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

This book was examined for additional stars by A.M.C. Jan. 4, 1917

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

Friday, Oct. 25. 1918.

Time: 10.0'

I 38055

No	Frt.	Class	Remark
1	2	K0	E.
2	3	A	E.
3	2	A3	E.
4	1	G5	E.
5	2	A0	E.
6	2	F	E.
7	2	A3	E.
8	3	B9	
9	3	A3	
10	1	G	
11	1	G5	Another star partly superposed.
12	4	F2	
13	3	F5	
14	3	F5	
15	2	K0	
16	3	K2	
17	1	A	
18	2	G	
19	4	A2	
20	5	B9	
21	5	A0	
22	5	F2	
23	1	K0	
24	2	A0	
25	3	B9	
26	3	A0	
27	2	A0	

1	+39°	315	1	14.9	+39	50.9	7.7 ✓
2	+39°	318	1	15.7	+39	10.2	7.8 ✓
3	+39°	328	1	17.4	+39	56.7	8.0 ✓
4	+42°	286	1	13.0	+42	11.5	8.8 ✓
5	+41°	258	1	14.0	+41	34.6	9.0 ✓
6	+42°	291	1	15.5	+42	2.9	8.4 ✓
7	+43°	283	1	15.5	+43	4.8	8.5 ✓
8	+42°	299	1	16.7	+42	32.5	8.7 ✓
9	+42°	304	1	18.2	+42	3.8	8.4 ✓
10	+41°	276	1	19.3	+41	51.1	8.7 ✓
11	+41°	286	1	20.4	+41	56.5	8.4 ✓ +42° 309 mag. 9.2 superposed
12	+41°	290	1	21.4	+41	53.9	7.8 ✓
13	+41°	292	1	21.5	+41	15.5	8.5 ✓
14	+40°	309	1	23.6	+40	19.2	8.3 ✓
15	+41°	300	1	24.9	+41	35.4	8.5 ✓
16	+41°	304	1	25.8	+41	38.0	7.8 ✓
17	+41°	303	1	25.7	+41	50.3	8.7 ✓
18	+42°	323	1	26.7	+42	17.6	8.4 ✓
19	+43°	325	1	26.1	+43	2.6	8.4 ✓
20	+43°	318	1	24.7	+43	9.0	8.4 ✓
21	+43°	323	1	25.5	+43	20.4	8.1 ✓
22	+42°	313	1	22.6	+42	52.5	8.0 ✓
23	+42°	326	1	27.7	+42	37.2	9.0 ✓
24	+43°	332	1	28.2	+43	1.5	9.0 ✓
25	+42°	333	1	29.3	+42	55.6	8.5 ✓
26	+41°	315	1	28.3	+41	55.0	8.7 ✓ +42° 330 mag. 8.9 superposed
27	+41°	330	1	33.8	+41	27.4	8.5 ✓

cards made out

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

Friday Oct. 25 1912.

I 380 55

No	Int.	Class	Remark
28	2	A0	
29	1	F0	
30	3	F0	
31	2	A0	
32	1	F0	
33	1	F2	
34	1	A	
35	2	F2	
36	3	A5	
37	1	K	
38	1	G5	
39	1	A	
40	2	A0	
41	2	F0	
42	2	F5	
43	4	K0	
44	1	A	Emit nubes confirmed. Maybe F.
45	5	F2	
46	4	K2	
47	2	A5	
48	2	A	E.
49	4	A2	E. Like preceding of two.
50	3	F	E. " " " "
51	3	A	E.
52	3	K0	E.
53	3	K2	E.
54	2	G	E.

28	+41°	331	1	34.1	+41	58.2	8.7	J
29	+42°	357	1	34.8	+42	16.6	8.4	J
30	+42°	360	1	35.4	+42	30.4	7.7	J
31	+42°	356	1	34.6	+42	58.6	8.8	J
32	+42°	361	1	35.6	+42	55.0	8.7	J
33	+42°	364	1	36.7	+42	43.0	8.4	J
34	+42°	365	1	36.8	+42	59.5	8.9	J
35	+44°	360	1	36.7	+44	4.9	8.5	J
36	+43°	364	1	37.5	+43	55.1	8.5	J
37	+43°	372	1	39.8	+43	42.3	9.0	J
38	+43°	373	1	40.5	+43	0.4	8.5	J
39	+42°	376	1	39.4	+42	34.1	8.9	J
40	+41°	352	1	40.2	+41	59.0	8.9	J
41	+41°	353	1	40.5	+41	16.5	8.4	J
42	+42°	390	1	42.7	+42	3.2	8.4	J
43	+42°	388	1	43.3	+42	48.3	7.8	J
44	+42°	394	1	45.0	+42	13.2	9.0	J
45	+42°	397	1	46.9	+42	7.2	7.4	J
46	+42°	399	1	47.2	+42	21.2	7.5	J
47	+42°	401	1	47.5	+42	8.7	8.8	J
48	+42°	419	1	50.6	+42	59.3	8.9	J
49	+42°	424	1	52.5	+42	56.7	8.5	J
50	+43°	420	1	56.3	+43	31.8	8.6	J
51	+43°	267	1	10.8	+43	50.3	8.5	J
52	+44°	278	1	10.4	+44	53.4	8.0	J
53	+44°	279	1	10.6	+44	56.1	7.5	J
54	+43°	273	1	11.7	+43	11.5	8.0	J

cards made out

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

Friday, Oct. 25, 1912.
I 38055

No	Dur.	Class	Remarks
55	1	I	E.
56	2	A2	
57	2	K7	
58	1	A	
59	2	A2	
60	2	F5	
61	3	F2	
62	2	A3	
63	1	G5	
64	2	F8	
65	4	A0	
66	4	B9	
67	3	F0	
68	1	K	
69	2	A2	
70	1	A	
71	2	A	
72	1	F	
73	4	A0	
74	2	G0	
75	2	G	Another star partly superposed? Yes
76	1	K	
77	2	G	Another star partly superposed? Yes
78	1	A	
79	2	A0	
80	1	K	
81	4	B9	

55	+43°	281	1	15.4	+43	48.5	8.5	J	
56	+43°	286	1	16.8	+43	25.3 ~~28.8~~	8.9	~~+43°~~	mean 59 286 superposed,
57	+43°	294	1	17.9	+43	35.4	8.6	J	
58	+44°	306	1	18.7	+44	19.9	9.0	J	
59	+43°	300	1	19.4	+43	46.0	8.6	J	
60	+44°	311	1	20.0	+44	22.4	8.5	J	
61	+44°	312	1	20.1	+44	51.9	8.3	J	
62	+45°	359	1	21.2	+45	1.7	8.7	J	
63	+44°	315	1	20.8	+44	6.2	8.8	J	
64	+43°	305	1	20.4	+43	31.8	8.8	J	
65	+45°	365	1	23.2	+45	39.4	8.8	J	
66	+45°	376	1	25.8	+45	13.9	8.8	J	
67	+44°	326	1	26.0	+44	50.5	8.5	J	
68	+45°	380	1	25.9	+45	19.0	8.5	J	
69	+45°	383	1	26.6	+45	4.8	8.8	J	
70	+45°	388	1	27.5	+45	11.4	8.9	J	
71	+45°	387	1	27.4	+45	36.6	9.0	J	
72	+45°	394	1	28.1	+45	12.9	8.9	J	
73	+45°	396	1	29.3	+45	15.7	8.3	J	
74	+45°	398	1	29.7	+45	40.9	8.2	J	
75	+44°	328	1	26.7	+44	13.2	8.5	+44° 329	mean 8.4 superposed.
76	+43°	336	1	29.3	+43	46.7	8.8	J	
77	+44°	338	1	29.7	+44	~~46.2~~ 45.6	8.8	+44° 339	mean ~~9.2~~ 8.8 superposed
78	+44°	342	1	30.1	+44	25.5	9.2	J	
79	+44°	347	1	32.1	+44	16.4	8.5	J	
80	+44°	352	1	33.1	+44	50.7	9.0	J	
81	+45°	416	1	32.7	+45	40.2	8.3	J	

original island circuit a.f.b.

cards made out

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

Friday, Oct. 25, 1912.

I 38055

	Nr.	Int.	Class	Remark
	82	2	fy	
	83	1	A	
	84	3	fy^5	
	85	3	Ao	Another star partly superposed.
	86	2	fy_0	" " " "
	87	2	$\frac{fy}{fo}$	
	88	2	A3	
	89	3	fz	
	90	2	fy^5	
	91	1	fz	Partly superposed on 92.
	92	1	fy^5	
	93	3	Ao	
	94	3	Ao	
10.21	95	2	fy_0	
10.31	96	2	fz	
	97	1	fz	
	98	1	fz?	I 19649 gy^7 Too much superposed on 99
				Look afs. Too much superposed on 99.
	99	1	fy?	I 19649 gy^5
	100	2	fy^5	
	101	2	fy^2	E.
	102	2	A	E.
	103	1	fy^5	E.
10.35	104	1	~~Ma~~	E.
10.58	105	3	fy_0	
	106	2	A	E.
	107	2	A5	E.
	108	2	fy^5	E.

82	+46°	424	1	32.8	+46	4.6	8.5	
83	+46°	426	1	33.1	+46	1.6	8.8	
84	+45°	437	1	36.9	+45	57.9	8.1	
85	+44°	36[4]8	1	37.[2]8	+44	57.[8]9	9.[0]8	+44° 363 Superposed magn. 9.0
86	+44°	366	1	37.8	+44	57.8	9.1	+44° 367 Superposed magn. 8.8
87	+45°	449	1	39.5	+45	11.4	8.5	
88	+45°	450	1	39.7	+45	30.8	9.0	
89	+44°	374	1	40.3	+44	19.6	8.6	
90	+44°	379	1	42.7	+44	16.1	8.5	
91	+44°	380	1	42.9	+44	24.1	9.5	
92	+44°	381	1	43.0	+44	33.2	8.5	
93	+45°	464	1	42.8	+45	5.4	8.2	
94	+45°	477	1	46.1	+45	28.5	8.7	
95	+43°	386	1	44.6	+43	54.0	8.7	
96	+44°	389	1	47.2	+44	4.7	8.7	
97	+43°	394	1	47.2	+43	24.0	8.8	
98	+44°	394	1	49.2	+44	43.8	9.1	
99	+44°	393	1	49.1	+44	46.6	8.3	
100	+44°	397	1	49.6	+44	23.4	8.0	
101	+46	477	1	47.5	+46	34.4	8.4	
102	+45°	491	1	48.4	+45	36.8	8.8	
103	+45°	494	1	49.0	+45	45.7	8.6	
104	+45°	504	1	50.4	+45	26.3	8.7	
105	+46°	352	1	17.1	+46	22.0	7.3	
106	+47°	410	1	17.9	+47	13.5	7.5	
107	+47°	490	1	29.6	+47	22.0	8.2	
108	+47°	475	1	30.6	+47	30.9	8.4	
						cards	reader	out

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

Friday, Oct. 25, 1912.

I 38055

No.	Int.	Class	Remark
109	3 ..	a	E.
110	2	g	Focus poor.
111	2	gs	
112	8	Fs	
113	3	a0	
114	3	a5	Star surpn. on prec.
Friday June 11, 1915 12:14	11.5	5	a5
116	7	a0	
117	4	F0	
118	5	F0	
119	6	a0	
120	3	a0	
121	3	B9	

Cont. on 129, 110.

109	+47°	512	1	41.3	+47	48.5	8.4	✓
110	+46°	342	1	14.9	+46	8.2	8.0	✓
111	+46°	349	1	16.4	+46	24.7	7.8	✓

Identified by AMC. Oct. 5, 1912.
Checked by J.B.W. Nov. 7, 1912
cards made out by M.C.W.
Cards checked by ERB.

112	+45	447	1	38.9	+45	30	6.9	—
✓ 113	+43°	401	1	48.8	+43	50.6	8.0	41 on B2089
✓ +48°891 approx 114	+44°	392	1	49.0	+44	52.6	8.3	46 " "
✓ +46°3172 approx 115	+40°	315	1	25.1	+40	8.4	7.0	16 " 736956
✓ 116	+42°	352	1	33.4	+42	54.2	7.5	25 " "
✓ 117	+43°	337	1	30.0	+43	24.2	7.5	49 " "
✓ 118	+42°	362	1	36.4	+42	58.7	7.7	26 " "
✓ 119	+42°	370	1	37.6	+42	58.8	7.5	27 " "
✓ 120	+44°	350	1	33.0	+44	18.8	8.6	51 " "
121	+44°	357	1	35.0	+44	40.6	8.5	53 " "

Ident. in Book by M.A.H. June 11, 1915
Cards made out " " " "
Checked by A.J.C.

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

Friday Oct. 25 1912.

Time: 10.55

I 38087

No	Int.	Class	Remark
1	2	N0	E.
2	2	b	E.
3	2	b	E Partly superposed on 2.
4	2	A	E.
5	5	A0	
6	2	N0	
7	1	b5	
8	2	A3	
9	4	N2	
10	2	A2	
11	2	A2	
12	3	B9	
13	2	b5	
14	2	N5	
15	2	A0	
16	2	F5	
17	4	B9	
18	3	A2	
19	2	F2	
20	2	B9	
21	2	A0	
22	1	A	
23	1	A	
24	2	A	
25	2	A5	
26	3	F0	
27	1	F	

1	+46°	783	3	10.2	+46	15.0	7.3
2	+46°	782	3	10.1	+46	45.6	8.0
3	+46°	731	3	10.0	+46	59.3	8.3
4	+46°	748	3	15.6	+46	30.8	8.8
5	+46°	751	3	16.4	+46	45.1	8.4
6	+46°	757	3	18.6	+46	51.4	8.3
7	+46°	758	3	18.8	+46	52.1	8.5
8	+47°	842	3	20.4	+47	7.1	8.7
9	+45°	784	3	23.1	+45	45.1	8.5
10	+46°	769	3	24.0	+46	20.7	8.8
11	+46°	770	3	24.1	+46	47.1	9.1
12	+47°	854	3	25.8	+47	17.8	9.0
13	+46°	777	3	26.5	+46	46.1	8.5
14	+46°	779	3	26.9	+46	44.5	8.6
15	+47°	859	3	26.9	+47	1.9	9.2
16	+47°	862	3	27.4	+47	38.4	8.5
17	+47°	864	3	27.8	+47	45.8	8.9
18	+48°	974	3	28.3	+48	7.1	8.7
19	+47°	868	3	29.0	+47	36.5	8.8
20	+48°	979	3	30.2	+48	25.0	8.9
21	+49°	988	3	30.0	+49	6.7	8.8
22	+48°	976	3	31.7	+48	34.7	9.3
23	+48°	979	3	32.6	+48	29.8	9.3
24	+49°	1008	3	33.4	+49	4.7	8.9
25	+49°	1006	3	33.4	+49	30.9	9.0
26	+49°	1001	3	32.4	+49	44.0	8.6
27	+49°	1015	3	35.3	+49	57.3	8.7

cards made out

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

Friday. Oct. 25, 1912.

I 380 #87

No	Int.	Class	Remark
28	3	K2	
29	2	K0	
30	3	F5	
31	1	A	Partly superposed on 30.
32	2	K2	
33	3	A0	
34	2	A	
35	8	A5	
36	2	K2	
37	3	K0	
38	2	K0	
39	2	K0	
40	2	K0	
41	4	A0	
42	3	K0	
43	1	A	E.
44	1	G	E.
45	2	K0	
46	2	F5	
47	1	A	Partly superposed on 46.
48	2	A2	
49	2	A0	
50	2	F5	
51	3	F2	
52	2	F5	
53	1	A	
54	2	G5	

28	+49°	1024	3	37.0	+49	54.3	8.4 ↓	
29	+48°	993	3	37.4	+48	52.3	8.9 ↓	
30	+48°	990	3	36.3	+48	20.4	8.3 ↓	
31	+48°	991	3	36.4	+48	18.3	9.4 ↓	
32	+48°	987	3	34.8	+48	1.4	8.1 ↓	
33	+47°	879	3	34.2	+47	6.1	8.5 ↓	
34	+45°	793	3	28.0	+45	47.5	9.0 ↓	
35	+45°	804	3	34.6	+45	39.2	6.5 ↓	
36	+46°	795	3	36.8	+46	9.7	7.8 ↓	
37	+47°	886	3	36.5	+47	8.4	7.9	
38	+47°	884	3	35.8	+47	31.5	8.4 ↓	
39	+48°	996	3	38.0	+48	5.8	8.5 ↓	
40	+47°	892	3	38.5	+47	50.1	8.4 ↓	
41	+48°	998	3	38.2	+48	20.9	8.5 ↓	
42	+47°	894	3	39.4	+47	13.3	8.3 ↓	
43	+46°	804	3	39.6	+46	31.2	9.3 ↓	+46° 805 enfolded.
44	+46°	806	3	39.7	+46	17.5	9.0 ↓	
45	+47°	900	3	41.3	+47	5.8	8.0 !	
46	+47°	897	3	40.5	+47	37.0	8.7 ↓	
47	+47°	898	3	40.7	+47	40.4	9.2 ↓	
48	+48°	1008	3	40.3	+48	8.3	8.8 !	
49	+48°	1005	3	39.8	+48	34.5	8.9 ↓	
50	+49°	1037	3	40.4	+49	1.5	8.8 ↓	
51	+49°	1042	3	41.0	+49	20.5	8.4 ↓	~~+49° 1041 enfolded.~~
52	+47°	901	3	41.7	+47	49.6	9.0 ↓	~~+47° 900~~
53	+47°	905	3	42.3	+47	11.4	9.3 !	
54	+47°	908	3	43.6	+47	4.0	8.4 !	

cards made out

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

Friday, Oct. 26, 1912.

I 38087

No.	Int.	Class	Remark
55	4	A0	
56	2	A2	
57	1	A	E.
58	2	A0	
59	2	A0	
60	3	F8	
61	2	F2	
62	2	G	E.
63	2	A2	E.
64	1	G	E.
65	2	A3	E.
66	2	A	
67	2	F5	
68	2	G	
69	3	K0	
70	2	A0	
71	2	K2	
72	5	K5	
73	4	A0	
74	4	A2	
75	2	G0	
76	3	A0	
77	2	K0	
78	1	F5	
79	6	A	E.
80	4	A0	
81	3	A	E.

55	+47°	910	3	44.3	+47	18.2	8.8	↓
56	+46°	916	3	43.5	+46	0.9	8.5	↓
57	+45°	841	3	45.3	+45	52.6	9.1	↓
58	+46°	824	3	46.5	+46	29.3	8.9	↓
59	+47°	918	3	47.7	+47	52.5	9.3	↓
60	+48°	1022	3	47.5	+48	19.1	8.6	↓
61	+47°	930	3	51.9	+47	59.0	8.7	↓
62	+48°	1034	3	54.0	+48	21.6	9.0	↓
63	+48°	1036	3	54.5	+48	3.3	8.8	↓
64	+48°	1037	3	54.5	+48	28.5	9.0	↓
65	+48°	1038	3	54.6	+48	24.5	9.0	↓
66	+49°	1092	3	53.4	+49	24.6	9.0	↓
67	+49°	1094	3	53.9	+49	41.2	8.8	↓
68	+49°	1032	3	38.6	+49	56.3	8.7	↓
69	+50°	834	3	38.7	+50	28.8	8.0	↓
70	+50°	835	3	39.0	+50	44.9	8.8	↓
71	+50°	847	3	41.4	+50	20.4	7.7	↓
72	+50°	849	3	42.2	+50	36.6	7.4	↓
73	+50°	851	3	43.0	+50	30.8	8.3	↓
74	+51°	796	3	43.4	+51	6.7	8.1	↓
75	+49°	1054	3	43.5	+49	59.0	8.5	↓
76	+49°	1058	3	44.1	+49	54.8	8.5	↓
77	+49°	1057	3	44.0	+49	19.0	8.1	↓
78	+49°	1073	3	48.0	+49	47.9	8.8	↓
79	+50°	731	3	6.4	+50	40.5	7.6	↓
80	+50°	736	3	8.1	+60	1.2	8.0	↓
81	+51°	720	3	10.8	+51	2.9	8.3	↓

cards made out

magn. 9.5
+49° 1056 superposed..
+49° 1074 "

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

Friday, Oct. 25, 1912.

I 38087

No.	Int.	Class	Remark
82	2	A2	
83	2	A0	
84	2	A2	
85	4	A3	The following of two.
86	2	F5	
87	1	A5	Partly superposed on 86.
88	3	A2	
89	3	A0	
90	4	A0	
91	2	A2	
92	3	A3	
93	2	G5	
94	3	F0	
95	3	A3	
96	3	A5	
97	3	G0	
98	4	A0	
99	2	K5	
100	2	G	
Exam: 11.15	101	6	G0
" 12.45	102	2	F0
	103	2	A5
	104	2	F5
	105	2	F2
	106	2	A
	106a	1	A
	107	2	G0
	108	1	A

82	+50°	744	3	11.1	+50	57.5	8.5	↓
83	+50°	746	3	11.6	+50	34.2	8.8	↓
84	+51°	723	3	~~12.0~~ 11.9	+51	8.3	8.8	↓
85	+48°	909	3	15.1	+48	48.5	8.1	↓
86	+49°	921	3	14.7	+49	16.5	8.9	↓
87	+49°	922	3	14.8	+49	18.7	8.7	↓
88	+49°	923	3	14.9	+49	34.1	8.5	↓
89	+48°	918	3	17.2	+48	32.5	8.8	↓
90	+49°	938	3	17.9	+49	27.4	8.3	↓
91	+49°	940	3	18.2	+49	7.3	9.0	↓
92	+47°	829	3	17.4	+47	20.0	8.7	↓
93	+49°	947	3	19.4	+49	39.2	8.6	↓
94	+49°	950	3	20.2	+49	16.5	8.8	↓
95	+49°	953	3	20.9	+49	12.3	8.2	↓
96	+49°	954	3	21.1	+49	24.1	8.0	↓
97	+49°	955	3	21.3	+49	54.8	8.0	↓
98	+49°	959	3	21.8	+49	2.2	8.8	↓
99	+48°	953	3	24.7	+48	39.2	8.4	↓
100	+49°	985	3	29.4	+49	28.9	8.9	↓
101	+50°	800	3	30.8	+50	20.7	7.8	↓
102	+51°	760	3	29.8	+51	33.3	8.8	↓
103	+51°	759	3	29.8	+51	51.5	9.1	↓
104	+51°	764	3	32.3	+51	12.0	8.3	↓
105	+52°	767	3	33.5	+51	20.2	8.8	↓
106	+52°	711	3	45.1	+52	29.2	9.0	↓
106a	+52°	709	3	33.2	+52	0.3	9.0	↓
107	+51°	777	3	37.5	+51	35.3	8.3	↓
108	+51°	789	3	40.0	+51	30.5	9.1	↓

cards made out

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

Friday, Oct. 25, 1912.

I 38087

Nr.	Int.	Class	Remark
109	3!	A2	
110	2	Ly5	
111	3	Fe	
112	4	Ly6	
113	1	A	
114	2	A0	
115	4	B8	E.
116	4	Ly0	E.
117	3	F8	E.
118	3	F0	E.
119	1	K2	
120	1	Ly5	
121	1	A	
122	4	F5	
123	1	K2	
124	3	A0	
125	2	F	Liver H appears fainter than normal.
126	4	B8	
127	2	Ly0	
128	2	A	E.
Prime: 12.51 129	2	F5	E.

Cont. → BR-130, P. 96

109	+52°	716	3	40.5	+52	3.6	8.6 ↓
110	+51°	793	3	42.2	+51	48.9	8.2 ↓
111	+52°	720	3	42.6	+52	7.7	8.4 ↓
112	+51°	798	3	43.9	+51	59.5	7.8 ↓
113	+51°	799	3	44.2	+51	58.0	9.0 ↓
114	+52°	728	3	45.4	+52	6.3	8.7 ↓
115	+53°	708	3	41.8	+53	2.8	8.0 ↓
116	+52°	722	3	42.7	+52	51.0	7.9 ↓
117	+53°	712	3	44.3	+53	7.1	8.5 ↓
118	+53°	706	3	40.6	+53	40.0	8.2 ↓
119	+51°	827	3	50.1	+51	44.8	8.5 ↓
120	+51°	835	3	51.7	+51	44.0	8.9 ↓
121	+52°	751	3	53.2	+52	21.1	9.0 ↓
122	+51°	733	3	16.1	+51	12.9	8.0 ↓
123	+50°	764	3	17.6	+50	26.8	8.1 ↓
124	+50°	771	3	20.3	+50	31.6	8.6 ↓
125	+50°	770	3	19.6	+50	51.0	8.9 ↓
126	+51°	744	3	21.8	+51	34.0	8.4 ↓
127	+51°	751	3	23.1	+51	48.4	8.3 ↓
128	+53°	675	3	21.8	+53	45.1	8.4 ↓
129	+53°	690	3	27.6	+53	23.1	8.3 ↓

Identified by J. C. M. Oct. 29, 1912.
Checked by AMC. Oct. 31, 1912
cards made out by M. C. W.
Cards checked by E.C.W.

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

Monday, Oct. 28, 1912.

Time: 10. 26

I 38084

No.	Int.	Class	Remark
1	3	M2	E.
2	2	A2	
3	3	A0	
4	3	A0	
5	3	A	Partly superposed on 6.
6	3	A	" " " 5.
7	3	M0	
8	3	M	Partly superposed on 7.
9	9	A0	
10	2	A2	
11	2	A	E.
12	1	A	
13	2	A2	
14	5	A0	
15	2	A0	
16	4	M2	
17	7	B9	
18	5	M2	
19	2	M0	
20	6	B9	E.
21	3	A5	
22	3	A2	
23	3	M0	
24	3	A0	
25	1	M	
26	6	B9	
27	7	B9	

1	+18°	873	5	23.2	+18	7.6	7.4 ✓
21	+19°	1009	5	32.2	+19	2.6	8.8 ✓
3	+18°	911	5	32.6	+18	33.7	8.5 ✓
4	+19°	1019	5	33.0	+19	8.4	8.4 ✓
5	+19°	1023	5	33.2	+19	17.2	8.0 ✓
6	+19°	1024	5	33.2	+19	21.5	8.5 ✓
7	+18°	920	5	34.0	+18	55.1	7.5 ✓
8	+18°	918	5	33.9	+18	36.3	8.3 ✓
9	+18°	923	5	34.4	+18	55.0	7.1 ✓
10	+18°	926	5	34.6	+18	26.3	8.7 ✓
11	+18°	931	5	35.0	+18	4.4	8.8 ✓
12	+18°	934	5	35.3	+18	33.9	9.0 ✓
13	+18°	939	5	35.9	+18	27.3	8.6 ✓
14	+18°	938	5	35.8	+18	47.1	7.8 ✓
15	+18°	946	5	36.4	+18	40.2	8.9 ✓
16	+18°	950	5	36.7	+18	38.1	7.5 ✓
17	+18°	957	5	37.3	+18	43.8	8.2 ✓
18	+18°	959	5	37.6	+18	48.4	8.3 ✓
19	+18°	966	5	38.9	+18	40.4	8.3 ✓
20	+17°	1029	5	42.1	+17	59.0	7.8 ✓
21	+19°	1089	5	41.6	+19	7.6	8.1 ✓
22	+20°	1128	5	41.9	+20	23.7	8.8 ✓
23	+20°	1131	5	42.1	+20	37.4	8.3 ✓
24	+20°	1132	5	42.2	+20	7.2	8.5 ✓
25	+20°	1138	5	43.0	+20	24.3	9.1 ✓
26	+20°	1144	5	43.8	+20	38.8	8.3 ✓
07	+20°	1149	5	44.3	+20	44.0	7.7 ✓

Condo made and

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

Thursday, Oct. 28, 1915.

I 38084

No.	Int.	Class	Remark
28	3	K2	
29	4	K5	
30	3	K8	
31	3	A0	
32	2	A3	
33	2	K0	Another star partly superposed.
34	2	A5	
35	2	F	Partly superposed on 34.
36	2	K0	
37	3	A0	Another star partly superposed on fr. side.
38	2	A2	
39	2	A5	
40	4	A0	
41	1	K	
42	3	A0	
43	2	A	Other stars partly superposed.
44	1	F5?	Omit unless confirmed.
45	X5	K3	
46	2	K0	
47	2	K	0. 6. 10. of Saml. Kum
48	3	K0	
49	2	A5	
50	1	F	
51	1	F	
52	5	K2	
53	4	K5	
54	3	A3	

28	+21°	1027	5	44.9	+21	7.5	8.2	
29	+21°	1025	5	44.6	+21	30.3	8.2	✓
30	+22°	1080	5	44.6	+22	2.3	8.5	
31	+21°	1030	5	45.3	+21	48.0	8.7	✓
32	+20°	1159	5	45.6	+20	49.5	9.1	✓
33	+21°	896	5	26.8	+21	6.1	8.5	✓ +21° 897 magn. 8.9 Superposed
34	+21°	922	5	31.5	+21	15.2	8.8	✓
35	+21°	928	5	31.6	+21	12.5	8.7	✓
36	+21°	928	5	32.4	+21	14.7	8.7	✓
37	+21°	939	5	33.4	+21	30.0	8.7	4 37 +21 magn 9.0 9 35 Superposed
38	+21°	941	5	34.0	+21	30.2	9.0	✓
39	+20°	1049	5	33.3	+20	25.2	8.8	✓
40	+20°	1054	5	33.8	+20	31.8	8.3	✓
41	+19°	1014	5	32.6	+19	58.8	8.3	✓
42	+21°	946	5	34.7	+21	20.6	8.3	✓
43	+20°	1064	5	35.0	+20	25.8	8.8	4 20 1065 magn. 9.1 Superposed
44	+20°	1070	5	36.1	+20	38.0	8.9	✓
45	+20°	1073	5	36.2	+20	28.6	8.2	✓
46	+20°	1082	5	36.9	+20	26.6	8.5	✓
47	+20°	1083	5	37.0	+20	37.4	Var.	✓
48	+20°	1085	5	37.4	+20	11.2	8.2	✓ +20° 1087 magn. 8.7 Superposed
49	+19°	1045	5	36.0	+19	27.6	9.2	✓
50	+20°	1091	5	37.9	+20	14.7	8.5	✓
51	+19°	1067	5	38.0	+19	52.4	9.0	✓
52	+20°	1093	5	38.2	+20	6.7	7.3	✓
53	+20°	1095	5	38.3	+20	13.1	7.4	✓
54	+21°	981	5	38.1	+21	8.4	8.8	✓

cards made out

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

Thursday Oct. 28. 1912.

I 38084

No	Int.	Class	Remark
55	5	Comp	1' = 0.2 H. Br. = 7 7'=A.
56	2	K0	Another star partly superposed.
57	8	B9	Star of class A superposed on following side
58	2	A0	
59	6	B9	
60	1	K2	
61	3	A0	
62	2	A2	
63	1	K2	
64	2	A	
65	4	A2	
66	4	A0	
67	4	B9	
68	3	K0	
69	4	A0	
70	4	K5	
71	2	A2	
72	2	A2	
73	3	A0	
74	2	A	Another star superposed?
75	2	A2	
76	2	F8	
77	2	G0	
78	1	F	
79	2	Neb	
80	2	K2	
81	2	G5	

55	+20°	1100	5	39.0	+20	53.2	8.0	✓
56	+21°	995	5	39.4	+21	0.3	8.5	✓
57	+20°	1105	5	39.7	+20	48.9	7.3	✓ +20° 1106 magn 8.5 Superposed
58	+20°	1111	5	40.2	+20	57.8	9.0	✓
59	+21°	1003	5	40.5	+21	5.0	7.9	✓
60	+21°	1007	5	40.8	+21	16.1	9.0	✓
61	+21°	1008	5	40.9	+21	46.4	8.5	✓
62	+22°	1048	5	40.8	+22	40.7	8.8	✓
63	+22°	1052	5	41.3	+22	30.1	8.5	✓
64	+22°	1050	5	41.1	+22	55.7	8.9	✓
65	+22°	1051	5	41.2	+22	54.8	8.5	✓
66	+23°	1083	5	42.4	+23	52.8	8.8	✓
67	+22°	1059	5	42.2	+22	27.6	8.4	✓
68	+22°	1065	5	42.9	+22	52.4	7.8	✓
69	+23°	1085	5	42.8	+23	11.0	8.2	✓
70	+28°	1087	5	43.0	+23	20.2	7.3	✓
71	+22°	1072	5	43.7	+22	41.2	9.1	✓
72	+22°	1081	5	44.6	+22	45.4	8.8	✓
73	+23°	1100	5	44.9	+23	13.0	8.6	✓
74	+22°	1085	5	44.9	+22	~~22.7~~	9.0	✓ +22° 1085 magn. 9.0 Superposed
75	+23°	1108	5	46.9	+23	15.0	8.7	✓
76	+23°	1119	5	48.4	+23	23.6	8.5	✓
77	+21°	1056	5	48.7	+21	57.7	8.9	✓ +21° 1057 magn 9.3 Superposed
78	+21°	1051	5	48.1	+21	42.6	8.9	✓
79	+22°	1109	5	48.3	+22	48.6	8.2	✓
80	+23°	938	5	24.3	+23	1.8	7.8	✓
81	+22°	942	5	24.5	+22	50.7	8.5	✓

Cards made out

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

Thursday. Oct. 28, 1915.

I 38084

No.	Int	Class	Remark
82	2	G	
83	1	A	
84	3	F?	Another star superposed.
85	3	A	
86	1	G5	
87	2	F8	
88	3	F5	
89	2	A0	
90	2	F0	
91	5	F2	
92	3	A0	
93	4	A	Partly superposed on 94.
94	4	B9	
95	8	B3	
96	2	A0	
97	2	B8	
98	1	A	
99	2	Cond.	H 3 bright? Probably class B.
100	1	A2	
101	2	F0	
102	4	F2	
103	3	A2	
104	2	F	
105	3	G0	
106	2	A2	
107	3	F0	
108	4	F0	

82	+23°	942	5	24.7	+23	13.7	8.7	✓
83	+23°	951	5	26.5	+23	24.6	8.8	✓
84	+23°	973	5	28.8	+23	2.9	8.8	+23° 974 superposed magn. 8.8
85	+24°	895	5	29.2	+24	13.2	8.8	✓
86	+23°	978	5	29.7	+23	37.0	9.1	✓
87	+23°	981	5	30.4	+23	12.1	8.6	✓
88	+22°	989	5	33.0	+22	48.2	8.0	✓
89	+22°	991	5	33.1	+22	36.4	8.7	✓
90	+22°	993	5	33.2	+22	28.3	8.2	✓
91	+22°	996	5	33.3	+22	35.0	6.8	✓
92	+22°	1000	5	33.5	+22	17.7	8.7	✓
93	+22°	1003	5	34.2	+22	23.4	8.6	✓
94	+22°	1004	5	34.3	+22	35.7	8.3	✓
95	+23°	1016	5	34.5	+23	7.9	6.3	✓
96	+22°	1007	5	34.6	+22	8.3	8.7	✓
97	+21°	949	5	35.2	+21	532.9	8.9	✓
98	+21°	953	5	35.7	+21	17.9	9.0	✓
99	+21°	958	5	36.2	+21	23.4	9.1	✓
100	+21°	972	5	37.1	+21	23.4	9.0	✓
101	+21°	975	5	37.2	+21	40.1	8.3	✓
102	+21°	978	5	37.3	+21	14.9	8.0	✓
103	+21°	979	5	37.4	+21	12.9	8.5	✓
104	+21°	983	5	38.3	+21	36.3	8.7	✓
105	+21°	984	5	38.4	+21	48.6	8.3	✓
106	+22°	1026	5	37.4	+22	8.6	8.8	✓
107	+22°	1031	5	38.5	+22	28.1	8.2	✓
108	+22°	1032	5	38.7	+22	51.8	8.0	✓
						cards	made	out

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

Monday. Oct 28 1913.

I 38084

No.	Int	Class	Remark
109	2	K0	
110	2	K5	
111	2	A2	
112	5	A0	
113	5	A3	
114	1	A3	
115	5	K2	Another star partly superposed.
116	4	A0	
117	10	K0	
118	3	K0	The following of two
119	3	K4	
120	1	K	
121	1	A	
122	1	A5	
123	1	K	
124	1	A	
125	3	K5	
126	5	K8	
127			Omit. Too faint.
128	3	A	
129	2	A	
130	4	A2	Trace of K band emn. Maybe comp.
131	2	K0	
132	3	A	E.
133	2	K	E.
134	1	K	
135	2	K5	

109	+22°	1025	5	37.4	+22	42.6	8.3 ✓
110	+22°	1017	5	36.2	+22	50.3	8.4 ✓
111	+23°	1080	5	36.5	+23	19.4	8.8 ✓
112	+23°	1036	5	37.1	+23	40.9	7.8 ✓
113	+24°	950	5	37.1	+24	9.7	8.0 ✓
114	+24°	956	5	38.3	+24	35.5	8.8 ✓
115	+24°	963	5	39.4	+24	34.8	8.0 + 24° 962 Superposed magn. 8.0
116	+24°	968	5	39.7	+24	19.4	8.5 + 24° 969 Superposed magn. 9.1
117	+24°	970	5	40.1	+24	30.9	8.3 ✓
118	+24°	973	5	40.5	+24	10.6	8.0 ✓
119	+23°	1060	5	39.8	+23	43.7	8.4 ✓
120	+23°	1043	5	38.6	+23	49.6	8.3 ✓
121	+24°	961	5	38.9	+24	1.1	9.0 ✓
122	+24°	980	5	41.7	+24	5.3	8.8 ✓
123	+25°	1005	5	42.1	+25	10.6	8.9 ✓
124	+25°	1014	5	43.7	+25	15.1	8.8 ✓
125	+25°	1020	5	44.6	+25	2.2	7.8 ✓
126	+24°	1007	5	44.7	+24	15.0	7.8 ✓
127	+25°	1019	5	44.5	+25	42.3	8.5 ✓
128	+25°	1021	5	44.7	+25	33.2	8.2 ✓
129	+25°	1024	5	45.1	+25	30.4	8.6 ✓
130	+25°	1034	5	47.3	+25	18.0	7.9 ✓
131	+25°	1053	5	49.2	+25	32.9	8.3 ✓
132	+26°	864	5	27.0	+26	10.2	8.4 ✓
133	+25°	878	5	27.5	+25	29.7	8.5 ✓
134	+24°	882	5	27.6	+24	16.0	8.2 ✓ Trail 1.5 arc superposed
135	+24°	~~934~~ 873	5	~~27.1~~	+24	~~38.8~~ 37.8	~~8.3~~ 8.5 ✓

cards made out

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

Tuesday, Oct. 28, 1913.

I 38084

Nr.	Int	Class	Remark
136	4	F8	
137	5	A0	
138	1	A	
139	2	K0	
140	3	G5	
141	3	A2	
142	4	K0	Another star superposed ?
143	3	A0	
144	2	F5	
145	1	G5	
146	3	A5	
147	2	A	
148	3	K0	
149	2	F	Another star superposed ? yes
149a		a	
150	2	K0	
151	4	A	Another star superposed.
152	4	A0	
153	3	A5	
154	2	A2	The following of two.
155	6	B	H's bright lines indistinct.
156	3	A	E.
157	1	K	E.
158	2	F	Another star partly superposed
159	2	G5	E.
160	1	K	E.
Jima 11.08	161	3	A	E.
	162		

cont. 132, 126

136	+24°	918	5	32.2	+24	15.7	8.2
137	+24°	920	5	33.1	+24	14.2	7.8
138	+23°	1014	5	34.3	+23	39.5	8.7
139	+24°	931	5	34.6	+24	0.8	7.9
140	+24°	940	5	35.7	+24	50.6	7.9
141	+24°	942	5	36.3	+24	37.0	8.0
142	+25°	961	5	36.6	+25	3.0	8.0	magn. 9.2 +25° 959 Superposed
143	+25°	953	5	35.9	+25	41.9	8.1
144	+25°	958	5	36.6	+25	46.3	8.5
145	+25°	967	5	37.3	+25	38.0	8.4
146	+25°	975	5	38.1	+25	47.6	8.5
147	+26°	963	5	39.7	+26	0.5	9.0
148	+25°	991	5	40.1	+25	35.3	7.6	magn. 9.2
149	+25°	911	5	31.3	+25	5.3	8.9	+25° 905 Superposed
149a	+25°	907	5	31.3	+25	8.1	8.5	+24 911
150	+25°	910	5	31.8	+25	10.9	8.5
151	+25°	918	5	32.7	+25	25.9	8.4
152	+25°	934	5	34.1	+25	17.6	8.2
153	+25°	940	5	34.6	+25	13.1	8.0
154	+24°	934	5	34.8	+24	59.8	8.6
155	+25°	941	5	34.7	+25	22.2	6.8
156	+26°	906	5	33.0	+26	12.2	8.6
157	+26°	908	5	33.4	+26	22.1	8.3
158	+26°	920	5	34.5	+26	13.8	8.5	magn. 8.3 +26° 922 Superposed
159	+25°	852	5	24.0	+25	47.7	8.0
160	+26°	834	5	22.9	+26	34.2	7.7
161	+26°	992	5	45.0	+26	23.1	8.3

Identified by ANC. Nov. 4, 1912

Checked by J. C. M. Nov. 14, 1912 — cards ruled out by W. C. W.

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

Friday, November 1, 1912

Time: 10.18

B17401 short exps.

No.	Int.	Class	Remark
1	1	K_5	
2	5	K_5	
3	3	K_0	
4	2	K_0	
5	2	K_5	
6	6	A_5	
7	8	F_2	
8	7	F_5	
9	2	K_0	
10	3	K_0	
11	3	A_5	
12	7	K_0	
13	6	F_0	
14	4	F_0	
15	2	K_0	
16	4	A_2	
17	4	F_0	
18	7	F_2	
19	4	A_2	
20	3	K_5	
21	7	F_0 E	
22	5	A_5	Party surfeited on 23.
23	4	K_0	
24	2	K_5	
25	1	K_0	
26	7	K_2	
27	7	K_5	

1	-25°	1888	4	21.9	-25	17.8	9.1 ↓
2	-25°	1903	4	23.7	-25	28.0	7.5 ↓
3	-25°	1919	4	25.8	-25	15.0	8.1 ↓
4	-24°	2403	4	26.6	-24	50.4	8.7 ↓
5	-25°	1931	4	26.7	-25	2.0	8.5 ↓
6	-25°	1941	4	27.5	-25	39.0	7.6 ↓
7	-25°	1946	4	28.0	-25	49.9	7.1 ↓
8	-25°	1961	4	29.7	-25	17.5	7.3 ↓
9	-26°	1746	4	29.9	-26	13.7	8.2 ↓
10	-25°	1978	4	32.0	-25	49.0	8.1 ↓
11	-25°	1977	4	31.9	-25	25.4	8.4 ↓
12	-25°	1990	4	33.8	-25	56.9	7.1 ↓
13	-26°	1787	4	35.5	-26	1.2	7.9 ↓
14	-26°	1770	4	33.3	-26	27.0	8.5 ↓
15	-26°	1786	4	35.5	-26	19.1	8.2 ↓
16	-26°	1792	4	36.8	-26	40.6	8.7 ↓
17	-26°	1801	4	37.9	-26	28.6	8.5 ↓
18	-26°	1812	4	38.9	-26	9.3	7.8 ↓
19	-25°	2031 ~~1981~~	4	39.5	-25	55.6	7.9 ↓
20	-26°	1827	4	40.2	-26	15.6	8.0 ↓
21	-26°	1842	4	41.7	-26	31.6	7.5 ↓
22	-26°	~~1845~~ 1820	4	39.7	-26	55.7	8.8 ↓
23	-27°	1878	4	~~40.0~~ 39.7	-27	0.3 26	~~7.7~~ 7.9 ↓
24	-27°	1876	4	40.0	-27	2.6	8.5 ↓
25	-27°	1871	4	39.4	-27	28.5	8.6 ↓
26	-27°	1869	4	39.2	-27	48.5	7.0 ↓
27	-28°	1712	4	39.5	-28	11.3	7.8 ↓

cards made out

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

Friday Nov. 1, 1918

B 1740 short disp.

No.	Int.	Class	Remark
28	3	K0	
29	2	F8	
30	4	K2	
31	2	K0	
32	4	G5	
33	6	K0	
34	6	A2	
35	4	F0	
36	2	G0	
37	2	A2	
38	4	G5	
39	3	Ma	
40	5	K0	
41	3	K0	
42	3	F5	
43	2	K2	
44	3	K2	
45	6	K0	
46	3	K2	
47	2	F2	
48	2	G0	
49	3	G5	
50	6	F2	
51	3	K0	
52	2	F0	
53	2	K0	
54	2	K0	

28	−27°	1857	4	37.8	−27	15.6	8.5 J
29	−26°	1667	4	19.8	−26	44.9	8.8 J
30	−26°	1676	4	21.2	−26	33.7	8.0 J
31	−26°	1688	4	22.9	−26	16.0	8.3 J
32	−26°	1691	4	23.5	−26	33.6	8.2 J
33	−26°	1697	4	24.4	−26	33.0	7.0 V
34	−26°	1690	4	23.1	−26	56.7	8.0 J
35	−27°	1727	4	24.2	−27	16.6	8.6 J
36	−27°	1709	4	21.6	−27	32.4	8.6 J
37	−27°	1717	4	22.9	−27	38.3	9.0 J
38	−27°	1685	4	18.4	−27	57.0	8.0 J
39	−28°	1527	4	18.6	−28	7.6	8.0 V
40	−28°	1536	4	19.8	−28	29.3	7.7 V
41	−28°	1543	4	20.5	−28	46.3	8.2 J
42	−29°	1714	4	20.8	−29	2.4	8.7 J
43	−28°	1552	4	22.0	−28	57.3	8.8 J
44	−29°	1721	4	21.6	−29	13.8	8.5 J
45	−29°	1728	4	22.5	−29	29.3	7.7 J
46	−28°	1567	4	24.6	−28	38.6	8.4 J
47	−28°	1569	4	24.9	−28	41.6	8.9 J
48	−28°	1572	4	25.3	−28	0.7	9.1 J
49	−28°	1578	4	26.2	−28	6.6	8.4 J
50	−26°	1714	4	25.9	−26	16.1	8.4 J
51	−26°	1709	4	25.8	−26	2.0	8.6 J
52	−25°	1905	4	24.0	−25	52.8	8.5 J
53	−26°	1731	4	27.9	−26	29.6	8.5 J
54	−26°	1753	4	31.3	−26	49.3	8.2 J

corrs made

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

Friday. Nov. 1, 1912

B17401 shot disp.

No.	Int.	Class	Remark
55	5	F5	
56	1	K1	
57	7	A2	
58	9	F5	
59	4	G0	
60	4	K2	
61	7	A3	
62	4	A0	
63	7	G0	
64	2	G0	
65	4	A2	
66	2	F5	
67	1	A	
68	1	G5	
69	1	F5	
70	1	F	Partly superposed on 71.
71	4	G0	
72	9	F2	
73	1	G	
74	1	G5	
75	4	F8	
76	1	K5	
77	4	F0	
78	6	F5	
79	2	F8	
80	1	K0	
81	1	K	

53	−26°	1755	4	31.6	− 26	41.3	8.1 J
56	−26°	1762	4	31.9	− 26	32.6	8.9 K
57	−27°	1806	4	32.6	− 27	2.3	8.0 A
58	−27°	1799	4	31.5	− 27	17.7	7.3 F
59	−27°	1818	4	33.7	− 27	16.7	8.4 G
60	−27°	1809	4	33.0	− 27	30.5	7.9 K
61	−28°	1652	4	33.9	− 28	9.1	7.6 A
62	−28°	1661	4	34.6	− 28	56.9	9.1 A
63	−28°	1674	4	35.7	− 28	26.3	7.5 G
64	−27°	1832	4	35.6	− 27	41.8	8.9 K
65	−27°	1831	4	35.2	− 27	58.8	8.4 A
66	−27°	1825	4	34.8	− 27	54.1	8.8 F
67	−27°	1823	4	34.8	− 27	35.8	9.3 A
68	−27°	1771	4	28.6	− 27	47.8	8.8 G
69	−28°	1599	4	28.6	− 28	5.0	9.2 F
70	−28°	1612	4	29.5	− 28	25.0	8.7 F
71	−28°	1613	4	29.6	− 28	27.7	9.0 G
72	−28°	1608	4	29.0	− 28	42.7	6.9 F
73	−28°	1593	4	27.8	− 28	44.7	8.9 G
74	−28°	1594	4	27.8	− 28	53.7	8.8 G
75	−29°	1805	4	32.1	− 29	12.2	8.0 F
76	−29°	1806	4	32.2	− 29	32.6	8.5 K
77	−30°	1916	4	32.3	− 30	12.1	8.3 F
78	−30°	1918	4	32.7	− 30	9.1	8.0 F
79	−28°	1642	4	32.6	− 28	26.3	8.6 G
80	−29°	1794	4	31.0	− 29	51.1	8.8 K
81	−29°	1776	4	29.3	− 29	41.5	9.2 K

cards made out

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

Friday, Nov. 1, 1912.

B 17401 short defs.

No	Int.	Class	Remark
82	3	F5	
83	4	F5	
Time: 10.35 84	4	G0	
~~85~~			
85	6	G0	
86	6	B8	
87	1	G5	
88	1	G0	
89	2	K0	
90	1	K0	
91	2	K0	
92	3	A2	
93	3	K0	
94	3	A5	
95			

cmh. in 132, 48

		-30	1939		.1	-30	8.3	8.7		
82	-29°	1826	4	35.2	-29	56.6	9.0	1		
83	-29°	1830	4	35.5	-29	49.1	8.5			
84	-29°	1833	4	36.0	-29	38.1	8.3			

Identified by AMC, Nov. 7, 1912

Checked by J. C. M. Nov. 25, 1912

Cards made out by M. C. W.

Cards ~~made out~~ checked by E. R. B

	85	-24°	2354	4	22.3	-24	44	7.8	197	ow B23810
	86	-24°	2465	4	33.1	-24	55	8.3	207	" "
	87	-25°	2043	4	40.9	-25	0	9.0	7	" B20533
	88	-27°	1907	4	43.2	-27	5	9.1	13	" "
	89	-27°	1888	4	41.1	-27	38	9.1	85	" "
	90	-28°	1705	4	39.1	-28	55	9.0	125	" "
	91	-28°	1707	4	39.2	-28	28	9.0	124	" "
	92	-29°	1793	4	30.3	-29	54	8.5	202	" B41080
	93	-29°	1784	4	29.1	-29	28	8.0	200	" "
	94	-30°	1855	4	25.2	-30	14	8.5	158	" "

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

Friday, Nov 1, 1912.

Time: 10. 40

B 41089 short disp

No.	Dist.	Class	Remarks
1	4	Ma	Hγ bright = 10. H δ bright = 10.
2	2	K0	
3	5	G	E.
4	2	K5	
5	9	A	
6	3	G5	
7	2	K0	
8	7	Ma	
9	2	K5	
10	3	G5	
11	2	K2	
12	3	K0	
13	2	G5	
14	4	F5	
15	8	A2	
16	6	A0	
17	1	F5	
18	1	K	
19	4	F0	
20	1	K	
21	3	F?	From Hγ to violet end superposed on 22.
22	8	K2	
23	6	F0	
24	4	A0	
25	7	A2	
26	4	K0	
27	5	F2	

1	-24°	1960	3	49.9	-24	24.0	8.6	↓ T Eridani
2	-23°	1641	3	50.6	-23	55.0	8.4	↓
3	-23°	1642	3	50.8	-23	47.8	7.9	✓
4	-24°	1996	3	52.9	-24	18.2	8.6	↓
5	-24°	2001	3	53.2	-24	9.5	7.9	↓
6	-24°	2049	3	57.0	-24	47.6	7.9	✓
7	-24°	2054	3	57.5	-24	20.2	8.6	↓
8	-24°	2062	3	58.2	-24	48.6	7.3	↓
9	-25°	1702	3	58.4	-25	12.9	8.4	✓
10	-24°	2076	3	59.6	-24	45.6	8.5	✓
11	-24°	~~2090~~ 1728	~~3~~ 1.1	~~0.5~~	-24	6.1	~~9.0~~ 8.5	↓
12	-24°	~~2102~~ 1735	4	2.2	-24	4.8	~~8.9~~ 8.4	↓
13	-24°	2112	4	2.7	-24	49.8	8.9	↓
14	-24°	2102	4	2.1	-24	4.8	8.9	↓
15	-24°	2109	4	2.5	-24	8.1	8.6	↓
16	-23°	1758	4	2.4	-23	25.4	8.7	↓
17	-23°	1771	4	3.8	-23	56.6	9.2	↓
18	-24°	2120	4	3.9	-24	18.7	9.0	✓
19	-23°	1788	4	5.6	-23	42.2	8.8	✓
20	-24°	2145	4	7.0	-24	13.8	9.0	↓
21	-24°	2152	4	7.4	-24	12.7	8.7	↓
22	-24°	2153	4	7.5	-24	5.1	6.8	↓
23	-23°	1810	4	7.7	-23	26.6	6.6	↓
24	-22°	777	4	7.6	-22	52.3	7.5	↓
25	-23°	1836	4	10.4	-23	33.0	6.7	↓
26	-23°	1841	4	11.2	-23	50.9	8.0	↓
27	-24°	2196	4	10.7	-24	19.5	8.1	↓

cards made out

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

Friday, Nov. 1, 1912.

B 4108 galact disp.

Nr.	Int.	Class	Remark.
28	3	f_5	
29	7	A5 f_8	
30	2	A	
31	2	f_8	
32	3	f_5	
33	2	f_5	
34	3	K_5	
35	7	f_8	
36	4	K_0	
37	2	K_0	
38	3	f_8	
39	6	K_0	
40	2	K_0	
41	3	K_0	
42	3	g_0	
43	4	g_5	
44	4	f_0	
45	2	K_0	
46	2	g E.	
47	3	g_5 E.	
48	6	f_8	
49	4	K_0	
50	2	K_0	
51	2	g_0	
52	10	A2	
53	2	K_0	
54	3	g_5^8	

28	−24°	2191	4	10.3	−24	21.9	8.6 ✓
29	−24°	2171	4	8.9	−24	31.4	7.6 ✓
30	−25°	1781	4	7.5	−25	6.6	8.9 ✓
31	−24°	2181	4	9.5	−24	58.6	8.7 ✓
32	−24°	2194	4	10.7	−24	50.1	8.1 ✓
33	−25°	1812	4	11.0	−25	6.3	8.7 ✓
34	−25°	1817	4	11.8	−25	7.3	8.4 ✓
35	−24°	2222	4	12.8	−24	21.5	8.0 ✓
36	−24°	2232	4	13.7	−24	27.2	7.9 ✓
37	−24°	2230	4	13.4	−24	46.5	8.4 ✓
38	−25°	1841	4	14.5	−25	10.6	9.1 ✓
39	−25°	1842	4	14.5	−25	19.3	7.1 ✓
40	−24°	2252	4	15.2	−24	56.6	8.3 ✓
41	−25°	1849	4	15.5	−25	1.3	8.4 ✓
42	−24°	2266	4	15.9	−24	50.0	9.2 ✓
43	−24°	2273	4	16.3	−24	35.3	8.5 ✓
44	−24°	2305	4	18.6	−24	1.1	8.6 ✓
45	−24°	2316	4	19.9	−24	36.1	9.1 ✓
46	−24°	2337	4	21.1	−24	41.9	9.1 ✓
47	−25°	1888	4	21.9	−25	17.8	9.1 ✓
48	−23°	1866	4	13.9	−23	42.9	8.6 ✓
49	−23°	1872	4	14.5	−23	6.2	8.5 ✓
C.D.M.	50	−22°	~~1879~~ 1879	4	14.6	−22	59.6	9.2 ✓
51	−22°	785	4	9.4	−22	52.3	8.8 ✓
52	−22°	787	4	9.6	−22	30.7	6.8 ✓
53	−22°	792	4	9.9	−22	54.9	8.8 ✓
54	−22°	795	4	10.7	−22	40.6	8.5 ✓

Cards made out

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

Friday, Nov. 1, 1912.

B41089 plus 1 diff.

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

55	-22°	800	4	11.6	-22	53.7	8.9 ✓
56	-22°	801	4	11.7	-22	43.6	8.9 ✓
57	-23°	1854	4	13.0	-23	4.1	8.6 ✓
58	-23°	1856	4	13.3	-23	16.0	6.2 ✓
59	-23°	1844	4	11.6	-23	11.6	9.2 ✓
60	-23°	1840	4	11.2	-23	15.6	9.2 ✓
61	-24°	2218	4	12.4	-24	5.8	8.6 ✓
62	-24°	2174	4	9.0	-24	1.1	9.1 ✓
	-24	2142	4	6.9	-24	58.6	8.7
63	-25	1769	4	6.5	-25	2.6	9.0 ✓
64	-22°	727	3	54.9	-22	40.9	7.0 ✓
65	-22°	736	3	56.5	-22	59.6	7.0 ✓
66	-23°	1729	3	59.4	-23	3.3	8.3 ✓
67	-23°	1739	4	0.8	-23	37.5	8.4 ✓
68	-23°	1741	4	0.9	-23	49.1	8.3 ✓
69	-24°	2090	4	0.5	-24	6.1	9.0 ✓
70	-22°	744	3	58.9	-22	30.8	8.3 ✓
71	-22°	747	3	59.8	-22	31.6	8.8 ✓
72	-22°	749	4	0.0	-22	55.5	9.0 ✓
73	-22°	756	4	0.8	-22	47.2	9.0 ✓
74	-22°	754	4	0.7	-22	22.5	6.3 ✓
75	-22°	750	4	0.0	-22	14.7	9.0 ✓
76	-22°	758	4	0.4	-22	3.9	8.5 ✓
77	-21°	785	4	0.2	-21	59.3	9.1 ✓
78	-21°	791	4	2.0	-21	31.3	8.2 ✓
79	-21°	792	4	2.5	-21	54.7	8.7 ✓
80	-22°	760	4	2.1	-22	16.9	9.0 ✓
81	-22°	763	4	2.6	-22	13.5	8.7 ✓

cards made out

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

Friday, Nov. 1, 1912.

B 41089 shot disp.

No.	Int.	Class	Remarks
82	6	A	
83	3	F0	
84	2	Gf	
85	2	Gf	
86	2	F0	Partly superposed on 87.
87	4	Gf	
88	5	F2	
89	3	Gf	
90	5	F0	
91	10	Ma	
92	5	Gf	
93	2	Gf	
94	2	Gf	
11.00 95	2	Gf	

82	-21°	807.4	5.4	-21	47.6	8.2 J
83	-21°	812.4	6.6	-21	44.4	8.5 ✓
84	-22°	776.4	7.3	-22	5.4	9.0 ✓
85	-21°	815.4	7.8	-21	27.0	9.0 ✓
86	-21°	816.4	8.1	-21	12.0	9.0 ✓
87	-21°	817.4	8.1	-21	5.6	8.5 ✓
88	-21°	826.4	10.2	-21	4.6	8.5 J
89	-21°	828.4	11.0	-21	22.6	9.0 ✓
90	-21°	829.4	11.3	-21	36.8	8.1 J
91	-21°	831.4	12.0	-21	4.2	6.2 J
92	-21°	832.4	12.2	-21	6.8	8.8 J
93	-22°	789.4	9.8	-22	1.2	9.0 J
94	-22°	782.4	8.9	-22	21.2	8.8 J
95	-22°	766.4	3.7	-22	40.5	9.0 J

Identified by AMS. Nov. 5, 1912

Checked by J. C. M. Nov. 25, 1912

cards write out by W. C. W.

Cards checked by E. R. B.

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

Friday, Oct. Nov. 1, 1912.

Time: 11.04

B20526 about disp.

Nr.	Int.	Class	Remark
1	4	Jf5	
2	1	Jf5	
3	4	Gf5	
4	10	Jf5	
5	2	Gf5	Partly superposed on 4.
6	5	Jf0	
7	7	Jf0	
8	7	Jf5	
9	10	A0	
10	1	Jf5	
11	3	A	
12	3	Jf0	
13	2	Jf2	
14	7	Jf5	
15	6	Jf0	
16	10+	A0	Burned out.
17	1	Jf5	
18	7	Gf5	
19	2	Jf0	
20	4	Jf0	
21	5	Jf0	
23	2	Jf0	
23	3	Gf5	
24	3	Jf0	
25	3	Jf2	
26	3	H	0, 6, 10.
27	3	A2	

1	-33°	1973	4	47.2	-33	28.8	7.5	
2	-34°	1909	4	46.3	-34	13.6	9.1	
3	-34°	1904	4	46.0	-34	24.0	8.4	
4	-34°	1921	4	47.3	-34	26.7	6.7	8.7 magn. -34° 1922 superposed
5	-34	1920	4	47.2	-34	25.8	8.9	
6	-35°	2000	4	50.8	-35	2.7	8.0	
7	-35°	2023	4	53.2	-35	5.4	7.5	
8	-35°	2058	4	56.3	-35	11.4	8.0	
9	-34°	1998	4	55.4	-34	21.0	7.7	
10	-34°	1996	4	55.2	-34	18.6	9.5	
11	-33°	2034	4	53.7	-33	52.6	8.4	
12	-33°	2020	4	52.5	-33	30.0	8.0	
13	-33°	2019	4	52.3	-33	39.6	8.3	
14	-35°	1940	4	44.6	-35	18.8	7.7	
15	-35°	1948	4	45.3	-35	19.2	7.5	
16	-35°	1962	4	46.9	-35	6.8	6.2	
17	-35°	1967	4	47.4	-35	19.5	9.0	
18	-35°	1989	4	49.6	-35	36.4	7.7	
19	-35°	1986	4	49.1	-35	56.0	9.0	
20	-35°	2004	4	51.0	-35	49.4	8.5	
21	-36°	1916	4	47.3	-36	2.5	7.9	
22	-36°	1922	4	48.2	-36	12.0	8.7	
23	-36°	1918	4	47.8	-36	31.4	8.3	
24	-36°	1908	4	45.7	-36	33.7	8.4	
25	-36°	1894	4	44.2	-36	14.0	9.0	
26	-36°	1884	4	42.9	-36	26.4	7.6	
27	-35°	1923	4	42.8	-35	55.0	8.7	

cards made out

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

Sunday, Nov. 1 1912.

B 20526 short disp.

Nr.	Int.	Class	Remark
28	5	K0	
29	4	K0	
30	6	K5	
31	5	K5	
32	4	K0	
33	2	K0	The n. p. of two.
34	1	K0	" " "
35	10	F5	
36	9	A3	
37	3	A3	
38	1	K	
39	5	F5	
40	8	A0	
41	3	F0	
42	3	F0	
43	1	Ma	
44	3	F8	
45	2	K0	
46	1	K0	" " "
47	3	K5	
48			
49			

June 11. 11

28	-36°	1879	4	41.9	-36	2.0	7.5 ✓
29	-36°	1862	4	39.9	-36	41.1	8.3 ✓
30	-37°	1894	4	42.2	-37	40.7	7.3 ✓
31	-37°	1903	4	44.2	-37	39.5	8.3 ✓
32	-37°	1912	4	46.0	-37	18.0	8.3 ✓
33	-36°	1899	4	44.3	-36	55.4	8.5 ✓
34	-36°	1913	4	46.8	-36	57.0	8.7 ✓
35	-38°	1762	4	46.2	-38	46.6	7.3 ✓
36	-38°	1774	4	47.4	-38	48.6	7.5 ✓
37	-39°	1660	4	46.5	-39	3.9	9.2 ✓
38	-39°	1659	4	46.4	-39	13.8	9.0 ✓
39	-39°	1656	4	45.9	-39	24.3	8.0 ✓
40	-39°	1658	4	46.3	-39	42.9	8.3 ✓
41	-40°	1615	4	46.9	-40	1.4	8.7 ✓
42	-40°	1618	4	47.4	-40	37.4	9.1 ✓
43	-40°	1611	4	46.6	-40	25.4	8.4 ✓
44	-38°	1744	4	43.4	-38	16.4	8.9 ✓
45	-35°	2041	4	54.8	-35	51.4	8.7 ✓
46	-35°	2052	4	55.9	-35	55.9	8.7 ✓
47	-35°	2024	4	53.3	-35	23.4	8.5 ✓

Identified by J. C. M. Nov. 25, 1912.
Checked by ANC Nov. 26, 1912
cards made out by M. C. W.
Cards checked by E. W. B.

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

February, Nov. 2 1912

B 12259 Struct disp (cont. from B 4533.86)

Time: 9.22

No.	Int	Class	Remark
96	2	K5	
97	2	K5	E.
98	2	ly	E.
99	1	Y	
100	1	Y2	
101	1	Y	
102	2	Y2	
103	1	ly	
104	3	A5	
105	2	Y	
106	2	ly	
107	1	ly	
108	2	K5	
109	4	A2	
110	2	K5	
111	2	Y0	
112	1	ly5	
113	2	Y0	
114	1	K0	
115	K	K0	
116	1	K0	
117	1	K5	
Time: 9.26 118	1	K0	
119			

Cont on page 212

96	-35°	1511	3	55.7	-35	12.5	9.0	✓
97	-36°	1554	3	55.4	-36	0.1	8.6	✓
98	-36°	1560	3	55.2	-36	23.5	8.5	✓
99	-35°	1516	3	56.4	-35	4.1	9.2	✓
100	-35°	1492	3	53.4	-35	3.5	8.9	✓
101	-34°	1472	3	53.2	-34	53.0	8.5	✓
102	-33°	1476	3	53.9	-33	49.8	8.4	✓
103	-33°	1484	3	54.5	-33	47.3	9.0	✓
104	-32°	1569	3	66.2	-32	56.7	8.5	✓
105	-32°	1570	3	56.3	-32	25.3	8.7	✓
106	-32°	1543	3	53.1	-32	23.7	8.8	✓
107	-31°	1622	3	58.7	-31	57.1	8.5	✓
108	-31°	1617	3	56.4	-31	48.2	8.0	✓
109	-32°	1591	3	59.7	-32	49.2	8.7	✓
110	-33°	1547	4	0.6	-33	8.5	8.1	✓
111	-32°	1608	4 2	1.9	-32	48.1	9.0	✓
112	-33°	1557	4	2.1	-33	43.0	8.7	✓
113	-33°	1570	4	3.5	-33	35.8	9.0	✓
114	-33°	1574	4	4.2	-33	43.5	8.7	✓
115	-34°	1564	4	7.2	-34	5.4	8.7	✓
116	-33°	~~1495~~ 1549	~~2~~ 4	~~56.0~~ 0.6	-33	~~24.6~~ 55.7	~~8.9~~ 8.5	✓
117	-33°	1495	3 2	56.0	-33	24.6	8.9	✓
118	-34°	1484	3	56.0	-34	7.9	8.7	✓

Identified by J. C. M. Nov. 4, 1912

Checked by A.M.C. Nov. 26, 1912

cards made out by M. C. W.

Cards checked by E.R.B.

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

Saturday Nov. 2. 1912

Time: 16. 44

B 2647 short disp (for faint stars)

No.	Int	Class	Remark
1	3	K0	
2	2	A0	
3	2	F5	
4	1	K0	
5	2	F8	
6	4	G5	
7	1	K2	
8	5	A5	
9	3	K2	
10	2	K0	
11	1	K0	
12	4	F0	
13	2	G5	
14	6	G0	
15	3	G0	
16	3	M0	
17	4	M0	
18	2	G0	
19	3	G5	
20	3	A2	
21	4	G5	
22	5	A5	
23	4	K2	
24	2	F5	Faint between K2 + F5.
25	1	K2	
26	3	F0	Another star partly superposed.
27	2	G0	

1	-39°	1517	4	26.7	-39	1.5	8.3	1 V
2	-39°	1537	4	28.8	-39	34.5	9.3	1 V
3	-39°	1551	4	30.2	-39	30.0	9.0	1 V
4	-39°	1553	4	30.5	-39	34.5	8.6	1 V
5	-39°	1556	4	31.0	-39	47.5	9.0	1 V
6	-39°	1558	4	32.0	-39	40.5	8.5	1 V
7	-40°	1453	4	29.9	-40	30.7	8.5	1 V
8	-40°	1461	4	30.9	-40	16.6	9.0	1 J
9	-40°	1464	4	31.1	-40	28.2	8.5	1 V
10	-41°	1471	4	29.7	-41	9.9	8.7	1 J
11	-41°	1476	4	30.5	-41	4.9	9.0	1 V
12	-40°	1425	4	25.8	-40	39.7	8.7	1 V
13	-40°	1428	4	26.3	-40	29.2	8.9	1 J
14	-40°	1431	4	26.4	-40	39.7	7.7	1 V
15	-40°	1433	4	26.8	-40	7.1	8.7	1 J
16	-40°	1411	4	24.2	-40	12.1	8.3	1 V
17	-40°	1437	4	28.4	-40	28.2	8.0	1 J
18	-40°	1438	4	28.6	-40	28.2	9.5	1 J
19	-41°	1425	4	24.0	-41	32.4	9.0	1 V
20	-41°	1430	4	24.4	-41	25.7	9.4	1 J
21	-41°	1435	4	25.0	-41	14.7	9.0	1 J
22	-41°	1451	4	27.1	-41	13.4	9.0	1 J
23	-41°	1445	4	26.6	-41	44.6	8.1	1 J
24	-42°	1528	4	26.0	-42	8.3	9.4	1 V H 1529 260 -42 10.7 9.2 superposed.
25	-42°	1516	4	25.0	-42	2.7	9.2	1 J
26	-42°	1525	4	25.9	-42	24.4	9.3	1 V
27	-42°	1536	4	27.3	-42	43.4	9.0	1 J

Condo made out

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

Saturday, Nov. 2, 1912.

B 20647 about disp

No.	Int.	Class	Remark
28	2	Ip	
29	1	Fo	
30	4	H5	Perhaps Nea.
31	3	Ge	
32	4	Gs	
33	2	Fo	
34	2	A2	
35	1	Ge	
36	1	K	
37	2	Ho	
38	1	Gs	
39	1	F5	
40	1	F0	
41	2	Ge	
42	1	A5	
43	5	Gs	
44	3	F8	
45	2	F5	
46	2	F5	
47	3	F8	
48	4	A3	
49	3	A2	
50	7	Fo	Another Tau superposed.
51	6	F5	
52	3	H0	
53	5	A3	
54	2	F5	

28	-42°	1545	4	28.5	-42	46.3	9.1	∧ ∫
29	-43°	1454	4	26.5	-43	6.1	9.1	∧ ∫
30	-43°	1466	4	28.7	-43	42.0	8.0	∧ ∫
31	-44°	1625	4	31.4	-44	15.2	9.3	∧ ∫
32	-44°	1605	4	28.4	-44	13.3	8.8	∧ ✓
33	-43°	1482	4	31.0	-43	52.0	9.4	∧ ∫
34	-43°	1481	4	30.9	-43	18.3	9.7	∧ ∫
35	-43°	1474	4	30.2	-43	4.0	9.4	∧ ∫
36	-42°	1560	4	30.9	-42	36.4	9.4	∧ ∫
37	-42°	1564	4	31.6	-42	15.2	9.2	∧ ∫
38	-41°	1484	4	31.2	-41	59.4	9.0	∧ ∫
39	-41°	1496	4	32.8	-41	30.7	9.2	∧ ✓
40	-42°	1483	4	33.3	-40	47.1	9.1	∧ ∫
41	-40°	1488 1615	4	33.7	-40	55.1	9.6	∧ ∫
42	-40°	1490 1618	4	33.7	-40	55.3	9.6	∧ ∫
43	-40°	1498 1611	4	34.2	-40	50.5	9.7	∧ ∫
44	-40°	1501	4	34.6	-40	50.4	9.4	∧ ∫
45	-40°	1503	4	34.7	-40	48.1	9.5	∧ ✓
46	-40°	1502	4	34.6	-40	37.6	9.4	∧ ∫
47	-40°	1499	4	34.8	-40	27.6	8.7	∧ ∫
48	-40°	1504	4	34.9	-40	11.6	9.0	∧ ✓
49	-40°	1518	4	36.5	-40	39.6	8.9	∧ ∫
50	-40°	1521	4	36.6	-40	6.0	8.3	-40° 1520 9.0 superposed.
51	-39°	1590	4	36.8	-39	49.5	7.5	∧ ✓
52	-39°	1601	4	38.4	-39	5.4	8.0	∧ ✓
53	-38°	1703	4	37.9	-38	47.2	8.4	∧ ∫
54	-38°	1781	4	42.7	-38	42.0	9.7	∧ ✓

Carelessly made out

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

Saturday, Nov. 2, 1912.

B 20647 slit diff.

Nr.	Int.	Class	Remark
55	3	A3	
56	4	F5	
57	2	Ma	
58	1	K0	
59	2	G	
60	3	K0	
61	2	F5	
62	1	K0	
63	4	F2	
64	3	K0	
65	2	K0	
66	1	G5	
67	2	A3	
68	2	K0	
69	3	F0	
70	2	F5	
71	2	K2	The southern of Two.
72	2	G0	
73	2	F5	Time: 11.05
74	3	F5	image nicely sharper than on B 20690
75	3	F0	
76	1	K5	
77	2	F8	
78	6	G2	
79	3	A0	

Comb. in 131, 12

55	-39°	1660	4	-46.5	-39	3.9	9.2	1 1
56	-40°	1615	4	46.9	-40	1.4	8.7	1 1
57	-40°	1611	4	46.6	-40	25.4	8.4	1 ✓
58	-42°	1672	4	50.3	-42	19.8	9.2	1 ✓
59	-42°	1676	4	50.4	-42	42.0	9.3	1 ✓
60	-43°	1596	4	50.0	-43	13.1	9.0	1 ✓
61	-43°	1570	4	45.5	-43	34.2	9.3	1 ✓
62	-43°	1561	4	44.1	-43	14.9	9.1	1 1
63	-42°	1629	4	44.0	-42	40.5	9.3	1 ✓
64	-42°	1628	4	44.0	-42	6.7	9.0	1 ✓
65	-41°	1589	4	45.6	-41	41.5	9.1	1 ✓
66	-41°	1583	4	45.0	-41	41.5	9.0	1 ✓
67	-43°	1538	4	40.9	-43	37.7	9.3	1
68	-42°	1643	4	45.7	-42	28.4	9.1	1 ✓
69	-42°	1592	4	37.4	-42	36.0	9.2	1 ✓
70	-41°	1548	4	39.6	-41	44.7	9.1	1 ✓
71	-41°	1535	4	38.1	-41	17.3	9.1	1 ✓
72	-40°	1570	4	42.1	-40	8.5	8.5	1 ✓
73	-40°	1584	4	43.9	-40	12.4	8.9	1 ✓
74	-41°	1567	4	42.4	-41	18.9	8.3	1 ✓
75	-42°	1595	4	37.6	-42	22.3	9.2	1 ✓
76	-44°	1677	4	39.2	-44	27.4	9.5	1 ✓
77	-43°	1589	4	48.2	-43	29.6	9.4	1 ✓
78	-41°	1477	4	30.6	-41	29.0	8.3	1 ✓
79	-42°	1604	4	39.6	-42	54.7	9.4	1

Identified by J. C. M. Jan. 13, 1913.

Checked Jan. 14, 1913 DEW

Cards checked by EPB. cards made out by Mrs C. P.

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

Friday, Nov. 8 1912.

Time: 10.48

I 38108 (for faint stars)

No.	Int.	Class	Remark
1	2	N0	E.
2	2	A	E.
3	1	N0	Near a bright star.
4	2	A5	E.
5	2	F0	
6	2	F2	
7	2	A	E.
8	2	F5	
9	3	A	E.
10	1	A	
11	1	Ma	The preceding of two.
12	2	G	
13	2	A2	
14	2	A0	
15	3	N8	
16	2	G5	
17	3	K0	
18	2.3	G5	
19	3	F8	
20	3	F5	
21	3	F6	
22	3	A5	
23	1	A2	
24	2	K2	
25	2	N2	
26	2	N0	
27	1	A	

1	+58°	83	0	29.4	+58	22.4	8.0	J
2	+58°	93	0	32.8	+58	3.7	8.8	J
3	+57°	130	0	34.2	+57	46.5	7.9	J
4	+58°	96	0	35.1	+58	14.7	8.5	J
5	+59°	111	0	36.5	+58.9	30.4	8.5	J
6	+59°	~~207~~ 119	0	~~39.5~~ 37.4	+59	31.8 54.0	8.8	J
7	+58°	102	0	39.2	+58	30.6	9.0	J
8	+58°	110	0	40.3	+58	49.1	9.0	J
9	+57°	156	0	41.5	+57	58.2	8.8	J
10	+58°	124	0	43.5	+58	46.9	9.0	J
11	+58°	127	0	43.8	+58	56.2	8.8	J
12	+59°	141	0	46.2	+59	17.5	8.6	J
13	+60°	128	0	45.8	+60	26.5	9.1	J
14	+60°	126	0	44.5	+60	50.6	8.8	J
15	+61°	185	0	48.6	+61	46.2	8.5	J
16	+61°	187	0	49.5	+61	8.7	8.9	J
17	+61°	188	0	49.9	+61	20.1	9.3	J
18	+61°	189	0	50.4	+61	8.6	8.3	J
19	+61°	191	0	50.9	+61	28.5	8.8	J
20	+60°	143	0	52.6	+60	15.7	8.8	J
21	+59°	166	0	52.3	+59	34.6	8.0	J
22	+59°	163	0	51.8	+59	39.6	8.7	J
23	+60°	141	0	51.6	+60	1.4	9.3	J
24	+59°	169	0	54.0	+59	20.7	9.0	J
25	+58°	155	0	53.8	+58	30.5	7.7	J
26	+58°	158	0	54.5	+58	19.4	8.0	J
27	+58°	165	0	56.3	+58	32.5	8.8	J

cards made out

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

Friday, Nov. 8. 1912.

I 38108

No.	Int.	Class	Remark
28	2	Bg	
29	4	A0	
30	2	G0	
31	2	G5	
32	2	G0	
33	2	B0	
34	3	Bg	
35	1	M	
36	2	Ma	
37	4	Bg	
38	1	A	
39	3	K0	
40	4	G0	
41	3	Bg	
42	2	G5	
43	3	A2	E.
44	2	A	E.
45	3	Bg	
46	4	F0	
47	2	F0	
48	3	K0	
49	3	A	
50	2	K0	
51	2	F3?	Yet almost circle. Hy. H & narrow. O thin spec almost cont.
52	2	A0	
53	3	A3	
54	2	F2	

28	+59°	180	0	57.2	+59	31.7	9.0	v
29	+60°	162	0	56.9	+60	0.2	8.3	v
30	+60°	146	0	53.7	+60	48.4	8.5	v
31	+60°	153	0	54.2	+60	59.7	8.3	v
32	+61°	198	0	54.6	+61	9.9	9.0	v
33	+61°	200	0	53.1	+61	2.7	8.5	v
34	+61°	202	0	55.3	+61	38.3	7.6	v
35	+61°	201	0	55.2	+61	57.3	9.0	v
36	+61°	211	0	58.8	+61	52.4	8.3	v
37	+61°	212	0	58.8	+61	33.4	8.8	v
38	+61°	213	0	59.2	+61	29.0	9.1	v
39	+61°	217	0 1	1.0	+61	56.5	8.3	v
40	+60°	170	0 1	0.4	+60	46.2	7.8	v
41	+61°	218	1	1.1	+61	2.4	8.3	v
42	+59°	188	0	59.3	+59	21.7	8.0	v
43	+58°	181	1	1.5	+58	11.4	8.2	v
44	+57°	224	1	5.3	+57	31.4	8.2	v
45	+58°	203	1	6.6	+58	31.5	7.9	v
46	+58°	201	1	5.9	+58	59.0	8.0	v
47	+59°	211	1	5.6	+59	14.4	8.7	v
48	+59°	220	1	6.4	+59	45.0	8.0	v
49	+60°	194	1	6.0	+60	5.6	8.6	v
50	+59°	199	1	2.6	+59	44.0	7.9	v
51	+61°	223	1	3.4	+61	7.4	8.5	v
52	+61°	224	1	3.4	+61	0.2	8.9	v
53	+62°	221	1	3.8	+62	13.7	8.8	v
54	+62°	232	1	3.9	+62	15.7	9.0	v

cards made out

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

Friday, Nov. 8, 1912.

I 38108

No.	Int.	Class	Remark
55	1	H0	
56	1	F2	
57	2	A0	
58	4	A0	
59	3	H0	
60	1	H	
61	1	H	
62	2	H5	
63	2	B	Almost vert.
64	3	F0	
65	2	F5	
66	1	A0	
67	3	A3	
68	1	A0	
69	2	A	E.
70	2	H0	E.
71	4	A	E.
72	3	A	E.
73	2	K	E.
74	2	A5	
75	2	F2	
76	3	A2	
77	3	A	E.
78	3	F0	
79	3	F1	The preceding of two.
80	2	A0	
81	2	A0	

55	+61°	227	i	4.4	+61	53.7	8.5	✓
56	+61°	228	i	4.8	+61	51.8	8.8	✓
57	+62°	229	i	6.9	+62	1.3	8.8	✓
58	+62°	235	i	8.9	+62	46.5	8.2	✓
59	+62°	236	i	10.1	+62	5.9	8.2	✓
60	+61°	237	i	7.9	+61	32.4	9.0	✓
61	+60°	198	i	7.8	+60	53.4	8.6	✓
62	+60°	201	i	8.8	+60	57.5	8.0	✓
63	+61°	240	i	9.1	+61	8.3	9.0	✓
64	+60°	205	i	10.0	+60	55.7	8.6	✓
65	+60°	206	i	10.4	+60	48.8	8.8	✓
66	+60°	207	i	11.1	+60	29.1	9.0	✓
67	+59°	232	i	10.7	+59	28.3	8.4	✓
68	+59°	223	i	8.0	+59	30.5	8.9	✓
69	+58°	217	i	10.2	+58	16.8	8.4	✓
70	+58°	230	i	15.1	+58	11.1	8.0	✓
71	+57°	269	i	13.1	+57	31.7	8.2	✓
72	+57°	294	i	19.2	+57	4.0	8.0	✓
73	+58°	249	i	20.6	+58	0.7	7.6	✓
74	+58°	258	i	22.9	+58	24.2	8.0	✓
75	+57°	319	i	23.5	+57	52.0	8.4	✓
76	+58°	270	i	23.4	+58	33.5	7.3	✓
77	+59°	290	i	23.0	+59	7.3	7.0	✓
78	+59°	276	i	24.2	+59	53.0	8.2	✓
79	+60°	269	i	25.4	+60	24	8.7	✓
80	+60°	281	i	26.9	+60	31.7	8.5	✓
81	+60°	280 2	i	26.8	+60	5.1	8.9	✓
						cards	made	out

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

Friday, Nov. 8, 1912.

I 38108

No.	Int.	Class	Remark
82	1	H	
83	2	H2	
84	2	A0	E.
85	2	H2	
86	3	A2	
87	3	H2	
88	1	F8	
89	2	A2	
90	2	A0	
91	2	K0	
92	1	F8	
93	2	K3g	
94	1	K0	
95	3	A0	
96	2	F5	
97	3	K3g	
98	2	F2	
99	2	K3?	Almost cont.
100	2	F8	
101	2	A0	
102	3	A0	
103	3	A	Partly superposed on 104.
104	2	F5	
105	1	A5	
106	2	K0	
107	1	K0	
108	1	K0	

82	+59°	287	i	27.6	+59	57.4	8.5 ✓
83	+60°	292	i	28.9	+60	5.0	7.7 J
84	+60°	305	i	31.9	+60	21.1	9.0 J
85	+59°	285	i	26.5	+59	28.4	8.4 ✓
86	+60°	297	i	29.4	+60	53.3	8.8 ✓
87	+61°	303	i	28.1	+61	6.2	8.0 J
88	+61°	301	i	27.1	+61	4.6	8.2 J
89	+61°	300	i	27.0	+61	14.9	8.7 ✓
90	+61°	286	i	23.0	+61	8.1	8.7 J
91	+60°	256	i	22.2	+60	37.4	7.7 J
92	+60°	257	i	22.3	+60	46.3	7.9 J
93	+60°	240	i	18.5	+60	34.0	9.0 J
94	+61°	267	i	17.3	+61	6.1	9.1 J
95	+60°	234	i	15.8	+60	57.0	8.8 ✓
96	+61°	263	i	16.7	+61	20.9	9.0 I
97	+62°	253	i	18.1	+62	0.1	7.4 J
98	+61°	266	i	17.1	+61	58.0	8.3 ✓
99	+62°	254	i	18.4	+62	31.0	8.0 ✓
100	+62°	248	i	15.9	+62	50.4	8.9 J
101	+62°	243	i	13.4	+62	20.6	8.5 J
102	+60°	221	i	13.9	+60	57.7	8.5 ✓
103	+60°	213	i	12.3	+60	30.1	8.3 J
104	+60°	214	i	12.5	+60	45.1	8.3 J
105	+59°	228	i	9.8	+59	46.3	9.0 J
106	+61°	250	i	11.2	+61	5.8	9.0 ✓
107	+61°	247	i	10.6	+61	34.9	9.0 J
108	+62°	241	i	12.6	+62	2.0	8.5 J

cards made out

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

Friday, Nov. 8, 1912.

I 38108

No.	Int.	Class	Remark
109	3	Fo	
110	1	A	
111	2	A	
112	3	F5	
113	3	A0	
114	2	A5	
115	2	F8	
116	3	A0	
117	2	Fo	
118	2	F0	
119	4	A3	
120	2	A	Partly superposed on a brighter star.
121	1	A	
122	2	A0	
123	1	Fo	
124	2	A2	
125	1	Fo	
126	i	A3	
127	2	A0	
128	2	B	Almost end.
129	2	F2	
130	2	Fo	E.
131	1	Fo	E.
132	2	F	E.
133	2	Fo	
134	2	Fo	
135	1	Ma	

109	+62°	218	i	2.4	+62	34.9	8.5	✓
110	+62°	216	j	2.3	+62	46.2	9.5	✓
111	+62°	219	i	2.6	+62	58.6	8.9	✓
112	+63°	153	i	2.9	+63	5.8	9.1	✓
113	+63°	164	i	6.3	+63	33.4	8.8	✓
114	+63°	158	i	3.9	+63	53.4	9.0	✓
115	+63°	161	i	4.8	+63	51.8	8.8	✓
116	+64°	130	i	4.2	+64	50.9	8.7	✓
117	+65°	183	i	4.9	+65	57.7	9.2	✓ +63° 133 Superposed at southern end. magn. 9.9
118	+63°	168	i	9.2	+63	27.5	8.6	✓
119	+63°	186	i	17.4	+63	57.4	7.7	✓
120	+65°	163	i	17.4	+65	1.0	8.5	✓
121	+63°	192	i	20.5	+63	43.8	8.7	✓
122	+63°	196	i	21.8	+63	36.6	8.5	✓
123	+63°	199	i	23.4	+63	57.8	8.5	✓
124	+63°	210	i	26.7	+63	46.6	8.4	✓ +63° 209 Superposed. magn. 8.5
125	+62°	284	i	28.7	+62	58.6	8.3	✓
126	+63°	214	i	29.2	+63	21.5	8.5	✓
127	+63°	217	i	30.4	+63	25.0	8.4	✓
128	+63°	218	i	30.8	+63	26.0	8.0	✓
129	+62°	295	i	32.4	+62	40.8	8.6	✓
130	+63°	229	i	33.6	+63	7.5	8.2	✓
131	+63°	232	i	35.2	+63	49.9	7.8	✓
132	+64°	231	i	35.6	+64	0.7	8.5	✓
133	+64°	212	i	29.6	+64	24.7	8.3	✓
134	+61°	113	O	26.0	+61	48.6	8.6	✓
135	+61°	121	O	27.9	+61	53.1	8.7	✓

cards made out

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

Friday, Nov. 8, 1912.

E38108

No	Int.	Class	Remark
136	1	A	
137	1	F5	
138	1	G5	
139	1	F	
140	2	A2	
141	1	F5	
142	1	A	
143	2	B3?	Almost cont.
144	3	G0	
145	2	G5	
146	1	G5	
147	3	K2	
148	2	G5	
149	3	G5	
150	3	F8	
151	1	F5	
152	2	A5	
153	1	F2	
154	1	F0	
155	1	G	
156	2	G	E.
157	2	A	E.
158	3	A	E.
159	2	B3?	Almost out.
160	2	F8	
161	2	A2	
162	2	F2	

136	+62°	123	0	29.8	+62	3.5	9.1
137	+62°	125	0	30.6	+62	2.8	8.7
138	+62°	122	0	29.6	+62	32.8	8.8
139	+62°	127	0	31.0	+62	15.6	8.8
140	+61°	159	0	35.9	+61	22.5	8.8
141	+60°	106	0	39.3	+60	32.4	8.8
142	+60°	117	0	42.9	+60	19.6	9.0
143	+62°	178	0	50.8	+62	49.8	9.0
144	+62°	191	0	54.6	+62	54.5	7.8
145	+62°	194	0	56.2	+62	56.9	8.0
146	+63°	134	0	56.3	+63	26.0	8.3
147	+63°	141	0	57.9	+63	0.3	8.3
148	+62°	201	0	58.3	+62	43.5	8.1
149	+62°	203	0	58.4	+62	54.7	8.0
150	+62°	209	0	59.5	+62	55.0	8.5
151	+63°	142	0	58.6	+63	37.4	8.5
152	+64°	125	0.1	0.2	+64	14.7	8.8
153	+65°	135	1	1.0	+65	0.0	9.0
154	+65°	140	1	2.4	+65	6.0	8.2
155	+65°	136	1	1.0	+65	58.0	8.5
156	+64°	36	0	15.3	+64	32.9	7.5
157	+65°	54	0	18.3	+65	57.5	8.6
158	+67°	71	0	40.3	+67	40.5	8.0
159	+64°	83	0	40.3	+64	46.7	8.8
160	+65°	97	0	40.4	+65	16.2	8.9
161	+63°	94	0	39.8	+63	55.7	9.0
162	+63°	95	0	40.0	+63	54.0	9.0

cards made out

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

Friday, Nov. 8, 1912.

I 38108

No.	Int.	Class	Remark
163	2	B?	Almost cont.
164	1	A	
165	1	F5	
166	1	A5?	
167	2	A2	
168	2	A3	
169	1	F0	
170	1	F0	
171	1	A	
172	2	A0	Another star faintly superposed.
173	2	A0	
174	1	F	
175	2	F0	
176	1	F5	E.
Time: 11.36 177	1	F	E.
178			
179			
Feb. 15, 1916 178	2	A0	
179	1	F8	
180	1	G5	
181	4	B2	
182	6	A0	
183	5	A0	

163	+63°	97	0	41.2	+63	50.4	8.3	
164	+64°	89	0	44.9	+64	5.6	9.4	J
165	+65°	108	0	46.4	+65	15.2	9.0	J
166	+64°	100	0	47.4	+64	56.7	9.1	J
167	+65°	112	0	47.5	+65	25.8	8.8	J
168	+64°	115	0	53.6	+64	19.7	8.8	J
169	+64°	122	0	57.6	+64	47.7	8.9	J
170	+65°	134	1	0.9	+65	21.5	9.0	J
171	+63°	130	0	54.6	+63	31.0	9.2	J
172	+62°	214	1	1.0	+62	48.0	9.0	J
173	+62°	228.5	1	4.8	+62	49.1 / 51.6	9.3	J
174	+63°	162	1	5.4	+63	18.2	9.3	J
175	+66°	114	1	16.8	+66	18.7	8.0	J
176	+67°	118	1	13.6	+67	21.1	8.7	J
177	+66°	94	0	58.8	+66	42.7	8.4	J

Identified by ANR. Nov. 8. 1912

Checked by J. B. W. Nov. 22, 1912

cards made out by M. C. W.

Cards checked by S. R. B.

J	178	+59°	156	0	48.2	+59	19	9.2	75 m D38060
J	179	+60	70	0	27.0	+60	58	9.2	114 " "
J	180	+61°	125	0	27.1	+61	4	8.3	
J	181	+58°	119	0	42.0	+58	52.80		65 m B3083
J	182	+59	147	0	48.1	+59	15	8.1	49 " "
J	183	+60	135	0	47.5	+60	28	7.9	52 " "

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

Saturday, Nov. 9, 1912

Time: 10.23

I 38 103

No.	Int.	Class	Remark
1	1	I_5	
2	2	K_0	
3	2	M_6	
4	1	M	
5	3	M_2	
6	2	I_{p0}	
7	2	I_{p0}	
8	6	F_5	
9	2	I_{p5}	
10	4	I_{p0}	Another star partly superposed on p_2. side.
11	1	M_0	
12	3	F_2	
13	3	F_0	
14	3	M_0	
15	2	F_0	
16	10	K_6	
17	3	A_2	
18	8	F_2	
19	2	K_2	
20	1	I_p	E.
21	1	I_p	E.
22	1	K_0	
23	1	I_{p0}	
24	2	F_5	
25	1	M_0	
26	2	I_{p5}	
27	1	I_{p5}	

1	+13°	156	0	56.~~4~~ 56.2	+13	~~12.7~~ 9.5	~~7.0~~ 8.7	I
3	+13°	~~57.2~~ 162	0	57.8	+13	20.0	8.6	I
3	+13°	167	0	57.8	+13	37.6	8.8	I
4	+13°	168	0	58.1	+13	12.4	9.0	I
5	+12°	141	2	1.6	+12	34.4	8.5	I
6	+11°	151	1	1.6	+11	54.0	8.3	I
7	+11°	157	1	4.0	+11	34.6	8.6	I
8	+11°	168	1	4.7	+11	31.1	6.8	I
9	+11°	159	1	5.1	+11	12.8	9.0	I
10	+10°	144	1	5.5	+10	55.1	8.3	I
11	+11°	155	1	2.4	+11	54.1	8.9	I
12	+13°	176	1	4.1	+13	5.8	8.5	I
13	+13°	~~183~~ 176	1	~~6.8~~ 4.1	+13	~~4.6~~ 5.8	8.5	I
14	+13°	175	1	3.6	+13	55.9	8.2	I
15	+13°	178	1	3.1	+13	38.4	9.0	I
16	+15°	177	1	6.4	+15	22.5	6.5	I
17	+15°	181	1	8.2	+15	25.8	7.8	I
18	+15°	182	1	8.6	+15	24.7	8.0	I
19	+16°	130	1	8.5	+16	4.2	8.1	I
20	+15°	185	1	9.8	+15	35.5	8.8	I
21	+14°	200	1	11.2	+14	45.2	9.0	I
22	+14°	202	1	11.7	+14	2.2	8.5	I
23	+13°	185	1	7.2	+13	53.0	9.0	I
24	+13°	189	1	7.4	+13	54.1	8.8	I
25	+12°	155	1	8.5	+12	58.1	8.7	I
26	+12°	159	1	10.1	+12	48.6	8.5	I
27	+13°	195	1	10.5	+13	37.4	8.9	I

cards made out

magn. 9.0
+10° 143 superposed

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

Saturday, Nov. 9, 1912.

I 38103

Nr.	Irut.	Class	Remark
28	1	Gpo	
29	1	Gp5	
30	2	Gpo	E.
31	1	G	E.
32	2	Gp5	E.
33	2	Gp5	E.
34	2	Gpo	E.
35	2	G	E. The nucleus of two.
36	3	F2	
37	1	F	
38	2	F0	
39	1	G	
40	2	Gp5	
41	2	F2	
42	3	F2	E.
43	1	F5	E.
44	1	G	E.
45	1	F	E.
46	2	G	E.
47	2	G2	
Time: 10.34	48	1	F2
	49		

June 16, 1915 49 6 K5

emh. in 129, 166.

28	+13°	196	1	10.5	+13	23.8	9.0	V
29	+13°	198	1	11.5	+13	8.3	8.7	J
30	+13°	199	1	12.6	+13	1.6	8.6	J
31	+11°	176	1	16.8	+11	38.0	9.0	V
32	+11°	175	1	16.2	+11	11.3	8.5	J
33	+11 +10°	171 +68	1	18.7	+10	9.3 46.6	8.5 6.5	J
34	+10°	166	1	18.2	+10	42.1	8.3	J
35	+10°	148	1	6.2	+10	18.4	8.8	J
36	+10°	123	0	57.6	+10	32.8	8.0	J
37	+10°	122	0	57.6	+10	54.8	8.2	J
38	+10°	128	1	3.4	+10	1.0	8.5	J
39	+10°	172	1	3.5	+10	47.9	9.0	J
40	+10°	175	1	5.1	+10	59.5	8.5	J
41	+17°	163	1	2.7	+17	33.8	9.0	J
42	+18°	156	1	2.9	+18	3.7	8.5	J
43	+16°	111	0	58.4	+16	57.3	8.8	J
44	+16°	113	0	59.2	+16	56.2	8.8	J
45	+17°	152	0	58.0	+17	7.9	8.8	J
46	+17°	176	1	8.8	+17	45.6	8.5	J
47	+17°	177	1	8.9	+17	7.0	8.8	J
48	+16°	129	1	8.4	+16	51.5	8.3	J

Identified by J. C. M. Nov. 11, 1912
Checked by A.M.C. Nov. 12, 1912
cards made out by M. C. W.
Cards checked by E.R.B.

✓	49	+14°	175	1	2.5	+14	5.4	6.4	Cards made out by C.J.C.

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

Saturday, Nov 9, 1912.

Time: 10.35

I 38104

No.	Int.	Class	Remark
1	2	Ko	
2	3	F8	
3	3	Ao	
4	3	F5	E.
5	2	G0	E.
6	2	K0	E.
7	2	K0	E.
8	2	G5	
9	1	F5	
10	2	G0	
11	3	A0	E.
12	4	F0	E.
13	2	A3	
14	2	A2	
15	3	A0	
16	1	K	
17	3	A5	E.
18	4	A2	
19	1	G	
20	2	G5	
21	1	K0	
22	2	A2	
Time: 10.41 23	1	K0	

1	+3	523	3	37.7	+3	58.6	8.5
2	+4°	582	3	37.4	+4	37.5	8.7
3	+4	588	3	39.2	+4	26.2	8.7
4	+1°	665	3	41.1	+1	58.1	8.3
5	+2°	612	3	41.9	+2	3.1	8.4
6	+3°	545	3	51.1	+3	6.1	8.5
7	+3°	546	3	51.9	+3	21.9	8.3
8	+5°	562	3	48.8	+5	25.7	8.0
9	+5°	570	3	50.4	+5	9.5	8.7
10	+7°	583	3	53.2	+7	26.2	9.0
11	+7°	586	3	54.0	+7	11.4	8.5
12	+7°	589	3	55.2	+7	43.6	7.8
13	+7°	559	3	45.2	+7	51.3	9.0
14	+8°	593	3	46.8	+8	14.4	9.1
15	+7°	577	3	50.7	+7	56.9	8.8
16	+8°	605	3	50.9	+8	36.9	8.8
17	+7°	521	3	26.0	+7	47.6	8.7
18	+8°	532	3	26.9	+8	40.4	7.8
19	+9°	467	3	31.2	+9	10.3	8.8
20	+9°	470	3	32.3	+9	12.3	8.7
21	+9°	463	3	30.1	+9	27.5	7.8
22	+6°	589	3	41.5	+6	56.2	8.6
23	+6°	592	3	43.2	+6	43.4	8.7

Identified by J. C. M. Nov. 11, 1912
Checked by A.M.C. Nov. 12, 1912
cards made out by M. C. W.
Cards checked by E.S.W.

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

Saturday, Nov 9, 1912

Time: 11. 14

I 38111

No.	Int.	Class	Remark
1	2	B9	E.
2	3	A0	E.
3	2	B9	
4	2	Ma	
5	3	F0	
6	2	A0	
7	2	F5	
8	5	A0	
9	2	A2	
10	4	F8	
11	2	F5	
12	7	B0	Hβ br. = 3. Dark lines very faint.
13	1	K0	
14	3	A3	
15	4	F5	
16	3	F5	
17	2	A0	
18	1	G	E.
19	2	A5	E.
20	2	F5	E.
21	1	F2	
22	1	K0	
23	3	G?	Too much superposed on 24. Get short disp.
24	5	B9	
25	2	A0	
26	2	K0	
27	3	G0	Partly superposed on 28.

1	+27°	562	3	37.6	+27	18.4	9.0 J
2	+28°	582	3	38.1	+28	13.0	8.5 J
3	+28°	586	3	39.1	+28	8.0	8.9 J
4	+28	587	3	39.4	+28	11.5	8.5 J
5	+27	569	3	40.1	+27	37.0	8.8 J
6	+28°	592	3	40.2	+28	0.9	8.8 V
7	+28°	593	3	40.5	+28	11.9	8.7 J
8	+29°	632	3	41.2	+29	11.3	7.8 V
9	+29°	633	3	41.6	+29	17.8	8.5 J
10	+29°	635	3	42.0	+29	13.7	8.1 J
11	+29°	636	3	43.2	+29	9.9	8.2 J
12	+30°	591	3	46.3	+30	37.7	var J
13	+27°	585	3	43.6	+27	41.0	8.6 J
14	+27°	587	3	44.5	+27	34.9	8.5 J
15	+27°	589	3	44.8	+27	42.1	7.8 J
16	+27°	597	3	46.1	+27	46.3	8.0 J
17	+27°	600	3	46.9	+27	44.2	8.5 J
18	+26°	642	3	47.0	+26	11.2	9.1
19	+26°	645	3	47.7	+26	19.0	8.9 J
20	+26°	648	3	48.2	+26	4.9	8.3 J
21	+26°	654	3	49.5	+26	19.6	9.0 J
22	+27°	609	3	49.4	+27	31.5	9.2 V
23	+29°	660	3	51.2	+29	10.2	8.7 J
24	+29°	659	3	51.1	+29	18.2	8.0 J
25	+30°	595	3	49.5	+30	57.4	9.0 J
26	+30°	599	3	50.7	+30	56.2	8.6 V
27	+30°	609	3	53.3	+30	56.9	8.2 J

cards made out

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

Saturday, Mar 9, 1918

I 38111

No.	Dist.	Class	Remarks
28	3	A0	
29	2	A	E.
30	1	A	E.
31	1	A	
32	8	K0	
33	3	K0	
34	2	G0	
35	4	A2	
36	2	A0	
37	3	A3	
38	1	K0	near a bright star.
39	1	G5	
40	1	A	
41	1	G	
42	1	Ma	
43	2	K0	
44	3	A2	
45	1	G5	E.
46	1	F8	E
47	2	G0	
48	4	G0	
49	4	G0	
50	3	K0	
51	3	K0	
52	2	A0	
53	3	G5	
54	7	K0	

28	+31°	692	3	58.4	+31	4.8	8.1
29	+31°	686	3	52.2	+31	51.3	8.5
30	+31°	687	3	52.6	+31	48.1	8.8
31	+30°	614	3	55.6	+30	30.5	8.9
32	+29°	672	3	57.8	+29	52.5	7.5
33	+28°	614	3	54.8	+28	47.8	8.1
34	+28°	610	3	54.1	+28	3.0	8.3
35	+28°	613	3	54.7	+28	14.9	7.8
36	+27°	630	3	56.7	+27	59.6	8.8
37	+27°	629	3	56.6	+27	29.7	7.8
38	+27°	634	3	57.8	+27	7.6	8.5
39	+27°	635	3	58.3	+27	6.3	8.7
40	+26°	675	3	57.2	+26	8.5	8.4
41	+26°	669	3	55.1	+26	4.8	8.8
42	+25°	670	3	56.0	+25	47.6	8.3
43	+27°	616	3	52.6	+27	12.2	8.5
44	+27°	624	3	55.1	+27	17.4	8.3
45	+25°	681	4	3.0	+25	36.3	8.4
46	+25°	682	4	3.7	+25	39.4	8.5
47	+26°	684	4	0.3	+26	43.3	8.5
48	+28°	627	4	0.2	+28	15.6	8.8
49	+28°	624	3	57.9	+28	47.7	8.5
50	+30°	623	4	0.2	+30	15.4 24.0	8.8
51	+30°	621	4	0.0	+30	30.8	8.3
52	+31°	705	3	58.3	+31	24.6	8.8
53	+29°	676	4	2.6	+29	27.2	8.0
54	+29°	678	4	6.1	+29	32.1	7.0

cards made out

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

Saturday, Nov. 9, 1912.
I 38111

No.	Int.	Class	Remark
55	6	fg	
56	2	Ao	
57	4	Fo	
58	6	fg	
59	2	fg	
60	2	fg	
61	3	A	E.
62	3	fg	
63	3	Fg	
64	1	F	
Time: 11.38 65	2	fg	
66	4	B8	
67	2	A5	
68	3	F5	

55	+29°	682	4	7.0	+29	40.0	7.8	v
56	+30°	636	4	5.9	+30	28.4	8.7	)
57	+27°	649	4	5.6	+27	35.0	8.1	)
58	+25°	685	4	5.7	+25	53.2	7.6	)
59	+26°	689	4	2.8	+26	33.0	8.9	v
60	+26°	687	4	2.4	+26	7.5	8.6	)
61	+24°	540	3	35.4	+24	6.8	8.0	)
62	+29°	597	3	34.1	+29	44.2	8.5	v
63	+31°	658	3	41.4	+31	6.2	8.3	)
64	+33°	781	3	43.7	+33	3.1	8.5	—
65	+32°	688	3	47.2	+32	46.3	8.3	)

Identified by J. C. M. Nov. 11, 1912
Checked by C.N.S. Nov. 12, 1912
cards made out by M. C. W.
Cards checked by E.R.B.

v	66	+29°620	3	3F.5	+28	24	8.3	2 x m 38875
v	67	+24 584	3	42.8	+24	5	8.9	6 9 m MC 64
v	68	+25 630	3	43.0	+25	25	8.3	5 " "

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

Wednesday, Nov. 13, 1918

Time: 11.18

I 38124

No.	Dist.	Class	Remark
1	1	fg5	
2	1	Ao	
3	1	A	
4	2	As	
5	1	A	
6	1	A	
7	2	fg5	
8	1	Ko	
9	1	kg	
10	1	F5	
11	2	Ko	
12	4	Ao	
13	2	Ko	
14	5	Ao	
15	2	A2	
16	3	B3	#8 bright ? St yet wrong dec. line 31 Limit seen.
17	2	B5	Lines indistinct.
18	3	Ao	
19	2	F38	
20	2	Ko	
21	1	A	
22	3	Bg	Another star superposed at south.
23	1	A2	
24	1	K5	
25	3	Ko	
26	3	Ma	
27	5	Ko	

1	+37°	12'21	5'	22.6	+37	13.0	8.4 ✓
2	+37°	12'36	5'	24.8	+37	40.0	9.2 ✓
3	+37°	12'38	5'	25.2	+37	8.9	8.8 ✓
4	+36°	11'91	5'	26.0	+36	58.9	8.1 ✓
5	+36°	11'95	5'	26.4	+36	31.0	8.7 ✓
6	+36°	11'98	5'	26.6	+36	17.6	8.5 ✓
7	+36°	11'92	5'	26.1	+36	0.6	8.3 ✓
8	+36°	11'98 6	5'	26.4	+36	8.8	8.3 ✓
9	+36°	11'98 3	5'	26.2	+36	8.4	9.1 ✓
10	+35°	11'94	5'	25.9	+35	41.5	8.7 ✓
11	+35°	11'91	5'	25.7	+35	52.1	8.2 ✓
12	+35°	11'95	5'	29.6	+36	32.8	8.1 ✓
13	+35°	11'96	5'	30.1	+35	34.1	7.8 ✓
14	+35°	11'97	5'	30.3	+35	55.2	7.5 ✓
15	+36°	12'29	5'	31.7	+36	21.9	8.7 ✓
16	+36°	12'33	5'	32.7	+36	7.2	8.0 ✓
17	+36°	12'36	5'	32.9	+36	4.4	8.3 ✓
18	+35°	12'10	5'	33.2	+35	18.3	8.5 ✓
19	+35°	12'12	5'	33.5	+35	9.1	8.7 ✓
20	+34°	11'42	5'	32.2	+34	49.8	8.4 ✓
21	+34°	11'41	5'	32.2	+34	6.8	9.1 ✓
22	+35°	12'23 12'24	5'	33.4 ~~34.6~~	+35	5.7 ~~28.4~~	8.5 ✓ magn. 8.4 +35° 1224 superposed
23	+35°	12'18	5'	34.5	+35	28.4	8.5 ✓
24	+35°	12'26	5'	35.6	+35	37.5	8.7 ✓
25	+37°	18'06	5'	35.0	+37	30.6	8.3 ✓
26	+37°	18'08	5'	35.9	+37	35.5	7.1 ✓
27	+37°	18'12	5'	36.1	+37	14.3	7.1 ✓

cards made out

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

Wednesday Nov. 13, 1912

I 38124

No.	Int.	Class	Remark
28	2	B8	
29	2	A0	
30	1	A	
31	3	F0	
32	1	F3	
33	2	F0	
34	3	G5	
35	2	A2	
36	3	A0	
37	2	F5	
38	1	A0	
39	10	F	
40	3	A2	
41	7	A0	
43	1	A5	
43	4	K0	
44	1	G5	
45	3	K0	
46	2	A5	
47	1	A3	
48	3	A0	
49	3	A3	
50	2	G0	
51	1	F	
52	3	K0	
53	3	T0g	
54	2	F0	

28	+38°	12.83	5	36.3	+38	4.4	8.8 ✓
29	+38°	12.87	5	37.1	+38	1.5	8.8 ✓
30	+38°	12.92	5	37.6	+38	6.7	9.0 ✓
31	+37°	13.26	5	38.2	+37	57.4	8.3 ✓
32	+38°	13.01	5	39.2	+38	18.1	8.5 ✓
33	+37°	13.33	5	40.5	+37	25.7	7.8 ✓
34	+37°	13.40	5	42.1	+37	47.9	8.0 ✓
35	+38°	13.21	5	43.3	+38	15.0	8.6 ✓
36	+38°	13.28	5	44.4	+38	33.1	8.5 ✓
37	+39°	14.40	5	43.6	+39	4.0	8.2 ✓
38	+39°	14.37	5	42.9	+39	12.2	8.6 ✓
39	+39°	14.29	5	41.4	+39	6.0	4.0 ✓
40	+39°	14.30	5	41.9	+39	31.2	7.7 ✓
41	+39°	14.35	5	42.6	+39	31.9	7.3 ✓
42	+37°	13.52	5	44.6	+37	22.9	8.9 ✓
43	+36°	12.82	5	43.8	+36	5.3	6.9 ✓
44	+36°	12.89	5	44.6	+36	29.3	8.3 ✓
45	+36°	12.92	5	46.1	+36	13.0	7.3 ✓
46	+36°	12.95	5	45.6	+36	45.6	8.8 ✓
47	+36°	13.04	5	47.0	+36	6.6	8.5 ✓
48	+36°	13.08	5	47.4	+36	21.6	8.3 ✓
49	+35°	12.90	5	47.6	+35	59.6	8.2 ✓
50	+35°	12.87	5	47.1	+35	42.3	8.6 ✓
51	+35°	12.83	5	46.3	+35	8.4	8.5 ✓
52	+35°	12.84	5	46.4	+35	12.4	7.9 ✓
53	+35°	12.90	5	44.2	+35	16.8	8.4 ✓
54	+35°	12.73	5	45.1	+35	1.9	8.0 ✓

cards made out

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

Wednesday, Nov. 13, 1912.
I 38124

No.	Int.	Class	Remarks
55	3	B9	
56	2	F0	
57	5	A0	E.
58	3	F0	E.
59	2	A0	E.
60	2	A0	E.
61	3	G5	
62	2	F5	
63	3	F8	
64	2	A2	
65	3	F8	
66	2	G5	
67	3	G0	
68	2	A0	
69	1	A0	
70	3	F0	
71	2	A0	
72	1	A2	
73	7	B9	
74	4	A0	
75	7	B9	
76	8	B9	
77	7	B9	
78	3	F8	
78a	3	A0	
79	5	B9	
80	2	F0	
81	5	A2	Position - more faint lines than normal. Maybe A2

55	+37°	13755	5	49.0 + 37	2.7	8.4 ✓
56	+36°	13222	5	49.8 + 36	48.8	7.9 ✓
57	+36°	13832	5	51.8 + 36	30.5	7.8 ✓
58	+35°	13208	5	51.4 + 35	14.5	8.3 ✓
59	+35°	13111	5	51.8 + 35	11.8	8.7 ✓
60	+34°	12118	5	47.8 + 34	7.7	7.0 ✓
61	+35°	12192	5	47.7 + 35	44.7	7.9 ✓
62	+36°	12164	5	89.6 + 36	7.9	8.0 ✓
63	+35°	12148	5	39.7 + 35	55.5	8.2 ✓
64	+34°	11188	5	40.7 + 34	58.7	8.9 ✓
65	+37°	12149	5	26.9 + 37	3.0	8.2 ✓
66	+35.6°	12102	5	27.2 + 35.6	57.2	7.1 ✓
67	+35.6°	12104	6	27.7 + 35.6	59.7	7.7 ✓
68	+37°	12158	5	27.3 + 37	17.0	9.2 ✓
69	+37°	12148	5	26.8 + 37	17.5	9.2 ✓
70	+38°	12226	5	27.0 + 38	13.8	8.0 ✓
71	+37°	12252	5	27.3 + 37	57.6	9.0 ✓
72	+37°	12155	5	27.8 + 37	49.3	9.0 ✓
73	+37°	12162	5	28.4 + 37	38.9	7.7 ✓
74	+37°	12170	5	29.1 + 37	39.0	8.2 ✓
75	+37°	12171	5	29.1 + 37	53.3	7.6 ✓
76	+37°	12175	5	29.7 + 37	54.4	7.0 ✓
77	+37°	12177	5	30.0 + 37	52.6	7.2 ✓
78	+38°	12239	5	29.3 + 38	27.4	8.3 ✓
78a	+37°	12182	5	30.9 + 37	15.1	7.8 ✓
79	+38°	12141	5	29.5 + 38	24.8	8.0 ✓
80	+38°	12148	5	31.0 + 38	25.9	7.7 ✓
81	+38°	12150	5	31.6 + 38	6.2	8.0 ✓

cards made out

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

Wednesday, Nov. 13, 1912.

I38 124

No.	Int.	Class	Remark
82	6	A0	
83	6	K0	
84	3	A0	Another star superposed at north.
85	3	F5	
86	4	K0	
87	3	G5	
88	3	A0	
89	2	G5	
90	3	A2	
91	1	G5	
92	3	A0	
93	2	A0	
94	1	G5	
95	4	G0	
96	2	K2	
97	2	A0	
98	1	K0	
99	2	K5	E.
Time 11.36	100	4	K5	E.

cmb. 132, 100

82	+38°	1258	5	32.4	+38	7.4	7.7	✓
83	+38°	1261	5	32.8	+38	7.3	7.4	✓
84	+38°	1267	5	33.6	+38	0.3	8.6	H +38° 1266 magn. 8.3 superposed
85	+38°	1269	5	34.1	+38	10.6	8.2	✓
86	+38°	1277	5	35.0	+38	25.4	7.5	✓
87	+39°	1405	5	36.2	+39	0.5	7.6	✓
88	+38°	1289	5	37.3	+38	55.7	8.4	✓
89	+38°	1297	5	38.5	+38	24.4	8.7	✓
90	+40°	1418	5	39.8	+40	6.7	7.9	✓
91	+38°	1247	5	31.0	+38	57.9	8.4	✓
92	+38°	1249	5	31.4	+38	49.2	8.0	✓
93	+39°	1399	5	34.9	+39	22.8	9.1	✓
94	+39°	1330	5	32.7	+39	27.4	8.2	✓
95	+39°	1335	5	33.2	+39	24.3	7.8	✓
96	+38°	1218	5	26.3	+38	55.6	8.1	✓
97	+38°	1228	5	27.2	+38	54.3	8.5	✓
98	+38°	1235	5	28.3	+38	30.6	8.4	✓
99	+41°	1222	5	24.1	+41	0.6	7.5	✓
100	+41°	1238	5	28.4	+41	45.2	7.0	✓

Identified by AMC. Nov. 18, 1912
Checked by J.B.W. Dec. 10, 1912
cards made out by M. C. W.
Cards checked by E.R.B.

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

Wednesday, Nov. 13, 1912

Time 11h. 56

I 38125

No.	Int.	Class	Remark
1	3	Ao	E.
2	4	A5	E.
3	1	g5	
4	4	A	E.
5	2	A	E.
6	2	K	E.
7	1	g5	E.
8	2	g5	E.
9	1	g5	E.
10	2	K0	
11	1	g5	
12	2	g0	
13	2	K	
14	2	K0	
15	1	g	
16	1	g	
17	2	g5	
18	1	A	
19	1	g5	
20	2	F5	
21	1	A5	
22	2	A2	
23	2	A0	
24	3	K4	
25	2	F2	
26	1	A3	
27	1	Ma	

D 33439 elevation is the median of 2 plates on nearly on B.A.

1	+46°	889	4	19.4	+46	7.2	7.8	^ J
2	+45°	941	4	20.0	+45	49.6	7.5	^ J
3	+46°	895	4	23.6	+46	22.5	8.8	^ J
4	+48°	1096	4	16.6	+48	26.8	7.5	^ J
5	+49°	1184	4	17.0	+49	6.8	8.4	^ J
6	+48°	1097	4	17.6	+48	53.1	8.0	^ J
7	+48°	1100	4	18.5	+48	43.5	8.4	^ J
8	+47°	993	4	16.9	+47	58.2	8.0	^ J
9	+47°	994	4	17.5	+47	46.5	8.5	^ J
10	+49°	1206	4	23.9	+49	17.9	8.6	' J +49° 1205 Schjellerup
11	~~+47°~~ +49°	~~1015~~ 1202	~~4~~ 4	~~26.3~~ 23.4	~~+47~~ +49	~~27.0~~ 36.6	~~8.8~~ 9.0	^ J Magn. 9.0
12	+50°	1019	4	24.8	+50	18.1	8.9	^ J
13	+49°	1210	4	26.7	+49	32.7	8.6	^ J
14	+50°	1028	4	29.1	+50	49.2	8.0	^ J
15	+47°	1008	4	24.2	+47	42.2	8.7	^ J
16	+47°	1015	4	26.3	+47	27.0	8.8	^ J
17	~~+46°~~	~~903 454~~	~~4~~	~~33.5 37.0~~	~~+46~~	~~41.3 43.7~~	~~8.5 7.3~~	^ J
18	+46°	906	4	34.3	+46	7.1	9.1	^ J
19	+47°	1023	4	31.8	+47	50.9	8.3	^ J
20	+47°	1035	4	34.9	+47	26.8	8.8	^ J
21	+47°	1039	4	35.6	+47	27.7	9.1	^ J
22	+47°	1039	4	36.1	+47	30.1	9.1	^ J
23	+47°	1048	4	37.7	+47	58.4	9.0	^ J
24	+48°	1150	4	37.7	+48	16.0	8.4	^ J
25	+47°	1052	4	39.8	+47	36.4	8.7	^ J
26	+47°	1050	4	38.9	+47	15.8	9.1	^ J
27	+45°	984	4	37.0	+45	43.7	7.3	^ J

Cards made out

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

Wednesday, Nov. 13, 1912.

I 38 125

No.	Int	Class	Remark
28	2	F2	
29	2	A0	
30	1	A	
31	1	F5	
32	9	F0	
33	1	A	
34	1	G5	
35	2	Ma	
36	2	A0	
37	2	A0	
38	3	F3g	
39	15	A	Another star superposed. Probably same class
40	4	G0	
41	1	A0	
42	1	A0	
H3	4	G0	
44	2	F0	
45	2	G5	
46	3	F0	
47	4	A0	Lines sharp. 4077 + 4128-31 seen.
48	3	F3g	
49	6	A0	
50	2	G A2	Maybe comp ~~H γ, H δ faint~~. Line G faint.
51	2	A2	
52	3	F3t	
53	82	G0	
54	6	F3t	Another star superposed. Probably class A.

28	+46°	922	4	39.1	+46	15.7	8.7	∧ ∨
29	+46°	929	4	40.9	+46	41.5	9.1	∧ ∨
30	+47°	1056	4	41.1	+47	8.6	9.0	∧ /
31	+47°	1059	4	41.5	+47	1.6	9.0	∧ ∨
32	+48°	1162	4	40.3	+48	28.8	5.8	∨
33	+48°	1151	4	38.2	+48	42.5	8.5	∧ ∨
34	+49°	1246	4	37.8	+49	16.5	8.4	∧ ∨
35	+50°	1070	4	39.5	+50	8.9	8.0	∧ ∨
36	+49°	1260	4	41.0	+49	54.4	8.7	∧ ∨
37	+50°	1075	4	41.0	+50	33.5	8.8	∧ /
38	+50°	1076	4	41.3	+50	32.1	8.4	∧ ∨
? 39	+51°	983	4	41.1	+51	7.6	8.3	∧ ∨
40	+51°	987	4	41.5	+51	16.8	8.0	∧ ∨
41	+50°	1087	4	44.2	+50	17.2	8.9	∧ ∨
42	+49°	1264	4	42.5	+49	24.3	8.8	∧ ∨
43	+49°	1265	4	43.2	+49	18.8	7.5	∧ ∨
44	+48°	1175	4	43.9	+48	48.5	8.6	∧ /
45	+48°	1173	4	43.3	+48	20.9	8.8	∧ /
46	+47°	1064	4	43.0	+47	42.5	8.3	∧ ✓
47	+47°	1074	4	45.5	+47	12.1	8.5	∧ ∨
48	+47°	1076	4	45.9	+47	6.0	8.5	∧ /
49	+47°	1077	4	46.3	+47	38.7	7.7	∧ ∨
50	+46°	939	4	45.9	+46	14.6	8.9	∧ ∨
51	+47°	1078	4	46.9	+47	46.8	8.5	∧ ∨
52	+48°	1188	4	47.6	+48	6.9	8.5	∧ ∨
53	+48°	1198	4	49.8	+48	34.5	8.5	∧ /
? 54	+48°	1196	4	50.6	+48	36.3	8.3	∧ ∨

magn. 8.9
+51° 985 superposed
Variable star in or near cluster in R.A. which I cannot understand so am not to be identified. 1912

magn. 9.2
+48° 1197 superposed

cards made out

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

Wednesday, Nov. 13, 1912.

I 38125

No.	Int.	Class	Remark
55	4	Jf0	
56	5	B3	
57	1	A	
58	3	F5	Another star superposed at north.
59	7	B3	
60	3	F5	
61	3	A2	
62	3	A0	Partly superposed on 63.
63	7	B3	
64	3	A2	
65	2	A2	
66	1	A	
67	2	Jf0	
68	2	A0	
69	3	A	E.
70	1	A	
71	1	A	
72	3	Jf0	
73	3	Jf0	
74	4	B3	
75	3	A3	
76	3	A5	
77	5	A0	
78	9	F0	
79	2	G5	
80	1	Jf0	
81	5	Jf0	

55	+49°	1287	4	51.6 + 49	18.6	8.0 ^ v
56	+49°	1292	4	52.0 + 49	18.3	7.9 ^ v
57	+49°	1293	4	53.5 + 49	19.5	8.9 ^ v +49° 1294 superposed mags. 8.0
58	+49°	1295	4	53.6 + 49	41.5	8.5 ^ v +49° 1294 mags. 8.0 superposed.
59	+49°	1300	4	54.8 + 49	51.0	7.5 ^ v
60	+49°	1301	4	55.1 + 49	46.3	7.8 ^ v
61	+49°	1305	4	55.7 + 49	43.7	8.2 ^ v
62	+49°	1306	4	56.2 + 49	51.6	8.5 ^ v
63	+50°	1122	4	56.2 + 50	5.3	7.5 ^ v
64	+50°	1121	4	55.8 + 50	21.0	9.1 ^ v
65	+50°	1125	4	56.8 + 50	26.2	9.0 ^ v
66	+50°	1127	4	57.2 + 50	34.7	9.3 ^ v
67	+51°	1020	4	54.4 + 51	1.7	8.5 ^ v
68	+50°	1123	4	56.6 + 50	56.3	9.2 ^ v
69	+52°	980	4	59.5 + 52	34.0	8.6 ^ v
70	+51°	1037	5	0.3 + 51	52.0	9.0 ^ v
71	+51°	1039	5	0.8 + 51	26.4	9.2 ^ v
72	+49°	1315	4	59.5 + 49	12.6	8.3 ^ v
73	+49°	1318	5	0.4 + 49	20.9	8.3 ^ v
74	+49°	1322	5	1.8 + 49	49.5	8.8 ^ v
75	+49°	1325	5	2.2 + 49	28.9	9.0 ^ v
76	+48°	1222	4	57.2 + 48	23.6	8.5 ^ v
77	+48°	1227	4	58.5 + 48	11.9	8.3 ^ v
78	+48°	1226	4	58.0 + 48	55.5	7.0 ^ v
79	+47°	1081	4	48.8 + 47	45.2	9.2 ^ v
80	+47°	1082	4	49.3 + 47	10.7	9.0 ^ v
81	+47°	1089	4	53.2 + 47	37.1	7.3 ^ v

cards made out

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

Wednesday Nov. 13, 1913.

I 38125

No	Int.	Class	Remark
82	3	A0	
83	3	A2	
84	6	A0	
85	3	B9	
86	3	A2	
87	3	A0	
88	2	F0	
89	2	A2	
90	2	F0	
91	3	A0	
92	1	F0	
93	1	G5	
94	2	F0	
95	2	F0	
96	2	F2	
97	3	A0	
98	9	F2	
99	2	G	
100	2	F5	
101	2	A	
102	4	A0	
103	3	F	
104	3	F0	
105	4	F0	
106	3	F0	
107	2	G	
108	2	A0	

82	+48°	1205	4	52.2	+48	19.6	8.5	∧ ✓
83	+48°	1213	4	54.9	+48	21.0	9.1	∧ ✓
84	+48°	1214	4	55.1	+48	27.3	7.9	∧ ∨
85	+48°	1216	4	55.4	+48	22.6	8.6	∧ ∨
86	+47°	1095	4	56.0	+47	47.3	9.0	∧ ∨
87	+47°	1098	4	56.9	+47	36.5	9.0	∧ ∨
88	+47°	1103	4	59.5	+47	40.0	8.9	∧ ∨
89	+47°	1104	4.5	0.4	+47	39.0	9.2	∧ ∨
90	+48°	1235	5	2.0	+48	7.8	8.4	∧ ∨
91	+47°	1113	5	3.8	+47	59.7	9.1	∧ ∨
92	+48°	1241	5	4.2	+48	11.8	8.5	∧ ∨
93	+49°	1880	5	4.3	+49	0.8	8.8	∧ ✓
94	+49°	1334	5	6.3	+49	10.7	8.5	∧ ✓
95	+48°	1245	5	6.5	+48	46.5	8.0	∧ ∨
96	+49°	1268	4	45.0	+49	29.4	8.5	∧ ✓
97	+49°	1270	4	45.6	+49	32.2	8.8	∧ ∨
98	+49°	1271	4	46.0	+49	40.6	7.0	∧ ∨
99	+50°	1103	4	50.2	+50	2.1	8.5	∧ ✓
100	+50°	1107	4	51.0	+50	2.1	8.5	∧ ✓
101	+50°	1108	4	51.2	+50	15.6	9.0	∧ ✓
102	+50°	1110	4	51.6	+50	23.3	8.2	∧ ∨
103	+51°	1009	4	51.0	+51	28.1	8.6	∧ ∨
104	+51°	1005	4	47.7	+51	41.8	8.0	∧ ∨
105	+52°	905	4	47.9	+52	14.3	8.0	∧ ✓
106	+52°	861	4	27.2	+52	27.3	8.6	∧ ∨
107	+51°	973	4	35.6	+51	44.9	8.1	∧ ✓
108	+51°	976	4	36.0	+51	22.1	8.8	∧ ∨
						cards	m dde	ord

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

Wednesday Nov. 13, 1912.
I 38125

No.	Int	Class	Remark
109	1	Ao	
110	2	Fo	
111	2	Ao	
112	3	F	E.
Time 12.24 113	10	Ao	
114	3	Ko	
115	5	Bq	
116	1	Ko	
117	2	Ao	
118	3	Ko	
" 119	3	Bq	
120	2	Ko	
121	3	Fo	
122			

109	+51°	977	4	37.2	+51	17.8	9.0	∧	
110	+50°	1051	4	35.3	+50	49.4	7.7	∧	
111	+50°	~~885~~ 1028	4	~~39.7~~ 51.2	+50	~~8.5~~ 15.6	~~5.7~~ 9.0	∧	
112	+52°	889	4	40.8	+52	29.9	8.7	∧	
113	+52°	891	4	41.7	+52	34.3	7.2	∧	

Identified by A.M.C. Nov. 19, 1912
Checked Dec. 3. 1912 A.M.W.
cards made out by M. C. W.
Cards checked by S.R.B.

✓	114	+47°	1021	4	31.6	+47	18	7.8	37 on I 37406
✓	115	+46°	921	4	38.7	+46	56	8.1	43 " "
✓	116	+49°	1247	4	37.9	+49	50	8.7	91 " "
✓	117	+50°	1061	4	37.5	+50	22	8.8	90 " "
✓	118	+49°	1237	4	35.2	+49	40	8.4	86 " "
✓	119	+52°	877	4	34.5	+52	31	8.5	132 " "
✓	120	+51	1048	5	51.0	+51	28	9.0	153 " I 37366
	121	+44	1074						69 on I 37088

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

Friday, Nov. 15, 1912.

Time: 10.43

B15165 short disp.

Nr.	Int.	Class	Remark
1	10	H0	
2	1	H0	
3	8	H0	
4	10	g5	
5	3	F2	
6	4	g0	
7	2	F2	
8	2	F8	
9	2	g5	
10	4	A0	
11	2	H0	
12	1	H0	
13	1	g	
14	1	F5	
15	7	H0	
16	1	H0	
17	1	H0	
18	1	H0	
19	2	F5	
20	1	F8	
21	10+	A0	
22	2	H2	
23	2	H0	
24	2	g0	
25	1	H0	
26	3	H0	
27	5	g5	

1	−82°	4	0	4.3	−82	55.2	6.3	/
2	−82°	1	0	0.3	−82	58.5	9.2	✓
3	−82°	907	23	50.6	−82	52.0	6.7	/
4	−82°	905	23	44.7	−82	42.8	6.1	✓
5	−83°	757	23	40.0	−83	6.5	8.1	/
6	−83°	756	23	35.7	−83	11.9	7.8	✓
7	−82°	902	23	36.7	−82	37.2	8.7	✓
8	−82°	897	23	29.0	−82	47.5	8.6	/
9	−83°	752	23	25.6	−83	1.7	8.6	✓
10	−83°	751	23	23.9	−83	12.7	8.3	✓
11	−83°	749	23	20.0	−83	12.9	8.8	✓
12	−82°	896	23	20.1	−82	36.7	8.9	✓
13	−82°	894	23	14.7	−82	19.0	8.9	✓
14	−82°	893	23	9.6	−82	35.4	9.2	✓
15	−81°	1036	23	23.0	−81	30.9	8.2	✓
16	−81°	1038	23	24.3	−81	24.7	9.0	✓
17	−82°	892	22	57.6	−82	13.2	9.0	✓
18	−81°	1022	22	57.0	−81	56.0	9.3	✓
19	−81°	1020	22	45.4	−81	46.5	8.7	✓
20	−81°	1018	22	44.3	−81	53.0	9.0	✓
21	−82°	889	22	38.1	−82	2.0	4.7	✓
22	−80°	1053	22	32.6	−80	53.6	8.8	✓
23	−81°	1009	22	26.8	−81	4.5	8.8	✓
24	−81°	1004	22	17.6	−81	19.9	8.8	✓
25	−81°	1012	22	89.4	−81	35.2	9.3	✓
26	−83°	742	22	38.2	−83	21.8	8.7	✓
27	−83°	743	22	49.8	−83	22.5	8.1	/

Cards made out

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

Friday, Nov. 15, 1912.

B 5165 chart disp.

No.	Int.	Class	Remark
28	1	fp5	
29	2	fp0	
30	3	fp0	
31	2	fp8	
32	2	fp5	
33	1	fp5	
34	1	fp0	
35	2	fp5	
36	1	fp5	
37	1	fp0	
38	2	fp0	
39	1	fp0	
40	2	fp0	
41	3	fp0	
42	1	fp0	
43	3	A2	
44	1	fp5	
10.50 45	1	fp0	
46	5	A0	
47	7	A0	
48	4	A0	
49	5	A2	
~~50~~	5	fp5	
51	4	A0	Comr B1 128 130

28	−84°	655	23	14.6	−84	14.1	8.8	✓
29	−83°	755	23	34.2	−83	49.5	8.9	✓
30	−83°	760	23	49.6	−83	40.7	8.5	✓
31	−84°	661	23	54.8	−84	13.1	8.7	✓
32	−84°	1	0	0.0	−84	47.6	9.0	✓
33	−85°	560	23	50.4	−85	1.6	9.2	✓
34	−84°	3	0	3.4	−84	7.6	9.2	✓
35	−83°	5	0	18.5	−83	22.5	8.7	✓
36	−83°	3	0	13.3	−83	45.3	9.2	✓
37	−83°	8	0	33.2	−83	37.0	9.2	✓
38	−81°	28	1	30.1	−81	51.0	8.9	✓
39	−81°	26	1	25.5	−81	31.1	9.2	✓
40	−81°	25	1	26.5	−81	46.2	9.0	✓
41	−83°	24	1	11.4	−83	12.4	8.5	✓
42	−82°	18	1	7.7	−82	44.4	9.0	✓
43	−83°	22	1	7.7	−83	34.2	8.8	✓
44	−83°	16	0	53.4	−83	20.8	8.9	✓
45	−83°	12	0	46.0	−83	11.1	9.2	✓

Identified by AMC. Nov. 19, 1912

Checked by J.B.W. Nov. 26, 1912

cards made out by M. C. W.

Cards checked by E.R.B.

✓	46	−81	22	1	17.1	−81	53	8.6	100 on B 3815 35
✓	47	−83	10	0	36.8	−83	43	7.8	72 on B 5173
✓	48	−84	6	0	17.5	−84	26	8.3	68 " "
✓	49	−81	1029	23	5.0	−81	6	7.6	38 on B 3813
✓	50	−81	1027	23	6.2	−81	12	8.1	37 " "
✓	51	−79	1244	23	50.9	−79	58	7.7	150 " "

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

Friday. Nov. 15, 1912.

Time: 11.00

B 11989 Chief asst.

	No.	Int.	Class	Remarks
✓	1	5	Ly5	
✓	2	8	Lyo	
✓	3	3	Ly0	
✓	4	4	Ly5	
16.11 ✓	5	1	Ly0	

1	−82°	28	1	39.9	−82	55	7.8 ✓
2	−83°	27	1	41.3	−83	37	6.3 ✓
3	−83°	28	1	42.4	−83	52	8.2 ✓
4	−83°	30	1	47.7	−83	59	7.7 ✓
5	−84°	14	0	46.6	−84	54	8.8 ✓

Identr. on Cards by Anc. Dec. 31, 1914

Identr. in Book by J.C.M. Dec. 31, 1914

Identification compared by E.R.B. Dec. 31, 1914

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

Friday, Nov. 15, 1912

Time: 11.15

B 15145 chart disp.

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

1	−85°	12	0	51.0	−85	36.9	8.3	∧ ∪
2	−85°	14	1	12.1	−85	57.6	9.2	∧ ∨
3	−85°	18	1	45.8	−85	41.8	8.9	∧ ∨
4	−86°	14	1	16.4	−86	20.7	9.2	∧ ∨
5	−86°	21	1	51.3	−86	19.1	9.3	∧ ∨
6	−86°	22	1	54.2	−86	25.0	8.9	∧ ∨
7	−86°	~~28~~ 18	1	45.6	−86	34.1	9.1	∧ ∨
8	−86°	26	2	28.4	−86	16.0	9.2	∧ ∪
9	−86°	28	2	39.6	−86	16.2	7.5	∧ ∨
10	−86°	27	2	38.1	−86	20.5	9.2	∧ ∧
11	−86°	31	3	3.8	−86	22.0	7.9	∧ ∧
12	−86°	37	3	44.1	−86	0.1	8.7	∧ ∪
13	−86°	40	3	53.0	−86	20.8	8.4	∧ ∪
14	−86°	39	3	49.5	−86	33.0	8.1	∧ ∪
15	−86°	41	3	58.4	−86	30.3	9.0	∧ ∪
16	−86°	42	4	10.9	−86	33.6	9.1	∧ ∨
	Alpha 1872 to Pol.		4	23.0	−86	28.0		
17	~~−86~~	~~43~~	4	19.3	−86	27.9	9.4	∧ ∨
18	−86°	44	4	29.7	−86	28.9	9.0	∧ ∧
19	−86°	45	4	31.7	−86	39.9	8.8	∧ ∨
20	−86°	48	4	36.4	−86	32.5	7.6	∧ ∨
21	−86°	49	4	44.5	−86	28.0	8.2	∧ ∪
22	−86°	53	5	8.3	−86	32.8	8.2	∧ ∪
23	−87°	68	5	4.3	−87	9.6	8.9	∧ ∧
24	−85°	53	5	3.3	−85	53.0	9.1	∧ ∧
25	−85°	59	5	14.9	−85	41.8	9.0	∧ ∨
26	−85°	61	5	18.1	−85	32.5	8.3	∧ ∨
27	−85°	62	5	21.6	−85	49.7	9.1	∧ ∧

cards made out

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

Friday, Nov 15, 1912.

B 15145 chart difs.

Nr.	Int.	Class	Remark
28	3	Ly_0	
29	3	A_2	
30	1	Ly_5	
31	5	F_2	
32	10	Ly_5	
33	6	A_5	
34	3	F_2	
35	1	H_2	
36	3	F_0	
37	7	A_5	
38	10	A_1	Burned out
39	2	H_2	
40	4	H_9	
41	4	F_5	
42	2	Ly_5	
43	3	F_0	
44	3	F_5	The preceding F_{IV}.
45	4	H_5	
46	2	Ly_5	
47	3	F_8	
48	3	F_0	
49	7	F_8	
50	4	A_5	
51	4	A_2	
52	3	F_0	
53	4	A_2	
54	5	Ly_5	

28	−85°	66	5	30.3	−85	37.1	8.5	∧ ∨
29	−85°	68	5	31.7	−85	10.5	8.5	∧ ∨
30	−85°	70	5	37.2	−85	9.4	9.0	∧ ∨
31	−85°	72	5	42.6	−85	46.9	8.6	∧ ∨
32	−85°	77	6	12.7	−85	55.5	7.6	∧ ∨
33	−86°	77	6	26.2	−86	3.0	7.8	∧ ∨
34	−85°	82	6	30.9	−85	37.9	8.0	∧ ∨
35	−85°	84	6	33.2	−85	28.0	9.1	∧ ∨
36	−84°	90	6	36.3	−84	59.6	8.5	∧ ∨
37	−84°	85	6	7.8	−84	55.0	7.8	∧ ∨
38	−84°	75	5	54.5	−84	50.5	6.0	∧ ∨
39	−84°	82	6	2.0	−84	36.3	8.7	∧ ∨
40	−84°	66	5	31.4	−84	24.0	8.1	∧ ∨
41	−87°	47	3	29.9	−87	10.0	8.9	∧ ∨
42	−86°	33	3	18.6	−86	54.7	8.9	∧ ∨
43	−87°	19	1	14.4	−87	17.4	9.1	∧ ∨
44	−86°	34	2	16.4	−86	46.7	8.9	∧ ∨
45	−87°	23	1	35.2	−87	59.4	8.8	∧ ∨
46	−87°	27	2	3.7	−87	48.4	9.2	∧ ∨
47	−87°	29	2	17.2	−87	49.6	9.0	∧ ∨
48	−87°	32	2	54.7	−87	51.8	9.2	∧ ∨
49	−87°	51	3	41.6	−87	46.2	8.4	∧ ∨
50	−87°	54	4	1.7	−87	37.1	8.8	∧ ∨
51	−87°	57	4	20.5	−87	42.0	8.9	∧ ∨
52	−87°	55	4	12.0	−87	58.6	9.2	∧ ∨
53	−88°	32	3	45.0	−88	22.5	9.0	∧ ∨
54	−88°	27	3	19.9	−88	40.0	8.4	∧ ∨

c and m a de out

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

Friday, Nov. 15, 1912.

B 1745 shut disp.

Nr.	Int.	Class	Remark
55	9	Q	
56	4	Q	
57	2	N0	
58	10	Q	Burned out
59	3	N0	
60	5	fg5	
61	3	F0	
62	8	F5	
63	6	ma	
64	4	fg5	
65	3	N0	
66	2	N0	
67	2	Q	
68	2	Q	
69	3	N0	
70	3	fg5	
71	3	N0	
72	2	N0	
73	5	Q	
74	4	Q	
75	10	Q	
76	4	fg5	
77	7	Q	
78	1	N0	
79	2	Q	
80	4	F2	
81	9	F5	

55	-88°	22	2	50.4	-88	56.1	7.8
56	-89°	6	1	50.7	-89	6.4	8.9
57	-89°	5	1	16.9	-89	5.2	9.0
58	-89°	1	0	12.9	-89	3.5	7.2
59	-88°	46	4	31.9	-88	57.2	9.0
60	-88°	50	4	52.8	-88	34.4	8.5
61	-88°	49	4	50.9	-88	7.9	8.9
62	-88°	53	5	28.4	-88	0.8	7.1
63	-88°	58	6	17.2	-88	21.3	8.3
64	-86°	79	6	29.2	-86	52.8	8.8
65	-86°	80	6	29.9	-86	21.6	8.7
66	-86°	81	6	32.6	-86	14.8	8.9
67	-86°	85	6	45.8	-86	42.5	8.8
68	-87°	101	7	12.2	-87	16.3	9.2
69	-87°	103	7	17.1	-87	24.0	9.0
70	-87°	105	7	23.3	-87	33.4	9.2
71	-88°	67	7	33.7	-88	13.1	9.3
72	-87°	98	6	55.3	-87	56.4	9.5
73	-88°	65	7	21.6	-88	49.5	8.2
74	-89°	22	8	14.9	-89	9.7	8.3
75	-88°	68	8	10.6	-88	30.2	6.7
76	-88°	71	8	17.1	-88	15.4	8.5
77	-88°	76	8	58.3	-88	28.0	7.7
78	-87°	119	7	53.7	-87	44.2	9.4
79	-87°	116	7	50.7	-87	29.6	8.8
80	-87°	113	7	45.5	-87	3.6	8.4
81	-86°	105	7	30.1	-86	49.1	8.8

cards made out

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

Friday. Nov. 15, 1912.
B 5145 chart disp.

Nr.	Int.	Class	Remark
82	2	F0	
83	3	A2	
84	4	F5	
85	7	A2	
86	5	A2	
87	5	A2	
88	8	F5	
89	5	K0	
90	9	K3	
91	3	K2	
92	3	K5	
93	2	F	
94	10	A0	
95	8	F5	
96	2	K2	
97	5	K5	
98	3	A0	
99	1	K5	
100	3	K0	
11.42 101	4	F2	
102	10	B0	
103	7	K0	
104	4	K0	
105	3	F8	

82	-86°	106	7	31.4	-86	43.2	8.8	1 ✓
83	-85°	108	7	32.1	-85	45.0	8.9	1 V
84	-85°	118	7	45.9	-85	59.2	8.7	1 V
85	-85°	137	8	8.0	-85	34.9	8.0	1 V
86	-85°	129	8	0.1	-85	7.1	8.3	1 ✓
87	-84°	128	7	30.6	-84	47.5	8.3	1 V
88	-83°	142	7	5.2	-83	49.6	7.9	1 V
89	-83°	151 155	7	17.3 20.0	-83 -83	33.1 41.6	8.4 9.0	✓
90	-84°	132	7	31.6	-84	13.5	7.2	1 V
91	-86°	123	8	9.4	-86	26.6	9.1	1 V
92	-86°	132	8	22.5	-86	14.2	9.1	1 V
93	-86°	137	8	42.4	-86	22.4	8.9	1 V
94	-86°	138	8	44.5	-86	8.0	6.8	1 V
95	-87°	138	9	2.7	-87	16.6	7.3	1 V
96	-87°	147	9	25.5	-87	44.9	9.0	1 V
97	-87°	151	9	42.5	-87	44.1	7.6	1 V
98	-86°	152	9	5.7	-86	44.8	8.7	1 V
99	-86°	146	8	57.6	-86	22.2	9.5	1 V
100	-86°	155	9	16.7	-86	3.6	8.7	1 ✓
101	-85°	169	8	47.6	-85	56.6	8.3	1 ✓

Identified by ANC. Nov. 20, 1912
Checked. Nov. 25, 1912 DW.
errors made out by M.C.W.
Cards checked by E.R.B.

102	-84°	48	4	34.4	-84	46.4	6.7	✓
✓ 103	-85	33	2	57.4	-85	33	8.1	173 in B 2858
✓ 104	-85	37	3	25.1	-85	44	8.7	176 " "
✓ 105	-85	42	3	39.1	-85	2	8.7	183 " "

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

Friday, Nov. 15, 1912

Time: 11.43

B 22980 short disp.

No.	Int.	Class	Remarks
1	9	Ma	
2	5	H5	
3	8	H0	
4	6	H5	
5	9	A5	
6	6	A2	
7	4	H5	
8	2	H0	
9	7	H2	
10	2	H2	
11	2	H5	
12	3	H5	
13	3	K0	
14	4	K5	
15	6	A0	
16	2	K5	
17	5	A2	
18	2	M0	
19	7	F8	
20	5	K5	
21	3	K5	
22	2	M1	
23	2	M5	
24	3	M2	
25	2	K5	Nearly all superposed on 25a.
25a	2	F0	
26	10	F0	
27	3	A5	

1	-86°	388	20	41.5	-86	57.6	9.5
2	-87°	306	20	50.8	-87	18.7	8.9
3	-87°	303	20	34.4	-87	32.4	8.9
4	-87°	305	20	45.0	-87	42.1	8.9
5	-87°	298	20	9.1	-87	12.8	7.4
6	-86°	386	20	0.5	-86	41.8	8.3
7	-86°	383	19	54.8	-86	38.0	8.9
8	-86°	382	19	52.1	-86	32.9	8.8
9	-86°	379	19	43.0	-86	28.0	8.3
10	-87°	314	21	31.7	-87	52.8	9.4
11	-87°	312	21	18.5	-87	56.9	9.5
12	-88°	191	21	49.4	-88	7.4	9.4
13	-87°	308	20	57.8	-87	48.7	9.2
14	-88°	188	21	31.7	-88	24.0	9.0
15	-88°	211	23	30.0	-88	58.7	8.5
16	-88°	198	22	28.8	-88	53.0	9.7
17	-89°	62	23	52.6	-89	1.5	8.9
18	-88°	193	21	53.7	-88	53.2	9.9
19	-88°	192	21	49.8	-88	57.4	8.4
20	-89°	3	0	58.5	-89	18.4	9.0
21	-89°	12	3	35.5	-89	6.2	9.6
22	-88°	40	4	3.0	-88	59.7	9.9
23	-89°	10	3	17.8	-89	24.0	9.9
24	-89°	56	22	13.2	-89	28.0	9.7
25	-89°	51	20	47.5	-89	20.7	9.7
25a	-89°	52	20	61.1	-89	21.9	9.7
26	-89°	53	21	9.8	-89	25.5	6.5
27	-89°	50	20	10.0	-89	26.6	9.2

cards made out

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

Friday, Nov. 15, 1912.

B22900 shut disp.

Nr.	Int.	Class	Remark
28	4	K5	
29	7	A0	
30	7	G0	
31	6	A2	
32	7	G5	
33	2	A0	
34	1	F	
35	3	K5	
36	3	K5	
37	10	K0	
38	3	A5	
39	5	K3	
40	4	F2	
41	f4	K0	
43	6	K0	
43	6	K0	
44	2	K5	
45	4	G5	
46	2	A3	
47	2	A0	
48	3	K0	
49	2	K5	
50	4	K2	
51	7	A0	
53	6	A0	
53	1	G5	
54	3	K5	

28	-88°	175	19	26.6	-88	51.5	9.4 ✓
29	-88°	170	19	9.1	-88	26.8	8.7 ✓
30	-88°	169	18	55.1	-88	6.0	8.5 ✓
31	-87°	293	19	17.9	-87	59.7	8.7 ✓
32	-87°	295	19	22.0	-87	48.4	8.4 ✓
33	-87°	296	19	38.1	-87	54.5	9.2 ✓
34	-87°	299	20	14.6	-87	51.9	9.6 ✓
35	-87°	291	19	3.4	-87	6.2	9.4 ✓
36	-87°	282	18	7.5	-87	18.3	9.4 ✓
37	-87°	274	17	41.2	-87	39.4	7.2 ✓
38	-88°	160	17	39.0	-88	21.3	9.4 ✓
39	-88°	158	17	16.6	-88	57.2	9.2 ✓
40	-88°	153	16	45.8	-88	35.9	9.2 ✓
41	-88°	150	16	33.1	-88	42.7	9.3 ✓
42	-88°	147	16	14.8	-88	48.5	8.6 ✓
43	-88°	142	15	40.0	-88	57.9	8.8 ✓
44	-88°	133	14	52.8	-88	53.8	9.5 ✓
45	-88°	141	15	38.9	-88	37.5	9.2 ✓
46	-88°	139	15	25.5	-88	35.2	9.4 ✓
47	-88°	137	15	5.7	-88	27.8	9.3 ✓
48	-88°	136	~~14~~ 15	~~15.~~ 1.4	-88	11.7	9.5 ✓
49	-88°	131	14	46.0	-88	5.3	9.7 ✓
50	-88°	130	14	~~4.3~~ 24.3	-88	9.5	8.8 ✓
51	-87°	241	15	7.7	-87	36.6	8.5 ✓
52	-87°	247	15	27.4	-87	24.2	8.7 ✓
53	-87°	243	15	12.7	-87	30.1	9.4 ✓
54	-87°	246	15	21.7	-87	10.9	9.9 ✓

cards made out

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

Friday. Nov. 15. 1912.

B 22980 chart disp.

	hr.	Int.	Class	Remark
	55	5	J2	
	56	7	J2	
	57	2	J1/2	
	58	2	Jul	
	59	4	G5	
	60	10	G5	
	61	1	J1/2	
	62	2	J1/2	
	63	3	J1/2	
	64	5	J1/2	
	65	7	J1/2	
	66	2	J0	
12.00	67	4	Ma	Mt with H & K bright = 10. H δ = 12.
12.07	68	3	G5	
	69	2	G5	
	70	3	J1/2	
	71	2	J1/2	
	72	4	J1/2	
	73	1	A	
	74	2	J1/2	
	75	3	G5	
	76	2	G5	
	77	2	G0	
	78	2	G5	
	79	3	J1/2	
	80	3	J1/2	
	81	4	G5	

55	-87°	250	15	49.0	-87	13.5	8.8	✓
56	-87°	258	16	7.9	-87	3.1	8.5	✓
57	-86°	332	16	4.1	-86	56.2	9.5	✓
58	-86°	329	15	56.3	-86	50.9	9.7	✓
59	-87°	262	16	20.4	-87	1.9	8.8	✓
60	-87°	269	16	10.8	-87	19.9	7.8	✓
61	-87°	251	15	53.5	-87	25.6	9.7	✓
	-87°	253	16	0.7	-87	36.5	9.9	✓
62	-88°	83	9	15.8	-88	14.4	9.7	
	-87°	260	16	12.2	-87	40.3	9.4	
63	-88°	81	9	11.0	-88	9.8	9.4	✓
64	-87°	266	16	53.4	-87	7.9	9.2	✓
65	-87°	267	16	53.5	-87	15.6	8.8	✓
66	-87°	269	17	7.2	-87	13.2	9.3	✓
67	-86°	346	17	13.1	-86	44.3	9.5	✓
68	-87°	268	17	5.0	-87	53.2	9.4	✓
69	-87°	270	17	10.6	-87	47.8	9.4	✓
70	-88°	152	16	46.6	-88	15.8	9.9	✓
71	-88°	140	15	34.5	-88	12.8	9.7	✓
72	-89°	42	16	1.3	-89	15.7	9.9	✓
73	-89°	43	16	32.1	-89	9.3	9.7	✓
74	-89°	45	17	38.5	-89	17.0	10.3	✓
75	-88°	162	18	17.8	-88	31.0	9.4	✓
76	-88°	164	18	19.8	-88	39.6	9.6	✓
77	-88°	167	18	30.0	-88	3.4	9.4	✓
78	-87°	286	18	35.8	-87	36.2	9.5	✓
79	-88°	3	0	25.5	-88	48.9	9.7	✓
80	-88°	10	1	27.3	-88	46.4	9.9	✓
81	-88°	13	1	38.6	-88	30.8	9.3	✓

Cards made out

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

Friday, Nov 15, 1912.

B22 980 Nust disp.

No	Mag.	Class	Remark
82	4	F8	
83	6	G5	
84	5	G5	
85	1	F5	
86	3	G5	
87	3	G0	
88	2	F2	
89	3	G5	
90	2	G5	
91	1	F	
92	3	F0	
93	4	G5	
94	1	F	
95	8	A2	
96	8	F2	
97	2	F5	
98	6	F2	
99	3	G5	
100	4	F5	
101	6	G0	
Prime 12.15 102	3	M0	
103	4	A2	
104	2	K0	
105	2	K	

82	-88°	12	1	31.0	-88	21.0	9.3	✓
83	-88°	2	0	21.2	-88	21.7	8.5	✓
84	-86°	1	0	7.6	-88	6.6	8.7	✓
85	-87°	~~19~~ 20	1	~~14.5~~ 7.3	-87	~~17.4~~ 52.7	~~9.8~~ 9	✓
86	-87°	341	23	29.3	-87	34.0	9.2	✓
87	-87°	329	22	32.0	-87	41.7	9.3	✓
88	-87°	344	23	35.9	-87	57.4	9.7	✓
89	-87°	321	22	0.0	-87	44.4	9.5	✓
90	-87°	311	21	7.9	-87	39.0	9.5	✓
91	-87°	309	21	1.0	-87	21.6	9.9	✓
92	-86°	399	21	42.9	-86	57.0	9.3	✓
93	-86°	370	18	47.5	-86	42.7	9.1	✓
94	-86°	366	18	39.8	-86	47.4	9.4	✓
95	-86°	361	18	22.0	-86	9.1	8.3	✓
96	-86°	357	18	0.5	-86	16.0	8.5	✓
97	-86°	~~358~~ 8	18	~~0.5~~ 1.5	-86	~~32.3~~ 35.0	~~9.8~~ 3	✓
98	-86°	351	17	40.3	-86	41.0	8.6	✓
99	-86°	353	17	43.6	-86	18.4	9.0	✓
100	-86°	352	17	42.0	-86	2.2	9.0	✓
101	-85°	478	17	54.9	-85	45.5	8.4	✓
102	-85°	484	18	16.4	-85	40.5	9.3	✓

Identified by J.C.M. April 3, 1913

Checked by ANC. April 7, 1913

Cards made out by Mr. C.W.

Cards checked by C.R.B.

103	-89°	6	1	50.7	-84	6.4	8.9	✓
104	-89	19	6	21.5	-85	49	9.9	✓ m B22578
105	-89	39	12	48.2	-89	34	9.9	✓

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

Saturday, Nov. 16, 1912.

Time 10. 22

B22572 dist diff.

No	Int.	Class	Remark
1	2	G5	
2	3	G5	
3	2	K	The following of two.
4	2	K0	
5	3	K0	
6	2	K0	
7	7	Ma	
8	8	M	
9	4	K0	
10	9	B9	
11	1	K	
12	5	K5	
13	3	K2	
14	5	K0	
15	7	M	
16	6	B9	
17	6	A3	
18	5	B9	
19	3	G5	
20	4	K0	
21	4	A0	
22	2	A	The southern of two.
23	4	B9	
24	3	B9	
25	3	K2	
26	2	K2	
27	10	A0	

1	-89°	12	3	35.5	-89	6.2	9.5 ✓
2	-89°	11	3	21.5	-89	48.4	9.2 ✓
3	-89°	16	5	36.9	-89	32.8	9.5 ✓
4	-89°	19	6	21.5	-89	49.4	9.9 ✓
5	-89°	39 46	13 ~~18~~	48.2 ~~58.0~~	-89	34.4 ~~33.9~~	9.9 ~~9.9~~ ✓
6	-89°	38	12	50.5	-89	37.2	9.5 ✓
7	-89°	37	12	33.5	-89	6.8	8.3 ✓
8	-88°	127	13	57.9	-88	48.1	8.1 ✓
9	-89°	33	11	23.0	-89	10.7	9.0 ✓
10	-89°	34	11	27.5	-89	6.7	7.6 ✓
11	-89°	24	9	24.8	-89	8.7	9.7 ✓
12	-88°	95	10	29.8	-88	52.8	8.5 ✓
13	-88°	108	11	24.9	-88	45.1	9.0 ✓
14	-88°	101	10	41.8	-88	43.5	8.4 ✓
15	-88°	109	11	26.1	-88	33.3	7.4 ✓
16	-88°	76	8	58.3	-88	28.0	7.7 ✓
17	-88°	86	9	38.6	-88	30.7	7.6 ✓
18	-88°	94	10	26.4	-88	24.7	8.1 ✓
19	-88°	104	10	59.8	-88	21.1	8.8 ✓
20	-88°	107	11	22.8	-88	16.6	8.5 ✓
21	-88°	125	13	21.7	-88	7.5	8.9 ✓
22	-88°	120	13	2.8	-88	9.0	9.2 ✓
23	-87°	222	13	4.2	-87	49.8	8.6 ✓
24	-87°	227	13	52.3	-87	59.9	9.0 ✓
25	-87°	229	14 ~~13~~	2.0	-87	49.3	9.2 ✓
26	-87°	231	14	8.3	-87	40.9	9.7 ✓
27	-87°	235	14	29.2	-87	38.0	7.2 ✓

mags. 9.9 -89°40 superposed

cards made out

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

Saturday, Nov. 16, 1912

B 225 78 ch. 5 disp.

Thr.	Int.	Class	Remarks
28	3	B9	
29	5	K5	
30	6	F0	
31	8	K5	
32	8	A5	
33	4	K5	
34	6	F8	
35	4	F8	
36	2 3	K0	
37	2	A0	
38	5	F8	
39	5	Ao	
40	2	K0	Partly superposed on 39.
41	8	A0	
42	6	A2	
43	6	Ao	
44	2	A2	
45	2	A0	
46	1	A	
47	4	A0	
48	5	A2	
49	4	A2	
50	4	A0	
51	8	K0	
52	3	A2	
53	4	K5	
54	1	A2	

28	-87°	233	14	25.4	-87	35.2	8.9	✓
29	-87°	238	14	49.2	-87	19.1	8.8	✓
30	-87°	237	14	44.4	-87	9.4	8.4	✓
31	-87°	236	14	33.7	-87	12.8	8.4	✓
32	-86°	322	15	0.6	-86	49.6	8.5	✓
33	-86°	321	14	59.9	-86	44.7	9.1	✓
34	-86°	~~237~~ 317	14	47.2	-86	18.9	8.8	✓
35	-87°	234	14	27.8	-87	3.0	8.8	✓
36	-86°	315	14	26.2	-86	53.8	9.3	✓
37	-86°	313	14	25.1	-86	43.0	9.3	✓
38	-86°	314	14	25.4	-86	39.1	8.5	✓
39	-85°	422	14	37.6	-85	47.6	8.7	✓
40	-85°	420	14	35.7	-85	49.9	9.8	✓
41	-85°	415	14	30.3	-85	57.2	8.6	✓
42	-85°	410	14	18.9	-85	51.0	8.8	✓
43	-85°	411	14	23.6	-85	37.4	8.8	✓
44	-87°	228	13	56.5	-87	45.6	9.7	✓
45	-87°	226	13	32.2	-87	24.9	9.5	✓
46	-87°	225	13	30.1	-87	9.6	10.0	✓
47	-86°	306	13	29.5	-86	59.5	8.8	✓
48	-86°	307	13	32.6	-86	38.1	9.2	✓
49	-86°	303	13	21.8	-86	42.4	9.4	✓
50	-86°	~~289~~ 299	13	11.4	-86	52.5	9.2	✓
51	-86°	283	12	53.7	-86	58.2	7.8	✓
52	-86°	277	12	47.8	-86	46.0	9.2	✓
53	-86°	278	12	49.0	-86	32.9	8.7	✓
54	-86°	~~294~~ 294	13	5.8	-85	29.9	9.2	✓

19 6 33.0 6

cards made out

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

Saturday, Nov. 16, 1918

B 322578 clust disp.

Nr.	Int.	Class	Remark
55	3	fg2	
56	2	fg0	
57	10+	A	
58	3	fg3	
59	4	Jf0	
60	3	Ma	
61	3	Jf0	
62	2	Jf	Another star partly superposed.
63	2	Jf2	
64	4	fg0	
65	3	Jf2	
66	6	fg5	
67	3	Ao	
68	4	F0	
69	2	Jf0	
70	2	Jf2	
71	2	Jf2	
72	2	Jf2	
73	8	Nf2	
74	2	Jf0	
75	4	f E.	
76	4	Jf0	
77	3	Jf0	
78	2	Jf0	
79	2	fg5	
80	2	fg	
81	3	Jf0	

55	-87°	212	12	42.8	-87	38.9	9.0	J
56	-87°	201	12	23.2	-87	52.1	9.4	v
57	-87°	196	12	7.7	-87	43.2	6.5	J
58	-87°	207	12	31.3	-87	26.1	9.0	v
59	-87°	~~186~~ 176	11	18.3	-87	40.1	8.6	v
60	-87°	~~190~~ 180	11	26.4	-87	33.8	9.0	v
61	-87°	172	10	59.2	-87	40.1	9.2	J
62	-88°	83	9	15.8	-88	14.4	9.2	v
63	-88°	81	9	11.0	-88	9.8	9.4	J
64	-88°	74	8	56.6	-88	2.7	8.5	J
65	-87°	147	9	25.5	-87	44.9	9.0	J
66	-87°	151	9	42.5	-87	44.1	7.6	J
67	-88°	92	10	16.7	-88	2.4	8.9	v
68	-88°	99	10	38.8	-88	2.3	8.5	v
69	-87°	161	10	20.1	-87	44.9	9.2	J
70	-87°	170	10	46.9	-87	30.0	9.4	v
71	-87°	155	9	56.7	-87	24.1	9.4	J
72	-87°	157	10	1.3	-87	21.8	9.2	v
73	-87°	138	9	2.6	-87	16.6	7.3	v
74	-87°	129	8	32.2	-87	32.4	9.2	J
75	-87°	123	8	8.1	-87	20.7	8.8	J
76	-87°	125	8	10.9	-87	13.1	8.9	J
77	-87°	126	8	14.1	-87	9.1	9.0	v
78	-87°	121	7	59.6	-87	8.3	8.9	J
79	-86°	345	17	1.2	-86	54.2	10.2	v
80	-86°	340	16	50.2	-86	35.5	9.8	J
81	-86°	339	16	46.1	-86	37.4	9.5	v

Could made out

~~-85° 50~~ magn. 9.7 superposed

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

Saturday, Sept. 16, 1911.

B22578 short disp.

No.	Int.	Class	Remarks
82	8	H2	
83	2	H0	
84	7	A2	
85	10+	A0	
86	9	A0	
87	7	H5	
88	5	K0	
89	4	H2	
90	2	H5	
91	3	H5	
92	3	K0	Another star partly superposed.
93	6	H1	
94	3	K0	
95	3	K5	
96	4	K0	
97	5	K5	
98	3	A0	
99	5	H0	
Time: 10. 44 100	4	K3	

82	-86°	338	16	44.0	-86	44.3	8.2 ✓
83	-86°	335	16	31.4	-86	36.9	9.8 ✓
84	-85°	453	16	25.0	-85	59.0	8.2 ✓
85	-86°	333	16	14.8	-86	7.2	5.9 ✓
86	-86°	361	18	22.0	-86	9.1	8.3 ✓
87	-86°	357	18	0.5	-86	16.0	8.5 ✓
88	-85°	478	17	54.9	-85	45.5	8.4 ✓
89	-86°	352	17	42.0	-86	2.2	9.0 ✓
90	-86°	355	17	52.0	-86	14.6	9.3 ✓
91	-86°	353	17	43.6	-86	18.4	9.0 ✓
92	-86°	358	18	1.5	-86	35.0	9.3 ✓
93	-86°	351	17	40.3	-86	41.0	8.6 ✓
94	-86°	349	17	20.0	-86	34.9	9.3 ✓
95	-86°	348	17	16.2	-86	35.2	9.3 ✓
96	-86°	347	17	13.7	-86	2.5	9.1 ✓
97	-85°	463	17	11.4	-85	45.0	9.0 ✓
98	-85°	459	16	56.9	-85	54.6	9.3 ✓
99	-86°	343	16	55.8	-86	0.6	9.0 ✓
100	-86°	344	16	57.6	-86	11.1	9.1 ✓

Identified by J.C.M. April 3, 1913.
Checked by A.M.C. April 3, 1913
cards made out by M. C. W.
Cards checked by E.R.B.

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

Monday Nov. 18, 1913.

Time: 11.~~57~~58

13205.81 chart disp.

No.	Int.	Class	Remark
1	7	A0	
2	5	F0	
3	2	F8	
4	4	F0	
5	9	B9	
6	5	A0	
7	6	A2	
8	3	G5	
9	6	~~F~~K	
10	4	A2	
11	2	A2	
12	2	A0	
13	6	B	E.
13a	1	A	E.
14	1	A	E.
15	1	A	E.
16	2	G5	E.
17	2	A0	
18	5	F0	
19	2	A0	
20	3	A	Partly superposed on 21.
21	4	F0	
22	3	F5	
23	2	A	
24	7	K2	
25	6	A5	
26	2	A	Three prom.
27	8	K2	

1	−10°	1321	5	49.7	−10	39.7	8.0	∧ I
2	−10°	1325	5	50.3	−10	52.6	7.8	∧ I
3	−10°	1327	5	50.7	−10	50.4	9.0	∧ I
4	−10°	1331	5	51.5	−10	53.6	8.5	∧ J
5	−10°	1332	5	51.7	−10	51.8	8.0	∧ J
6	−11°	1345	5	57.8	−11	3.6	8.5	∧ J
7	−11°	1346	5	52.0	−11	16.3	9.0	∧ I
8	−11°	1342	5	51.5	−11	26.1	9.2	∧ I
9	−11°	1326	5	49.1	−11	41.0	8.5	∧ J
10	−11°	1328	5	49.4	−11	41.9	9.0	∧ J
11	−11°	1323	5	48.2	−11	20.8	8.9	∧ J
12	−11°	1325	5	48.8	−11	15.5	9.3	∧ V
13	−11°	1320	5	47.8	−11	51.1	8.5	J
13a	−10°	1318	5	48.9	−10	53.2	9.0	∧ V
14	−11°	1327	5	49.1	−11	57.1	9.3	∧ J
15	−11°	1329	5	49.4	−11	58.4	9.4	∧ I
16	−11°	1333	5	50.1	−11	47.2	9.0	∧ J
17	−11°	1336	5	50.5	−11	50.8	9.1	∧ J
18	−12°	1325	5	51.5	−12	11.7	8.5	∧ I
19	−12°	1321	5	51.1	−12	36.2	9.3	∧ I
20	−12°	1323	5	51.3	−12	46.1	9.2	∧ J
21	−12°	1324	5	51.3	−12	49.6	9.0	∧ V
22	−12°	1319	5	50.8	−12	58.9	9.0	∧
23	−12°	1309	5	50.4	−13	17.4	9.5	∧ I
24	−12°	1332	5	52.7	−12	50.7	8.4	∧ J
25	−12°	1333	5	52.7	−12	43.1	9.1	∧ /
26	−12°	1336	5	53.4	−12	40.5	9.0	∧ J
27	−12°	1340	5	53.8	−12	10.2	8.5	∧ J

cards made out

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

Monday, Nov. 18, 1912.

B 20581 short exp.

Nr.	Int.	Class	Remark
28	2	I_{20}	
29	4	I_{15}	
30	2	I_{18}	
31	5	I_{20}	
32	8	A_5	
33	5	A_2	
34	9	A_0	
35	2	I_{25}	
36	10	A_0	
37	2	I_{25}	
38	6	A_2	
39	7	A_3	
40	2	I_{20}	
41	1	I_{20}	
42	5	I_{15}	
43	2	I_{18}	
44	4	A_0	
45	2	A_3	
46	4	A_0	
47	9	A_0	
48	8	I_{10}	
49	4	I_{10}	
50	3	I_{15}	
51	2	I_{20}	
52	2	A_5	
53	6	A_5	
54	5	I_{15}	

28	−12°	1330	5	52.5	−12	20.8	9.0	^v
29	−11°	1349	5	52.8	−11	42.7	9.0	^v
30	−11°	1351	5	53.0	−11	40.0	9.0	^J
31	−11°	1357	5	54.5	−11	42.4	9.0	^J
32	−12°	1347	5	55.0	−12	1.6	8.5	^v
33	−12°	1359	5	55.9	−12	10.0	9.0	^v
34	−11°	1366	5	56.3	−11	53.2	8.5	^v
35	−14°	1361 1400	5	56.4 ~~3.0~~	−12	7.5 ~~26.7~~	9.8	^J
36	−13°	1368	5	56.1	−11	20.6	8.0	^v
37	−11°	1364	5	56.2	−11	9.5	9.0	^J
38	−11°	1375	5	57.9	−11	28.2	9.0	^v
39	−12°	1366	5	58.3	−12	19.0	9.0	^J
40	−12°	1369	5	59.2	−12	18.8	9.5	^J
41	−12°	1373	5	59.5	−12	32.6	9.8	^J
42	−12°	1375	5	59.6	−12	30.6	8.8	^J
43	−12°	1374	5	59.6	−12	47.1	9.7	^J
44	−12°	1376	5	59.9	−12	49.6	9.0	^J
45	−12°	1378	6	0.1	−12	33.6	9.4	^v
46	−12°	1380	6	0.3	−12	41.1	9.3	^J
47	−11°	1383	6	0.0	−11	56.6	9.0	^J
48	−12°	1379	6	0.2	−12	2.8	8.0	^J
49	−12°	1382	6	0.6	−12	11.8	9.0	^J
50	−12°	1384	6	0.9	−12	1.1	8.5	^J
51	−11°	1387	6	0.2	−11	37.8	9.0	^v
52	−11°	1388	6	0.3	−11	32.9	9.5	^v
53	−11°	1382	5	59.4	−11	31.3	9.0	^J
54	−10°	1374	5	59.4	−10	52.3	8.5	^v

Conds made out

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

Monday, Oct. 18, 1915.

B 20581 about disp.

Nr.	Int.	Class	Remark
55	3	Gp	
56	3	A2	
57	3	Gp	
58	4	Gp	
59	5	Fp	
60	1	Gp	
61	1	A2	
62	3	Fp	Another star superposed at south.
63	2	A0	
64	2	F8	
65	2	F8	
66	2	G5	
67	1	A5	
68	1	Gp	
69	4	A	E.
70	6	A	E.
71	5	F	E.
72	7	Gp	
73	3	Fp	
74	4	Fp	
75	3	A2	
76	8	A0	
77	2	F8	
78	1	Fp	
79	6	Fp	
80	10+	F	
81	2	A0	

55	−10°	1366	5	58.3	−10	59.1	9.2	^v
56	−10°	1367	5	58.6	−10	38.1	9.2	^v
57	−10°	1364	5	58.1	−10	34.1	9.0	^v
58	−10°	1365	5	58.2	−10	17.1	9.0	^ v
59	−10°	1361	5	57.7	−10	2.8	8.5	^v
60	−11°	1372	5	57.4	−11	9.4	9.2	^v
61	−11°	1371	5	57.3	−11	3.2	9.6	^v
62	−11°	1367	5	56.8	−11	6.7	9.2	^v −11° 1368 Superposed magn. 9.4
63	−10°	1358	5	56.5	−10	41.2	9.2	^v
64	−10°	1355	5	55.8	−10	25.6	9.0	^ v
65	−10°	1352	5	55.4	−10	44.0	9.0	^v
66	−11°	1359	5	54.8	−11	2.5	8.8	^v
67	−11°	1358	5	54.6	−11	1.6	9.5	^v
68	−10°	1345	5	54.5	−10	41.2	9.0	^v
69	−10°	1347	5	54.5	−10	8.3	9.0	^v
70	−10°	1344	5	54.2	−10	3.7	8.5	^v
71	−10°	1343	5	53.9	−10	11.3	8.8	^v
72	−9°	1321	5	58.3	−9	16.5	8.2	^v
73	−9°	1326	5	59.1	−9	21.0	9.0	^v
74	−8°	1317	5	59.3	−8	53.5	9.0	^v
75	−8°	1322	5	59.8	−8	41.3	9.4	^v
76	−8°	1324	6	0.8	−8	38.2	8.5	^v
77	−9°	1328	5	59.3	−9	35.9	9.2	^v
78	−9°	1327	5	59.3	−9	48.0	9.2	^v
79	−9°	1333	6	0.1	−9	43.2	8.4	^v
80	−10°	1368	6	58.6	−10	13.9	6.2	^ v
81	−10°	1372	5	59.1	−10	11.6	9.0	^v

Cards made out

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

Thursday, Nov. 18, 1915.

B 20581 short disp.

Nr.	Int.	Class	Remark
82	6	Bp	
83	4	A0	
84	1	fp	
85	1	fp	
86	1	A	
87	7	A0	
88	5	A3	
89	4	A3	
90	3	fp	
91	8	A2	
92	4	Fp	Another star superposed at north.
93	6	fp	
94	3	A2	
95	3	fp	
96	1	F ~~A~~	~~Nearly~~ all ~~Partly~~ superposed on 95.
97	6	Fp	
98	5	A0	
99	5	Fp fp	
100	2	A	
101	7	A0	
103	7	Fp?	Another star superposed on pr. side?
103	1	Np	
104	3	Bp	
105	6	Bp	
106	2	A0	
107	6	Np	
108	3	Fp	

82	−10°	1377	6	0.0	−10	15.2	9.0	∧ ∨
83	−11°	1359	6	0.4	−11	3.0	9.2	∧ ∨
84	−10°	1382	6	0.9	−10	38.8	9.3	∧ ∨
85	−10°	1379	6	0.3	−10	35.7	9.5	∧ ∨
86	−10°	1376	5	59.9	−10	28.1	9.5	∧ ∨
87	−10°	1386	6	1.3	−10	33.0	7.8	∧ ∨
88	−10°	1389	6	1.4	−10	25.8	8.5	∧ ∨
89	−10°	1393	6	2.3	−10	30.7	9.0	∧ ∨
90	−10°	1394	6	2.4	−10	9.7	8.5	∧ ∨
91	−9°	1343	6	2.1	−9	37.7	8.0	∧ ∨
92	−9°	1338	6	1.0	−9	26.3	8.2	∧ ∨ magn. 9.0 −9° 1337 Superposed
93	−9°	1345	6	2.4	−9	7.0	8.5	∧ ∨
94	−9°	1346	6	2.4	−9	31.2	9.0	∧ ∨
95	−9°	1347	6	2.9	−9	25.4	8.5	∧ ∨
96	−9°	1348	6	3.0	−9	24.1	9.4	∧ ∨
97	−9°	1349	6	3.5	−9	19.7	8.5	∧ ∨
98	−8°	1338	6	3.5	−8	57.4	8.8	∧ ∨
99	−9°	1353	6	3.9	−9	13.2	9.0	∧ ∨
100	−9°	1356	6	4.1	−9	11.0	9.5	∧ ∨
101	−9°	1359	6	4.4	−9	36.5	8.0	∧ ∨
102	−9°	1352	6	3.9	−9	49.6	8.6	∧ ∨ magn. 9.0 −9° 1351 Superposed
103	−10°	1401	6	3.0	−10	10.6	9.0	∧ ∨
104	−10°	1402	6	3.5	−10	24.9	9.0	∧ ∨
105	−10°	1407	6	4.2	−10	44.9	8.5	∧ ∨
106	−10°	1410	6	4.7	−10	35.1	9.4	∧ ∨
107	−10°	1411	6	4.8	−10	13.0	7.3	∧ ∨
108	−10°	1413	6	5.2	−10	50.3	9.0	∧ ∨

cards made out

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

Monday. Nov. 18, 1912.

B20581 short disp.

No.	Int	Class	Remark
109	2	Ao	
110	5	Jo	
111	2	Ao	
112	4	J2	
113	3	F8	
114	7	F2	
115	6	A5	
116	3	A2	
117	6	B9	Another star superposed?
118	5	F0	
119	2	F5	
120	3	G0	
121	7	A3	
122	10	A2	
123	3	A3	
124	2	A2	Partly superposed on 123.
125	2	J0	
126	4	F5	
127	7	B9	
128	2	Ao	
129	2	A2	
130	2	Ao	
131	4	Ao	
132	4	F2	
133	4	J0	
134	7	J0	
135	4	J2	

109	−10°	1414	6	5.5	−10	28.9	9.2	∧ J
110	−10°	1416	6	5.6	−10	27.5	7.8	∧ J
111	−10°	1417	6	5.7	−10	18.7	9.7	∧ J
112	−10°	1419	6	6.0	−10	15.7	7.5	∧ J
113	−10°	1424	6	6.5	−10	17.6	9.0	∧ J
114	−10°	1423	6	6.5	−10	36.4	7.8	∧ J
115	−10°	1426	6	6.8	−10	46.7	8.7	∧ J
116	−10°	1428	6	7.0	−10	46.5	9.1	∧ J
117	−11°	1420	6	7.2	−11	8.7	8.7	∧ J 11°
118	−11°	1425	6	8.1	−11	6.3	8.5	∧ J
119	−11°	1424	6	8.1	−11	14.4	9.3	∧ V
120	−11°	1426	6	8.2	−11	45.5	8.8	∧ J
121	−11°	1427	6	8.5	−11	52.3	8.7	∧ J
122	−11°	1429	6	8.6	−11	51.3	6.8	∧ I
123	−11°	1428	6	8.6	−11	35.6	8.8	∧ J
124	−11°	1430	6	8.7	−11	37.6	9.2	∧ J
125	−11°	1432	6	9.0	−11	32.4	9.2	∧ J
126	−11°	1437	6	9.7	−11	6.0	8.8	∧ J
127	−10°	1443	6	8.9	−10	47.5	8.4	∧ V
128	−10°	1441	6	8.7	−10	48.6	9.3	∧ V
129	−10°	1440	6	8.5	−10	37.0	9.4	∧ J
130	−10°	1442	6	8.8	−10	59.8	9.6	∧ J
131	−10°	1444	6	9.1	−10	12.9	9.0	∧ J
132	−10°	1445	6	9.2	−10	7.2	8.9	∧ J
133	−9°	1385	6	8.6	−9	48.3	8.3	∧ J
134	−9°	1395	6	9.5	−9	53.6	8.2	∧ I
135	−10°	1448	6	10.0	−10	1.2	8.4	∧ I

cards made out

11° mag. 9.1 1419 superposed

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

Monday, Nov. 18, 1918.

B20581 short diffs.

hrs	Int	Class	Remarks
136	5	Ao	
137	3	Bg	
138	3	Go	
139	4	Ko	
140	2	Gf	
141	2	Fs	
142	5	Gs	
143	3	Ao	
144	3	Fs	
145	3	Ko	
146	2	Gf	
147	3	Fo	
148	2	Fo	
149	1	Ko	
150	2	Go	
151	2	Gs	
152	3	Fs	
153	5	Ko	
154	2	Gs	
155	3	Ao	
156	6	Ko	
157	7	Ao	
158	3	Ko	
159	3	F8	
160	5	F8	Another star faintly superposed.
161	4	Ao	
162	5	Fo	

136	−10°	1431	b	7.5	−10	1.8	8.5
137	−10°	1434	b	7.9	−10	11.1	9.0
138	−9°	1374	b	6.4	−9	51.4	9.0
139	−9°	1366	b	5.5	−9	41.5	8.8
140	−9°	1368	b	5.5	−9	29.1	9.0
141	−9°	1372	b	6.0	−9	30.9	9.3
142	−9°	1373	b	6.3	−9	2.9	8.3
143	−8°	1342	b	5.3	−8	46.4	9.0
144	−8°	1345	b	5.7	−8	51.1	9.0
145	−8°	1355	b	6.8	−8	37.6	8.8
146	−9°	1376	b	6.7	−9	9.8	9.1
147	−8°	1358	b	7.4	−8	58.5	9.0
148	−9°	1378	b	7.1	−9	45.1	9.0
149	−9°	1381	b	7.8	−9	26.0	9.0
150	−9°	1384	b	8.6	−9	22.1	9.0
151	−9°	1388	b	8.7	−9	25.1	9.0
152	−9°	1386	b	8.6	−9	32.1	9.0
153	−9°	1390	b	9.2	−9	32.7	8.7
154	−9°	1397	b	9.7	−9	35.2	9.2
155	−9°	1399	b	9.9	−9	36.4	9.1
156	−9°	1402	b	10.5	−9	35.2	8.5
157	−9°	1404	b	11.0	−9	55.8	8.8
158	−10°	1461	b	11.3	−10	11.1	8.7
159	−10°	1463	b	11.5	−10	8.7	9.1
160	−10°	1467	b	11.9	−10	19.2	8.9
161	−10°	1468	b	12.0	−10	13.1	9.0
162	−10°	1472	b	12.7	−10	11.4	8.8

cards made out

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

Monday, Nov. 18, 1912.

B2058: short exps.

No.	Int.	Class	Remark
163	4	B8	
164	7	A2	
165	2	A	Nearly all superposed on 164.
166	5	A0	
167	9	A2	
168	4	F0	
169	3	G5	
170	5	A5	
171	4	A0	
172	9	A2	
173	7	G5	
174	2	G	Nearly all superposed on 175.
175	2	F2	6 then stars superposed.
176	3	A2	
177	6	F0	
178	10	F2	
179	2	F5	
180	4	F2	
181	4	A0	
182	3	A2	
183	2	G0	Partly superposed on 182.
184	3	F5	
185	5	B3	
186	3	F5	
187	6	A2	
188	8	F5	
189	5	F0	

163	−10°	1478 6	13.2	−10	34.6 / 40.0	8.5 / 9.2	∧ ∨
164	−10°	1483	6	13.6	−10	22.0	8.7 ∧ ∨
165	−10°	1484	6	13.6	−10	23.1	9.2 ∧ ✓
166	−10°	1485	6	13.8	−10	1.8	8.6 ∧ ∨
167	−9°	1423	6	13.8	−9	50.4	7.2 ∧ ∨
168	−10°	1493	6	14.9	−10	3.5	8.5 ∧ ∨
169	−10°	1491	6	14.5	−10	27.6	8.5 ∧ ∨
170	−11°	1461	6	14.8	−11	0.6	8.7 ∧ ✓
171	−11°	1449	6	12.8	−11	0.3	8.9 ∧ ∨
172	−10°	1481	6	13.5	−10	49.2	7.3 ∧ ✓
173	−10°	1479	6	13.4	−10	40.0	8.0 ∧ ∨
174	−10°	1488	6	14.1	−10	29.1	9.0 ∧ ∨
175	−10°	1489	6	14.2	−10	31.5	9.0 ∧ ∨
176	−11°	1437	6	10.2	−11	22.3	9.2 ∧ ∨
177	−11°	1438	6	10.6	−11	19.9	8.5 ∧ ✓
178	−11°	1436	6	10.0	−11	59.7	7.0 ∧ ✓
179	−12°	1428	6	10.3	−12	11.9	8.8 ∧ ∨
180	−12°	1437	6	11.7	−12	3.0	9.0 ∧ ∨
181	−11°	1444	6	12.0	−11	32.3	9.0 ∧ ∨
182	−11°	1446	6	12.4	−11	51.7	9.1 ∧ ✓
183	−11°	1447	6	12.4	−11	48.4	9.3 ∧ ∨
184	−11°	1451	6	13.0	−11	55.5	9.1 ∧ ∨
185	−12°	1445	6	13.4	−12	1.4 / 0.4	9.3 ∧ ✓ −12°1W16 0.4 8.3 b 18.N − superposed
186	−11°	1458	6	14.3	−11	37.1	8.8 ∧ ✓
187	−11°	1457	6	14.2	−11	47.0	8.9 ∧ ∨
188	−11°	1459	6	14.3	−11	45.3	6.8 ∧ ∨
189	−12°	1452	6	14.7	−12	4.4	8.4 ∨

cards made out

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

Monday, Nov. 18, 1912.

B20581 short disp.

No.	Int.	Class	Remark
190	3	Ky5	
191	4	Z2	
192	7	A3	
193	2	M0	
194	3	A3	
195	4	Z0	
196	5	Z8	
197	4	A0	
198	5	B9	
199	4	Z2	
200	5	Z0	
201	3	K5	
202	3	Z5	
203	6	Z5	
204	5	Z5	
205	4	A3	Partly superposed on 206.
206	5	B9	
June 12.38 Nov. 20 Time 10.46	207	18	B9
	208	1	A Partly superposed on 207.
	209	4	M0
	210	1	K5
	211	2	K5
	212	4	M0
	213	6	Z0
	214	6	B9
	215	2	A0
	216	4	M0

190	−12°	1420	6	8.1	−12	17.8	9.0 ∧ J
191	−12°	1421	6	8.6	−12	32.0	8.9 ∧ J
192	−12°	1419	6	8.0	−12	50.4	8.5 ∧ V
193	−13°	1406	6	8.3	−13	5.1	9.2 ∧ V
194	−13°	1407	6	8.6	−13	16.7	9.4 ∧ J
195	−13°	1409	6	8.8	−13	18.5	9.2 ∧ J
196	−13°	1408	6	8.7	−13	26.1	9.0 ∧ V
197	−13°	1414	6	9.5	−13	3.0	9.2 ∧ V
198	−12°	1431	6	10.8	−12	59.2	9.0 ∧ V
199	−12°	1422	6	9.1	−12	40.7	8.8 ∧ V
200	−12°	1423	6	9.2	−12	41.4	8.8 ∧ J
201	−12°	1434	6	11.5	−12	54.7	9.0 ∧ J
202	−12°	1436	6	11.5	−12	28.0	9.1 ∧ J
203	−12°	1438	6	11.8	−12	30.7	8.7 ∧ V
204	−12°	1439	6	12.0	−12	37.6	8.8 ∧ J
205	−12°	1440	6	12.2	−12	23.4	9.2 ∧ J
206	−12°	1441	6	12.3	−12	29.0	9.0 ∧ J
207	−12°	1442	6	12.6	−12	28.5	8.0 ∧ J
208	−12°	1443	6	12.7	−12	30.5	9.5 ∧ J
209	−11°	1413	6	5.9	−11	9.3	8.5 ∧ V
210	−11°	1412	6	5.8	−11	3.3	9.3 ∧ J
211	−11°	1410	6	5.5	−11	28.6	9.1 ∧ V
212	−11°	1409	6	5.2	−11	54.5	8.7 ∧ V
213	−12°	1407	6	5.5	−12	13.9	8.8 ∧ V
214	−12°	1410	6	6.0	−12	27.2	9.0 ∧ J
215	−12°	1413	6	6.6	−12	37.5	9.4 ∧ J
216	−12°	1408	6	5.6	−12	43.7	9.0 ∧ V

cards made out

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

Wednesday. Nov. 20, 1912.

B 20 5 81 about disp.

No.	Int.	Class	Remark
217	8	$\frac{1}{2}$2	
218	5	Q3	
219	3	$\frac{1}{2}$0	
220	2	$\frac{1}{2}$2	
221	5	$\frac{1}{2}$0	
222	3	Q0	
223	5	$\frac{1}{2}$0	
224	7	$\frac{1}{2}$0	
225	1	$\frac{1}{2}$5	
226	1	$\frac{1}{2}$2	
227	3	Q5	
228	2	$\frac{1}{2}$5	
229	1	$\frac{1}{2}$0	
230	10	Q2	
231	5	$\frac{1}{2}$0	
232	4	$\frac{1}{2}$5	
233	5	$\frac{1}{2}$5	
234	1	$\frac{1}{2}$	
235	1	$\frac{1}{2}$5	
236	1	$\frac{1}{2}$5	
237	1	Q	Partly superposed on 236.
238	1	$\frac{1}{2}$0	
239	5	Q0	
240	4	Q5	
241	3	$\frac{1}{2}$0	
242	10	$\frac{1}{2}$0	
243	4	Q0	

217	−12°	1405	6	5.0	−12	34.1	8.5 ∧ v
218	−12°	1402	6	4.4	−12	47.9	9.0 ∧ J
219	−13°	1384	6	5.5	−13	6.9	8.9 ∧ v
220	−13°	1380	6	5.1	−13	11.5	8.7 ∧ J
221	−13°	1378	6	5.0	−13	2.6	8.6 ∧ ı
222	−13°	1872	6	3.8	−13	6.9	9.5 ∧ ı
223	−12°	1396	6	3.2	−12	31.3	8.5 ∧ v
224	−11°	1404	6	3.7	−11	50.1	8.5 ∧ v
225	−11°	1405	6	4.3	−11	44.9	9.5 ∧ ı
226	−11°	1408	6	4.9	−11	49.8	9.4 ∧ ı
227	−11°	1403	6	3.6	−11	4.8	9.1 ∧ ı
228	−10°	1395	6	2.4	−10	46.0	9.0 ∧ J
229	−10°	1391	6	1.9	−10	58.4	9.0 ∧ v
230	−11°	1393	6	1.6	−11	7.5	7.2 ∧ v
231	−11°	1392	6	1.6	−11	27.5	9.0 ∧ J
232	−11°	1395	6	2.4	−11	31.6	8.6 ∧ J
233	−11°	1396	6	2.6	−11	39.6	9.0 ∧ ı
234	−11°	1398	6	2.8	−11	37.3	9.7 ∧ J
235	−11°	1400	6	3.0	−11	25.7	9.5 ∧ J
236	−11°	1397	6	2.6	−11	56.2	9.0 ∧ J
237	Approx pos. 1855 — Not in Cat.		6	2.7	−12	0	J
238	−12°	1393	6	2.5	−12	8.2	9.5 ∧ v
239	−12°	1394	6	2.8	−12	36.9 / 37.0	8.5 / 7.0 ∧ J
240	−12°	1392	6	2.4	−12	56.8	9.1 ∧ J
241	−13°	1365	6	2.2	−13	4.4	9.0 ∧ J
242	−13°	1366	6	2.6	−13	12.0	8.0 ∧ J
243	−13°	1367	6	2.8	−13	37.3	9.0 ∧ J

cards made out

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

Wednesday, Nov. 20, 1912.

B 20581 short disp.

No.	Int.	Class	Remark
244	3	Q2	
245	9	F0	
246	10	F	
247	11	F0	
248	1	F5	
249	2	Q2	
250	1	Q	
251	4	F0	
252	3	G5	
253	10	K3	
254	7	K3	
255	2	G5	
256	3	F0	
257	3	Q2	
258	3	Q2	
259	3	G0	
260	4	Q3	
261	4	Q5	
262	3	Q0	
263	3	F0	
264	6	K3	
265	2	F0	
266	2	Q2	
267	5	K3	
268	1	G5	
269	2	Q0	
270	4	G5	

244	−13°	1369	6	3.2	−13	53.4	9.5 ^ ^
245	−14°	1347	6	2.6	−14	2.6	8.2 ^ ^
246	−14°	1348	6	3.0	−14	33.5	7.0 ^ ^
247	−14°	1350	6	3.3	−14	31.3	9.5 ^ ^
248	−14°	1353	6	3.6	−14	31.7	9.3 ^ ^
249	−14°	1355	6	3.9	−14	19.6	10 ^ ^
250	−14°	1358	6	4.3	−14	5.2	9.8 ^ ^
251	−13°	1375	6	4.4	−13	45.9	8.8 ^ ^
252	−13°	1383	6	5.5	−13	34.9	9.0 ^ ^
253	−13°	1387	6	5.8	−13	35.6	7.5 ^ ^
254	−13°	1359	6	5.3	−13	25.3	8.2 ^ ^
255	−14°	1361	6	5.7	−14	37.4	9.3 ^ ^
256	−14°	1363	6	6.1	−14	32.1	9.3 ^ ^
257	−14°	1366	6	6.9	−14	28.4	9.3 ^ ^
258	−13°	1388	6	6.1	−13	57.8	9.4 ^ ^
259	−13°	1393	6	6.7	−13	59.2	9.3 ^ ^
260	−13°	1394	6	6.8	−13	58.2	9.3 ^ ^
261	−14°	1367	6	6.9	−14	0.2	9.1 ^ ^
262	−13°	1391	6	6.5	−13	43.0	9.5 ^ ^
263	−13°	1392	6	6.7	−13	38.5	9.1 ^ ^
264	−13°	1397	6	6.9	−13	32.4	8.8 ^ ^
265	−13°	1398	6	6.9	−13	26.1	9.0 ^ ^
266	−13°	1398	6	6.9	−13	40.1	9.8 ^ ^
267	−13°	1396	6	6.8	−13	43.9	9.0 ^ ^
268	−14°	1370	6	7.7	−14	8.0	9.6 ^ ^
269	−14°	1373	6	8.5	−14	36.0	9.8 ^ ^
270	−14°	1379	6	9.3	−14	33.1	9.0 ^ ^

cards made out

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

Wednesday Nov. 20, 1912.

B20581 short exp.

No.	Int	Class	Remark
271	2	A0	
272	2	A	Other stars superposed.
273	3	F8	
274	4	F5	
275	1	G5	
276	4	A0	
277	1	G5	
278	2	A5	
279	5	A0	
280	3	F0	
281	8	A0	
282	8	A0	
283	6	G5	
284	2	F0	Partly superposed on 283.
285	10	F	
286	4	A2	
287	4	A2	
288	2	A0	
289	6	B9	
290	4	F0	
291	7	A2	H 8. + H 6 of another star superposed.
292	2	G5	
293	1	G5	
294	3	G5	
295	3	G0	
296	2	A3	
297	4	A	Another star superposed.

271	−14°	1380	6	9.4	−14	1.4	9.7	^ ı
272	−14°	1382	6	9.5	−14	0.7	9.5	^ ı
273	−13°	1417	6	9.7	−13	56.1	9.2	^ ı
274	−13°	1419	6	9.9	−13	49.3	9.0	^ ı
275	−13°	1420	6	10.0	−13	56.2	9.2	^ ı
276	−13°	1424	6	10.7	−13	40.0	9.4	^ ı
277	−13°	1423	6	10.6	−13	17.0	9.5	^ ı
278	−13°	1433	6	11.7	−13	11.4	9.1	^ ı
279	−14°	1393	6	11.4	−14	9.9	9.0	^ ı
280	−14°	1395	6	11.6	−14	16.4	9.0	^ ı
281	−14°	1397	6	12.0	−14	18.3	8.6	^ ı
282	−14°	1396	6	11.9	−14	32.6	8.2	^ ı
283	−14°	1399	6	12.2	−14	47.2	8.3	^ ı
284	−14°	1398	6	12.1	−14	52.3	9.0	^ ı
285	−14°	1400	6	12.3	−14	58.3	6.5	^ ı
286	−14	1403	6	12.9	−14	36.5	8.9	^ ı
287	−14°	1402	6	12.9	−14	16.6	9.1	^ ı
288	−14°	1406	6	13.4	−14	12.0	9.8	^ ı
289	−14°	1409	6	13.9	−14	8.0	8.5	^ ı
290	−13°	1454	6	14.1	−13	46.4	9.0	^ ı
291	−13°	1443	6	13.0	−13	29.6	8.5	−13° 1444 Superposed magn. 9.0
292	−13°	1441	6	12.9	−13	36.6	9.1	^ ı
293	−13°	1438	6	12.4	−13	33.8	9.2	^ ı
294	−13°	1452	6	13.6	−13	11.1	9.1	^ ı
295	−13°	1456	6	14.7	−13	37.0	9.0	^ ı
296	−13°	1458	6	15.0	−13	46.7	9.5	^ ı
297	−13°	1459	6	15.1	−13	35.5	9.5	^ ı −13° 1460 Superposed magn. 9.5

cards made out

Seerhart pl. B 27037

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

Wednesday Nov. 20, 1912.

B 20581 about 1 deg.

No.	Int	Class	Remarks
298	4	A5	
299	5	F0	
300	5	F8	
301	1	P	
302	2	A2	
303	3	G0	
304	2	F	
305	3	F0	
306	4	A0	
307	6	G0	
308	3	A0	
309	4	A2	
310	2	G5	
311	2	K2	
312	5	K2	
313	4	Ma	
314	2	G0	
315	5	G5	
316	4	K5	
317	3	A3	
318	5	A0	
319	3	F0	
320	3	A2	
321	2	Ma	
322	3	F8	
323	4	K0	
324	4	A0	

298	−13°	1462	6	15.3	−13	30.1	9.0 ∧∨
299	−13°	1464	6	15.4	−13	16.6	8.4 ∧∣
300	−12°	1457	6	15.8	−12	53.2	8.5 ∧J
301	−12°	1453	6	15.0	−12	55.1	9.6 ∧J
302	−12°	1451	6	14.7	−12	37.2	9.8 ∧∣
303	−12°	~~1448~~ 1450	6	14.4	−12	~~40.0~~ 36.6	9.5 ∧J
304	−12°	1449	6	14.5	−12	15.4	9.6 ∧∨
305	−12°	1462	6	16.4	−12	54.3	9.1 ∧J
306	−12°	1463	6	16.9	−12	40.5	9.0 ∧J
307	−12°	1464	6	17.0	−12	30.2	8.5 ∧∣
308	−12°	1465	6	17.1	−12	39.5	9.5 ∧∨
309	−13°	1477	6	17.3	−13	8.1	9.0 ∧∨
310	−13°	1475	6	16.7	−13	33.8	9.1 ∧J
311	−13°	1472	6	16.3	−13	53.7	9.2 ∧J
312	−14°	1424	6	16.8	−14	4.9	8.5 −14° 1425 Superposed. Nebs. 9.2
313	−13°	1457	6	14.7	−13	58.5	8.2 ∧∨
314	−14°	1410	6	14.4	−14	1.2	9.3 ∧J
315	−14°	1412	6	14.6	−14	14.5	8.2 ∧J
316	−14°	1415	6	15.1	−14	20.3	8.7 ∧∨
317	−14°	1414	6	15.0	−14	37.6	9.1 ∧∣
318	−14°	1418	6	15.5	−14	31.6	8.8 ∧J
319	−15°	1346	6	13.3	−15	0.7	8.9 ∧J
320	−15°	1347	6	13.3	−15	29.8	9.3 ∧J
321	−15°	1342	6	12.4	−15	20.7	9.0 ∧J
322	−15°	1338	6	12.0	−15	19.4	9.1 ∧J
323	−15°	1335	6	11.1	−15	24.3	8.6 ∧∣
324	−15°	1334	6	11.1	−15	32.3	9.4 ∧∨

cards made out

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

~~Nov.~~ Wednesday Nov. 20, 1912.
B 20581 shot disp.

No.	Int.	Class	Remark
325	5	Jf0	
326	5	a	Poor focus.
327	6	fg0	
328	4	a	
329	3	fg0	
330	1	Jf2	
331	10+	f	Burned out.
332	1	a	
333	4	Jf5	
334	7	Jf0	
335	5	a0	
336	6	Jf0	
337	7	a3	
338	3	a0	
339	2	fg0	
340	2	fg0	
341	1	Jf2	
342	2	fg0	
343	3	Jf0	
344	2	fg5	
345	3	fg5	
346	4	Jf5	
347	10	f3g	
348	4	Jf2	
349	3	Jf0	
350	10	f0	
351	1	f0	

325	−14°	1297	5	52.2	−14	12.8	8.6 ^ ∫
326	−13°	1316	5	53.4	−13	58.5	9.0 ^ ∫
327	−14°	1302	5	53.6	−14	11.3	8.6 ^ J
328	−14°	1304	5	53.8	−14	1.7	9.0 ^ V
329	−13°	1318	5	54.1	−13	17.0	9.0 ^ ∫
330	−13°	1319	5	54.2	−13	13.0	9.2 ^ J
331	−12°	1337	5	53.6	−12	54.3	6.0 ^ ∫
332	−12°	1341	5	53.9	−12	56.5	9.2 ^ ∫
334	−12°	1348	5	55.3	−12	31.1	9.0 ^ ∫
335	−13°	1321	5	54.6	−13	1.9	8.2 ^ ∫
336	−13°	1324	5	55.1	−13	3.4	9.0 ^ V
337	−13°	1327	5	55.6	−13	2.1	8.5 ^ V
338	−12°	1357	5	55.9	−12	57.7	8.7 ^ J
339	−13°	1329	5	55.7	−13	11.5	9.5 ^ J
340	−12°	1346	5	55.4	−12	39.4	9.7 ^ J
340	−12°	1353	5	55.7	−12	44.2	9.0 ^ ∫
342	−12°	1355	5	55.7	−12	22.1	9.5 ^ V
343	−12°	1354	5	55.7	−12	33.4	9.6 ^ ∫
343	−12°	1362	5	56.6	−12	39.8	9.5 ^ ∫
344	−12°	1368	5	58.6	−12	58.5	9.4 ^ ∫
345	−13°	1345	5	58.4	−13	9.3	9.3 ^ J
346	−13°	1338	5	57.2	−13	30.6	8.8 ^ ∫
347	−13°	1341	5	57.6	−13	41.4	8.0 ^ ∫
348	−13°	1344	5	58.4	−13	45.0	8.5 ^ J
349	−13°	1347	5	58.7	−13	24.7	9.0 ^ ∫
350	−13°	1350	5	59.3	−13	1.40	7.8 ^ ∫
351	−13°	1352	5	59.7	−13	20.6	10 ^ ∫

cards made out

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

Wednesday, Nov. 20, 1912.

B2058 short exps.

No.	Int.	Class	Remark
352	5	A0	
353	3	F8	
354	1	F5	
355	4	K4	
356	3	A0	
357	4	A2	
358	3	A0	
359	2	G0	
360	2	G0	
361	2	F5	
362	6	K0	
363	2	A0	
364	2	K0	
365	3	K0	
366	10+	G	Burned out.
367	2	F2	
368	4	K0	
369	3	A0	
370	10+	F5	
371	9	A3	
372	5	K2	
373	2	F0	
374	4	K0	
375	2	G?	Too much superposed on 376
376	2	F5	Partly superposed on 375.
377	3	K0	
378	2	K5	

352	−13°	1354	6	0.0	−13	24.6	8.5	∧ J
353	−13°	1357	6	0.4	−13	12.4	9.0	∧ I
354	−13°	1359	6	0.5	−13	20.4	9.3	∧ ✓
355	−13°	1360	6	0.7	−13	22.2	9.2	∧ N
356	−13°	1361	6	1.0	−13	11.5	9.2	∧ V
357	−13°	1353	6	0.0	−13	44.1	9.0	∧ V
358	−13°	1355	6	0.3	−13	40.5	9.3	∧ J
359	−13°	1358	6	0.5	−13	0.0	9.8	∧ V −13° 1358 superposed
360	−14°	1336	6	0.8	−14	0.1	9.4	∧ V
361	−14°	1337	6	0.9	−14	5.3	9.6	∧ ✓
362	−14°	1341	6	1.3	−14	14.3	8.5	∧ I
363	−13°	1363	6	1.7	−13	52.1	9.5	∧ J
364	−14°	1334	6	0.7	−14	28.2	9.5	∧ I
365	−14°	1310	5	55.3	−14	6.2	9.1	∧ J
366	−14°	1315	5	56.0	−14	30.0	7.0	∧ I
367	−13°	1331	5	56.1	−13	41.4	9.3	∧ I
368	−13°	1339	5	57.3	−13	56.9	8.9	∧ V
369	−13°	1342	5	57.6	−13	55.6	9.2	∧ I
370	−14°	1322	5	57.6	−14	4.8	7.8	∧ I
371	−14°	1324	5	58.0	−14	1.6	8.2	∧ I
372	−14°	1326	5	58.3	−14	6.7	8.5	∧ J
373	−14°	1325	5	58.3	−14	21.9	9.5	∧ J
374	−14°	1328	5	58.6	−14	17.9	8.7	∧ N
375	−13°	1349	5	59.1	−13	59.6	9.5	∧ J
376	−14°	1330	5	59.1	−14	0.0	9.4	∧ J
377	−15°	1269	6	0.1	−15	7.4	8.9	∧ V
378	−15°	1272	6	0.9	−15	14.8	9.2	∧ I

Cards made out

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

Wednesday Nov 20, 1912.

B20581 closest asts.

No.	Int.	Class	Remark
379	4	Ja5	
380	5	Ao	
381	3	Ac5	Focus poor.
382	4	Ja8	
383	4	Ao	
384	3	A	Faintly superposed on 383.
385	10+	A	
386	3	Ao	
387	2	A2	
388	2	Ja6	
389	5	Ac5	
390	3	Ja2	
391	2	Ja2	
392	7	Ao	
393	7	Ja2	
394	9	Ja0	
395	8	Ja0	
396	3	Ao	
397	6	Ja9	
398	5	Ja5	
399	6	Ao	
400	4	Ag5	
401	2	Ja6	
402	5	Ja0	
403	2	Ja0	
404	2	Ja8	
405	2	Ao	

379	−15°	1274	6	1.3	−15	11.1	9.0	^ I
380	−15°	1277	6	1.7	−15	24.7	9.0	^ V
381	−14°	1344	6	2.2	−14	57.1	9.8	^ I
382	−14°	1346	6	2.5	−14	48.4	9.0	^ J
383	−15°	1285	6	2.9	−15	5.3	9.2	^ I
384	−15°	1283	6	2.9	−15	0.0	9.4	^ 1,2,3,4,5,6,7,8,9 −15 1.7 85 6 superposed
385	−15°	1292	6	3.7	−15	2.0	7.3	^ V
386	−15°	1293	6	3.9	−15	8.4	9.7	^ V
387	−14°	1354	6	3.9	−14	48.4	9.8	^ J
388	−15°	1305	6	5.2	−15	12.1	9.5	^ I
389	−15°	1308	6	6.5	−15	11.2	9.0	^ 4
390	−15°	1313	6	6.8	−15	6.5	9.2	^ I
391	−14°	1368	6	7.2	−14	54.2	9.3	^ V
392	−15°	1311	6	6.6	−15	27.4	8.8	^ J
393	−15°	1312	6	6.6	−15	22.9	9.1	^ V
394	−15°	1314	6	6.9	−15	21.0	7.5	^ J
395	−15°	1315	6	7.1	−15	24.9	8.7	^ V
396	−15°	1318	6	8.5	−15	45.2	9.2	^ V
397	−15°	1320	6	8.9	−15	45.5	8.8	^ V
398	−15°	1321	6	9.0	−15	33.3	9.1	^ I
399	−15°	1322	6	9.3	−15	19.2	9.1	^ J
400	−15°	1325	6	9.5	−15	20.9	9.1	^ J
401	−15°	1327	6	9.9	−15	14.4	9.2	^ V
402	−15°	1328	6	10.3	−15	4.8	8.5	^ J
403	−14°	1387	6	10.7	−14	27.0	9.2	^ V
404	−14°	1391	6	11.2	−14	39.4	9.3	J
405	−14°	1388	6	10.7	−14	57.1	9.6	^ J

cards made out

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

Wednesday, Nov. 20, 1912.
B2058 1 short disp.

No.	Int.	Class	Remark
406	2	50	
407	2	48	
408	3	20	
409	1	40	
410	1	50	
Time: 11.30 411	2	48	
412			

cmh. 133, 34

406	−14°	1384	6	9.8 −14	17.4	9.8 ∧ı
407	−14°	1386	6	10.2 −14	18.6	9.5 ∧ı
408	−14°	1375	6	8.8 −14	59.9	9.5 ∧v
409	−14°	1376	6	8.9 −14	54.0	9.7 ı∧
410	−14°	1378	6	9.1 −14	59.1	9.5 ∧v
411	−14°	1385	6	9.9 −14	59.4	9.7 ∧v

Identified by ams. Nov. 22-23, 1912.
Checked Dec. 13, 1912. EDW.
Cards made out by M. C. W.
Cards checked by E. K. B.

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

Monday. Dec. 9. 1918.

Time: 10.49

B20527 Heat disc.

No.	Dist.	Class	Remark
1	2	H5	
2	4	H0	
3	2	H5	
4	8	Q0	
5	1	H2	
6	2	Q5	
7	6	H5	
8	8	H5	
9	4	H5	
10	7	H2	
11	2	H0	
12	2	H2	
13	5	Q0	
14	3	Q3	
15	3	Q2	
16	4	Q3	
17	2	Q3	
18	6	H0	
19	7	Q0	
20	9	Q0	
21	6	H0	
22	1	H0	
23	5	H0	
24	7	H0	
25	7	H0	
26	2	Q5	
27	3	H5	

		7.1		5		6.6	8.6	
1	− 35°	2668	6.5	59.4	− 35	~~25.8~~	9.7	✓
2	− 35°	2678	6	0.6	− 35	47.0	9.1	✓
3	− 36°	2680	6	0.3	− 36	9.7	9.0	✓
4	− 36°	2660	6	3.1	− 36	17.5	7.5	✓
5	− 36°	2658	6	2.8	− 36	31.6	9.1	✓
6	− 36°	2656	6	2.6	− 36	48.5	9.5	✓
7	− 37°	2605	6	3.0	− 37	1.0	7.7	✓
8	− 37°	2607	6	3.0	− 37	11.0	7.6	✓
9	− 36°	2677	6	4.7	− 36	46.4	8.5	✓
10	− 36°	2674	6	4.4	− 36	6.0	8.0	✓
11	− 35°	2728	6	5.6	− 35	43.9	9.3	✓
12	− 35°	2730	6	5.6	− 35	49.0	9.5	✓
13	− 35°	2733	6	6.0	− 35	44.2	8.9	✓
14	− 35°	2742	6	7.0	− 35	32.3	9.6	✓
15	− 35°	2736	6	6.2	− 35	9.0	9.3	✓
16	− 35°	2715	6	5.1	− 35	6.5	8.7	✓
17	− 35°	2714	6	5.0	− 35	17.5	9.7	✓
18	− 34°	2688	6	5.0	− 34	55.5	8.7	✓
19	− 34°	2678	6	4.2	− 34	59.5	8.7	✓
20	− 35°	2707	6	3.1	− 35	12.5	8.0	✓
21	− 34°	2649	6	1.9	− 34	43.4	8.3	✓
22	− 34°	2651	6	2.0	− 34	58.0	9.6	✓
23	− 34°	2663	6	3.2	− 34	28.0	8.3	✓
24	− 34°	2665	6	3.2	− 34	37.9	7.5	✓
25	− 34°	2680	6	4.3	− 34	20.6	8.3	✓
26	− 34°	2684	6	4.6	− 34	18.7	9.6	✓
27	− 34°	2687	6	4.8	− 34	4.0	8.9	✓

cards made out

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

Monday, Dec. 9. 1912

B 20527 about mid.

No.	Int.	Class	Remark
28	7	A0	
29	8	K2	
30	3	F5	
31	3	A0	
32	10	K0	
33	1	F2	
34	4	K2	
35	4	K0	
36	3	K0	
37	2	A2	
38	3	F2	
39	6	A0	
40	3	K3	
41	2	K0	
42	10+	K3	Ruined out.
43	4	K5	
44	41	F	Partly superposed on 42.
45	3	F5	
46	7	K3	
47	4	K2	
48	4	K3	
49	2	K5	
50	1	K0	
51	1	K5	
52	1	A0	
53	3	K0	
54	8	A5	

28	- 34°	2692	6	5.1 - 34	9.0	8.3 ✓
29	- 33°	2779	6	6.7 - 33	50.2	7.3 ✓
30	- 34°	2701	6	6.2 - 34	14.0	9.0 ✓
31	- 34°	2705	6	6.5 - 34	27.0	8.7 ✓
32	- 34°	2699	6	6.1 - 34	47.9	6.9 ✓
33	- 35°	2756	6	8.0 - 35	13.0	8.3 ✓
34	- 34°	2727	6	8.5 - 34	32.1	8.0 ✓
35	- 35°	2766	6	9.1 - 35	45.3	8.8 ✓
36	- 35°	2770	6	9.3 - 35	41.1	8.5 ✓
37	- 35°	2768	6	9.2 - 35	52.9	9.3 ✓
38	- 36°	2726	6	8.9 - 36	15.3	9.0 ✓
39	- 36°	2696	6	7.0 - 36	22.1	8.0 ✓
40	- 36°	2699	6	7.3 - 36	48.9	9.5 ✓
41	- 36°	2709	6	7.9 - 36	43.3	9.0 ✓
42	- 36°	2714	6	8.1 - 36	32.0	6.8 ✓
43	- 36°	2718	6	8.4 - 36	36.0	8.4 ✓
44	- 36°	2720	6	8.5 - 36	32.0	9.0 ✓
45	- 36°	2727	6	9.0 - 36	41.8	9.0 ✓
46	- 37°	2668	6	8.5 - 37	2.9	8.0 ✓
47	- 37°	2681	6	9.6 - 37	32.2	8.3 ✓
48	- 37°	2690	6	10.9 - 37	43.6	9.0 ✓
49	- 36°	2743	6	10.4 - 36	54.9	8.5 ✓
50	- 36°	2749	6	10.8 - 36	34.3	9.0 ✓
51	- 36°	2755	6	11.4 - 36	9.8	8.7 ✓
52	- 35°	2798	6	12.0 - 35	56.2	9.7 ✓
53	- 35°	2802	6	12.8 - 35	50.2	8.5 ✓
54	- 35°	2806	6	12.7 - 35	55.2	8.0 ✓

Cards made out

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

Monday, Dec. 9, 1912.

B 20527 short exp.

No.	Int.	Class	Remark
55	2	A0	
56	8	F0	
57	3	A2	
58	1	F8	
59	4	F2	
60	7	F5	
61	4	F5	
62	4	K5	
63	7	A5	
64	5	F5	
65	1	K5	
66	3	A0	
67	1	K0	
68	5	K2	
69	3	K0	
70	1	K0	
71	7	A	
72	6	A5	
73	5	K0	
74	7	K0	
75	3	F2	
76	3	A0	
77	3	G0	
78	4	K0	
79	3	K0	
80	5	F5	
81	2	G0	

55	− 36°	2780	6	12.8	− 36	1.8	9.0 ✓
56	− 35°	2799	6	12.0	− 35	23.8	7.7 ✓
57	− 35°	2786	6	10.9	− 35	24.5	9.0 ✓
58	− 35°	2780	6	10.2	− 35	25.8	9.3 ✓
59	− 35°	2775	6	9.8	− 35	15.0	8.7 ✓
60	− 34°	2754	6	10.9	− 34	54.9	8.8 ✓
61	− 34°	2759	6	11.4	− 34	20.2	8.5 ✓
62	− 34°	2763	6	11.7	− 34	0.7	7.7 ✓
63	− 33°	2862	6	12.9	− 33	39.2	8.3 ✓
64	− 33°	2872	6	13.6	− 33	15.3	8.3 ✓
65	− 34°	2770	6	12.6	− 34	41.6	8.9 ✓
66	− 34°	2784	6	14.0	− 34	32.0	9.3 ✓
67	− 35°	2828	6	14.5	− 35	38.2	9.3 ✓
68	− 35°	2825	6	14.4	− 35	50.8	7.5 ✓
69	− 35°	2839	6	16.4	− 35	30.2	8.5 ✓
70	− 35°	2846	6	16.2	− 35	13.5	9.1 ✓
71	− 35°	2847	6	16.3	− 35	36.1	8.5 ✓
72	− 35°	2855	6	16.7	− 35	4.5	9.3 ✓
73	− 34°	2819	6	17.4	− 34	42.5	7.7 ✓
74	− 34°	2822	6	17.6	− 34	59.5	7.2 ✓
75	− 35°	2863	6	17.8	− 35	17.9	8.7 ✓
76	− 35°	2861	6	17.7	− 35	49.1	9.7 ✓
77	− 35°	2870	6	18.7	− 35	38.6	8.9 ✓
78	− 35°	2883	6	19.9	− 35	12.5	8.3 ✓
79	− 35°	2877	6	19.4	− 35	45.0	8.5 ✓
80	− 36°	2870	6	19.5	− 36	0.2	8.7 ✓
81	− 36°	2858	6	18.9	− 36	3.7	9.4 ✓

Chart plate B 3116 shows the preceding star to be next out of limits on going in this cat. −35° 2855 has been used.

cards made out

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

Monday. Dec. 9. 1912

320527 short exp.

No.	Int	Class	Remark
82	2	K0	
83	2	A5	
84	2	K5	
85	1	F8	
86	8	A0	
87	2	K0	
88	1.7	F2	
89	3	A5	
90	7	K5	
91	8	F0	
92	3	K0	
93	1	K	
94	2	A5	
95	4	F2	
96	1	F5	
97	1	K5	
98	1	F2	
99	1	K0	
100	1	A3	
101	2	K5	
102	8	A0	
103	4	F8	
104	2	F8	
105	1	K0	
106	4	F0	
107	3	F5	
108	2	K2	

82	− 36°	2840	6	17.4	− 36	8.7	9.0 K
83	− 36°	2832	6	17.0	− 36	36.6	9.6 K
84	− 36°	2825	6	16.4	− 36	38.1	9.5 K
85	− 36°	2827	6	16.5	− 36	19.6	9.6 K
86	− 36°	2817	6	15.9	− 36	17.6	7.7 K
87	− 36°	2809	6	15.1	− 36	25.2	9.0 K
88	− 36°	2804	6	14.8	− 36	28.5	8.0 K
89	− 36°	2800	6	14.5	− 36	15.9	8.5 K
90	− 37°	2758	6	16.6	− 37	25.5	7.9 K
91	− 37°	2751	6	16.2	− 37	26.9	8.0 K
92	− 37°	2733	6	15.1	− 37	24.5	8.5 K
93	− 37°	2739	6	15.5	− 37	0.2	8.7 K
94	− 37°	2715	6	14.0	− 37	37.8	9.0 K
95	− 37°	2711	6	13.2	− 37	49.4	9.0 K
96	− 36°	2773	6	12.4	− 36	45.7	9.4 K
97	− 36°	2767	6	12.1	− 36	38.9	8.7 K
98	− 37°	2597	6	0.6	− 37	59.4	9.6 K
99	− 37°	2596	6	1.8	− 37	57.4	9.6 K − 37° 2595 Superposed
100	− 37°	2598	6	2.0	− 37	42.4	9.5 K
101	− 37°	2613	6	3.6	− 37	55.9	9.0 K
102	− 38°	2448	6	4.7	− 38	3.4	7.7 K
103	− 37°	2642	6	6.0	− 37	49.9	8.9 K
104	− 37°	2623	6	4.6	− 37	22.3	9.3 K
105	− 37°	2667	6	5.4	− 37	54.9	8.7 K
106	− 38°	2403	6	0.6	− 38	43.9	8.5 K
107	− 38°	2408	6	0.9	− 38	40.9	8.9 K
108	− 38°	2418	6	3.0	− 38	5.2	8.8 K

cards made out

Magn. 9.7

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

Monday, Dec. 9, 1912.

P 320537 slight diff.

No.	Int.	Class	Remark
109	1	Ir	
110	6	F2	
111	4	F0	
112	1	F8	
113	4	F2	
114	4	A2	
115	2	Ir5	
116	2	F0	
117	1	A5	
118	3	Ir2	
119	3	A0	
120	5	A5	
121	5	F2	
122	1	Ir0	
123	1	G	
124	3	Ir2	
125	2	Ir2	
126	1	F0	
127	7	A0	
128	10+	A2	
129	6	Ir0	
130	9	G5	
130a	1	G5	nearly all resolved on 130
131	3	Ir5	
132	2	A5	
133	6	Ir0	
134	1	A3	
135	3	Ir0	

109	- 38°	2424	6	2.7 - 38	35.5	8.5
110	- 38°	2433	6	3.7 - 38	37.4	8.3
111	- 38°	2435	6	3.9 - 38	57.5	8.9
112	- 39°	2388	6	~~3.0~~ 2.7 - 39	~~18.6~~ 7.6	8.2
113	- 39°	2390	6	3.0 - 39	~~47.8~~ 18.6	9.5
114	- 39°	2412	6	5.8 - 39	32.4	9.3
115	- 39°	2417	6	6.0 - 39	11.1	9.2
116	- 39°	2420	6	6.3 - 39	36.4	9.3
117	- 39°	2456	6	9.3 - 39	33.9	9.4
118	- 38°	2511	6	9.7 - 38	45.3	8.5
119	- 38°	2530	6	10.8 - 38	39.9	9.5
120	- 38°	2534	6	11.9 - 38	32.0	8.3
121	- 38°	2553	6	13.3 - 38	32.2	8.3
122	- 39°	2470	6	10.4 - 39	14.6	9.3
123	- 39°	2467	6	10.2 - 39	25.8	9.7
124	- 39°	2480	6	11.4 - 39	17.0	8.7
125	- 39°	2482	6	11.4 - 39	49.9	9.0
126	- 40°	2340	6	11.0 - 40	4.0	9.7
127	- 39°	2493	6	12.7 - 39	35.9	8.3
128	- 39°	2491	6	12.5 - 39	13.0	6.4
129	- 38°	2569	6	14.4 - 38	50.6	7.3
130	- 39°	2526	6	15.7 - 39	~~27.4~~ 25.9	~~8.5~~ 4.5
130a	- 39°	2525	6	15.7 - 39	27.4	8.2
131	- 39°	2531	6	16.1 - 39	10.2	8.1
132	- 39°	2538	6	17.0 - 39	1.3	9.0
133	- 39°	2554	6	18.1 - 39	10.2	7.7
134	- 38°	2586	6	16.3 - 38	25.8	9.3
135	- 38°	2587	6	16.4 - 38	6.1	8.3

cards made out

Should it is star. Jan. 7, 1913.

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

Monday, Dec. 9, 1912.

B 20527 short disp.

No.	Int.	Class	Remark
136	3	H2	
137	2	F5	
138	3	A3	
139	10+	G5	
140	8	G5	Nearly all superposed on 139.
141	2	F0	
142	4	H5	
143	3	A5	
144	3	F8	
145	9	A0	
146	6	H5	
147	10	A3	
148	8	F0	Partly superposed on 147.
149	3	G5	
150	3	F0	
151	3	H5	
152	2	G5	
153	1	F2	
154	3	H5	
155	5	A0	
156	5	G5	
157	7	G0	
158	4	Ma	
159	8	F	E.
160	4	F0	
161	7	A0	
162	6	A2	

136	−37°	2785	6	18.3	−37	55.8	8.5
137	−36°	2854	6	18.5	−36	56.8	9.0
138	−36°	2872	6	19.6	−36	46.8	9.9
139	−36°	2873	6	19.7	−36	38.2	6.6
140	−36°	2875	6	19.8	−36	37.5	7.0
141	−36°	2886 ~~2848~~	6	20.8	−36	~~18.6~~ 40.2	9.8
142	−36°	2885	6	20.4	−36	31.6	8.0
143	−36°	2887	6	20.5	−36	34.0	9.0
144	−36°	2895	6	21.1	−36	13.6	9.6
145	−35°	2894	6	21.3	−35	37.6	8.0
146	−35°	2896	6	21.5	−35	16.2	7.8
147	−34°	2868	6	21.2	−34	58.0	7.7
148	−34°	2864	6	21.0	−34	59.5	7.1
149	−34°	2869	6	20.8	−34	19.0	8.8
150	−34°	2851	6	20.3	−34	2.0	8.3
151	−34°	2826	6	19.4	−34	23.1	8.6
152	−34°	2820	6	17.4	−34	27.5	8.8
153	−34°	2803	6	16.9	−34	29.1	9.9
154	−33°	2911	6	16.2	−33	31.6	8.8
155	−33°	2920	6	17.0	−33	40.0	8.7
156	−33°	2925	6	17.4	−33	53.4	8.3
157	−33°	2930	6	18.0	−33	48.4	8.3
158	−33°	2935	6	18.3	−33	33.0	7.7
159	−33°	2944	6	19.1	−33	14.7	8.0
160	−37°	2818	6	21.6	−37	13.3	8.5
161	−37°	2831	6	22.5	−37	9.0	8.3
162	−37°	2838	6	22.9	−37	1.7	8.3

Cards made out

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

Thursday. Dec 9, 1915.

B320527 slant disp.

No.	Int.	Class	Remark
163	3	A2	
164	2	fg	Appears like 2 stars of class fg.
165	3	gK5	
166	2	Ma	
167	1	F0	
168	1	gK0	
169	2	fg5	
170	2	A0	The following of two.
171	6	gK2	
172	2	F0	
173	2	A0	
174	5	gK5	
175	3	gK0	
176	1	gK0	
177	1	A0	
178	5	A2	
179	3	A0	
180	4	fg5	
181	3	gK5	
182	2	A0	
183	2	fg5	
184	6	F0	
185	1	gK	
186	10+	F	
187	3	Ma	
188	3	A2	
189	6	A0	

163	- 37°	2835	6	22.9 - 37	28.4	9.5
164	- 37°	2821	6	21.9 - 37	47.1	9.3
165	- 38°	2631	6	20.4 - 38	12.2	8.1
166	- 38°	2628	6	20.2 - 38	0.8	8.7
167	- 37°	2807	6	20.2 - 37	31.9	9.4
168	- 37°	2805	6	20.1 - 37	28.5	9.2
169	- 37°	2799	6	19.6 - 37	55.9	8.9
170	- 38°	2619	6	19.4 - 38	12.7	9.4
171	- 39°	2577	6	20.0 - 39	38.3	7.9
172	- 39°	2563	6	18.7 - 39	46.3	9.1
173	- 39°	2584	6	21.0 - 39	23.4	9.4
174	- 38°	2647	6	21.7 - 38	52.5	7.5
175	- 38°	2651	6	22.4 - 38	49.0	8.3
176	- 38°	2649 (2646)	6	20.8 (21.1) - 38	44.0 (58.6)	8.5 (8.7)
177	- 38°	2636	6	20.8 - 38	58.6	8.7
178	- 39°	2593	6	22.1 - 39	24.7	8.7
179	- 39°	2598	6	22.5 - 39	12.3	9.6
180	- 39°	2596	6	22.3 - 39	36.8	8.5
181	- 39°	2606	6	23.2 - 39	34.2	8.2
182	- 38°	2670	6	24.2 - 38	48.4	9.0
183	- 38°	2675	6	24.5 - 38	29.2	8.7
184	- 38°	2677	6	24.6 - 38	14.2	8.0
185	- 38°	2655	6	22.8 - 38	20.2	9.1
186	- 37°	2837	6	22.9 - 37	49.4	6.8
187	- 37°	2854	6	24.6 - 37	15.4	8.3
188	- 37°	2857	6	25.2 - 37	41.2	9.6
189	- 37°	2864	6	25.6 - 37	55.2	8.5

cards made out

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

Monday. Dec. 9. 1912.
B2057 short disp.

No	Int.	Class	Remark
190	4	F	E.
191	8	Ma	E.
192	5	Ao	
Time: 11.30 193	6	Ao	

190 − 36°	29.50	6.	26.5 − 36	59.3	8.6 ✓
191 − 36°	29.62	6.	27.3 − 36	57.3	6.9 ✓
192 − 36°	29.39	6.	25.3 − 36	6.1	8.5 ✓
193 − 35°	29.23	6.	24.2 − 35	11.0	8.7 ✓

Identified by A.M.S. Dec. 20, 1912
Checked by J.C.M. Jan. 7, 1913.
cards made out by M. C. W.
Cards checked by E.P.W.

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

Monday. Dec. 9, 1912

Time: 11.45

B342145

No.	Int.	Class	Remark
1	5	B8	
2	4	B8	
3	8	A0	
4	5	B9	
5	7	B	Focus poor. Probably B2.
6	7	B9	
7	8	G5	
Time: 11.48 8	7	B	Focus too poor.
9			
10			

1	− 36°	2869	6′	19.4 − 36	57.3	7.5 ✓
2	− 36°	2714	6′	8.1 − 36	32.0	6.8 ✓
3	− 35°	2684	6′	1.0 − 35	30.5	6.2 ✓
4	− 34°	2833	6′	18.8 − 34	56.5	6.8 ✓
5	− 34°	2806	6′	16.1 − 34	4.6	6.0 ✓
6	− 34°	2795	6′	15.2 − 34	20.6	6.3 ✓
7	− 35°	2800	6′	12.1 − 35	6.5	4.8 ✓
8	− 34°	2655	6′	2.6 − 34	18.0	6.1 ✓

Identified by A.M.C. Dec. 20, 1912
Checked by J.C.M. Jan. 20, 1913.
cards made out by M.C.W.
Cards checked by E.R.B.

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

Monday, Dec. 9, 1912.

B 1469 0 short disp. (cont fr. B 1453.86)

Time: 12.20			
No.	Int.	Class	Remark
134	2	$\frac{1}{5}$	
135	2	$\frac{1}{5}$	
136	4	Qs	
137	6	$\frac{1}{2}$	
138	2	$\frac{1}{5}$	
139	3	$\frac{1}{2}$	
140	4	$\frac{1}{5}$	
141	1	$\frac{1}{5}$	
142	5	$\frac{1}{5}$	E.
143	7	Q	E.
144	8	$\frac{1}{5}$	
145	2	$\frac{1}{2}$	
146	3	$\frac{1}{5}$	
Time: 12.25 147	3	$\frac{1}{2}$	E.
148			

134	-29°	2459 5	40.5 - 29	57.7	8.8 ∧ ı
135	-30°	2627 5	43.3 - 30	57.7	8.5 ∧ ı
136	-31°	2757 5	44.6 - 31	8.1	8.0 ∧ ı
137	-31°	2757 5	44.4 - 31	44.21	7.3 ∧ ı
138	-32°	2572 5	44.4 - 32	4.0	8.5 ∧ ı
139	-31°	2788 5	46.9 - 31	48.2	7.5 ∧ ı
140	-32°	2599 5	46.6 - 32	20.3	8.0 ∧ ı
141	-32°	2609 5	47.6 - 32	14.21	8.5 ∧ ı
142	-32°	2614 5	48.2 - 32	21.7	7.8 ∧ ı
143	-32°	2620 5	48.6 - 32	50.0	8.0 ∧ ı
144	-33°	2537 5	42.4 - 33	48.4	9.0 ∧ ı
145	-33°	2544 5	43.3 - 33	28.2	9.0 ∧ ı
146	-30°	2685 5	48.3 - 30	35.9	7.9 ∧ ı
147	-30°	2697 5	49.0 - 30	42.4	8.6 ∧ ı

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

Checked Dec. 28, 1912, H.D.W.

cards made out by M. C. W.

Cards checked by E.K.B.

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

Monday, Dec. 9, 1912.

Time: 12.32

B 10682 short disps.

No.	Int.	Class	Remark
1	6	Q	E.
2	7	∓	E.
3	2	$\frac{1}{2}$	
4	2	$\frac{1}{2}$	
5	5	$\frac{1}{2}$	
6	3	$\frac{1}{2}$	
7	2	Q	
8	5	$\frac{1}{2}$	
9	7	Q	
10	2	$\frac{1}{2}$	
11	3	$\frac{1}{2}$	
12	2	$\frac{1}{2}$	
13	2	$\frac{1}{2}$	
14	4	Q	
15	3	$\frac{1}{2}$	
16	3	Q	
17	7	$\frac{1}{2}$	
18	3	Q	
19	1	$\frac{1}{2}$	
20	2	$\frac{1}{2}$	
21	4	Q	
22	2	$\frac{1}{2}$	
23	1	$\frac{1}{2}$	
24	7	$\frac{1}{2}$	
25	2	$\frac{1}{2}$	
26	2	Q	
27	5	$\frac{1}{2}$	

1	-31°	2844	5	51.3	-31	33.2	6.8
2	-31°	2848	5	51.7	-31	24.0	5.6
3	-31°	2857	5	52.4	-31	16.4	8.5
4	-31°	2841	5	51.1	-31	53.7	7.9
5	-31°	2854	5	52.2	-31	59.2	6.7
6	-31°	2871	5	53.3	-31	56.1	7.1
7	-31°	2879	5	53.7	-31	53.6	8.3
8	-32°	2696	5	54.6	-32	18.5	7.3
9	-33°	2637	5	52.0	-33	27.0	7.7
10	-33°	2623	5	50.4	-33	40.7	8.3
11	-33°	2624	5	50.6	-33	57.3	8.5
12	-33°	2613	5	49.8	-33	53.9	8.2
13	-35°	2576	5	51.5	-35	7.3	8.3
14	-34°	2560	5	53.4	-34	28.7	7.3
15	-34°	2571	5	54.5	-34	23.0	8.5
16	-33°	2660	5	54.6	-33	49.6	8.0
17	-33°	2681	5	56.7	-33	57.9	5.9
18	-34°	2604	5	57.4	-34	30.7	8.3
19	-33°	2685	5	57.0	-33	44.1	8.6
20	-33°	2698	5	58.0	-33	39.1	9.0
21	-33°	2699	5	58.3	-33	18.5	8.5
22	-33°	2704	5	58.9	-33	4.0	8.4
23	-33°	2703	5	58.9	-33	37.1	8.5
24	-33°	2724	6	0.9	-33	29.4	7.5
25	-33°	2747	6	3.5	-33	34.2	9.3
26	-33°	2816	6	9.5	-33	9.4	8.6
27	-32°	2886	6	10.9	-32	24.8	8.6
		2900	6	11.8	-32	23.7	8.0

Cards made and

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

Monday: Dec. 9, 1912
B 10682 short disp.

hr.	Int.	Class	Remark
28	3	fp0	
29	1	[illegible]	
30	3	A0	
31	3	fp0	
32	2	f2	
33	6	fp5	
34	3	f8	
35	2	A0	
36	2	f5	
37	2	fp0	
38	3	f2	
39	3	fp0	
40	3	A2	
41	5	f0	
42	5	fp0	
43	4	A3	
44	1	fp0	
45	2	fp0	
Time: 12.30 46	4	fp5	
47	2	fp0	
48	3	A2	

28	−33°	2872	6	13.6	−33	15.3	8.3
29	−33°	2878	6	14.1	−33	32.2	8.5
30	−33°	2905	6	15.8	−33	4.8	8.5
31	−33°	2917	6	16.8	−33	1.0	7.3
32	−32°	~~3190~~ 2950	6	15.9	−32	~~28.8~~ 33.1	8.7 ~~9.2~~
33	−31°	3245	6	18.6	−31	43.3	6.8
34	−31°	3261	6	19.4	−31	42.7	8.3
35	−31°	3265	6	19.5	−31	5.6	8.1
36	−30°	3138	6	20.6	−30	48.6	8.0
37	−31°	3278	6	20.7	−31	4.6	8.3
38	−31°	3276	6	20.6	−31	29.5	8.3
39	−31°	3286	6	20.9	−31	24.5	8.0
40	−31°	3270	6	20.1	−31	45.6	8.5
41	−31°	3307	6	22.1	−31	47.8	8.0
42	−32°	3046	6	22.4	−32	5.1	7.5
43	−32°	3053	6	22.8	−32	32.5	8.3
44	−32°	3047	6	22.5	−32	49.0	8.6
45	−33°	2989	6	22.7	−33	1.6	8.5
46	−33°	2982	6	22.1	−33	20.1	7.5

Identified by AMC. Dec. 21, 1912
Checked, Dec. 27. 1912. [illegible]
cards made out by Mr. C. W.
Cards checked by E.R.B.

47	−32	2753	6	0.5	−32	8.9	8.5
48	−29	2885	6	13.7	−28	1.8	8.6

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

Wednesday January 1, 1913
(Continued from page 48) B41089 Shock

No.	Int.	Class	Remarks
96	2	K5	
97	4	K0	
98	5	K0	
99	5	K5	
100	6	K0	
101	3	K5	
102	2	M	
103	10+	A0	
103a	7	F2	Ha n.f.
104	1	K5	
105	1	K5	
106	1	K5	
107	2	K2	
108	2	K0	
109	4	F5	
110	2	K5	
111	1	K5	
112	8	F0	
113	2	A0	
114	2	A3	
115	2	K7	
116	2	K5	E
117	3	K0	
118	2	K5	
119	1	K5	
120	2	G	E
121	2	K5	E
122	3	F5	

96	-20°	784	4	0.4	-20	52.2	9.0
97	-20°	790	4	2.1	-20	52.6	8.4
98	-21°	797	4	2.8	-21	6.5	8.5
99	-20°	791	4	2.3	-20	27.1	8.2
100	-20°	792	4	2.7	-20	39.5	8.4
101	-20°	793	4	2.9	-20	48.3	8.8
102	-20°	798	4	4.7	-20	25.7	8.7
103	-20°	801	4	5.2	-20	44.2	6.1
103a	-20°	800	4	6.2	-20	42.8	8.6
104	-21°	805	4	5.1	-21	33.5	9.1
105	-21°	809	4	5.5	-21	7.7	9.1
106	-20°	802	4	5.7	-20	51.6	9.1
107	-20°	804	4	6.2	-20	42.5	9.1
108	-20°	805	4	6.4	-20	17.7	9.0
109	-20°	807	4	6.6	-20	13.4	8.7
110	-20°	812	4	8.8	-20	21.2	8.6
111	-19°	864	4	10.2	-19	58.4	8.9
112	-19°	870	4	11.0	-19	53.1	7.8
113	-20°	819	4	11.4	-20	14.3	8.8
114	-20°	821	4	11.7	-20	56.7	9.1
115	-20°	824	4	12.3	-20	40.9	8.9
116	-19°	875	4	11.9	-19	35.6	8.3
117	-21°	760	3	54.6	-21	54.5	8.3
118	-22°	733	3	55.8	-22	3.4	8.8
119	-22°	735	3	56.4	-22	23.4	8.8
120	-25°	1671	3	54.7	-25	41.1	8.8
121	-25°	1679	3	55.8	-25	31.7	8.4
122	-26°	1510	3	54.3	-26	15.4	8.7

cards made out

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

Wednesday January 1, 1913
B4108g short.

No.	Int.	Class	Remark
123	1	K	
124	4	F2	
125	1	G	
126	1	K5	
127	2	F5	
128	10+	A	Burned out.
129			

123	-26°	1495	3	52.3	-26	6.0	8.7	1 v
124	-26°	1480	3	50.5	-26	18.4	8.5	1 v
125	-26°	1502	3	53.1	-26	27.8	8.6	1 V
126	-25°	1661	3	52.9	-25	13.4	8.9	1 V
127	-24°	2018	3	54.4	-24	56.0	9.0	1 V
128	-24°	2022	3	54.6	-24	22.2	4.4	1 J

Identified by ANC Feb. 25, 1913
Checked Feb. 26 1913 A.C.W.
cards made out by A. C. W.
Cards checked by E.K.B.

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

Thursday Jan. 2 1913.

Time: 11.57

73 18522 Shift disp.

No.	Int.	Class	Remark
1	4	Fo	
2	3	A	Nearly all superposed on 3.
3	4	Ao	Partly superposed on 2.
4	3	F2	
5	6	A3	
6	10+	F2	
7	8	Ao	
8	2	Ao	
9	3	F2	
10	2	Ao	
11	1	G5	
12	3	F2	
13	1	F5	
14	6	F0	
15	4	F0	
16	7	G0	
17	4	G0	
18	1	A5	
19	3	F2	
20	1	F5	
21	2	F8	
22	3	F0	
23	5	F8	
24	2	G0	
25	1	K	
26	4	K2	
27	5	K2	

1	-19°	1147 5	14.6	-19	50.3	8.0 ✓
2	-19°	1156 5	16.3	-19	59.4	8.8 ✓
3	-20°	1070 5	16.3	-20	0.9	7.6 ✓
4	-20°	1077 5	17.7	-20	51.9	7.8 ✓
5	-20°	1085 5	20.2	-20	50.6	7.5 ✓
6	-19°	1173 5	19.7	-19	48.1 49.1	8.5 ✓ 6.0 ✓
7	-19°	1166 5	18.7	-19	30.1	7.5 ✓
8	-19°	1164 5	18.2	-19	21.2	8.9 ✓
9	-18°	1085 5	18.7	-18	51.5	8.3 ✓
10	-18°	1089 5	19.7	-18	47.0	9.1 ✓
11	-19°	1170 5	19.1	-19	25.0	8.9 ✓
12	-19°	1176 5	20.0	-19	38.3	8.8 ✓
13	-19°	1179 5	20.4	-19	31.7	9.4 ✓
14	-19°	1182 5	20.9	-19	13.8	8.1 ✓
15	-19°	1190 5	22.7	-19	16.8	8.2 ✓
16	-18°	1095 5	21.6	-18	7.7	7.5 ✓
17	-17°	1147 5	22.6	-17	33.0	8.0 ✓
18	-17°	1135 5	20.7	-17	45.4	9.1 ✓
19	-17°	1148 5	22.7	-17	26.4	8.1 ✓
20	-17°	1152 5	23.3	-17	22.7	8.8 ✓
21	-16°	1154 5	23.4	-16	47.3	8.9 ✓
22	-15°	1072 5	25.6	-15	40.5	8.2 ✓
23	-17°	1162 5	25.6	-17	52.5	8.0 ✓
24	-18°	1102 5	23.8	-18	40.3	8.5 ✓
25	-18°	1103 5	24.0	-18	40.8	8.8 ✓
26	-18°	1106 5	24.4	-18	43.2	8.5 ✓
27	-18°	1112 5	25.4	-18	49.6	8.4 ✓

Cards made out

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

Thursday, Jan. 2, 1913.

T3 18522 shot disp.

No.	Gat.	Class	Remark
28	4	F2	
29	2	Q5	
30	3	F2	
31	1	Q2F	
32	4	F0	
33	6	Q2	
34	6	F0	
35	3	F0	
36	5	Q3	
37	3	F5	
38	3	F2	
39	2	F5	
40	1	F5	
41	3	Q?	from F2 to violet end superposed on 42.
42	5	Q0	
43	7	F	E.
44	5	Q0	E.
45	3	F0	E.
46	4	F5	E.
47	6	F	E.
48	2	F0	
49	5	Q	
Trans: 12.04 50	10+	T39	
12.08 51	3	F0	
52	2	Q0	
53	10+	T39	
54	4	F0	

28	−19°	1198	5	24.5	−19	32.0	8.5 ✓
29	−19°	1199	5	~~24.8~~ 24.2	−19	~~32.0~~ 9.0	~~8.8~~ ✓
30	−19°	1203	5	26.9	−19	12.9	8.4 ✓
31	−19°	1208	5	26.9	−19	27.2	9.2 ✓
32	−19°	1209	5	27.1	−19	28.9	8.5 ✓
33	−19°	1210	5	27.5	−19	32.4	8.7 ✓
34	−18°	1122	5	27.4	−18	46.8	8.0 ✓
35	−17°	1170	5	27.3	−17	53.2	8.2 ✓
36	−17°	1174	5	28.2	−17	39.1	8.4 ✓
37	−18°	1134	5	29.8	−18	47.3	8.5 ✓
38	−19°	1225	5	30.8	−19	0.2	8.0 ✓
39	−20°	1126	5	29.5	−20	2.4	8.2 ✓
40	−19°	1223	5	30.6	−19	44.3	8.3 ✓
41	−19°	1224	5	30.7	−19	56.7	8.5?
42	−20°	1182	5	30.7	−20	1.0	8.7 ✓
43	−20°	1189	5	32.1	−20	10.5	8.5?
44	−20°	1141	5	32.5	−20	11.8	8.3 ✓
45	−20°	1138	5	32.0	−20	42.8	8.2 ✓
46	−21°	1206	5	28.8	−21	9.9	7.5 ✓
47	−19°	1234	5	34.0	−19	18.2	8.0 ✓
48	−18°	1158	5	34.9	−18	32.2	8.7 ✓
49	−18°	1166	5	36.5	−18	25.8	8.3 ✓ −17° 1167 Superposed mean 9.2
50	−17°	1199	5	32.9	−17	56.0	6.7 ✓
51	−17°	1198	5	32.7	−17	55.1	8.3 ✓
52	−17°	1200	5	32.9	−17	54.8	8.3 ✓
53	−18°	1172	5	34.0	−18	34.6	6.0 ✓
54	−18°	1174	5	34.7	−18	21.3	7.2 ✓

cards made out

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

Thursday Jan 2. 1913
B18522 short disp.

No	Int	Class	Remark
55	6	B9	
56	3	A0	
57	5	F2	
58	2	K0	
59	4	F0	
60	1	F0	
61	1	A0	
62	3	F0	
Jmc 12.12 63	1	A	
64	4	A2	
65	2	A3	
66	5	A0	
67	3	A0	
68	6	K5	
69			

55	-18°	1187	5	40.8	-18	13.7	8.2	✓
56	-17°	1231	5	38.4	-17	19.1	9.0	✓
57	-17°	1081	5	12.3	-17	43.3	8.0	✓
58	-17°	1078	5	11.7	-17	31.8	8.8	✓
59	-15°	1063	5	24.3	-15	55.2	8.5	✓
60	-14°	1141	5	21.4	-14	58.8	9.0	✓
61	-14°	1136	5	20.7	-14	49.1	8.8	✓
62	-15°	986	5	8.6	-15	29.4	8.5	✓
63	-15°	984	5	8.5	-15	15.8	9.0	✓

Identified by AMC. Jan. 6. 1913
Checked by J.C.M. Jan. 7. 1913
cards made out by M. C. W.
Cards checked by E.K.B.

✓ 64	-16°	1145	5	20.4	-16	37	8.5	55 on B18649
65								
✓ 66	-17°	1108	5	16.7	-17	21	8.3	70 on B18649
✓ 67	-17°	1103	5	16.2	-17	25	8.5	69 " "
✓ 68	-18	1127	5	27.9	-18	55	6.5	K5 on B20463

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

Thursday Jan 2. 1913.

Time: 12.25

B 1239 slant disp.

Nr.	Int.	Class	Remark
1	2	$\frac{1}{2}$ g5	
2	4	F2	
3	1	$\frac{1}{2}$ K5	
4	3	M0	
5	2	A3	
6	2	K0	
7	3	A5	
8	1	$\frac{1}{2}$ g5	
9	1	K0	
10	3	A2	
11	3	$\frac{1}{2}$ g0	
12	3	A0	
13	2	A0	
14	1	K0	
15	1	A	
16	1	$\frac{1}{2}$ K5	
17	4	F8	
18	5	A0	
19	3	A2	
20	1	$\frac{1}{2}$ g5	
21	1	K0	
22	1	A	
23	1	K0	
24	2	A0	
25	2	K5	
26	1	A	
27	2	A3	

1	−0°	885	H	56.7	−0	51.5	8.3 ∧ J
2	−0°	846	H	59.7	−0	5.6	8.6 ∧ r
3	−0°	849	5	0.0	−0	59.3	8.7 ∧ J
4	−1°	810	5	0.7	−1	4.2	8.7 ∧ J
5	−0°	854	5	0.7	−0	47.9	9.0 ∧ r
6	−1° −2°	799 1130	N 4	58.6 58.6	−1 −2	60.8 0.3	9.0 Same star 8.6 ∧ J
7	−2°	1142	5	0.9	−2	38.7	9.0 ∧ v
8	−2°	1143	5	1.0	−2	50.7	9.3 ∧ v
9	−2°	1149	5	1.7	−2	41.8	8.5 ∧ J
10	−2°	1154	5	2.2	−2	33.2	9.0 ∧ r
	−2°	1158 ~~814~~	5	2.8	−2	2.4	8.5
11	−1°	819	5	2.5	−1	57.7	9.3 J
12	−1°	817	5	2.1	−1	40.7	9.0 ∧ v
13	−1°	815	5	1.6	−1	53.3	9.4 ∧ J
14	−1°	811	5	1.2	−1	43.4	8.7 ∧ v
15	−2°	1157	5	1.7	−2	16.3	9.0 ∧ v
16	−1°	814	5	1.6	−1	26.2	8.5 ∧ v
17	+0°	971	5	3.2	+0	36.6	8.9 ∧ J
18	+0°	995	5	7.9	+0	51.5	9.1 ∧ J
19	−1°	829	5	8.5	−1	27.2	8.9 ∧ J
20	−0°	900	5	8.7	−0	56.1	9.0 ∧ J
21	−0°	905	5	9.1	−0	25.4	9.1 ∧ r
22	−0°	908	5	9.8	−0	27.3	9.5 ∧ J
		909	5	10.0	−0	30.0	9.0
23	−0°	911	5	10.3	−0	31.8	8.9 J
24	−1°	853	5	11.2	−1	17.4	9.2 ∧ v
25	−1°	822	5	3.2	−1	26.5	9.4 ∧ J
26	−1°	824	5	4.2	−1	21.2	9.4 ∧ v
27	−1°	827	5	5.0	−1	58.6	9.1 ∧ v

cards made out

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

Thursday Jan 8, 1914

D 2391 short exp.

Hr	Int.	Class	Remark
28	1	F5	
29	1	F	
30	2	A0	
31	2	A0	
32	3	A0	
33	1	F0	
34	5	F0	
35	3	A0	
36	2	A0	
37	3	A0	
38	3	F0	
39	2	A2	
40	3	A2	
41	2	A0	
42	5	B	
43	4	F5	
44	4	F0	
45	2	F0	
46	2	A0	
47	3	A2	
48	3	A3	
49	4	A0	
50	4	B8	
51	5	A0	
52	2	F5	
53	2	A3	
54	3	F0	

28	-2°	1169	5	5.0	-2	22.5	q.2 1 r 23.4 9.5 2 1170 8.1 8 superposed
29	-1°	829	5	5.3	-1	44.5 58.6	q.2 1 r
30	-1°	830	5	5.5	-1	44.1	q.2 1 v
31	-2°	1182	5	6.6	-2	q.4	q.0 1 v
32	-2°	1176	5	6.2	-2	47.9	q.2 1 v
33	-3°	1040	5	5.9	-3	8.4	q.0 1 v
34	-2°	1181	5	6.5	-2	57.2	8.5 1 v
35	-2°	1200	5	9.9	-2	44.6	q.0 1 v
36	-3°	1089	5	6.7	-3	57.7	q.2 1 v
37	-2°	1208	5	11.1	-2	41.5	8.5 1 v
38	-3°	1070	5	13.9	-3	0.5	8.5 1 v
39	-3°	1065	5	13.2	-3	39.6	q.0 1 v
40	-2°	1223	5	14.3	-2	11.4	8.0 1 v
41	-2°	1225	5	15.6	-2	17.6	8.5 1 v
42	-2°	1235	5	17.7	-2	31.9 32.0 37 40	1 v Prismatic Comp.
43	-2°	1243	5	17.9	-2	36.0	8.5 1 v
44	-2°	1245	5	18.4	-2	10.0	8.5 1 v
45	-3°	1081	5	15.8	-3	4.1	8.5 1 v
46	-3°	1087	5	16.6	-3	13.4	8.5 1 v
47	-3°	1091	5	17.2	-3	24.8	8.8 1 v
48	-3°	1097	5	19.0	-3	12.5	8.5 1 v
49	-3°	1103	5	19.9	-3	3.5	q.1 1 v
50	-2°	1260	5	21.4	-2	51.4	q.0 1 v
51	-2°	1268	5	21.8	-2	54.0	8.5 1 v
52	-4°	1121	5	18.3	-4	0.8	q.0 1 v
53	-4°	1122	5	18.5	-4	6.2	q.0 1 v
54	-4°	1131	5	19.5	-4	11.1	q.0 1 v

cards made out

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

Thursday, Jan. 2, 1913

B 12 391 short exp.

No	Int.	Class	Remark
55	3	Ao	
56	2	K5	
57	3	Ao	
58	2	F2	
59	4	F3g	
60	3	Ao	
61	3	Ao	
62	2	go	
63	6	F3g	
64	3	F3g	
65	5	F3f	
66	6	Ao	
67	2	K0	
68	3	F3g	
69	5	F3g	
70	3	F3g	
71	5	F3f	
72	2	F3g	
73	3	F3g	
74	4	Ao	
75	6	F3f	
76	3	F3g	
77	4	F3g	
78	4	Ao	
79	3	Ao	
80	5	F0	
81	4	F3g	

55	-4°	1130	5	19.5	-4	19.5	9.3
56	-4°	1132	5	19.8	-4	25.8	8.6
57	-4°	1142	5	21.4	-4	19.5	9.2
58	-3°	1112	5	21.5	-3	59.8	8.9
59	-2°	1262	5	21.7	-2	17.4	8.9
60	-2°	1266	5	22.0	-2	7.0	8.5
61	-2°	1268	5	22.6	-2	21.8	9.0
62	-2°	1271	5	23.0	-2	25.0	9.0
63	-2°	1274	5	23.6	-2	28.1	8.8
64	-2°	1275	5	23.7	-2	48.6	9.0
65	-2°	1278	5	24.0	-2	5.8	8.6
66	-2°	1279	5	24.0	-2	12.4	8.5
67	-1°	929	5	24.4	-1	58.9	8.8
68	-2°	1285	5	25.4	-2	8.4	9.0
69	-2°	1286	5	25.6	-2	17.7	9.0
70	-1°	931	5	24.7	-1	34.2	9.3
71	-1°	933	5	24.9	-1	42.4	8.8
72	-1°	928	5	24.3	-1	14.0	9.0
73	-1°	936	5	25.4	-1	8.0	9.2
74	-0°	989	5	26.0	-0	53.2	8.9
75	-1°	938	5	25.7	-1	21.0	8.6
76	-1°	942	5	26.1	-1	10.0	9.1
77	-1°	948	5	26.7	-1	50.5	8.8
78	-1°	952	5	27.3	-1	50.7	9.1
	-1°	956	6	27.9	-1	53.8	9.3
79	-2°	1803	5	27.9	-2	0.7	9.0
80	-1°	961	5	28.2	-1	56.5	8.9
81	-1°	968	5	28.7	-1	51.1	8.8

cards made out

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

Thursday. Jan. 2, 1913
B13 291 slant disp.

No.	Int	Class	Remark
82	5	B8	
83	7	B8	
84	5	B9	
85	6	B9	
86	3	B9	
87	2	A0	
88	3	B9	
89	4	A0	
90	3	A0	
91	3	A0	
92	2	A0	
93	2	A0	
94	2	A2	
95	2	A2	
96	3	A0	
97	6	B9	
98	2	F8	
99	3	A0	
100	5	A2	
Time 12.55	101	2	F5
	102		
	103		

102	14	A3						
103	5	B3						
104	3	F5						

82	-1°	971	5	29.0	-1	43.4	8.6	∧ ∨
83	-2°	1311	5	29.2	-2	5.1	8.5	∧ ∨
84	-1°	974	5	29.3	-1	7.4	9.0	∧ ∨
85	-0°	1017	5	28.7	-0	53.0	8.5	∧ ∨
86	-0°	1018	5	28.9	-0	23.6	9.2	∧ ∨
87	-0°	1016	5	28.7	-0	24.5	9.3	∧ ∨
88	-0°	1011	5	28.2	-0	0.5	8.9	∧ ∨
89	-0°	992	5	26.3	-0	8.0	8.8	∧ ∨
90	-0°	993	5	26.4	-0	10.4	8.8	∧ ∨
91	-0°	997	5	26.7	-0	22.3	9.1	∧ ∨
92	-0°	991	5	26.2	-0	22.1	9.3	∧ ∨
93	-0°	990	5	26.1	-0	32.3	9.0	∧ ∨
94	-1°	955	5	27.8	-1	30.0	9.3	∧ ∨
95	-1°	957	5	28.0	-1	7.9	9.3	∧ ∨
96	-1°	964	5	28.4 28.5	-1	1.1	9.3	∨
		958	5		-1	8.7	7.5	
97	-1°	965	5	28.4 5	-1	5.9	8.7	∧ ∨ Both° Jeo.
98	+0°	1089	5	21.8 +0		5.3	8.9	
		1091	5	22.3 +0		3.8	9.0	∨
99	+0°	1088	5	21.6 +0		11.5	9.1	
		1089	5	21.8 +0		5.3	8.9	∨
100	-5°	1162	5	0.7	-5	16.3	3	∧ Prismatic companion
101	-5°	1220	5	12.3	-5	35.9	8.5	∧ ∨

Identified by ANC. Jan. 8, 1913
Checked Jan. 11 1913.
cards made out by M.C.W.
Cards checked by E.K.B.

102	+2°	945	5	16.8	+2	25	9.1	65 m B39685
103	-2	1254	5	20.5	-2	16	8.0	83 m J37850
104	-5	1295	5	26.4	-5	43	9.1	4 m J21366

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

April 28, 1916

B 12391

102	3	A0		
103	3	A2		
104	3	A5		
105	4	A0		
106	4	A	Star sup. at north; prob. nearer clos. Luna dble.	
107	2	G5		
108	1	K5		
109	4	A0		
110	1	K0		
111	1	G0		
112	4	B9		
113	4	A0		
✓ 114	4	F5		
✓ 115	4	A0		
✓ 116	1	K0		
✓ 117	2	F8		
118	2	K5		

✓	102	+1°	1022	5	20.7	+1	26	9.0	89 on I 37594
✓	103	+0°	1076	5	20.1	+0	8	9.2	110 " "
✓	104	−1°	904	5	20.6	−1	5	9.2	99 " "
✓	105	−1°	914	5	22.5	−1	46	9.0	28 " "
✓	106	−2°	1258	5	20.9	−2	4	8.5	31 " "
✓	107	−0°	981	5	24.3	−0	0	9.0	20 " "
✓	108	+0°	1108	5	25.0	+0	58	8.9	71 " "
✓	109	+0°	1054	5	18.2	+0	14	9.2	109 " "
✓	110	+0°	1075	5	19.9	+0	54	9.4	103 " "
✓	111	−5°	1168	5	18.8	−5	11	9.0	38 " B 14664
✓	112	−2°	1297	5	27.0	−2	29	8.5	75 " B 10366
✓	113	−2°	1305	5	28.0	−2	29	9.0	76 " "
	114	−2°	1307	5	28.5	−2	28	8.5	✓
	115	−2°	1309	5	28.9	−2	22	8.8	✓
	116	−3°	1135	5	26.3	−3	13	8.8	✓
	117	−3°	1139	5	27.0	−3	33	9.2	✓

Ident. on cards by A.M.C. Jan 4, 1917

✓	118	−4	1042	"	in tooth	"	M.A.H.	"	" "
				4	19.5	−4	42	8.3	37 on B 14664

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

Wednesday May 3, 1916

Cont from page 54 B12259

No.	Dist.	Class	Remark-
119	8	Q3	
120	5	Q5	

~	119	−33°	1569	H	3.5	−33	12	7.1	on B4180
~	120	−31°	1744	4	8.3	−31	36	8.0	90 " "

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