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1913phae.proj.21526

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This book was examined for additional stars by A.M.C. Jan. 5, 1917

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Tuesday, May 6, 1913.

Time: 9.49

I 38240 long disp 9 4 +5-0.1

No.	Int.	Class	Remark
1	7	F0	E.
2	2	g	E.
3	3	g5	E.
4	7	F0	
5	7	F0	
6	8	A0	
7	1	g	
8	3	F0	
9	1	F0	
10	10+	F0	
11	3	F5	
12	2	F5	
13	1	F0	
14	1	F8	
15	2	A2	
16	2	F8	
17	4	F5	
18	10+	A0	
19	1	F8	
20	2	F5	
21	8	F5	
22	2	g0	
23	3	g0	
24	1	F0	
25	5	F0	
26	4	F2	
27	1	g	

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1	+45°	1649	8	42.3	+45	50.7	6.5	✓
2	+45°	1658	8	46.0	+45	12.8	8.0	✓
3	+44°	1807	8	47.4	+44	58.8	7.0	✓
4	+46°	1458	8	46.7	+46	18.9	7.2	✓
5	+46°	1459	8	47.0	+46	12.4	6.5	✓
6	+46°	1463	8	49.6	+46	18.9	7.2	✓
7	+46°	1461	8	48.2	+46	54.2	8.6	✓
8	+47°	1625	8	48.4	+47	18.4	7.9	✓
9	+48°	1705	8	48.4	+48	36.0	8.0	✓
10	Trail of +48°	1707	8	49.3	+48	35.9	3.1	✓
11	+48°	1708	8	49.3	+48	49.6	7.9	✓
12	+49°	1790	8	49.8	+49	15.0	8.9	✓
13	+49°	1791	8	50.4	+49	5.5	8.9	✓
14	+47°	1629	8	51.8	+47	53.1	8.8	✓
15	+47°	1630	8	52.0	+47	55.6	8.8	✓
16	+48°	1713	8	53.1	+48	9.1	8.8	✓
17	+48°	1716	8	53.3	+48	14.5	8.0	✓
18	+47°	1633	8	53.7	+47	43.7	3.5	✓
19	+48°	1712	8	53.0	+48	43.5	9.0	✓
20	+49°	1797	8	53.3	+49	37.4	8.4	✓
21	+49°	1801	8	55.4	+49	6.2	6.5	✓
22	+47°	1637	8	57.0	+47	42.4	8.8	✓
23	+47°	1638	8	57.2	+47	44.0	8.4	✓
24	+47°	1641	8	58.2	+47	54.1	8.7	✓
25	+47°	1642	8	58.2	+47	59.6	7.7	✓
26	+47°	1645	9	01	+47	35.8	8.0	✓
27	+47°	1639	8	57.3	+47	15.4	8.4	✓

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Tuesday, May 6, 1913.
I 38240 long disp.

No.	Int.	Class	Remark
28	1	K	
29	4	K0	E.
30	2	F8	
31	1	G5	E.
32	1	G5	E.
33	1	G	E.
34	5	F8	
35	1	G	
36	8	A0	
37	2	A3	
38	6	A0	
39	2	G5	
40	5	K0	
41	1	G5	
42	1	A2	
43	2	F5	E.
44	1	K0	E.
45	2	K0	
46	6	G5	
47	1	K0	
48	2	K0	
49	5	A2	Lines 4077 + 4128, 31 well marked.
50	3	K0	
51	3	F5	
52	2	G5	
53	7	A5	
54	4	F0	

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28	+46°	1472	8	56.6	+46	44.3	8.6 ✓
29	+45°	1688	9	2.1	+45	24.2	7.3 ✓
30	+46°	1478	9	2.3	+46	5.8	8.3 ✓
31	+46°	1480	9	3.3	+46	15.9	8.5 ✓
32	+46°	1484	9	5.8	+46	3.5	8.4 ✓
33	+45°	1695	9	6.7	+45	31.7	8.3 ✓
34	+47°	1650	9	3.9	+47	35.4	7.5 ✓
35	+47°	1653	9	5.1	+47	14.1	8.7 ✓
36	+47°	1658	9	7.8	+47	25.7	6.5 ✓
37	+46°	1490	9	8.6	+46	46.3	8.5 ✓
38	+47°	1660	9	9.5	+47	34.1	7.2 ✓
39	+46°	1492	9	11.5	+46	28.8	8.0 ✓
40	+45°	1708	9	11.8	+45	58.5	6.8 ✓
41	+47°	1666	9	13.1	+47	43.1	8.8 ✓
42	+47°	1667	9	13.8	+47	24.2	9.1 ✓
43	+46°	1497	9	14.8	+46	16.4	8.5 ✓
44	+45°	1717	9	15.8	+45	13.8	7.8 ✓
45	+46°	1506	9	18.3	+45	22.8	8.0 ✓
46	+46°	1509	9	19.2	+46	13.9	5.5 ✓
47	+47°	1671	9	15.5	+47	56.6	8.5 ✓
48	+48°	1770	9	16.7	+48	18.0	8.4 ✓
49	+48°	1773	9	17.3	+48	23.9	7.5 ✓
50	+49°	1841	9	18.5	+49	30.7	8.0 ✓
51	+48°	1776	9	20.9	+48	29.5	8.0 ✓
52	+47°	1676	9	19.4	+47	49.2	8.3 ✓
53	+47°	1683	9	24.8	+47	32.5	6.8 ✓
54	+48°	1780	9	13.0	+48	47.9	7.3 ✓

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Tuesday, May 6, 1913.

I 38240 long disp.

Ser.	Int.	Class	Remark
55	2	K0	
56	7	A3	
57	3	K0	
58	5	K5	
59	3	K5	E.
60	3	G5	
61	2	G5	
62	2	K0	
63	2	G5	
64	2	K2	
65	1	K2	
66	4	G5	
67	7	A2	
68	2	A2	
69	1	G0	
70	2	G5	
71	4	G5	
72	6	B5	
73	3	G5	
74	5	K0	
75	10	A2	
76	1	K0	Hue & faftus.
77	3	G5	
78	5	K2	
79	1	G5	
80	4	K0	
81	3	A2	

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55	+48°	1779	9	22.9	+ 48	57.2	7.6	✓
56	+50°	1657	9	23.4	+50	4.6	6.8	✓
57	+49°	1848	9	24.8	+49	23.8	8.0	✓
58	+49°	1850	9	26.2	+49	7.8	7.0	✓
59	+49°	1853	9	27.8	+49	56.2	8.7	✓
60	+49°	1784	8	45.7	+49	38.5	7.8	✓
61	+49°	1785	8	47.2	+49	2.1	8.0	✓
62	+49°	1787	8	47.4	+49	25.1	8.4	✓
63	+48°	1700	8	46.2	+48	18.1	8.8	✓
64	+50°	1596	8	49.6	+50	17.5	8.7	✓
65	+50°	1598	8	50.7	+50	26.3	8.8	✓
66	+50°	1599	8	51.4	+50	17.1	8.2	✓
67	+50°	1601	8	52.9	+50	31.9	7.2	✓
68	+50°	1604	8	54.6	+50	47.0	9.1	✓
69	+50°	1605	8	54.8	+50	28.6	9.1	✓
70	+50°	1606	8	55.3	+50	52.4	8.5	✓
71	+50°	1607	8	55.5	+50	52.4	8.1	✓
72	+50°	1608	8	56.3	+50	12.0	7.5	✓
73	+51°	1482	8	56.4	+51	12.7	8.5	✓
74	+52°	1362	8	56.9	+52	12.7	7.3	✓
75	+52°	1365	8	58.6	+52	11.8	5.0	✓
76	+52°	1370	8	59.8	+52	0.6	8.9	✓
77	+51°	1485	8	58.8	+51	22.6	8.0	✓
78	+50°	1614	8	59.8	+50	25.3	7.7	✓
79	+49°	1808	8	58.8	+49	53.6	9.2	✓
80	+49°	1809	8	58.9	+49	53.6	7.5	✓
81	+49°	1810	8	59.4	+49	31.8	8.5	✓

magn. 8.5 +50° 1600 superposed

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Tuesday, May 6, 1913.

I 38240 Long disp.

No	Int.	Class	Remark
82	1	g_5	
83	2	g_5	
84	2	g_3	
85	5	g_5	
86	1	I_5	
87	8	a_0	
88	1	g	
89	1	g	
90	1	I	
91	3	a_3	
92	2	I_0	
93	1	g	
94	1	I_5	
95	4	g_5	
96	4	a_0	
97	2	g_5	
98	2	I_0	
99	1	K_0	
100	1	g_5	
101	2	K_0	
102	3	g_5	
103	1	a_2	
104	7	P_9	
105	5	F_2	
106	& 1	K	
107	1	g_5	
108	2	a_2	

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82	+48°	1729	8	59.9	+48	44.3	8.9 ✓
83	+48°	1733	9	2.4	+48	53.6	8.8 ✓
84	+48°	1735	9	3.4	+48	59.2	8.7 ✓
85	+49°	1815	9	2.5	+49	47.7	7.7 ✓
86	+50°	1623	9	3.4	+50	3.6	9.1 ✓
87	+51°	1488	9	1.8	+51	2.8	6.5 ✓
88	+51°	1487	9	0.9	+51	53.6	9.1 ✓
89	+52°	1374	9	3.2	+52	8.4	9.1 ✓
90	+51°	1490	9	5.0	+51	45.3	9.3 ✓
91	+51°	1493	9	7.0	+51	54.9	9.0 ✓
92	+51°	1492	9	6.0	+51	16.1	8.6 ✓
93	+51°	1489	9	4.5	+51	2.8	9.0 ✓
94	+50°	1626	9	4.9	+50	33.3	9.1 ✓
95	+49°	1818	9	6.3	+49	32.8	7.9 ✓
96	+48°	1744	9	5.8	+48	49.4	7.8 ✓
97	+48°	1746	9	6.2	+48	18.0	8.5 ✓
98	+48°	1749	9	7.5	+48	56.2	8.2 ✓
99	+49°	1821	9	8.5	+49	32.0	8.4 ✓
100	+49°	1820	9	7.1	+49	18.9	8.7 ✓
101	+48°	1751	9	10.0	+48	42.3	8.3 ✓
102	+49°	1831	9	11.0	+49	12.7	8.0 ✓
103	+49°	1832	9	11.2	+49	43.2	8.5 ✓
104	+50°	1633	9	12.6	+50	8.1	6.8 ✓
105	+49°	1833	9	12.6	+49	1.5	7.3 ✓
106	+48°	1756	9	12.1	+48	26.0	9.3 ✓
107	+48°	1763	9	14.5	+48	33.9	9.0 ✓
108	+49°	1838	9	16.1	+49	33.8	9.1 ✓

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Tuesday, May 6, 1913.

I 38 240 long disp.

	No	Int	Class	Remark
	109	1	ly	
	110	2	Ma	
	111	1	F8	
	112	3	Ma	
	113	5	ly5	
	114	1	F0	
	115	7	ly0	
	116	2	A3	
	117	1	ly5	
	118	10+	F5	
	119	4	A3	
	120	10+	A0	
	121	4	F8	
10.10	122	1	F2	
10.14	123	7	A0	
	124	2	F5	
	125	1	F	
	126	2	ly5	
	127	1	G2	
	128	2	~~P26~~ VI	~~Maybe class P.~~ Look up. Absorption bands clearly seen.
	129	3	F2	
	130	1	G	
	131	2	ly	
	132	2	ly5	
	133	4	F0	
	134	8	F2	
	135	4	ly5	

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109	+50°	1638	9	16.3	+50	13 ~~18~~.6	9.1 ✓
110	+50°	1640	9	17.1	+50	19.5	8.0 ✓
111	+50°	1641	9	17.5	+50	4.1	9.1 ✓
112	+50°	1644	9	19.1	+50	39.1	7.7 ✓
113	+50°	1635	~~8~~ 9	14.8	+50	53.9	7.5 ✓
114	+51°	1507	9	14.7	+51	31.9	8.5 ✓
115	+52°	1389	9	14.9	+52	12.0	6.7 ✓
116	+52°	1390	9	15.2	+52	22.3	9.0 ✓
117	+52°	1395	9	19.5	+52	10.7	8.9 ✓
118	+52°	1401	9	23.1	+52	20.8	3.0 ✓
119	+53°	1347	9	23.8	+53	4.1	7.5 ✓
120	+52°	1402	9	24.9	+52	42.5	5.0 ~~8.0~~ ✓
121	+50°	1582	8	42.4	+50	29.5	7.7 ✓
122	+50°	1589	8	44.6	+50	48.0	8.5 ✓
123	+51°	1460	8	46.9	+51	17.6	7.2 ✓
124	+51°	1465	8	49.1	+51	43.9	8.5 ✓
125	+51°	1466	8	49.7	+51	43.4	9.0 ✓
126	+51°	1468	8	50.4	+51	29.0	8.5 ✓
127	+51°	1461	8	47.5	+51	42.4	8.6 ✓
128	+51°	1462	8	47.6	+51	59.2	8.7 ✓
129	+52°	1352	8	48.3	+52	22.7	8.0 ✓
130	+52°	1351	8	47.8	+52	51.9	8.8 ✓
131	+51°	1458	8	44.1	+51	46.8	8.9 ✓
132	+50°	1580	8	41.7	+50	56.4	8.3 ✓
133	+52°	1380	~~8~~ 9	9.1	+52	14.3	8.2 ✓
134	+51°	1495	~~8~~ 9	10.6	+51	53.3	6.5 ✓
135	+51°	1496	~~8~~ 9	11.0	+51	54.6	8.2 ✓

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Tuesday, May 6, 1913.
I 38240 long disks.

No.	Int.	Class	Remark
136	1	F5	
137	2	F2	
138	1	G5	Nearly all underbreed on 139.
139	2	G5	
140	2	K E.	
141	R3	K5	
142	4	A2	
143	2	K	
Time: 10.20	144	2	F0
~~145~~			
145	6	K2	
146	4	A5	

cmh, 125, 128

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136	+51°	1494	9	9.9	+51	4.7	8.5	✓
137	+51°	1499	9	12.4	+51	37.4	8.3	✓
138	+51°	1500	9	12.6	+51	13.2	8.4	double. Only one DM. Number
139	+51°	1500	9	12.6	+51	13.2	8.4	✓
140	+53°	1397	9	8.7	+53	5.5	8.8	✓
141	+53°	1397	9	7.1	+53	16.9	8.5	✓
142	+53°	1326	9	7.1	+53	30.7	8.7	✓
143	+53°	1822	9	5.9	+53	10.0	9.0	✓
144	+54°	1283	9	4.7	+54	5.4	8.5	✓

Identified by M. C. W. June 18, 1913.
Checked by A.M.C. June 19, 1913
cards made out by M. C. W.

145	+51°	1478	8	55.1	+51	23.9	6.8	✓

Checked by A. J. C.

146	+52°	1371	9	0.0	+52	59	8.0	✓

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Tuesday, May 6, 1913.

Time: 10.30

I 38336 long disp. 9 32 + 46.3

	No.	Int.	Class	Remarks.
	1	2	F2	E.
	2	5	F5	E.
	3	3	F8	E.
	4	7	F0	
×	5	3	F2	
	6	1	ly	
	7	2	ly	
	8	5	F5	
	9	3	A0	
	10	6	ly0	
	11	1	ly	
	12	4	F0	
	13	3	ly5	
	14	7	A5	
	15	3	Nb	
	16	1	F0	
	17	5	F0	
	18	4	A3	
	19	2	ly5	
	20	1	F5	
	21	2	ly0	
	22	2	A3	
	23	7	F0	
	24	2	F0	
	25	2	F8	
	26	3	F8	
	27	3	F0	

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1	+41°	1961	9	17.6	+41	39.3	7.3 ✓
2	+41°	1963	9	18.5	+41	49.2	7.3 ✓
3	+42°	2011	9	18.2	+42	13.9	7.7 ✓
4	+43°	1915	9	18.2	+43	23.3	6.8 ✓
5	+43°	1921	9	19.7	+43	50.7	8.1 ✓
6	+43°	1923	9	20.2	+43	39.9	8.8 ✓
7	+43°	1925	9	20.8	+43	38.8	8.4 ✓
8	+42°	2016	9	20.8	+42	53.8	7.3 ✓
9	+42°	2018	9	22.9	+42	58.1	8.3 ✓
10	+44°	1973	9	22.9	+44	23.3	7.3 ✓
11	+44°	1875	9	23.4	+44	5.1	8.9 ✓
12	+43°	1930	9	23.7	+43	56.7	7.8 ✓
13	+44°	1874	9	23.1	+44	51.9	8.2 ✓
14	+45°	1726	9	21.2	+45	24.1	7.2 ✓
15	+45°	1728	9	21.5	+45	19.0	7.5 ✓
16	+45°	1731	9	22.7	+45	41.6	8.6 ✓
17	+46°	1521	9	23.7	+46	9.1	6.8 ✓
18	+45°	1734	9	24.6	+45	55.6	7.7 ✓
19	+44°	1880	9	25.8	+44	18.1	8.3 ✓
20	+43°	1934	9	24.9	+43	56.2	8.7 ✓
21	+43°	1935	9	26.9	+43	36.7	8.5 ✓
22	+43°	1938	9	28.2	+43	44.2	8.7 ✓
23	+43°	1943	9	30.0	+43	47.7	6.5 ✓
24	+43°	1944	9	30.2	+43	36.3	7.5 ✓
25	+43°	1942	9	29.8	+43	21.4	8.7 ✓
26	+42°	2032	9	30.3	+42	56.0	7.9 ✓
27	+42°	2033	9	30.5	+42	43.0	7.5 ✓

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1913phae.proj.2152c

Tuesday, March 4, 1913.
Ξ 38336 Long disp.

No.	Int.	Class	Remark
28	4	Jo	
29	7	Fo	
30	1	Ns	
31	5	Jo	
32	3	A2	
33	3	Js	
34	7	A3	Lines narrow.
35	3	Fs	
36	4	F2	
37	2	Gs	
38	5	Jo	
39	2	F8	
40	10	Go	
41	2	A2	
42	2	Jo	
43	4	Fs	
44	6	F2	
45	2	Go	
46	3	Gs	
47	5	A2	
48	3	Fs	
49	1	Gs	
50	2	F8	
51	3	Jo	
53	2	Fs	
53	1	Gs	
54	2	Ko	

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28	+43°	1947	9	32.0	+43	14.3	8.2 ✓
29	+44°	1892	9	31.7	+44	38.5	7.5 ✓
30	+44°	1894	9	32.3	+44	51.4	8.5 ✓
31	+44°	1895	9	32.6	+44	17.6	7.2 ✓
32	+43°	1952	9	33.6	+43	42.7	8.5 ✓
33	+43°	1953	9	34.3	+43	23.0	8.0 ✓
34	+43°	2041	9	35.0	+42	42.9	6.9 ✓
35	+43°	1958	9	35.8	+43	54.1	8.0 ✓
36	+45°	1754	9	34.5	+45	22.7	7.5 ✓
37	+45°	1757	9	35.6	+45	4.8	8.0 ✓
38	+45°	1762	9	37.4	+45	46.2	7.0 ✓
39	+46°	1548	9	37.4	+46	15.4	8.5 ✓
40	+46°	1551	9	39.2	+46	42.0	5.9 ✓
41	+47°	1707	9	39.9	+47	18.0	8.5 ✓
42	+47°	1709	9	40.4	+47	5.1	8.2 ✓
43	+46°	1556	9	41.7	+46	13.3	7.8 ✓
44	+45°	1769	9	41.3	+45	45.2	8.8 ✓
45	+44°	1909	9	39.9	+44	57.2	8.5 ✓
46	+44°	1907	9	39.4	+44	12.1	7.3 ✓
47	+44°	1908	9	39.6	+44	20.2	7.0 ✓
48	+44°	1913	9	41.1	+44	39.7	7.8 ✓
49	+44°	1915	9	42.8	+44	28.7	8.8 ✓
50	+44°	1920	9	43.6	+44	43.3	8.3 ✓
51	+44°	1918	9	43.4	+44	9.1	7.8 ✓
52	+43°	1962	9	38.9	+43	5.8	6.0 ✓
53	+43°	1961	9	38.0	+43	3.6	8.9 ✓
54	+42°	2051	9	41.8	+42	56.9	8.5 ✓

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Tuesday, May 6, 1913.
E 38 336 long disp.

No	Int.	Class	Remark.
55	2	Jfo	
56	3	Fs	
57	3	F8	
58	3	go	
59	3	gs	
60	4	gs	
61	3	go	
62	6	Jfo	
63	2	Jfo	
64	1	Jfo	
65	2	F8	
66	4	gs	
67	3	gs	
68	3	Jfo	
69	1	Jfo	
70	4	Fs	
71	1	gs	
72	1	Jf2	
73	1	Js	
74	1	J2	
75	3	Q2	
76	1	Jfo	
77	2	Js	
78	1	gs	
79	3	F8	
80	1	Jfs	
81	1	Jfs	

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55	+42°	2061	9	45.7	+42	51.1	8.5 ✓
56	+43°	1972	9	45.4	+43	57.7	8.7 ✓
57	+44°	1925	9	45.5	+44	28.0	8.5 ✓
58	+44°	1924	9	45.3	+44	55.4	8.6 ✓
59	+45°	1774	9	45.7	+45	21.8	8.9 ✓
60	+45°	1778	9	46.6	+45	52.0	8.7 ✓
61	+46°	1565	9	48.1	+46	36.9	8.4 ✓
62	+46°	1567	9	48.8	+46	5.8	6.6 ✓
63	+48°	1820	9	47.5	+48	10.4	8.5 ✓
64	+47°	1724	9	47.8	+47	59.8	8.5 ✓
65	+47°	1726	9	48.7	+47	38.6	6.2 ✓
66	+48°	1822	9	48.7	+48	65.1	7.7 ✓
67	+46°	1522	9	24.0	+46	52.2	8.3 ✓
68	+46°	1525	9	24.8	+46	41.2	8.5 ✓
69	+46°	1524	9	24.3	+46	59.2	8.6 ✓
70	+46°	1528	9	28.4	+46	33.8	7.8 ✓
71	+46°	1529	9	28.9	+46	34.8	8.8 ✓
72	+47°	1687	9	29.2	+47	4.6	8.4 ✓
73	+45°	1742	9	28.4	+45	4.3	8.4 ✓
74	+44°	1886	9	28.6	+44	50.9	8.5 ✓
75	+45°	1748	9	31.3	+45	10.8	8.5 ✓
76	+47	1693	9	30.8	+47	7.7	8.4 ✓
77	+46°	1532	9	32.2	+46	52.7	8.9 ✓
78	+46°	1538	9	32.8	+46	30.9	9.0 ✓
79	+46°	1535	9	33.4	+46	10.8	8.5 ✓
80	+46°	1545	9	36.7	+46	32.8	8.5 ✓
81	+48°	1796	9	33.1	+48	8.1	8.9 ✓

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Tuesday, May 6, 1913.

I 38336 long disp.

No.	Int.	Class	Remarks.
82	7	K0	
83	9	A0	
84	3	K0	
85	1	ly	
86	3	A3	
87	3	K2	
88	4	K0	
89	4	ly5	
90	5	ly0	
91	5	ly5	E.
92	5	K0	E.
93	10	A2	E.
94	4	A2	
95	2	K0	
96	8	A0	
97	2	ly0	
98	3	K8	
99	2	K5	
100	4	K5	
101	2	ly5	
102	1	ly5	
103	2	K0	
104	1	ly	
10.47 105	1	ly	
106			
107			
108			

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82	+49°	1887	9	32.8	+49	26.3	7.0	✓
83	+49°	1888	9	33.2	+49	4.8	6.5	✓
84	+49°	1876	9	35.3	+49	15.8	8.5	✓
85	+48°	1801	9	36.2	+48	43.9	9.0	✓
86	+48°	1805	9	37.8	+48	42.1	8.3	✓
87	+49°	1880	9	38.5	+49	43.2	8.0	✓
88	+49°	1885	9	40.6	+49	44.7	7.5	✓
89	+49	1889	9	42.8	+49	52.2	7.6	✓
90	+50°	1689	9	42.4	+50	17.1	7.5	✓
91	+51°	1553	9	43.7	+51	18.6	7.0	✓
92	+51°	1555	9	44.5	+51	12.7	8.2	✓
93	+50°	1698	9	46.2	+50	30.5	8.6	✓
94	+49°	1896	9	46.2	+49	8.7	7.8	✓
95	+49°	1894	9	45.1	+49	2.4	8.4	✓
96	+50°	1702	9	49.3	+50	49.9	7.0	✓
97	+48°	1788	9	28.2	+48	39.3	8.3	✓
98	+48°	1789	9	28.5	+48	13.0	7.7	✓
99	+49°	1855	9	28.3	+49	38.8	8.7	✓
100	+49°	1853	9	27.8	+49	56.2	8.7	✓
101	+48°	1787	9	26.6	+48	11.0	8.9	✓
102	+47°	1677	9	20.5	+47	27.7	9.0	✓
103	+45°	1513	9	20.2	+45	47.3 / ~~43.3~~	8.5 / ~~9.1~~	✓
104	+47°	1678	9	21.0	+47	3.1	9.0	✓
105	+45°	1517	9	21.1	+45	42.3	8.8	✓

Identified by M. C. W. May 26. 1913
checked by A.M.C. June 4, 1913
cards made out by M. C. W.

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Wednesday, May 7. 1913.

Time: 9.56

$\pm$38291 long. disp. 10 04 +46.2

No.	Int.	Class	Remark.
1	2	F8	
2	1	K0	
3	3	G5	Another star superposed?
4	4	K2	
5	1	K0	
6	2	K0	
7	2	A2	
8	3	F8	
9	2	Ma	E.
10	2	G5	E.
11	1	G5	E.
12	2	K2	
13	1	F	
14	1	G5	
15	1	F5	
16	2	F2	
17	3	K2	
18	6	K0	E.
19	2	F2	
20	1	G5	
21	5	F2	
22	7	F5	
23	5	Ma	
24	4	F8	
25	4	A0	Trail of a bright star.
26	2	F8	
27	7	G5	

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1	+44°	1931	9	47.5	+44	39.6	8.2	✓
2	+43°	1975	9	48.4	+43	52.2	8.5	✓
3	+44°	1938	9	49.9	+44	8.6	8.0	✓
4	+43°	1980	9	51.1	+43	0.6	7.0	✓
5	+42°	2069	9	49.2	+42	17.1	8.0	✓
6	+43°	1988 (4)	9	52.5	+43	48.2 (1 3)	8.2 (2)	^ ✓
7	+43°	1984 (6)	9	52.5 (9)	+43	~~41.3~~ 29.8	8.2 (7)	^ ✓
8	+43°	1988	9	55.6	+43	4.6	8.0	✓
9	+42°	2080	9	54.6	+42	0.0	7.3	✓
10	+41°	2052	9	57.4	+41	47.8	8.1	✓
11	+41°	2054	9	57.4	+41	36.6	8.0	✓
12	+42°	2086	9	58.0	+42	59.6	8.1	✓
13	+44°	1952	9	57.5	+44	15.6	9.0	✓
14	+43°	1990	9 (8 8)	58.4	+43	~~52.9~~ 43.8	8.9	^ ✓
15	+44°	1956	9 (10)	1.0	+44	3.6	8.8	✓
16	+44°	1958	10	3.1	+44	15.6	8.5	✓
17	+42°	2095	10	2.7	+42	26.6	7.5	✓
18	+41°	2063	10	2.2	+41	22.6	6.5	✓
19	+42°	2100	10	4.7	+42	35.5	8.1	✓
20	+42°	2102	10	5.1	+42	32.5	8.3	✓
21	+42°	2104	10	6.7	+42	35.0	7.5	✓
22	+41°	2066	10	7.9	+41	59.7	7.3	✓ +42° 2107 Superposed magn. 8.5
23	+42°	2108	10	8.6	+42	11.2	6.8	✓
24	+43°	2002	10	7.4	+43	31.8	8.0	✓
25	+43°	2005	10	8.3	+43	39.8	8.5	✓ Trail
26	+43°	2006	10	8.5	+43	21.9	8.5	✓
27	+43°	2007	10	9.8	+43	47.2	7.0	✓

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Wednesday, May 7. 1913.
I 38291 long disps.

No.	Dist.	Class	Remark.
28	4	F0	
29	7	G5	
30	5	F5	
31	6	F0	
32	8	A0	
33	2	F5	E.
34	7	F5	E.
35	10	K5	E. Maybe Mira.
36	1	F	
37	2	K0	
38	8	A2	
39	3	K0	
40	1	K5	
41	4	F2	
42	1	F	
43	2	F2	
44	2	G0	
45	1	K0	
46	1	F	
47	2	F0	
48	2	K2	
49	2	F5	
50	1	G	
51	1	F5	
53	5	F8	
53	2	G	
54	6 =	K0	

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28	+44°	1972	10	9.6	+44	29.4	7.7 ✓
29	+44°	1973	10	10.0	+44	46.0	6.5 ✓
30	+44°	1977	10	13.2	+44	38.6	7.3 ✓
31	+43°	2011	10	13.9	+43	20.8	7.6 ✓
32	+42°	2114	10	12.4	+42	34.5	6.7 ✓
33	+41°	2072	10	11.7	+41	51.7	8.0 ✓
34	+41°	2076	10	13.6	+41	56.9	6.5 ✓
35	+42°	2115	10	13.7	+42	14.1	3.1 ✓
36	+42°	2119	10	16.5	+42	56.8	8.8 ✓
37	+43°	2013	10	16.6	+43	27.2	7.8 ✓
38	+42°	2123	10	18.9	+42	20.3	7.0 ✓
39	+41°	2093	10	19.2	+41	56.9	7.5 ✓
40	+43°	2019	10	19.3	+43	43.6	8.5 ✓
41	+44°	1994	10	22.9	+44	0.8	8.0 ✓
42	+44°	1986	10	18.1	+44	19.9	8.7 ✓
43	+44°	1985	10	16.6	+44	60.8	8.2 ✓
44	+45°	1826	10	14.4	+45	8.2	8.5 ✓
45	+45°	1822	10	12.5	+45	23.3	8.2 ✓
46	+46°	1616	10	11.7	+46	26.3	8.9 ✓
47	+46°	1617	10	12.0	+46	42.2	8.5 ✓
48	+46°	1619	10	12.4	+46	58.1	7.7 ✓
49	+46°	1620	10	12.6	+46	53.1	8.7 ✓
50	+47°	1770	10	17.0	+47	11.8	8.6 ✓
51	+46°	1628	10	17.5	+46	54.1	8.8 ✓
52	+46°	1630	10	19.5	+46	54.6	7.5 ✓
53	+46°	1631	10	19.9	+46	42.2	8.3 ✓
54	+45°	1832	10	19.9	+45	56.8	6.5 ✓

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1913phae.proj.2152c

Wednesday, May 7, 1913.

I 38291 long disp.

No.	Int.	Class	Remarks
55	6	F0	
56	4	K2	
57	2	G0	
58	2	K2	
59	4	G5	E.
60	6	A5	E.
61	3	G	E.
62	5	K0	E.
63	2	G5	
64	1	A3	
65	1	K0	
66	4	A3	
67	2	K5	
68	7	F8	
69	3	F0	
70	1	K0	
71	2	G5	
72	1	G5	
73	3	G5	
74	1	G5	
75	4	K2	
76	6	F2	Line K apparently fainter than normal. Comp?
77	6	F5	
78	3	G5	
79	2	G5	
80	8	K0	
81	2	K0	

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55	+46°	1633	10	21.2	+46	35.7	7.7 ✓
56	+47°	1782	10	22.7	+47	35.9	7.3 ✓
57	+47°	1785	10	23.6	+47	15.7	8.5 ✓
58	+46°	1638	10	24.9	+46	39.6	7.8 ✓
59	+46°	1642	10	26.8	+46	24.3	7.2 ✓
60	+44°	1995	10	23.8	+44	56.8	7.0 ✓
61	+45°	1844	10	27.9	+45	15.3	8.0 ✓
62	+47°	1794	10	28.5	+47	18.2	7.7 ✓
63	+46°	1557	9	44.2	+46	22.3	8.5 ✓
64	+44°	1941	9	51.4	+44	41.6	8.7 ✓
65	+45°	1791	9	53.4	+45	16.4	8.4 ✓
66	+45°	1795	9	54.3	+45	19.8	8.0 ✓
67	+46°	1580	9	55.8	+46	2.8	8.0 ✓
68	+45°	1798	9	58.1	+45	46.7	7.3 ✓
69	+45°	1802	9	58.7	+45	57.2	8.2 ✓
70	+46°	1581	9	56.8	+46	20.8	8.4 ✓
71	+46°	1582	9	57.8	+46	36.2	8.5 ✓
72	+46°	1583	9	58.1	+46	47.7	8.3 ✓
73	+46°	1590	10	0.2	+46	59.1	8.4 ✓
74	+46°	1594	10	2.1	+46	56.6	8.5 ✓
75	+45°	1811	10	5.3	+45	49.7	7.8 ✓
76	+46°	1609	10	7.5	+46	9.8	7.2 ✓
77	+45°	1814	10	7.6	+45	45.7	7.5 ✓
78	+45	1819	10	8.6	+45	45.6	8.2 ✓
79	+44°	1967	10	7.3	+44	47.5	8.2 ✓
80	+47°	1761	10	10.0	+47	29.8	6.5 ✓
81	+46°	1613	10	9.7	+46	49.1	8.6 ✓

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1913phae.proj.2152c

Wednesday, May 7, 1913.

I 38291 long disp.

No.	Int.	Class	Remark.
82	3	K2	
83	3	G5	
84	7	F5	
85	5	G0	
86	1	G5	
87	4	G5	
88	4	K0	
89	2	G5	
90	1	K0	
91	6	F2	
92	3	F0	
93	4	K0	
94	4	K2	
95	4	K2	
96	2	K0	
97	4	A3	
98	7	F2	
99	6	K5	Somewhat pec. Two stars?
100	7	F0	E.
101	5	F8	
102	8	K0	
103	3	A2	
104	5	G0	
105	2	K5	
106	3	G5	
107	5	G5	
108	7	G5	

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82	+47°	1756	10	7.3	+47	40.5	8.0 ✓
83	+47°	1758	10	8.0	+47	30.8	8.6 ✓
84	+48°	1850	10	8.0	+48	2.1	7.5 ✓
85	+48°	1847	10	6.5	+48	4.7	7.5 ✓
86	+46°	1571	9	52.1	+46	48.7	8.6 ✓
87	+47°	1736	9	53.4	+47	4.5	7.2 ✓
88	+46°	1574	9	53.9	+46	53.6	7.0 ✓
89	+47°	1737	9	54.2	+47	50.1	8.5 ✓
90	+47°	1746	9	55.9	+47	16.0	8.4 ✓
91	+49°	1909	9	54.9	+49	17.4	7.2 ✓
92	+49°	1907	9	53.9	+49	54.1	8.2 ✓
93	+50°	1706	9	53.4	+50	33.6	7.5 ✓
94	+50°	1707	9	53.9	+50	48.9	6.7 ✓
95	+51°	1572	9	55.8	+51	14.6	7.0 ✓
96	+50°	1714	9	57.6	+50	3.4	8.4 ✓
97	+49°	1923	10	0.6	+49	19.7	8.6 ✓
98	+50°	1721	10	1.1	+50	13.3	7.2 ✓
99	+50°	1725	10	2.5	+50	11.4	6.8 ✓
100	+51°	1585	10	4.5	+51	12.7	6.5 ✓
101	+50°	1732	10	8.8	+50	17.6	7.3 ✓
102	+49°	1940	10	10.4	+49	7.5	6.0 ✓
103	+48°	1859	10	12.5	+48	35.5	8.5 ✓
104	+48°	1860	10	12.8	+48	46.9	7.5 ✓
105	+48°	1864	10	16.7	+48	17.6	8.0 ✓
106	+48°	1866	10	17.8	+48	49.4	8.3 ✓
107	+49°	1960	10	19.1	+49	42.2	6.6 ✓
108	+49°	1961	10	19.1	+49	32.8	6.2 ✓

cards made out

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1913phae.proj.2152C

Wednesday, May 7, 1913.

I 38.291 long disp.

No.	Int.	Class	Remark
109	2	g_5	
110	2.	F_2	
111	10	A_2	
112	8	A_0	
113	3.	F_5	
114	1	g_5	
Time: 10.20 115	1	F_0	

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1913phae.proj.2152C

109	+47°	1774	10	18.2	+47	40.0	8.3 ✓
110	+47°	1775	10	18.4	+47	27.0	8.6 ✓
111	+50°	1698	~~10~~ 9	46.2	+50	30.5	5.6 ✓
112	+50°	1702	~~10~~ 9	49.3	+50	49.9	7.0 ✓
113	+48°	1825	~~10~~ 9	50.4	+48	37.8	8.0 ✓
114	+47°	1732	9	52.1	+47	36.3	8.7 ✓
115	+47°	1735	9	53.2	+47	24.2	9.3 ✓

Identified by M. C. W. June 23, 1913

Checked by A.M.C. June 24, 1913

Corrections checked June 24, 1913 L.D.W.

cards made out by M. C. W.

Cards checked by A.M.C.

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1913phae.proj.2152C

Wednesday, May 7, 1913.

Time: 10.49 — B 24452 short exps. — q 00 - 77.5

No.	Int.	Class	Remarks
1	3	dy_5	
2	5	A_2	
3	3	K_0	
4	3	A_2	
5	5	Bg	
6	3	K_2	
7	3	A_0	
8	2	A_2	
9	2	K_2	
10	3	A_2	
11	3	K_2	
12	6	Bg	
13	4	A_0	
14	2	A_0	
15	7	A_0	
16	9	A_0	
17	3	A_0	
18	2	A_2	
19	6	A_0	
20	3	A_0	
21	3	A_0	Lines rather narrow.
22	3	K_0	
23	3	K_5	
24	4	dy_0	
25	2	A_2	
26	8	K_0	
27	9	F_5	

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1913phae.proj.2152C

1	-74°	509	8	26.8	-74	30.0	8.0 ✓
2	-74°	513	8	29.5	-74	56.6	7.1 ✓
3	-74°	520	8	33.3	-74	25.5	8.0 ✓
4	-74°	531	8	39.4	-74	37.4	8.0 ✓
5	-74°	536	8	43.2	-74	9.3	7.4 ✓
6	-74°	538	8	45.9	-74	19.7	8.1 ✓
7	-73°	528	8	45.0	-73	50.8	7.6 ✓
8	-74°	545	8	50.2	-74	35.3	8.0 ✓
9	-74°	550	8	55.0	-74	24.2	8.4 ✓
10	-73°	547	8	55.2	-73	33.6	7.9 ✓
11	-73°	548	8	57.4	-73	26.0	8.1 ✓
12	-73°	550	9	0.6	-73	54.6	6.8 ✓
13	-74°	563	9	7.0	-74	14.8	7.3 ✓
14	-73°	555	9	2.4	-73	41.5	7.7 ✓
15	-74°	580	9	17.6	-74	12.3	5.9 ✓
16	-74°	579	9	17.6	-74	22.0	5.5 ✓
17	-73°	592	9	19.9	-73	4.3	7.1 ✓
18	-75°	541	8	51.7	-75	11.2	7.9 ✓
19	-76°	544	8	48.1	-76	36.7	7.1 ✓
20	-76°	539	8	46.2	-76	35.5	7.7 ✓
21	-76°	538	8	45.6	-76	39.7	7.8 ✓
22	-76°	530	8	40.3	-76	17.7	8.3 ✓
23	-76°	528	8	38.6	-76	33.8	8.5 ✓
24	-76°	525	8	35.2	-76	30.0	8.3 ✓
25	-77°	395	8	30.9	-77	18.6	8.7 ✓
26	-77°	383	8	24.3	-77	4.9	5.8 ✓
27	-76°	507	8	21.7	-76	31.4	4.5 ✓

cards made out.

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1913phae.proj.2152c

Wednesday May 7, 1913.

B2445 2 short disps.

No.	Int.	Class	Remark
28	4	A_2	
29	2	A	Nearly all superposed on 28.
30	3	A_3	
31	4	K0	
32	2	K0	
33	3	A_0	
Time: 10.55	34	1	F8
~~35~~			
~~36~~			
~~37~~			
35	8	A2	
36	7	A5	

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1913phae.proj.2152C

28	-76°	514	8	25.6	-76	1.4	7.4	✓
29	-76°	515	8	25.7	-76	1.7	8.6	✓
30	-77°	384	8	24.4	-77	55.5	8.2	✓
31	-78°	297	8	13.3	-78	19.2	8.3	✓
32	-78°	284	8	6.6	-78	48.1	8.0	✓
33	-77°	460	8	57.4	-77	7.4	7.8	✓
34	-78°	366	8	40.4	-78	3.3	8.7	✓

Identified by J. C. M. July 25, 1913.
Checked by amc. Oct. 28, 1913
Cards made out by G.R.B.
Cards checked by amc.

35	-72°	747	8	49.9	-72	5	6.6	82 on B24527
36	-74	530	8	38.2	-74	8	7.2	86 on 4

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1913phae.proj.2152C

Wednesday, May 7, 1913.

Time: 11.10

B229 88 Short disp. 9 42 −72.2

No	Int.	Class	Remark
1	3	F2	E.
2	5	A0	E.
3	1	K	E.
4	2	A0	
5	10	G0	
6	3	F5	
7	4	A0	
8	6	A0	
9	4	A3	
10	3	A2	
11	2	K2	
12	2	A2	
13	1	K0	
14	3	F0	
15	2	K0	
16	1	K5	
17	2	G5	
18	7	A3	
19	8	A0	
20	3	G5	
21	2	A2	
22	1	A	
23	5	A3	
24	7	A0	
25	8	F0	
26	5	F0	
27	3	F2	

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1913phae.proj.2152C

1	-71°	773	8	56.7	-71	55.3	8.2	✓
2	-71°	779	9	0.6	-71	57.3	7.9	✓
3	-71°	777	8	0.0	-71	39.7	9.0	✓
4	-71°	781	9	1.6	-71	36.5	8.5	✓
5	-72°	779	9	4.8	-72	6.0	5.6	✓
6	-71°	794	9	9.5	-71	27.9	8.3	✓
7	-71°	795	9	9.8	-71	40.2	8.2	✓
8	-71°	802	9	12.8	-71	6.0	7.5	✓
9	-71°	805	9	14.8	-71	39.8	8.5	✓
10	-72°	785	9	9.7	-72	11.7	8.3	✓
11	-72°	792	9	12.1	-72	16.7	8.5	✓
12	-72°	775	9	2.9	-72	47.9	8.3	✓
13	-72°	767	8	59.1	-72	43.7	8.8	✓
14	-73°	551	9	0.6	-73	20.0	8.3	✓
15	-73°	561	9	4.1	-73	36.5	8.6	✓
16	-73°	572	9	11.7	-73	12.4	9.0	✓
17	-73°	575	9	12.8	-73	28.7	8.8	✓
18	-72°	799	9	16.9	-72	30.4	7.8	✓
19	-72°	802	9	18.6	-72	47.4	7.4	✓
20	-73°	594	9	21.6	-73	0.2	8.1	✓
21	-73°	588	9	18.8	-73	18.9	8.5	✓
22	-73°	589	9	19.2	-73	22.7	8.9	✓
23	-72°	823	9	26.8	-72	57.1	7.8	✓
24	-73°	608	9	29.2	-73	6.0	7.8	✓
25	-73°	611	9	30.7	-73	11.6	7.6	✓
26	-73°	609	9	30.4	-73	36.0	8.2	✓
27	-73°	612	9	30.8	-73	36.0	8.2	✓

cards made out

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1913phae.proj.2152C

Wednesday, May 7. 1913.
B22988 short disp.

No.	Int.	Class	Remark.
28	1	K2	
29	8	K2	
30	5	A0	
31	5	B3	
32	4	A0	
33	1	A	
34	5	B9	
35	1	A	
36	5	A3	
37	3	A3	
38	9	K5	
39	2	A2	
40	8	F2	
41	2	F2	
42	1	K0	
43	1	K	
44	2	A2	
45	1	K0	
46	1	K5	
47	1	K	
48	2	A5	
49	2	A	Nearly all superposed on 50.
50	2	A2	
51	4	A0	
52	1	K	
53	1	K	
54	2	B9	

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1913phae.proj.2152C

28	-72°	844	9	33.1	-72	56.8	8.8	✓
29	-72°	835	9	30.6	-72	31.5	7.5	✓
30	-72°	838	9	31.7	-72	7.1	7.9	✓
	-71°	847	9	30.7	-71	54.9	7.7	
31	~~-78°~~	~~297~~	~~8~~	~~13.3~~	~~-78~~	~~19.2~~	~~8.3~~	✓
	-71°	850	9	31.8	-71	35.1	8.1	
32	~~-78°~~	~~284~~	~~8~~	~~6.6~~	~~-78~~	~~48.1~~	~~8.0~~	✓
33	-72°	836	9	30.7	-72	4.5	8.8	✓
34	~~-78°~~ -71°	837	9	27.4	-71	52.4	7.6	✓
35	-72°	826	9	27.8	-72	24.5	8.7	✓
36	-71°	822	9	22.3	-71	16.3	8.1	✓
37	-71°	825	9	23.4	-71	13.0	8.4	✓
38	-71°	833	9	25.9	-71	3.5	7.4	✓
39	-71°	836	9	27.0	-71	6.5	8.5	✓
40	-71°	835	9	26.6	-71	14.2	7.7	✓
41	-71°	843	9	29.4	-71	1.8	8.6	✓
42	-71°	844	9	29.6	-71	13.0	9.0	✓
43	-70°	914	9	30.8	-70	51.3	8.8	✓
44	-70°	918	9	32.6	-70	22.3	8.6	✓
45	-70°	921	9	34.8	-70	37.9	8.8	✓
46	-71°	853	9	33.6	-71	2.1	8.8	✓
47	-71°	856	9	35.5	-71	7.5	8.6	✓
48	-71°	857	9	35.6	-71	52.5	8.6	✓
49	-72°	848	9	37.4	-72	7.0	8.6	✓
50	-72°	849	9	37.5	-72	8.0	8.7	✓
51	-72°	857	9	40.6	-72	59.7	8.1	✓
52	-72°	860	9	42.6	-72	43.7	8.8	✓
53	-72°	863	9	43.3	-72	31.7	8.9	✓
54	-71°	864	9	40.1	-71	37.0	8.8	✓

cards made auto.

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1913phae.proj.2152C

Wednesday, May 7, 1913.
B32988 short disp.

No.	Int.	Class	Remark.
55	8	B9	
56	3	K2	
57	1	F	
58	4	A3	
59	8	B8	
60	4	K2	
61	10	B0	
62	2	F5	
63	3	A0	
64	2	K5	
65	4	F2	
66	8	B8	
67	7	A0	
68	4	A0	
69	2	A2	
70	2	A0	
71	8	B8	
72	2	A2	
73	5	K0	
74	3	A3	
75	6	B9	
76	5	F2	
77	2	A0	
78	3	A3	
79	3	K0	
80	10+	B	Burned out.
81	2	K0	

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1913phae.proj.2152C

55	-71°	866	9	41.1	-71	37.0	7.1 ✓
56	-71°	872	9	44.2	-71	12.5	8.5 ✓
57	-71°	876	9	45.0	-71	26.2	9.0 ✓
58	-71°	879	9	49.2	-71	33.4	8.3 ✓
59	-71°	882	9	50.5	-71	21.3	6.9 ✓
60	-70°	949	9	50.7	-70	51.9	8.2 ✓
61	-70°	953	9	54.0	-70	47.6	6.4 ✓
62	-70°	952	9	53.5	-70	31.2	8.4 ✓
63	-70°	945	9	46.6	-70	11.3	8.3 ✓
64	-70°	944	9	46.2	-70	20.2	9.1 ✓
65	-70°	938	9	42.8	-70	9.9	8.4 ✓
66	-69°	1115	9	43.5	-69	32.3	7.3 ✓
67	-69°	1112	9	42.8	-69	11.1	7.3 ✓
68	-69°	1108	9	42.0	-69	13.0	8.0 ✓
69	-69°	1098	9	38.6	-69	43.0	8.6 ✓
70	-70°	931	9	39.1	-70	4.8	8.6 ✓
71	-69°	1079	9	30.0	-69	54.9	7.1 ✓
72	-69°	1070	9	25.5	-69	25.0	8.6 ✓
73	-69°	1056	9	23.0	-69	32.0	8.0 ✓
74	-69°	1059	9	23.8	-69	52.1	8.6 ✓
75	-69°	1057	9	23.1	-69	52.2	7.4 ✓
76	-70°	878	9	18.6	-70	28.5	7.7 ✓
77	-70°	885	9	20.6	-70	47.2	8.8 ✓
78	-70°	864	9	8.3	-70	36.0	8.4 ✓
79	-70°	863	9	6.1	-70	27.7	8.5 ✓
80	-70°	861	9	4.6	-70	2.2	4.7 ✓
81	-69°	1028	9	13.8	-69	35.7	8.8 ✓

cards made out

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1913phae.proj.2152C

Wednesday, May 7, 1913.
B 22988 short disp.

No.	Int.	Class	Remark.
82	2	Ig^5	
83	6	A_0	
84	4	A_0	
85	3	A_0	
86	3	F_0	
87	1	Ik^5	
88	1	Ik	Inv clas. Omit.
89	4	F^5	
90	1	g^5	
91	8	B8	
92	9	B9	
93	~~10~~ 10	$B5^e$	
94	3	A_0	
95	5	F_3	
96	3	K_2	
97	7	F_8	
98	1	Ik^5	
99	1	A_5	
100	5	B9	
101	6	F8	
102	5	F_2	
103	6	F^5	
104	2	A_0	
105	2	A_5	
106	7	B8	
107	1	K	
108	1	A	

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1913phae.proj.2152C

82	-69°	1034	9	16.1	-69	51.7	8.4	✓
83	-69°	1035	9	16.4	-69	16.5	7.3	✓
84	-68°	927	9	19.3	-68	46.2	7.8	✓
85	-68°	934	9	21.0	-68	40.9	8.1	✓
86	-68°	945	9	24.5	-68	43.5	8.2	✓
87	-69°	1060	9	23.8	-69	5.8	9.0	✓
~~88~~	~~-69°~~	~~11 22 23~~	~~9~~	~~45.8 7~~	~~-69~~	~~21.9 3~~	~~9.1 9.1~~	
89	-69°	1125	9	46.9	-69	29.2	8.0	✓
90	-69°	1127	9	49.6	-69	12.0	8.6	✓
91	-69°	1128	9	51.4	-69	18.2	7.2	✓
92	-68°	1002	9	52.5	-68	35.8	7.0	✓
93	-68°	1011	9	54.3	-68	30.4	6.4	✓
94	-69°	1138	9	58.3	-69	12.2	7.9	✓
95	-70°	957 6	9	58.8	-70	7.6	7.6	✓
96	-70°	~~958~~ 968	10	5.3	-70	40.2	8.6	✓
97	-70°	966	10	4.5	-70	52.0	7.2	✓
98	-71°	909	10	4.1	-71	9.8	8.8	✓
99	-71°	907	10	2.9	-71	15.8	8.8	✓
100	-71°	905	10	2.8	-71	27.9	7.7	✓
101	-71°	901	9	59.0	-71	43.1	8.0	✓
102	-71°	899	9	58.2	-71	57.4	8.2	✓
103	-72°	887	9	57.2	-72	11.4	8.4	✓
104	-72°	884	9	56.2	-72	17.8	8.8	✓
105	-71°	885	9	63.2	-71	57.7	8.6	✓
106	-71°	895	9	56.1	-71	27.9	7.4	✓
107	-71°	896	9	56.4	-71	5.4	9.0	✓
108	-71°	910	~~9~~ 10	4.2	-71	31.1	8.7	✓

Cards made out

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1913phae.proj.2152C

Wednesday, May 7, 1913.
B 2298 short disp.

	Nr.	Int.	Class	Remark.
	109	1	A	
	110	6	Fo	"
	111	4	Ao	"
	112	3	G5	"
	113	2	Ao	"
11.26	114	5	Neb	"

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1913phae.proj.2152C

109	-71°	915	10	5.4	-71	37.0	8.7 ✓
110	-71°	940	10	10.8	-71	3.0	7.8 ✓
111	-70°	1000	10	10.6	-70	26.2	7.9 ✓
112	-72°	918	10	11.5	-72	3.5	8.6 ✓
113	-72°	916	~~8~~ 10	11.3	-72	42.8	8.5 ✓
114	-71°	976	10	17.7	-71	30.0	8.4 ✓

Identified by J.C.M. July 25, 1913
Checked by A.M.C. Oct 28, 1913
Cards made out by S.R.B.
Cards checked by A.M.C.

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1913phae.proj.2152C

Thursday May 8. 1913.

Time: 9.45

B 21452 short disp.

No.	Int.	Class	Remark
1	3	A	E.
2	5	A2	
3	2	K5	
4	2	M0	
5	7	B9	
6	6	A0	
7	4	B9	
8	5	A0	
9	4	A0	
10	2	A2	
11	3	Ma	
12	9	A0	
13	5	M0	
14	5	F2	
15	3	A0	
16	2	K5	
17	7	A2	
18	7	M0	
19	10+	A2	
20	4	M5	
21	4	K5	
22	2	A2	
23	1	M	
24	2	F	
25	1	M	
26	1	K0	
27	1	K5	

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1913phae..proj..2152C

1	-64°	905	8	29.7	-64	23.2	8.8	∧✓
2	-64°	906	8	30.2	-64	26.8	8.4	∧✓
3	-64°	909	8	31.1	-64	42.9	9.1	∧✓
4	-64°	915	8	32.4	-64	23.8	9.2	∧✓
5	-64°	920	8	34.5	-64	13.3	7.6	∧✓
6	-64°	919	8	34.3	-64	22.7	7.9	∧✓
7	-64°	918	8	34.1	-64	49.1	8.6	∧✓
8	-64°	925	8	37.3	-64	31.5	8.1	∧✓
9	-64°	927	8	38.4	-64	23.6	8.0	∧✓
10	-64°	928	8	38.7	-64	20.8	8.9	∧✓
11	-64°	929	8	39.2	-64	9.3	9.1	∧✓
12	-63°	1023	8	39.1	-63	53.4	7.4	∧✓
13	-64°	933	8	41.5	-64	29.0	8.4	∧✓
14	-64°	931	8	40.5	-64	47.3	8.2	∧✓
15	-65°	995	8	38.9 ~~39.6~~	-65	13.7	8.7	∧✓
16	-65°	1003	8	39.6	-65	20.3	9.1	∧✓
17	-65°	1008	8	40.8	-65	26.5	8.0	∧✓
18	-65°	1014	8	42.9	-65	14.4	8.5	∧✓
19	-65°	1013	8	42.8	-65	22.4	6.5	∧✓
20	-65°	1015	8	43.7	-65	39.5	9.0	∧✓
21	-65°	1019	8	44.2	-65	55.1	8.9	∧✓
22	-66°	913	8	44.5	-66	5.8	9.3	∧✓
23	-66°	910	8	42.8	-66	11.5	9.6	∧✓
24	-66°	903	8	41.5	-66	20.6	9.3	∧✓
25	-66°	904	8	42.0	-66	22.0	9.7	∧✓
26	-65°	1020	8	44.2	-65	41.9	9.5	∧✓
27	-65°	1021	8	44.5	-65	49.2	9.5	∧✓

cards made outs.

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1913phae.proj.2152C

Thursday, May 8 1913.
T3 21452 short disp.

No.	Int.	Class	Remark
28	1	ly5	
29	1	F8	
30	1	ly	
31	1	K2	
32	3	ly0	
33	3	ly5	
34	2	ly0	
35	4	ly5	
36	3	K0	
37	6	A0	
38	8	K0	
39	3	Neb	
40	1	ly0	
41	5	A0	
42	7	F5	
43	7	F2	
44	3	K5	
45	4	A0	
46	3	A0	
47	2	F0	
48	6	ly5	
49	1	A5	
50	7	B8	
51	2	B9	
52	2	ly5	
53	2	A0	
54	3	K0	

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1913phae..proj..2152C

28	-65°	1023	8	44.7	-65	37.0	9.4	∧ ∨
29	-65°	1025	8	45.0	-65	33.8	9.5	∧ ∨
30	-65°	1026	8	46.0	-65	33.8	9.6	∧ ∨
31	-65°	1032	8	47.6	-65	26.4	9.6	∧ ∨
32	-65°	1033	8	47.7	-65	38.1	9.1	∧ ∨
33	-65°	1035	8	48.3	-65	54.2	9.3	∧ ∨
34	-65°	1042	8	49.5	-65	49.3	9.3	∧ ∨
35	-65°	1039	8	48.9	-65	18.6	9.0	∧ ∨
36	-65°	1040	8	49.0	-65	8.9	9.2	∧ ∨
37	-65°	1029	8	47.3	-65	5.8	8.7	∧ ∨
38	-64°	946	8	46.5	-64	58.0	8.1	∧ ∨
39	-64°	941	8	45.0	-64	47.0	9.2	∧ ∨
40	-65°	1018	8	44.0	-65	13.1	9.4	∧ ∨
41	-64°	934	8	43.4	-64	43.3	8.7	∧ ∨
42	-64°	942	8	45.2	-64	28.8	8.3	∧ ∨
43	-64°	951	8	47.2	-64	19.9	8.1	∧ ∨
44	-64°	953	8	47.2	-64	16.8 (~~19.9~~)	9 (~~8.1~~)	∧ ∨
45	-64°	952	8	47.4	-64	0.2	8.5	∧ ∨
46	-64°	957	8	48.5	-64	18.1	8.7	∧ ∨
47	-64°	959	8	49.1	-64	11.0	9.1	∧ ∨
48	-64°	963	8	50.4	-64	17.0	8.6	∧ ∨
49	-64°	960	8	49.2	-64	29.9	9.5	∧ ∨
50	-64°	958	8	48.9	-64	35.2	8.1	∧ ∨
51	-64°	954	8	48.0	-64	38.1	9.1	∧ ∨
52	-64°	950	8	47.1	-64	40.0	9.4	∧ ∨
53	-64°	947	8	46.7	-64	44.7	8.9	∧ ∨
54	-64°	949	8	47.0	-64	51.9	8.9	∧ ∨

cards made out.

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1913phae.proj.2152c

Thursday, May 8, 1913.
B 2 1452 short disp.

No.	Int.	Class	Remarks
55	1	K2	
56	3	K2	
57	2	g5	
58	3	g5	
59	6	B9	
60	4	F0	
61	3	g0	
62	3	F0	
63	2	K5	
64	3	A0	
65	2	g5	E.
66	5	A2	E.
67	6	F0	
68	8	F0	
69	6	B8	
70	5	F0	
71	4	F0	
72	3	F0	
73	2	A3	
74	9	K0	
75	4	A3	
76	6	K2	
77	5	B9	
78	1	Ma	
79	9	B9	
80	1	A	
81	5	K0	

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1913phae..proj..2152C

55	-64°	964	8	50.6	-64	55.4	9.6	∧∨
56	-64°	966	8	50.9	-64	59.8	9.2	∧∨
57	-65°	1043	8	49.9	-65°	15.3	9.4	∧∨
58	-65°	1047	8	52.2	-65	21.0	9.5	∧∨
59	-64°	974	8	54.6	-64	32.3	8.2	∧∨
60	-64°	976	8	55.5	-64	48.0	8.9	∧∨
61	-64°	971	8	53.9	-64	10.9	8.8	∧∨
62	-64°	972	8	54.1	-64	4.6	8.6	∧∨
63	-63°	1073	8	55.2	-63	52.2	9.5	∧∨
64	-63°	1060	8	52.2	-63	15.7	8.7	∧∨
65	-63°	1062	8	52.5	-63	13.2	9.2	∧∨
66	-63°	1067	8	53.6	-63	17.4	8.4	∧∨
67	-62°	1136	8	53.9	-62	59.0	8.3	∧∨
68	-63°	1069	8	54.3	-63	4.0	7.6	∧∨
69	-63°	1072	8	55.0	-63	0.9	8.1	∧∨
70	-63°	1075	8	55.3	-63	13.2	8.4	∧∨
71	-63°	1074	8	55.2	-63	26.5	8.4	∧∨
72	-63°	1078	8	56.7	-63	27.7	8.9	∧∨
73	-63°	1079	8	57.8	-63	34.2	9.4	∧∨
74	-64°	978	8	56.5	-64	2.8	7.3	∧∨
75	-64°	979	8	56.5	-64	15.0	8.6	∧∨
76	-64°	984	8	59.1	-64	25.9	8.3	∧∨
77	-64°	985	8	59.6	-64	18.4	8.2	∧∨
78	-64°	990	9	0.7	-64	22.6	9.5	∧∨
79	-64°	993	9	1.5	-64	11.3	7.5	∧∨
80	-64°	991	9	0.9	-64	30.1	9.2	∧∨
81	-63°	1088	9	2.6	-63	47.3	8.8	∧∨

cards made out.

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Thursday, May 8, 1913.

B324 52 short disp.

	No.	Int.	Class	Remark
	82	8	K0	
	83	3	K0	
	84	5	A0	
	85	3	G0	
	86	1	K5	
	87	5	B9	
	88	2	G5	
	89	3	G5	
	90	7	F2	
	91	3	A0	
	92	5	A2	
	93	3	K0	
	94	3	K5	
	95	5	F0	
	96	3	F2	
	97	6	A0	
	98	4	F0	Another star superposed to south.
	99	5	F5	
	100	2	G0	
10.15	101	3	B9	
10.26	102	2	F8	
	103	1	K2	
	104	3	F0	
	105	5	F2	
	106	6	A2	
	107	6	B8	
	108	4	A3	

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1913phae.proj.21526

82	-63°	1093	9	3.7	-63	59.9	8.2	1 ✓
83	-64°	1000 ~~1001~~	9 ~~9~~	3.3 ~~3.4~~	-64	27.1 ~~26.9~~	9.0 ~~9.1~~	1 ✓ -64° 1001 9.1 superposed
84	-64°	1002	9	3.9	-64	41.2	8.9	1 ✓
85	-64°	996	9	2.5 4	-64	50.4	9.1	1 ✓
86	approx.	1875	9	3.4	-64	45.		1 ✓
87	-64°	1004	9 9	4.8	-64	59.3	8.6	1 ✓
88	-65°	1081	8	5.2	-65	13.9	9.3	1 ✓
89	-65°	1084 4	9	6.8	-65	19.9	9.2	1 ✓
90	-64°	1008	9	7.8	-64	58.9	8.0	1 ✓
91	-65°	1086	9	8.6	-65	28.0	9.1	1 ✓
92	-65°	1087	9	9.2	-65	19.5	8.6	1 ✓
93	-65°	1089	9	9.8	-65	24.0	9.2	1 ✓
94	-65°	1088	9	9.7	-65	40.0	9.4	1 ✓
95	-66°	978	9	7.6	-66	1.7	8.8	1 ✓
96	-66°	977	9	7.5	-66	13.7	9.2	1 ✓
97	-66°	983	9	9.0	-66	20.8	8.7	1 ✓
98	-66°	985	9	9.4	-66	12.2	8.9	1 ✓ -66° 984 superpos. magn. 9.5
99	-66°	98~~9~~ 90	9	10.2	-66	12.6	8.9	1 ✓
100	-66°	991	9	10.7	-66	19.5	9.4	1 ✓
101	-66°	993	9	11.3	-66	16.8	9.0	1 ✓
102	-66°	994	9	11.4	-66	3.6	9.2	1 ✓
103	-65°	1092	9	11.8	-65	51.1	9.5	1 ✓
104	-65°	1094	9	12.1	-65	52.9	9.2	1 ✓
105	-65°	1093	9	11.9	-65	38.9	9.0	1 ✓
106	-65°	1096	9	12.5	-65	35.0	8.6	1 ✓
107	-65°	109~~4~~ 5	9	12.2	-65	21.1	8.5	1 ✓
108	-65°	1097	9	14.6	-65	14.3	8.9	1 ✓

cards made out.

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Thursday, May 8, 1913.

13 14 52 short disp.

Nr.	Int	Class	Remark
109	8	K0	
110	5	B9	
111	2	A2	
112	3	A2	Another star superposed at south.
113	2	A0	
114	3	K0	
115	2	K2	
116	8	B9	
117	1	G5	
118	1	G0	
119	3	G0	
120	5	B9	
121	3	A0	
122	2	G5	Partly superposed on 123.
123	5	K8	
124	6	K5	
125	3	A0	
126	4	A0	
127	2	~~K0~~	K2
127a	1	K2	0, 6, 10.
128	1	G5	
129	5	K0	
130	1	K0	
131	3	K0	
132	6	B8	
133	10	K0	
134	4	A2	
135	8	K0	

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1913phae.proj.21526

109	-64°	1022	9	15.8	-64	54.2	8.6	∧∨
110	-65°	1101	9	16.5	-65	6.9	8.9	∧ ∨
111	-64°	1025	9	19.2	-64	59.9	9.5	∧∨
112	-65°	1104	9	19.2	-65	10.3	9.2	∧ ∨
113	Approx. (1875)		9	18.1	-65	21		∧∨
114	-65°	1102	9	18.1	-65	42.7	9.5	∧ ∨
115	Approx. (1875)		9	18.8	-65	41		∨
116	-65°	1103	9	18.2	-65	57.5	7.7	∧∨
117	-65°	1105	9	20.0	-65	53.0	9.5	∧∨
118	Approx. (1875)		9	20.0	-65	40		∧∨
119	-65°	1106	9	20.6	-65	39.9	9.4	∧∨
120	-66°	1014	9	21.8	-66	9.1	8.6	∧∨
121	-66°	1015	9	22.8	-66	16.2	9.2	∧∨
122	-65°	1098	9	15.1	-65	59.1	9.2	∧∨
123	-66°	1000	9	15.2	-66	2.0	8.8	∧∨
124	-66°	1001	9	15.5	-66	9.9	8.5	∧∨
125	-65°	1100	9	16.0	-65	50.1	9.2	∧∨
126	-65°	1099	9	15.7	-65	37.8	8.9	∧∨
127	Approx. (1875)		9	12.8	-65	43		∨ Announced 1900 for. 9 13.5-65 49
127a	Meas pos (1875)		9	13.0	-65	42 30		
128	Approx. (1875)		9	12.6	-65	59		∧∨
129	-66°	997	9	13.3	-66	13.0	8.8	∧∨
130	Approx. (1876)		9	13.5	-66	20		∧∨
131	-66°	996	9	12.9	-66	31.0	9.0	∧∨
132	-66°	999	9	14.5	-66	36.2	8.6	∧∨
133	-66°	1002	9	15.7	-66	31.3	8.0	∧∨
134	-66°	998	9	13.7	-66	54.4	8.8	∧∨
135	-67°	1061	9	15.2	-67	9.0	8.4	∧∨

cards made out.

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1913phae.proj.2152c

Thursday, May 8, 1913.

B 2 14 452 short exps.

No.	Int.	Class	Remark.
136	4	K0	
137	6	K5	Another star superposed at north.
138	3	A0	
139	2	G5	
140	1	K0	
141	2	K2	
142	2	A2	
143	2	G5	
144	4	A0	
145	4	K0	
146	5	A0	
147	3	A2	
148	7	F5	
149	4	G5	
10.35	150	1	G
time 3.10	151	3	A0
	152	7	K0
	153	3	K0
	154	6	K2
	155	2	G5
	156	1	A2
	157	1	K2
	158	7	K0
	159	3	G5
	160	5	A2
	161	3	md Hγ=10 Hδ=20 H^{8}=1 all right.
	162	5	A from Hδ to violet superposed on 160

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1913phae.proj.21526

136	-67°	1063	9	16.5	-67	0.5	9.0	^ v
137	-66°	1005	9	17.4	-66	54.0	8.7	^ v -66° 1003 9.5 1004 9 superposed.
138	-66°	1007	9	18.3	-66	50.3	9.1	^ v
139	-66°	1006	9	18.0	-66	35.0	9.2	^ v
140	-66°	~~1068~~ 1008	9	19.3	-66	32.3	9.5	^ v
141	-66°	1008	9	19.5	-66	37.0	9.5	^ v
142	-66°	1011	9	20.5	-66	35.1	9.5	^ v
143	-66°	1012	9	21.3	-66	29.0	9.5	^ v
144	-66°	1010	9	20.2	-66	58.6	9.1	^ v
145	-66°	1013	9	21.4	-66	57.2	9.1	^ v
146	-67°	1077	9	21.7	-67	22.0	8.9	^ v
147	-67°	1079	9	22.6	-67	14.2	9.2	^ v
148	-67°	1080	9	22.8	-67	23.0	8.3	^ v
149	-67°	1071	9	18.8	-67	35.6	8.7	^ v
150	-67°	1073	9	20.2	-67	31.0	9.3	^ v
151	-67°	1078	9	22.4	-67	39.1	8.9	^ v
152	-67°	1082	9	23.2	-67	49.3	8.6	^ v
153	-67°	1083	9	23.9	-67	52.0	9.0	^ v
154	-68°	937	9	21.9	-68	5.9	8.6	^ v
155	-68°	938	9	22.2	-68	25.8	9.4	^ v
156	-68°	933	9	21.0	-68	12.1	9.2	^ v
157	-68°	929	9	20.4	-68	6.3	9.8	^ v
158	-67°	1070	9	18.7	-67	49.7	8.5	^ v
159	-67°	1068	9	18.4	-67	50.3	9.4	^ v -67° 1069 superposed
160	-67°	1064	9	16.7	-67	55.3	9.2	^ v
161	-68°	921	9	17.8	-68	13.7	9.7	^ v
162	-68°	917	9	15.5	-68	3.4	9.1	^ v

cards made out.

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Thursday May 8, 1913

B 2 14/50 Shut

No	Dist	Class	Remarks
163	10+	F5	Burned out.
164	3	K5	
165	4	B9	
166	3	A0	
169	2	G5	
168	2	K0	
169	7	B9	
170	2	A	Partly superposed on 169
171	1	A	
172	8	K0	
173	4	A0	
174	5	K2	
175	5	F0	
176	5	B8	
177	3	K0	
178	1	K2	
179	5	K0	
180	2	K5	
181	4	F8	
182	7	A0	
183	7	F2	
184	1	K2	
185	10	B5	
186	6	K5	
187	4	B9	
188	1	K5	
189	3	A0	

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1913phae.proj.2152C

163	-68°	918	9	15.5	-68	9.9	6.0	1 v
164	-67°	1082	9	16.4	-67	39.1	9.6	1 v
165	-67°	1060	9	15.2	-67	38.8	9.0	1 v
166	-67°	1058	9	14.8	-67	41.3	8.8	1 v
167	-67°	1056	9	13.3	-67	35.0	9.5	1 v
168	-67°	1055	9	13.1	-67	33.9	9.2	1 v
169	-67°	1053	9	12.9	-67	45.9	8.2	1 v
170	-67°	1052	9	12.8	-67	47.0	9.9	1 v
171	-67°	1051	9	12.3	-67	57.2	10.0	1 v
172	-68°	910	9	12.5	-68	23.9	8.4	1 v
173	-68°	911	9	13.0	-68	38.1	8.8	1 v
174	-68°	907	9	10.5	-68	13.8	8.6	1 v
175	-68°	902	9	8.6	-68	9.0	8.7	1 v
176	-68°	901	9	7.8	-68	24.0	8.6	1 v
177	-67°	1045	9	9.5	-67	44.9	9.4	1 v
178	-67°	1042	9	8.5	-67	39.1	10.0	1 v
179	-67°	1043	9	8.6	-67	48.3	8.0	1 v
180	-67°	1041	9	6.9	-67	33.1	9.4	1 v
181	-67°	1039	9	5.5	-67	44.5	8.8	1 v
182	-67°	1038	9	5.3	-67	59.1	8.4	1 v
183	-68°	897	9	6.4	-68	1.4	8.5	1 v
184	-68°	894	9	5.8	-68	4.5	9.7	1 v
185	-68°	896	9	6.1	-68	15.0	7.6	1 v
186	-67°	1034	9	3.7	-67	36.5	8.7	1 v
187	-67°	1036	9	4.0	-67	26.7	8.8	1 v
188	-67°	1035	9	3.8	-67	18.3	9.5	1 v
189	-67°	1031	9	3.2	-67	12.6	9.0	1 v

cards made out.

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1913phae.proj.2152c

Thursday May 15, 1913

B 2 ~~7~~ 14 52 short

No.	Int.	class	Remarks
190	7	F2	
191	2	A0	
192	1	F	
193	1	G	
194	10	F0	
195	3	F5	
196	2	F0	
197	1	F8	
198	5	F2	
199	4	F5	
200	3	G	Uncertain. Too much superposed on 199
201	6	B9	
202	1	A	
203	1	A5	
204	4	K0	
205	1	K0	
206	3	K2	
207	2	K0	Partly superposed on 206
208	2	A0	
209	1	A2	
210	3	F5	
211	3	F2	
212	1	A	
213	2	K5	
214	3	K0	
215	2	A0	
216	4	A0	Trail

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1913phae.proj.2152C

190	−67°	1030	9	2.2	−67	7.5	8.5	∧ v
191	−66°	971	9	3.3	−66	42.2	9.1	∧ v
192	−67°	1037	9	4.8	−67	1.5	9.3	∧ v
193	−67°	1040	9	6.5	−67	15.4	9.4	∧ v
194	−67°	1047	9	10.1	−67	12.4	7.6	∧ v
195	−66°	992	9	11.0	−66	59.1	9.0	∧ v
196	−67°	1049	9	11.0	−67	9.8	9.4	∧ v
197	−67°	1050	9	11.7	−67	18.0	9.4	∧ v
198	−67°	1067	9	17.5	−67	16.6	8.9	∧ v
199	−67°	1066	9	17.1	−67	12.0	9.0	∧ v
200	−67°	1065	9	17.0	−67	9.0	9.1	∧ v
201	−66°	986	9	9.5	−66	34.0	8.8	∧ v −66° 988 * Magn. 8.9 superposed
202	−66°	976	9	7.4	−66	50.9	9.4	∧ v
203	−66°	974	9	5.6	−66	35.4	9.5	∧ v
204	−66°	973	9	3.6	−66	6.8	9.0	∧ v
205	−65°	1082	9	5.7	−65	44.9	9.5	∧ v
206	−65°	1079	9	4.8	−65	39.0	8.9	∧ v
207	−65°	1078	9	4.7	−65	40.4	9.1	∧ v
208	−65°	1080	9	5.2	−65	52.5	9.2	∧ v
209	−65°	1074	9	2.5	−65	21.1	9.2	∧ v
210	−65°	1070	9	1.7	−65	24.6	9.1	∧ v
211	−65°	1066	9	0.5	−65	21.6	9.1	∧ v
212	−65°	1069	9	1.1	−65	29.8	9.3	∧ v
213	−65°	1068	9	1.0	−65	36.6	9.2	∧ v
214	−65°	1072	9	2.3	−65	58.6 59.7	9.2	∧ v −65° 1072 9.5 superposed
215	−65°	1071	9	1.8	−65	54.5	9.3	∧ v
216	−65°	1065	9	0.4	−65	53.8	5.3	∧ v Trail

Cards made out.

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1913phae.proj.2152C

Thursday May 8, 1913

B 2 14/4 52 shot

No.	Int.	Class.	Remarks
217	5	F0	
218	5	B9	
219	4	A2	
220	5	A0	
221	3	A0	
222	1	K0	
223	1	A3	
224	2	K5	
225	2	K0	Another star superposed at north-
226	4	F8	
227	1	K5	Partly superposed on 226
228	2	K0	
229	6	K5	
230	10	B9	
231	10+	A0	
232	3	K5	
233	5	K0	
234	2	K0	
235	4	F8	
236	3	A5	
237	3	K2	
238	3	A0	
239	2	F	
240	4	A5	
241	2	B	Partly superposed on 240
242	5	F5	
243	4	A3	

End

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1913phae.proj.2152C

217	-65°	1063	~~8~~ 9	0.0	-65	59.9	8.4	∧∨
218	-65°	1060	8	58.4	-65	51.6	8.0	∧∨
219	-66°	958	8	59.7	-66	13.1	8.7	∧∨
220	-66°	957	8	59.6	-66	18.0	8.4	∧∨
221	-66°	954	8	59.2	-66	49.6	9.0	∧∨
222	-66°	960	~~8~~ 9	0.0	-66	41.6	9.4	∧∨
223	-66°	961	9	0.5	-66	43.9	9.4	∧∨
224	-66°	966	9	1.6	-66	43.6	~~9.4~~ 9.4	∧∨
225	-66°	968	9	1.9	-66	35.4	9.2	∧∨
226	-66°	965	9	1.2	-66	54.6	8.9	∧∨
227	-66°	964	~~8~~ 9	1.1	-66	50.9	9.2	∧∨
228	-66°	959	8	59.8	-66	58.9	8.3	∧∨
229	-67°	1022	8	59.0	-67	26.9	8.7	∧∨
230	-67°	1021	8	58.4	-67	36.3	7.5	∧∨
231	-67°	1018	8	57.4	-67	39.1	7.0	∧∨
232	-67°	1019	8	57.6	-67	47.7	9.0	∧∨
233	-68°	877	8	58.2	-68	14.9	8.8	∧∨
234	-68°	875	8	57.3	-68	20.6	9.4	∧∨
235	-68°	872	8	56.1	-68	32.2	8.8	∧∨
236	-68°	873	8	56.7	-68	40.2	9.1	∧∨
237	-68°	868	8	54.3	-68	39.9	9.4	∧∨
238	-68°	865	8	53.2	-68	51.9	9.0	∧∨
239	-68°	871	8	55.2	-68	3.2	9.4	∧∨
240	-68°	863	8	53.0	-68	0.1	8.8	∧∨
241	-68°	864	8	53.1	-68	3.8	9.1	∧∨
242	-68°	862	8	52.4	-68	3.8	8.6	∧∨
243	-67°	1009	8	51.4	-67	23.7	8.9	∧∨

cards made out.

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1913phae.proj.2152C

Thursday May 8, 1913

B 2 14 ~~+5~~ 2 Shut

No.	Int.	Class	Remarks
244	3	~~F~~ 0	
245	3	F2	
246	3	G5	
247	7	K0	
248	6	F0	
249	2	K0	
250	7	A3	
251	9	Ka	
252	1	G	
253	8	A3	
254	2	G5	
255	3	F8	
256	6	G5	
257	5	G5	
258	4	K0	
259	1	K5	
260	3	K5	
261	1	K2	
262	1	G0	
263	1	G0	Trine 3.30 May 9, 1913 11.56
264	2	G5	
265	3	F5	
266	3	F2	
267	4	G0	
268	4	~~G~~ G5	
269	2	A3	
270	3	G5	

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1913phae.proj.2152C

244	-67°	1013	8	53.4	-67	24.4	9.1	∧✓
245	-67°	1015	8	54.3	-67	13.7	9.1	∧✓
246	-66°	949	8	55.4	-66	48.0	9.0	∧✓
247	-66°	943	8	53.6	-66	47.0	8.7	∧✓
248	-66°	947	8	54.8	-66	33.0	8.8	∧✓
249	-66°	953	8	57.3	-66	26.4	9.5	∧✓
250	-66°	951	8	56.6	-66	10.9	8.4	∧✓
251	-65°	1056	8	55.4	-65	43.2	8.0	∧✓
252	-66°	945	8	54.8	-66	20.8	9.2	∧✓
253	-66°	942	8	53.5	-66	17.5	8.1	∧✓
254	-66°	936	8	52.0	-66	8.0	9.2	∧✓
255	-66°	~~937~~	8	52.3	-66	12.7	8.9	∧✓
256	-66°	938	8	52.3	-66	19.6	8.5	∧✓
257	-66°	931	8	49.7	-66	30.6	8.7	∧✓
258	-66°	928	8	49.0	-66	51.9	8.8	∧✓
259	-66°	935	8	51.4	-66	50.6	9.6	∧✓
260	-67°	999	8	46.4	-67	8.0	9.1	∧✓
261	-66°	916	8	46.5	-66	53.0	9.5	∧✓
262	-66°	924	8	48.3	-66	38.1	9.2	∧✓
263	-66°	921	8	47.5	-66	38.8	9.4	∧✓
264	-67°	997	8	45.0	-67	31.6	9.5	∧✓
265	-67°	998	8	45.7	-67	44.0	9.4	∧✓
266	-68°	838	8	46.0	-68	3.0	9.6	∧✓
267	-67°	996	8	43.7	-67	50.0	9.0	∧✓
268	-67°	~~998~~ 992	8	43.2	-67	~~34.4~~ 33.0	9.2	N.P. "a.g." -67 992 supplied
269	-67°	988	8	42.4	-67	26.5	9.2	∧✓
270	-67°	987	8	42.2	-67	23.9	9.1	∧✓

cards made out.

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Friday, May 9, 1913.

B24452 short disp.

No.	Int	Class	Remark
271	3	F8	
272	1	A5	
273	5	F2	
274	3	F8	
275	1	G5	
276	2	K5	Another star superposed on fol side.
277	2	K5	
278	3	A3	
279	4	F0	
280	1	K5	
281	4	F5	
282	7	A0	
283	2	A0	
284	4	F0	
285	4	A3	
286	4	K2	
287	1	K0	
288	1	F0	
289	1	G5	
290	3	G5	
291	2	G0	
292	3	G0	
293	4	A0	
294	3	A0	
295	1	A0	
296	2	K0	
297	2	A0	

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271	-67°	994	8	43.2	-67	0.2	9.2	∧∨
272	-67°	991	8	42.8	-67	3.0	9.4	∧∨
273	-66°	906	8	42.3	-66	57.7	8.9	∧∨
274	-66°	907	8	42.5	-66	34.9	9.2	∧∨
275	-66°	914	8	44.7	-66	14.5	9.6	∧∨
276	-65°	1004	8	39.8	-65	49.0	9.2	∨ -65° 1006 9.6 superfield.
277	-65°	1000	8	39.2	-65	39.0	9.3	∧∨
278	-65°	998	8	39.1	-65	45.1	9.1	∧∨
279	-65°	1001	8	39.2	-65	58.1	8.8	∧∨
280	-65°	989	8	38.2	-65	37.4	9.2	∧∨
281	-65°	987	8	37.4	-65	45.8	8.9	∧∨
282	-65°	977	8	34.1	-65	56.6	8.2	∧∨
283	-66°	882	8	33.7	-66	10.6	9.2	∧∨
284	-66°	880	8	32.6	-66	5.7	8.6	∧∨
285	-66°	877	8	32.4	-66	5.6	8.4	∧∨
286	-65°	969	8	31.0	-65	39.3	9.1	∧∨ -65° 990 9.5 superposed.
287	-65°	971	8	31.4	-65	19.8	9.2	∧∨
288	-65°	975	8	33.1	-65	35.8	9.2	∧∨
289	-65°	980	8	34.8	-65	32.4	9.5	∧∨
290	-65°	981	8	35.0	-65	10.5	9.1	∧∨
291	-65°	979	8	34.8	-65	6.8	9.2	∧∨
292	-65°	963	8	30.5	-65	14.5	8.7	∧∨
293	-65°	960	8	29.9	-65	16.6	8.4	∧∨
294	-65°	958	8	29.5	-65	14.9	8.8	∧∨
295	-65°	956	8	29.1	-65	10.8	9.2	∧∨
296	-64°	900	8	28.7	-64	56.8	9.1	∧∨
297	-64°	901	8	28.9	-64	33.9	9.1	∧∨

cards made out.

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Friday, May 9, 1913.
13 21452 short exps.

No.	Int.	Class	Remark
298	1	A	
299	3	K0	
300	4	K0	
301	10+	K0	
302	2	G	E.
303	6	A0	E.
304	3	K0	
305	4	F	E.
306	2	K2	E.
307	4	F	E.
308	5	K0	E.
309	3	G0	E.
310	3	F5	E.
311	3	A0	
312	3	F2	
313	2	F	
314	1	K0	
315	3	K2	Trail.
316	2	A0	
317	2	K0	
318	3	A0	
319	2	G	Image hazy, probably due to – 65°941 suspected
320	2	F5	
321	1	K2	
322	2	K0	
323	3	F8	
324	2	F5	

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1913phae.proj.2152c

298	-64°	894	8	27.0	-64	28.6	9.0	∧∨
299	-64°	890	8	25.9	-64	20.7	9.2	∧∨
300	-64°	876	8	24.1	-64	2.3	8.9	∧∨
301	-64°	878	8	24.2	-64	11.4	7.2	∧∨
302	-64°	865	8	21.9	-64	46.9	9.0	∧∨
303	-65°	920	8	20.8	-65	7.4	8.1	∧∨
304	-65°	917	8	20.4	-65	16.2	9.1	∧∨
305	-64°	850	8	17.5	-64	53.1	8.5	∧∨
306	-64°	847	8	16.5	-64	56.1	9.0	∧∨
307	-65°	903	8	15.9	-65	15.9	8.8	∧∨
308	-66°	819	8	17.0	-66	7.1	8.8	∧∨
309	-66°	825	8	18.3	-66	13.3	8.9	∧∨
310	-66°	826	8	18.8	-66	6.0	8.7	∧∨
311	-66°	836	8	19.9	-66	19.9	8.8	∧∨
312	-65°	922	8	21.0	-65	42.0	8.8	∧∨
313	-65°	924	8	22.3	-65	24.2	9.1	∧∨
314	-65°	929	8	23.4	-65	9.8	9.3	∧∨
315	-65°	933	8	24.4	-65	43.1	5.7	∧∨ Trail
316	-66°	848	8	23.7	-66	14.5	9.2	∧∨
317	-66°	847	8	23.7	-66	22.7	9.2	∧∨
318	-65°	939	8	25.0	-65	49.4	8.9	∧∨
319	-65°	~~941~~ 942	~~8~~ 8	~~25.3~~ 25.4	~~-65~~ -65	~~35.2~~ 35.4	~~9.3~~ 9.2	∨ -65° 941 9.3 superposed
320	-65°	~~944~~ 944	~~8~~ 8	~~25.6~~ 25.6	~~-65~~ -65	~~35.9~~ 35.9	~~9.1~~ 9.1	∨
321	-65°	~~944~~ 946	~~8~~ 8	~~25.6~~ 26.1	~~-65~~ -65	~~35.9~~ 41.4	~~9.1~~ 9.4	∨
322	-66°	858	8	26.8	-66	21.4	9.2	∧∨
323	-66°	849	8	24.6	-66	48.8	9.2	∧∨
324	-66°	857	8	26.2	-66	56.6	9.2	∧∨
	-68	~~806~~	~~8~~	~~32.7~~	~~-68~~	~~9.6~~	~~9.7~~	

cards made out.

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Friday, May 9, 1913.

B 2145 = short disp.

No.	Int.	Class	Remark.
325	1	F0	
326	3	A2	
327	2	K5	
328	1	K0	
329	3	G5	
330	3	F8	
331	5	A5	
332	4	K0	
333	2	F0	
334	2	A0	
335	7	A0	
336	3	K5	
337	3	G0	
338	4	A3	
339	2	F2	
340	3	A3	
341	5	A2	
342	6	F8	
343	2	F2	
344	3	K2	
345	3	F5	
346	4	A3	
347	5	B9	
348	3	Ma	
349	1	K	
350	1	K	
351	4	A5	

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	-66°	859	8	27.4	-66	MM.8	9.2	
325	~~-68°~~	~~809~~	~~8~~	~~34.5~~	~~-68~~	~~0.7~~	~~8.4~~	✓
326	-67°	935	8	24.4	-67	28.7	9.2	∧✓
327	-67°	936	8	25.4	-67	27.0	9.2	∧✓
328	-67°	942	8	28.2	-67	55.0	9.8	∧✓
329	-68°	795	8	29.3	-68	12.1	9.2	∧✓
330	-67°	946	8	30.3	-67	36.0	9.3	∧✓
331	-67°	949	8	30.9	-67	41.3	8.6	∧✓
332	-67°	948	8	30.9	-67	58.1	9.4	∧✓
333	-67°	953	8	33.0	-67	52.3	9.4	∧✓
334	-68°	806	8	32.7	-68	9.6	9.7	∧✓
335	-68°	809	8	34.5	-68	0.7	8.4	∧✓
336	-67°	968	8	36.9	-67	34.1	9.3	∧✓
337	-67°	969	8	37.0	-67	41.8	9.4	∧✓
338	-68°	816	8	38.0	-68	0.7	9.2	∧✓
339	-68°	819	8	38.9	-68	1.2	9.5	∧✓
340	-67°	964	8	35.8	-67	18.2	9.1	∧✓
341	-66°	883	8	33.8	-66	53.6	8.9	∧✓
342	-66°	887	8	35.3	-66	49.0	8.8	∧✓
343	-66°	886	8	34.6	-66	29.0	9.2	∧✓
344	-66°	876	8	32.1	-66	35.6	9.2	∧✓
345	-67°	970	8	37.2	-67	7.6	8.8	∧✓
346	-67°	978	8	39.2	-67	9.8	8.8	∧✓
347	-67°	984	8	40.3	-67	5.9	8.8	∧✓
348	-67°	982	8	40.1	-67	21.8	9.2	∧✓
349	-67°	985	8	40.8	-67	12.0	9.8	∧✓
350	-68°	823	8	39.7	-68	10.2	10.0	∧✓
351	-68°	830	8	42.4	-68	23.0	9.2	∧✓

cards made out.

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Friday, May 9, 1913.
B 21452 short disp.

Nr.	Int.	Class	Remarks
352	1	A	
353	2	K0	
354	4	A0	
355	1	K2	
356	2	A2	
357	2	K0	
358	3	G5	
359	2	K0	
360	2	K2	
361	1	K5	Maybe Tha
362	2	A2	
363	2	A5	
364	2	K0	
365	1	K5	
366	2	F0	
367	3	F0	
368	1	K5	
369	3	G0	
370	2	A2	
371	3	K0	
372	4	A3	
373	1	K5	
374	1	K5	
375	3	A2	
376	4	A	Focus poor.
377	3	A0	
378	2	A	

Trail of br. star.

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1919phae.proj.21526

352	-68°	831	8	42.5	-68	12.0	9.6	^ v
353	-68°	~~860~~ 41	8	45.9	-68	25.0	9.6	^ v
354	-68°	847	8	47.5	-68	18.2	9.1	^ v
355	-68°	850	8	48.3	-68	3.2	9.9	^ v
356	-68°	852	8	49.3	-68	1.4	9.8	^ v
	-67°	1005	8	50.0	-67	59.7	9.4	^
357	~~-68°~~	~~841~~	~~8~~	~~45.9~~	~~-68~~	~~25.0~~	~~9.6~~	v
358	-68°	860	8	51.9	-68	38.6	9.0	^ v
359	-69°	973	8	50.6	-69	5.3	9.6	^ v
360	-68°	851	8	49.3	-68	42.9	9.7	^ v
361	-68°	849	8	48.3	-68	58.3	10.0	^ v
362	-68°	848	8	47.9	-68	58.5	9.6	^ v
363	-69°	964	8	47.0	-69	24.4	9.6	^ v
364	-69°	968	8	49.1	-69	39.6	9.5	^ v
365	-69°	969	8	49.1	-69	49.6	9.7	^ v
366	-69°	961	8	46.2	-69	37.5	9.5	^ v
367	-69°	963	8	46.8	-69	53.9	9.4	^ v
368	-70°	825	8	45.7	-70	11.9	9.7	^ v
369	-70°	822	8	44.8	-70	8.0	9.4	^ v
370	-69°	958	8	41.4	-69	3.0	9.4	^ v
371	-69°	949	8	39.4	-69	12.7	9.6	^ v
372	-68°	820	8	39.0	-68	51.9	9.1	^ v
373	-68°	815	8	36.7	-68	51.9	10.0	^ v
374	-68°	814	8	35.9	-68	47.8	9.9	^ v
375	-68°	813	8	35.8	-68	53.1	9.4	^ v
376	-69°	937	8	34.5	-69	26.1	9.0	^ v
377	-69°	946	8	38.6	-69	56.5	5.5	^ v
378	-70°	801	8	37.2	-70	9.8	9.4	^ v

Trail of

cards made out.

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1913phae.proj.2152C

Friday, May 9, 1913.
B 2145 2 short disps.

	No.	Int.	Class	Remark.
	379	4	A3	
	380	3	Ma	
	381	3	Ao	
	382	2	A	
Time 12.36	383	2	F5	
" 1.26	384	4	K0	
	385	5	Ao	
	386	2	ly	
	387	6	F8	
	388	4	Ao	
	389	6	A2	
	390	2	lyo	
	391	4	K5	Maybe Ma.
	392	3	F5	
	393	5	Ao	
	394	2	A2	
	395	4	B	Perhaps a trail of a br. star. Yes.
	396	6	K0	
	397	5	F2	
	398	1	K2	
	399	8	Vg	
	400	2	V	γ = 10. β = 3. 5037 = 10. 4686 = 3. δ = 3. ε = 10. δ = 15.
	401	1	A2	
	402	2	lyo	
	403	10	F2	
	404	8	F5	
	405	4	K0	

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1913phae.proj.21526

379	-69°	917	8	26.6	-69	19.8	8.8	↑↓
380	-69°	897	8	21.4	-69	4.3	9.1	↑↓
381	-69°	881	8	17.4	-69	13.3	8.4	↑↓
382	-69°	878	8	16.8	-69	23.4	9.1	↑↓
383	-69°	877	8	16.6	-69	51.0	8.8	↑↓
384	-69°	982	8	54.6	-69	37.0	8.9	↑↓
385	-69°	991	8	56.4	-69	20.4	8.6	↑↓
386	-69°	996	8	59.0	-69	14.0	9.9	↑↓
387	-69°	998	8	59.7	-69	16.7	8.6	↑↓
388	-69°	1002	~~8~~ 9	0.7	-69	28.6	8.8	↑↓
389	-69°	1003	9	1.4	-69	44.9	9.0	↑↓
390	-70°	848	8	58.3	-70	17.1	9.2	↑↓
391	-70°	850	8	59.1	-70	24.9	9.0	↑↓
392	-70°	852	8	59.6	-70	20.6	9.1	↑↓
393	-70°	857	~~8~~ 9	1.5	-70	51.8	8.9	↑↓
394	-69°	1006	9	3.8	-69	57.0	9.5	↑↓
395	-70°	861	9	4.6	-70	2.2	4.7	↑↓ Trail.
396	-69°	1011	9	5.0	-69	43.6	8.8	↑↓
397	-69°	1005	9	3.8	-69	5.9	8.7	↑↓
398	-69°	1007	9	4.2	-69	9.6	9.6	↑↓
399	-69°	1009	9	4.6	-69	4.3	7.8	↑↓
400	Approx.	1900	9	6.1	-69	32		↓ This p.s. has been clubbed
401	-69°	1016	9	7.2	-69	12.4	9.7	↑↓
402	-68°	900	9	7.6	-68	49.0	9.9	↑↓
403	-68°	904	9	9.8	-68	44.5	7.3	↑↓
404	-68°	906	9	10.3	-68	41.2	7.8	↑↓
405	-68°	905	9	9.8	-68	55.1	9.0	↑↓

cards made out.

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1913phae.proj.2152c

Friday, May 9, 1913.

B 21452 short disp.

No.	Int.	Class	Remark.
406	2	Fo	
407	4	Go	
408	10	Ao	Perhaps a trail. Yes, it is a trail.
409	5	Ao	
410	2	Fo	
411	3	Go	
412	4	F8	
413	6	Ao	
414	5	Ao	
415	4	Ao	
416	2	Ao	
417	3	Ao	
418	2	F5	
419	2	Fo	
420	3	Fo	
421	4	G5	Time: 1.34 May 10, 1913
422	2	Fo	Time: 11.49
423	1	Ma	
424	1	Ko	
425	2	Ko	
426	2	K2	
427	3	K5	
428	2	A	
429	1	Fo	
430	4	Ko	
431	4	Ao	
432	3	F5	

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1913phae.proj.21520

406	-69°	1018	9	9.0	-69	7.7	9.6	^v
407	-69°	1019	9	9.7	-69	12.3	9.0	^v
408	-69°	1023	9	11.8	-69	12.1	3.4	^v Trail
409	-69°	1027	9	13.5	-69	20.8	8.8	^v
410	-69°	1026	9	13.3	-69	35.1	9.4	^v
411	-68°	912	9	13.4	-68	56.8	9.6	^v
412	-68°	915	9	14.3	-68	56.0	9.4	^v
413	-69°	1030	9	14.6	-69	7.1	8.2	^v
414	-69°	1033	9	15.6	-69	6.0	8.5	^v
415	-69°	1037	9	16.6	-69	9.9	9.0	^v
416	-69°	1039	9	16.8	-69	32.0	9.7	^v
417	-69°	1042	9	18.3	-69	30.8	9.4	^v
418	-69°	1045	9	18.9	-69	26.1	9.7	^v
419	-69°	1047	9	20.0	-69	30.0	9.2	^v
420	-69°	1043	9	18.6	-69	7.0	9.6	^v
421	-68°	926	9	19.2	-68	53.0	9.2	^v
422	-68°	940	9	22.9	-68	54.9	9.3	^v
423	-69°	1074	9	27.7	-69	7.8	9.4	^v
424	-68°	964	9	31.5	-68	38.3	9.4	^v
425	-68°	966	9	32.6	-68	44.0	9.3	^v
426	-68°	967	9	35.5	-68	21.9	9.3	^v
427	-68°	969	9	35.9	-68	34.3	9.0	^v
428	-68°	965	9	31.8	-68	1.9	9.0	^v
429	-67°	1115	9	37.5	-67	13.9	9.5	^v
430	-65°	1119	9	35.2	-65	53.5	9.4	^v
431	-66°	1032	9	35.8	-66	8.0	8.6	^v
432	-66°	1034	9	36.1	-66	6.1	8.8	^v

cards made out.

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1913phae.proj.2152C

Saturday, May 10, 1913.

T321452 short disp.

No.	Int.	Class	Remarks.
433	7	Bg	
434	8	Ko	
435	2	A	
436	6	Cont.	A cluster. Dark H + K perhaps seen.
437	2	Ko	
438	4	Ko	
439	3	Go	
440	7	Bg	
441	3	Go	
442	2	Ao	
443	1	A	The northern of two.
444	2	Ko	
445	3	F5	
446	2	G5	
447	2	Go	
448	2	Ao	
449	6	G5	
450	2	G5	
451	3	Ko	
452	3	G5	
453	9	Bg	
454	4	Fo	
455	5	Ao	
456	9	Bg	
457	2	Ko	
458	4	A2	
459	3	Ao	

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1913phae.proj.21526

433	-64°	1011	9	9.5	-64	40.7	8.2	1 ✓
434	-64°	1017	9	11.9	-64	32.1	8.2	1 ✓
435	-64°	1010	9	9.1	-64	20.0	9.3	1 ✓
436	-64°	1012	9	9.6	-64	20.8	nib	1 ✓
437	-64°	1009	9	8.8	-64	6.0	9.2	1 ✓
438	-63°	1106 ~~2006~~	9	10.9	-63	40.8	8.9	1 ✓
439	-63°	1108 ~~2008~~	9	11.4	-63	40.7	8.7	1 ✓
440	-63°	1112 ~~2012~~	9	12.0	-63	37.9	8.2	1 ✓
441	-63°	1109 ~~2009~~	9	11.4	-63	51.4	8.9	1 ✓
442	-64°	1021	9	15.1	-64	18.6	9.2	1 ✓
443	-64°	1019	9	13.2	-64	42.0	9.5	1 ✓
444	-63°	1118	9	18.7	-63	58.6	9.5	1 ✓
445	-64°	1024	9	19.0	-64	6.0	8.8	1 ✓
446	-64°	1029	9	20.7	-64	14.6	9.4	1 ✓
447	-64°	1030	9	20.8	-64	29.7	9.2	1 ✓
448	-64°	1031	9	22.1	-64	29.7	9.1	1 ✓
449	-63°	1110 ~~2010~~	9	11.5	-63	10.6	8.3	1 ✓
450	-63°	1107 ~~2007~~	9	11.2	-63	9.9	9.2	1 ✓
451	-63°	1111 ~~2011~~	9	11.9	-63	20.5	9.1	1 ✓
452	-63°	1113 ~~2013~~	9	13.0	-63	27.0	9.1	1 ✓
453	-63°	1114 ~~2014~~	9	14.2	-63	15.1	7.2	1 ✓
454	-62°	1215	9	14.8	-62	51.8	8.4	1 ✓
455	-62°	1192	9	9.6	-62	23.9	8.0	1 ✓
456	-62°	1168	9	4.1	-62	20.7	7.6	1 ✓
457	-62°	1171	9	8.7	-62	29.5	9.2	1 ✓
458	-62°	1173	9	5.0	-62	23.2	8.8	1 ✓
459	-62°	1163	9	2.4	-62	56.2	8.8	1 ✓

cards made out.

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1913phae.proj.2152C

Saturday, May 10, 1913.

B 21452 chart disp.

No.	Int.	Class	Remarks
460	7	B8	
461	2	kp	
462	2	F5	
463	3	A0	
464	2	kp	Partly superposed on 463.
465	2	A2	" "
466	2	A0	" "
467	4	F8	
468	1	F5	Partly superposed on 469.
469	5	A2	
470	2	F0	
471	2	A0	
472	2	A0	E.
473	1	F5	E.
474	4	A0	E.
475	3	A3	E.
476	1	F2	E.
477	3	A0	E.
478	2	A	E.
479	5	F0	E.
480	3	A	E.
481	2	A2	E.
482	2	A0	E.
12.10 483	2	F5	E.
484			

cent. 135, 98 ✓

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1913phae.proj.2152C

460	-63°	1084	9	0.4	-63	13.1	8.2	1 ✓
461	-63°	1091	9	3.3	-63	34.8	9.2	1 ✓
462	-63°	1094	9	4.4	-63	18.0	9.1	1 ✓
463	-63°	1095	9	5.3	-63	25.6	8.9	1 ✓
464	-63°	10 97 98	9	5.4 5	-63	31.7	9.1 9.1	1 ✓
465	-63°	~~2000~~ 1100	9	7.1	-63	17.7	8.9	1 ✓
466	-63°	~~2003~~ 1103	9	8.9	-63	21.0	8.9	1 ✓
467	-68°	881	~~8~~ 9	0.0	-68	25.9	9.0	1 ✓
468	-68°	885	9	2.6	-68	39.8	10.0	1 ✓
469	-68°	886	9	2.7	-68	44.0	8.5	1 ✓
470	-68°	878	8	59.2	-68	45.1	9.8	1 ✓
471	-67°	1027	9	0.7	-67	51.3	9.4	1 ✓
472	-70°	818	8	44.0	-70	30.6	9.0	1 ✓
473	-70°	~~8+9~~ 820	8	44.6	-70	29.9	9.6	1 ✓
474	-70°	836	8	51.1	-70	48.7	8.7	1 ✓
475	-71°	758	8	50.8	-71	4.9	8.9	1 ✓
476	-71°	756	8	49.9	-71	0.0	9.6	1 ✓
477	-71°	763	8	53.4	-71	2.1	9.0	1 ✓
478	-71°	764	8	53.6	-71	9.5	9.3	1 ✓
479	-71°	767	8	54.8	-71	48.0	8.5	1 ✓
480	-71°	772	8	56.4	-71	45.8	8.5	1 ✓
481	-71°	776	8	59.0	-71	43.6	9.2	1 ✓
482	-71°	785	~~8~~ 9	5.0	-71	8.1	9.5	1 ✓
483	-71°	787	9	5.3	-71	15.1	9.1	1 ✓

Identified by J. C. M. July 23, 1913

Checked Oct. 23. 1913 D.W.

Cards made out by E.R.B.

Cards checked by A.M.C.

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1913phae.proj.2152C

Wednesday, May 14, 1913.

Time: 10.19 — I 38 22 long dif. — II 36 + 20.1

No.	Int.	Class	Remark.
1	8	F2	E.
2	3	g5	
3	1	g5	
4	7	F0	
5	2	A2	
6	8	F0	
7	7	A0	
8	2	Ma	
9	4	F5	
10	8	K3	
11	3	F0	
12	1	F0	
13	2	F5	
14	4	F5	
15	1	F5	
16	1	F0	
17	1	F0	
18	2	A0	
19	1	F5	
20	1	g5	
21	1	F0	
22	6	F3g	
23	1	F0	
24	2	g0	
25	2	F5	
26	4	g0	
27	2	g	E.

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1913phae.proj - 2152c

1	+17°	2356	11	18.1	+17	15.8	6.0	✓
2	+17°	2362	11	21.6	+17	11.0	8.4	✓
3	+16°	2265	11	21.5	+16	43.9	8.8	✓
4	+16°	2266	11	22.2	+16	13.0	6.2	✓
5	+17°	2363	11	22.4	+17	47.2	8.5	✓
6	+19°	2459	11	22.9	+19	12.6	5.7	✓
7	+18°	2505	11	24.0	+18	33.6	7.4	✓
8	+18°	2506	11	24.5	+18	57.7	8.1	✓
9	+18°	2507	11	25.3	+18	48.8	7.5	✓
10	+17°	2374	11	27.2	+17	35.5	5.7	✓
11	+18°	2510	11	28.1	+18	40.9	7.5	✓
12	+19°	2477	11	28.9	+19	23.7	9.0	✓
13	+19°	2479	11	29.2	+19	14.4	8.5	✓
14	+18°	2514	11	31.6	+18	38.0	7.7	✓
15	+18°	2515	11	32.1	+18	43.3	8.2	✓
16	+17°	2381	11	31.3	+17	54.0	8.4	✓
17	+17°	2382	11	31.9	+17	19.3	8.1	✓
18	+16°	2277	11	30.4	+16	34.8	8.8	✓
19	+17°	2384	11	33.0	+17	36.0	8.9	✓
20	+17°	2387	11	33.3	+17	49.0	8.7	✓
21	+18°	2517	11	33.3	+18	30.7	8.7	✓
22	+19°	~~2496~~ 2492	11	35.2	+19	3.9	*7.0	✓
23	+19°	2488	11	34.7	+19	26.2	9.0	✓
24	+19°	2491	11	35.1	+19	33.9	8.8	✓
25	+19°	2494	11	36.0	+19	3.6	8.5	✓
26	+17°	2392	11	36.3	+17	7.9	7.8	✓
27	+16°	2290	11	37.9	+16	31.7	8.8	✓

mags. 8.8 416° 2291 superposed

cards made out

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1913phae.proj.2152C

Wednesday, May 14, 1913.

I 38229 long disp.

Nr.	Int.	Class	Remark.
28	1	Ip	E.
29	6	Ip	
30	1	Fs	
31	4	Gs	
32	7	Fo	Line F appears faint for this class Comp?
33	6	G2	
34	4	Ip	
35	8	G2	Lines 4077 + 4128, 31 strong.
36	2	Ks	
37	7	G2	
38	1	K	
39	2	Fs	
40	4	F8	Line 4077 strong. May resemble 5 Capricorni.
41	6	F2	E.
42	9	G2	E.
43	4	Ko	E.
44	2	Ks	E.
45	2	Ks	E.
46	1	Ip	E.
47	1	Ip	
48	4	Ks	
49	4	Ko	
50	1	I	
51	1	K	
52	1	F8	
53	4	Fs	
54	2	Ks	

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1913phae.proj.2152C

28	+16°	2289	11	37.6	+16	7.7	8.5	✓
29	+15°	2374	11	37.7	+15	4.2	7.4	✓
30	+15°	2376	11	38.4	+15	49.8	9.0	✓
31	+15°	2378	11	39.4	+15	48.4	8.0	✓
32	+15°	2381	11	41.2	+15	5.6	7.0	✓
33	+15°	2383	11	41.7	+15	22.6	2.0	✓ Trail
34	+16°	2296	11	41.5	+16	55.7	7.2	✓
35	+17°	2402	11	41.7	+17	3.0	6.5	✓
36	+16°	2306	11	45.0	+16	40.7	8.0	✓
37	+16°	2307	11	45.3	+16	15.0	7.0	✓
38	+16°	2311	11	45.9	+16	47.2	8.8	✓
39	+17°	2409	11	45.7	+17	39.9	8.7	✓
40	+18°	2539	11	46.7	+18	58.4	7.5	✓
41	+18°	2546	11	50.3	+18	16.6	6.5	✓
42	+16°	2319	11	48.2	+16	27.9	6.0	✓
43	+21°	2314	11	16.9	+21	24.5	8.0	✓
44	+21°	2316	11	17.5	+21	12.8	7.8	✓
45	+20°	2601	11	18.1	+20	48.0	8.2	✓
46	+20°	2600	11	17.6	+20	16.8	8.2	✓
47	+21°	2317	11	18.6	+21	11.0	8.0	✓
48	+21°	2318	11	18.9	+21	17.1	7.5	✓
49	+20°	2607	11	20.6	+20	52.9	7.5	✓
50	+20°	2608	11	21.3	+20	44.5	8.8	✓
51	+19°	2462	11	23.3	+19	44.1	9.0	✓
52	+19°	2463	11	23.5	+19	39.4	9.0	✓
53	+19°	2468	11	25.6	+19	37.3	8.5	✓
54	+20°	2616	11	25.5	+20	20.3	8.4	✓

cards made out

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1913phae.proj.2152C

Wednesday, May 14, 1913.
I 3822 q long disp.

No.	Int.	Class	Remark.
55	5	K2	
56	8	K0	
57	2	K8	
58	1	K5	
59	3	A3	
60	1	K	
61	3	K5	Nearly all superposed on 62.
62	6	K5	
63	2	K0	
64	3	K0	
65	3	K5	
66	1	K	
67	2	K0	
68	1	K	
69	4	A3	
70	5	K0	
71	5	K5	
72	7	K5	
73	6	A2	
74	2	K2	
75	2	K0	
76	1	K5	
77	4	K8	
78	1	K5	
79	3	K0	
80	1	Ma	
81	1	K0	

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1913phae.proj.2152C

55	+20°	2618	11	26.0	+20	29.6	7.5 ✓
56	+21°	2331	11	27.5	+21	14.5	6.5 ✓
57	+20°	2622	11	28.3	+20	54.8	8.6 ✓
58	+20°	2621	11	27.5	+20	23.7	8.8 ✓
59	+20°	2631	11	30.9	+20	54.6	8.0 ✓
60	+20°	2628	11	30.4	+20	7.9	8.5 ✓
61	+19°	2482	11	32.1	+19	48.3	8.8 ✓
62	+19°	2483	11	32.1	+19	47.9	7.5 ✓
63	+20°	2641	11	34.0	+20	19.9	8.5 ✓
64	+21°	2343	11	34.1	+21	13.1	8.6 ✓
65	+21°	2345	11	35.3	+21	53.2	8.0 ✓
66	+21°	2346	11	35.6	+21	3.8	8.7 ✓
67	+21°	2347	11	35.7	+21	10.0	8.0 ✓
68	+19°	2496	11	36.6	+19	58.2	8.6 ✓
69	+20°	2644	11	37.5	+20	18.7	8.0 ✓
70	+20°	2645	11	37.8	+20	43.1	7.5 ✓
71	+21°	2353	11	38.6	+21	7.7	8.1 ✓
72	+20°	2650	11	40.0	+20	49.8	7.8 ✓
73	+20°	2648	11	39.7	+20	7.0	7.5 ✓
74	+217°	2394	11	37.6	+217	58.5	8.6 ✓
75	+19°	2499	11	38.8	+19	29.7	8.7 ✓
76	+18°	2529	11	39.8	+18	39.9	9.0 ✓
77	+19°	2503	11	41.4	+19	38.8	7.8 ✓
78	+19°	2504	11	41.5	+19	33.9	8.8 ✓
79	+19°	2506	11	42.2	+19	44.6	8.0 ✓
80	+19°	2505	11	42.0	+19	32	8.5 ✓
81	+18°	2532	11	42.6	+18	42.0	8.8 ✓

cards made out

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1913phae.proj.2152C

Wednesday, May 14, 1913.

I 38229 long disp.

No.	Int.	Class	Remark
82	1	N0	
83	1	F5	
84	2	N0	
85	3	N2	
86	7	F5	
87	3	G5	
88	4	G0	
89	3	G5	Patty superposed on 88.
90	1	N0	
91	1	A2	
92	1	A	
93	1	G5	
94	3	G5	
95	5	N?	E.
96	6	F0	E.
97	5	G5	
98	5	A3	
99	2	N0	
100	2	N2	
101	2	A	E.
102	2	G5	Another star superposed on pr. side.
103	1	G5	
104	3	F5	
105	6	A3	
106	2	N2	
107	3	G5	
108	2	G0	

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1913phae..proj..2152C

82	+18°	2531	11	42.4	+ 18	12.8	9.1	✓
83	+19°	2509	11	43.4	+19	27.0	8.9	✓
84	+19°	2510	11	43.6	+19	39.7	8.5	✓
85	+19°	2511	11	44.7	+19	34.2	8.0	✓
86	+21°	2367	11	45.0	+ 21	12.8	7.0	✓
87	+21°	2372	11	46.4	+21	8.9	8.5	✓
88	+20°	2658	11	47.2	+20	12.6	8.2	✓
89	+20°	2659	11	47.2	+20	13.9	8.2	✓
90	+19°	2514	11	46.3	+19	34.9	8.9	✓
91	+19°	2515	11	46.8	+19	25.3	9.3	✓
92	+18°	2541	11	47.0	+18	23.7	8.6	✓
93	+18°	2542	11	47.1	+18	42.4	8.6	✓
94	+20°	2661	11	50.1	+20	47.7	7.8	✓
95	+20°	2664	11	52.7	+20	13.9	6.9	✓
96	+23°	2349	11	18.5	+23	31.3	7.0	✓
97	+22°	2362	11	19.4	+22	39.7	7.5	✓
98	+23°	2358	11	23.8	+23	37.6	7.5	✓
99	+22°	2374	11	25.8	+22	23.4	8.5	✓
100	+22°	2375	11	26.6	+22	49.7	8.2	✓
101	+23°	2361	11	26.8	+23	41.1	8.0	✓
102	+22°	2381	11	29.1	+22	15.7	9.1	✓ +22° 2379 superposed magn. 9.4
103	+21°	2333	11	29.2	+21	52.3	8.5	✓
104	+22°	2383	11	30.1	+22	30.3	8.0	✓
105	+22°	2384	11	30.3	+22	32.6	7.0	✓
106	+22°	2385	11	30.6	+22	40.2	7.3	✓
107	+22°	2387	11	32.0	+22	7.2	8.0	✓
108	+22°	2389	11	32.7	+22	11.3	8.6	✓

cards made out

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1913phae.proj.2152C

Wednesday, May 14, 1913.

I 38229 long disp.

Nr.	Int	Class	Remark.
109	3	fy^5	
110	8	fy^5	
111	7	$\mathcal{F}2$	
112	6	Aa^3	
113	2	Aa^3	
114	4	$\mathcal{F}0$	
115	6	$\mathcal{F}5$	
116	2	$\mathcal{F}0$	
117	1	$\mathcal{F}2$	
118	1	$\mathcal{F}$	
119	1	$\mathcal{F}2$	
120	1	fy^5	
121	1	fy^5	
122	2	$\mathcal{F}8$	
123	1	fy	
124	3	$\mathcal{F}2$	
125	10	$\mathcal{F}5$	
126	2	fy^5	
127	2	$\mathcal{F}2$	
128	1	$\mathcal{F}2$	
129	2	fy^0	
130	1	$\mathcal{F}0$	
131	4	$\mathcal{F}8$	
132	4	Aa^0	
~~10.~~	133	3	$\mathcal{F}0$ E.
	134	4	$\mathcal{F}0$
10.40	135	4	$\mathcal{F}2$ E.

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1913phae..proj..2152C

109	+21°	2342	11	33.1	+21	50.6	7.8	✓
110	+22°	2391	11	33.3	+22	9.3	5.5	✓
111	+23°	2375	11	34.6	+23	1.1	6.5	✓
112	+24°	2378	11	32.6	+24	30.8	6.9	✓
113	+24°	2383	11	34.4	+24	15.1	7.8	✓
114	+24°	2386	11	36.8	+24	48.5	7.0	✓
115	+24°	2394	11	39.5	+24	31.1	6.8	✓
116	+22°	2396	11	36.9	+22	11.0	8.2	✓
117	+21°	2348	11	37.1	+21	45.1	8.5	✓
118	+22°	2400	11	37.6	+22	21.3	9.1	✓
119	+23°	2380	11	37.0	+23	10.6	8.6	✓
120	+23°	2381	11	37.3	+23	2.3	9.8	✓
121	+23°	2385	11	39.2	+23	15.0	9.0	✓
122	+22°	2407	11	42.2	+22	54.0	8.7	✓
123	+21°	2360	11	41.3	+21	40.6	8.7	✓
124	+21°	2361	11	41.4	+21	18.5	8.2	✓
125	+21°	2358	11	40.5	+21	2.4	4.0	✓
126	+20°	2654	11	41.9	+20	36.5	9.0	✓
127	+21°	2366	11	42.6	+21	5.8	8.3	✓
128	+21°	2365	11	42.6	+21	57.1	8.9	✓
129	+22°	2409	11	42.8	+22	15.8	8.5	✓
130	+23°	2396	11	43.6	+23	22.6	8.5	✓
131	+22°	2421	11	48.6	+22	48.6	7.8	✓
132	+23°	2407	11	49.8	+23	26.8	7.8	✓
133	+22°	2425	11	50.9	+22	26.2	8.2	✓
134	+24°	2374	11	31.1	+24	7.8	7.0	✓
135	+25°	2388	11	24.2	+25	7.1	7.1	✓

Cards punched by C. Checked by Ann C. June 28, 1913 Identified by M. C. W. June 23, 1913

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1913phae.proj.2152C

Wednesday, May 14, 1913.

June 11.16

B38748 short disp

Nr.	Int	Class	Remark.
1	2	Ma	C.
2	2	M5	C.
3	2	G	
4	3	M0	
5	2	A0	
6	4	A0	
7	3	A2	
8	3	M3	
9	7	M3	
10	2	M5	
11	10	A	
12	2	A0	
13	6	M3	
14	1	A0	
15	1	K5	
16	2	A	Nearly all superposed on 17.
17	2	A0	
18	7	A0	
19	3	M5	
20	1	A	Partly superposed on 19.
21	3	A2	
22	1	A	
23	2	A5	
24	3	M0	
25	4	A2	
26	1	K5	
27	1	A	

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1913phae.proj.2152c

1	-61°	1125	8	53.7	-61	23.8	8.9	✓
2	-61°	1126	8	53.8	-61	9.8	8.9	✓
3	-60°	1266	8	55.0	-60	47.0	8.6	✓
4	-60°	1318	9	4.8	-60	40.2	8.5	✓
5	-60°	1321	9	5.1	-60	40.2	8.8	✓
6	-60°	1351	9	9.6	-60	34.4	8.2	✓
7	-60°	1354	9	9.8	-60	34.2	8.4	✓
8	-60°	1361	9	10.6	-60	42.4	8.0	✓
9	-60°	1366	9	10.8	-60	45.7	7.2	✓
10	-60°	1369	9	11.0	-60	23.4	8.8	✓
11	-60°	1353	9	9.8	-60	24.1	6.4	✓
12	-60°	1358	9	10.0	-60	9.1	8.8	✓
13	-60°	1367	9	11.0	-60	1.1	7.5	✓
14	-59°	1322	9	11.5	-59	51.9	8.7	✓
15	-59°	1336	9	13.5	-59	45.5	9.2	✓
16	-59°	1338	9	13.8	-59	24.5	8.4	✓
17	-59°	1339	9	13.8	-59	22.0	8.7	✓
18	-59°	1346	9	15.0	-59	7.3	7.8	✓
19	-59°	1340	9	14.2	-59	4.1	8.6	✓
20	-59°	1341	9	14.2	-59	0.0	9.4	✓
21	-58°	1474	9	14.7	-58	45.9	9.0	✓
22	-58°	1477	9	15.0	-58	53.9	9.4	✓
23	-58°	1480	9	15.6	-58	51.2	9.0	✓
24	-58°	1485	9	16.4	-58	56.8	9.0	✓
25	-58°	1487	9	16.5	-58	41.3	8.4	✓
26	-59°	1354	9	17.2	-59	22.0	9.4	✓
27	-59°	1355	9	17.3	-59	15.0	9.3	✓

cards made out

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1913phae.proj.2152C

Wednesday, May 14, 1913.

B38748 short disp 9 18 -58.0

No.	Int.	Class	Remark.
28	1	A	
29	1	K5	Hδ bright? Cock up's lightline
30	7	A0	
31	5	F5	
32	1	K5	
33	2	K5	
34	5	A0	
35	2	G5	
36	4	A0	
37	7	A0	
38	3	A3	
39	3	F5	
40	3	A3	
41	2	A0	
42	8	B8	
43	9	K0	Burned out.
44	4	A0	
45	3	A3	
46	3	A0	
47	1	K2	
48	4	A0	
49	1	K5	
50	2	K2	
51	4	F0	
52	2	K0	
53	1	K2	
54	7	G0	

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1913phae.proj.2152c

28	-59°	1358	9	17.6	-59	7.7	9.5	✓
29	-58°	1495	9	17.8	-58	55.2	9.6	✓
30	-59°	1372	9	19.7	-59	1.3	8.1	✓
31	-59°	1353	9	17.0	-59	57.5	8.0	✓
32	-60°	1391	9	17.0	-60	1.3	9.0	✓
33	-59°	1356	9	17.4	-59	51.0	9.3	✓
34	-60°	1398	9	18.0	-60	1.7	8.3	✓
35	-60°	1393	9	17.8	-60	19.5	9.0	✓
36	-60°	1394	9	17.8	-60	29.2	8.4	✓
37	-60°	1402	9	18.3	-60	17.9	7.4	✓
38	-60°	1404	9	18.8	-60	22.7	8.5	✓
39	-60°	1409	9	19.6	-60	33.4	8.7	✓
40	-60°	1412	9	20.9	-60	37.7	8.6	✓
41	-61°	1256	9	19.2	-61	16.2	8.6	✓
42	-61°	1241	9	17.5	-61	27.7	7.6	✓
43	-61°	1242	9	17.9	-61	52.3	6.8	✓
44	-62°	1219	9	16.4	-62	12.2	8.0	✓
45	-62°	1214	9	14.4	-62	23.4	8.2	✓
46	-61°	1229	9	15.0	-61	17.9	8.4	✓
47	-61°	1231	9	15.1	-61	9.1	9.0	✓
48	-60°	1372	9	11.6	-60	59.3	8.6	✓
49	-60°	1384	9	15.2	-60	45.8	8.9	✓
50	-60°	1386	9	15.4	-60	31.4	8.9	✓
51	-60°	1387	9	15.6	-60	27.0	8.5	✓
52	-59°	1368	9	19.0	-59	55.7	9.2	✓
53	-59°	1370	9	19.4	-59	44.2	9.3	✓
54	-59°	1374	9	20.1	-59	45.9	8.4	✓

Cards made out.

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1913phae.proj.2152C

Wednesday, May 14, 1913.

B38748 short disp.

	No.	Int.	Class	Remark.
	55	3	Bg	
11.26	56	5	M0	
3.19	57	2	K2	
	58	9	Bg	
	59	21	a2	
	60	5	K0	
	61	3	a0	
	62	21	K2	
	63	7	B8	
	64	21	f5	
	65	1	f8	
	66	1	a0	
	67	21	f5	
	68	3	K2	
	69	7	a0	
	70	5	a0	
	71	21	a0	
	72	3	K5	
	73	5	K0	
	74	7	g0	
	75	21	K5	
	76	1	K0	
	77	1	a2	
	78	1	M5	
	79	1	K0	
	80	21	K2	
	81	1	a	

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1915phae.proj.2152c

55	-59°	1384	9	22.1	-59	20.8	8.9	✓
56	-59°	1389	9	22.6	-59	12.0	8.6	✓
57	-59°	1381	9	21.6	-59	1.7	9.4	✓
58	-59°	1394	9	23.3	-59	2.2	6.9	✓
59	-58°	1526	9	23.6	-58	49.5	9.1	✓
60	-58°	1536	9	24.9	-58	36.1	8.6	✓
61	-58°	1523	9	23.5	-58	27.7	8.7	✓
62	-58°	1524	9	23.5	-58	12.7	9.2	✓
63	-58°	1530	9	24.0	-58	23.2	7.9	✓
64	-58°	1538	9	25.0	-58	56.6	8.9	✓
65	-58°	1543	9	25.4	-58	57.2	8.9	✓
66	-59°	1405	9	25.6	-59	3.3	9.2	✓
67	-58°	1442	9	25.3	-58	48.1	9.2	✓
68	-58°	1545	9	25.9	-58	40.9	8.9	✓
69	-59°	1402	9	25.2	-59	27.8	8.1	✓
70	-59°	1398	9	24.0	-59	42.0	8.3	✓
71	-59°	1397	9	23.9	-59	58.9	8.8	✓
72	-59°	1403	9	25.6	-59	53.6	8.8	✓
73	-59°	1408	9	27.6	-59	54.1	8.6	✓
74	-59°	1414	9	29.1	-59	58.2	7.9	✓
75	-59°	1412	9	28.1	-59	38.1	9.1	✓
76	-59°	1409	9	27.7	-59	21.3	9.2	✓
77	-59°	1413	9	28.1	-59	28.7	9.2	✓
78	-59°	1410	9	27.9	-59	2.1	9.2	✓
79	-58°	1561	9	27.7	-58	51.8	9.5	✓
80	-58°	1570	9	29.2	-58	47.9	9.2	✓
81	-58°	1572	9	30.1	-58	53.3	9.2	✓

cards made out

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1913phae.proj.2152C

Wednesday May 14, 1913

B 38748 Flint

no.	Int.	class	Remarks
82	1	a0	
83	1	K0	
84	3	a0	
85	2	K5	The preceding of 2
86	3	a0	
87	10+	?	Completely burned out.
88	4	a2	
89	3	B8	
90	6	B9	
91	10	a	Burned out.
92	3	K2	
93	4	a2	
94	3	a3	
95	5	a0	
96	3	B9	
97	3	F8	
98	4	F5	
99	3	K5	
100	1	K2	
101	7	G5	
102	9	G5	
103	3	B9	
104	1	a	
105	2	a0	
106	2	a2	
107	1	a5	
108	2	a2	The preceding of 2

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1919phae.proj.21526

82	-59°	1421	9	31.2	-59	13.3	9.0	✓
83	-59°	1425	9	31.9	-59	19.4	9.2	✓
84	-58°	1583	9	32.2	-58	55.0	8.9	✓
85	-58°	1580	9	31.8	-58	38.8	9.4	✓
86	-58°	1579	9	31.3	-58	29.2	8.9	✓
87	-58°	1576	9	30.8	-58	40.3	4.7	✓
88	-58°	1578	9	31.1	-58	1.8	8.6	✓
89	-57°	2139	9	30.6	-57	52.2	8.6	✓
90	-57°	2126	9	29.8	-57	49.8	8.0	✓
91	-57°	1949	9	11.9	-57	52.1	6.2	✓
92	-58°	1430	9	9.5	-58	8.4	9.2	✓
93	-57°	1926	9	9.3	-57	12.1	8.6	✓
94	-56°	2049	9	9.5	-56	55.9	8.6	✓
95	-56°	2058	9	11.0	-56	43.2	8.4	✓
96	-56°	2060	9	11.3	-56	42.2	8.8	✓
97	-56°	2062	9	11.4	-56	33.6	8.8	✓
98	-56°	2069	9	12.4	-56	30.2	8.6	✓
99	-57°	1943	9	11.2	-57	8.6	8.7	✓
100	-57°	1947	9	11.6	-57	9.7	8.9	✓
101	-57°	1951	9	12.1	-57	3.5	7.4	✓
102	-57°	1961	9	12.7	-57	1.3	7.3	✓
103	-56°	2073	9	12.9	-56	58.5	8.7	✓
104	-57°	1958 ~~1970~~	9	12.5 ~~13.6~~	-57	3.1 ~~17.3~~	8.9 ~~9.1~~	✓
105	-57°	1959	9	12.6	-57	41.0	8.8	✓
106	-57°	1964	9	12.8	-57	46.8	8.8	✓
107	-58°	1436	9	10.9	-58	23.4	9.2	✓
108	-58°	1439	9	11.1	-58	18.5	9.3	✓

cards made out.

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1913phae.proj.2152C

Wednesday May 14, 1913.

B38748 Short.

No.	Dur.	Class	Remarks
109	3	A0	
110	1	K	
111	5	F2	
112	7	A0	
113	6	F5	
114	3	B9	
115	21	A0	
116	3	B9	
117	1	A0	
118	7	F8	
119	4	K0	
120	21	K5	
121	21	mb	
122	1	A2	
123	6	B8	
124	5	B9	
125	21	A0	
126	3	A2	
127	21	K5	
128	3	A0	
129	21	P	γ=10 β=8, 4959=50, 5007=80 δ=1 ε=10 ζ=20
130	4	A0	
131	7	B3	
132	4	B9	
133	21	F5	
134	7	G0	
135	21	A0	

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1919phae.proj.21526

109	-58°	1445	9	11.6	-58	20.3	8.9	✓
110	-58°	1450	9	12.2	-58	21.4	8.6	✓
111	-58°	1446	9	11.9	-58	18.1	9.6	✓
112	-58°	1457	9	13.0	-58	15.8	8.8	✓
		1458	9		-58	16.2	9.0	
113	-58°	1469	9	14.0	-58	12.4	8.1	✓
114	-58°	1456	9	13.0	-58	42.7	8.6	✓
115	-58°	1459	9	13.1	-58	33.7	8.9	✓
116	-58°	1466	9	13.8	-58	32.0	8.6	✓
117	-58°	1481	9	15.6	-58	27.5	9.3	✓
118	-58°	1482	9	15.9	-58	24.0	7.6	✓
119	-58°	1488	9	16.7	-58	24.3	8.6	✓
120	-58°	1492	9	17.3	-58	20.8	9.2	✓
121	-58°	1494	9	17.8	-58	9.0	9.6	✓
122	-58°	1497	9	18.1	-58	18.8	9.1	✓
123	-58°	1501	9	18.9	-58	12.0	8.3	✓
124	-58°	1507	9	19.3	-58	1.6	8.4	✓
125	-58°	1502	9	18.9	-58	2.9	9.0	✓
126	-57°	2002	9	18.4	-57	47.9	8.7	✓
127	-57°	2004	9	19.0	-57	34.4	9.1	✓
128	-57°	1993	9	17.2	-57	44.2	8.7	✓
	Announced Po. 19009			18.6	-57	53		
129	Approx.	1875	9	18.0	-57	46.		✓
130	-57°	2023	9	20.7	-57	51.9	9.0	✓
131	-58°	1513	9	21.1	-58	8.9	8.0	✓
132	-58°	1514	9	21.4	-58	39.3	8.7	✓
133	-58°	1515	9	22.5	-58	40.1	9.2	✓
134	-57°	2058	9	23.9	-57	32.9	7.7	✓
135	-57°	2067	9	24.7	-57	19.7	9.0	✓

cards made out.

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1913phae.proj.2152C

Wednesday May 14, 1913

B 38748 short.

No.	Int.	Class	Remarks
136	1	Ks	
137	1	K	
138	7	B8	
139	4	A	Partly superposed on 140 And on this plate superposed at South
140	6	Bq	
141	3	Ao	The preceding of 2
142	8	Ko	
143	2	Go	
144	7	Ma	
145	2	Ao	
146	3	Ao	
147	1	Ko	
148	2	Ao	
149	6	Bq	
150	3	Ma	Partly superposed on 151
151	8	Bq	
152	3	Ao	
153	2	Ao	
154	5	Ko	
155	3	A2	
156	2	A5	
157	1	K2	
158	1	K5	
159	7	K2	
160	3	Fo	
161	2	Ao	
162	1	A	

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1910phae.proj.21526

136	-57°	2073	9	25.2	-57	11.7	9.2	✓
137	-57°	2077	9	25.7	-57	16.7	9.6	✓
138	-57°	2071	9	24.9	-57	47.3	7.6	✓
139	-58°	1532	9	24.4	-58	1.5	8.4	✓ magn. 9.1 −58° 1531 superposed
140	-57°	2065	9	24.4	-57	57.9	8.2	✓
141	-58°	1540	9	25.3	-58	1.4	8.6	✓
142	-57°	2081	9	26.0	-57	45.1	7.9	✓
143	-57°	2094	9	27.0	-57	34.8	8.8	✓
144	-57°	2090	9	26.7	-57	48.7	7.7	✓
145	-58°	1551	9	26.7	-58	0.6	8.6	✓
146	-58°	1546	9	26.3	-58	19.2	8.8	✓
147	-58°	1555	9	27.1	-58	9.6	9.2	✓
148	-57°	2102	9	27.8	-57	52.5	9.0	✓
149	-57°	2110	9	28.7	-57	23.5	7.6	✓
150	-57°	2120	9	29.5	-57	19.7	8.4	✓
151	-57°	2122	9	29.5	-57	24.4	6.9	✓
152	-57°	2128	9	29.9	-57	8.8	8.8	✓
153	-57°	2136	9	30.4	-57	17.8	9.0	✓
154	-57°	2159	9	32.4	-57	28.0	8.4	✓
155	-57°	1978	9	14.7	-57	34.7	8.7	✓
156	-57°	1977	9	14.7	-57	26.4	8.6	✓
157	-57°	1976	9	14.6	-57	15.4	9.1	✓
158	-57°	1975	9	13.6 ~~14.3~~	-57	17.3 ~~14.2~~	9.1	✓
159	-56°	2095	9	14.8	-56	44.8	8.0	✓
160	-56°	2096	9	14.8	-56	38.4 37.6	8.7	✓
161	-56°	2091	9	14.2	-56	37.6	8.7	✓
162	-56°	2083	9	13.6	-56	41.1	9.0	✓

cards made out.

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1913phae.proj.2152C

Wednesday May 14, 1913

B 38748

No	Dist.	Class
163	6	F5
164	9	A2
165	3	K2
166	6	K0
167	5	A3
168	2	K2
169	3	A5
170	5	B8
171	2	K5
172	3	A0

3.42

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1913phae..proj..21526

163	-56°	2078	9	13.1	-56	13.6	8.0 ✓
164	-55°	2080	9	15.5	-55	50.3	7.4 ✓
165	-55°	2099	9	16.9	-55	57.2	8.6 ✓
166	-56°	2115	9	18.0	-56	22.2	7.9 ✓
167	-56°	2105	9	16.4	-56	38.2	8.2 ✓
168	-56°	2112	9	17.5	-56	44.4	8.8 ✓
169	-56°	2132	9	20.0	-56	41.5	8.6 ✓
170	-56°	2154	9	21.8	-56	49.3	7.6 ✓
171	-56°	2160	9	22.3	-56	43.0	9.0 ✓
172	-57°	2045	9	22.6	-57	10.1	8.6 ✓

Identified by J. C. M. July 26, 1913
Checked by A.M.C. October 9, 1913
Cards made out by S.R.B.
Cards checked by A.M.C.

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1913phae.proj.2152C

Thursday, May 15, 1913.

Time: 10.23

B40096 short disp. q 17 -63.0

No.	Int.	Class	Remark:
1	3	a	E.
2	2	g	E
3	2	a0	
4	2	a	
5	2	a	
6	2	F2	
7	2	a3	
8	2	K0	
9	2	K0	
10	1	a3	
11	1	F5	
12	2	a3	
13	2	ma	
14	1	K0	
15	1	F0	
16	1	a0	
17	3	F0	
18	1	K5	
19	4	g5	
20	1	g5	
21	4	F5	
22	1	K2	
23	2	F2	
24	1	a0	
25	1	B9	
26	1	K2	
27	2	ma	

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1913phae.proj.21526

1	−63°	1043	8	46.4	−63	24.3	8.6 ✓
2	−63°	1054	8	49.6	−63	12.5	8.8 ✓
3	−62°	1118	8	49.8	−62	59.9	8.8 ✓
4	−62°	1111	8	48.3	−62	39.3	8.9 ✓
5	−62°	1114	8	49.2	−62	12.1	9.0 ✓
6	−62°	1115	8	49.3	−62	14.0	9.0 ✓
7	−61°	1106	8	50.6	−61	58.2	9.2 ✓
8	−61°	1114	8	52.3	−61	34.6	9.4 ✓
9	−61°	1121	8	53.5	−61	44.2	9.3 ✓
10	−61°	1118	8	52.8	−61	13.4	9.3 ✓
11	−61°	1127	8	54.4	−61	24.8	9.6 ✓
12	−61°	1139	8	55.8	−61	46.2	8.9 ✓
13	−62°	1135	8	53.9	−62	43.7	9.3 ✓
14	−62°	1146	8	56.9	−62	32.9	9.3 ✓
15	−62°	1147	8	57.0	−62	10.9	9.3 ✓
16	−61°	1154	8	57.9	−61	53.9	9.5 ✓
17	−61°	1158	8	58.5	−61	36.3	9.0 ✓
18	−60°	1286	8	58.3	−60	57.4	9.6 ✓
19	−60°	1277	8	56.3	−60	50.0	8.8 ✓
20	−60°	1273	8	56.0	−60	46.0	9.3 ✓
21	−60°	1270	8	55.3	−60	49.9	9.0 ✓
22	−60°	1302	9	1.0	−60	46.2	9.7 ✓
23	−61°	1169	9	1.4	−61	23.7	9.3 ✓
24	−61°	1170	9	1.5	−61	37.1	9.5 ✓
25	−61°	1171	9	1.7	−61	46.1	9.6 ✓
26	−61°	1165	8	0.4	−61	44.0	9.8 ✓
27	−62°	1151	8	57.9	−62	51.1	9.3 ✓

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1913phae.proj.2152C

Thursday, May 15, 1913.
B40096 short disp.

No.	Int.	Class	Remark:
28	1	a_2	
29	3	f_2	
30	1	g_0	
31	2	K_2	
32	3	f_0	
33	1	g_5	
34	3	a_0	
35	3	a_2	
36	2	a_0	
37	2	a_0	
38	2	f_0	
39	1	a_2	
40	2	K_0	
41	1	K_2	
42	3	a_0	
43	2	B_9	
44	3	a_0	
45	1	K_2	
46	3	f_8	
47	2	a_0	
48	2	f_5	
49	1	K_0	
50	1	f_8	
51	2	g_5	(The n. f. of two)
52	1	K_0	
53	3	a_0	
54	1	"	g_5

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1913phae.proj.2152C

28	−62°	11 ~~57~~ 59	9	0 ~~2~~ 2	−62	~~59~~ 5.7	~~9.6~~ 9.3	✓
29	−62°	1164	9	2.4	−62	16.9	8.9	✓
30	−62°	1166	9	2.9	−62	20.4	9.4	✓
31	−62°	1171	9	4.7	−62	29.5	9.2	✓
32	−61°	1197	9	7.0	−61	46.5	8.8	✓
33	−61°	1176	9	3.1	−61	36.8	9.6	✓
34	−60°	1328	9	6.2	−60	54.6	9.0	✓
35	−60°	1329	9	6.2	−60	43.1	9.0	✓
36	−60°	1325	9	5.8	−60	41.8	8.9	✓
37	−60°	1335	9	7.5	−60	58.7	9.0	✓
38	−60°	1336	9	7.7	−60	49.4	8.9	✓
39	−60°	1340	9	8.1	−60	36.2	9.4	✓
40	−60°	1343	9	8.8	−60	41.8	9.2	✓
41	−60°	1350	9	9.5	−60	51.2	9.8	✓
42	−61°	1211	9	10.7	−61	9.9	8.6	✓
43	−61°	1206 ~~7~~	9	~~9.8~~ 10.3	−61	~~44.9~~ 24.0	~~9.9~~ 8.8	✓
44	−61°	1212	9	11.2	−61	35.7	8.6	✓
45	−61°	1206	9	9.8	−61	44.9	9.9	✓
46	−61°	1208	9	10.3	−61	54.4	8.6	✓
47	−62°	1194	9	10.3	−62	8.7	8.6	✓
48	−62°	1188	9	8.6	−62	25.9	8.8	✓
49	−62°	1181	9	7.4	−62	24.0	9.3	✓
50	−61°	1185	9	5.2	−61	58.7	9.3	✓
51	−61°	1193	9	6.4	−61	20.7	9.3	✓
52	−61°	1195	9	6.8	−61	19.3	9.3	✓
53	−61°	1219	9	12.4	−61	5.0	8.7	✓
54	−60°	1375	9	12.6	−60	51.8	9.5	✓

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1913phae.proj.2152C

Thursday, May 15, 1913.
B4009 short disp.

No.	Int	Class	Remarks
55	2	F0	
56	2	F2	
57	1	Ma	
58	1	G5	
59	1	F5	
60	2	F0	
61	2	A2	
62	1	A	
63	1	F0	
64	1	F8	
65	1	G5	
66	2	A0	
67	1	F0	
68	2	A	
69	1	F5	
70	2	A0	
71	2	A	
72	1	A	
73	4	G0	
74	1	F5	
75	4	A0	
76	4	B9	
77	3	A0	
78	3	A2	
79	2	B8	
80	3	A0	
81	1	F0	

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1913phae.proj.2152C

55	-60°	1378	9	13.1	-60	38.4	9.2	✓
56	-60°	1379	9	13.2	-60	39.1	9.0	✓
57	-60°	1358	9	~~10.0~~ 9.87	-60	~~9.1~~ 10.0	~~8.8~~ 9.8	✓
58	-60°	~~1364~~	9	10.8	-60	12.2	9.3	✓
59	-60°	1360	9	10.5	-60	28.0	9.7	✓
60	-60°	1363	9	10.7	-60	49.4	9.3	✓
61	-60°	1370	9	11.2	-60	26.5	9.2	✓
62	-59°	1329	9	12.2	-59	52.9	9.5	✓
63	-60°	1377	9	12.9	-60	8.0	9.5	✓
64	-59°	1336	9	13.5	-59	45.5	9.2	✓
65	-60°	1381	9	13.5	-60	5.0	9.6	✓
66	-59°	1327	9	12.0	-59	44.8	9.4	✓
67	-59°	1347	9	15.4	-59	47.9	9.4	✓
68	-60°	1383	9	14.8	-60	42.0	~~9.7~~ 9.8	✓ -60° 1382 superposed magn. 9.9
69	-60°	1385	9	15.3	-60	55.8	9.6	✓
70	-61°	1234	9	15.3	-61	3.1	9.3	✓
71	-61°	1235	9	15.7	-61	23.7	9.0	✓
72	-61°	1236	9	16.0	-61	23.5	9.6	✓
73	-61°	1238	9	16.4	-61	12.7	8.5	✓
74	-61°	1222	9	13.3	-61	29.9	9.4	✓
75	-61°	1225	9	14.1	-61	47.9	8.6	✓
76	-61°	1224	9	14.0	-61	54.9	8.2	✓
77	-61°	1226	9	14.2	-61	54.9	8.8	✓
78	-62°	1212	9	13.7	-62	9.4	8.4	✓
79	-62°	1209	9	13.3	-62	21.2	8.5	✓
80	-62°	1200	9	11.5	-62	12.7	8.8	✓ -62° 1201 superposed
81	-62°	1198	9	11.2	-62	41.2	9.3	✓

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1913phae.proj.2152C

Thursday, May 15, 1913.

B 4009 6 short exps

No.	Int.	Class	Remarks
82	2	A3	
83	2	A0	
84	2	A0	
85	3	A0	
86	3	F0	
87	2	A2	
88	1	A	
89	1	A	
90	3	G0	
91	1	A	
92	1	G5	
93	2	F5	
94	1	A3	
95	2	F0	
96	2	A	Partly superposed on 95.
97	1	A0	
98	2	G5	
99	2	A	Another star superposed?
100	1	F5	
161	3	A0	
102	2	B9	
103	1	F0	
104	2	G5	
105	3	A0	
106	2	G0	
107	2	F5	
108	1	F5	

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1913phae.proj.2152C

82	−62°	1202	9	11.8	−62	39.2	9.0 ✓
83	−62°	1205	9	12.8	−62	42.4	9.0 ✓
84	−62°	1217	9	15.6	−62	25.9	8.9 ✓
85	−62°	1223	9	18.5	−62	28.9	8.7 ✓
86	−62°	1224	9	18.9	−62	32.2	8.7 ✓
87	−63°	1119	9	19.0	−63	6.3	8.9 ✓
88	−63°	1120	9	20.3	−63	7.8	9.2 ✓
89	−63°	1121	9	20.4	−63	7.5	9.3 ✓
90	−63°	1122	9	21.5	−63	10.6	8.7 ✓
91	−62°	1234	9	22.6	−62	18.6	9.3 ✓
92	−62°	1238	9	24.6	−62	21.4	9.3 ✓
93	−62°	1237	9	24.4	−62	3.0	9.2 ✓
94	−61°	1274	9	24.2	−61	38.1	9.4 ✓
95	−61°	1268	9	21.5	−61	49.2	9.3 ✓
96	−61°	1267	9	21.5	−61	55.1	9.1 ✓
97	−62°	1232	9	19.8	−62	7.0	9.3 ✓
98	−61°	1262	9	19.9	−61	42.6	9.2 ✓
99	−61°	1252	9	18.7	−61	31.0	9.2 middle of three stars
100	−61°	1246	9	18.3	−61	30.2	9.0 ✓
101	−61°	1244	9	18.2	−61	25.1	8.7 ✓
102	−61°	1249	9	18.5	−61	13.0	8.8 ✓
103	−60°	1411	9	20.4	−60	39.3	9.8 ✓
104	−60°	1416	9	21.4	−60	22.7	9.3 ✓
105	−60°	1424	9	22.0	−60	30.4	8.8 ✓
106	−60°	1425	9	22.2	−60	14.7	9.3 ✓
107	−60°	1429	9	23.3	−60	8.1	8.9 ✓
108	−60°	1432	9	23.5	−60	23.7	9.6 ✓

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1913phae.proj.2152c

Thursday, May 15, 1913.
B40096 short disps.

No.	Int.	Class	Remarks.
109	1	F5	
110	2	Go	
111	2	A	
112	1	F5	
113	2	Ao	
114	2	Go	
115	2	Ao	
116	1	A2	
117	2	F3g	
118	1	A	
119	1	F0	
120	2	Ao	
121	2	F0	
122	1	K	0, 6, 10.
Time: 16.47 123	1	Ma	
124.			
125			
126			
124	1	G5	
125	1	G5	
126	2	G0	Another disp. in fold. Class A.
127	3	G0	
128	5	A3	

emh. 134, 128

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1912phao.proj.21526

109	-60°	1428	9	23.2	-60	15.5	9.7	✓
110	-60°	1443	9	25.8	-60	29.2	9.4	✓
111	-60°	1445	9	26.0	-60	18.4	9.4	✓
112	-60°	1435	9	23.7	-60	57.1 / ~~56.3~~	9.6	✓
113	-61°	1266	9	21.4	-61	18.2	8.7	✓
114	-60°	1453	9	28.0	-60	48.3	9.2	✓
115	-60°	1450	9	27.8	-60	41.7	9.2	✓
116	-60°	1461	9	29.1	-60	46.8	9.3	✓
117	-61°	1293	9	30.1	-61	25.4	9.0	✓
118	-61°	1297	9	31.3	-61	43.2	9.4	✓
119	-62°	1246	9	27.0	-62	9.4	9.5	✓
120	-62°	1245	9	27.0	-62	24.2	9.1	✓
121	-60°	1474	9	34.2	-60	39.4	9.4	✓
122	Pub. 1900 prov.		9	13.5	-65	48		✓
123	Pub. 1900 prov.		9	30.2	-66	10		✓

Identified by J. C. M. July 30, 1913.
Checked by AmC. Aug. 23, 1913
Cards made out by M.C.W and AmC.
Cards checked by AmC

✓	124	-63°	1097	9	5.4	-63	32	9.1	} 464 on B21452
✓	125	-63	1098	9	5.5	-63	32	9.1	
✓	126	-65°	1107	9	23.5	-65	33	9.5	39 on B40074
✓	127	-60°	1266	8	55.0	-60	#7	8.6	3 " B38748
✓	128	-62	1141	8	55.0	-62	25	8.6	7 " B13026

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1913phae.proj.2152C

Thursday, May 15, 1913.

Time: 11.14 B40105 short disp.

No.	Int.	Class	Remarks.
1	3	Ao	
2	3	Ko	
3	1	K2	Partly superposed on 4.
4	3	B8	
5	2	Ao	
6	3	Bg	
7	1	K5	
8	2	A2	The preceding of two.
9	5	Bg	
10	2	Ao	
11	8	Bg	
12	6	Go	
13	3	A5	
14	8	Ao	
15	2	Bg	
16	1	K2	
17	1	P	y=10. B=8. 4959=15. 5007=50. S=5. E=7. S=8.
18	1	Ko	
19	2	Ko	
20	2	Ao	
21	2	B	Lines too indistinct to subdivide. Perhaps B2.
22	2	G5	
23	2	Ao	
24	7	Ko	
25	3	Ko	
26	3	Bg	
27	1	Ko	

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1913phae.proj.2152c

1	-59°	1436	9	34.1	-59	49.0	8.8	∧ ✓
2	-59°	1433	9	33.7	-59	35.3	8.9	∧ ✓
3	-59°	1427	9	32.8	-59	29.8	9.7	∧ ✓
4	-59°	1428	9	32.8	-59	25.5	8.6	∧ ✓
5	-59°	1429	9	33.0	-59	24.4	9.1	∧ ✓
6	-59°	1431	9	33.1	-59	8.1	8.9	∧ ✓
7	-58°	1589	9	33.5	-58	59.8	9.8	∧ ✓
8	-58°	1588	9	33.5	-58	42.4	9.1	∧ ✓
9	-58°	1589 90	9	33.6	-58	28.3	8.3	∧ ✓
10	-58°	1594	9	34.4	-58	23.8	9.1	∧ ✓ Confirmed by a star in same R.A. & North.
11	-58°	1599	9	34.8	-58	36.8	7.7	∧ ✓
12	-58°	1593	9	34.3	-58	50.3	8.0	∧ ✓
13	-58°	1596	9	34.5	-58	53.6	8.8	∧ ✓
14	-59°	1434	9	33.9	-59	19.6	7.5	∧ ✓
15	-59°	1441	9	34.7	-59	29.3	9.2	∧ ✓
16	-59°	1443	9	35.0	-59	42.6	9.5	∧ ✓
	Published	1900 pos.	9	35.9	-59	38		
17	~~-59°~~	~~1444~~	~~9~~	~~35.1~~	~~-59~~	~~35.1~~	~~9.8~~	∧ ✓
18	Approx.	1875	9	35.2	-59	20 19		∧ ✓
19	-59°	1446	9	35.6	-59	4.8	9.2	∧ ✓
20	-58°	1601	9	35.5	-58	51.0	9.3	∧ ✓
	-58°	1602	9	35.8	-58	44.9	9.2	∧ ✓
21	~~-60°~~	~~1608~~	~~9~~	~~59.0~~	~~-60~~	~~3.1~~	~~9.1~~	~~Pair of 3 stars.~~
	-58°	1603	9	35.8	-58	32.6	9.4	∧ ✓
22	~~-60~~	~~1610~~	~~9~~	~~59.1~~	~~-60~~	~~8.1~~	~~8.9~~	
23	-58°	1605	9	36.1	-58	16.0	9.2	∧ ✓
	-58°	1611	9	37.2	-58	28.2	8.2	∧
24	~~-60~~	~~1636~~	~~9~~	~~1.1~~	~~-60~~	~~6.1~~	~~9.0~~	✓
	-58°	1612	9	37.4	-58	34.1	8.8	∧
25	~~-60~~	~~1650~~	~~10~~	~~1.9~~	~~-60~~	~~21.9~~	~~8.9~~	✓
	-58°	1613	9	37.4	-58	38.6	8.6	∧
26	~~-60°~~	~~1668~~	~~10~~	~~2.7~~	~~-60~~	~~28.5~~	~~9.1~~	✓
	58	1	9	37.5	58	50	.4	
27	-60°	1654	~~10~~	~~2.0~~	~~-60~~	+6.0	9.0	∧ ✓

Cards made out

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1913phae.proj.2152C

Thursday, May 15, 1913.
B40105 short disp.

No.	Int.	Class	Remarks
28	1	Q2	
29	6	B8	
30	2	N0	
31	1	N0	
32	1	N0	
33	5	Q2	
34	4	B9	
35	3	F5	
36	5	Q0	
37	1	N0	
38	8	B8	
39	1	B9	
40	1	Nva	
41	7	B9	
42	4	B8	
43	1	Q0	
44	3	B9	
45	2	Q2	
46	6	G5	
47	5	B8	
48	4	G0	
49	3	B9	
50	1	B8	
51	2	Q0	
52	3	G5	
53	7	N0	
54	1	B9	

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28	-58°	1608	9	36.3	-58	59.1	9.3	1 ✓
29	-59°	1453	9	38.5	-59	0.4	8.0	1 ✓
30	-58°	1619	9	38.8	-58	58.4	9.0	1 ✓
31	-59°	1450	9	38.2	-59	21.9	9.8	1 ✓
32	-59°	1451	9	38.4	-59	15.9	9.8	1 ✓
33	-59°	1456	9	38.9	-59	31.0	8.6	1 ✓
34	-59°	1454	9	38.7	-59	43.0	8.7	1 ✓
35	-59°	1452	9	38.5	-59	59.0	8.9	1 ✓
36	-59°	1457	9	39.1	-59	44.6	8.5	1 ✓
37	-59°	1462	9	39.4	-59	33.7	9.2	1 ✓
38	-59°	1464	9	39.6	-59	27.3	7.4	1 ✓
39	-59°	1466	9	40.2	-59	21.9	9.2	1 ✓
40	-59°	1469	9	40.5	-59	26.9	9.8	1 ✓
41	-59°	1468	9	40.4	-59	17.8	7.8	1 ✓
42	-59°	1465	9	40.0	-59	51.3	8.2	1 ✓
43	-59°	1472	9	41.1	-59	33.5	9.4	1 ✓
44	-59°	1473	9	41.1	-59	25.3	8.4	1 ✓
45	-59°	1474	9	41.2	-59	11.8	9.1	1 ✓
46	-58°	1635	9	41.4	-58	53.9	8.1	1 ✓
47	-58°	1638	9	41.9	-58	53.5	8.2	1 ✓
48	-58°	1626	9	40.0	-58	36.7	8.6	1 ✓
49	-58°	1629	9	40.5	-58	36.2	8.6	1 ✓
50	-58°	1628	9	40.4	-58	50.3	9.3	1 ✓
51	-58°	1636	9	41.6	-58	9.9	8.8	1 ✓
52	-58°	1641	9	42.2	-58	25.1	8.8	1 ✓
53	-58°	1644	9	42.2	-58	28.1	8.2	1 ✓
54	-58°	1648	9	43.0	-58	53.9	9.0	1 ✓

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Thursday, May 15, 1913.
B 40105 short disp.

Two	Int.	Class	Remarks
55	1	Ao	
56	3	Ao	
57	2	Ao	
58	1	A2	
59	4	K0	
60	4	Ao	
61	1	Ao	
62	1	F0	
63	2	B9	
64	2	Ao	
65	4	G5	
66	2	Ao	
67	3	F0	
68	3	A2	
69	1	K5	
70	4	B8	
71	2	G5	
72	2	B9	
73	2	B9	
74	2	Ao	
75	2	Ao	
76	2	A2	
77	1	K0	
78	1	B9	
79	1	Ao	
80	3	B5	
81	1	K5	

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1913phae.proj.2152C

55	-59°	1476	9	42.7	-59	19.1	9.2	↑ ✓
56	-59°	1480	9	43.1	-59	19.3	8.7	↑ ✓
57	-59°	1477	9	42.7	-59	35.7	9.3	↑ ✓
58	-60°	1496	9	40.9	-60	17.4	9.6	↑ ✓
59	-60°	1498	9	43.6	-60	32.1	9.1	↑ ✓
60	-60°	1503	9	44.5	-60	0.1	9.1	↑ ✓
61	-60°	1504	9	44.6	-60	9.4	9.4	↑ ✓
62	-59°	1483	9	43.7	-59	32.7	9.5	↑ ✓
63	-59°	1482	9	43.7	-59	24.7	9.1	↑ ✓
64	-59°	1481	9	43.6	-59	15.9	9.3	↑ ✓
65	-58°	1668	9	46.4	-58	52.9	8.6	↑ ✓
66	-59°	1511	9	47.1	-59	1.8	8.6	↑ ✓
67	-59°	1512	9	47.2	-59	15.0	9.0	↑ ✓
68	-59°	1513	9	47.4	-59	11.9	9.0	↑ ✓
69	-59°	1518[4]	9	47.4	-59	13.9	9.6	↑ ✓
70	-59°	1517	9	48.2	-59	21.1	8.5	↑ ✓
71	-59°	1505	9	46.4	-59	25.0	9.0	↑ ✓
72	-59°	1506	9	46.4	-59	39.1	9.1	↑ ✓
73	-59°	1509	9	46.6	-59	49.8[5]	8.9 ~~9.6~~	↑ ✓
74	-59°	1519	9	48.8	-59	38.7	9.2	↑ ✓
75	-59°	1521	9	49.4	-59	33.6	9.3	↑ ✓
76	-59°	1520	9	49.3	-59	29.4	9.4	↑ ✓
77	-59°	1523	9	50.0	-59	10.9	9.6	↑ ✓
78	-59°	1524	9	50.0	-59	16.0	9.2	↑ ✓
79	-59°	1525	9	50.4	-59	15.0	9.8	↑ ✓
80	-59°	1528	9	51.1	-59	14.2	8.4	↑ ✓
81	-58°	1698	9	50.8	-58	53.8	9.8	↑ ✓

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1913phae.proj.2152C

Thursday, May 15, 1913.
B40.105 short disp.

	No.	Int.	Class	Remark:
	82	4	B5	
	83	5	F0	
	84	1	F2	
	85	1	A0	
	86	1	A0	The preceding of two.
	87	2	B9	
	88	1	G0	
	89	3	A0	
	90	1	Ma	
	91	4	K5	
	92	6	F2	
	93	2	B8	
	94	2	K0	
	95	2	F0	
	96	5	A2	
	97	1	K0	
	98	2	B9	
	99	2	K0	
11.31	100	4	Oc	Hydrogen lines bright. Also 4640 + 4688.
11.52	101	1	Ma	
	102	10	A	Burned out
	103	2	K0	
	104	2	Ma	
	105	4	F8	
	106	10	A	Burned out,
	107	3	G0	
	108	1	A0	

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1913phae.proj.2152c

82	-58°	1697	9	50.8	-58	40.6	8.6	↑ ↓
83	-58°	1699	9	50.9	-58	27.6	8.4	↑ ↓
84	-58°	1694	9	50.6	-58	39.6	9.3	↑ ↓
85	-58°	1690	9	50.2	-58	47.1	9.6	↑ ↓
86	-58°	1686	9	49.6	-58	41.8	9.4	↑ ↓
87	-58°	1683	9	49.1	-58	46.4	9.2	↑ ↓
88	-58°	1680	9	48.4	-58	45.7	9.3	↑ ↓
89	-58°	1678	9	47.7	-58	41.8	8.4	↑ ↓
90	-58°	1676	9	47.4	-58	33.3	9.4	↑ ↓
91	-58°	1679	9	48.2	-58	15.2	8.8	↑ ↓
92	-58°	1684	9	49.3	-58	3.8	8.5	↑ ↓
93	-58°	1693	9	50.5	-58	1.2	8.5	↑ ↓
94	-58°	1695	9	50.7	-58	9.1	9.2	↑ ↓
95	-58°	1700	9	50.9	-58	6.3	8.9	↑ ↓
96	-57°	2424	9	51.0	-57	52.6	8.6	↑ ↓
97	-57°	2422	9	50.9	-57	44.4	9.5	↑ ↓
98	-57°	2431	9	51.3	-57	24.5	9.2	↑ ↓
99	-57°	2434	9	51.4	-57	21.5	9.2	↑ ↓
100	-57°	2420	9	50.8	-57	8.1	8.2	↑ ↓
101	-57°	2426	9	51.0	-57	20.1	10.2	↑ ↓
	~~Approx.~~	~~1875~~		~~50.9~~	~~-57~~			
102	-56°	2646	9	51.0	-56	47.5	6.9	↑ ↓
103	-56°	2656	9	51.3	-56	50.2	9.2	↑ ↓
104	-56°	2668	9	51.9	-56	56.5	9.6	↑ ↓
105	-56°	2673	9	52.0	-56	54.0	8.7	↑ ↓
106	-57°	2451	9	52.6	-57	3.6	7.9	↑ ↓
107	-56°	2687	9	53.1	-56	58.9	9.2	↑ ↓
108	-57°	2457	9	52.9	-57	9.0	9.6	↑ ↓

cards made out

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1913phae.proj.2152C

Thursday May 15, 1913.

1340 105 short disp.

No.	Int.	Class	Remark.
109	3	B9	
110	1	?	
111	6	A0	
112	5	B8	
113	9	B9	
114	3	A0	
115	1	K5	
116	4	F0	
117	2	K0	
118	1	F0	
119	3	A0	
120	2	A0	
121	2	B9	
122	1	A0	
123	3	A2	
124	1	F0	
125	6	B9	
126	4	B9	
127	2	K0	
128	1	A0	
129	2	B8	
130	1	B8	
131	1	K5	
132	1	A5	
103	4	F0	
134	6	B8	
135	6	Wk	

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1913phae.proj.2152c

109	-57°	2447	9	52.5	-57	29.7	9.4	∧ ✓
110	-57°	2450	9	52.6	-57	23.3	9.7	∧ ✓
111	-57°	2454	9	52.8	-57	55.0	9.0	∧ ✓
112	-58°	1703	9	51.4	-58	9.9	8.9	∧ ✓ -58° 1704 9.6 superposed
113	-58°	1707	9	51.5	-58	9.0	7.9	∧ ✓
114	-58°	1713	9	52.5	-58	19.9	8.6	∧ ✓
115	-58°	1715	9	52.8	-58	21.0	9.6	∧ ✓
116	-58°	1714	9	52.7	-58	12.9	8.5	∧ ✓
117	-58°	1719	9	53.1	-58	28.9	9.6	∧ ✓
118	-58°	1702	9	51.3	-58	55.9	9.7	∧ ✓
119	-59°	1532	9	51.5	-59	20.8	9.1	∧ ✓
120	-59°	1530	9	51.3	-59	37.1	9.3	∧ ✓
121	-59°	1533	9	51.6	-59	42.2	9.1	∧ ✓
122	-59°	1531	9	51.4	-59	33.0	9.6	∧ ✓
123	-59°	1536	9	52.5	-59	10.4	8.8	∧ ✓
124	-59°	1538	9	53.0	-59	4.1	9.4	∧ ✓
125	-59°	1551	9	53.7	-59	7.1	8.9	∧ ✓
126	-59°	1545	9	53.3	-59	18.0	9.0	∧ ✓
127	-59°	1542	9	53.1	-59	26.3	9.2	∧ ✓
128	-59°	1540	9	53.1	-59	22.1	9.3	∧ ✓
129	-59°	1540 → 1557	9	53.7 → 54.0	-59	22.1 → 21.9	9.2	∧ ✓
130	-59°	1559	9	54.2	-59	4.7	9.4	∧ ✓
131	-58°	1748	9	54.5	-58	48.6	9.8	∧ ✓
132	-58°	1732	9	53.7	-58	46.2	9.3	∧ ✓
133	-58°	1737	9	53.9	-58	38.9	9.2	∧ ✓
134	-58°	1738	9	53.9	-58	29.4	8.8	∧ ✓
135	-58°	1739	9	54.0	-58	15.9	8.4	∧ ✓

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1913phae.proj.2152c

Thursday, May 15, 1913

B40105 short disks

No	Int.	Class	Remarks
136	3	B9	
137	4	B8	
138	4	B9	
139	2	F0	
140	3	F2	
141	4	G0	
142	2	F0	
143	1	B9	
144	5	F0	
145	4	B8	
146	2	F0	
147	4	G0	
148	2	A0	
149	1	G5	
150	3	B9	
151	2	A2	
152	6	F0	
153	1	G5	
154	5	B9	
155	2	A0	
156	1 + A	K0	
157	2	B8	
158	4	F0	
159	1	K5	
160	A	A0	
161	7	A0	
162	2	F0	

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136	−57°	2487	9	54.3	−57	55.6	9.2	↑ ✓
137	−58°	1750	9	54.7	−58	9.7	8.8	↑ ✓
138	−58°	1763	9	55.6	−58	8.1	8.8	↑ ✓
139	−58°	1768	9	55.8	−58	3.4	9.2	↑ ✓
140	−58°	1781	9	56.3	−58	10.7	8.8	↑ ✓
141	−58°	1779	9	56.2	−58	24.4	8.4	↑ ✓
142	−58°	1773	9	56.1	−58	31.0	9.1	↑ ✓
143	−58°	1760	9	55.3	−58	32.9	9.6	↑ ✓
144	−58°	1793	9	56.8	−58	8.2	8.9	↑ ✓
145	−58°	1799	9	57.2	−58	22.9	8.6	↑ ✓
146	−58°	1811	9	57.7	−58	0.7	9.2	↑ ✓
147	−58°	1814	9	57.8	−58	3.0	9.2	↑ ✓
148	−58°	1816	9	58.1	−58	4.3	9.2	↑ ✓
149	−58°	1820	9	58.2	−58	6.0	9.5	↑ ✓
150	−57°	2471	9	53.6	−57	22.7	9.2	↑ ✓
151	−57°	2473	9	53.7	−57	9.9	9.4	↑ ✓
152	−56°	2703	9	53.7	−56	48.6	8.5	↑ ✓
153	−56°	2712	9	54.1	−56	54.1	9.4	↑ ✓
154	−57°	2486	9	54.3	−57	7.7	8.6	↑ ✓
155	−56°	2719	9	54.5	−56	58.9	9.6	↑ ✓
156	−56°	2723	9	55.1	−56	51.1	9.8	↑ ✓
157	−56°	2734	9	55.5	−56	55.0	9.4	↑ ✓
158	−57°	2512	9	55.1	−57	17.6	8.8	↑ ✓
159	−57°	2519	9	55.5	−57	15.2	9.8	↑ ✓
160	−57°	2532	9	56.1	−57	12.3	9.7	↑ ✓
161	−57°	2534	9	56.2	−57	27.3	7.8	↑ ✓
162	−57°	2508	9	55.5	−57	30.7	9.0	↑ ✓

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1913phae.proj.2152C

Thursday, May 15, 1913.

B40105 short ends.

No.	Int	Class	Remarks.
163	3	A	Region of line R superposed on 164.
164	10	Bg	
165	1	Bg	
166	1	F0	
167	4	Bg	
168	2	g0	
169	6	B8	
170	10	K0	
171	1	A2	
172	1	g5	
173	2	B	Almost cont.
174	4	A0	
175	2	Bg	
176	1	A0	
177	2	K0	
178	2	A2	
179	1	F5	
180	6	F5	
181	4	B8	
182	3	A0	
183	4	g0	
184	1	B	Almost cont.
185	2	F0	
186	5	A0	
187	4	A0	
188	2	A3	
189	3	A0	

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1913phae.proj.2152c

163	-57°	2508	9	55.1	-57	38.9	9.0	∧ ✓
164	-57°	2510	9	55.1	-57	31.8	7.7	∧ ✓
165	-57°	2488	9	54.3	-57	43.1	9.6	∧ ✓
166	-57°	2479	9	54.2	-57	40.4	9.7	∧ ✓
167	-57°	2540	9	56.7	-57	30.7	8.6	∧ ✓
168	-57°	2547	9	57.3	-57	29.8	9.4	∧ ✓
169	-57°	2558	9	58.0	-57	6.1	8.3	∧ ✓
170	-56°	2770	9	57.7	-56	44.8	7.8	∧ ✓
171	-56°	2783	9	58.4	-56	55.7	9.4	∧ ✓
172	-57°	2574	9	58.6	-57	4.9	9.6	∧ ✓
173	-57°	2580	9	58.7	-57	9.5	8.8	∧ ✓
174	-56°	2798	9	59.3	-56	57.9	8.8	∧ ✓
175	-57°	2601	9	59.7	-57	10.2	9.2	∧ ✓
176	-57°	2606	10 ✗	0.0	-57	6.5	9.4	∧ ✓
177	-56°	2809	9	59.9	-56	44.0	9.2	∧ ✓
178	-57°	2557	9	58.0	-57	46.6	9.4	∧ ✓
179	-57°	2571	9	58.5	-57	51.5	9.4	∧ ✓
180	-58°	1839	9	58.9	-58	0.7	8.4	∧ ✓
181	-58°	1832	9	58.8	-58	13.5	8.5	∧ ✓
182	-58°	1848	9	59.2	-58	15.9	8.8	∧ ✓
183	-57°	2584	9	59.0	-57	29.7	9.0	∧ ✓
184	-57°	2596	9	59.4	-57	29.6	9.2	∧ ✓
185	-57°	2616	10	0.7	-57	37.8	9.4	∧ ✓
186	-57°	2643	10	1.8	-57	17.4	8.0	∧ ✓
187	-57°	2633	10	1.5	-57	3.1	8.8	∧ ✓
188	-56°	2846	10 ✗	1.9	-56	41.0	9.4	∧ ✓
189	-56°	2789	9	58.9	-56	15.6	9.0	∧ ✓

cards made out.

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1913phae.proj.2152C

Thursday, May 15, 1913.

B40105 short disp.

No.	Int.	Class	Remarks
190	2	Ly5	
191	3	H0	
192	2	A3	
193	2	A0	
194	9	K0	
195	2	B9	
196	5	L0	
197	3	K0	
198	2	A2	
199	2	A3	
200	5	A2	
12.06 May 15.1913 10.45			
201	3	A0	
202	2	A2	
203	3	A0	
204	8	B8	
205	4	A2	
206	1	K	
207	1	K0	
208	4	B8	
209	2	B9	
210	2	A0	
211	10+	A	Burned out.
212	2	A3	
213	4	A0	
214	3	B9	
215	2	K0	
216	1	K5	

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1913phae.proj.2152c

190	-56°	2792	9	59.1	-56	35.9	9.4	↑ ✓
191	-56°	2764	9	57.2	-56	34.3	9.0	↑ ✓
192	-56°	2753	9	56.8	-56	29.8	9.4	↑ ✓
193	-56°	2756	9	56.9	-56	20.6	9.2	↑ ✓
194	-56°	2746	9	56.3	-56	20.7	7.8	↑ ✓
195	-56°	2740	9	56.0	-56	38.9	9.2	↑ ✓
196	-56°	2758	9	56.9	-56	4.0	8.6	↑ ✓
197	-56°	2717	9	54.5	-56	4.7	9.2	↑ ✓
198	-55°	2751	9	54.8	-55	52.7	9.0	↑ ✓
199	-55°	2756	9	54.9	-55	43.4	8.6	↑ ✓
200	-55°	2723	9	53.6	-55	56.4	8.0	↑ ✓
201	-58°	1591	9	33.7	-58	7.2	9.0	↑ ✓
202	-58°	1592	9	34.1	-58	8.0	9.0	↑ ✓
203	-57°	2197	9	34.5	-57	59.0	9.0	↑ ✓
204	-57°	2208	9	35.3	-57	42.9	7.8	↑ ✓
205	-57°	2214	9	35.9	-57	21.2	8.6	↑ ✓
	-57°	2212	9	35.8	-57	45	10.2	
206	~~Approx.~~	1875	9	35.8	-57	46		↑ ✓
207	-57°	2219	9	36.3	-57	50.6	10.0	↑ ✓
208	-57°	2226	9	36.7	-57	32.4	8.6	↑ ✓
209	-57°	2227	9	36.8	-57	50.9	9.0	↑ ✓
210	-57°	2225	9	36.7	-57	31.1	9.8	↑ ✓
211	-57°	2228	9	36.9	-57	24.8	6.0	↑ ✓
212	-57°	2229	9	37.0	-57	28.9	9.2	↑ ✓
213	-57°	2237	9	37.8	-57	25.9	8.8	↑ ✓
214	-56°	2441	9	37.5	-56	57.2	9.0	↑ ✓
215	-56°	2452	9	38.0	-56	48.4	9.5	↑ ✓
216	-57°	2244	9	38.5	-57	0.0	10.0	↑ ✓

cards made out

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1913phae.proj.2152C

Friday, May 16, 1913.

T340105 short disp

No.	Mut.	Class	Remark:
217	6	A0	Another star superposed at south.
218	4	A3	
219	6	F5	
220	1	A0	
221	1	K0	
222	3	K3	
223	5	K8	
224	4	K2	
225	3	F2	
226	2	K8	
227	7	K8	The preceding of two.
228	1	F0	
229	3	K3	
230	1	F2	
231	1	G5	
232	2	A2	
233	7	A2	
234	1	K8	
235	1	A0	
236	7	G5	
237	1	F0	
238	1	A0	
239	2	A0	The s. f. of two.
240	2	M0	
241	5	G5	
242	1	A0	
243	2	A3	

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1913phae.proj.2152C

217	-56°	2463	9	39.1	-56	59.8	8.6	1 ✓
218	-56°	2467	9	39.5	-56	53.3	9.0	1 ✓
219	-57°	2273	9	40.0	-57	3.9	8.4	1 ✓
220	-56°	2477	9	40.2	-56	48.0	9.8	1 ✓
221	-56°	2479	9	40.3	-56	53.0	9.5	1 ✓
222	-57°	2282	9	40.3	-57	4.4	9.0	1 ✓
223	-57°	2277	9	40.2	-57	21.3	8.4	1 ✓
224	-57°	2274	9	40.0	-57	35.1	9.0	1 ✓
225	-57°	2283	9	40.4	-57	27.8	8.9	1 ✓
226	-57°	2293	9	41.0	-57	24.0	9.0	1 ✓
227	-57°	2254	9	38.8	-57	32.0	8.2	1 ✓
228	-57°	2233	9	37.5	-57	57.4	9.4	1 ✓
229	-58°	1623	9	39.0	-58	0.9	8.9	1 ✓
230	-57°	2259	9	39.1	-57	50.9	9.6	1 ✓
231	-57°	2268	9	39.7	-57	51.5	9.8	1 ✓
232	-58°	1625	9	39.8	-58	4.9	8.8	1 ✓
233	-57°	2302	9	41.8	-57	45.2	8.2	1 ✓
234	-58°	1615	9	38.0	-58	34.5	9.1	1 ✓
235	-58°	1622	9	39.0	-58	38.8	9.3	1 ✓
236	-56°	2491	9	40.9	-56	59.7	7.9	1 ✓
237	-57°	2294	9	41.0	-57	4.8	9.6	1 ✓
238	-57°	2311	9	42.8	-57	10.4	9.5	1 ✓
239	-56°	2520	9	42.7	-56	57.9	9.4	1 ✓
240	-56°	2531	9	43.2	-56	45.9	9.2	1 ✓
241	-56°	2549	9	44.6	-56	29.8	8.6	1 ✓
242	-56°	2554	9	45.1	-56	23.5	9.5	1 ✓
243	-56°	2555	9	45.3	-56	15.5	9.6	1 ✓

cards made out.

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1913phae.proj.2152C

Friday, May 16, 1913.

B40105 short disp.

No.	Int.	Class	Remarks
244	2	F2	
245	3	A0	
246	4	B9	
247	3	B8	
248	2	F0	
249	3	A2	
250	2	B9	
251	1	B9	
252	3	F0	
253	1	G0	
254	2	F5	
255	3	B3	
256	4	B9	
257	4	A0	
258	3	F0	
259	2	A0	
260	4	A2	
261	4	B8	
262	7	B5	
263	6	B8	
264	2	G0	
265	1	F0	
266	2	G5	
267	3	A0	
268	4	F0	
269	2	F0	Another star superposed at south.
270	1	A	

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1913phae.proj.2152c

244	-56°	2565	9	45.9	-56	25.3	9.5	1 ✓
245	-56°	2592	9	47.6	-56	27.3	9.2	1 ✓
246	-56°	2594	9	47.7	-56	32.1	8.7	1 ✓
247	-56°	2599	9	48.1	-56	24.3	9.0	1 ✓
248	-56°	2600	9	48.2	-56	3.8	9.6	1 ✓
249	-55°	2647	9	50.1	-55	46.7	9.0	1 ✓
250	-56°	2634	9	50.5	-56	0.9	9.2	1 ✓
251	-56°	2636	9	50.5	-56	0.6	9.5	1 ✓
252	-56°	2658	9	51.4	-56	20.6	9.0	1 ✓
253	-56°	2658 (64)	9	51.9	-56	~~20.6~~ 30.4	9.2	1 ✓
254	-56°	2644	9	50.8	-56	30.0	9.4	1 ✓
255	-56°	2635	9	50.5	-56	34.8	8.9	1 ✓
256	-57°	2409	9	49.8	-57	1.8	8.9	1 ✓
257	-57°	2410	9	49.9	-57	3.4	8.8	1 ✓
258	-56°	2608	9	49.1	-56	35.3	9.0	1 ✓
259	-56°	2607	9	49.0	-56	51.1	9.2	1 ✓
260	-56°	2569	9	46.2	-56	57.9	8.6	1 ✓
261	-57°	2362	9	45.8	-57	19.3	8.6	1 ✓
262	-57°	2368	9	46.2	-57	27.7	7.9	1 ✓
263	-57°	2367	9	46.2	-57	37.9	7.8	1 ✓
264	-57°	2379	9	47.0	-57	32.3	9.0	1 ✓
265	-57°	2380	9	47.1	-57	22.9	9.4	1 ✓
266	-57°	2382	9	47.2	-57	25.9	9.2	1 ✓
267	-57°	2396	9	48.3	-57	39.8	9.0	1 ✓
268	-58°	1660	9	45.2	-58	11.6	8.5	1 ✓
269	-58°	1658	9	44.6	-58	5.9	8.9	1 ✓
270	-58°	1650	9	44.2	-58	17.4	9.5	1 ✓

cards made out

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1913phae.proj.2152C

Friday, May 16, 1913.
T340105 short disp.

No.	Int.	Class	Remark.
271	2	Ao	
272	2	Ko	
273	2	A2	
274	6	A2	
275	7	B8	
276	1	F8	
277	1	Ao	
278	X3	Ma	
279	4	Go	
280	3	Fo	
281	2	B9	
282	1	A	
283	2	Ko	
284	2	G5	
285	10+	A	Burned out.
286	4	G5	
287	3	B8	
288	1	A2	
289	2	K2	
290	8	B8	
291	1	G5	
292	2	Ao	
293	2	Ao	
294	1	K2	
295	10	G	Burned out
296	2	Ko	
297	1	A2	

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1913phae..proj..2152C

271	-58°	1651	9	44.3	-58	4.9	9.2	1✓
272	-57°	2358	9	45.5	-57	28.2	9.2	1✓
273	-57°	2346	9	44.6	-57	31.1	9.4	1✓
274	-57°	2334	9	44.0	-57	36.2	8.6	1✓
275	-57°	2322/3	9	43.6/7	-57	36.5 ~~36.0~~	8.0 ~~9.0~~	1✓ -57° 2323 superposed
276	-57°	2313	9	42.9	-57	55.9	9.5	1✓
277	-57°	2314	9	43.0	-57	46.0	9.6	1✓
278	-57°	2340	9	44.4	-57	4.7	9.2	1✓
279	-57°	2330	9	43.9	-57	4.8	9.0	1✓
280	-56°	2540	9	44.0	-56	52.5	9.2	1✓
281	-56°	2557	9	45.3	-56	59.9	9.2	1✓
282	-56°	2562	9	45.6	-56	57.9	9.5	1✓
283	-56°	2509	9	42.0	-56	36.1	9.4	1✓
284	-56°	2507	9	42.0	-56	23.0	9.2	1✓
285	-56°	2499	9	41.7	-56	36.6	6.9	1✓
286	-56°	2502	9	41.7	-56	25.5	8.6	1✓
287	-56°	2498	9	41.6	-56	9.6	8.5	1✓
288	-56°	2512	9	42.3	-56	11.9	9.6	1✓
289	-56°	2474	9	40.0	-56	16.4	9.4	1✓
290	-56°	2470	9	39.5	-56	22.8	7.8	1✓
291	-56°	2465	9	39.3	-56	15.3	9.5	1✓
292	-56°	2461	9	38.9	-56	2.2	9.2	1✓
293	-55°	2457	9	39.0	-55	44.7	9.0	1✓
294	-56°	2443	9	37.6	-56	28.0	9.8	1✓
295	-56°	2435	9	37.1	-56	41.4	7.5	1✓
296	-55°6	2430	9	36.8	-56	33.2	9.4	1✓
297	-56°	2434	9	37.1	-56	26.7	9.2	1✓

cards made out

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1913phae.proj.2152C

Friday, May 16, 1913

B40105 short disp

	No.	Int.	Class	Remark:
	298	2	K2	
	299	3	A0	
11.03	300	4	B9	
12.23	301	2	K0	
	302	9	A0	Austin star superposed at south.
	303	1	K0	
	304	2	A0	
	305	1	A0	
	306	3	B9	
	307	1	K2	
	308	2	K5	
	309	4	G5	
	310	4	K0	
	311	2	A0	
	312	1	G0	
	313	1	A2	
	314	7	A0	
	315	3	A0	
	316	2	A2	
	317	1	K5	
	318	2	F8	
	3198		G5	
	320	2	A0	
	321	2	K2	
	322	3	A0	
	323	4	A0	
	324	7	A2	

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1913phae.proj.2152c

298	-56°	2429	9	36.8	-56	16.8	9.4	∧ ✓
299	-56°	2416	9	36.0	-56	42.2	9.0	∧ ✓
300	-56°	2415	9	35.9	-56	44.2	8.4	∧ ✓
301	-56°	2407	9	35.5	-56	57.4	9.0	∧ ✓
302	-56°	2393	9	34.6	-56	58.0	7.6	∧ ✓
303	-57°	2195	9	34.5	-57	18.5	9.6	∧ ✓
304	-57°	2170	9	33.4	-57	25.9	9.0	∧ ✓
305	-57°	2175	9	33.7	-57	12.2	9.0	∧ ✓
306	-57°	2161	9	32.6	-57	8.8	8.8	∧ ✓
307	-56°	2372	9	33.2	-56	51.1	9.8	∧ ✓
308	-56°	2388	9	34.2	-56	37.6	9.2	∧ ✓
309	-56°	2383	9	34.2	-56	23.8	8.6	∧ ✓
310	-56°	2382	9	34.1	-56	18.1	9.0	∧ ✓
311	-56°	2398	9	34.8	-56	14.5	8.7	∧ ✓
312	-56°	2399	9	34.9	-56	18.5	9.2	∧ ✓
313	-56°	2400	9	35.0	-56	17.8	9.4	∧ ✓
314	-55°	2393	9	35.5	-55	57.3	8.1	∧ ✓
315	-55°	2398	9	35.9	-55	57.1	8.9	∧ ✓
316	-56°	2422	9	36.5	-56	12.0	9.0	∧ ✓
317	-56°	2426	9	36.6	-56	10.2	9.6	∧ ✓
318	-55°	2455	9	38.8	-55	49.1	9.4	∧ ✓
319	-55°	2452	9	38.6	-55	15.7	7.9	∧ ✓
320	-55°	2440	9	37.9	-55	22.3	9.0	∧ ✓
321	-55°	2428	9	37.3	-55	30.1	9.4	∧ ✓
322	-55°	2431	9	37.4	-55	8.3	9.0	∧ ✓
323	-55°	2421	9	36.7	-55	1.7	8.9	∧ ✓
324	-55°	2401	9	36.1	-55	8.7	8.0	∧ ✓

cards make out

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1913phae.proj.2152C

Friday, May 16, 1913.
Σ40105 short disp.

No.	Int.	Class	Remark:
325	3	F0	
326	2	A0	
327	3	K0	
328	3	A2	
329	2	B9	
330	3	K2	
331	2	A2	
332	1	K0	
333	3	B5	
334	2	A0	
335	2	K5	
336	2	G0	
337	2	K0	
338	2	F5	
339	1	K0	
340	2	Ma	
341	3	K0	
342	4	B8	
343	2	F0	
344	1	A0	
345	1	K0	
346	1	G	
347	1	G5	
348	4	B8	Auwers star superposed at south
349	1	F0	
350	1	A	
351	4	F0	

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1913phae.proj.2152C

325	-55°	2376	9	34.4	-55	38.6	9.0
326	-55°	2373	9	34.2	-55	48.2	9.0
327	-55°	2370	9	34.1	-55	45.4	8.4
328	-55°	2367	9	34.0	-55	23.0	9.0
329	-56°	2354	9	32.4	-56	2.0	9.2
330	-56°	2365	9	32.9	-56	34.3	8.9
331	-56°	2356	9	32.6	-56	40.2	9.4
332	-56°	2340	9	31.3	-56	25.2	9.6
333	-56°	2319	9	29.9	-56	36.4	8.6
334	-56°	2313	9	29.7	-56	54.9	9.0
335	-57°	2112	9	28.8	-57	8.1	9.2
336	-57°	2106	9	28.3	-57	7.9	8.9
337	-56°	2293	9	28.6	-56	34.8	8.9
338	-56°	2262	9	27.0	-56	48.2	8.8
339	-56°	2252	9	26.3	-56	44.9	9.2
340	-56°	2212	9	24.2	-56	47.1	8.6
341	-55°	2317	9	30.8	-55	56.0	8.7
342	-55°	2704	9	52.8	-55	27.1	8.3
343	-55°	2706	9	52.8	-55	44.5	9.0
344	-55°	2682	9	52.0	-55	48.6	9.4
345	-56°	2716	9	54.5	-56	26.0	9.6
346	-56°	2726	9	55.2	-56	20.3	9.7
~~347~~	~~-56°~~	~~2730~~	~~9~~	~~55.3~~	~~-56~~	~~29.2~~ 13.3	~~9.0~~ 9.7
347	-56°	2738	9	55.3	-56	~~29.2~~	9.2
348	-56°	~~2729~~ 2730	9	~~55.3~~ 55.3	-56	~~33.2~~ 29.7	~~9.2~~ 9.0
349	-56°	2730 47	9	55.3 6	-56	6.8 ~~29.2~~	9.4
350	-55°	2791	9	56.7	-55	53.3	8.8
351	-56°	2875	10	3.2	-56	56.4	8.2

-56° 2729 2730 Sm perpend.

Cards made out

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1913phae.proj.2152C

Friday, May 16, 1913.
B4 0105 short disp.

No.	Int.	Class	Remarks
352	3	Ao	
353	2	Ao	
354	1	B	Lines too indistinct to subdivide. H/3 h.
355	3	Ao	
356	2	Ko	
357	1	Ao	
358	1	Ky5	
359	4	Ky5	
360	7	Ky0	
361	2	K5	
362	10	Ky0	
363	8	B9	
364	2	A5	
365	2	A5	
366	2	Ao	
367	3	Ky5	
368	2	B8	
369	1	K2	
370	5	B9	
371	4	B5	
372	6	B9	
373	3	A2	
374	2	K0	
375	3	B9	
376	7	B9	
377	5	B8	
378	2	B9	

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1913phae.proj.2152C

352	-57°	2708	10 9	4.2	-57	6.7	8.6	1 ✓
353	-57°	2602	9	59.8	-57	55.7	9.2	1 ✓
354	-58°	1865	10 9	0.3	-58	3.5	9.0	1 ✓
355	-58°	1871	10	0.6	-58	4.0	8.8	1 ✓
356	-58°	1878	10	0.9	-58	5.3	9.3	1 ✓
357	-57°	2631	10 9	1.4	-57	37.1	9.4	1 ✓
358	-57°	2651	10	2.0	-57	38.7	9.2	1 ✓
359	-57°	2686	10	3.3	-57	51.0	8.6	1 ✓
360	-57°	2693	10	3.5	-57	45.7	8.2	1 ✓
361	-57°	2701	10	3.9	-57	59.9	9.2	1 ✓
362	-57°	2703	10	4.0	-57	35.2	7.9	1 ✓
363	-57°	2724	10	4.8	-57	25.6	7.8	1 ✓
364	-58°	1960	10	6.0	-58	35.4	8.8	1 ✓
365	-58°	1937	10	4.5	-58	48.7	8.8	1 ✓
366	-58°	1933	10	4.2	-58	37.7	8.8	1 ✓
367	-58°	1921	10	3.2	-58	38.4	8.6	1 ✓
368	-58°	1918	10	3.0	-58	47.1	8.8	1 ✓
369	-58°	1896	10	1.7	-58	31.4	9.5	1 ✓
370	-58°	1864	10	0.2	-58	37.0	8.4	1 ✓
371	-58°	1860	10 9	0.0	-58	46.4	8.6	1 ✓
372	-58°	1856	9	59.8	-58	53.2	8.2	1 ✓
373	-58°	1831	9	58.8	-58	40.6	8.6	1 ✓ -58° 1830 magn. 9.8 superposed.
374	-58°	1796	9	56.9	-58	49.2	9.0	1 ✓
375	-59°	1663	9	57.4	-59	3.8	9.2	1 ✓
376	-59°	1638	9	57.1	-59	8.0	8.6	1 ✓
377	-59°	1616	9	56.6	-59	2.1	8.6	1 ✓
378	-58°	1778	9	56.2	-58	57.1	8.8	1 ✓

cards made out

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1913phae.proj.2152C

Friday, May 16, 1913.
B4010 5 short disp.

No.	Int.	Class	Remark:
379	2	A0	
380	3	F0	
381	3	A2	
382	8	B9	
383	3	A2	
384	3	F2	
385	1	A	
386	6	G5	
387	2	A0	
388	2	A	
389	4	F0	
June 12.4 May 19.1913	390	2	G5
" 11.25	391	9	F0
	392	3	F0
	393	3	B9
	394	2	K 0, 6, 10.
	395	4	G5
	396	3	B9
	397	6	B9
	398	7	B9
	399	1	F0
	400	5	K0
	401	6	A0
	402	4	F0
	403	5	B9
	404	2	A0
	405	7	B9

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1913phae.proj - 21526

379	-59°	1584	9	55.5	-59	7.9	9.2	∧ ✓
380	-59°	1575	9	55.1	-59	6.9	9.2	∧ ✓
381	-59°	1566	9	54.4	-59	18.1	9.4	∧ ✓
382	-59°	1565	9	54.4	-59	27.0	8.5	∧ ✓
383	-59°	1572	9	54.8	-59	29.5	9.0	∧ ✓
384	-59°	1574	9	55.0	-59	31.0	9.2	∧ ✓
385	-59°	1560	9	54.2	-59	59.2	9.4	∧ ✓
386	-60°	1548	9	54.1	-60	9.1	8.6	∧ ✓
387	-60°	1541	9	53.4	-60	26.9	9.0	∧ ✓
388	-60°	1579	9	56.6	-60	27.9	9.2	∧ ✓
389	-60°	1584	9	57.4	-60	22.9	8.8	∧ ✓
390	-60°	1589	9	58.0	-60	24.9	9.2	∧ ✓
391	-59°	1598	9	56.0	-59	53.9	8.2	∧ ✓
392	-59°	1595	9	56.0	-59	48.7	9.0	∧ ✓
393	-59°	1600	9	56.1	-59	44.1	9.2	∧ ✓
394	-59°	1591	9	55.9	-59	37.1	9.6	∧ ✓
395	-59°	1589	9	55.9	-59	35.0	9.2	∧ ✓
396	-59°	1596	9	56.0	-59	34.4	9.4	∧ ✓
397	-59°	1609	9	56.4	-59	23.9	8.7	∧ ✓
398	-59°	1614	9	56.5	-59	23.5	8.6	∧ ✓ -59° 1615 superposed.
399	-59°	1627	9	56.7	-59	34.4	9.4	∧ ✓
400	-59°	1632	9	56.9	-59	37.6	8.7	∧ ✓
401	-59°	1643	9	57.1	-59	43.5	8.4	∧ ✓ -59° 1642 magn. 8.5 superposed
402	Could not find. Probably same object as 400. A. J. C.							
403	-59°	1633	9	57.0	-59	22.2	8.7	∧ ✓
404	-59°	1667	9	57.5	-59	28.0	9.1	∧ ✓
405	-59°	1672	9	57.7	-59	30.7	8.1	∧ ✓

Cards made out

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1913phae.proj.2152C

Tuesday, May 19, 1913.
T340105 short disp.

No.	Int.	Class	Remark
406	6	B9	
407	4	B9	
408	4	A0 B9	
409	3	B9	
410	7	A0 B9	
411	3	F0	
412	10	A3	
413	10	F0	
414	4	B9	
415	1	F0	
416	3	A0	
417	3	A0	
418	2	A0	
419	2	A0	
420	2	A0	
421	3	A0	
422	4	A0	
423	4	A2	
424	3	F5	
425	4	A0	
426	2	G5	
427	2	B9	
428	3	F0	
429	1	K5	
430	5	B9	
431	1	F0	
432	3	A0	

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1913phae..proj..215zC

406	-59°	1683	9	57.9	-59	22.8	8.5	∧✓
407	-59°	1724	9	58.5	-59	16.9	8.8	∧✓
408	-59°	1740	9	58.8	-59	21.2	8.8	∧✓
409	-59°	1756	9	~~59.1~~ 58.8	-59	14.2	~~8.4~~ 9.0	∧✓
410	-59°	1756	9	59.2	-59	14.2	8.4	∧✓
411	-59°	1771	9	59.3	-59	20.6	8.9	∧✓
412	-59°	1752	9	59.0	-59	34.5	7.0	∧✓
413	-59°	1695	9	58.0	-59	49.1	6.8	∧✓
414	-59°	1671	9	57.6	-59	44.9	8.8	∧✓
415	-59°	1654	9	57.3	-59	51.0	9.5	∧✓
416	-59°	1653	9	57.3	-59	44.0	9.2	∧✓
417	-59°	1705	9	58.2	-59	33.5	9.0	∧✓
418	-59°	1727	9	58.6	-59	32.7	9.1	∧✓
419	-59°	1673	9	57.7	-59	14.9	9.1	∧✓
420	-59°	1737	9	58.7	-59	53.5	9.5	∧✓ -59° 1736 9 58.7 -59 52.9 mag 9.6 Superposed photo
421	-60°	1608	9	59.0	-60	3.1	9.1	∧✓ Cr. of 3 stars.
422	-60°	1610	9	59.1	-60	8.1	8.9	∧✓
423	-59°	1801	9	59.8	-59	59.2	8.8	∧✓
424	-60°	1636	10	1.1	-60	6.1	9.0	∧✓
425	-60°	1650	10	1.9	-60	21.9	8.9	∧✓
426	-60°	1668	10	2.7	-60	28.5	9.1	∧✓
427	-60°	1654	10	2.0	-60	16.0	9.0	∧✓
428	-59°	1854	10	1.7	-59	42.5	9.2	∧✓
429	-59°	1865	10	2.3	-59	41.8	9.6	∧✓
430	-59°	1855	10	1.7	-59	30.5	9.0	∧✓
431	-59°	1862	10	2.1	-59	21.7	9.3	∧✓
432	-59°	1861	10	2.0	-59	7.8	9.4	∧✓

Cards made out.

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1913phae.proj.2152c

Monday, May 19, 1913.
B40105 short disp

No.	Int.	Class	Remarks
433	3	F8	
434	1	Ma	
435	2	Ao	
436	2	Ao	
437	2	Ao	
438	4	Ao	
439	4	Bg	
440	2	Ao	
441	3	Bg	
442	2	Bg	
443	1	K0	
444	2	A2	
445	6	G5	
446	5	Ao	
447	3	Bg.	
448	3	K0	Marked on B 15209
449	3	A	" "
450	4	Ao	" "
451	2	Ao	
June 11 53	452	2	Ao

Several stars of this cluster marked on B15209

453 7 A5

Cmt. 134, 126

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1913phae.proj.2152c

433	-59°	1898	10	3.9	-59	17.1	9.4	∧ ✓
		1910	10	4.5	-59	16.5	9.6	
434	-59°	~~1902~~	~~10~~	4.1	-59	~~15.6~~	~~9.5~~	✓
435	-59°	1909	10	4.4	-59	9.9	9.0	∧ ✓
		1905	10	4.3	-59	38.5 ~~7.6~~	9.4 ~~7.5~~	
436	-59°	~~1907~~	~~10~~	~~4.4~~	~~-59~~	~~34.4~~	~~9.5~~	✓
437	-59°	1843	10	1.1	-59	37.5	9.1	∧ ✓
438	-59°	1842	10	1.1	-59	26.6	8.8	∧ ✓
439	-59°	1850	10	1.5	-59	17.9	8.8	∧ ✓
440	-59°	1853	10	1.6	-59	24.1	9.0	∧ ✓
441	-59°	1816	10	0.1	-59	16.5	8.6	∧ ✓ -59° 1815 mag 11. 9.7 superposed
442	-59°	1800	9	59.8	-59	15.0	8.9	∧ ✓
443	-59°	1818	10	0.1	-59	36.3	9.5	∧ ✓
444	-59°	1813	10	0.0	-59	39.6	9.2	∧ ✓
445	-59°	1791	9	59.6	-59	35.7	8.5	∧ ✓
446	-59°	1784	9	59.5	-59	36.3	8.8	∧ ✓
447	-59°	1768	9	59.2	-59	44.1	9.1	∧ ✓
448	-59°	1802	9	59.8	-59	26.9	9.2	∧ ✓
449	-59°	1806	~~9~~ 9	59.8	-59	31.1	9.1	∧ ✓
450	-59°	1809	9	59.9	-59	32.7	9.0	∧ ✓
451	-59°	1825	10	0.1	-59	32.0	9.2	∧ ✓ J.M.
452	-59°	1840	10	0.9	-59	49.8	9.3	∧ ✓

Identified by J. C. M. July 25, 1913

Checked Aug. 28. 1913. D. W.

Cards made out by E. R. B.

Cards checked by A. M. C.

✓ 453 -58 1606 9 36.2 -58 43 7.8 5 m B 3408 9

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1913phae.proj.2152C

Wednesday, May 21, 1913.

Time: 9.55

B 39 864 short disp. 9 47· -48.0

No.	Int.	Class	Remarks
1	4	A0	The northern of two.
2	1	K5	
3	2	A0	
4	1	F8	
5	3	K0	
6	7	A2	
7	1	A0	[The preceding of two.]
8	1	K0	
9	4	F0	
10	3	G5	
11	6	F8	
12	3	?	
13	35	B9	
14	1	A2	
15	1	A2	
16	8	A0	
17	3	G0	
18	2	A0	
19	1	A0	
20	1	A2	
21	5	F8	
22	4	F8	Nearly all superposed on 21.
23	2	F0	
24	2	K2	
25	8	B8	
26	4	F2	
27	2	B9	

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1913phae.proj.2152c

1	-50°	4440	9	40.1	-50	15.2	8.8	✓
2	-49°	4654	9	40.4	-49	54.7	8.7	✓
3	-50°	4456	9	40.6	-50	5.6	9.3	✓
4	-50°	4459	9	40.7	-50	10.2	9.1	✓
5	-50°	4481	9	41.5	-50	17.6	8.3	✓
6	-49°	4674	9	42.1	-49	59.9	7.5	✓
7	-50°	4488	9	41.9	-50	47.4	9.3	✓
8	-50°	4527	9	43.8	-50	22.8	8.5	✓
9	-50°	4532	9	44.2	-50	25.0	8.9	✓
10	-50°	4549	9	44.8	-50	4.6	8.0	✓
11	-50°	4563	9	45.5	-50	2.5	7.9	✓
12	~~-49°~~	~~4733~~	9	45.7	-49	51.1	7.8	✓
13	-49°	4734	9	45.8	-49	45.1	8.4	✓
14	-49°	4729	9	45.5	-49	46.9	9.9	✓
15	-49°	4715	9	44.7	-49	51.6	9.7	✓
16	-49°	4692	9	43.2	-49	21.8	7.1	✓
17	-49°	4673	9	42.0	-49	20.3	9.1	✓
18	-49°	4673 66	9	41.2 ~~42.0~~	-49	23.0 ~~20.3~~	10.0 ~~9.1~~	✓
19	~~-49~~ -48°	~~4659~~ 4988	9	~~41.0~~ 42.0	~~-49~~ -48	~~2.8~~ 55.9	~~9.5~~ 9.6	✓
20	-49°	4659	9	41.0	-49	2.8	9.5	✓
21	-48°	4963	9	40.5	-48	54.8	8.0	✓
22	-48°	4962	9	40.4	-48	54.9	8.0	✓
23	-48°	4954	9	39.7	-48	20.8	9.5	✓
24	-48°	4983	9	41.7	-48	32.9	8.4	✓
25	-47°	5182	9	40.0	-47	58.3	7.0	✓
26	-47°	5194	9	40.6	-47	56.2	8.3	✓
27	-47°	5193	9	40.6	-47	47.4	9.6	✓

cards made out

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1913phae.proj.2152C

Wednesday May 21, 1913.

B 39 864 short disp

No.	Int.	Class	Remark.
28	4	F0	
29	3	F8	
30	4	A0	
31	3	G5-	
32	1	G5	
33	5	A0	
34	2	A0	Partly superposed on 33.
35	3	F5-	
36	3	F2	
37	7	A0	
38	3	A0	
39	5	B0	
40	1	G5-	
41	3	A0	
42	1	K0	
43	1	B8	
44	5	A2	
45	1	B8	
46	2	A2	
47	2	B9	
48	2	F8	
49	3	A0	
50	1	K0	
51	2	A0	
52	1	K0	
53	1	K0	
54	2	F2	

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1913phae.proj.21520

28	-47°	5214	9	41.4	-47	2.5	8.8	✓
29	-47°	5231	9	42.3	-47	8.5	8.5	✓
30	-47°	5237	9	42.7	-47	1.5	8.7	✓
31	-46°	5524	9	43.5	-46	53.3	8.4	✓
32	-46°	5496	9	41.7	-46	47.7	9.7	✓
33	-46°	5485 (6)	9	41.2 (3)	-46	~~40.2~~ 36.4	9.4 (0)	✓
34	-46°	5483 (5)	9	41.8 (2)	-46	~~45.6~~ 40.2	9.4	✓
35	-46°	5488 (3)	9	~~40.8~~ 41.0	-46	~~49.2~~ 45.5	9.6 (1)	✓
36	-47°	5258	9	43.6	-47	17.3	9.3	✓
37	-47°	5267	9	44.2	-47	20.0	8.0	✓
38	-47°	5283	9	45.0	-47	28.0	9.5	✓
39	-47°	5287	9	45.2	-47	21.6	8.0	✓
40	-47°	5296	9	45.8	-47	23.1	9.1	✓
41	-47°	5306	9	46.4	-47	29.2	9.7	✓
42	-47°	5316	9	46.9	-47	20.9	9.2	✓
43	-48°	5004	9	43.0	-48	6.3	9.8	✓
44	-48°	5011	9	43.4	-48	2.9	8.4	✓
45	-47°	5260	9	43.8	-47	46.1	9.6	✓
46	-48°	5041	9	45.5	-48	23.8	9.7	✓
47	-48°	5044	9	45.7	-48	15.1	9.8	✓
48	-48°	5048	9	45.9	-48	4.2	9.5	✓
49	-48°	5053	9	46.3	-48	0.0	9.6	✓
50	-48°	5065	9	46.9	-48	22.0	9.4	✓
51	-48°	5074	9	47.3	-48	17.1	9.7	✓
52	-48°	5073	9	47.3	-48	4.0	9.5	✓
53	-47°	5339	9	48.4	-47	53.5	9.4	✓
54	-47°	5340	9	48.5	-47	40.9	9.5	✓

cards made out

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1913phae.proj.2152C

Wednesday. May 21, 1913.
B3g864 short disp.

No.	Int.	Class	Remark.
55	3	A0	
56	4	A0	
57	2	K0	
58	1	A2	
59	2	K5	
60	4	F0	
61	3	F8	
62	5	K0	
63	6	B9	
64	2	F2	
65	3	A3	
66	1	G0	
67	1	G2	
68	2	A3	
69	3	K0	
70	7	F8	
71	2	A0	
72	2	G0	
73	1	A0	
74	1	B9	
75	1	A0	
76	2	F8	
77	3	A2	
78	10	B5	
79	2	A2	
80	1	K5	
81	b	B5	

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1913phae.proj.2152C

55	-47°	5354	9	49.3	-47	~~36.7~~ 37.0	9.3	✓
56	-47°	5354	9	49.3	-47	36.7	9.3	✓
57	-47°	5361	9	50.0	-47	28.9	9.2	✓
58	~~-47°~~ -47°	5370	9	50.8	-47	47.0	9.8	✓
59	-47°	5385	9	51.7	-47	48.9	8.1	✓
60	-48°	5149	9	51.7	-48	14.0	9.3	✓
61	-48°	5145	9	51.4	-48	27.9	9.3	✓
62	-48°	5100	9	48.5	-48	20.5	8.2	✓
63	-48°	5122	9	49.8	-48	46.6	8.9	✓
64	-48°	5115	9	49.5	-48	58.0	9.4	✓
65	-49°	4775	9	48.4	-49	10.6	9.3	✓
66	-48°	5098	9	48.4	-48	55.4	9.8	✓
67	-48°	5078	9	47.4	-48	56.6	9.4	✓
68	-48°	5067	9	46.9	-48	56.3	9.8	✓
69	-49°	4727	9	45.4	-49	12.3	8.6	✓
70	-49°	4730	9	45.5	-49	2.2	7.8	✓
71	-49°	4750	9	46.7	-49	39.2	9.7	✓
72	-49°	4758	9	47.3	-49	28.6	9.2	✓
73	-49°	4749	9	46.6	-49	55.7	9.8	✓
74	-49°	4772	9	48.1	-49	42.6	9.7	✓
7	-50°	4618	9	49.0	-50	2.0	9.5	✓ 1 -49° 4779 superposed
75	~~-49°~~	~~4779~~	~~9~~	~~48.9~~	~~-49~~	~~59.7~~	~~9.9~~	
76	-50°	4608	9	48.6	-50	20.6	9.0	✓
77	-50°	4601	9	48.3	-50	27.1	9.2	✓
78	-50°	4622	9	49.3	-50	33.4	6.2	✓
79	-50°	4613	9	48.8	-50	55.0	9.6	✓
80	-50°	4603	9	48.4	-50	54.5	8.4	✓
81	-51°	4265	9	48.1	-51	7.3	7.7	✓

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1913phae.proj.2152C

Wednesday May 21 1913.
B3 9864 short disp.

No.	Int.	Class	Remark
82	3	Ao	
83	1	K2	
84	2	K2	
85	4	Ao	
86	9	Ao	
87	1	K2	
88	1	K	
89	1	F2	
90	8	B8	
91	6	go	
92	3	Ao	
93	2	Fo	
94	2	F2	
95	1	Ko	
96	1	A	
97	10	B5	
98	4	Ko	
99	3	A3	
100	3	Ko	
101	5	B9	
102	2	F5	
103	2	Ao	
104	4	g5	
105	3	g5	
106	2	A2	
107	2	go	
108	2	Ao	

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1913phae.proj.2152c

82	−51°	4248	9	46.9	−51	21.3	8.9	✓
83	−50°	4572	9	46.3	−50	55.3	8.8	✓
84	−50°	4639	9	50.4	−50	24.4	8.8	✓
85	−50°	4640	9	50.4	−50	13.8	9.0	✓
86	−49°	4801	9	50.2	−49	39.0	6.1	✓
87	−49°	4791	9	49.9	−49	40.0	9.2	✓
88	−49°	4796	9	50.1	−49	2.6	9.4	✓
89	−49°	4810	9	51.1	−49	5.6	9.6	✓
90	−49°	4831	9	52.5	−49	16.6	7.7	✓
91	−48°	5168	9	52.6	−48	57.6	7.4	✓
92	−48°	5172	9	53.0	−48	57.1	9.6	✓
93	−48°	5170	9	52.9	−48	46.6	9.6	✓
94	−48°	5162	9	52.4	−48	34.6	9.5	✓
95	−48°	5158	9	52.2	−48	29.4	9.5	✓
96	−48°	5150	9	51.7	−48	41.8	9.8	✓
97	−47°	5399	9	52.9	−47	48.9	6.3	✓
98	−47°	5414	9	54.2	−47	53.4	8.6	✓
99	−47°	5422	9	54.8	−47	55.4	9.8	✓
100	−48°	5203	9	55.2	−48	21.2	8.5	✓
101	−48°	5205	9	55.3	−48	45.6	8.5	✓
102	−48°	5202	9	55.1	−48	58.6	9.0	✓
103	−48°	5197	9	54.6	−48	36.6	9.5	✓
104	−49°	4851	9	54.3	−49	17.9	8.6	✓
105	−49°	4844	9	53.8	−49	31.6	9.1	✓
106	−49°	4856	9	54.7	−49	24.9	9.5	✓
107	−49°	4863	9	55.1	−49	15.4	9.0	✓
108	−49°	4875	9	56.0	−49	17.8	9.5	✓

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Wednesday, May 21, 1913

B39864 short exp.

No.	Int.	Class	Remarks
109	3	A2	
110	4	A0	
111	3	A0	
112	2	G5	
113	8	B5	
114	2	K2	
115	3	A0	
116	1	K0	
117	3	A2	
118	1	A5	
119	1	K0	
120	4	A2	
121	7	B5	
122	2	M0	
123	3	K0	
124	7	G5	
125	2	A2	
126	5	B8	
127	3	A2	
128	2	A5	
129	2	B8	
130	1	K5	
131	1	A2	
132	6	K5	
133	1	K2	
134	2	A0	
135	4	A2	

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109	-49°	4858	9	54.8	-49	48.4	9.3	✓
110	-49°	4859	9	54.9	-49	51.0	8.8	✓
111	-49°	4868	9	55.5	-49	38.1	9.3	✓
112	-49°	4873	9	55.9	-49	46.0	9.3	✓
113	-49°	4876	9	56.3	-49	52.7	7.2	✓
114	-50°	4750	9	57.2	-50	9.6	8.5	✓
115	-49°	4902	9	58.7	-49	26.9	9.2	✓
116	-48°	5226	9	56.8	-48	55.2	9.0	✓
117	-48°	5250	9	58.3	-48	42.8	9.2	✓
118	-48°	5228	9	57.0	-48	17.0	9.6	✓
119	-48°	5230	9	57.0	-48	22.4	9.1	✓
120	-48°	5238	9	57.4	-48	18.8	9.4	✓
121	-48°	5241	9	57.7	-48	15.6	8.0	✓
122	-48°	5253	9	58.6	-48	17.8	9.5	✓
123	-48°	5257	9	59.1	-48	1.4	8.9	✓
124	-47°	5500	9	59.5	-47	50.5	7.3	✓
125	-47°	5467	9	57.6	-47	54.0	9.8	✓
126	-47°	5453	9	56.9	-47	18.0	8.8	✓
127	-47°	5466	9	57.5	-47	20.9	9.3	✓
128	-47°	5486	9	58.5	-47	30.9	9.4	✓
129	-47°	5490	9	58.9	-47	33.1	9.2	✓
130	-47°	5502	9	59.5	-47	18.4	9.1	✓
131	-47°	5507	9	59.9	-47	8.0	9.8	✓
132	-47°	5513	10	0.4	-47	10.9	8.6	✓
133	-47°	5504	9	59.6	-47	23.5	9.5	✓
134	-47°	5510	10	0.2	-47	24.3	9.7	✓
135	-47°	5435	9	55.9	-47	0.2	9.4	✓

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Wednesday May 21, 1913.

B39864 Dust disk.

No.	Int	Class	Remark.
136	2	F8	
137	3	K0	
138	7	A2	
139	2	K0	
140	10	A0	
141	2	K5	
142	6	F0	
143	7	G5	
144	4	A0	
145	5	A2	
146	3	A0	
147	4	A3	
148	1	F8	
149	8	K0	
150	3	F2	
151	10	B8	
152	2	A0	
153	6	K0	
154	4	A2	
155	8	G5	
156	7	B5	Partly superposed on 155.
157	3	G5	
158	2	G0	
159	7	K0	
160	1	K	Another star superposed at south
161	1	K0	
162	6	A2	

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136	-46°	5727	9	56.4	-46	56.0	9.3	✓
137	-46°	5723	9	56.2	-46	44.9	8.9	✓
138	-46°	5720	9	56.1	-46	19.4	8.2	✓
139	-46°	5739	9	57.3	-46	10.6	8.8	✓
140	-46°	5759	9	58.4	-46	1.8	6.5	✓
141	-45°	5389	9	40.2	-45	35.4	8.8	✓
142	-45°	5401	9	40.9	-45	20.6	8.2	✓
143	-45°	5411	9	41.4	-45	20.3	7.4	✓
144	-45°	5391	9	40.3	-45	56.0	9.0	✓
145	-45°	5435	9	43.4	-45	57.8	8.7	✓
146	-46°	5532	9	44.3	-46	9.3	9.3	✓
147	-46°	5536	9	44.6	-46	27.9	9.2	✓
148	-46°	5539	9	44.8	-46	39.2	9.6	✓
149	-46°	5558	9	45.9	-46	21.0	6.4	✓
150	-45°	5475	9	45.4	-45	35.1	9.0	✓
151	-45°	5470	9	45.1	-45	9.0	5.6	✓
152	-45°	5504	9	46.8	-45	16.2	9.3	✓
153	-45°	5499	9	46.5	-45	36.6	6.2	✓
154	-45°	5517	9	47.7	-45	40.6	9.0	✓
155	-45°	5508	9	46.9	-45	57.7	5.0	✓
156	-45°	5507	9	46.8	-45	55.5	7.7	✓
157	-46°	5587	9	48.2	-46	5.9	8.8	✓
158	-46°	5591	9	48.6	-46	9.7	9.0	✓
159	-46°	5613	9	49.5	-46	2.8	7.4	✓
160	-46°	5583	9	47.8	-46	33.3	9.5	✓
161	-46°	5605	9	49.3	-46	30.2	9.4	✓
162	-46°	5645	9	51.6	-46	28.3	8.4	✓

mags. 9.7 -46° 5582 superposed

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1913phae.proj.2152C

Wednesday, May 21, 1913

B39 8/64 short disp

No.	Int.	Class	Remarks
163	1	g^5	
164	6	g^5	
164a	4	K0	
165	3	A2	
166	2	A0	
167	1	F0	
168	4	A0	
169	2	A5	
170	1	g^5	
171	4	G2	
172	5	K2	
173	3	A0	
174	2	A3	
175	6	B9	
176	2	F5	
177	3	K0	
178	5	F0	
179	6	B9	
180	5	A0	
181	3	g^5	
182	2	A2	
183	8	B3	
184	3	F0	
10.25 185	5	A0	
186			
187			
188			
189			

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1913phae.proj.21526

163	-47°	5378	9	51.4	-47	6.6	9.2 ✓
164	-47°	5381	9	51.6	-47	9.9	7.3 ✓
164a	-47°	5387	9	52.0	-47	37.0	7.7 ✓
165	-47°	5376	9	51.4	-47	27.9	9.3 ✓
~~164a~~							
166	-47°	5377	9	51.4	-47	35.0	9.6 ✓
167	-47°	5394	9	52.5	-47	28.7	9.7 ✓
168	-46°	5667	9	52.8	-46	58.0	9.5 ✓
169	-47°	5404	9	53.2	-47	2.7	9.8 ✓
170	-46°	5676	9	53.4	-46	48.8	9.1 ✓
171	-46°	5680	9	54.1	-46	53.3	7.8 ✓
172	-46°	5693	9	54.3	-46	29.5	7.8 ✓
173	-46°	5698	9	54.7	-46	24.2	9.4 ✓
174	-46°	5696	9	54.6	-46	10.2	9.4 ✓
175	-46°	5673	9	53.3	-46	26.4	8.9 ✓
176	-46°	5661	9	52.2	-46	4.7	8.1 ✓
177	-45°	5588	9	51.5	-45	48.0	8.4 ✓
178	-45°	5638	9	54.4	-45	41.7	8.2 ✓
179	-45°	5562	9	50.2	-45	8.9	8.0 ✓
180	-45°	5567	9	49.8	-45	10.9	8.4 ✓
181	-45°	5556	9	49.6	-45	8.5	8.4 ✓
182	-45°	5545	9	48.9	-45	13.7	9.4 ✓
183	-50°	4662	9	51.8	-50	44.4	6.7 ✓
184	-50°	4692	9	53.5	-50	27.2	9.1 ✓
185	-50°	4701	9	54.0	-50	23.8	9.0 ✓

Identified by J. C. M. August 1, 1913

Checked by A.M.C. Sept. 9. 1913

Cards made out by S.R.B.

Cards checked by S.F.M.

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1913phae.proj.2152c

Wednesday May 21, 1913

Time 11.05

I 38 321 long disp.

No	Int	Class	Remarks
1	7	Ko	
2	2	ky	
3	3	ky	
4	1	ky	
5	3	ky	
6	1	ky	
7	2	K8	
8	1	K8	
9	7	A2	
10	1	K	
11	5	ky	
12	6	Ko	E.
13	8	Ao	E.
14	4	Ko	E.
15	2	Ma	
16	3	K5	
17	1	ky	
18	1	ky	
19	4	Ao	
20	1	K	
21	3	ky	
22	7	Ko	
23	1	ky	
24	1	Ko	
25	1	ky	
26	2	K5	
27	10+	A2	

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1913phae,proj.2152C

1	+52°	1679	11	30.0	+52	25.9	6.0 ✓
2	+52°	1677	11	29.3	+52	57.3	7.3 ✓
3	+52°	1574	11	26.8	+52	47.2	8.0 ✓
4	+52°	1576	11	30.1	+52	51.6	8.8 ✓
5	+52°	1578	11	31.5	+52	59.5	7.8 ✓
6	+53°	1503	11	32.5	+53	3.0	8.0 ✓
7	+52°	1581	11	33.7	+52	48.2	8.3 ✓
8	+52°	1582	11	35.2	+52	43.9	8.3 ✓
9	+53°	1506	11	36.0	+53	12.8	7.0 ✓
10	+52°	1583	11	36.1	+52	47.2	8.9 ✓
11	+52°	1587	11	38.7	+52	43.9	7.5 ✓
12	+51°	1693	11	38.4	+51	21.9	7.3 ✓
13	+50°	1862	11	40.2	+50	38.1	7.0 ✓
14	+50°	1871	11	44.6	+50	44.8	7.2 ✓
15	+52°	1590	11	43.2	+52	12.9	7.3 ✓
16	+53°	1511	11	40.2	+53	49.2	7.8 ✓
17	+54°	1464	11	39.3	+54	5.3	8.3 ✓
18	+54°	1463	11	37.8	+54	35.2	8.3 ✓
19	+54°	1461	11	37.4	+54	45.5	8.0 ✓
20	+55°	1485	11	38.6	+55	15.3	8.7 ✓
21	+54°	1468	11	42.3	+54	37.2	7.9 ✓
22	+55°	1491	11	42.5	+55	4.3	6.8 ✓
23	+55°	1490	11	42.2	+55	34.7	8.8 ✓
24	+55°	1494	11	43.8	+55	6.3	8.5 ✓
25	+55°	1493	11	43.8	+55	21.7	8.5 ✓
26	+54°	1473	11	44.8	+54	35.3	8.7 ✓
27	+54°	1475	11	46.2	+54	29.6	2.5 ✓ Trail

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1913phae.proj.2152C

Wednesday, May 21, 1913.
I 38 321 long disp.

No.	Int.	Class	Remark.
28	3	A_3	
29	2	F5	
30	2	K0	
31	2	F5	
32	2	K0	
33	1	G5	
34	1	G	
35	1	F8	
36	2	F8	
37	1	K0	
38	1	K0	
39	2	F8	
40	1	G5	
41	3	G5	
42	2	K0	
43	4	F5	
44	6	F5	
45	2	F5	
46	2	K0	
47	6	F2	
48	4	K0	
49	2	G0	
50	B2	K0	
51	1	G5	
52	1	K0	
53	8	K0	
54	3	K0	

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1913phae.proj.2152c

28	+55°	1497	11	47.9	+55	35.1	8.1 ✓
29	+54°	1481	11	50.5	+54	59.8	8.3 ✓
30	+55°	1500	11	51.2	+55	17.8	8.0 ✓
31	+55°	1501	11	52.0	+55	22.1	8.5 ✓
32	+53°	1516	11	49.3	+53	53.6	8.4 ✓
33	+55°	1496	11	47.0	+55	2.8	8.7 ✓
34	+54°	1479	11	49.5	+54	7.4	9.2 ✓
35	+54°	1480	11	49.8	+54	21.9	8.9 ✓
36	+54°	1482	11	52.3	+54	11.9	8.3 ✓
37	+52°	1595	11	47.4	+52	45.4	8.3 ✓
38	+53°	1517	11	49.3	+53	5.6	8.5 ✓
39	+52°	1603	11	54.9	+52	8.9	8.4 ✓
40	+53°	1520	11	53.8	+53	37.0	8.7 ✓
41	+54°	1488	11	57.3	+54	54.1	7.8 ✓
42	+54°	1489	11	58.4	+54	17.5	8.0 ✓
43	+53°	1525	11	58.2	+53	40.9	7.7 ✓
44	+52°	1608	11	58.2	+52	44.4	7.2 ✓
45	+52°	1607	11	57.6	+52	3.0	8.6 ✓
46	+54°	1492	12	1.7	+54	29.8	8.0 ✓
47	+54°	1493	12	2.0	+54	12.5	7.0 ✓
48	+54°	1499	12	4.3	+54	14.0	7.5 ✓
49	+55°	1514	12	3.0	+55	17.3	8.6 ✓
50	+55°	1516	12	3.8	+55	10.0	7.8 ✓
51	+54°	1497	12	3.7	+54	43.7	8.3 ✓
52	+54°	1501	12	6.3	+54	2.2	9.0 ✓
53	+54°	1504	12	7.5	+54	15.0	6.7 ✓
54	+53°	1535	12 11	8.3	+53	31.5	8.3 ✓

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Wednesday, May 21, 1913.
I 38321 long disp.

No.	Int.	Class	Remarks
55	8	K2	
56	3	K0	
57	5	K0	
58	1	K0	
59	4	F5	
60	5	F2	
61	2	K0	
62	10	K0	
63	3	K0	
64	1	F8	
65	2	A2	
66	1	G	
67	1	G5	
68	3	G5	E.
69	8	A0	E.
70	8	Ma	E.
71	2	K0	E.
72	2	K0	
73	3	G5	
74	3	A2	
75	5	G5	
76	4	F5	
77	5	K5	
78	1	F8	
79	2	K5	
80	1	K0	
81	8	K0	

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1913phae.proj.2152c

55	+54°	1510	12	10.3	+54	0.3	6.1	✓
56	+53°	1614	12	3.6	+52	36.6	7.5	✓
57	+52°	1617	12	5.5	+52	44.9	8.0	✓
58	+52°	1613	12	2.8	+52	7.8 4	8.4 5	✓
59	+51°	1733	12	3.5	+51	21.0	7.8	✓
60	+51°	1734	12	4.8 4	+51	38.7	7.9	✓
61	+52°	1619	12	7.3	+52	48.0	8.3	✓
62	+52°	1626	12	17.0	+52	20.5	5.2	✓
63	+55°	1524	12	11.5	+55	25.2	7.8	✓
64	+55°	1525	12	12.6	+55	2.7	8.8	✓
65	+54°	1515	12	13.1	+54	42.5	8.3	✓
66	+54°	1514	12	13.1	+54	23.8	8.5	✓
67	+54°	1517	12	13.9	+54	8.5	8.3	✓
68	+54°	1522	12	16.8	+54	57.7	7.5	✓
69	+55°	1533	12	19.6	+55	57.9	7.0	✓
70	+56°	1598	12	20.7	+56	30.3	6.0	✓
71	+55°	1531	12	19.4	+55	23.5	7.7	✓
72	+54°	1447	11	26.1	+54	24.7	8.3	✓
73	+54°	1450	11	27.5	+54	22.8	7.5	✓
74	+54°	1451	11	27.7	+54	42.0	8.4	✓
75	+56°	1529	11	28.7	+56	57.5	7.2	✓
76	+56°	1536	11	32.4	+56	6.0	8.0	✓
77	+55°	1481	11	33.9	+55	58.1	6.5	✓
78	+56°	1539	11	35.1	+56	7.4	8.6	✓
79	+56°	1540	11	35.3	+56	50.1	8.0	✓
80	+56°	1547 2	11	38.6 39.1	+56	26.8 8	8.1 5.7	✓
81	+56	1544	11	39.1	+56	26.8	5.7	✓

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1913phae.proj.2152C

Wednesday, May 21, 1913.
I 38 321 long disp.

No.	Int.	Class	Remarks
82	1	K0	
83	2	K0	
84	1	G	
85	2	G	
86	5	F8	
87	1	G2	
88	2	F5	
89	5	K0	
90	1	K0	
91	1	G0	
92	2	G5	
11.20 93	4	F5	
94			
95			
96			
94	2	G5	
95	1	K0	
96	2	G0	
97	8	G5	
98	5	K5	
99	4	K2	
100	8	K0	
101	4	K2	

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1913phae.proj.2152C

82	+56°	1547	11	40.9	+56	30.2	8.1	✓
83	+56°	1554	11	47.7	+56	50.1	8.8	✓
84	+58°	1352	~~12~~ 11	55.5	+58	14.2	9.0	✓
85	+56°	1564	11	57.9	+56	47.7	8.8	✓
86	+56°	1568	~~12~~ 12	0.9	+56	15.7	8.0	✓ +56° 1569 superposed magn. 8.3
87	+57°	1357	12	3.9	+57	29.5	8.4	✓
88	+56°	1572	12	3.7	+56	54.5	8.4	✓
89	+56°	1575	12	5.1	+56	31.0	7.3	✓
90	+56°	1578	12	7.2	+56	23.5	8.5	✓
91	+56	1579	12	8.1	+56	19.1	8.6	✓
92	+56°	1582	12	9.0	+56	44.2	8.2	✓
93	+56°	1590	12	15.7	+56	38.8	8.2	✓

Identified by W. C. W. May 26, 1913.
Checked by A.M.C. June 3, 1913
cards made out by W. C. W.

✓	94	+54°	1459	11	36.8	+54	28	8.0 ✓
✓	95	+52°	1591	11	44.1	+52	48	8.7 ✓
✓	96	+51°	1713	11	47.9	+51	49	8.0 10 on J38429
✓	97	+55	1473	11	27.1	+55	35	6.0 103 on J37717
✓	98	+57	1359	12	4.5	+57	52	6.5 ~~88~~ 33 on J37718
✓	99	+57	1388	11	27.5	+57	1	7.8 1 " "
✓	100	+57	1343					15 " "
✓	101	+57	1364					36 " "

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1913phae.proj.2152c

Wednesday, May 21, 1913.

Time: 11.24

I 38322 long disp.

No.	Int	Class	Remark
1	3	F8	
2	1	F	
3	8	F5	
4	1	K	E.
5	3	A5	E.
6	7	F5	E.
7	5	A0	E.
8	4	K0	E.
9	2	F5	E.
10	4	K0	
11	3	K0	
12	2	A2	
13	2	K0	
14	4	F2	
15	1	A2	
16	2	G0	
17	2	G5	
18	6	G2	
19	2	F5	
20	4	F2	
21	1	Ma	
22	2	K0	
23	3	K2	
24	5	K2	
25	2	F2	
26	3	G0	
27	4	G5	

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1913phae..proj..21520

1	+53°	1547	12	19.1	+53	28.8	8.2 1 v
2	+54°	1530	12	22.2	+54	3.7	8.8 1 v
3	+53°	1554	12	23.9	+53	51.5	6.5 1 v
4	+57°	1754	12	19.9	+57	59.5	7.3 1 v
5	+52°	1630	12	22.9	+52	22.8	8.7 1 v
6	+52°	1631	12	23.2	+52	20.0	6.5 1 v
7	+52°	1644	12	38.1	+52	31.7	7.8 1 v
8	+52°	1650	12	37.7	+52	33.6	7.2 1 v
9	+52°	1654	12	40.2	+52	23.7	7.4 1 v
10	+53°	1569	12	41.7	+53	14.4	6.5 ^ v
11	+53°	1568	12	40.8	+53	39.1	7.3 ^ v
12	+56°	1600	12	22.7	+56	2.0	8.5 1 v
13	+55°	1536	12	24.4	+55	55.2	7.9 1 v
14	~~+54°~~ +55°	1548	12	~~39.9~~ 26.1	~~+54~~ +55	~~35.3~~ 36.5	8.0 ^ v
15	+55°	1539	12	25.7	+55	10.6	9.0 ^ v
16	+56°	1605	12	26.6	+56	6.0	8.7 ^ v
17	+56°	1607	12	28.0	+56	4.6	8.5 ^ v
18	+55°	1545	12	31.2	+55	39.0	6.8 ^ v
19	+56°	1610	12	30.9	+56	45.2	8.6 ^ v
20	+56°	1612	12	32.6	+56	47.8	7.5 1 v
21	+56°	1615	12	33.7	+56	38.3	8.2 ^ v
22	+56°	1618	12	35.1	+56	32.0	8.2 ^ v
23	+57°	1381	12	29.1	+57	22.0	7.8 ^ v
24	+57°	1382	12	29.5	+57	37.7	7.5 ^ v
25	+57°	1383	12	30.3	+57	27.9	8.4 1 v
26	+57°	1378	12	25.8	+57	46.2	8.5 ^ v
27	+57°	1376	12	22.7	+57	8.4	8.2 ^ v

cards made out.

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1913phae.proj.2152C

Wednesday, May 21, 1913

Σ 38332. long dup:

No.	Int.	Class	Remark
28	1	K0	
29	2	G0	
30	1	G5	
31	1	F8	
32	1	K0	
33	1	K5	
34	1	K0	
35	1	K0	
36	1	K0	
37	2	A0	
38	1	G0	
39	1	K0	
40	9	A2	
41	1	G0	
42	4	A3	
43	2	G5	
44	1	F5	
45			

45	2	G5	
46	2	K2	
47	2	G0	
48	3	G5	
49	2	K2	
50	7	A0	
51	7	Ma	

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1913phae.proj.21526

28	+58°	1389	12	34.3	+58	34.2	8.7	1 v
29	+58°	1388	12	33.8	+58	50.6	8.8	1 v
30	+58°	1391	12	36.0	+58	48.3	8.5	1 v
31	+59°	1454	12	32.0	+59	11.5	8.9	1 v
32	+58°	1384	12	29.9	+58	6.6	9.0	1 v
33	+57°	1391	12	39.8	+57	30.9	8.4	1 v
34	+57°	1392	12	41.2	+57	47.1	8.5	1 v
35	+57°	1394	12	44.3	+57	38.2	8.6	1 v
36	+57°	1396	12	46.1	+57	25.5	8.8	1 v
37	+57°	1397	12	47.4	+57	13.1	8.9	1 v
38	+57°	1399	12	49.0	+57	47.6	9.0	1 v
39	+55°	1563	12	48.3	+55	44.9	8.3	1 v
40	+54°	1556	12	49.9	+54	53.2	6.2	1 v
41	+54°	1548	12	39.9	+54	35.3	8.0	1 v
42	+55°	1555	12	42.4	+55	2.4	8.2	1 v
43	+55°	1554	12	41.8	+55	15.4	8.3	1 v
44	+55°	1549	12	35.6	+55	0.1	8.8	1 v

Identified by AMC. July 14, 1913
Checked Nov. 19. 1913 LAW
Cards made out by S. R. B.
Cards checked by AMC.

v	45	+59°	1435	12	9.7	+59	14	8.8	90 on I 37718
v	46	+58°	1373	12	17.0	+58	34	8.2	38 " "
v	47	+58°	1374	12	17.9	+58	10	8.5	40 " "
-	48	+54	1562						68 on I 38321
-	49	+55	1531						71 " "
-	50	+55	1533						69 " "
-	51	+56	1598						70 " "

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1913phae.proj.2152C

Tuesday September 2, 1913

B19015 short

Time 11.50 No.	Dur.	Class	Remark
1	6	a0	
2	3	K2	
3	3	a3	
4	10	a2	
5	3	a0	
6	2	a0	
7	1	a0	
8	1	a2	
9	1	K0	
10	21	f0	
11	2	g0	
12	3	a3	
13	3	K0	
14	1	K5	
15	5	K0	
16	3	g0	
17	6	K0	
18	1	K5	
19	3	a21	
20	6	K0	
21	2	g5	
22	2	f8	
23	6	a0	
24	2	a0	
25	1	a0	
26	5	f0	
27	5	a0	

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1913phae..proj..21526

1	−10°	2506	8	17.6	−10	2.7	7.8 ∧ ⌣
2	−10°	2508	8	17.9	−10	16.9	8.3 ∧ ⌣
3	−10°	2511	8	18.6	−10	18.8	9.0 ∧ ⌣
4	−10°	2514	8	19.1	−10	2.6	6.3 ∧ ⌣
5	−10°	2518	8	19.8	−10	32.6	9.0 ∧ ⌣
6	−10°	2521	8	19.9	−10	25.9	9.0 ∧ ⌣
7	−10°	2529	8	20.5	−10	27.5	9.3 ∧ ⌣
8	−10°	2525	8	20.2	−10	53.7	9.2 ∧ ⌣
9	−10°	2526	8	20.3	−10	55.8	9.1 ∧ ⌣
10	−10°	2530	8	20.6	−10	51.9	9.2 ∧ ⌣
11	−10°	2531	8	21.1	−10	59.5	9.1 ∧ ⌣
12	−10°	2535	8	21.3	−10	54.9	9.1 ∧ ⌣
13	−10°	2539	8	21.6	−10	54.5	8.7 ∧ ⌣
14	−10°	2549	8	23.6	−10	45.9	8.7 ∧ ⌣
15	−10°	2550	8	24.3	−10	27.0	8.1 ∧ ⌣
16	−10°	2551	8	24.4	−10	58.6	8.9 ∧ ⌣
17	−11°	2372	8	23.9	−11	19.0	7.7 ∧ ⌣
18	−11°	2370	8	23.6	−11	21.6	9.0 ∧ ⌣
19	−11°	2371	8	23.8	−11	40.3	9.2 ∧ ⌣
20	−10°	2558	8	25.6	−10	55.0	8.1 ∧ ⌣
21	−11°	2382	8	26.1	−11	2.6	9.0 ∧ ⌣
22	−11°	2384	8	26.5	−11	15.4	9.3 ∧ ⌣
23	−10°	2565	8	26.9	−10	28.5	8.0 ∧ ⌣
24	−10°	2566	8	27.0	−10	10.8	9.0 ∧ ⌣
25	−10°	2560	8	25.9	−10	17.4	9.4 ∧ ⌣
26	−10°	2570	8	28.0	−10	26.1	8.5 ∧ ⌣
27	−10°	2572	8	28.6	−10	17.4	8.4 ∧ ⌣

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1913phae.proj.2152C

Tuesday September 2, 1913
B 19015 short.

No.	Sut.	Class	Remark
28	3	F5	
29	3	A0	
30	1	K5	
31	2	K2	
32	3	F2	
33	8	A0	
34	6	F2	
35	3	F0	
36	7	A2	
37	6	Ma	
38	5	A3	
39	5	Bq	
40	3	A0	
41	4	G0	
42	2	A3	
43	3	K0	
44	7	G5	
45	1	Mb	
46	7	A3	
47	2	K0	
48	2	A2	
49	3	A0	
50	2	A0	
51	3	K0	
52	3	K2	
53	2	K2	
54	2	F2	

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1913phae.proj.2152c

28	−9°	2581	8	28.2	−9	53.0	8.7 1 ∪
29	−9°	2587	8	28.6	−9	53.5	9.0 ∧ ∪
30	−9°	2583	8	28.3	−9	29.2	8.6 ∧ ∪
31	−9°	2593	8	29.6	−9	51.0	8.7 1 ∪
32	−9°	2592	8	29.5	−9	57.1	9.0 1 ∪
33	−10°	2578	8	29.6	−10	3.8	7.8 ∧ ∪
34	−10°	2583	8	30.7	−10	26.6	8.5 1 ∪
35	−10°	2585	8	31.2	−10	37.5	9.0 1 ∪
36	−10°	2588	8	31.5	−10	19.0	7.9 1 ∪
37	−10°	2575	8	28.9	−10	47.5	7.7 ∧ ∪
38	−11°	2403	8	29.1	−11	6.5	8.5 1 ∪
39	−11°	2398	8	28.2	−11	13.0	8.8 1 ∪
40	−11°	2396	8	27.9	−11	21.6	9.1 1 ∪
41	−11°	2399	8	28.3	−11	33.6	8.7 1 ∪
42	−11°	2393	8	27.8	−11	37.2	9.4 ∧ ∪
43	−11°	2388	8	27.0	−11	43.0	8.5 1 ∪
44	−11°	2390	8	27.4	−11	51.2	8.2 1 ∪
45	−12°	2586	8	28.0	−12	1.5	9.0 ∧ ∪
46	−12°	2577	8	26.5	−12	14.8	7.8 1 ∪
47	−12°	2573	8	26.2	−12	28.0	9.0 ∧ ∪
48	−12°	2566	8	25.0	−12	56.4	9.1 1 ∪
49	−13°	2577	8	25.5	−13	15.0	9.2 1 ∪
50	−13°	2580	8	25.6	−13	12.6	9.7 ∧ ∪
51	−13°	2585	8	26.1	−13	12.9	8.6 ∧ ∪
52	−13°	2589	8	26.4	−13	7.9	8.5 ∧ ∪
53	−12°	2575	8	26.5	−12	58.1	8.5 ∧ ∪
54	−12°	2580	8	26.8	−12	51.0	9.0 1 ∪

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1913phae.proj.2152C

Tuesday, September 2, 1913

B 19015 short.

No.	Dist.	Class	Remark
55	3	K5	
56	2	K0	
57	2	K2	
58	2	Ma	
59	3	a5	
60	8	a0	
61	1	a	Nearly all superposed on 60
62	1	K5	
63	2	a3	
64	5	g5	
65	2	a2	
66	3	f5	
67	5	K0	
68	7	g5	
69	8	a5	
70	5	Bq	
71	1	K	Another star superposed at Null-
72	1	a2	
73	2	a2	
74	7	f2	
75	1	K	
76	2	K0	
77	5	a0	
78	3	a0	
79	10+	f0	
80	9	f2	
81	9	K0	

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1913phae.proj.2152C

55	−12°	2583	8	27.5	−12	45.6	8.5	1 ⌣
56	−13°	2596	8	27.2	−13	12.5	8.7	1 ⌣
57	−13°	2598	8	27.4	−13	11.3	8.9	1 ⌣
58	−13°	2592	8	26.7	−13	28.0	9.1	1 ⌣
59	−13°	2595	8	27.1	−13	33.4	9.0	1 ⌣
60	−13°	2593	8	27.0	−13	54.3	8.8	1 ⌣
61	−13°	2594	8	27.1	−13	55.3	9.4	1 ⌣
62	−14°	2574	8	27.3	−14	2.1	9.2	1 ⌣
63	−14°	2575	8	27.7	−14	1.6	9.6	1 ⌣
64	−13°	2600	8	28.1	−13	57.3	8.8	1 ⌣
65	Approx 1855 pos.		8	28.8	−13	47		1 ⌣
66	−13°	2606	8	29.2	−13	53.0	9.2	1 ⌣
67	−14°	2586	8	29.8	−14	6.6	8.5	1 ⌣
68	−14°	2588	8	30.1	−14	15.8	8.6	1 ⌣
69	−13°	2613	8	30.2	−13	30.1	8.2	1 ⌣
70	−13°	2615	8	30.2	−13	33.1	9.0	1 ⌣
71	−13°	2609	8	29.6	−13	19.5	9.0	1 ⌣ −13° 2608 magn. 9.2 superposed
72	−13°	2604	8	28.4	−13	9.9	9.1	1 ⌣
73	−12°	2598	8	29.2	−12	45.9	9.0	1 ⌣
74	−12°	2600	8	29.6	−12	38.8	7.8	1 ⌣
75	−12°	2594	8	28.7	−12	33.6	9.1	1 ⌣
76	−12°	2596	8	28.9	−12	8.4	9.1	1 ⌣
77	−11°	2407	8	29.4	−11	55.8	8.8	1 ⌣
78	−12°	2606	8	30.6	−12	6.6	9.2	1 ⌣
79	−12°	2607	8	30.7	−12	5.0	6.7	1 ⌣
80	−12°	2609	8	30.9	−12	1.6	7.8	1 ⌣
81	−12°	2610	8	31.0	−12	11.7	7.3	1 ⌣

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1913phae.proj.2152C

Tuesday September 2, 1913

B 19015 short.

No.	Dur.	class	Remark.
82	2	F0	
83	2	F2	
84	1	K0	
85	1	K2	
86	6	F2	
87	10+	A0	
88	3	F0	
89	1	K	
90	4	F0	
91	2	G	
92	2	K0	
93	3	F2	
94	3	K5	
95	3	A2	
96	5	K0	
97	3	K5	
98	5	K0	
99	4	Ma	
June 12,10	100	10	A2
Sept. 3, 1913.	101	3	F8
9 45 a.m.	102	2	F8
	103	1	K0
	104	3	K0
	105	2	K0
	106	7	K2
	107	3	K0
	108	2	F5

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1913phae.proj.2152C

82	−12°	2608	8	30.8	−12	25.2	9.2	1 ✓
83	−12°	2612	8	31.2	−12	11.9	9.2	1 ✓
84	−12°	2613	8	31.5	−12	9.6	9.2	1 ✓
85	−11°	2416	8	32.1	−11	59.8	9.1	1 ✓
86	−12°	2619	8	32.1	−12	19.5	8.5	1 ✓
87	−12°	2620	8	32.4	−12	13.3	6.9	1 ✓
88	−12°	2616	8	31.7	−12	42.0	8.5	1 ✓
89	−12°	2618	8	31.9	−12	45.4	9.0	1 ✓
90	−13°	2628	8	32.3	−13	2.6	8.5	1 ✓
91	−12°	2611	8	31.1	−12	52.6	9.1	1 ✓
92	−13°	2619	8	30.8	−13	3.1	9.0	1 ✓
93	−13°	2617	8	30.8	−13	20.4	9.0	1 ✓
94	−13°	2623	8	31.3	−13	25.5	8.8	1 ✓
95	−14°	2592	8	30.8	−14	0.6	9.3	1 ✓
96	−14°	2596	8	31.9	−14	13.2	8.7	1 ✓
97	−14°	2597	8	32.2	−14	10.1	8.7	1 ✓
98	−13°	2633	8	32.8	−13	58.9	8.2	1 ✓
99	−14°	2608	8	33.3	−14	31.4	7.8	1 ✓
100	−14°	2611	8	33.6	−14	11.5	8.2	1 ✓
101	−11°	2333	8	16.1	−11	2.4	8.7	1 ✓
102	−11°	2338	8	16.4	−11	12.5	9.1	1 ✓
103	−10°	2502	8	17.3	−10	58.9	9.0	1 ✓
104	−10°	2503	8	17.3	−10	42.4	8.8	1 ✓
105	−11°	2344	8	17.7	−11	2.7	8.9	1 ✓
106	−11°	2345	8	17.8	−11	3.1	7.5	1 ✓
107	−11°	2335	8	16.2	−11	35.7	8.7	1 ✓
108	−11°	2331	8	15.8	−11	37.0	9.1	1 ✓

There are two stars on plate (see chart plate 2444 80) same R.A. & slightly different dec. Only one in catalogue

Both these stars are superposed upon a third star between them in both R.A. & Dec. It is not in catalogue

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1913phae.proj.2152C

Wednesday September 3, 1913

No.	Dist.	Class	Remark	B1915 chart.
109	1	K5		
110	2	K2		
111	3	K0		
112	1	G5		
113	3	F8		
114	2	K5		
115	10	B9		
116	1	K0		
117	1	A0		
118	5	A0		
119	1	A2		
120	2	A0		
121	5	G5		
122	6	G5		
123	3	G0		
124	4	K0		
125	10	K0		
126	2	A2		
127	1	G0		
128	2	K5		
129	1	A		
130	2	A0		
131	3	A0		
132	2	F8		
133	3	A0		
134	5	F5		
135	5	A2		

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1913phae.proj.2152C

109	-11°	2330	8	15.7	-11	47.6	9.1 ∧ ∪
110	-11°	2332	8	16.0	-11	55.7	8.4 ∧ ∪
111	-12°	2497	8	16.7	-12	2.1	8.5 ∧ ∪
112	-11°	2339	8	16.7	-11	54.6	9.0 ∧ ∪
113	-12°	2500	8	17.1	-12	14.2	8.8 ∧ ∪
114	-12°	2501	8	17.4	-12	19.6	8.7 ∧ ∪
115	-12°	2510	8	18.2	-12	17.3	7.0 ∧ ∪
116	-11°	2347	8	18.0	-11	51.7	9.1 ∧ ∪
117	-12°	2513	8	18.6	-12	8.2	9.4 ∧ ∪
118	-11°	2352	8	18.8	-11	57.5	8.3 ∧ ∪
119	-11°	2349	8	18.4	-11	25.3	9.8 ∧ ∪
120	-11°	2351	8	18.6	-11	25.3	9.5 ∧ ∪
121	-11°	2355	8	19.2	-11	30.6	8.3 ∧ ∪
122	-11°	2358	8	19.8	-11	17.9	8.0 ∧ ∪
123	-11°	2362	8	20.2	-11	22.5	9.2 ∧ ∪
124	-11°	2361	8	20.0	-11	46.7	8.3 ∧ ∪
125	-12°	2524	8	19.9	-12	3.5	6.0 ∧ ∪
126	-12°	2519	8	19.6	-12	17.0	9.3 ∧ ∪
127	-12°	2522	8	19.8	-12	25.9	9.1 ∧ ∪
128	-12°	2530	8	20.0	-12	24.0	8.3 ∧ ∪
129	-12°	2531	8	20.1	-12	16.8	9.2 ∧ ∪
130	-12°	2533	8	20.5	-12	6.4	9.5 ∧ ∪
131	-11°	2364	8	21.1	-11	59.0	9.2 ∧ ∪
132	-12°	2537	8	20.9	-12	17.5	8.8 ∧ ∪
133	-12°	2545	8	21.4	-12	9.3	9.1 ∧ ∪
134	-12°	2546	8	21.5	-12	11.3	8.5 ∧ ∪
135	-12°	2547	8	21.6	-12	15.0	8.8 ∧ ∪

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1913phae.proj.2152C

Wednesday September 3, 1913

B 1901.5 Short.

136	2	K5	Partly superposed on 137.
137	4	K5	
138	4	A2	
139	8	A2	
140	4	F2	
141	1	K0	
142	1	F8	
143	1	A	
144	1	K0	
145	2	F8	
146	1	A2	
147	2	A5	
148	9	A0	
149	8	A3	
150	1	A5	
151	6	A2	
152	7	F2	
153	3	K5	
154	4	A0	
155	2	A5	
156	2	A3	
157	10	K0	
158	2	K0	
159	2	A2	
160	1	A0	
161	2	K2	
162	6	F8	

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1913phae.proj.2152C

136	−12°	2551	8	22.6	−12	24.6	8.3 1 v
137	−12°	2552	8	22.6	−12	21.6	8.1 1 v
138	−12°	2554	8	23.2	−12	17.3	9.1 1 v
139	−12°	2558	8	23.6	−12	8.6	8.2 1 v
140	−12°	2562	8	24.1	−12	9.8	8.9 1 v
141	−11°	2376	8	24.6	−11	59.6	9.2 1 v
142	−12°	2565	8	25.0	−12	2.4	9.4 1 v
143	−11°	2378	8	25.1	−11	55.6	9.5 1 v
144	−11°	2380	8	25.5	−11	44.9	9.1 1 v
145	−12°	2560	8	23.8	−12	27.3	9.1 1 v
146	−12°	2556	8	23.5	−12	33.3	9.3 1 v
147	−12°	2559	8	23.7	−12	52.0	9.1 1 v
148	−12°	2557	8	23.6	−12	58.8	7.2 1 v
149	−13°	2566	8	24.3	−13	31.5	7.8 1 v
150	−12°	2555	8	23.3	−12	52.0	9.3 1 v
151	−12°	2543	8	21.4	−12	45.6	8.5 1 v
152	−13°	2552	8	21.6	−13	4.7	8.0 1 v
153	−13°	2549	8	21.0	−13	6.7	7.7 1 v
154	−13°	2533	8	19.2	−13	12.4	8.6 1 v
155	−13°	2526	8	18.6	−13	10.4	9.3 1 v
156	−12°	2498	8	16.8	−12	46.6	9.0 1 v
157	−12°	2490	8	16.0	−12	35.3	6.6 1 v
158	−12°	2487	8	15.8	−12	11.7	8.6 1 v
159	−11°	2328	8	15.0	−11	47.8	9.2 1 v
160	−12°	2484	8	15.5	−12	26.1	9.3 1 v
161	−13°	2513	8	16.7	−13	7.0	8.5 1 v
162	−13°	2516	8	17.1	−13	9.9	8.1 1 v

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1913phae.proj.2152C

Wednesday September 3, 1913

B 1901.5 short.

No.	Int.	Class	Remarks.
163	3	a 2	
164	2	a 0	
165	1	a 2	
166	2	g 5	
167	3	a 0	
168	8	a 2	
169	2	K 5	
170	2	a 2	
171	1	a 3	
172	1	a 3	
173	2	F 0	
174	2	F 5	
175	2	K 0	
176	2	K 2	
177	5	G 8	
178	2	G 0	
179	1	K 0	
180	2	a 2	
181	8	a 0	
182	8	F 2	
183	10	F 0	
184	7	a 0	
185	5	B 9	
186	9	K 0	
187	4	a 0	
188	2	a 2	
189	1	K 2	

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1913phae.proj.21520

163	-13°	2517	8	17.4	-13	34.6	9.1 1 ✓
164	-13°	2518	8	17.4	-13	35.2	9.4 1 ✓
165	-13°	2519	8	17.5	-13	35.6	9.6 1 ✓
166	-13°	2524	8	17.8	-13	22.5	9.1 1 ✓
167	-13°	2525	8	18.0	-13	36.5	9.0 1 ✓
168	-14°	2503	8	17.9	-14	8.0	8.2 1 ✓
169	-14°	2508	8	18.1	-14	22.1	8.3 1 ✓
170	-14°	2513	8	18.7	-14	7.4	9.4 1 ✓
171	-13°	2538	8	19.6	-13	40.9	9.5 1 ✓
172	-13°	2537	8	19.6	-13	31.3	9.4 1 ✓
173	-13°	2541	8	19.9	-13	25.1	9.2 1 ✓
174	-13°	2540	8	19.8	-13	38.3	9.2 1 ✓
175	-13°	2542	8	20.0	-13	35.4	8.9 1 ✓
176	-13°	2548	8	20.8	-13	21.8	9.0 1 ✓
177	-14°	2532	8	21.5	-14	6.1	8.5 1 ✓
178	-13°	2557	8	22.0	-13	54.1	9.1 1 ✓
179	-14°	2542	8	22.9	-14	2.3	9.1 1 ✓
180	-14°	2545	8	23.4	-14	24.6	9.2 1 ✓
181	-14°	2548	8	23.7	-14	52.9	8.2 1 ✓
182	-14°	2552	8	24.3	-14	42.0	8.0 1 ✓
183	-14°	2564	8	25.8	-14	32.4	6.8 1 ✓
184	-14°	2572	8	26.8	-14	42.7	8.3 1 ✓
185	-14°	2569	8	26.2	-14	10.7	8.9 1 ✓
186	-13°	2583	8	25.9	-13	55.8	7.0 1 ✓
187	-13°	2582	8	25.7	-13	27.4	8.8 1 ✓
188	-13°	2575	8	25.4	-13	37.1	9.3 1 ✓
189	-13°	2572	8	24.8	-13	51.4	9.0 1 ✓

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1913phae.proj.2152C

Wednesday September 3, 1913
B1901.5 short

No.	Int.	Class	Remarks.
190	3	A2	
191	1	A2	
192	5	F5	
193	6	A0	
194	3	K0	
195	3	A0	
196	6	A0	
197	4	K5	
198	7	A0	
199	3	A3	
200	2	K0	
201	2	A0	E
202	1	A	E
203	9	A2	E
204	3	K0	
205	3	G5	
206	2	F5	
207	2	G5	
208	1	K5	
209	10+	A	
210	1	G5	
211	1	A	
212	7	A2	
213	2	A2	
214	1	G5	
215	1	A	
216	6	G5	

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1913phae.proj.2152C

190	−14°	2554	8	24.5	−14	0.9	9.0 ∧ ∨
191	−13°	2567	8	24.8	−13	~~31.5~~ 59.3	~~7.8~~ 9.4 ∨
192	−15°	2455	8	22.3	−15	2.9	8.5 ∧ ∨
193	−15°	2456	8	22.8	−15	~~23.1~~ 17.5	8.7 ∧ ∨
194	−15°	2454	8	22.2	−15	23.1	8.7 ∧ ∨
195	−15°	2458	8	22.9	−15	31.1	8.9 ∧ ∨
196	−14°	2536	8	21.7	−14	30.2	8.6 ∧ ∨
197	−15°	2441	8	20.4	−15	10.5	7.4 ∧ ∨
198	−14°	2515	8	19.1	−14	57.5	8.0 ∧ ∨
199	−14°	2511	8	18.3	−14	41.8	8.8 ∧ ∨
200	−14°	2505	8	18.0	−14	43.3	8.7 ∧ ∨
201	−8°	2474	8	37.6	−8	55.1	8.6 ∧ ∨
202	−8°	2471	8	37.1	−8	51.8	8.8 ∧ ∨
203	−9°	2630	8	35.9	−9	17.2	6.3 ∧ ∨
204	−9°	2621	8	33.9	−9	56.2	7.8 ∧ ∨
205	−9°	2613	8	32.7	−9	58.2	8.0 ∧ ∨
206	−10°	2595	8	33.4	−10	27.3	8.7 ∧ ∨
207	−11°	2413	8	31.9	−11	7.1	8.8 ∧ ∨
208	−11°	2412	8	31.7	−11	11.4	9.4 ∧ ∨
209	−11°	2411	8	31.1	−11	14.6	7.0 ∧ ∨
210	−10°	2579	8	29.8	−10	51.7	9.2 ∧ ∨
211	Approx 1855 pos.		8	29.5	−11	6.5	∧ ∨
212	−11°	2415	8	32.1	−11	36.5	8.2 ∧ ∨
213	−11°	2418	8	32.6	−11	33.8	9.5 ∧ ∨
214	−11°	2419	8	33.0	−11	20.9	9.2 ∧ ∨
215	−11°	2428	8	33.2	−11	19.0	9.8 ∧ ∨
216	−11°	2426	8	33.8	−11	24.4	7.5 ∧ ∨

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1913phae.proj.2152C

Wednesday September 3, 1913
B 1901.5 short.

No.	Dist.	Class	Remarks
217	8	a2	
218	10+	K0	
219	4	a2	
220	1	a2	
221	7	a0	
222	5	K0	
223	1	F0	
224	1	K0	
225	3	a2	
226	2	a0	
227	1	K5	
June 10.10 228	1	F	Partly superposed on 227

9
228 3 a5

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1913phae.proj.2152c

217	−11°	2425 8	33.8 −11	39.7	7.8 ↑ ↙
218	−11°	2420 8	33.2 −11	57.9	5.7 ↑ ↙
219	−12°	2632 8	34.7 −12	16.6	8.8 ↑ ↙
220	−12°	2628 8	34.1 −12	38.9	9.1 ↑ ↙
221	−13°	2640 8	33.4 −13	3.2	8.0 ↑ ↙
222	−13°	2638 8	33.4 −13	21.4	8.2 ↑ ↙
223	−12°	2623 8	33.2 −12	45.1	9.1 ↑ ↙
224	−12°	2626 8	33.9 −12	6.5	9.1 ↑ ↙
225	−11°	2429 8	35.1 −11	59.1	9.1 ↑ ↙ magn. 9.6 −11° 2430 superposed
226	−10	2606 8	34.4 −10	35.0	9.4 ↑ ↙
227	−10°	2601 8	34.1 −10	39.0	9.1 ↑ −10° 2600 & 34.1-10 37.2 superposed. 9.3
228	−10°	2603 8	34.2 −10	33.4	9.3 ↑ ↙

Identified by amc. Dec. 3, 1913

Checked Jan. 3. 1914. DW

Cards made out by G. R. B.

Cards checked by amc.

229 −14° 2493 8 15.5 − 14 13 9.1 199 on B20896

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1913phae.proj.2152c

Wednesday September 3, 1913

June 10.15

B1906 short.

No.	Int.	Class	Remarks
1	5	A2	
2	1	K0	
3	2	F8	
4	3	B9	
5	4	K0	
6	2	G5	
7	6	Mb	
8	7	K5	
9	2	A0	
10	3	F2	
11	1	G5	
12	5	F0	
13	1	K0	
14	2	G5	
15	2	F0	
16	4	F5	
17	6	K0	
18	6	K2	
19	1	F0	
20	3	K0	
21	1	K	
22	2	F0	
23	5	A2	
24	1	A5	
25	1	K0	
26	5	F5	
27	2	F5	

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1913phae..proj..21526

1	−10°	2611	8	35.5	−10	30.3	8.3	1 ✓
2	−10°	2612	8	35.8	−10	54.2	9.1	1 ✓
3	−10°	2622	8	37.2	−10	35.4	8.8	1 ✓
4	−10°	2619	8	37.0	−10	2.2	8.5	1 ✓
5	−9°	2648	8	39.0	−9	43.3	7.6	1 ✓
6	−9°	2652	8	39.6	−9	42.1	8.6	1 ✓
7	−10°	2635	8	39.2	−10	18.1	6.9	1 ✓
8	−10°	2634	8	39.2	−10	28.8	6.0	1 ✓
9	−10°	2638	8	39.5	−10	25.2	9.3	1 ✓
10	−10°	2641	8	40.2	−10	14.9	8.6	1 ✓
11	−10°	2642	8	40.2	−10	21.3	8.9	1 ✓
12	−10°	2636	8	39.3	−10	51.9	8.3	1 ✓
13	−11°	2458	8	40.3	−11	1.2	9.1	1 ✓
14	−10°	2644	8	41.0	−10	48.9	9.1	1 ✓
15	−10°	2646	8	41.4	−10	41.0	9.2	1 ✓
16	−10°	2650	8	42.1	−10	19.9	8.5	1 ✓
17	−10°	2651	8	42.4	−10	21.2	7.0	1 ✓
18	−10°	2654	8	42.5	−10	29.2	7.5	1 ✓
19	−10°	2649	8	42.1	−10	49.1	9.4	1 ✓
20	−10°	2658	8	43.3	−10	36.2	8.4	1 ✓
21	−10°	2659	8	43.4	−10	49.1	9.3	1 ✓
22	−9°	2671	8	43.1	−9	50.5	8.8	1 ✓
23	−9°	2679	8	45.5	−9	24.8	8.3	1 ✓
24	−8°	2517	8	46.8	−8	53.2	9.0	1 ✓
25	−8°	2520	8	47.3	−8	40.0	8.3	1 ✓
26	−10°	2668	8	44.9	−10	36.2	8.4	1 ✓
27	−10°	2665	8	44.6	−10	54.7	8.9	1 ✓

−9° 26 ~~80~~ 78 8 45.4-9 21.5
magn 8.9 superposed.

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1913phae.proj.2152C

Wednesday September 3, 1913

B 19016 short

No.	Int.	Class	Remark.
28	2	K2	
29	4	F0	
30	1	G0	
31	8	G5	
32	2	K5	
33	1	G5	
34	1	K2	
35	7	K5	
36	2	A2	
37	5	G5	
38	5	K0	
39	7	K5	
40	9	A0	Another star superposed on prec. side, probably K
41	1	K5	
42	4	G0	
43	3	F5	
44	7	B9	
45	1	K5	
46	3	K5	
47	2	G5	
48	1	K0	
49	1	K5	
50	1	A5	
51	3	K0	
52	1	F	
53	1	G	
54	2	A2	

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1913phae.proj.2152c

28	−10°	2672	8	45.3	−10	42.9	8.7	1 ✓
29	−11°	2480	8	44.8	−11	22.8	9.0	1 ✓
30	−11°	2482	8	45.6	−11	24.2	9.2	1 ✓
31	−11°	2483	8	45.9	−11	10.2	8.0	1 ✓
32	−10°	2675	8	46.0	−10	59.6	8.8	1 ✓
33	−10°	2676	8	46.1	−10	46.1	9.3	1 ✓
34	−10°	2677	8	46.3	−10	40.7	8.9	1 ✓
35	−10°	2678	8	46.5	−10	50.7	7.2	1 ✓
36	−10°	2682	8	46.9	−10	10.4	9.3	1 ✓
37	−10°	2685	8	47.2	−10	22.5	7.9	1 ✓
38	−10°	2690	8	48.0	−10	26.1	7.9	1 ✓
39	−10°	2688	8	47.7	−10	49.4	6.8	1 ✓
40	−10°	2692	8	48.3	−10	49.0	7.1	1 ✓ −10° 2691 magn. 9.7° superposed
41	−11°	2493	8	48.3	−11	4.0	8.9	1 ✓
42	−11°	2498	8	49.0	−11	20.2	9.0	1 ✓
43	−11°	2500	8	49.4	−11	12.7	9.1	1 ✓
44	−10°	2694	8	49.1	−10	35.9	8.1	1 ✓
45	−10°	2693	8	49.0	−10	20.4	8.4	1 ✓
46	−10°	2697	8	49.6	−10	32.8	8.1	1 ✓
47	−10°	2699	8	49.8	−10	33.1	8.9	1 ✓
48	−10°	2707	8	51.1	−10	25.0	8.9	1 ✓
49	−9°	2717	8	51.9	−9	48.8	8.6	1 ✓
50	−10°	2710	8	51.7	−10	34.2	9.3	1 ✓
51	−10°	2709	8	51.7	−10	46.2	8.3	1 ✓
52	−10°	2708	8	51.4	−10	55.0	9.3	1 ✓
53	−10°	2703	8	50.8	−10	50.0	9.4	1 ✓
54	−11°	2513	8	52.2	−11	9.7	9.4	1 ✓

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1913phae.proj.2152C

Wednesday September 3, 1913

B 1916 shot

No.	Dec.	class	Remark
55	6	F5	
56	3	K5	
57	8	F0	
58	4	K0	
59	4	K2	
60	6	A2	
61	5	F8	
62	1	K0	
63	3	G5	
64	5	F0	
65	2	K0	
66	2	A2	
67	7	A0	
68	5	F8	
69	3	F8	
70	21	K0	
71	10	A2	
72	6	F5	
73	1	K0	
74	3	A2	
75	3	A3	
76	3	F8	
77	1	K5	
78	4	A5	
79	2	K2	
80	5	K0	
81	3	Ma	

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1913phae.proj.2152c

55	−11°	2520	8	53.2	−11	53.9	8.0
56	−11°	2521	8	53.4	−11	40.7	7.8
57	−11°	2523	8	53.6	−11	34.4	7.3
58	−11°	2528	8	54.6	−11	8.4	8.5
59	−10°	2720	8	54.5	−10	40.2	8.0
60	−10°	2722	8	54.7	−10	41.6	8.5
61	−10°	2724	8	55.4	−10	19.9	8.4
62	−10°	2716	8	53.7	−10	34.4	8.9
63	−11°	2539	8	56.7	−11	20.9	9.0
64	−11°	2537	8	56.7	−11	59.0	8.3
65	−12°	2777	8	57.4	−12	15.9	8.8
66	−12°	2778	8	57.7	−12	28.7	9.2
67	−12°	2779	8	57.8	−12	41.1	8.2
68	−12°	2784	8	58.3	−12	31.4	8.3
69	−12°	2785	8	58.4	−12	20.4	8.5
70	−12°	2790	8	58.8	−12	20.4	8.7
71	−11°	2432	8	35.3	−11	27.1	6.8
72	−11°	2437	8	36.2	−11	54.0	7.8
73	−11°	2441	8	37.1	−11	57.0	9.2
74	−11°	2444	8	37.4	−11	55.2	8.8
75	−12°	2656	8	37.7	−12	7.3	8.8
76	−12°	2664	8	38.9	−12	8.4	8.8
77	−12°	2668	8	39.6	−12	3.1	9.0
78	−11°	2459	8	40.4	−11	43.0	8.7
79	−11°	2452	8	39.1	−11	0.0	8.8
80	−12°	2663	8	38.9	−12	45.4	8.0
81	−12°	2659	8	38.3	−12	53.0	8.3

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1913phae.proj.2152c

Wednesday September 3, 1913
B 19016 short

No.	Dur.	Class	Remarks
82	3	Bq	
83	1	K	
84	1	K0	
85	1	A2	
86	3	A2	
87	3	K5	
88	3	A3	
89	8	A0	
90	2	F0	
91	4	F8	
92	3	G0	
93	10+	K2	Burned out.
94	5	F8	
95	3	F0	
96	2	K0	
97	8	A0	
98	1	K5	
99	4	F0	
100	2	F0	
101	1	K5	
102	3	A2	
103	5	F8	
104	8	A0	
105	4	A0	
106	1	K	
107	1	K2	
108	2	F0	

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1913phae.proj.2152c

82	−12°	2657	8	37.7	−12	40.5	9.0 ↑ ∪
83	−12°	2658	8	37.7	−12	28.1	9.1 ↑ ∪
84	−12°	2654	8	37.3	−12	29.7	9.1 ↑ ∪ −12° 2652 9.8 Superposed
85	−12°	2650	8	37.2	−12	20.4	9.1 ↑ ∪
86	−12°	2644	8	36.8	−12	29.8	9.1 ↑ ∪ magn. 9.3 −12° 2646 Superposed
87	−12°	2636	8	35.5	−12	46.7	8.1 ↑ ∪
88	−13°	2653	8	35.4	−13	1.0	8.4 ↑ ∪
89	−13°	2661	8	36.7	−13	31.2	7.7 ↑ ∪
90	−13°	2668	8	38.6	−13	35.3	8.5 ↑ ∪
91	−13°	2670	8	39.3	−13	50.6	8.2 ↑ ∪
92	−13°	2676	8	40.2	−13	35.8	8.5 ↑ ∪
93	−13°	2673	8	39.5	−13	1.2	4.8 ↑ ∪
94	−12°	2671	8	40.3	−12	32.2	8.3 ↑ ∪
95	−12°	2674	8	40.6	−12	41.0	9.0 ↑ ∪
96	−12°	2672	8	40.5	−12	56.9	8.7 ↑ ∪
97	−12°	2675	8	40.7	−12	59.5	8.0 ↑ ∪
98	−13°	2686	8	41.8	−13	8.1	8.6 ↑ ∪
99	−12°	2689	8	42.2	−12	52.5	8.5 ↑ ∪
100	−13°	2690	8	42.4	−13	3.8	9.0 ↑ ∪
101	−12°	2688	8	42.2	−12	28.8	8.7 ↑ ∪
102	−12°	2685	8	42.1	−12	17.7	9.2 ↑ ∪
103	−12°	2686	8	42.2	−12	11.7	8.5 ↑ ∪
104	−11°	2468	8	42.8	−11	55.2	8.2 ↑ ∪ ~~−11° 2470 Superposed~~ magn. 9.4
105	−11°	2470	8	43.1	−11	38.5	9.4 ↑ ∪ ~~(−11° 2469 magn. 9.0)~~ −11° 2471 magn. 9.6 Superposed
106	−11°	2469	8	43.0	−11	33.0	9.0 ↑ ∪ ~~−11° 2470 magn. 9.4 Superposed!~~
107	−11°	2473	8	43.8	−11	47.8	9.1 ↑ ∪
108	−11°	2476	8	44.3	−11	46.4	9.3 ↑ ∪

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1913phae.proj.2152c

Wednesday September 3, 1913

Bigelow shots

No.	Int.	class	Remarks
109	1.	b_5	
110	1	f_0	
111	7	a_2	
112	7	f_0	
113	8	a_0	
114	2	b_5	
115	7	K_0	
116	2	K_5	
117	7	b_0	
118	2	K_0	
119	5	b_0	
120	2	K_0	
121	1	K_5	
122	1	b_5	
123	3	a_2	
124	1	f_0	
125	2	a_2	
126	2	K_0	
127	3.	a_2	
128	4	a_0	
129	3	K_2	
130	4	f_2	
131	4	a_0	
132	1	b_5	
133	1	K	
134	2	g_5	
135	2	b_5	

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1913phae.proj.2152c

109	−11°	2479	8	44.7	−11	41.3	9.1	1 v
110	−12°	2702	8	43.5	−12	11.8	9.1	^ v
111	−12°	2704	8	43.6	−12	46.0	8.4	^ v
112	−13°	2695	8	44.1	−13	8.5	8.5	^ v
113	−13°	2696	8	44.3	−13	11.6	7.3	1 v
114	−12°	2713	8	45.4	−12	48.4	9.0	^ v
115	−12°	2716	8	45.6	−12	41.0	6.2	1 v
116	−12°	2720	8	45.8	−12	30.3	8.5	1 v
117	−12°	2714	8	45.4	−12	16.1	7.0	^ v
118	−12°	2721	8	46.2	−12	39.6	9.0	^ v
119	−12°	2724	8	47.0	−12	44.4	8.5	^ v
120	−13°	2704	8	46.9	−13	17.5	8.4	^ v
121	−12°	2727	8	47.9	−12	51.1	9.2	1 v
122	−12°	2729	8	48.5	−12	46.0	8.9	1 v
123	−12°	2730	8	48.5	−12	17.3	8.7	^ v
124	−12°	2725	8	47.1	−12	18.2	9.3	^ v
125	−11°	2488	8	47.1	−11	23.0	9.1	^ v
126	−11°	2494	8	48.4	−11	32.3	9.1	1 v
127	−11°	2495	8	48.5	−11	39.1	9.1	^ v
128	−11°	2503	8	50.0	−11	51.9	8.9	1 v
129	−12°	2738	8	50.1	−12	16.2	8.5	1 v
130	−12°	2742	8	50.45	−12	19.3	8.6	^ v
131	−12°	2749	8	50.9	−12	31.9	8.9	^ v
132	−12°	2751	8	51.8	−12	36.6	8.8	1 v
133	−11°	2509	8	51.0	−11	49.4	9.0	^ v
134	−12°	2757	8	52.9	−12	40.3	9.1	^ v
135	−12°	2759	8	53.4	−12	50.7	8.8	1 v

−12° 2731 magn 9.7 superposed.

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1913phae.proj.2152c

Wednesday September 3, 1913

B1916 short

No.	Dur.	Class	Remark
136	7	A2	
137	5	F5	
138	5	A3	Comp? solar lines strong for this class.
139	6	F0	
140	7	A5	
141	3	K5	
142	4	K0	
143	4	G0	
144	8	A0	
145	1	K0	
146	3	K2	
147	5	K2	
148	5	K5	
149	3	K0	
150	2	A3	
151	7	A2	
152	7	A2	
153	2	K0	
154	7	A2	
155	2	G0	
156	1	K0	
157	5	A3	
158	2	A3	
159	2	G5	
160	6	B9	
161	5	F0	
162	4	K5	

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1913phae.proj.2152c

136	−12°	2760	8	53.8	−12	36.0	8.2	1	∪
137	−12°	2762	8	53.9	−12	15.2	8.5	1	∪
138	−13°	2737	8	53.2	−13	44.4	8.7	1	∪
139	−13°	2735	8	53.2	−13	58.0	8.5	1	∪
140	−14°	2722	8	53.5	−14	15.2	8.3	1	∪
141	−14°	2720	8	52.9	−14	26.8	8.0	1	∪
142	−14°	2726	8	54.3	−14	49.5	8.4	1	∪
143	−14°	2729	8	54.8	−14	36.8	8.5	1	∪
144	−13°	2743	8	54.7	−13	55.6	8.2	∧	∪
145	−13°	2744	8	54.8	−13	51.5	9.1	∧	∪
146	−14°	2732	8	56.2	−14	18.1	8.5	1	∪
147	−13°	2751	8	56.8	−13	51.8	7.9	∧	∪
148	−13°	2746	8	56.3	−13	26.0	7.7	1	∪
149	−13°	2753	8	57.4	−13	42.8	8.7	∧	∪
150	−13°	2759	8	58.4	−13	44.8	9.0	∧	∪
151	~~−13~~ −14°	~~2763~~ 2741	8	~~59.3~~ 58.8	~~−13~~ −14	~~57.8~~ 0.3	~~9.1~~ 8.5	1	∪
152	−13°	2692	8	42.8	−13	29.8	8.3	∧	∪
153	−13°	2694	8	43.8	−13	47.0	8.8	∧	∪
154	−14°	2669	8	43.7	−14	4.3	7.8	1	∪
155	−14°	2675	8	44.3	−14	32.6	9.0	1	∪
156	−14°	2681	8	45.4	−14	31.4	9.0	1	∪
157	−14°	2688	8	46.0	−14	20.1	8.5	1	∪
158	−13°	2700	8	45.7	−13	47.4	9.2	∧	∪
159	−13°	2706	8	47.7	−13	57.9	9.1	∧	∪
160	−14°	2700	8	48.1	−14	33.8	8.5	1	∪
161	−14°	2704	8	48.7	−14	4.5	8.5	1	∪
162	−13°	2713	8	48.6	−13	51.1	8.0	1	∪

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1913phae.proj.2152C

Wednesday September 3, 1913

B 19016 short

No.	Int	class	Remark
163	2	F8	
164	1	G0	
165	1	F0	
166	7	A2	
167	7	B0	
168	2	G5	
169	1	G	
170	1	K2	
171	1	G	
172	2	G5	
173	3	K0	
174	3	G5	
175	3	A3	
176	3	F5	
June 10,40	177	2	F5
" 10.32	178	2	A0
Sept. 12. mab.	179	8	K2
	180	1	Ma
	181	8	A5
	182	2	F0
	183	2	G5
	184	6	F0
	185	1	K2
	186	2	K0
	187	2	K2
	188	1	G0
	189	2	F8

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1913phae.proj.2152c

163	−13°	2711	8	48.5	−13	53.7	9.2 ∧ ∨
164	−13°	2708	8	48.1	−13	25.5	9.2 ∧ ∨
165	−13°	2710	8	48.3	−13	30.5	9.4 ∧ ∨
166	−13°	2714	8	48.9	−13	29.4	8.3 ∧ ∨
167	−13°	2718	8	49.4	−13	21.1	8.2 ∧ ∨
168	−13°	2719	8	49.6	−13	22.9	9.1 ∧ ∨
169	−13°	2720	8	49.8	−13	10.1	9.0 ∧ ∨
170	−13°	2719 (21)	8	50.0	−13	8.3	9.0 ∧ ∨
171	−13°	2715	8	49.1	−13	5.2	9.0 ∧ ∨
172	−13°	2717	8	49.4	−13	55.6	8.9 ∧ ∨
173	−14°	2709	8	50.4	−14	0.8	8.9 ∧ ∨
174	−13°	2728	8	51.5	−13	48.4	9.0 ∧ ∨
175	−14°	2712	8	51.2	−14	25.4	8.9 ∧ ∨
176	−14°	2715	8	52.0	−14	25.9	9.0 ∧ ∨
177	−14°	2714	8	51.4	−14	49.0	9.1 ∧ ∨
178	−15°	2649	8	50.8	−15	2.7	9.4 ∧ ∨
179	−15°	2658	8	52.2	−15	25.7	7.0 ∧ ∨
180	−15°	2664	8	53.6	−15	13.1	8.6 ∧ ∨
181	−15°	2665	8	53.8	−15	35.5	7.9 ∧ ∨
182	−15°	2668	8	54.3	−15	35.2	8.9 ∧ ∨
183	−15°	2678	8	55.9	−15	5.1	9.0 ∧ ∨
184	−14°	2733	8	56.4	−14	41.0	8.3 ∧ ∨
185	−14°	2734	8	56.4	−14	53.2	9.1 ∧ ∨
186	−13°	2733	8	52.7	−13	14.2	8.9 ∧ ∨
187	−13°	2730	8	52.0	−13	33.7	9.1 ∧ ∨
188	−13°	2724	8	51.1	−13	2.0	9.3 ∧ ∨
189	−12°	2772	8	56.2	−12	30.4	9.1 ∧ ∨

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1913phae.proj.2152c

Friday, Sept. 12, 1913

B 19016

No	Int.	Class	Remarks.
190	1	F8	
191	1	G5	
192	1	F8	
193	1	G5	
194	1	K	
195	1	K0	
196	2	A2	
197	1	K0	
198	1	K0	
199	1	F5	another star super. at north Not in Catalogue.
200	2	F8	
201	1	K2	
202	1	K5	
203	1	A0	
204	2	A2	
205	1	G5	
206	5	A0	
207	7	F2	
208	1	K2	
209	2	K2	
210	3	K2	
211	2	F8	
212	8	F8	
213	4	A2	
214	2	K5	
215	2	F5	
216	2	F2	

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1913phae.proj.2152c

190	−12°	2771	8	55.9	−12	11.8	9.0	∧ ∨
191	−11°	2526	8	54.2	−11	54.8	9.0	∧ ∨
192	−11°	2524	8	53.7	−11	45.0	9.2	∧ ∨
193	−11°	2510	8	51.7	−11	22.9	9.3	∧ ∨
194	−11°	2511	8	51.7	−11	7.9	9.6	∧ ∨
195	−11°	2481	8	45.0	−11	56.5	9.1	∧ —
196	−12°	2719	8	45.8	−12	51.6	9.4	∧ ∨
197	−12°	2710	8	45.1	−12	45.2	9.1	∧ ∨
198	−12°	2703	8	43.6	−12	18.8	9.4	∧ ∨
199	−12°	2694	8	42.6	−12	11.9	9.4	∧ ∨
200	−12°	2692	8	42.5	−12	20.4	9.4	∧ ∨
201	−12°	2687	8	42.2	−12	7.0	9.2	∧ ∨
202	−13°	2684	8	41.2	−13	26.0	9.0	∧ —
203	−14°	2653	8	41.1	−14	11.4	9.4	∧ ∨
204	−14°	2661	8	42.2	−14	18.3	9.1	∧ ∨
205	−14°	2666	8	42.9	−14	9.4	9.1	∧ ∨
206	−15°	~~2691~~ 2591	8	40.7	−15	16.2	8.5	∧ ∨
207	−13°	2644	8	34.2	−13	46.9	8.0	∧ ∨
208	−13°	2648	8	34.8	−13	14.5	8.9	∧ ∨
209	−13°	2649	8	35.0	−13	17.9	8.8	∧ ∨
210	−13°	2651	8	35.1	−13	24.3	8.9	∧ ∨
211	−13°	2652	8	35.3	−13	18.8	9.2	∧ ∨
212	−15°	2597	8	42.5	−15	1.8	7.2	∧ ∨
213	−15°	2599	8	42.6	−15	14.8	9.0	∧ ∨
214	−15°	2600	8	42.8	−15	30.2	8.3	∧ ∨
215	−14°	2665	8	42.8	−14	56.4	9.0	∧ ∨
216	−14°	2670	8	43.7	−14	55.4	9.3	∧ ∨

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1913phae.proj.2152C

Friday Sept. 12, 191
B19016

No	Int.	Class	Remarks
217	1	F5	Partly super. on 218
218	3	K0	
219	1	K0	
220	7	A0	
221	2	A	Partly super. on 222
222	6	A2	
223	9	A0	
224	1	G5	
225	3	Ma	
226	5	A0	
227	4	K0	
228	4	F8	
229	7	K2	
230	1	K2	
231	8	K0	
232	2	G0	
233	3	F8	
234	9	K0	
235	2	G5	
236	1	A	
237	3	F5	
238	3	K2	
239	1	A	E
240	10	K0	E
241	3	A0	E
242	4	A3	
243	7	K0	

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1913phae.proj.2152c

217 −15°	2605 8	43.7 −15	15.7	9.3	∧ ∨
218 −15°	2606 8	43.8 −15	15.9	9.0	∧ ∨
219 −15°	2604 8	43.7 −15	31.6	9.0	∧ ∨
220 −15°	2607 8	44.1 −15	30.9	8.1	∧ ∨
221 −15°	2608 8	44.9 −15	17.1	9.3	∧ ∨
222 −15°	2609 8	44.9 −15	22.3	9.0	∧ ∨
223 −15°	2616 8	45.8 −15	12.7	7.8	∧ ∨
224 −14°	2676 8	44.5 −14	47.7	9.1	∧ ∨
225 −14°	2677 8	44.7 −14	51.4	8.5	∧ ∨
226 −14°	2689 8	46.0 −14	58.2	8.8	∧ ∨
227 −14°	2691 8	46.6 −14	50.6	8.3	∧ ∨
228 −14°	2695 8	46.9 −14	50.2	9.0	∧ ∨
229 −15°	2626 8	47.2 −15	2.6	8.2	∧ ∨
230 −14°	2696 8	47.2 −14	41.4	9.0	∧ ∨
231 −15°	2631 8	48.2 −15	14.2	7.5	∧ ∨
232 −15°	2636 8	48.8 −15	8.6	9.3	∧ ∨
233 −14°	2706 8	48.9 −14	58.5	9.0	∧ ∨
234 −14°	2707 8	49.1 −14	53.4	6.5	∧ ∨
235 −15°	2641 8	49.5 −15	12.6	9.0	∧ ∨
236 −15°	2638 8	49.0 −15	8.6	9.6	∧ ∨
237 −15°	2635 8	48.6 −15	36.0	8.5	∧ ∨
238 −15°	2642 8	49.6 −15	36.4	8.5	∧ ∨
239 −15°	2644 8	49.7 −15	35.0	9.5	∧ ∨
240 −16°	2639 8	49.8 −16	9.1	6.2	∧ ∨
241 −16°	2640 8	50.1 −16	28.0	8.8	∧ ∨
242 −15°	2654 8	51.5 −15	57.3	8.8	∧ ∨
243 −16°	2653 8	52.0 −16	11.6	7.1	∧ ∨

−15° 2637 8 48.9 35 4.1 magn. 9.7 superposed

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1913phae.proj.2152C

Friday Sept. 12, 1913
B 19016

	№	Int.	Class	Remarks
	244	8	K0	
	245	3	A2	
	246	1	F5	
10.44	247	1	F5	

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1913phae.proj.2152c

244 − 15°	2659 8	52.5 − 15	56.5	7.7 1 ⌣
245 − 15°	2627 8	47.2 − 15	34.1	9.0 1 ⌣
246 − 15°	2623 8	46.9 − 15	12.6	9.5 1 ⌣
247 − 15°	2628 8	47.5 − 15	24.2	9.2 ∧ ⌣

Identified by Amc. Jan. 12, 1914
Checked January 15th 1914 H.D.C.
Cards made out by G.R.B.
Cards checked by Amc.

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1913phae.proj.2152C

Tuesday October 7, 1913

10.40

B 3967 9 for faint stars

No.	Dist.	Class	Remark
1	24	Ko	
2	2	G5	
3	1	G5	
4	1	G5	
5	2	G0	
6	1	K2	
7	1	K5	
8	1	K5	
9	2	G0	
10	1	G	
11	2	Ko	
12	2	K2	
13	1	K5	
14	1	K	
15	1	Ko	
16	2	F8	
17	1	G	Partly superposed on 16
18	2	G0	
19	1	G	
20	1	G	
21	2	G0	
22	1	Ko	
23	1	G0	
24	2	G0	
25	2	F5	
26	2	G5	
27	3	F	

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1913phae.proj.2152c

1	−45°	488	1	24.2	−45	27.3	9.3 ✓
2	−45°	483	1	22.7	−45	43.6	9.0 ✓
3	−45°	472	1	20.9	−45	20.6	9.3 ✓
4	−45°	456	1	17.8	−45	19.6	9.4 ✓
5	−45°	447	1	16.4	−45	18.8	9.4 ✓
6	−45°	448	1	16.6	−45	4.8	9.4 ✓
7	−44°	380	1	15.6	−44	50.2	9.2 ✓
8	−44°	389	1	17.2	−44	5.0	9.1 ✓
9	−45°	419	1	10.4	−45	46.2	9.3 ✓
10	−46°	350	1	10.1	−46	6.5	9.6 ✓
11	−46°	349	1	10.0	−46	29.4	9.4 ✓
12	−46°	344	1	9.2	−46	27.9	9.3 ✓
13	−46°	333	1	7.2	−46	18.8	9.2 ✓
14	−45°	384	1	4.9	−45	54.0	9.8 ✓
15	−46°	320	1	3.4	−46	17.2	9.6 ✓
16	−45°	375	1	3.6	−45	10.9	9.0 ✓
17	−45°	376	1	3.6	−45	6.4	9.6 ✓
18	−45°	368	1	2.2	−45	34.0	9.6 ✓
19	−45°	362	1	1.3	−45	18.2	9.7 ✓
20	−45°	366	1	1.9	−45	15.0	9.7 ✓
21	−45°	364	1	1.7	−45	2.8	9.4 ✓
22	−44°	308	1	2.0	−44	48.8	9.3 ✓
23	−44°	305	1	0.7	−44	55.4	9.4 ✓
24	−45°	344	0	58.5	−45	14.2	9.3 ✓
25	−44°	296	0	58.0	−44	50.2	9.7 ✓
26	−45°	328	0	55.5	−45	58.5	9.1 ✓
27	−45°	322	0	55.0	−45	59.7	9.0 ✓

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Tuesday October 7, 1913
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Hr.	Dur.	Class	Remarks
28	2	G5	
29	3	G5	
30	1	G	
31	1	G5	
32	1	F8	
33	1	F8	
34	3	K0	
35	2	G5	
36	2	G	E
37	2	F8	E
38	1	K0	
39	1	G	
40	1	G	
41	1	F8	
42	2	K0	
43	1	G0	
44	1	G5	
45	1	G5	
46	1	K2	
47	2	Ma	E
48	1	Ma	
49	2	G0	
50	1	G	
51	1	K0	
52	2	G5	
53	2	G5	
54	2	K0	

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28	−46°	281	0	55.0	−46	13.8	9.3 ✓
29	−45°	319	0	54.5	−45	46.5	9.1 ✓
30	−45°	306	0	53.2	−45	42.2	9.3 ✓
31	−44°	273	0	54.1	−44	53.0	9.6 ✓
32	−44°	274	0	54.2	−44	31.2	9.7 ✓
33	−44°	263	0	52.9	−44	36.8	9.8 ✓
34	−43°	261	0	49.4	−43	43.8	8.4 ✓
35	−43°	252	0	47.9	−43	49.5	9.0 ✓
36	−44°	229	0	47.3	−44	26.7	9.4 ✓
37	−43°	461	1	25.1	−43	20.9	9.1 ✓
38	−43°	433	1	20.6	−43	31.2	9.0 ✓
39	−41°	304	1	6.9	−41	57.5	9.1 ✓
40	−42°	421	1	6.5	−42	11.2	9.4 ✓
41	−42°	411	1	5.5	−42	2.0	9.3 ✓
42	−41°	293	1	4.6	−41	17.3	9.0 ✓
43	−41°	302	1	6.4	−41	36.2	8.5 ✓
44	−41°	301	1	6.2	−41	24.2	9.0 ✓
45	−41°	303	1	6.6	−41	12.0	8.9 ✓
46	−41°	310	1	8.2	−41	6.0	8.9 ✓
47	−38°	418	1	6.3	−38	36.0	8.5 ✓
48	−40°	229	0	56.7	−40	23.8	8.5 ✓
49	−40°	234	0	58.1	−40	58.7	9.2 ✓
50	−40°	222	0	54.9	−40	13.1	9.3 ✓
51	−41°	255	0	55.7	−41	33.8	9.0 ✓
52	−41°	252 48	0	~~55.5~~ 54.7	−41	~~44.4~~ 47.3	~~8.9~~ 9.0 ✓
53	−42°	350	0	55.1	−42	8.0	9.0 ✓
54	−42°	361	0	56.2	−42	12.9	8.5 ✓

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	Nos.	Dist.	Class	Remarks
	55	2	G0	
	56	1	K	
	57	2	K2	
	58	1	G0	
	59	1	G5	
	60	2	K0	
	61	2	G5	
	62	1	K	
	63	3	K0	
	64	2	K0	
	65	2	G5	
	66	2	K0	
	67	2	G5	
	68	1	K0	
	69	4	K0	
	70	2	K5	
	71	2	G0	
	72	2	F8	
10.50	73	1	K0	
10.55	74	1	G0	
	75	2	F8	
	76	1	G0	The preceding of two.
	77	2	F8	E
	78	1	G5	
	79	2	G0	
1	80	2	K0	E
10.58	81	1	G5	

(Cont. in Bk. 87, P. 218)

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55	-42°	364	0	56.6	-42	47.8	9.2 ✓
56	-42°	357	0	56.0	-42	47.6	9.2 ✓
57	-42°	312	0	49.3	-42	39.3	9.0 ✓
58	-42°	322	0	51.2	-42	12.6	9.2 ✓
59	-41°	243	0	52.0	-41	28.8	9.3 ✓
60	-42°	~~314~~ 364	0	48.1	-42	1.5	8.9 ✓
61	-42°	~~317~~ 367	0	48.4	-42	7.4	9.0 ✓
62	-41°	236	0	49.8	-41	40.8	9.0 ✓
63	-43°	233	0	44.5	-43	47.7	9.1 ✓
64	-44°	224	0	45.6	-44	16.2	9.5 ✓
65	-44°	225	0	45.7	-44	26.7	9.2 ✓
66	-47°	289	0	53.2	-47	11.4	8.8 ✓
67	-47°	294	0	53.8	-47	17.4	8.9 ✓
68	-46°	295	0	58.7	-46	58.4	9.2 ✓
69	-46°	307	1	1.0	-46	35.5	8.4 ✓
70	-47°	371	1	10.7	-47	29.8	9.0 ✓
71	-42°	398	1	3.4	-42	54.2	9.4 ✓
72	-43°	337	1	3.4	-43	40.3	8.8 ✓
73	-44°	320	1	3.4	-44	26.4	9.1 ✓
74	-44°	407	1	22.1	-44	34.7	9.1 ✓
75	-44°	455	1	30.8	-44	43.6	9.3 ✓
76	-44°	448	1	29.8	-44	11.2	9.0 ✓
77	-46°	449	1	32.2	-46	18.9	9.2 ✓
78	-42°	540	1	27.6	-42	52.5	8.2 ✓
79	-43°	480	1	29.1	-43	22.7	9.1 ✓
80	-41°	421	1	29.0	-41	28.2	8.5 ✓
81	-40°	326	1	17.9	-40	53.0	9.1 ✓

Identified by J.C.M. Oct. 8, 1913 Cards made with by G.R.B.
Checked by ANC. Dec. 4, 1913 Cards checked by ANC

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