remark
55	6	h_5	
56	7	H_0	
57	3	h_5	
58	3	H_0	
59	2	h_0	
60	3	F_5	
61	7	F_8	
62	2	h_5	
63	1	F	
64	7	A3	
65	1	h_7	
66	3	h_0	
67	2	F_2	
68	5	H_0	
69	4	H_0	
70	5	F_2	
71	6	F_0	
72	2	F_5	
73	4	F_0	
74	2	H_0	
75	3	h_5	
76	4	h_5	
77	1	K	
78	2	h_0	
79	2	h_5	
80	6	Ma	H & K bright H γ not seen.
81	6	F_5	

55	-45°	1041	3	4.5	-45	26.2	8.1 ✓
56	-45°	1036	3	3.8	-45	36.8	9.0 ✓
57	-45°	1039	3	4.2	-45	55.4	9.0 ✓
58	-45°	1028	3	2.7	-45	49.4	8.6 ✓
59	-46°	926	3	3.3	-46	28.5	9.1 ✓
60	-47°	978	3	5.5	-47	20.6	9.4 ✓
61	-47°	966	3	3.4	-47	30.9	8.0 ✓
62	-45°	1011	2 3	37.6	-45	55.5	9.2 ✓
63	-45°	1004	2 3	58.8	-45	56.1	9.4 ✓
64	-45°	988	2 3	56.5	-45	46.6	8.4 ✓
65	-45°	986	2 3	66.2	-46	32.1	9.5 ✓
66	-44°	937	2 3	57.6	-44	52.5	9.1 ✓
67	-45°	905	2 3	53.1	-44	13.9 55.0	9.1 ✓
68	-46°	874	2 3	53.5	-46	10.2	8.2 ✓
69	-46°	864	2 3	52.6	-46	48.6	8.1 ✓
70	-47°	910	2 3	53.5	-47	3.5	8.5 ✓
71	-47°	905	2 3	52.5	-47	13.8	8.7 ✓
72	-47°	903	2 3	52.4	-47	22.4	9.5 ✓
73	-47°	913	2 3	54.2	-47	35.1	9.1 ✓
74	-47°	914	2 3	54.3	-47	54.1	9.4 ✓
75	-49°	847	2	59.2	-49	11.4	8.6 ✓
76	-49°	836	2	57.6	-49	21.2	8.6 ✓
77	-48°	825	2	56.4	-48	42.4	9.2 ✓
78	-49°	823	2	55.3	-49	17.4	9.3 ✓
79	-49°	818	2	54.5	-49	14.0	9.0 ✓
80	-50°	860	2	49.7	-50	24.2	10 ✓ Var. R. Strolgjunn
81	-48°	783	2	48.6	-48	39.9	8.9 ✓

Cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday June 5 1912

B23791 chart disp.

No.	Int.	Class	Remark
82	4	I_5	Fe Poor focus
83	5	I_{50}	
84	4	III_0	
85	3	A_5	
86	7	A_3	
87	3	I_5	
88	6	III_0	
89	4	I_{55}	
90	3	III_0	
91	2	A	
92	2	F	
93	5	F_5	
94	2	III_0	
95	7	III_0	
96	2	A_2	
97	2	I_{50}	Faint star near a bright.
98	3	K_2	
99	3	F_5	
Time: 10.43 100		I_{55}	
101	5	A_{50}	
102	4	A_{05}	
" 103	4	F_8	
104	3	A_{50}	

cont. 180, 164

82	-48°	772	2	46.9	-48	28.7	9.4	J
83	-48°	767	2	46.1	-48	37.4	9.1	J
84	-46°	853	2	50.9	-46	43.0	8.7	J
85	-46°	840	2	48.3	-46	20.3	9.5	J
86	-46°	831	2	46.8	-46	30.6	8.1	✓
87	-45°	984	2	50.7	-45	34.0	9.1	J
88	-45°	1150	3	23.8	-45	59.8	7.7	J
89	-46°	1045	3	24.0	-46	42.2	9.1	J
90	-47°	1056	3	23.2	-47	24.0	9.1	✓
91	-47°	1054	3	22.5	-47	17.4	9.7	J
92	-46°	1029	3	20.9	-46	54.7	9.5	✓
93	-47°	1047	3	20.5	-47	17.4	9.3	J
94	-47°	1036	3	18.8	-47	6.5	9.3	J
95	-47°	1032	3	18.0	-47	12.5	7.3	J
96	-46°	1010	3	17.3	-46	52.0	9.4	J
97	-48°	929	3	17.4	-48	12.4	9.5	✓
98	-48°	923	3	16.4	-48	21.6	8.7	✓
99	-48°	914	3	15.3	-48	0.5	9.5	✓
100	-47°	1003	3	12.4	-47	45.3	8.5	✓

Identified by AMC. Sept. 13, 1912

Checked by J.C.M. Feb. 20, 1913.

cards made out by Mr. C.W.

Cards checked by E.P.K.

✓ 101	-44°	968	3	1.2	-44	23	9.2	126 on B12267
✓ 102	-44°	918	2	54.9	-44	7	8.6	123 " "
✓ 103	-45°	926	2	46.3	-45	45	8.7	118 " "
✓ 104	-44°	852	2	44.2	-44	25	9.3	63 on "

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, June 5, 1912

Time: 11.17

B 14920 short disp.

No.	Int.	Class	Remark
1	8	A2	
2	5	F0	
3	7	K0	
4	4	F5	
5	10	K0	E.
6	9	A5	E.
7	6	K	Seems peculiar. Maybe due to edge. Look up.
8	7	F8	
9	6	F5	
10	2	K	
11	4	A5	
12	5	K0	
13	5	F2	
14	2	K	
15	4	A5	
16	8	F8	
17	6	K0	
18	5	G5	
19	4	F8	
20	2	G0	
21	1	G5	
22	5	F5	
23	2	G	
24	4	K2	
25	2	K	
26	2	G5	
27	5	G5	

1	CDM	−48°	1051	3	37.9	−48	10.6	6.9	✓
2	CDM	−48°	1052	3	38.0	−48	38.1	7.2	✓
3	CDM	−48°	1070	3	41.0	−48	27.0	6.8	✓
4	CDM	−48°	1074	3	42.5	−48	16.8	8.3	✓
5	CDM	−47	1147	3	41.4	−47	45.1	6.1	✓
6	CDM	−47°	1178	3	47.9	−47	41.6	6.7	✓
7	CDM	−47°	1187	3	49.7	−47	15.9	6.4	✓
8	CDM	−48°	1131	3	52.3	−48	7.8	7.7	✓
9	CDM	−48°	1101	3	47.3	−48	54.3	7.6	✓
10	CDM	−48°	1090	3	45.4	−48	40.2	8.8	✓
11	CDM	−49°	1097	3	44.5	−49	27.9	8.3	✓
12	CDM	−49°	1058	3	38.5	−49	33.1	7.5	✓
13	CDM	−49°	1057	3	38.4	−49	49.5	8.4	✓
14	CDM	−49°	1064	3	39.7	−49	57.8	8.5	✓
15	CDM	−50°	1123	3	39.2	−50	28.8	8.3	✓
16	CDM	−51°	887	3	39.5	−51	3.2	7.3	✓
17	CDM	−51°	885	3	38.8	−51	11.6	7.3	✓
18	CDM	−51°	900	3	41.7	−51	38.8	7.7	✓
19	CDM	−51°	886	3	39.2	−51°	41.0	8.4	✓
20	CPD	−52°	439	3	39.0	−52	2.2	8.5	✓
21	CDM	−51°	881	3	38.2	−51°	49.5	8.5	✓
22	CPD	−52°	432	3	36.4	−52	5.5	8.1	✓
23	CPD	−52°	423	3	33.2	−52	25.5	8.6	✓
24	CPD	−52°	446	3	41.5	−52	28.2	8.2	✓
25	CPD	−52°	449	3	42.3	−52	44.2	8.5	✓
26	CPD	−52°	444	3	41.0	−52	38.1	8.6	✓
27	CPD	−52°	441	3	39.8	−52	38.6	8.0	✓

cards made out.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, June 5, 1912.

B 14920 about disp.

No.	Int.	Class	
28	2	Go	
29	5	Fo	
30	4	A5	
31	7	Go	
32	1	G	
33	2	F	
34	5	G5	
35	9	F	Poor focus
36	4	K	" "
37	2	Ko	
38	2	F5	
39	3	F8	
40	4	Ko	
41	3	G5	
42	2	G	
43	7	Ko	
44	2	Go	
45	2	G5	
46	1	K	
47	5	Mo	
48	7	F2	
49	3	Go	
50	2	Ko	
51	8	Comp ~~D5~~	Maybe comp. Look up. B42856. Bv = F5 Ft = A2. K = six tenths of Ft.
52	2	Ko	
53	8	Ko	
54	5	Ko	

28	CPD.	-52° 438	3	38.8	-52	48.6	8.7		✓
29	CPD.	-53° 597	3	37.2	-53	5.9	8.0		✓
30	CPD.	-53° 596	3	36.8	-53	7.9	8.2		✓
31	CPD.	-53° 594	3	36.4	-53	18.9	7.4		✓
32	CPD.	-52° 435	3	38.2	-52	48.2	8.8		✓
33	CPD.	-53° 592	3	36.1	-53	57.1	8.8		✓
34	CPD.	-54° 876	3	37.4	-54	8.4	7.6		✓
35	CPD.	-54° 869	3	31.4	-54	44.4	6.6		✓
36	CPD.	-54° 867	3	30.9	-54	55.8	7.8		✓
37	CDM.	-50° 1176	3	48.8	-50	16.3	9.4		✓
38	CDM.	-50° 1164	3	45.6	-50	25.5	9.1		✓
39	CDM.	-50° 1156	3	45.0	-50	29.3	9.1		✓
40	CDM.	-50° 1149	3	43.8	-50	27.1	7.8		✓
41	CDM.	-50° 1146	3	43.4	-50	52.9	9.1		✓
42	CDM.	-51° 913	3	43.6	-51	1.4	9.0		✓
43	CDM.	-51° 914	3	43.8	-51	8.2	6.9		✓
44	CDM.	-51° 905	3	51.5	-51	6.0	8.6		✓
45	CDM.	-51° 930	3	47.1	-51	23.9	8.6		✓
46	CPD.	-52° 458	3	47.2	-52	13.3	9.0		✓
47	CPD.	-52° 456	3	46.2	-52	27.5	8.2		✓
48	CPD.	-53° 614	3	41.2	-53	37.3	7.6		✓
49	CPD.	-53° 611	3	45.5	-53	~~34.6~~ 33.9	8.1		✓
50	CPD.	-54° 598	3	44.8	-54	8.1	8.5		✓
51	CPD.	-54° 599	3	45.3	-54	40.6	6.9		✓
52	CPD.	-54° 591	3	41.6	-54	33.4	8.4		✓
53	CPD.	-54° 589	3	41.4	-54	40.0	7.1		✓
54	CPD.	-54° 588	3	41.1	-54	52.5	7.6		✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, June 5, 1912
B 14920 short disp.

No.	Int.	Class	Remark
55	2	K0	
56	6	K0	
57	8	B5	
58	5	A0	
59	2	F	
60	3	kp0	
61	6	F2	
62	8	F2	
63	5	F0	
64	9	A2	
65	4	A2	Partly superposed on 64.
66	8	A2	
67	10	A0	
68	6	F0	
69	4	A5	E. Difficult.
70	4	K0	
71	7	K0	E.
72	6	kp5 K0	
73	5	K0	
74	6	kp0	
75	6	B9	
76	7	F0	
77	8 9	F0	
78	3	K0	
79	2	K0	
80	1	kp5	
81	1	kp5	

55	CPD	-54° 583	3	39.9	-54	52.1	8.6	✓
56	CPD	-55° 569	3	45.8	-55	22.8	7.8	✓
57	CPD	-55° 577	3	50.3	-55	13.2	7.2	✓
58	CPD	-54° 603	3	49.9	-54	28.4	8.1	✓
59	CPD	-54° 605	3	51.4	-54	34.0	8.6	✓
60	CPD	-54° 607	3	51.8	-54	48.8	8.4	✓
61	CPD	-54° 611	3	54.3	-54	42.9	7.8	✓
62	CPD	-54° 614	3	56.8	-54	30.9	7.6	✓
63	CPD	-54° 616	3	57.8	-54	40.4	7.8	✓
64	CPD	-54° 617	3	58.0	-54	44.6	7.0	✓
65	CPD	-54° 618	3	58.0	-54	46.2	7.8	✓
66	CPD	-55° 598	4	1.0	-55	44.4	7.6	✓
67	CPD	-56 607	3	56.9	-56	49.6	6.8	✓
68	CPD	-56° 599	3	55.0	-56	36.5	7.8	✓
69	CPD	-56° 597	3	59.8	-56	41.1	8.2	✓
70	CPD	-56° 591	3	50.8	-56	46.9	8.0	✓
71	CPD	-56° 587	3	48.7	-56	46.1	7.8	✓
72	CDM	-51° 1008	4	2.0	-51	42.7	7.9	✓
73	CDM	-51° 996	3	59.7	-51	59.5	7.8	✓
74	CPD	-52° 493	4	0.4	-52	16.1	8.2	✓
75	CPD	-52° 492	4	0.3	-52	32.4	8.2	✓
76	CPD	-52° 491	4	0.2	-52	50.9	8.0	✓
77	CPD	-53° 649	3	0.5	-53	16.4	7.1	✓
78	CPD	-52° 489	3	58.0	-52	22.0	8.7	✓
79	CPD	-52° 485	3	57.4	-52	31.2	8.6	✓
80	CPD	-52° 488	3	58.0	-52	40.4	9.1	✓
81	CDM	-51° 983	3	58.1	-51	18.4	8.7	✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Wednesday, June 5, 1912
B 14920 short disp.

No.	Int.	Class	Remark
82	2	I_{50}	
83	7	I_{Ma}	
84	4	I_{45}	
85	3	I_{g}	Partly superposed on 84.
86	7	A_5	
87	8	A_0	
88	10	A_2	
89	3	I_{K_0}	
90	1	I_{g5}	
91	2	I_{K_2}	
92	1	I_K	
93	2	I_{K_0}	
94	3	I_{K_0}	
95	3	I_{K_0}	
Time: 11.38	96	1	I_K

82	C.D.M.	-51° 976	3	57.1	-51	40.6	9.1	✓
83	C.D.M.	-51° 975	3	56.9	-51	55.3	7.2	✓
84	C.D.M.	-51° 966	3	55.5	-51	26.6	8.0	✓
85	C.D.M.	-51° 965	3	55.4	-51	31.8	9.1	✓
86	C.P.D.	-52° 466	3	52.3	-52	9.8	7.9	✓
87	C.P.D.	-52° 466	3	52.5	-52	38.6	7.7	✓
88	C.P.D.	-53 628	3	51.3	-53	3.4	6.5	✓
89	C.P.D.	-53° 634	3	54.0	-53	6.5	8.2	✓
90	C.P.D.	-53° 630	3	58.2	-53	18.0	9.0	✓
91	C.P.D.	-53° 629	3	51.8	-53	32.2	8.5	✓
92	C.P.D.	-53° 623	3	53.9	-53	36.1	9.0	✓
93	C.P.D.	-53° 647	3	59.1	-53	58.0	8.8	✓
94	C.P.D.	-53° 652	3	3.5	-53	18.9	8.4	✓
95	C.P.D.	-52° 497	4	4.3	-52	53.8	8.4	✓
96	C.P.D.	-55 594	3	59.7	-55	5.6	8.9	✓

Identified H.D.W. July 10 1912 –
Checked by J.C.M. Sept. 18, 1912
cards made out by M.C.W.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday June 13, 1912

Time: 12.43 = 37743

No.	Int.	Class	Remark
.1	4	H	E.
.2	5	H0	
.3	2	H	
.4	1	G	
.5	3	A5	
.6	10	F0	
.7	5	K0	
.8	8	F5	
.9	2	F8	E.
.10	3	G	E.
.11	6	K0	E.
.12	8	A0	
.13	2	K0	
.14	2	G	
.15	2	F2	
.16	5	F5	
.17	3	G0	
.18	2	K0	
.19	5	A2	
.20	6	G5	
.21	2	G0	Partly superposed on 20.
.22	1	Ma	
.23	4	A2	
.24	2	G5	
.25	3	K2	
.26	2	F5	
.27	2 4	F5	

1	+63°	1037	12	44.8	+63	46.3	7.5	∧J
2	+65°	903	12	42.9	+65	32.3	8.0	∧J
3	+65°	906	12	44.8	+65	0.8	8.9	∧J
4	+64°	922	12	49.1	+64	43.5	8.3	∧J
5	+64°	923	12	49.2	+64	58.8	8.2	∧J
6	+66°	778	12	49.7	+66	14.2	5.0	∧J
7	+65°	913	12	52.6	+65	42.5	7.0	∧J
8	+64°	927	12	56.1	+64	24.0	6.0	∧J
9	+62°	1273	12	58.4	+62	31.8	8.2	∧J
10	+62°	1274	12	59.7	+62	51.3	8.7	∧J
11	+62°	1275	13	0.6	+62	49.8	6.0	∧J
12	+63°	1056	13	4.2	+63	1.1	6.4	∧J
13	+63°	1053	13	2.5	+63	28.0	7.7	∧J
14	+63°	1052	13	2.3	+63	45.5	8.3	∧J
15	+64°	932	13	3.6	+64	16.7	8.5	∧J
16	+63°	1057	13	5.9	+63	55.9	7.5	∧J
17	+66°	790	13	0.2	+66	26.4	8.3	∧J
18	+66°	793	13	3.5	+66	20.5	7.8	∧J
19	+66°	796	13	5.3	+66	20.4	8.0	∧J
20	+66°	800	13	10.9	+66	28.3	7.5	∧J
21	+66°	801	13	11.0	+66	25.4	8.8	∧J
22	+65°	926	13	14.8	+65	57.4	9.0	∧J
23	+65°	927	13	15.3	+65	51.0	8.0	∧J
24	+65°	925	13	14.7	+65	12.7	8.3	∧J
25	+64°	946	13	16.4	+64	42.7	7.5	∧J
26	+64°	943	13	14.3	+64	30.4	8.3	∧J
27	+64°	938	13	10.6	+64	23.6	8.0	∧J

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday June 13 1912.

I 37743

No.	Int.	Class	Remarks
28	4	I8	
29	1	K	
30	7	Ly5	
31	2	Ly5	
32	4	Ly5	
33	8	I0	
34	7	I0	Partly superposed on 33.
35	6	Ly0	
36	2	Ly5	
37	1	Ly5	
38	1	K	
39	2	Ly	
40	5	I2	
41	3	A2	
42	10	A0	
43	9	A2	
44	5	I5	
45	2	Ly	Partly superposed on 44.
46	6	A2	
47	2	I8	
48	3	I5	
49	2	Ly	Confirm.
50	1	Ma	
51	2	Ly5	Confirm.
52	10	Ma	
53	2	Ly5	C.
54	4	I0	

28	+63°	1071	13	18.3	+63	33.0	7.5	∧ ∫
29	+63°	1074	13	20.0	+63	52.2	8.0	∧ ∫
30	+64°	949	13	21.0	+64	0.4	6.5	∧ ∨
31	+63°	1076	13	21.8	+63	45.7	7.5	∧ ∨
32	+65°	932	13	20.4	+65	35.8	8.0	∧ ∫
33	+65°	935	13	22.2	+65	29.2	6.7	∧ ∫
34	+65°	936	13	22.3	+65	27.3	6.7	∧ ∫
35	+64°	951	13	25.0	+64	56.4	7.0	∨
36	+65°	943	13	27.5	+65	14.6	8.6	∧ ∫
37	+65°	941	13	26.7	+65	49.1	8.6	∧ ∨
38	+65°	9421	13	27.1	+65	39.7	8.9	∧ ∫
39	+66°	810	13	27.9	+66	5.2	9.0	∧ ∫
40	+65°	946	13	30.2	+65	59.9	8.3	∧ ∫
41	+66°	814	13	32.9	+66	23.9	8.8	∧ ∫
42	+65°	953	13	37.0	+65	33.5	6.0	∧ ∫
43	+66°	816	13	37.6	+66	0.9	7.8	∧ ∫
44	+65°	957	13	39.8	+65	45.1	8.0	∧ ∫
45	+65°	958	13	40.0	+65	51.0	8.9	∧ ∫
46	+65°	961	13	41.1	+65	21.3	7.8	∧ ∫
47	+65°	956	13	39.7	+65	5.3	8.8	∧ ∫
48	+64°	961	13	36.5	+64	36.3	8.3	∧ ∫
49	+64°	964	13	39.9	+64	27.5	8.5	∧ ∨
50	+64°	966	13	42.2	+64	16.7	8.5	∧ ∨
51	+64°	1067	13	42.6	+64	57.0	9.2	∧ ∫ Ruby measured as a faint pl. I 31683
	+63°	1097	13	42.4	+63	57.9	9.1	∧ ∫ as a bright pl. I 30374
52	+65°	963	13	47.2	+65	26.9	4.8	∧ ∫
53	+64°	970	13	49.3	+64	57.9	7.3	∧ ∫
54	+66°	821	13	46.4	+66	41.5	8.0	∧ ∨

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, June 13, 1912
I 37743

No.	Int.	Class	Remark
55	5	F5	
56	5	G5	
57	4	G5	E.
58	3	F?	Confirm.
59	6	F5	
60	3	F5	E.
61	5	F2	
62	8	K5	
63	2	G0	
64	2	A3	
65	2	F	
66	6	K0	
67	2	G	
68	9	K0	
69	2	F8	
70	1	K	
71	2	F8	
72	2	G	
73	2	G5	
74	5	K0	
75	6	K0	
76	1	K	
77	2	F8	
78	3	A2	
79	10	B9	
80	4	K0	
81	4	F5	

55	+66°	825	13	52.4	+66	4.7	7.5	∧∨
56	+65°	966	13	54.5	+65	37.2	7.2	∧∪
57	+65°	967	13	55.1	+65	5.8	7.7	∧∨
58	+66°	824	13	51.4	+66	49.7	8.6	∧∨
59	+66°	827	13	54.8	+66	49.3	7.2	∧∪
60	+66°	828	13	56.6	+66	46.4	8.4	∧∪
61	+66°	768	12	37.2	+66	43.8	7.3	∧∨
62	+67°	764	12	41.6	+67	34.9	5.3	∧∨
63	+67°	767	12	46.8	+67	23.6	8.5	∧∪
64	+68°	701	12	50.3	+68	19.8	8.6	∧∨
65	+68°	702	12	50.9	+68	23.1	8.5	∧∪
66	+68°	703	12	51.4	+68	2.4	6.5	∧∨
67	+67°	771	12	52.5	+67	26.6	8.7	∧∪
68	+67°	773	12	54.4	+67	22.7	5.8	∧∪
69	+68°	705	12	56.5	+68	32.2	7.8	∧∪
70	+68°	708	12	58.0	+68	8.0	9.0	∧∨
71	+68°	709	12	59.1	+68	6.6	9.0	∧∪
72	+66°	787	12	58.7	+66	39.4	8.7	∧∪
73	+68°	714	13	5.5	+68	16.3	8.5	∧∪
74	+68°	717	13	8.0	+68	4.6	7.0	∧∨
75	+68°	720	13	8.5	+68	2.9	6.7	∧∨
76	+67°	778	13	8.3	+67	44.9	9.5	∧∨
77	+68°	721	13	10.6	+68	16.2	9.1	∧∪
78	+68°	722	13	10.7	+68	47.6	8.9	∧∪
79	+69°	694	13	11.7	+69	10.2	6.0	∧∪
80	+68°	723	13	13.4	+68	26.9	7.0	∧∪
81	+67°	780	13	14.1	+67	57.6	7.8	∧∨

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday, June 13, 1912.

I 37743

Nr.	Int.	Class	Remark
.82	3	g_0	
.83	3	K_0	
.84	3	g_5	
.85	4	g_5	
.86	2	K_0	
.87	3	g_0	
.88	3	F_8	
.89	7	g_5	
.90	6	A_2	
.91	3	g_0	
.92	2	g_0	
.93	1	K	
.94	3	F_8	
.95	2	F_5	
.96	2	g_5	
.97	7	K_0	
.98	3	g_5	Partly superposed on 97.
.99	4	K_0	
.100	4	A_2	
.101	3	K	
.102	5	K_0	
.103	6	K_0	E.
.104	5	A_0	E.
.105	5	g_5	
.106	4	g_5	
.107	3	g_0	
.108	2	F_8	

82	+66°	805	13	18.0	+66	31.0	8.5
83	+66°	807	13	19.8	+66	55.5	7.8
84	+67°	786	13	24.5	+67	47.8	8.7
85	+69°	703	13	26.5	+69	1.5	8.0
86	+68°	728	13	27.0	+68	39.9	8.7
87	+68°	730	13	29.9	+68	31.0	8.2
88	+68°	732	13	32.8	+68	5.5	8.4
89	+67°	790	13	32.7	+67	46.8	6.3
90	+67°	792	13	33.7	+67	30.7	7.0
91	+67°	797	13	38.6	+67	12.3	8.6
92	+67°	802	13	43.1	+67	4.5	8.4
93	+66°	818	13	41.4	+66	31.5	8.6
94	+68°	744	13	43.3	+68	5.5	8.1
95	+67°	804	13	46.7	+67	38.4	8.9
96	+67°	812	13	52.6	+67	39.4	8.0
97	+69°	724	13	47.5	+69	1.7	6.0
98	+69°	725	13	47.6	+69	1.7	8.0
99	+69°	723	13	47.4	+69	51.9	7.8
100	+69°	726	13	50.3	+69	57.5	8.3
101	+70°	761	13	51.5	+70	15.6	8.0
102	+70°	762	13	52.4	+70	39.7	7.0
103	+69°	733	13	58.7	+69	23.1	6.3
104	+70°	715	12	45.6	+70	4.9	7.9
105	+69°	677	12	51.2	+69	23.0	7.5
106	+69°	680	12	52.1	+69	29.2	7.2
107	+69°	681	12	53.6	+69	33.5	8.0
108	+69°	689	13	44	+69	7.2	8.5

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Thursday June 13, 1912.
H 37743

No.	Int.	Class	Remark
.109	3	F5	
.110	4	F5	
.111	5	G5	
.112	5	F0	
.113	4	F0	
.114	3	A5	
.115	5	A0	
.116	1	G5	
.117	3	F5	
.118	2	G5	
.119	4	F5	
.120	4	F8	
.121	3	A0	
Time: 1.04 122	3	F8	
123			

109	+69°	692	13	8.3	+69	45.6	8.5	∧∨
110	+70°	736	13	15.8	+70	24.1	7.9	∧∨
111	+69°	696	13	16.2	+69	53.1	7.1	∧∨
112	+71°	651	13	23.1	+71	4.6	7.2	∧∨
113	+70°	741	13	24.0	+70	52.3	7.3	∧∨
114	+78°	654	13	27.6	+71	10.1	7.3	∧∨
115	+70°	747	13	31.2	+70	51.4	7.0	∧∨
116	+70°	746	13	30.8	+70	48.0	8.8	∧∨
117	+70°	748	13	32.9	+70	30.4	7.8	∧∨
118	+70°	753	13	36.7	+70	34.8	8.3	∧∨
119	+69°	716	13	40.8	+69	57.5	7.2	∧∨
120	+69°	717	13	41.6	+69	43.3	7.5	∧∨
121	+70°	760	13	46.6	+70	51.9	8.0	∧∨
122	+68°	735	13	34.7	+68	50.8	8.3	∧∨

Identified by Anne. June 20, 1912
Checked [illegible] June 29 1912

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, June 14, 1912.

I 37668

Time: 10. 30

No.	Int.	Class	Remarks
1	10	A3	E.
2	3	A5	Maybe a trail.
3	10+	A0	E.
4	3	ly5	
5	2	F5	
6	5	ly5	
7	6	F0	
8	2	F8	
9	2	F5	
10	2	ly0	
11	2	ly5	
12	7	ly0	
13	1	ly5	Partly superposed on 12.
14	3	ly5	
15	2	F5	
16	6	F8	
17	5	ly0	
18	3	F8	Another star superposed.
19	10	F0	
20	3	K0	
21	2	F	Nearly all superposed on 20.
22	2	ly	
23	4	A3	
24	4	F5	
25	8	A0	
26	2	ly0	
27	3	A3	

1	+55°	1603	13	19.4	+55	43.8	5.0 ✓
2	+55°	1602	13	19.1	+55	40.5	8.5 ✓
3	+55°	1598	13	18.1	+55	41.3	2.0 ✓
4	+56°	1661	13	23.4	+56	58.8	7.5 ✓
5	+56°	1658	13	21.9	+56	45.5	8.7 ✓
6	+57°	1438	13	23.2	+57	43.5	8.0 ✓
7	+58°	1449	13	22.6	+58	57.7	7.5 ✓
8	+58°	1444	13	19.1	+58	5.8	8.7 ✓
9	+57°	1433	13	11.9	+57	10.3	8.5 ✓
10	+58°	1434	13	11.2	+58	2.7	8.5 ✓
11	+57°	1432	13	10.3	+57	51.4	8.1 ✓
12	+57°	1425	13	7.7	+57	28.0	7.0 ✓
13	+57°	1424	13	7.5	+57	25.5	8.3 ✓
14	+58°	1424	13	4.9	+58	19.9	7.8 ✓
15	+58°	1423	13	4.4	+58	11.6	8.3 ✓
16	+57°	1419	13	3.6	+57	36.3	6.8 ✓
17	+57°	1417	13	0.4	+57	47.7	7.0 ✓
18	+57°	1414	12	56.5	+57	7.8	8.3 ✓
19	+57°	1408	12	54.5	+57	7.9	5.0 ✓
20	+57°	1410	12	55.5	+57	44.1	7.2 ✓
21	+57°	1411	12	56.6	+57	42.8	8.8 ✓
22	+58°	1411	12	57.2	+58	6.0	8.9 ✓
23	+58°	1410	12	55.6	+58	24.6	8.1 ✓
24	+59°	1475	12	52.3	+59	9.5	8.1 ✓
25	+58°	1407	12	51.1	+58	28.7	7.8 ✓
26	+58°	1405	12	50.6	+58	30.8	8.6 ✓
27	+58°	1404	12	50.2	+58	23.3	8.5 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, June 14, 1912

I 37668

Nr.	Int.	Class	Remark
28	4	Fo	
29	5	Gs	
30	5	Ao	
31	10+	B8	
32	7	Ao	
33	3	K	C.
34	3	Ko	
35	3	Ma	
36	4	A5	
37	3	F5	Partly superposed on 36.
38	4	F2	
39	5	Fo	
40	3	K2	
41	2	Go	
42	2	F8	
43	9	F5	
44	3	K2	
45	5	Go	
46	7	Ko	
47	2	G	
48	5	Ko	
49	4	Ko	
50	5	A3	
51	2	G5	
52	3	F5	
53	4	Md	Hγ, Hδ bright. Hε = Ma
54	5	A2	

28	+58°	1402	12	48.7	+58	56.3	8.0	✓
29	+56°	1631	12	49.3	+56	59.5	7.9	✓
30	+56°	1629	12	48.5	+56	54.0	8.0	✓
31	+56°	1627	12	47.7	+56	43.8	2.0	✓
32	+55°	1564	12	49.3	+55	44.9	7.7	✓
33	+55°	1556	12	43.6	+55	32.7	7.0	✓
34	+58°	1398	12	45.1	+58	10.0	7.7	✓
35	+58°	1397	12	45.0	+58	32.2	8.0	✓
36	+59°	1470	12	45.6	+59	27.3	8.2	✓
37	+59°	1469	12	45.5	+59	32.2	8.3	✓
38	+59°	1472	12	46.9	+59	42.8	8.2	✓
39	+60°	1426	12	47.4	+60	18.3	8.0	✓
40	+60°	1425	12	47.0	+60	43.4	7.9	✓
41	+60°	1422	12	44.7	+60	46.9	8.7	✓
42	+60°	1421	12	43.0	+60	9.2	8.0	✓
43	+61°	1320	12	42.4	+61	6.5	6.0	✓
44	+61°	1319	12	42.2	+61	36.7	7.8	✓
45	+62°	1257	12	42.8	+62	10.0	7.5	✓
46	+61°	1312	12	36.7	+61	56.9	6.5	✓
47	+61°	1310	12	34.4	+61	36.6	8.5	✓
48	+61°	1309	12	33.1	+61	41.1	7.0	✓
49	+61°	1307	12	32.5	+61	49.0	7.2	✓
50	+60°	1416	12	33.9	+60	19.6	8.2	✓
51	+60°	1413	12	32.7	+60	32.9	8.3	✓
52	+60°	1408	12	30.7	+60	1.1	8.5	✓
53	+60°	1406	12	29.8	+60	17.2	var.	✓
54	+59°	1448	12	27.9	+59	2.6	8.4	✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday June 14. 1912.
I 37668

Nr.	Int.	Class	Remark
55	8	K0	E.
56	10	A5	E.
57	2	K0	
58	1	K5	
59	3	G0	
60	3	K0	
61	4	F8	
62	2	F8	
63	3	F2	
64	4	F8	
65	7	F0	
66	3	G5	
67	2	F8	
68	3	G5	
69	2	F2	
70	3	F8	
71	10	A0	
72	1	G	
73	4	F8	
74	5	F5	
75	3	G5	
76	3	G5	
77	6	A2	
78	1	G	
79	2	G5	
80	4	A3	
81	4	F5	

55	+59°	1446	12	23.3	+59	34.2	6.2 ✓
56	+59°	1444	12	23.2	+59	12.0	5.7 ✓
57	+58°	1394	12	29.8	+58	28.3	8.0 ✓
58	+59°	1464	12	38.4	+59	9.5	8.1 ✓
59	+59°	1463	12	38.1	+59	27.6	8.0 ✓
60	+59°	1461	12	37.2	+59	39.3	8.1 ✓
61	+59°	1457	12	34.8	+59	45.3	8.0 ✓
62	+57°	1390	12	37.0	+57	55.6	8.6 ✓
63	+57°	1388	12	36.0	+57	46.7	7.5 ✓
64	+59°	1517	13	26.2	+59	41.3	7.7 ✓
65	+61°	1366	13	28.6	+61	0.1	7.3 ✓
66	+61°	1365	13	28.5	+61	32.9	7.8 ✓
67	+60°	1470	13	26.7	+60	35.9	8.4 ✓
68	+61°	1359	13	24.7	+61	6.2	7.7 ✓
69	+60°	1465	13	23.9	+60	45.4	8.3 ✓
70	+60°	1464	13	23.5	+60	40.0	8.5 ✓
71	+60°	1461	13	23.1	+60	42.7	5.3 ✓
72	+60°	1459	13	16.6	+60	33.4	8.6 ✓
73	+60°	1458	13	14.6	+60	37.3	7.7 ✓
74	+61°	1352	13	15.3	+61	0.5	7.8 ✓
75	+61°	1350	13	14.7	+61	9.7	8.0 ✓
76	+61°	1353	13	15.8	+61	50.5	7.9 ✓
77	+62°	1388	13	15.0	+62	10.1	7.5 ✓
78	+61°	1351	13	14.7	+61	59.7	8.8 ✓
79	+61°	1344	13	8.9	+61	21.3	8.1 ✓
80	+60°	1456	13	9.2	+60	3.7	8.0 ✓
81	+60°	1454	13	8.8	+60	23.6	8.0 ✓

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday June 14. 1912.

I 37668

Nr.	Int.	Class	Remarks
82	1	G	
83	3	G5	
84	2	F5	
85	3	K0	
86	1	K	
87	3	F8	
88	4	G0	
89	4	K0	
90	1	G	
91	2	G5	
92	2	G5	
93	2	G0	
94	5	F5	
95	8	A0	
96	3	G0	
97	1	G	Partly superposed on 96.
98	4	F5	
99	4	F5	
100	2	G5	
101	4	G5	
102	4	K0	
103	9	A0	
104	8	K0	
105	3	A2	
106	4	F2	
Time: 10.55	107	5	K0
" 11.05	108	2	F8

82	+59°	1502	13	12.3	+59	22.7	8.5
83	+59°	1500	13	12.1	+59	30.9	8.0
84	+59°	1499	13	11.5	+59	31.2	8.5
85	+58°	1437	13	11.8	+58	35.3	7.4
86	+58°	1433	13	11.2	+58	39.6	8.8
87	+58°	1431	13	10.4	+58	57.8	8.3
88	+59°	1493	13	6.8	+59	12.9	7.8
89	+58°	1422	13	4.2	+58	48.5	8.0
90	+58°	1421	13	4.0	+58	20.4	8.9
91	+59°	1486	13	1.5	+59	54.3	8.5
92	+59°	1484	12	59.8	+59	34.2	8.5
93	+59°	1482	12	58.6	+59	39.8	8.8
94	+60°	1438	12	56.4	+60	1.5	7.6
95	+60°	1439	12	56.7	+60	31.4	6.5
96	+60°	1436	12	53.8	+60	12.3	8.5
97	+60°	1434	12	53.7	+60	11.7	9.2
98	+61°	1330	12	52.7	+61	4.8	8.5
99	+60°	1429	12	49.3	+60	24.6	8.5
100	+60°	1423	12	46.4	+60	40.7	8.6
101	+60°	1445	13	1.0	+60	55.9	8.0
102	+61°	1335	12	59.4	+61	38.2	8.3
103	+63°	1056	13	4.2	+63	1.1	6.4
104	+62°	1275	13	0.6	+62	49.8	6.0
105	+62°	1274	12	59.7	+62	51.3	8.7
106	+62°	1273	12	58.4	+62	31.8	8.2
107	+62°	1268	12	52.6	+62	30.2	6.8
108	+62°	1261	12	46.8	+62	42.6	9.0

cards made out

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Friday, June 14, 1912.

H 37668

No.	Int.	Class	Remark
109	4	F8	
110	7	A3	
111	10	A5	
112	2	ly	
113	2	F0	
114	3	ly5	
115	10	A0	
116	6	F5	E.
117	1	K	
118	2	ly0	
119	2	K2	
120	4	ly0	
121	3	K2	
122	7	ly5	
123	1	K	
124	4	ly0	
125	3	K2	E.
126	3	F5	E.
127	4	ly5	E.
128	6	F5	
129	8	F5	
130	2	ly5	
131	5	F0	
132	4	ly0	
133	3	ly0	
June. 11. 10 134	9	F5	E.
135			

109	+63°	1038	12	47.5	+63	23.2	8.5	✓
110	+63°	1037	12	44.8	+63	46.3	7.5	✓
111	+63°	1034	12	41.1	+63	33.7	6.0	✓
112	+63°	1032	12	40.6	+63	16.5	8.9	✓
113	+62°	1254	12	42.0	+62	38.4	8.3	✓
114	+62°	1252	12	39.8	+62	41.4	8.6	✓
115	+63°	1026	12	35.2	+63	31.7	6.5	✓
116	+64°	914	12	34.5	+64	34.5	7.2	✓
117	+62°	1246	12	34.4	+62	50.9	8.7	✓
118	+62°	1301	13	24.6	+62	0.1	8.3	✓
119	+62°	1299	13	24.4	+62	34.2	8.3	✓
120	+62°	1293	13	21.3	+62	37.3	7.9	✓
121	+63°	1076	13	21.8	+63	45.7	7.5	✓
122	+64°	949	13	21.0	+64	0.4	6.5	✓
123	+63°	1074	13	20.0	+63	52.2	8.0	✓
124	+63°	1071	13	18.3	+63	33.0	7.5	✓
125	+64°	946	13	16.4	+64	42.7	7.5	✓
126	+63°	1063	13	11.0	+63	49.8	8.3	✓
127	+64°	938	13	10.6	+64	23.6	8.0	✓
128	+63°	1057	13	5.9	+63	55.9	7.5	✓
129	+64°	932	13	3.6	+64	16.7	8.5	✓
130	+63°	1054	13	3.0	+63	56.6	8.5	✓
131	+63°	1053	13	2.5	+63	28.0	7.7	✓
132	+63°	1052	13	2.3	+63	45.5	8.3	✓
133	+63°	1048	12	59.4	+63	33.5	8.4	✓
134	+64°	927	12	56.1	+64	24.0	6.0	✓

Identified by ANS, July 2, 1912

cards made out by M. C. W. Checked by M. C. W. Sept. 24. 1912

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System