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## **Project PHaEDRA- Annie Jump Cannon 36**

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Dec 10, 1911

Time 10:23 I37366

[[4 column table]]

No. | ~~No~~ | Class | Int. | Remark |

1 | B | 6 | On edge. cannot subdivide

2 | K0 | 3 |

3 | F8 | 5 |

4 | A0 | 8 |

5 | A0 | 3 |

6 | B5 | 4 | E Sp. partly cut off |

7 | B8 | 3 |

8 | F5 | 2 |

9 | A0 | 2 |

10 | B9 | 5 |

11 | A2 | 3 |

12 | K0 | 3 |

13 | G5 | 2 |

14 | F? | 1 | Omit unless confirmed |

15 | K5 | 2 |

16 | F5 | 3 |

17 | K0 | 3 |

18 | F8 | 2 |

19 | B9 | 5 |

20 | B9 | ~~5~~ | 4 |

21 | K0 | 3 |

2 | ~~3~~ | 2 | A2 | 4 |2 | ~~4~~ | 3 | G5 | 3 |2 | ~~5~~ | 4 | A2 | 2 |

25 | F0 | 7 |

2 | ~~7~~ | 6 | A0 | 2 |2 | ~~7~~ | K2 | 2 |

28 | G | 3 |

3

Cards made out

[[5 column table]]

1 | +48° 1339 | 5 54 48.8 | +48 15.4 | 6.8 |

2 | +47° 1237 | 5 52 6.8 | +47 58.0 | 7.5 |

3 | +47° 1236 | 5 51 44.7 | +47 47.7 | 6.7 |

4 | +47° 1227 | 5 49 58.1 | +47 52.0 | 6.0 |

5 | +48° 1330 | 5 49 16.8 | +48 12.6 | 8.3 |

6 | +46° 1075 | 5 48 43.1 | +46 30.0 | 7.0 |

7 | +46° 1074 | 5 48 28.6 | +46 53.9 | 7.9 |

8 | +46° 1073 | 5 47 5.0 | +46 39.8 | 7.8 |

9 | +47° 1220 | 5 47 29.3 | +47 23.1 | 8.8 |

10 | +47° 1214 | 5 45 25.6 | +47 40.8 | 7.3 |

11 | +47° 1211 | 5 43 57.0 | +47 5.4 | 7.8 |

12 | +46° 1060 | 5 41 31.2 | +46 45.2 | 7.5 |

The image shows an open notebook with two pages of handwritten data. The left page is numbered '2' and the right page is numbered '3'. The handwriting is in cursive and includes various numerical values and symbols, likely representing celestial coordinates and magnitudes. The notebook has a light-colored cover and the pages are slightly aged.

13	+47° 1206	5 41 38.9	+47 22.6	8.5	
14	+47° 1201	5 39 43.1	+47 4.8	8.7	+47° 1199 superposed?
15	+47° 1200	5 39 39.6	+47 25.4	8.2	
16	+47° 1196	5 38 33.2	+47 48.6	8.4	
17	+46° 1052	5 37 24.6	+46 39.4	6.5	
18	+46° 1051	5 36 58.7	+46 55.0	8.0	
19	+47° 1194	5 35 57.1	+47 23.6	7.5	
20	+47° 1193	5 35 25.7	+47 51.1	7.5	
21	+47° 1189	5 32 52.7	+47 38.3	7.1	
22	+48° 1297	5 30 43.7	+48 22.4	7.0	
23	+47° 1180	5 26 20.7	+47 51.1	7.2	
24	+48° 1290	5 26 11.3	+48 8.2	9.2	
25	+47° 1178	5 25 20.3	+47 38.7	6.0	
26	+47° 1176	5 24 59.2	+47 52.8	8.8	
27	+47° 1174	5 24 38.4	+47 58.7	7.5	
28	+48° 1283	5 22 39.8	+48 11.6	7.5	

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Dec. 10, 1911 (Cont)

I 37366

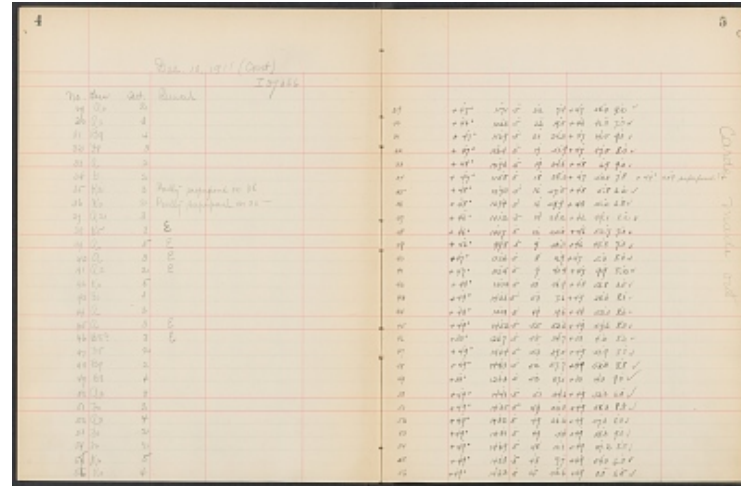
[[4 Columned Table]]  
No. | Class | Int. | Remark |

29	A0	2	
30	A0	3	
31	B9	4	
32	F8	3	
33	A	3	
34	G	2	
35	K2	3	Partly superposed on 36
36	K0	2	Partly superposed on 35
37	A2	3	
38	K5	3	E
39	A	5	E
40	A	3	E
41	A2	2	E
42	K0	5	
43	F0	3	
44	A	3	
45	A	3	E
46	B8?	3	E
47	F5	2	
48	B9	2	
49	B8	4	
50	A0	8	
51	F0	2	
52	A3	4	
53	F0	2	
54	F0	2	
5	<del>[[/del]]</del> 4 <del>[[/del]]</del> 5   K0   5		
56	K0	4	

5

Cards Made Out  
[[5 column table]]

29	+47° 1171	5 22 7.4	+47 28.0	9.2
30	+46° 1023	5 22 19.5	+46 46.3	7.3
31	+47° 1169	5 21 24.3	+47 14.5	9.0
32	+47° 1164	5 19 51.9	+47 47.5	8.3
33	+48° 1276	5 19 24.6	+48 6.9	9.0
34	+47° 1158	5 18 28.2	+47 53.0	7.8 +47° 1159 superposed?
35	+48° 1273	5 16 57.5	+48 5.8	6.2
36	+48° 1274	5 16 51.9	+48 15.2	6.8
37	+46° 1012	5 14 24.2	+46 49.1	8.2
38	+46° 1007	5 12 25.0	+46 52.7	7.0
39	+46° 998	5 9 50.3	+46 48.8	7.0
40	+47° 1126	5 8 2.9	+47 5.3	8.0
41	+47° 1124	5 7 41.4	+47 9.9	8.2
42	+48° 1333	5 50 36.9	+48 56.8	6.5
43	+49° 1436	5 50 7.6	+49 28.6	8.1



44		+48°	1331		5 49 19.6		+48 52.0		8.6
45		+49°	1452		5 55 52.6		+49 57.6		8.3
46		+50°	1267		5 55 34.7		+50 4.2		8.2
47		+49°	1444		5 53 29.5		+49 50.9		8.8
48		+49°	1443		5 52 57.7		+49 53.3		8.8
49		+50°	1263		5 52 27.1		+50 14.3		9.0
50		+49°	1441		5 51 34.6		+49 52.3		6.0
51		+49°	1435		5 49 53.0		+49 58.3		8.8
52		+49°	1432		5 49 22.6		+49 57.3		8.3
53		+49°	1431		5 49 5.4		+49 58.3		9.0
54		+49°	1429		5 48 10.1		+49 37.2		8.5
55		+49°	1428		5 48 7.7		+49 54.3		6.0
56		+49°	1423		5 45 56.6		+49 0.0		6.5

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[[4 column table]]  
No. | Class | Int. | Remark |

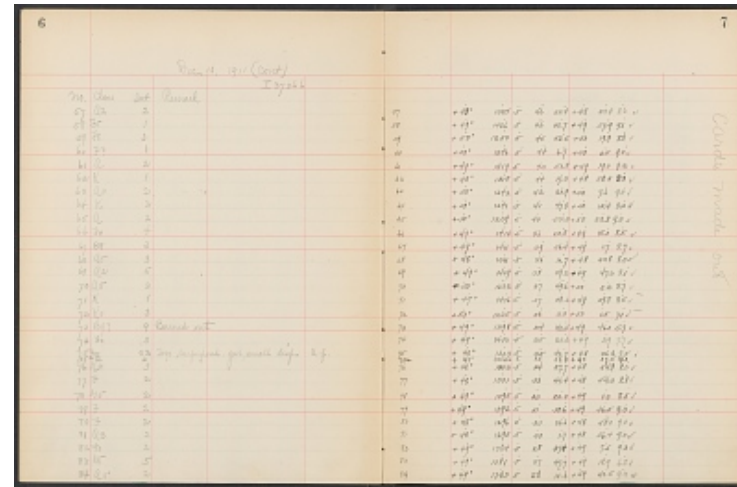
57	A2	2	
58	F5	1	
59	F8	3	
60	F2	1	
61	A	2	
62	K	1	
63	A0	2	
64	K	2	
65	A	2	
66	F0	4	
67	B8	3	
68	A5	3	
69	A2	5	
70	A5	3	
71	K	1	
72	K0	3	
73	B9?	9	Burned out
74	F0	3	
75	G5	[[strikethrough]] 2	Two superposed. Get small disp. s.f.
75a	A	2	Two superposed
76	K0	3	
77	F	2	
78	G5	2	
79	F	2	
80	F	2	
81	A3	2	
82	F0	2	
83	G5	5	
84	A5	2	

7

Cards Made Out

[[5 column table]]

57	+48° 1324	5 46 33.4	+48 23.4	8.6
58	+49° 1426	5 46 32.7	+49 57.9	9.1
59	+50° 1250	5 45 52.5	+50 19.9	8.8
60	+50° 1246	5 44 6.7	+50 0.5	9.0
61	+49° 1419	5 43 51.8	+49 19.0	9.2
62	+48° 1318	5 44 17.3	+48 58.3	8.3
63	+50° 1242	5 42 20.9	+50 7.6	9.0



64	+50°	1241	5 41 47.8	+50 15.4	8.3
65	+50°	1239	5 40   55.0	+50 22.8	9.0
66	+49°	1414	5 40 23.8	+49 18.0	8.5
67	+49°	1411	5 39 36.4	+49 1.7	8.7
68	+48°	1311	5 40 10.7	+48 33.8	8.0
69	+49°	1409	5 38 39.2	+49 47.2	8.1
70	+50°	1232	5 37 49.6	+50 2.2	8.7
71	+49°	1406	5 37 38.2	+49 29.8	8.5
72	+50°	1225	5 36 3.3	+50 1.5	7.1
73	+49°	1398	5 34 42.5	+49 46.0	5.7
74	+49°	1400	5 35 20.6	+49 3.9	7.7
75	+48°	1303	5 35 40.7	+48 36.2	7.5
75a	+48°	1302a	5 35 38.1	+48 37.0	9.1
76	+48°	1302	5 34 27.7	+48 54.9	8.0
77	+48°	1301	5 33 44.4	+48 54.3	8.8
78	+49°	1395	5 33 22.0	+49 1.3	8.5
79	+49°	1392	5 31 50.6	+49 46.5	9.3
80	+48°	1296	5 30 14.6	+48 58.0	9.0
81	+48°	1295	5 30 1.7	+48 56.4	9.0
82	+49°	1384	5 28 37.4	+49 7.5	9.3
83	+49°	1381	5 27 47.7	+49 18.9	6.8
84	+49°	1383	5 28 10.6	+49 42.5	9.3

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[[4 column table]]

No.	Class	Int.	Remark
85	F 1	1	
86	A3	3	
87	G5	2	
88	F0	4	
89	K	2	
90	K0	4	
91	F5	4	
92	A2	3	
93	F	1	
94	F5	6	
95	B8	4	
96	K	2	
97	A	4	
98	A	1	
99	G	3	
100	A	3	
101	A	2	
102	K0	4	
103	F5	3	
104	A4	4	
105	K	2	
106	A5	7	
107	G	3	
108	K	3	
109	A0	7	
110	F8	2	
111	K0	3	
112	K0	2	

9

[[5 column table]]

85	+49°	1382	5 27 54.2	+49 57.8	9.2	[[checkmark]]
86	+49°	1379	5 27 16.9	+49 52.5	8.5	[[checkmark]]
87	+50°	1208	5 27 23.6	+50 16.0	8.5	[[checkmark]]
88	+50°	1203	5 26 56.8	+50 25.6	8.0	[[checkmark]]
89	+49°	1376	5 25 57.2	+49 42.5	8.7	[[checkmark]]
90	+49°	1370	5 24 13.6	+49 28.4	7.5	[[checkmark]]
91	+48°	1288	5 23 48.9	+48 56.3	7.5	[[checkmark]]
92	+49°	1368	5 23 37.4	+49 9.2	9.0	[[checkmark]]
93	+49°	1367	5 23 17.9	+49 40.1	9.1	[[checkmark]]
94	+49°	1364	5 21 13.3	+49 15.6	6.3	[[checkmark]]
95	+48°	1278	5 20 43.8	+48 48.9	7.5	[[checkmark]]
96	+49°	1358	5 18 13.4	+49 3.1	7.8	[[checkmark]]
97	+49°	1356	5 16 28.4	+49 7.7	7.7	[[checkmark]]



98		+48°	1270		5	16	17.4		+48	539		9.0	[[checkmark]]
99		+48°	1264		5	13	34.3		+48	13.5		8.2	[[checkmark]]
100		+48°	1251		5	8	56.1		+48	59.9		9.1	[[checkmark]]
101		+49°	1340		5	8	40.6		+49	9.8		9.4	[[checkmark]]
102		+48°	1248		5	7	30.8		+48	46.0		6.5	[[checkmark]]
103		+49°	1323		5	2	4.1		+49	40.6		7.8	[[checkmark]]
104		+50°	1136		5	4	29.3		+50	23.0		7.7	[[checkmark]]
105		+51°	1150		5	54	7.7		+51	53.0		8.5	[[checkmark]]
106		+51°	1146		5	53	1.0		+51	34.6		6.3	[[checkmark]]
107		+51°	1144		5	51	42.1		+51	14.4		8.1	[[checkmark]]
108		+51°	1141		5	49	31.0		+51	4.1		8.8	[[checkmark]]
109		+51°	1139		5	48	46.5		+51	2.7		6.7	[[checkmark]]
110		+51°	1133		5	46	44.2		+51	6.1		8.8	[[checkmark]]
111		+51°	1125		5	43	58.0		+51	5.4		8.3	[[checkmark]]
112		+50°	1243		5	42	31.6		+50	41.9		8.3	[[checkmark]]

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[[4 column table]]

No.	Class	Int.	Remark
113	G5	3	
114	K0	7	
115	K0	3	
116	B8	5	
117	B8	3	
118	K0	2	
119	G5	5	
120	F5	2	
121	F8	3	
122	K	2	
123	K0	4	
124	A5	2	
125	A2	4	
126	K0	5	
127	A0	2	
128	A	3	
129	F2	3	
130	K	2	
131	A	5	Partly superposed on 137
132	A0	2	Partly superposed on 137
133	A	2	Partly superposed on 137
134	K0	3	
135	A	2	
136	F0	3	
137	K0	3	
138	G5	4	
139	G5	4	
140	G5	21	

11

[[5 column table]]

113	+50°	1240	5 41 10.8	+50 43.5	8.5	[[checkmark]]
114	+51°	1117	5 39 27.0	+51 28.2	6.3	[[checkmark]]
115	+51°	1114	5 38 23.0	+51 19.3	8.2	[[checkmark]]
116	+51°	111	<del>[[striketthrough]] 3</del>	<del>[[striketthrough]] 2</del>	5 37	
			<del>[[striketthrough]] 27.0</del>	<del>[[striketthrough]] 13.6</del>	+51	<del>[[striketthrough]] 40.9</del>
			<del>[[striketthrough]] 6.1</del>	<del>[[striketthrough]] 8.1</del>		[[checkmark]]
117	+50°	1229	5 36 57.6	+50 57.8	8.5	[[checkmark]]
118	+51°	1110	5 36 30.3	+51 23.4	8.6	[[checkmark]]
119	+51°	1111	5 35 33.0	+51 26.2	6.4	[[checkmark]]
120	+50°	1223	5 34 29.0	+50 34.0	8.4	[[checkmark]]
121	+50°	1222	5 33 49.0	+50 39.6	8.8	[[checkmark]]
122	+50°	1220	5 32 48.6	+50 43.0	8.0	[[checkmark]]
123	+50°	1218	5 32 3.6	+50 37.2	7.0	[[checkmark]]

124	+50° 1219	5 32 16.9	+50 58.2	9.1	[[checkmark]]
125	+51° 1096	5 28 5.6	+51 14.9	8.4	[[checkmark]]
126	+51° 1094	5 26 53.9	+51 20.7	7.9	[[checkmark]]
127	+50° 1204	5 26 58.8	+50 59.9	8.5	[[checkmark]]
128	+51° 1087	5 23 23.7	+51 48.8	8.0	[[checkmark]]
129	+52° 969	5 22 43.7	+52 6.6	8.3	[[checkmark]]
130	+52° 967	5 21 23.1	+52 0.8	8.2	[[checkmark]]
131	+51° 1083	5 21 48.3	+51 20.3	8.2	[[checkmark]]
132	+51° 1081a	5 21 42.4	+51 26.5	9.1	[[checkmark]]
133	+51° 1081	5 21 32.8	+51 14.9	9.0	[[checkmark]]
134	+50° 1188	5 21 39.3	+50 26.2	8.5	[[checkmark]]
135	+50° 1191	5 22 28.2	+50 0.2	9.2	[[checkmark]]
136	+50° 1183	5 20 27.0	+50 15.3	8.1	[[checkmark]]
137	+50° 1184	5 20 31.7	+50 53.9	7.0	[[checkmark]]
138	+51° 1080	5 20 34.6	+51 6.1	7.5 +51° 1079 superposed	
	[[checkmark]]				
139	+51° 1076	5 19 45.8	+51 9.8	7.5	[[checkmark]]
140	+51° 1072	5 17 27.5	+51 38.0	8.4	[[checkmark]]

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Dec. 10, 1911 (Cont)

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[4 column table]

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

13

[5 column table]

Cards Made Out

141	+50° 1178	5 17 7.5	+50 49.4	8.7
142	+50° 1172	5 15 26.5	+50 8.5	8.4
143	+50° 1169	5 14 46.5	+50 53.0	9.2
144	+50° 1166	5 13 35.3	+50 50.4	8.3
145	+51° 1063	5 11 14.2	+51 4.5	8.0
146	+51° 1059	5 10 22.0	+51 20.0	7.8
147	+51° 1055	5 9 45.5	+51 16.0	9.0
148	+50° 1149	5 8 31.2	+50 51.0	8.0
149	+50° 1151	5 9 34.9	+50 28.2	8.5
150	+50° 1156	5 11 3.7	+50 20.8	8.9
151	+50° 1159	5 12 16.1	+50 4.9	8.2
152	+50° 1168	5 13 51.4	+50 13.7	9.2
153	+51° 1048	5 5 0.5	+51 29.0	9.0
154	+51° 1047	5 4 38.5	+51 48.0	8.0
155	+51° 1043	5 2 39.8	+51 14.9	8.0

156		+53°989		5 56 33.8		+53 8.5		8.0
157		+53° 986		5 52 57.1		+53 49.7		9.0
158		+53° 981		5 51 21.8		+53 31.2		7.0
159		+52° 1023		5 48 21.4		+52 19.2		8.5
160		+52° 1021		5 47 42.1		+52 23.2		8.4
161		+52 deg. 1019		5 47 16.9		+52 28.6		8.9
162		+52° 1018		5 46 41.5		+52 1.1		9.0
163				5 46. <del>0</del>		<del>3</del>		+51 39
164		+51° 1130		5 45 24.0		+51 44.0		8.5
165		+51° 1127		5 44 43.7		+51 31.0		8.5
166		+51° 1128		5 44 44.8		+51 45.4		7.0
167		+51° 1126		5 44 34.2		+51 50.3		8.8
168		+52° 1010		5 43 49.6		+52 18.2		9.1

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14  
Dec. 10, 1911 (cont.)  
I 37366

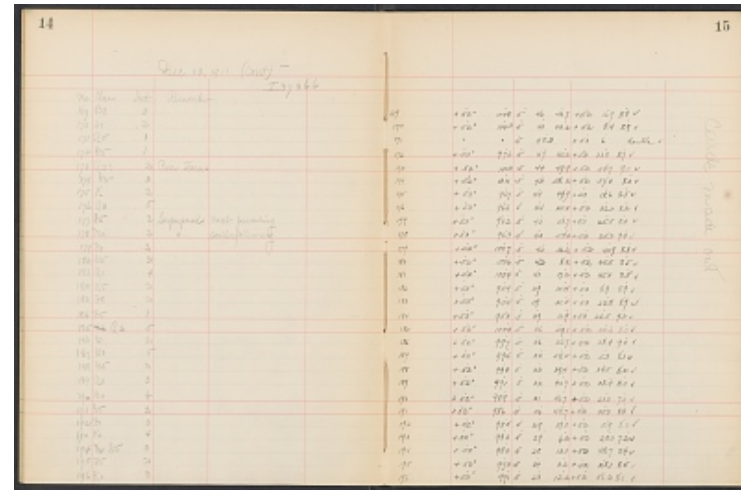
[[4 column table]]

No.	Class	Int.	Remark
169	B9	3	
170	F0	2	
171	A5	1	
172	G5	1	
173	A3?	2	Poor focus
174	G5	3	
175	K	2	
176	A3	5	
177	F5	2	Superposed. North preceding
178	Ma	2	Superposed. South following
179	F0	2	
180	G5	2	
181	A0	4	
182	K5	2	
183	F8	2	
184	F5	1	
185	<del>[[/del]] F3 [[/del]] A3</del>   5		
186	G	2	
187	G0	5	
188	G5	2	
189	A0	3	
190	G0	4	
191	G5	2	
192	F0	3	
193	K0	4	
194	<del>[[/del]] K0 [[/del]] G5</del>   3		
195	F5	2	
196	K0	3	

15

Cards Made Out  
[[5 column table]]

169	+52° 1008	5 42 46.7	+52 12.9	8.8
170	+52° 1003	5 40 44.2	+52 8.4	8.9
171	-   -	5 48.3	+53 6	double
172	+53° 976	5 47 45.2	+53 31.8	8.7
173	+52° 1013	5 44 49.9	+52 54.7	9.0
174	+52° 1011	5 43 58.2	+52 57.0	8.0
175	+53° 967	5 44 49.9	+53 18.6	8.5
176	+53° 966	5 44 35.3	+53 32.0	8.2
177	+53° 962	5 43 50.7	+53 25.5	8.0
178	+53° 963	5 43 54.3	+53 25.0	9.0
179	+52° 1007	5 42 36.2	+52 40.9	8.8
180	+52° 1006	5 42 8.2	+52 35.5	8.5
181	+52° 1004	5 41 17.2	+52 45.3	8.5
182	+53° 954	5 39 15.4	+53 8.9	8.9
183	+53° 955	5 39 31.5	+53 22.8	8.9
184	+53° 953	5 39 11.9	+53 26.5	9.0
185	+52° 1000	5 36 59.1	+52 30.6	8.0
186	+52° 997	5 36 22.7	+52 38.4	9.0



187		+52°	994		5	33	54.5		+52	5.8		8.1
188		+52°	993		5	33	39.4		+52	34.5		8.2
189		+52°	991		5	32	41.7		+52	38.4		8.0
190		+52°	989		5	31	46.7		+52	23.0		7.0
191		+52°	986		5	30	44.7		+52	35.0		8.4
192		+52°	985		5	29	39.0		+52	5.9		8.0
193		+52°	983		5	29	6.2		+52	28.3		7.2
194		+52°	982		5	28	13.0		+52	48.7		8.4
195		+52°	973		5	24	3.2		+52	28.1		8.5
196		+52°	971		5	23	12.2		+52	51.2		8.1

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 10, 1911 (cont.)

I 37366

[[4 column table]]

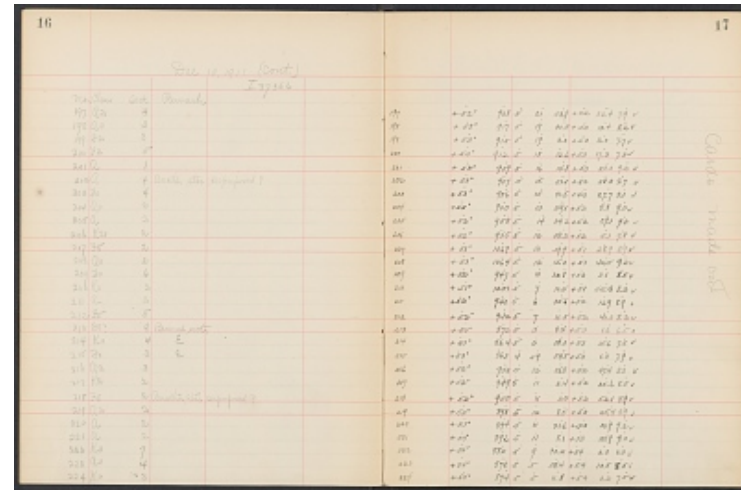
No.	Class	Int.	Remark
197	A2	4	
198	A0	3	
199	F2	3	
200	F2	5	
201	A	1	
202	A	4	Another star superposed?
203	F0	4	
204	A0	2	
205	A	2	
206	K2	2	
207	F5	2	
208	A0	2	
209	F0	6	
210	K0	2	
211	A	2	
212	F5	5	
213	B8?	8	Burned out
214	K0	4	E
215	F0	3	E
216	A2	3	
217	K2	2	
218	F5	2	Another star superposed?
219	A2	2	
220	A	2	
221	A	2	
222	K0	7	
223	A0	4	
224	K0	3	

17

Cards Made Out

[[5 column table]]

197	+52° 968	5 21 53.9	+52 32.4	7.9
198	+53° 917	5 19 30.3	+53 13.4	8.2
199	+53° 915	5 19 3.0	+53 2.0	7.7
200	+53° 912	5 18 12.6	+53 17.3	7.3
201	+53° 909	5 16 14.8	+53 23.0	9.2
202	+53° 907	5 15 51.1	+53 38.3	8.7
203	+53° 906	5 15 41.5	+53 27.7	8.1
204	+53° 903	5 13 59.1	+53 8.8	9.0
205	+52° 958	5 14 34.2	+52 29.1	9.0
206	+52° 955	5 12 58.2	+52 5.1	7.8





207	+51° 1069	5 13 59.9	+51 28.9	8.9
208	+51° 1064	5 12 15.0	+51 45.5	9.2
209	+52° 847	5 10 30.8	+52 3.1	8.5
210	+51° 1051	5 7 11.5	+51 55.4	8.2
211	+52° 940	5 6 35.6	+52 12.9	8.9
212	+52° 942	5 7 11.5	+52 40.0	8.2
213	+53° 872	5 3 8.4	+53 1.6	6.5
214	+53° 864	5 0 18.0	+53 15.6	7.5
215	+53° 863	4 59 54.5	+53 1.3	7.9
216	+52° 953	5 12 26.8	+52 47.4	8.3
217	+52° 949	5 11 2.4	+52 35.6	8.5
218	+52° 950	5 11 3.3	+52 52.1	8.9
219	+53° 898	5 12 8.5	+53 25.4	8.9
220	+53° 894	5 11 21.6	+53 30.9	9.2
221	+53° 892	5 11 8.1	+53 28.9	9.0
222	+54° 882	5 9 30.2	+54 6.0	6.3
223	+54° 878	5 5 58.4	+54 13.5	8.5
224	+54° 874	5 5 11.8	+54 0.2	7.5

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 10th 1911 (cont)

I37366

[[4 column table]]

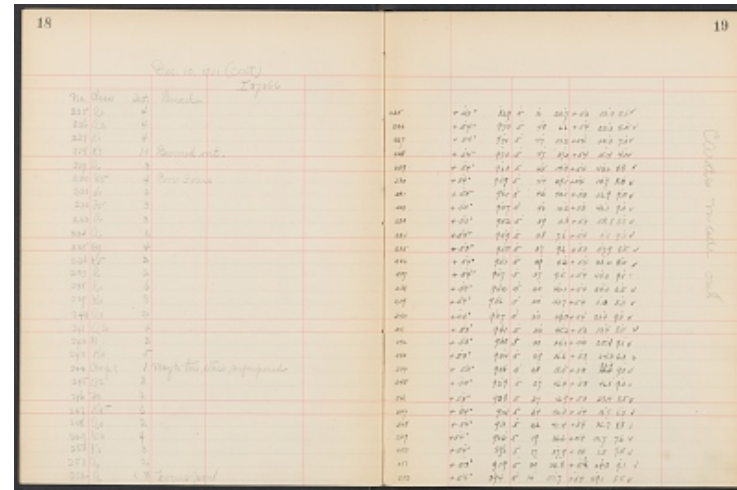
No.	Class	Int.	Remarks
225	A0	4	
226	A2	4	
227	K0	4	
228	K?	10	Burned out
229	A	3	
230	G5	4	Poor focus
231	F0	2	
232	F5	3	
233	A	3	
234	A	2	
235	B9	4	
236	K5	2	
237	A	2	
238	K0	6	
239	K0	3	
240	G	2	
241	A2	4	
242	G	2	
243	K0	5	
244	Comp?	1	Maybe two stars superposed
245	A2	2	
246	F0	2	
247	K5	6	
248	A0	2	
249	G0	4	
250	K0	3	
251	A	2	
252	A	<3	Focus poor

19

Cards Made Out

[[5 column table]]

225	+53° 869	5 2 26.7	+53 50.3	8.0
226	+54° 973	5 48 6.6	+54 22.3	8.5
227	+54° 971	5 47 51.2	+54 32.0	7.0
228	+54° 970	5 47 37.0	+54 15.4	4.0
229	+54° 963	5 45 14.4	+54 43.0	8.8
230	+54° 959	5 45 29.1	+54 13.7	8.3
231	+53° 961	5 42 43.9	+53 56.9	9.0
232	+53° 957	5 40 10.2	+53 56.9	9.0
233	+53° 952	5 39 0.3	+53 58.8	8.8
234	+54° 949	5 38 7.6	+54 0.1	9.3
235	+53° 950	5 37 9.6	+53 57.9	8.5



236	+54° 951	5 39 4.2	+54 38.2	8.5
237	+54° 947	5 37 9.5	+54 44.0	9.1
238	+54° 942	5 35 42.1	+54 24.0	6.5
239	+54° 936	5 33 43.7	+54 0.3	8.0
240	+54° 937	5 33 49.3	+54 21.4	9.0
241	+53° 941	5 33 45.2	+53 13.4	8.5
242	+53° 938	5 30 34.1	+53 25.4	9.1
243	+53° 934	5 29 36.6	+53 24.3	6.3
244	+53° 930	5 28 18.5	+53 <del>18.5</del>	<del>18.5</del>
245	+53° 929	5 27 42.4	+53 46.8	9.0
246	+53° 928	5 27 12.9	+53 28.4	8.5
247	+54° 914	5 24 42.0	+54 18.5	6.0
248	+54° 911	5 22 41.4	+54 36.7	8.8
249	+54° 902	5 19 36.6	+54 31.7	7.6
250	+54° 896	5 17 37.9	+54 1.5	7.5
251	+53° 919	5 20 32.8	+5 <del>4</del>	<del>3 34.8</del>
252	+54° 894	5 16 51.7	+54 49.1	8.5

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 10, 1911 (cont.)

I 37366

[[4 column table]]

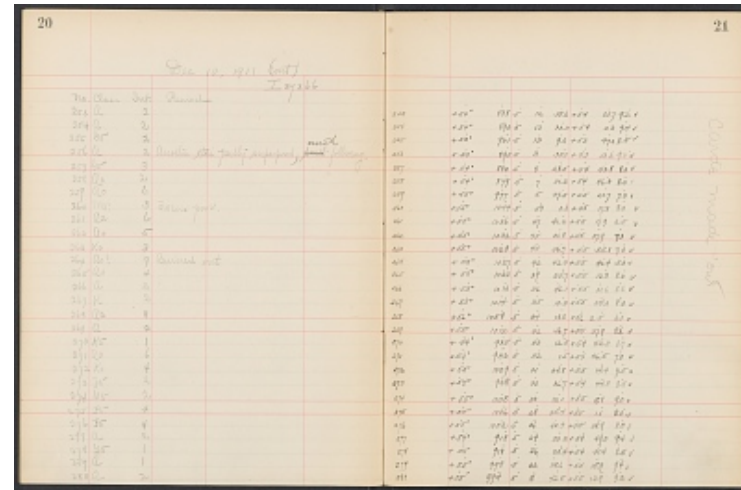
No.	Class	Int.	Remark
253	A	2	
254	A	2	
255	G5	2	
256	A	2	Another star partly superposed <del>[[striketrough]]</del> south
			<del>[[striketrough]]</del> north following
257	G5	3	
258	A0	2	
259	A0	6	
260	Ma?	3	Focus poor
261	A2	6	
262	A0	5	
263	K0	3	
264	A0?	9	Burned out
265	A0	4	
266	A	2	
267	K	2	
268	A2	8	
269	A	2	
270	K5	1	
271	A0	6	
272	K0	4	
273	F5	2	
274	G5	2	
275	F5	4	
276	F5	4	
277	A	2	
278	G5	1	
279	A	1	
280	A	2	

21

Cards Made Out

[[5 column table]]

253	+54° 888	5 12 58.6	+54 25.7	9.2
254	+54° 890	5 13 30.0	+54 0.2	9.4
255	+53° 901	5 13 9.6	+53 47.1	8.5
256	+53° 895	11 35.1	+53 50.6	9.0
257	+54° 880	5 8 28.5	+54 53.8	8.0
258	+54° 879	5 7 31.2	+54 46.3	8.3
259	+55° 977	5 5 37.5	+55 20.7	7.3
260	+55° 1044	5 50 0.0	+55 17.8	8.0
261	+55° 1036	5 47 41.2	+55 17.9	6.5



262	+55° 1032	5 45 31.8	+55 37.9	7.1
263	+55° 1028	5 44 56.7	+55 55.8	7.0
264	+55° 1027	5 42 42.3	+55 40.4	5.0
265	+55° 1022	5 39 25.7	+55 12.8	8.0
266	+55° 1016	5 36 46.1	+55 31.6	8.6
267	+55° 1014	5 35 10.0	+55 34.0	8.0
268	+56° 1058	5 34 18.8	+56 2.5	6.1
269	+55° 1012	5 32 46.7	+55 37.9	8.6
270	+54° 935	5 33 12.5	+54 42.0	8.7
271	+54° 932	5 32 1.5	+54 46.5	7.0
272	+55° 1009	5 31 34.8	+55 14.4	7.5
273	+54° 928	5 30 36.7	+54 44.5	8.5
274	+55° 1008	5 30 10.1	+55 18.8	9.0
275	+55° 1006	5 28 35.4	+55 1.1	8.0
276	+55° 1002	5 26   42.4	+55 38.9	8.0
277	+54° 913	5 24 20.2	+54 49.0	9.4
278	+54° 918	5 26 25.4	+54 51.4	8.5
279	+55° 998	5 22 38.6	+55 15.9	9.4
280	+55° 994	5 18 42.5	+55 12.9	9.2

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 19, 1911 (cont.)

I 37366

[[4 column table]]

No.	Class	Int.	Remark
281	F5	3	
282	F5	3	
283	K0	4	
284	A	3	E
285	F	4	E
286	K	2	
287	A2	7	
288	A0	6	
289	A	2	
290	A	2	
291	K	2	E
292	K0	6	
293	F5	5	
294	K0	3	
295	A	2	
296	A0	5	
297	F8	4	E
298	K	2	
299	A	3	E
300	A	3	E

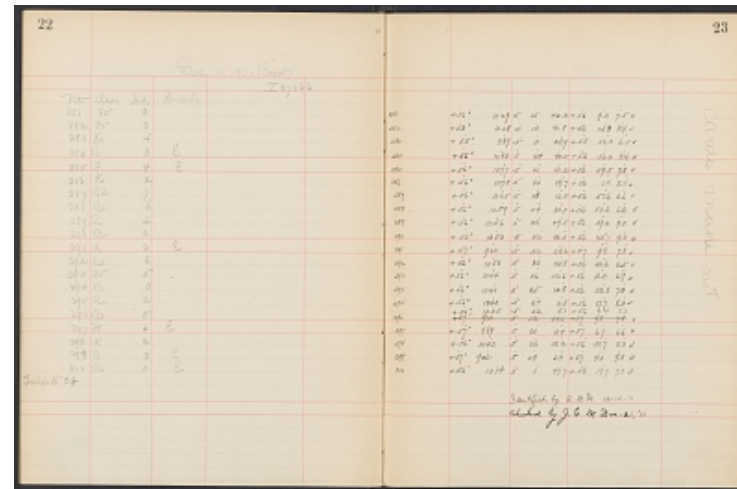
Time 11:34

23

Cards Made Out

[[5 column table]]

281	+56° 1029	5 15 42.3	+56 9.3	7.5
282	+56° 1028	5 14 40.8	+56 14.8	8.4
283	+55° 989	5 11 34.9	+55 56.3	6.5
284	+56° 1080	5 44 42.5	+56 56.0	8.4
285	+56° 1077	5 41 41.2	+56 59.5	7.8
286	+56° 1073	5 40 19.7	+56 1.5	8.5
287	+56° 1065	5 38 12.5	+56 51.6	6.6
288	+56° 1059	5 34 33.0	+56 50.6	6.6
289	+56° 1056	5 33 39.5	+56 39.2	9.0
290	+56° 1053	5 32 36.0	+56 45.7	9.0
291	+57° 910	5 32 24.6	+57 9.8	7.8
292	+56° 1050	5 30 45.8	+56 30.6	6.5
293	+56° 1044	5 26 52.6	+56 16.3	6.9
294	+56° 1041	5 25 12.8	+56 22.8	7.3
295	+56° 1040	5 24 0.5	+56 17.7	8.3
296	[[strikethrough]]	+57° 910	5 32 24.6	+57 9.8   7.8



[[/strikethrough]] +56° 1035 | 5 22 5.1 | +56 9.4 | 8.0  
297 | +57° 889 | 5 20 11.4 | +57 6.7 | 6.6  
298 | +56° 1042 | 5 26 38.2 | +56 51.7 | 8.3  
299 | +57° 902 | 5 28 2.4 | +57 4.0 | 9.3  
300 | +56° 1014 | 5 1 47.7 | +56 19.7 | 7.8

Identified by A.D.W. 12-14-'11  
Checked by J.C.M. Dec. 21, '11

Project PHaEDRA- Annie Jump Cannon 36  
Transcribed and Reviewed by Digital Volunteers  
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Dec. 11, 1911

I 37010  
Time 9.54

[[4 column table]]

No. | Class | Int. | Remark

1	A2	3	
2	A2	5	
3	B9	7	
4	A	1	
5	B8?	2	Near edge
6	G	3	
7	G5	3	
8	A	5	near edge
9	G	4	Near edge
10	A	3	
11	A	1	
12	G5	6	
13	F5	5	
14	B8	7	
15	F0	2	
16	K	8	Line K seems too narrow. Maybe Comp. Look up
17	A2	3	
18	F8	2	
19	A3	5	
20	A0	3	
21	F5	2	
22	A2	3	
23	F2	3	
24	A0	4	
25	B3?	10+	
26	G5	2	
27	A2	3	

25

Cards Made Out

[[5 column table]]

1	+41° 870	4 16 0.2	+41 52.9	7.3
2	+41° 861	4 14 26.4	+41 23.0	7.0
3	+42° 946	4 13 31.8	+42 <del>31.8</del>	4.7
6.5				
4	+42° 952	4 14 13.8	+42 19.3	8.5
5	+42° 960	4 15 58.0	+42 18.3	8.0
6	+42° 964	4 16 40.0	+42 34.9	8.0
7	+42° 969	4 17 33.1	+42 51.4	7.2
8	+43° 977	4 17 43.1	+43 0.1	7.2
9	+39° 980	4 12 9.7	+39 35.3	7.4
10	+41° 858	4 11 44.0	+41 4.2	8.0
11	+41° 853	4 10 22.0	+41 4.8	8.0



12	+41° 852	4 10 15.1	+41 27.5	6.5
13	+42° 938	4 9 11.7	+42 1.5	7.1
14	+41° 844	4 8 6.9	+41 47.3	6.4
15	+41° 837	4 5 36.5	+41 28.9	8.0
16	+40° 91	<del>8</del>	<del>2</del>	4 5 1.5   +40 6.3   4.8
17	+40° 903	4 1 33.3	+40 32.0	7.0
18	+39° 937	3 59 24.5	+39 46.4	7.8
19	+41° 818	3 59 3.6	+41 7.3	7.0
20	+41° 815	3 58 25.9	+41 6.2	7.5
21	+40° 881	3 54 40.1	+40 41.8	8.0
22	+39° 911	3 52 4.7	+39 33.8	7.3
23	+39° 909	3 51 33.0	+39 41.8	7.0
24	+39° 904	3 50 26.8	+39 35.8	7.4
25	+39° 895	3 48 9.1	+39 35.4	3.2
26	+39° 880	3 42 51.0	+39 55.4	7.5
27	+40° 847	3 42 21.5	+40 21.5	7.2

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 10, 1911 (cont.)

I 37010

[[4 column table]]

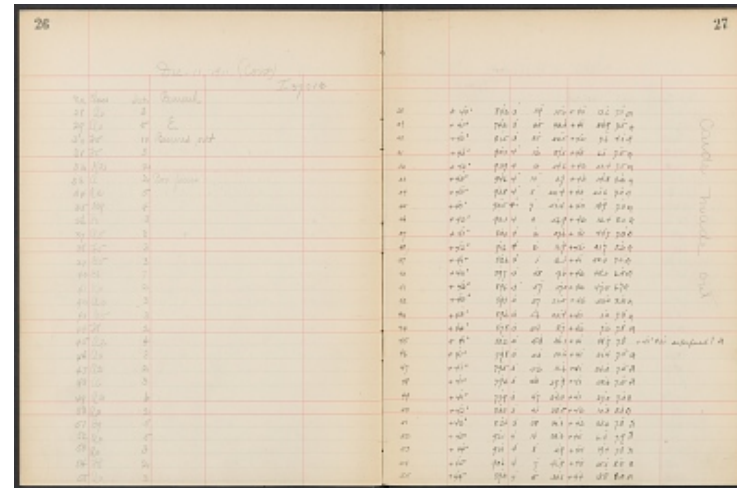
No.	Class	Int.	Remark
28	A0	3	
29	A0	5	E
30	F5	10	Burned out
31	F5	3	
32	K2	2	
33	A	2	Poor focus
34	A2	5	
35	B9	4	
36	F0	3	
37	A5	3	
38	F5	3	
39	G5	3	
40	B8	7	
41	K0	2	
42	A0	3	
43	G5	3	
44	F8	2	
45	A2	4	
46	A0	3	
47	A2	2	
48	A	3	
49	A2	6	
50	A3	2	
51	B9	5	
52	A0	5	
53	A0	3	
54	F8	2	
55	A0	3	

27

Cards Made Out

[[5 column table]]

28	+40° 842	3 39 15.0	+40 13.6	7.8
29	+41° 742	3 35 43.6	+41 33.9	7.5
30	+42° 815	3 35 22.5	+42 7.6	4.1
31	+43° 951	4 12 27.1	+43 6.1	7.5
32	+42° 939	4 10 24.6	+42 53.4	7.5
33	+43° 946	4 10 3.7	+43 14.8	8.2
34	+43° 938	4 8 20.4	+43 21.6	7.0
35	+43° 935	4 7 51.4	+43 18.9	7.0
36	+42° 921	4 3 56.9	+42 12.4	8.0
37	+41° 830	4 2 37.6	+41 44.7	7.3



38	+42° 916	4 2 16.9	+42 31.7	8.2	
39	+41° 826	4 1 16.1	+41 22.0	7.0	
40	+42° 897	3 58 9.0	+42 48.0	6.5	
41	+42° 896	3 57 57.5	+42 47.5	6.7	
42	+42° 893	3 57 21.5	+42 53.3	8.2	
43	+43° 892	3 56 22.4	+43 1.3	7.3	
44	+42° 878	3 54 8.7	+42 7.2	7.8	
45	+41° 802	3 53 36.1	+41 48.7	7.8	+41° 801 superposed?
46	+41° 798	3 53 13.6	+41 31.4	7.5	
47	+41° 795	3 52 11.6	+41 26.0	7.5	
48	+41° 792	3 50 39.9	+41 50.6	7.5	
49	+41° 779	3 47 24.3	+41 27.0	7.0	
50	+42° 833	3 41 38.5	+42 10.3	8.0	
51	+42° 824	3 38 30.0	+42 25.2	7.8	
52	+45° 921	4 10 33.0	+45 6.4	7.9	
53	+44° 901	4 8 2.9	+44 19.4	7.8	
54	+45° 906	4 7 41.9	+45 15.1	8.5	
55	+44° 893	4 5 30.1	+44 18.8	8.0	

Project PHaEDRA- Annie Jump Cannon 36  
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 Extracted Aug-30-2022 03:40:57

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Dec. 11, 1911 (cont.)

I 37010

[[4 column table]]

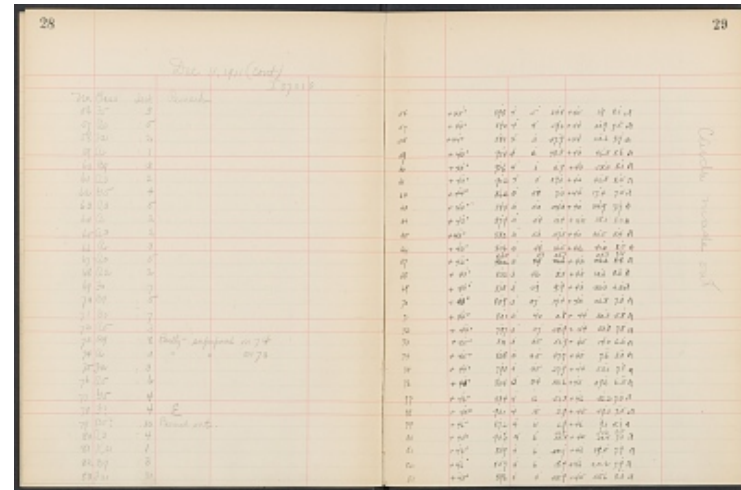
No.	Class	Int.	Remark
56	F5	3	
57	A0	5	
58	F2	2	
59	A	1	
60	B9	3	
61	A3	2	
62	G5	4	
63	A3	5	
64	A	2	
65	A3	2	
66	A	3	
67	A0	5	
68	A2	2	
69	F0	7	
70	B9	5	
71	G0	7	
72	A5	3	
73	B9	8	Partly superposed on 74
74	A	3	Partly superposed on 73
75	F2	3	
76	A5	6	
77	G5	4	
78	F?	4	E
79	B5?	10	Burned out
80	A3	4	
81	K2	1	
82	B9	3	
83	F2	2	

29

Cards Made Out

[[5 column table]]

56	+45° 898	4 5 24.8	+45 1.9	8.1
57	+44° 890	4 4 59.0	+44 23.9	7.5
58	+44° 881	4 3 57.9	+44 22.6	7.7
59	+43° 924	4 2 48.8	+43 46.8	8.6
60	+43° 916	4 1 11.9	+43 58.3	8.1
61	+43° 912	4 0 29.0	+43 42.8	8.5
62	+44° 862	3 58 7.3	+44 17.4	7.5
63	+43° 884	3 53 54.3	+43 34.9	7.7
64	+42° 879	3 54 13.4	+42 38.0	8.0
65	+43° 882	3 53 37.5	+43 31.5	8.4



66 | +42° 856 | 3 48 16.5 | +42 41.0 | 8.5  
 67 | +42° ~~860~~ | 3 ~~855~~ | ~~3~~  
 49 21.4 | +42 56.0 | 8.8 ~~47 26.7~~ | +42 53.7 | 7.4  
 68 | +43° 832 | 3 42 8.8 | +43 13.6 | 8.6  
 69 | +43° 818 | 3 39 9.9 | +43 30.3 | 6.2  
 70 | +43° 809 | 3 37 17.4 | +43 36.8 | 7.0  
 71 | +44° 901 | 3 40 0.8 | +44 30.3 | 5.8  
 72 | +44° 797 | 3 37 58.9 | +44 53.8 | 7.8  
 73 | +45° 811 | 3 35 51.9 | +45 14.0 | 6.2  
 74 | +45° 808 | 3 35 47.7 | +45 7.6 | 8.0  
 75 | +44° 790 | 3 35 27.9 | +44 53.1 | 7.8  
 76 | +45° 804 | 3 34 33.6 | +45 39.2 | 6.5  
 77 | +46° 884 | 4 16 51.8 | +46 32.2 | 7.0  
 78 | +45° 931 | 4 15 2.9 | +45 49.0 | 7.5  
 79 | +46° 872 | 4 11 6.9 | +46 9.1 | 5.1  
 80 | +45° 905<sup>[4]</sup> | 4 6 55.5<sup>[52.9]</sup> | +45 50.4<sup>[51.0]</sup> | 7.0<sup>[8.5]</sup>  
 81 | +46° 859 | 4 6 50.7 | +46 19.5 | 7.9  
 82 | +46° 857 | 4 6 18.7 | +46 23.2 | 7.9  
 83 | +45° 896 | 4 4 55.9 | +45 55.6 | 8.0

Project PHaEDRA- Annie Jump Cannon 36  
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30

Dec. 11, 1911 (Cont)

I37366

[[4 column table]]

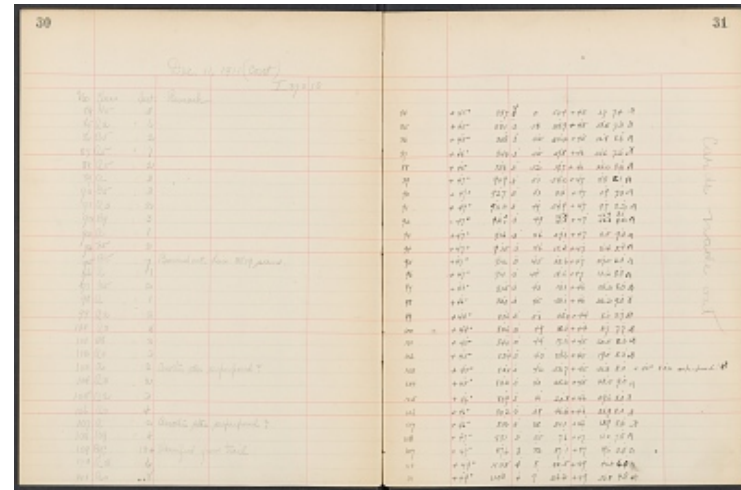
No.	Class	Int.	Remark
84	G5	3	
85	A2	6	
86	A5	2	
87	A5	7	
88	A5	2	
89	A	3	
90	G5	3	
91	A3	2	
92	B9	3	
93	A	1	
94	F5	2	
95	B5	7	Burned out. Line 3819 seen.
96	A	1	
97	G5	2	
98	A	1	
99	A2	2	
100	A3	4	
101	B8	3	
102	A0	2	
103	A	2	Another star superposed?
104	A3	2	
105	A2	3	
106	A0	4	
107	A	2	Another star superposed?
108	B9	4	
109	B9?	10+	Classified from trail
110	A3	6	
111	A0	8	

31

Cards made out

[[5 column table]]

84	+45° 887	4	<del>[[/strickethrough]]</del> 3 <del>[[/strickethrough]]</del> 0 51.4	+45 1.7
7.4	[[checkmark]]			
85	+45° 881	3 58 34.9	+45 50.5	7.3
86	+45° 868	3 55 25.2	+45 12.8	8.6
87	+46° 840	3 55 39.8	+46 31.6	7.2
88	+46° 836	3 52 19.7	+46 34.2	8.2
89	+47° 929	3 51 54.2	+47 4.8	8.1
90	+47° 927	3 21 2.4	+47 1.9	7.3
91	+47° 923	3 49 54.9	+47 9.7	8.2
92	+47° 921 and 920	3 49 15.8 and 15.3	+47 43.3 and 43.9	9.2



and 8.1 | [[checkmark]]

93	+47° 916	3 46 39.1	+47 2.5	9.0	[[checkmark]]
94	+47° 915	3 46 18.3	+47 2.4	8.4	[[checkmark]]
95	+47° 912	3 45 32.6	+47 27.5	6.0	[[checkmark]]
96	+47° 910	3 44 18.6	+47 13.2	8.8	[[checkmark]]
97	+46° 815	3 43 13.1	+46 28.2	8.0	[[checkmark]]
98	+46° 820	3 45 53.1	+46 32.2	9.0	[[checkmark]]
99	+44° 836	3 51 38.0	+44 8.0	8.7	[[checkmark]]
100	+44° 826	3 49 18.3	+44 3.7	7.7	[[checkmark]]
101	+45° 840	3 44 17.2	+45 20.5	8.3	[[checkmark]]
102	+45° 834	3 43 28.3	+45 19.5	8.3	[[checkmark]]
103	+45° 833	3 42 50.7	+45 3.3	8.0	+45° 832

superposed![[checkmark]]

104	+45° 822	3 40 25.2	+45 48.5	9.0	[[checkmark]]
105	+46° 809	3 41 20.8	+46 39.6	8.0	[[checkmark]]
106	+46° 802	3 38 46.6	+46 20.9	8.0	[[checkmark]]
107	+46° 800	3 38 31.1	+46 13.9	8.2	[[checkmark]]
108	+47° 881	3 35 7.6	+47 11.0	7.8	[[checkmark]]
109	+47° 876	3 32 37.1	+47 19.6	3.5	[[checkmark]]
110	+49° 1155	4 8 22.5	+49 41.0	6.0	[[checkmark]]
111	+49° 1150	4 7 22.2	+49 56.0	4.8	[[checkmark]]

Project PHaEDRA- Annie Jump Cannon 36  
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Dec 10, 1911 (cont)

I37010

[[4 column table]]

No.	Class	Int.	Remark
112	G5	9	Burned out.
113	G5	2	
114	B5?	10	Burned out.
115	F5	2	
116	A	4	E
117	A0?	9	Burned out. E.
118	K0	2	
119	F5	4	
120	K	2	
121	B9?	4	Poor focus
122	A0	2	
123	K0	5	
124	G5	4	
125	A2	3	
126	K0	3	

June 10:22

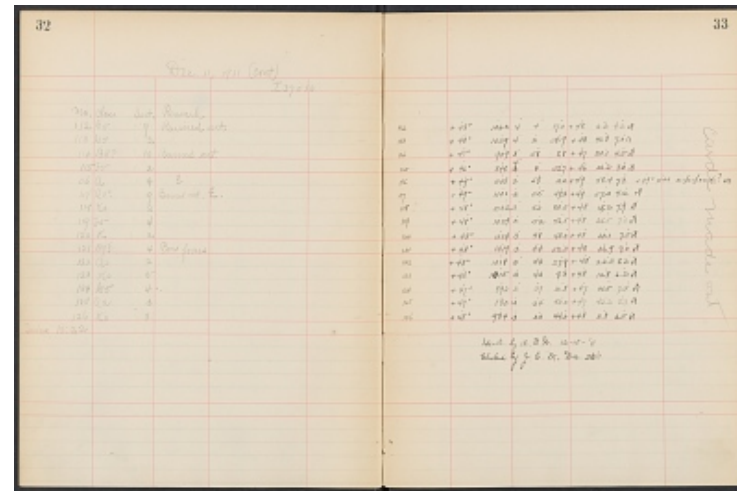
33

[[5 column table]]

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

Ident. by A.D.W. 12-18-'11

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



Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911

Time 10:30 | 37391

[[4 column table]]  
No. | Class | Int. | Results

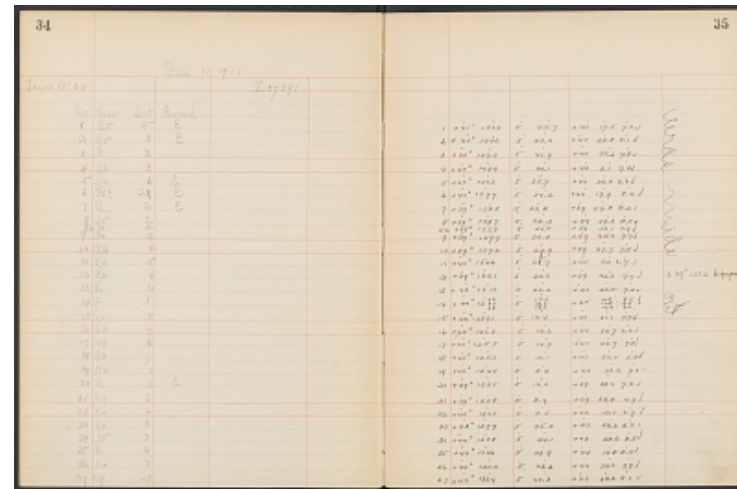
1	A5	5	E
2	A5	3	E
3	G	3	
4	A3	3	
5	A3	6	E
6	F5?	[[/strickethrough]] 3	[[/strickethrough]] 2   E
7	A	2	E
8	F5	2	
8a	F0	2	
9	F0	3	
10	A2	2	
11	K0	5	
12	K0	4	
13	K	2	
14	F	1	
15	A0	3	
16	A2	7	
17	B9	4	
18	A2	7	
19	K2	3	
20	A	3	E
21	G0	6	
22	K0	2	
23	A0	3	
24	F5	3	
25	A	2	
26	K0	3	
27	B9	3	

35

Cards Made Out

[[5 column table]]

1	+41° 1304	5 47.5	+41 17.5	7.0
2	+40° 1446	5 43.5	+40 22.8	8.1
3	+40° 1433	5 41.9	+40 55.2	7.8
4	+40° 1424	5 40.1	+40 3.1	7.4
5	+40° 1403	5 35.7	+40 26.4	6.6
6	+40° 1397	5 34.2	+40 19.9	8.2
7	+39° 1388	5 33.2	+39 53.8	8.2
8	+39° 1387	5 32.3	+39 43.3	8.5
8a	+39° 1379	5 31.0	+39 33.1	7.9
9	+39° 1377	5 30.4	+39 45.0	7.7



10 | +39° 1373 | 5 29.9 | +39 47.7 | 7.8  
 11 | +40° 1346 | 5 2 ~~[[strikethrough]]~~ 5 ~~[[/strikethrough]]~~ 6.7 | +40 5.0 |  
 6.7  
 12 | +39° 1321 | 5 20.6 | +39 42.6 | 7.7 +39° 1322 superposed  
 13 | +40° 1310 | 5 20.2 | +40 23.5 | 7.2  
 14 | +40° 1298<sup>[[97]]</sup><sup>[[96]]</sup> | 5 18.0<sup>[[18.0]]</sup><sup>[[17.9]]</sup> | +40  
 14.0<sup>[[12.8]]</sup><sup>[[13.8]]</sup> | 9.0<sup>[[8.5]]</sup><sup>[[8.5]]</sup>  
 15 | +40° 1291 | 5 17.4 | +40 31.1 | 7.7  
 16 | +40° 1268 | 5 12.8 | +40 52.7 | 6.0  
 17 | +40° 1255 | 5 10.7 | +40 43.7 | 7.8  
 18 | +40° 1253 | 5 10.1 | +40 56.0 | 5.8  
 19 | +40° 1245 | 5 8.8 | +40 56.2 | 7.3  
 20 | +39° 1255 | 5 10.0 | +39 38.0 | 7.3  
 21 | +39° 1248 | 5 8.9 | +39 58.8 | 4.9  
 22 | +40° 1240 | 5 8.5 | +40 18.0 | 6.7  
 23 | +43° 1379 | 5 45.0 | +43 33.2 | 8.2  
 24 | +44° 1308 | 5 44.1 | +44 28.6 | 8.5  
 25 | +44° 1306 | 5 42.9 | +44 14.8 | 8.3  
 26 | +44° 1303 | 5 42.2 | +44 20.6 | 7.9  
 27 | +43° 1364 | 5 40.3 | +43 38.2 | 8.0

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911 (cont.)

I 37391

[[4 column table]]

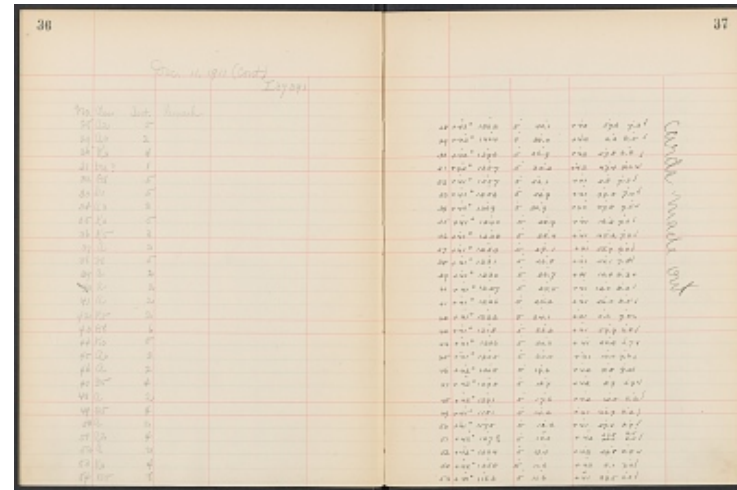
No.	Class	Int.	Remark
28	A2	5	
29	A0	2	
30	K0	4	
31	Ma?	1	
32	B8	5	
33	G0	5	
34	A3	3	
35	K0	5	
36	K5	3	
37	A	2	
38	F8	5	
39	A	2	
40	A	2	
41	A	2	
42	K5	2	
43	B8	6	
44	K0	5	
45	A0	3	
46	A	2	
47	G5	4	
48	A	2	
49	B5	4	
50	A	2	
51	A2	4	
52	A	2	
53	K0	4	
54	B5	8	

37

Cards Made Out

[[5 column table]]

28	+43°	1362	5 40.1	+43 57.6	7.3
29	+42°	1404	5 38.0	+42 0.3	8.5
30	+42°	1396	5 36.9	+42 27.8	6.8
31	+42°	1387	5 35.2	+42 47.4	8.0
32	+41°	1257	5 33.1	+41 2.8	7.3
33	+41°	1256	5 32.9	+41 37.5	7.0
34	+40°	1369	5 30.9	+40 47.8	7.5
35	+41°	1240	5 28.9	+41 16.2	7.0
36	+41°	1238	5 28.4	+41 45.2	7.0
37	+41°	1233	5 27.1	+41 55.7	9.0
38	+41°	1231	5 26.8	+41 44.1	7.3



39	+41°	1230	5 26.7	+41 10.4	8.3
40	+41°	1227	5 25.5	+41 12.0	8.3
41	+41°	1226	5 25.2	+41 26.0	8.5
42	+41°	1222	5 24.1	+41 0.6	7.5
43	+41°	1218	5 23.2	+41 59.9	6.8
44	+41°	1206	5 20.6	+41 20.2	6.7
45	+41°	1205	5 20.0	+41 10.0	7.6
46	+42°	1305	5 19.6	+42 5.8	9.0
47	+42°	1298	5 18.7	+42 8.9	6.9
48	+42°	1291	5 17.6	+42 12.8	8.2
49	+41°	1181	5 14.2	+41 40.9	8.2
50	+41°	1175	5 13.4	+41 27.4	8.7
51	+42°	1274 <sup>^</sup> <sub>[[3]]</sub>	5 14.0	+42 28.3 <sup>^</sup> <sub>[[27.8]]</sub>	8.0 <sup>^</sup> <sub>[[8.5]]</sub>
52	+42°	1264	5 12.3	+42 29.8	8.8
53	+42°	1258	5 11.6	+42 8.1	7.0
54	+41°	1162	5 11.6	+41 39.5	6.0

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911 (cont.)

I 37391

[[4 column table]]

No. | Class | Int. | Remark

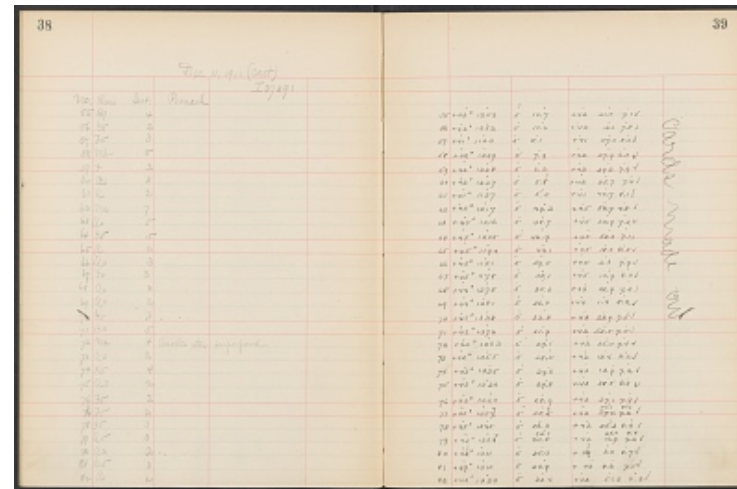
55	B9	4	
56	G5	2	
57	F5	3	
58	Mb	5	
59	F	2	
60	A0	3	
61	A	2	
62	Ma	7	
63	A0	5	
64	G5	5	
65	A	2	
66	A0	3	
67	F0	3	
68	A0	3	
69	A0	2	
70	G5	3	
71	B3	5	
72	Ma	4	Another star superposed
73	A3	2	
74	K5	4	
75	A3	2	
76	F5	2	
77	F5	2	
78	F5	3	
79	A5	3	
80	A2	2	
81	G5	3	
82	A	2	

39

Cards Made Out

[[5 column table]]

55	+42° 1253	5 10.7	+42 21.0	7.1
56	+46° 1252	5 10.6	+42 12.6	7.8
57	+41° 1143	5 8.1	+41 57.0	8.0
58	+42° 1239	5 7.9	+42 37.9	6.0
59	+42° 1228	5 6.2	+42 29.2	7.9
60	+42° 1227	5 5. [[strikethrough]]	8 [[/strikethrough]] 9	+42 35.7   7.4
61	+41° 1127	5 5.3	+41 40.7	8.1
62	+45° 1217	5 49.2	+45 54.7	4.8
63	+45° 1216	5 48.7	+45 54.7	4.8



64	+45°	1205	5 46.9	+45 52.0	7.1
65	+45°	1194	5 44.1	+45 18.0	8.5
66	+45°	1181	5 39.5	+45 2.3	7.9
67	+45°	1178	5 38.1	+45 10.9	8.0
68	+44°	1278	5 35.6	+44 42.9	7.3
69	+44°	1281	5 36.0	+44 1.4	8.2
70	+43°	1338	5 33.8	+43 28.9	7.5
71	+42°	1376	5 31.9	+42 58.5	7.5
72	+42°	1362	5 29.1	+42 35.0	7.4
73	+42°	1355	5 28.5	+42 18.4	8.2
74	+43°	1325	5 29.6	+43 13.9	7.2
75	+43°	1326	5 29.8	+43 38.5	8.3
76	+43°	1320	5 28.9	+43 37.1	7.9
77	+42°	135	<del>7</del>	<del>4</del>	5 28.
			<del>5</del>	<del>0</del>	+42 <del>57.5</del>
			<del>55.1</del>		8.4
78	+42°	1345	5 26.3	+42 25.2	8.4
79	+42°	133	<del>3</del>	<del>4</del>	5 <del>23.8</del>
			<del>9.0</del>	<del>24.1</del>	+42 20.0
			<del>8.4</del>		
80	+4	<del>2</del>	<del>3°</del>	1311	5 25.3
		<del>2</del>	<del>3 3.3</del>		8.7
81	+43°	1310	5 24.9	+43 8.6	7.5
82	+42°	1323	5 22.4	+42 51.2	8.3

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911 (cont.)

I 37391

[[4 column table]]

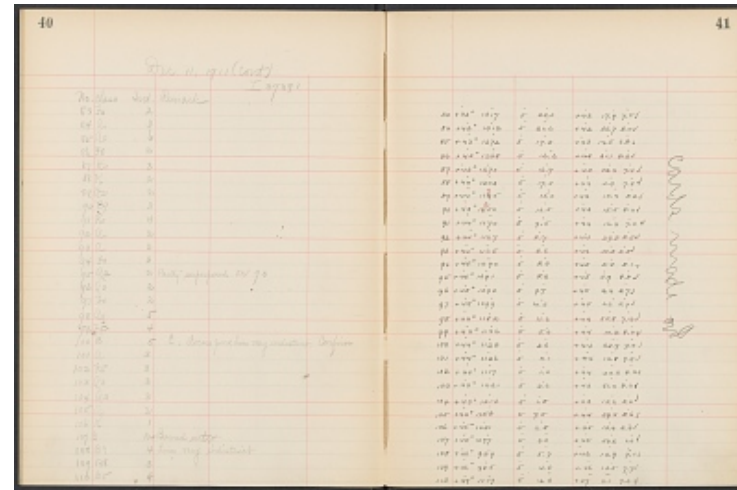
No.	Class	Int.	Remark
83	F0	2	
84	A	3	
85	A0	6	
86	F8	2	
87	K0	3	
88	K	2	
89	A2	2	
90	B9	3	
91	K0	4	
92	A	2	
93	A	3	
94	F0	3	
95	A2	2	Partly superposed on 93
96	A3	2	
97	F0	2	
98	A0	5	
99	F5	4	
100	B	5	E. Focus poor. Lines very indistinct. Confirm
101	A	3	
102	F5	3	
103	A3	3	
104	A3	3	
105	A	2	
106	K	1	
107	G	10+	Burned out
108	B?	4	Lines very indistinct
109	B8	3	
110	G5	4	

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Cards Made Out

[[5 column table]]

83	+42°	1317	5 22.0	+42 17.9	7.5
84	+42°	1312	5 21.6	+42 22.7	8.0
85	+43°	1272	5 17.2	+43 14.5	6.8
86	+43°	1268	5 16.6	+43 31.1	8.2
87	+43°	1270	5 16.7	+43 52.4	7.4
88	+44°	1203	5 17.3	+44 2.3	7.8
89	+44°	11	[[/strikethrough]] 8	[[/strikethrough]] 95	5 15.0   +44 2.3   7.8
90	+43°	1	[[/strikethrough]] 5	[[/strikethrough]] 250	5 10.5   +43 15.5   8.0



91	+44° 1170	5 9.5	+44 16.4	7.0
92	+44° 1167	5 8.7	+44 29.8	8.5
93	+44° 1165	5 8.6	+44 50.8	8.5
94	+45° 1090	5 8.3	+45 5.3	8.1
95	+45° 1091	5 8.6	+45 3.9	8.8
96	+45° 1094	5 9.7	+45 16.4	8.7
97	+45° 1099	5 10.3	+45 16.4	8.7
98	+44° 1182	5 11.6	+44 55.8	7.4
99	+44° 1146	5 5.0	+44 10.2	8.0
100	+44° 1128	5 2.6	+44 22.9	7.0
101	+44° 1126	5 2.1	+44 14.8	7.5
102	+44° 1117	5 1.0	+44 32.6	8.0
103	+43° 1214	5 1.8	+43 15.6	8.0
104	+43° 1214	5 1.8	+43 15.6	8.0
105	+44° 1158	5 7.5	+44 39.4	8.6
106	+45° 1081	5 6.8	+45 13.4	8.4
107	+45° 1077	5 6.0	+45 50.6	1.0
108	+46° 989	5 5.7	+46 14.9	7.1
109	+46° 985	5 4.8	+46 13.5	7.7
110	+47° 1117	5 4.4	+47 0.1	7.0

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911 (cont.)

I 37391

[[4 column table]]

No. | Class | Int. | Remark

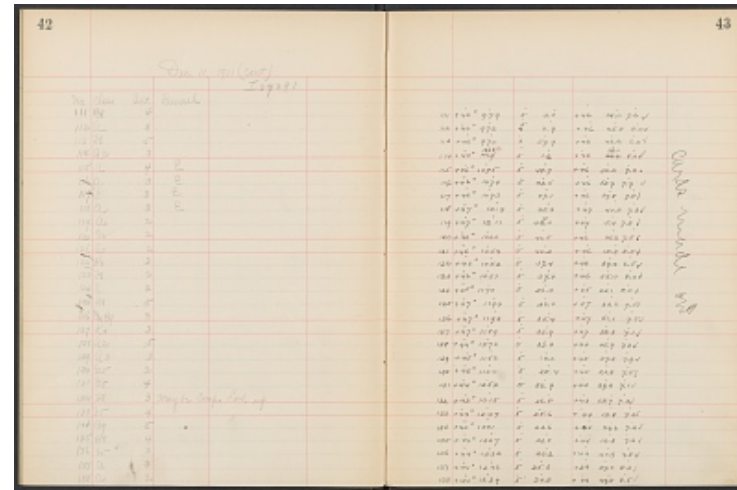
111	B8	4	
112	A	3	
113	F8	5	
114	A2	3	
115	A	4	E
116	A	4	E
117	G	3	E
118	A	3	E
119	A0	2	
120	G5	2	
121	A0	2	
122	K0	3	
123	F8	2	
124	A	2	
125	B8	5	
126	[[/strickethrough]] A [[/strickethrough]] B9   3		
127	K0	3	
128	A2	5	
129	A3	3	
130	G5	2	
131	G5	4	
132	F8	3	Maybe comp. Look up
133	F5	4	
134	B9	5	
135	B8	4	
136	F5	3	
137	A	3	
138	A	2	

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Cards Made Out

[[5 column table]]

111	+46° 979	5 3.0	+46 48.0	7.6
112	+46° 972	[[/strickethrough]] 4	[[/strickethrough]] 5 0.9	+46 45.3   8.0
113	+46° 970	4 59.9	+46 46.6	6.0
114	+45°	[[/strickethrough]] 1117	[[/strickethrough]] 1062	5 1.2   +45
	[[/strickethrough]] 32.6	[[/strickethrough]] 28.0	8.0	
115	+46° 1075	5 48.7	+46 30.0	7.0
116	+46° 1074	5 48.5	+46 53.9	7.9
117	+46° 1073	5 47.1	+46 39.8	7.8
118	+47° 1214	5 45.4	+47 40.8	7.3



119		+47°	1211		5	4	[[ <del>3</del> ]]	4.0		+47	5.4	
120		+46°	1060		5	41.5		+46	45.2		7.5	
121		+46°	1054		5	40.2		+46	15.3		8.5	
122		+46°	1052		5	37.4		+46	39.4		6.5	
123		+46°	1051		5	37.0		+46	55.0		8.0	
124		+45°	1170		5	36.3		+45	42.1		8.0	
125		+47°	1194		5	36.0		+47	23.6		7.5	
126		+47°	1193		5	35.4		+47	51.1		7.5	
127		+47°	1189		5	32.9		+47	38.3		7.1	
128		+44°	1270		5	32.4		+44	45.9		7.3	
129		+45°	1156		5	30.0		+45	37.3		7.9	
130		+45°	1150		5	28.4		+45	20.8		7.5	
131		+44°	1252		5	26.9		+44	29.6		7.1	
132		+43°	1315		5	26.8		+43	58.7		7.3	
133		+44°	1247		5	25.6		+44	12.8		7.2	
134		+43°	1301		5	23.6		+43	49.6		7.2	
135		+44°	1227		5	22.0		+44	16.2		7.6	
136		+44°	1232		5	23.2		+44	40.9		7.8	
137		+44°	1246		5	25.6		+24	39.0		8.0	
138		+44°	1239		5	24.8		+44	49.8		8.5	

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911(Cont)  
I 37391

[[4 column table]]

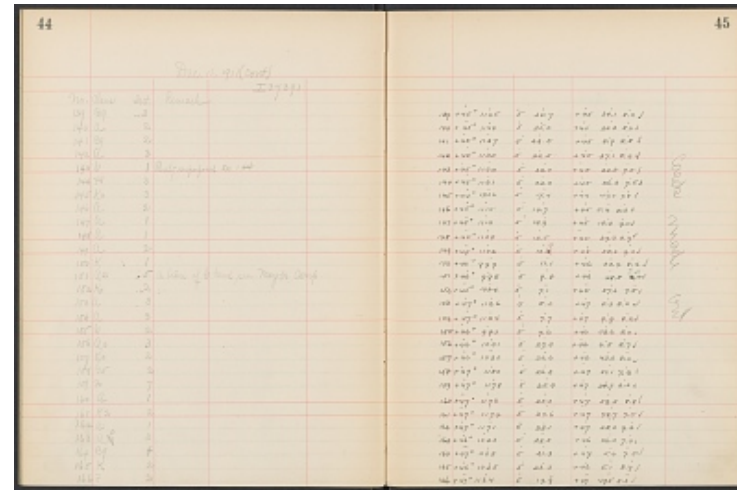
No.	Class	Int.	Remark
139	B9	3	
140	A	2	
141	B9	2	
142	A	3	
143	G	1	Partly superposed on 144
144	F8	3	
145	K0	3	
146	A	2	
147	A	1	
148	A	1	
149	A	2	
150	K	1	
151	A2	5	a trace of G ?? ?? Maybe comp.
152	K0	2	
153	A	3	
154	A	3	
155	G	2	
156	A0	3	
157	K0	2	
158	G5	2	
159	F0	7	
160	A	1	
161	K2	2	
162	A	1	
163	A	[[ <del>strikethrough</del> ]] 2	[[ <del>strikethrough</del> ]] 0   3
164	B9	4	
165	K	2	
166	F	2	

45

Cards made out

[[5 column table]]

139	+45° 1145	5 25.7	+45 34.1	8.0
140	+45° 1144	5 25.0	+45 23.3	8.0
141	+45° 1137	5 23.5	+45 8.9	8.8
142	+45° 1133	5 22.5	+45 37.1	8.3
143	+45° 1132	5 22.0	+45 22.8	7.5
144	+45° 1131	5 22.0	+45 26.3	7.5
145	+44° 1206	5 17.4	+44 47.0	7.8
146	+45° 1115	5 14.7	+45 5.4	8.3
147	+45° 1113	5 13.9	+45 18.3	9.0
148	+45° 1108	5 12.5	+45 29.3	8.9
149	+45° 1102	5 10.0	[[ <del>strikethrough</del> ]] 8	[[ <del>strikethrough</del> ]] 9   +45 58.0
150	+46° 999	5 11.1	+46 33.4	8.4
151	+46° 998	5 9.8	+46 48.8	[[ <del>strikethrough</del> ]] 8.0
152	+45° 1084	5 7.1	+45 57.6	7.8



153		+47°		1126		5 8.0		+47 5.3		8.0
154		+47°		1124		5 7.7		+47 9.9		8.2
155		+46°		993		5 7.6		+46 52.6		8.0
156		+46°		1031		5 27.3		+46 6.5		8.7
157		+46°		1030		5 26.6		+46 43.6		8.0
158		+47°		1180		5 26.3		+47 51.1		7.2
159		+47°		1178		5 25.3		+47 38.7		6.0
160		+47°		1176		5 25.0		+47 52.8		8.8
161		+47°		1174		5 24.6		+47 58.7		7.5
162		+47°		1171		5 22.1		+47 28.0		9.2
163		+46°		1023		5 22.3		+46 46.3		7.3
164		+47°		1168		5 21.3		+47 5.0		7.5
165		+46°		1025		5 23.3		+46 5.1		8.7
166		+47°		1164		5 19.9		+47 47.5		8.3

Project PHaEDRA- Annie Jump Cannon 36  
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Dec. 11, 1911 (cont.)

I 37391

[[4 column table]]

No.	Class	Int.	Remark
167	A	1	
168	G5	2	
169	K5	3	
170	K	2	
171	K	1	
172	B8	3	
173	K	2	
174	K5	3	
175	G	2	
176	F5	2	
177	A	1	
178	K	2	
179	A3	2	
180	A	2	Another star superposed
<del>181</del>	<del>181</del>	<del>181</del>	<del>181</del>

Time 11:14

181 | A3 | 5 | |

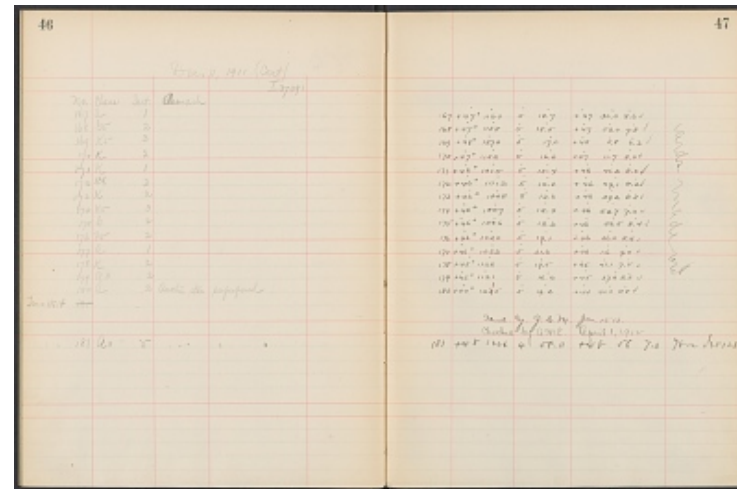
47

Cards Made Out

[[5 column table]]

167	+47° 1160	5 18.7	+47 30.0	8.6
168	+47° 1158	5 18.5	+47 53.0	7.8
169	+48° 1273	5 17.0	+48 5.8	6.2
170	+47° 1152	5 16.6	+47 11.7	8.0
171	+46° 1015	5 15.4	+46 41.2	8.0
172	+46° 1012	5 14.4	+46 49.1	8.2
173	+46° 1008	5 12.6	+46 39.2	8.3
174	+46° 1007	5 12.4	+46 52.7	7.0
175	+46° 1006	5 12.2	+46 50.5	8.4
176	+46° 1020	5 19.1	+46 26.0	8.4
177	+46° 1022	5 21.6	+46 1.6	9.0
178	+45° 1126	5 19.5	+45 41.1	7.5
179	+45° 1121	5 16.2	+45 27.4	8.8
180	+44° 12	<del>181</del>	<del>181</del>	<del>181</del>
181	+44° 12	5 19.2	+44 41.0	8.8

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



181 | +48° 1226 | 4 58.0 | +48 56 | 7.0 78m on I 38125

Project PHaEDRA- Annie Jump Cannon 36  
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December 15, 1911

Time: 9:50 B 10635

[[4 column table]]

No. | Class | Int. | Remark

1	B9	6	
2	G5	2	
3	K0	4	
4	A0	5	
5	K	2	
6	F5	3	
7	G	2	
8	F8	2	
9	A0	6	
10	F0	4	
11	G5	3	
12	G5	5	
13	F0	7	
14	Ma	2	
15	K0	8	
16	F5	3	
17	K5	2	
18	K0	6	
19	K0	3	
20	G5	2	
21	A0	8	
22	K0	6	E
23	F2	6	
24	K2	2	
25	G5	5	
26	K0	7	
27	G	4	

49

Cards Made Out

[[5 column table]]

		R.A. 1900	Dec. 1900	C.D.M.
1	AGC 1025	1 1.8	-36 12 6.5	-36° 417
2	AGC 1084	1 5.5	-37 5 8 1/4	-37° 434
3	AGC 1132	1 8.2	-35 44 6.9	-35° 420
4	AGC 1134	1 8.3	-36 17 7 3/4	-36° 460
5	AGC 1150	1 9.3	-36 43 8 1/2	-36° 470
6	AGC 1158	1 9.8	-37 32 8	-37° 467
7	AGC 1216	1 13.2	-37 3 8 1/2	-37° 493
8	CDM -36° 501	1 12.8	-36 54.6 8.3	
9	AGC 1265	1 15.6	-36 46 7	-36° 510
10	AGC 1244	1 14.7	-35 1 8	-35° 452

11	AGC 1305	1 17.9	-35 11 7 3/4	-35° 472
12	AGC 1310	1 18.1	-37 7 6.6	-37° 521
13	AGC 1301	1 17.6	-37 34 6.6	-37° 516
14	AGC 1417	1 24.3	-37 21 7 1/4	-37° 564
15	AGC 1493	1 27.7	-37 22 5.8	-37° 589
16	CDM -37° 593	1 27.7	-37 57.4 8.4	
17	AGC 1549	1 31.5	-36 58 7 3/4	-37° 603
18	AGC 1590	1 34.0	-37 2 6.2	-37° 620
19	AGC 1612	1 35.2	-37 58 8	-3 <del>7</del>
20	AGC 1632	1 36.1	-36 59 7 1/4	-37° 641
21	AGC 1661	1 37.6	-37 20 5.9	-37° 650
22	AGC 1756	1 43.4	-37 39 6.5	-37° 687
23	AGC 1648	1 37.1	-38 38 6.4	-38° 584
24	AGC 1579	1 33.1	-38 38 7 1/4	-38° 556
25	AGC 947	0 56.9	-38 45 6.6	-38° 344
26	AGC 943	0 56.7	-39 28 5.6	-39° 260
27	AGC 992	1 0.1	-40 0 8	-40° 239

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Dec. 15, 1911 (cont.)

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[[4 column table]]

No. | Class | Int. | Remark

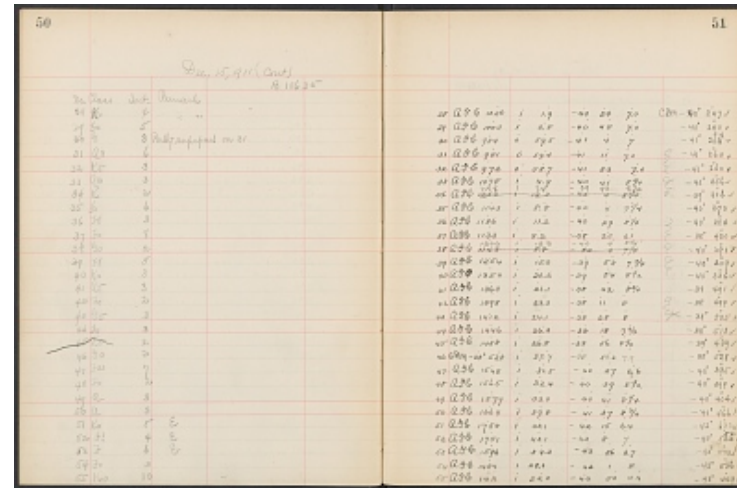
28	K0	4	
29	F10	5	
30	G	3	Partly superposed on 31
31	A3	6	
32	K5	3	
33	A2	3	
34	K	2	
35	F0	6	
36	F8	3	
37	F0	8	
38	G0	2	
39	F8	5	
40	K0	3	
41	A5	3	
42	F0	2	
43	G5	3	
44	F0	3	
45	K5	2	
46	G0	2	
47	F2	7	
48	F0	2	
49	A	3	
50	A	3	
51	K0	5	E
52	F?	4	E
53	F	6	E
54	F0	3	
55	K0	10	

51

Cards Made Out

[[6 column table]]

28	AGC 1026	1 1.9	-40 24	7.0	CDM -40° 247
29	AGC 1003	1 0.8	-40 48	7.0	-40° 240
30	AGC 984	0 59.5	-41 4	7	-41° 26 <del>[[strikethrough]]</del> 3
					<del>[[/strikethrough]]</del> 4
31	AGC 981	0 59.4	-41 11	7.0	-41° 263
32	AGC 972	0 58.7	-41 33	7.0	-41° 260
33	AGC 1078	1 4.9	-40 41	8 3/4	-40° 256
34	AGC <del>[[strikethrough]]</del> 1206	1 12.3	-40 4	8 1/4	<del>[[/strikethrough]]</del>
1118		1 7.4	-39 42	8 1/2	-39° 316



35 | AGC 1143 | 1 8.8 | -40 4 | 7 1/4 | -40° 273  
 36 | AGC 1186 | 1 11.2 | -40 29 | 8 1/4 | -40° 284  
 37 | AGC 1133 | 1 8.2 | -38 23 | 6.1 | -38° 420  
 38 | AGC ~~1143~~ | 1 8.8 | -40 4 | 7 1/4 ~~1143~~  
 1206 | 1 12.3 | -40 4 | 8 1/4 | -40° 291  
 39 | AGC 1254 | 1 15.0 | -39 53 | 7 3/4 | -40° 309  
 40 | AGC 1350 | 1 20.6 | -39 54 | 8 1/2 | -40° 336  
 41 | AGC 1360 | 1 21.1 | -38 42 | 8 3/4 | -38° 491  
 42 | AGC 1398 | 1 23.3 | -38 11 | 8 | -38° 499  
 43 | AGC 1412 | 1 24.1 | -38 28 | 8 | -38° 505  
 44 | AGC 1446 | 1 26.3 | -38 18 | 7 3/4 | -38° 518  
 45 | AGC 1458 | 1 26.8 | -38 56 8 1/4 | -39° 439  
 46 | CDM -38° 528 | 1 27.7 | -38 53.2 | 7.9 | -38° 528  
 47 | AGC 1548 | 1 31.5 | -40 27 | 6.6 | -40° 395  
 48 | AGC 1565 | 1 32.4 | -40 39 | 8 1/2 | -40° 399  
 49 | AGC 1577 | 1 33.0 | -40 41 | 8 1/4 | -40° 404  
 50 | AGC 1664 | 1 37.8 | -41 37 | 8 3/4 | -41° 466  
 51 | AGC 1750 | 1 43.1 | -42 15 | 6.4 | -42° 633  
 52 | AGC 1751 | 1 43.1 | -43 8 | 7 | -43° 5 ~~03~~  
~~52~~  
 53 | AGC 1596 | 1 34.3 | -43 26 | 6.7 | -43° 503  
 54 | AGC 1484 | 1 28.0 | -42 1 | 8 | -42° 536  
 55 | AGC 1411 | 1 24.0 | -43 50 | 3.4 | -43° 449

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Dec. 15, 1911 (cont.)

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[[4 column table]]

No. | Class | Int. | Remark

56 | F0 | 2 | |  
57 | K2 | 4 | |  
58 | G5 | 6 | |  
59 | K0 | 3 | |  
60 | F8 | 3 | |  
61 | K | 3 | |  
62 | F0 | 5 | |  
63 | K2 | 3 | |  
64 | B9 | 5 | |  
65 | K0 | 4 | |  
66 | F8 | 2 | |  
67 | K0 | 3 | |  
68 | F8 | 4 | |  
69 | A2 | 9 | |  
70 | G0 | 4 | |

[[/striketthrough]] 71 [[/striketthrough]]

Time 10:05

53

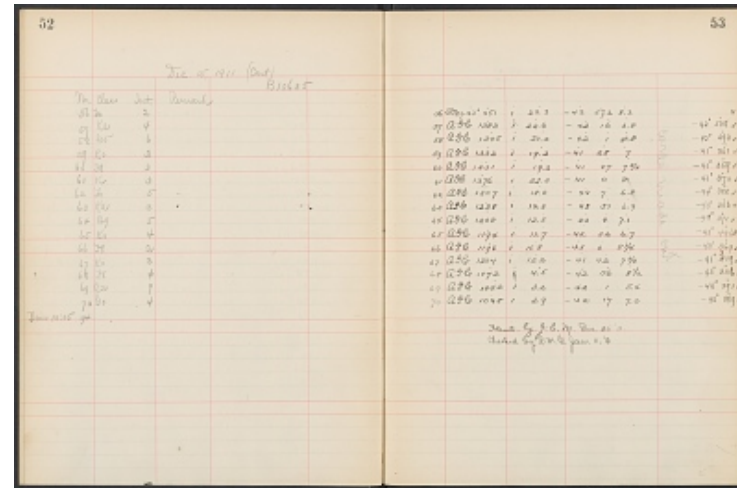
Cards Made Out

[[6 column table]]

56 | CDM -43° 451 | 1 23.3 | -43 57.2 | 8.3 | |  
57 | AGC 1383 | 1 22.6 | -42 16 | 6.8 | -42° 508  
58 | AGC 1345 | 1 20.2 | -42 1 | 5.8 | -42° 493  
59 | AGC 1332 | 1 19.2 | -41 28 | 7 | -41° 361  
60 | AGC 1331 | 1 19.2 | -41 47 | 7 3/4 | -41° 359  
61 | AGC 1376 | 1 22.3 | -41 0 | 8 | -41° 370  
62 | AGC 1307 | 1 18.0 | -44 7 | 6.8 | -44° 388  
63 | AGC 1238 | 1 14.3 | -43 51 | 6.9 | -43° 386  
64 | AGC 1208 | 1 12.5 | -43 4 | 7.1 | -43° 371  
65 | AGC 1194 | 1 11.7 | -42 32 | 6.7 | -42° 446  
66 | AGC 1196 | 1 11.8 | -43 0 | 8 1/4 | -43° 369  
67 | AGC 1204 | 1 12.2 | -41 42 | 7 3/4 | -41° [[/striketthrough]] 4  
[[/striketthrough]] 319  
68 | AGC 1072 | 1 4.5 | -42 56 | 8 1/2 | -43° 336  
69 | AGC 1052 | 1 3.2 | -42 1 | 5.4 | -42° 391  
70 | AGC 1048 | 1 2.9 | -42 17 | 7.0 | -42° 389

Ident. by J.C.M. Dec. 26, '11

Checked by A.M.C. Jan. 11, '12



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January 4, 191~~1~~ ~~1~~ ~~2~~

Time ~~10:59~~ ~~11:05~~ 137446

[[4 column table]]

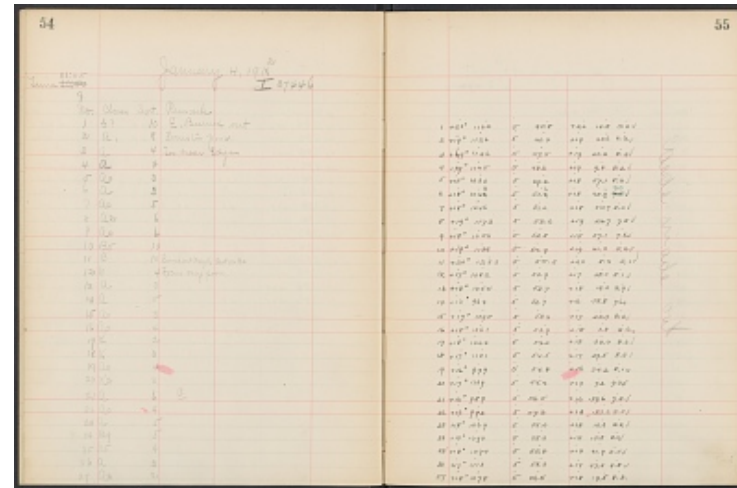
No.	Class	Int.	Remark
1	G?	10	E. Burned out
2	A	8	Focus too poor.
3	A	4	Too near Edge
4	A	4	
5	A0	3	
6	A	3	
7	A0	5	
8	A2	6	
9	A0	6	
10	B5	10	
11	B	10	Burned out. Maybe Oe5 or B0
12	G	4	Focus very poor
13	A	3	
14	A	5	
15	A0	3	
16	A0	4	
17	K	2	
18	K	3	
19	A0	4	
20	K2	3	
21	A	6	E
22	A0	4	
23	A	5	
24	B9	5	
25	G5	4	
26	A	3	
27	A3	2	

55

Cards made out

[[5 column table]]

1	+20° 1162	5 45.8	+20 14.8	5.0
2	+19° 1126	5 46.4	+19 43.6	6.3
3	+ <del>18° 104</del> <del>4</del> <del>1 9° 1136</del> 5 47.5   +19 20.2   8.3			
4	+19° 1145	5 48.6	+19 9.8	8.2
5	+18° 1036	5 49.2	+18 57.1	8.6
6	+18° 104 <del>4</del> <del>0</del> <del>3</del> 5 50. <del>3</del> <del>50.</del> <del>2</del>			
4	<del>6</del> +18 48. <del>9</del> <del>2</del>			
	<del>9.5</del> <del>9.0</del>			
7	+18° 1046	5 51.0	+18 50.7	8.0
8	+19° 1172	5 52.6	+19 24.7	7.8



9		+18° 1056		5 52.8		+18 57.1		7.6
10		+19° 1186		5 54.9		+19 41.3		5.6
11		+20° 1233		5 55.3		+20 8.4		5.1
12		+17° 1082		5 50.9		+17 48.0		8.1
13		+18° 1055		5 52.7		+18 13.0		8.9
14		+16° 964		5 52.7		+16 58.8		7.6
15		+17° 1095		5 53.4		+17 25.3		8.4
16		+18° 1061		5 53.9		+18 0.8		8.6
17		+18° 1064		5 54.2		+18 33.0		8.3
18		+17° 1101		5 54.5		+17 39.5		8.3
19		+16° 979		5 54.8		+16 54.2		8.1
20		+17° 1109		5 55.4		+17 7.2		7.3
21		+16° 989		5 56.5		+16 39.6		7.8
22		+16° 992		5 57.2		+16 33.2		8.3
23		+18° 1069		5 55.0		+18 10.3		8.2
24		+18° 1070		5 55.3		+18 15.8		8.0
25		+18° 1074		5 55.8		+18 41.9		8.5
26		+17° 1113		5 56.3		+17 47.3		8.8
27		+18° 1078		5 56.5		+18 19.5		8.8

Project PHaEDRA- Annie Jump Cannon 36  
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January 4, 191~~1~~ 1 ~~1~~ 2 (Cont)

I 37446

[[4 column table]]

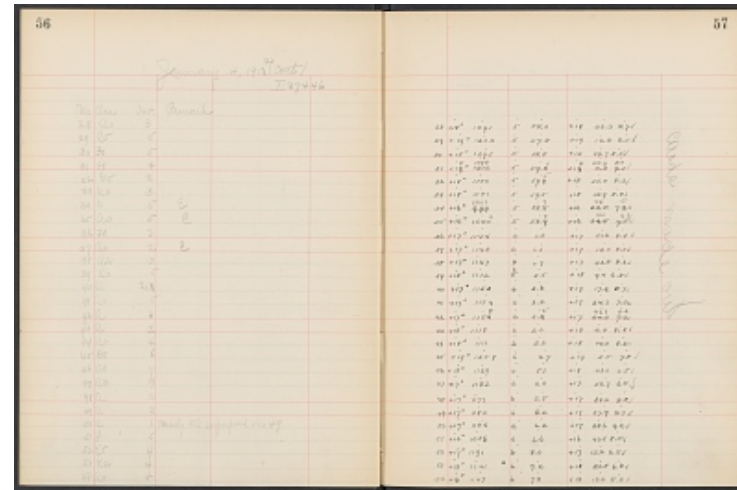
No.	Class	Int.	Remark
28	A0	3	
29	A5	5	
30	F0	5	
31	F8	4	
32	G5	3	
33	A0	3	
34	G	5	E
35	A0	5	E
36	F8	3	
37	A0	2	E
38	A2	3	
39	K0	5	
40	A	<del>1</del>	<del>3</del> <del>2</del>
41	A0	5	
42	A	3	
43	A	2	
44	A0	4	
45	B8	6	
46	B8	7	
47	A3	9	
48	A	2	
49	A	3	
50	A	1	Nearly all superposed on 49
51	F	5	
52	K5	4	
53	K2	4	
54	A0	4	

57

Cards made out

[[5 column table]]

28	+18° 1091	5 58.0	+18 33.3	8.7
29	+19° 1203	5 57.8	+19 14.8	8.5
30	+18° 1095	5 58.8	+18 48.7	8.5
31	+1 <del>1098</del>	5 59. <del>0</del>	<del>8°</del> <del>1216</del>	
	<del>1098</del>	5 59. <del>0</del>	<del>1</del>   +1	
	<del>9 0.3</del>	9.1 <del>8 55.6</del>	8.0	
32	+18° 1100	5 59. <del>4</del>	+18 25.0	8.3
33	+18° 1101	5 59.5	+18 40.9	8.8
34	+16° <del>999</del>	<del>1001</del>	5 58.	
	<del>5</del>	7   +16	23.0	7.2



~~3.4~~ | 7.5  
 35 | +16° 100 ~~1~~ | 4 | 5 58.  
~~7~~ | 9 | +16 ~~34.5~~ | 7.5  
~~4.4~~ | 8.2  
 36 | +17° 1144 | 6 1.0 | +17 51.6 | 8.4  
 37 | +17° 1143 | 6 1.0 | +17 12.0 | 8.5  
 38 | +17° 1147 | 6 1.7 | +17 43.8 | 8.3  
 39 | +18° 1112 | ~~5~~ | 6 2.5 | +18 9.4 | 6.8  
 40 | +17° 1153 | 6 2.6 | +17 17.2 | 8.7  
 41 | +17° 1154 | 6 3.2 | +17 24.3 | 7.3  
 42 | +17° 115 ~~4~~ | 8 | 6 3. ~~8~~  
 2 | ~~5~~ | +17 ~~24.3~~ | 7.3 ~~7.3~~  
 47.7 | 8.2  
 43 | +18° 1118 | 6 3.0 | +18 16.4 | 8.8  
 44 | +18° 1111 | 6 2.2 | +18 44.0 | 8.2  
 45 | +19° 1259 | 6 4.7 | +19 2.5 | 7.8  
 46 | +18° 1129 | 6 5.0 | +18 43.0 | 6.5  
 47 | +17° 1182 | 6 6.0 | +17 56.7 | 6.5  
 48 | +17° 1177 | 6 5.5 | +17 34.0 | 8.8  
 49 | +17° 1183 | 6 6.2 | +17 27.7 | 8.7  
 50 | +17° 1184 | 6 6.2 | +17 28.6 | 9.2  
 51 | +16° 1056 | 6 6.6 | +16 47.5 | 8.0  
 52 | +17° 1191 | 6 8.0 | +17 13.2 | 6.5  
 53 | +18° 1141 | 6 7.2 | +18 20.5 | 6.8  
 54 | +18° 1147 | 6 7.8 | +18 12.0 | 8.2

Project PHaEDRA- Annie Jump Cannon 36  
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January 4, 1912 (Cont)

137446

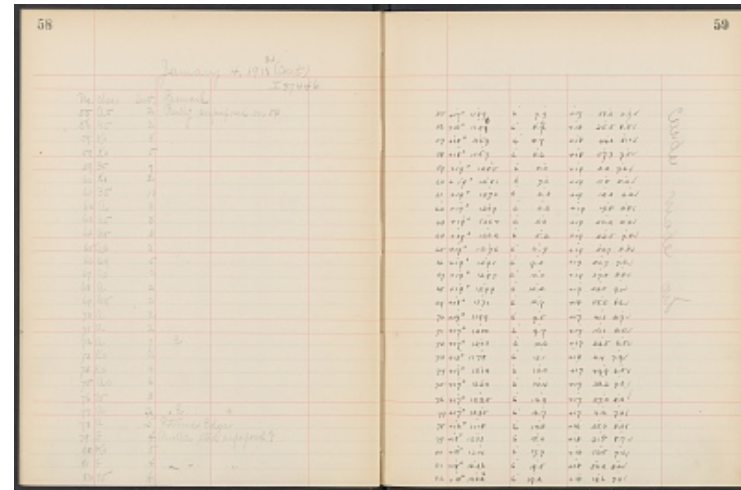
[[4 column table]]

No.	Class	Int.	Remark
55	A5	2	Partly Superposed
56	G5	2	
57	K0	3	
58	K0	5	
59	F5	7	
60	K0	2	
61	F5	10	
62	A	3	
63	G5	3	
64	G5	3	
65	Q2	3	
66	B9	5	
67	Q0	2	
68	A	2	
69	G5	2	
70	A	2	
71	A	2	
72	A	7	E
73	K0	2	
74	K0	4	
75	A0	6	
76	F5	3	
77	A	7	E
78	A	5	Extreme Edge
79	F	4	Another star superposed
80	K0	5	
81	F	4	
82	F5	4	

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Cards Made Out  
[[5 column table]]

55	+17°	1189	6 7.9	+17 58.6	8.9
56	+18°	1156	6 8.6	+18 25.5	8.5
57	+18°	1159	6 8.7	+18 44.3	8.1
58	+18°	1157	6 8.6	+18 57.7	7.5
59	+19°	1285	6 8.0	+19 3.2	7.6
60	+19°	1281	6 7.6	+19 5.8	8.2
61	+19°	1270	6 6.3	+19 12.3	6.2
62	+19°	1269	6 6.2	+19 19.8	8.8
63	+19°	1264	6 5.6	+19 30.2	8.4
64	+19°	1262	6 5.2	+19 22.5	7.8
65	+19°	1276	6 6.9	+19 33.7	8.8
66	+19°	1291	6 9.3	+19 30.7	7.6



67		+19°	1297		6	10.0		+19	37.3		8.8
68		+19°	1299		6	10.2		+19	23.5		9.0
69		+18°	1171		6	10.7		+18	55.5		8.6
70		+17°	1199		6	9.5		+17	41.1		8.7
71		+17°	1200		6	9.7		+17	10.1		8.5
72		+17°	1203		6	10.6		+17	22.5		6.5
73		+18°	1178		6	12.1		+18	6.4		7.9
74		+17°	1214		6	13.0		+17	49.9		6.5
75		+17°	1224		6	14.4		+17	38.2		7.0
76		+17°	1225		6	14.9		+17	27.3		8.4
77		+17°	1235		6	16.7		+17	4.2		7.4
78		+16°	1118		6	14.8		+16	35.0		8.0
79		+18°	1203		6	15.4		+18	31.5		8.7
80		+18°	1214		6	17.7		+18	50.5		7.4
81		+18°	1226		6	19.5		+18	54.2		8.0
82		+18°	1224		6	19.2		+18	18.6		7.8

Project PHaEDRA- Annie Jump Cannon 36  
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January 4, 1912 (Cont.)  
I 37446

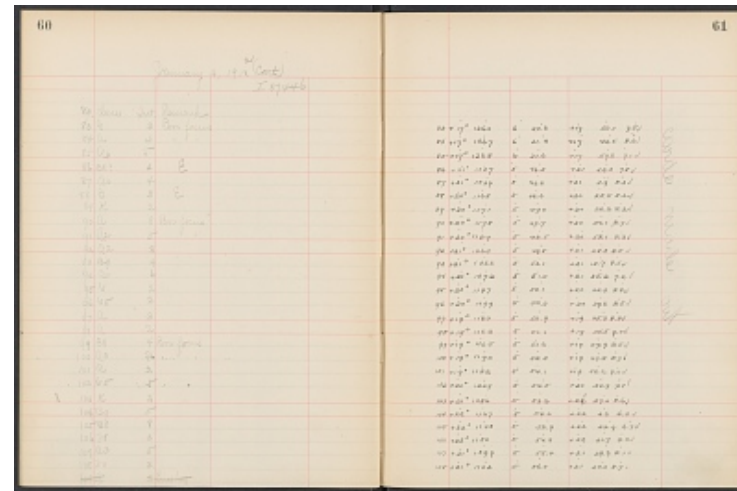
[[4 column table]]

No.	Class	Int.	Remark
83	G   3		Poor Focus
84	A   4		
85	A0   5		
86	B8?   4	E	
87	A0   4		
88	G   3	E	
89	K   2		
90	A   3		Poor Focus
91	Q2   5		
92	A2   3		
93	B9   4		
94	Q0   6		
95	G   2		
96	G5   2		
97	A   3		
98	A   2		
99	B8   4		Poor Focus
100	Q3   2		
101	A   2		
102	G5   5		
103	K   2		
104	B9   5		
105	B8   8		
106	F8   3		
107	Q3   5		
108	F0   3		

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Cards Made Out  
[[5 column table]]

83	+17° 1260	6 20.6	+17 50.1	7.5
84	+17° 1267	6 21.4	+17 42.5	8.0
85	+17° 1268	6 21.6	+17 59.6	7.1
86	+21° 1037	5 46.3	+21 22.3	7.8
87	+21° 1039	5 46.6	+21 2.9	8.3
88	+20° 1168	5 46.6	+20 25.5	8.6
89	+20° 1171	5 47.0	+20 26.2	8.2
90	+20° 1178	5 47.7	+20 34.1	8.7
91	+20° 1187	5 48.5	+20 58.1	8.3
92	+21° 1063	5 49.8	+21 28.3	8.5
93	+21° 1066	5 50.1	+21 12.7	8.5
94	+21° 1072	5 51.0	+21 35.2	7.2
95	+20° 1197	5 50.1	+20 43.3	8.8
96	+20° 1199	5 50.3	+20 39.6	8.5
97	+19° 1160	5 50.9	+19 45.3	8.8
98	+19° 1162	5 51.1	+19 55.5	9.0
99	+19° 1165	5 51.6	+19 57.9	8.5
100	+19° 1170	5 52.3	+19 47.8	8.7



101		+19°		1182		5 54.1		+19 56.2		9.0
102		+20°		1229		5 54.5		+20 34.9		7.7
103		+21°		1086		5 53.2		+21 27.0		8.6
104		+22°		1147		5 54.0		+22 2.6		8.3
105		+22°		1140		5 52.9		+22 23.9		6.7
106		+22°		1150		5 54.3		+22 21.7		8.3
107		+21°		1099		5 55.4		5 55.4		+21 29.9   8.1
108		+21°		1102		5 56.0		+21 24.0		8.7

Project PHaEDRA- Annie Jump Cannon 36  
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January 4, 1912 (Cont.)

I 37446

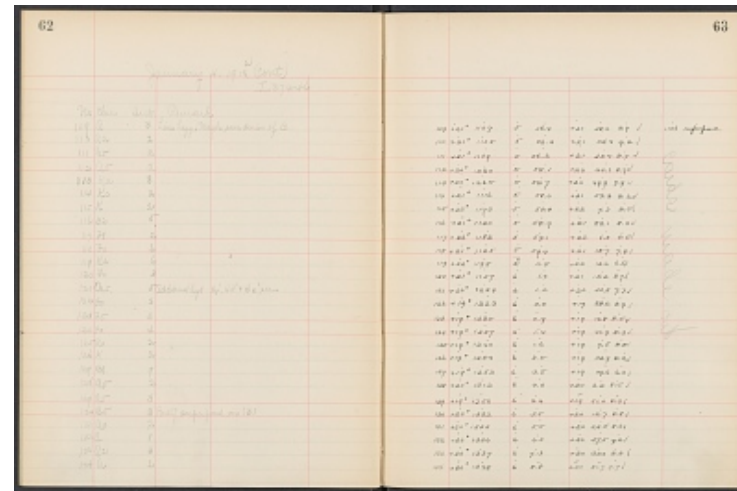
[[4 column table]]

No.	Class	Int.	Remark
109	A   3		Lines hazy, maybe some division of B
110	A2   2		
111	G5   2		
112	A5   2		
113	K2   3		
114	K0   2		
115	K   2		
116	B2   5		
117	F8   2		
118	F0   6		
119	K2   6		
120	F0   3		
121	O15   5		Additional hyd. H gamma, H delta, + H epsilon seen
122	F0   3		
123	F5   3		
124	F0   4		
125	A0   2		
126	K   2		
127	B8   9		
128	A5   2		
129	A5   3		
130	B5   3		Partly superposed on 131
131	A0   2		
132	A   1		
133	A2   3		
134	A   2		

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Cards Made Out  
[[5 column table]]

109	+21° 1107	5 56.4	+21 38.0	8.9
110	+21° 1105	5 56.3	+21 52.4	9.2
111	+21° 1109	5 56.6	+21 23.4	8.7
112	+20° 1260	5 58.1	+20 44.1	8.7
113	+20° 1265	5 58.7	+20 49.9	7.9
114	+21° 1116	5 58.0	+21 53.8	8.2
115	+22° 1173	5 58.4	+22 7.3	8.5
116	+21° 1120	5 58.9	+21 53.1	8.0
117	+22° 1182	5 59.1	+22 1.3	8.5
118	+21° 1125	5 59.4	+21 18.7	7.8
119	+22° 1198	6 0.8	+22 12.6	6.5
120	+21° 1137	6 1.4	+21 15.2	8.7
121	+20° 1284	6 1.0	+20 30.8	7.7
122	+19° 1223	6 0.0	+19 28.6	8.9



123	+19°	1235	6 0.9	+19 14.8	8.5
124	+19°	1237	6 1.4	+19 41.9	8.3
125	+19°	1240	6 1.6	+19 7.5	8.8
126	+19°	1254	6 3.5	+19 32.9	8.2
127	+19°	1253	6 3.5	+19 49.6	6.0
128	+20°	1312	6 4.4	+20 6.2	8.5
129	+19°	1256	6 4.4	+19 51.0	8.3
130	+20°	1322	6 5.5	+20 12.7	8.8
131	+20°	1323	6 5.5	+ 20 22.5	8.6
132	+20°	1326	6 6.0	+20 37.5	9.2
133	+20°	1337	6 7.3	+20 33.0	8.8
134	+20°	1348	6 8.8	+20 51.7	8.7

Project PHaEDRA- Annie Jump Cannon 36  
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January 4, 191 ~~1~~ ~~2~~ (cont.)

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[[4 column table]]

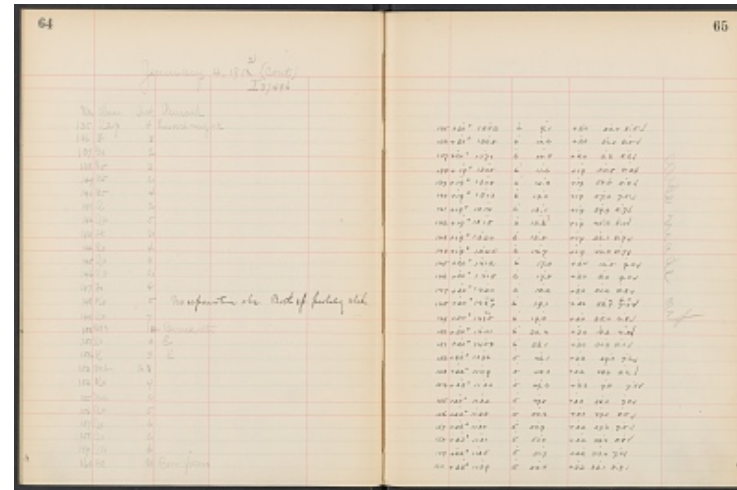
No.	Class	Int.	Remark
135	A2p	4	Line 4026 nearly = K
136	F	3	
137	G0	2	
138	G5	3	
139	G5	2	
140	G5	4	
141	A	2	
142	A2	5	
143	F8	2	
144	A0	4	
145	A0	3	
146	A3	2	
147	F0	4	
148	K0	5	No separation obs.
149	A0	7	
150	B8?	10+	Burned out
151	A0	3	E
152	K	3	E
153	Mb	<del>3</del>	<del>2</del>
154	K0	4	
155	Ma	2	
156	A0	5	
157	A0	6	
158	A0	2	
159	A2	6	
160	B8	2	Poor focus

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Cards Made Out

[[5 column table]]

135	+20°	1352	6 9.1	+20 30.0	8.5
136	+20°	1368	6 1-.6	+20 31.0	8.5
137	+20°	1371	6 10.8	+20 3.6	8.6
138	+19°	1305	6 11.6	+19 55.8	8.2
139	+19°	1308	6 12.4	+19 58.8	8.4
140	+19°	1313	6 13.0	+19 57.3	7.5
141	+19°	1314	6 13.1	+19 39.9	8.7
142	+19°	1318	6 13.	<del>6</del> <del>7</del> +19 45.6	8.0
143	+19°	1320	6 13.8	+19 26.1	8.7
144	+19°	1325	6 14.7	+19 44.3	8.7
145	+20°	1412	6 17.3	+20 10.5	9.0



146	+20°	1418	6 17.8	+20 8.0	9.0
147	+20°	1420	6 18.2	+20 31.2	8.3
148	+20°	14	<del>1</del>	<del>67</del>	6 19.1   +20
52.7	<sup>^</sup>	[[.2]]		7.0	<sup>^</sup> [[8.0]]
149	+20°	14	<del>1</del>	<del>28</del>	6 19.3   +20 35.0
6.8					
150	+20°	1441	6 20.4	+20 18.2	4.3
151	+20°	1454	6 22.1	+20 30.9	8.0
152	+22°	1096	5 46.1	+22 29.0	7.6
153	+22°	1109	5 48.3	+22 48.6	8.2
154	+23°	1130	5 49.6	+23 7.8	7.5
155	+23°	1132	5 49.8	+23 38.4	7.8
156	+22°	1123	5 50.4	+22 47.3	8.5
157	+22°	1130	5 50.9	+22 27.4	7.5
158	+22°	1131	5 51.0	+22 38.4	8.8
159	+22°	1135	5 51.7	+22 53.4	7.0
160	+22°	1139	5 52.4	+22 32.1	8.9

Project PHaEDRA- Annie Jump Cannon 36  
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January 4, 191 ~~1~~ ~~2~~ (cont.)

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[[4 column table]]

No. | Class | Int. | Remark

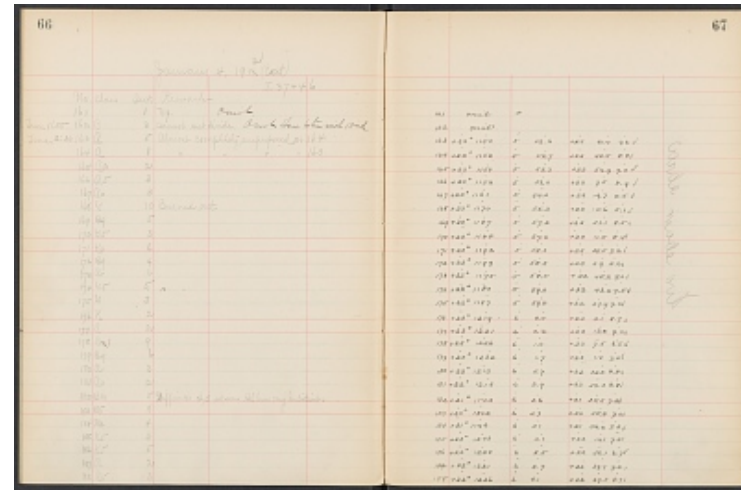
161				N.p. Omit
Time 11:55				
162	B	3		Cannot subdivide. Omit. Have taken with 10 inch
Time 2:30				
163	A	5		Almost completely superposed on 164
164	A	1		Almost completely superposed on 163
165	A2	2		
166	A5	3		
167	A0	3		
168	G	10		Burned out
169	B9	5		
170	G5	3		
171	K0	6		
172	B9	4		
173	A	2		
174	G5	5		E
175	G	3		
176	K	2		
177	A	2		
178	B	<del>[[/strickethrough]]</del>	<del>0</del>	<del>[[/strickethrough]]</del> 1   9
179	B9	6		
180	A	3		
181	A0	2		
182	B2	5		Difficult. H beta not seen. Hel lines very indistinct.
183	B5	8		
184	Ma	4		
185	K5	3		
186	K5	5		
187	A	2		
188	A5	3		

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[[right margin]]  
Cards Made Out  
[[/right margin]]

[[5 column table]]

161	Omit				
162	Omit				
163	+23° 1150	5 52.6	+23 41.4	7.6	
164	+23° 1152	5 52.7	+23 43.5	8.4	
165	+23° 1156	5 53.3	+23 54.9	9.0	
166	+23° 1154	5 53.0	+23 7.5	8.9	
167	+23° 1161	5 54.0	+23 19.7	8.5	
168	+23° 1170	5 55.3	+23 15.6	5.1	



169	+23°	1187	5 57.2	+23 31.1	8.5
170	+23°	1188	5 57.6	+23 11.5	8.4
171	+23°	1192	5 58.0	+23 38.5	7.2
172	+23°	1199	5 58.3	+23 3.9	8.6
173	+22°	1175	5 58.5	+22 45.2	9.0
174	+22°	1180	5 59.0	+22 43.4	7.5
175	+22°	1187	5 59.8	+22 37.9	9.0
176	+23°	1219	6 0.0	+23 0.1	8.7
177	+23°	1221	6 0.2	+23 13.0	9.3
178	+23°	1226	6 1.0	+23 7.5	6.5
179	+23°	1232	6 1.7	+23 1.4	7.4
180	+22°	1213	6 2.7	+22 32.2	8.8
181	+22°	1215	6 2.9	+22 34.3	8.8
182	+21°	1143	6 2.6	+21 35.5	7.8
183	+20°	1302	6 2.7	+20 55.8	7.0
184	+21°	1146	6 3.1	+21 54.0	7.3
185	+23°	1243	6 3.1	+23 14.1	7.3
186	+22°	1220	6 3.5	+22 56.1	6.7
187	+22°	1221	6 3.7	+22 39.7	9.2
188	+22°	1226	6 4.1	+22 29.5	8.7

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January ~~4~~ ~~5~~, 191 ~~1~~ ~~2~~ (cont.)

I 37446

[[4 column table]]

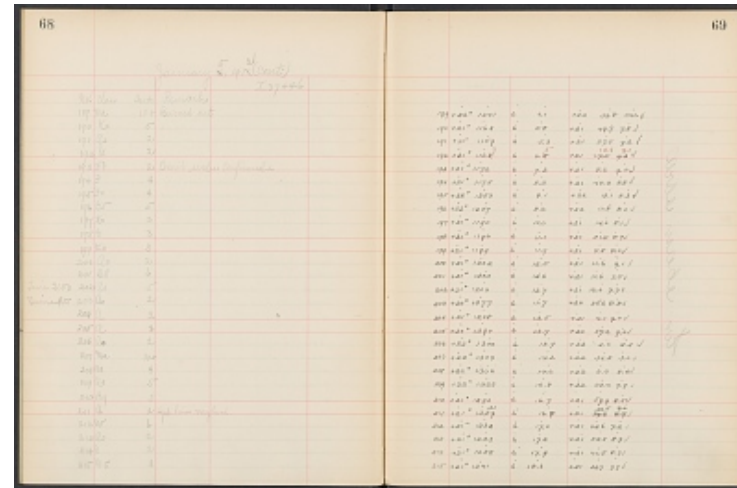
No.	Class	Int.	Remark
189	Ma	10+	Burned out
190	K0	5	
191	A0	2	
192	G	2	
193	F?	2	Omit unless confirmed
194	F	4	
195	F0	4	
196	G5	5	
197	K0	3	
198	G	3	
199	K0	3	
200	A0	2	
201	B8	6	
Time 2:50			
202	A0	5	
Time 9:55			
203	A0	2	
204	A	2	
205	A	3	
206	A0	2	
207	Ma	10+	
208	B8	4	
209	A3	5	
210	B9	3	
211	A	2	Hyd. lines very broad
212	G5	6	
213	A0	2	
214	G	2	
215	G5	3	

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Cards Made Out

[[5 column table]]

189	+22° 1241	6 6.1	+22 32.8	var.
190	+21° 1163	6 5.8	+21 49.7	7.8
191	+21° 1159	6 5.3	+21 27.5	9.2
192	+21° 116	<del>8</del>	<del>7</del>	6 6.
<del>8</del> <del>5</del> +21 <del>7.5</del>   9.3				
<del>14.8</del>   9.1				
193	+21° 1172	6 7.2	+21 8.6	9.0
194	+21° 1178	6 8.3	+21 40.3	8.8
195	+22° 1253	6 8.1	+22 13.1	8.3
196	+22° 1257	6 8.6	+22 11.8	8.0
197	+21° 1190	6 10.0	+21 14.0	8.1



198		+21°		1196		6		11.1		+21		31.8		8.7
199		+21°		1199		6		11.9		+21		8.8		8.0
200		+21°		1202		6		12.5		+21		11.6		9.1
201		+21°		1203		6		12.6		+21		11.6		7.5
202		+21°		1204		6		12.7		+21		16.0		7.7
203		+20°		1377		6		11.7		+20		35.6		8.8
204		+21°		1208		6		13.5		+21		4.1		9.0
205		+20°		1390		6		13.7		+20		57.2		9.0
206		+22°		1300		6		13.7		+22		2.6		8.8
207		+22°		1304		6		14.2		+22		34.8		3.0
208		+22°		1306		6		14.6		+22		3.3		8.4
209		+22°		1323		6		16.8		+22		32.0		7.7
210		+22°		1230		6		16.7		+21		59.9		8.5
211		+21°		12		<del>29</del>		31		6		16.9		+21
				<del>39.8</del>		8.7		<del>36.5</del>		9.0				
212		+21°		1232		6		17.0		+21		43.6		7.2
213		+21°		1233		6		17.2		+21		53.3		8.9
214		+21°		1238		6		17.9		+21		41.5		8.7
215		+21°		1241		6		18.6		+21		22.7		7.7

Project PHaEDRA- Annie Jump Cannon 36  
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January 5, 191 ~~1~~ ~~2~~ (cont)

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[[4 column table]]

No. | Class | Int. | Remark

216	A3	4	
217	A0	6	
218	A2	2	
219	G5	2	
220	G	4	E
221	F	5	E
222	A	6	E
223	A0	7	E
224	F0	3	
225	A	2	
226	A2	2	
227	A5	2	
228	A0	8	
228a	G5	3	Nearly all superposed on No. 228
229	F0	5	
230	G5	2	
231	F2	3	
232	A2	4	
233	A0	2	
234	G5	3	
235	A	2	
236	A	2	E
237	G	2	E
238	A0	2	
239	B9	2	
240	A0	3	E
241	B2	7	Difficult. Lines show little contrast. E
242	B8	5	Difficult. E

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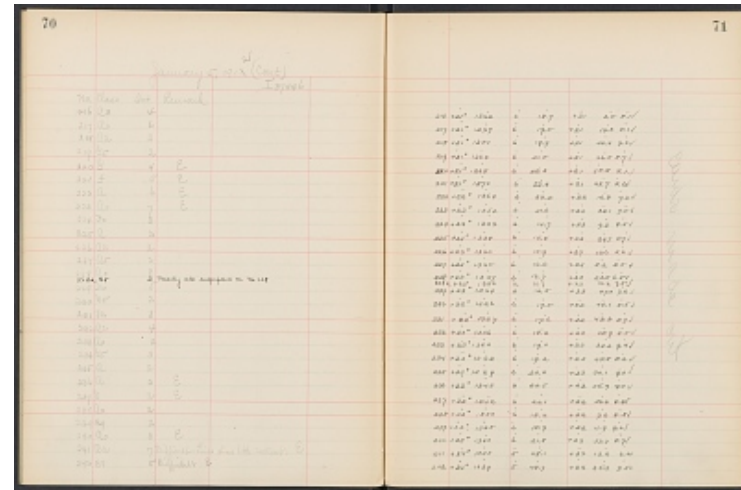
[[right margin]]

Cards Made Out

[[/right margin]]

[[5 column table]]

216	+21° 1242	6 18.7	+21 3.5	8.1
217	+21° 1247	6 19.5	+21 14.3	8.1
218	+21° 1251	6 19.9	+21 40.4	9.0
219	+21° 1264	6 21.5	+21 46.5	8.7
220	+21° 1268	6 22.3	+21 53.8	8.1
221	+21° 1270	6 22.4	+21 48.7	8.6
222	+22° 1364	6 23.2	+22 16.8	7.2
223	+22° 1352	6 21.6	+22 38.1	7.5
224	+23° 1334	6 14.7	+23 9.2	8.5
225	+23° 1338	6 15.8	+23 29.7	8.7
226	+23° 1340	6 15.9	+23 13.6	8.6
227	+23° 1345	6 16.6	+23 8.2	8.5
228	+23° 1347	6 16.7	+23 23.8	6.8



228a	+23° 1346	6 16.7	+23 31.2	7.5
229	+23° 1344	6 16.5	+23 47.4	7.2
230	+22° 1326	6 17.5	+22 48.1	8.5
231	+22° 1327	6 17.6	+22 48.8	8.7
232	+23° 1356	6 18.2	+23 48.9	8.5
233	+23° 1360	6 19.0	+23 32.2	9.4
234	+23° 1362	6 19.2	+23 45.8	8.2
235	+23° 1369	6 20.0	+23 30.1	9.0
236	+22° 1343	6 20.5	+22 55.9	9.0
237	+22° 1342	6 20.1	+22 36.6	8.8
238	+22° 1330	6 18.4	+22 7.6	8.8
239	+22° 1335	6 18.9	+22 11.9	9.0
240	+23° 1380	6 21.8	+23 37.7	8.7
241	+24° 1033	5 48.1	+24 13.2	6.0
242	+24° 1039	5 48.7	+24 35.3	7.5

Project PHaEDRA- Annie Jump Cannon 36  
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January 5, 191 ~~1~~ 2 (cont.)

I 37446

[[4 column table]]

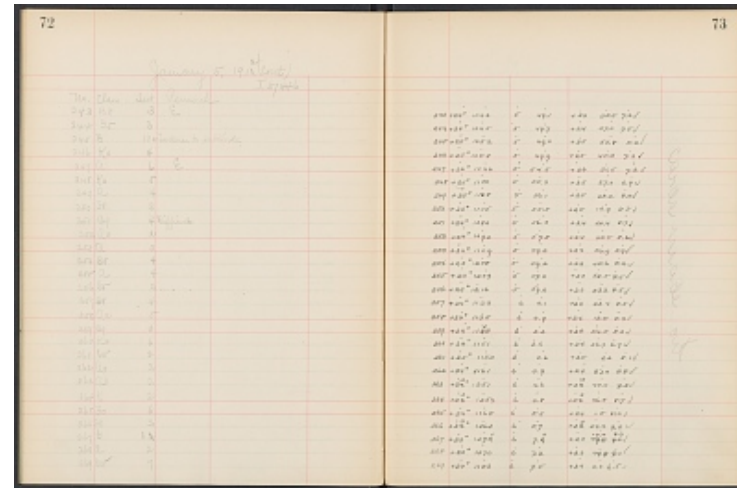
No.	Class	Int.	Remark
243	B8	3	E
244	G5	3	
245	B	10+	Too dense to subdivide
246	K0	4	
247	A	6	E
248	K0	5	
249	A	4	
250	F8	3	
251	B9	4	Difficult
252	A0	2	
253	A	3	
254	B8	4	
255	A	4	
256	G5	2	
257	B8	4	
258	A2	5	
259	B9	3	
260	K0	6	
261	G5	2	
262	A0	2	
263	A3	2	
264	K	2	
265	F0	6	
266	F8	2	
267	G	<del>2</del> 1	
268	A	2	
269	G5	7	

73

[[right margin]]  
Cards Made Out  
[[right margin]]

[[5 column table]]

243	+24° 1043	5 49.1	+24 35.5	7.6
244	+24° 1045	5 49.7	+24 47.0	7.5
245	+25° 1052	5 49.0	+25 55.8	5.2
246	+25° 1058	5 49.9	+25 45.3	7.3
247	+26° 1046	5 54.5	+26 31.5	7.2
248	+25° 1100	5 55.3	+25 27.0	6.9
249	+25° 1108	5 56.1	+25 48.2	8.0
250	+25° 1105	5 55.8	+25 10.9	8.5
251	+24° 1086	5 56.3	+24 20.4	8.7
252	+24° 1092	5 57.8	+24 45.5	8.6
253	+24° 1109	5 59.2	+24 54.9	8.9
254	+23° 1208	5 59.2	+23 45.6	8.2



255 | +23° 1209 | 5 59.3 | +23 52.5 | 8.5  
 256 | +23° 1216 | 5 59.6 | +23 23.2 | 8.5  
 257 | +24° 1123 | 6 0.1 | +24 22.4 | 8.5  
 258 | +24° 1135 | 6 0.9 | +24 13.5 | 8.4  
 259 | +24° 11 ~~3~~ ~~48~~ | 6 2.2 | +24 54.5 |  
 8.3  
 260 | +24° 1151 | 6 2.6 | +24 26.7 | 6.7  
 261 | +25° 1153 | 6 2.6 | +25 2.2 | 8.1  
 262 | +24° 1161 | 6 3.9 | +24 27.0 | 8.8  
 263 | +2 ~~3~~ ~~1251~~ | 6 4.6 | +2  
~~4~~ ~~3 40.0~~ | 9.2  
 264 | +2 ~~4~~ ~~3~~ ~~4~~ |  
~~3~~ ~~1254~~ | 6 4.8 | +2 ~~4~~ ~~3~~  
 46.5 | 8.7  
 265 | +24° 1168 | 6 5.3 | +24 1.5 | 8.0  
 266 | +2 ~~3~~ ~~4~~ ~~4~~ |  
~~3~~ ~~1262~~ | 6 5.9 | +2 ~~4~~ ~~3~~  
 24.4 | 9.0  
 267 | +23° 127 ~~0~~ ~~1~~ | 6 7.  
~~2~~ ~~3~~ | +23 ~~49.8~~ | 9.0  
~~314.0~~ | 8.3  
 268 | +23° 1270 | 6 7.2 | +23 49.8 | 9.0  
 269 | +24° 1182 | 6 7.5 | +24 0.4 | 6.5

Project PHaEDRA- Annie Jump Cannon 36  
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January 5, 1912 ~~1911~~ (cont)

137446

[[4 column table]]

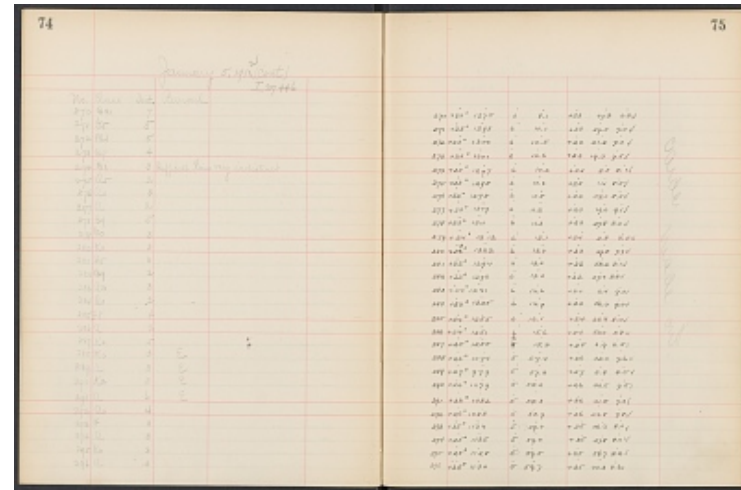
No.	Class	Int.	Remark
270	B2	7	
271	G5	5	
272	B1	5	
273	B9	4	
274	B1	3	Difficult. Line very indistinct
275	A5	2	
276	A0	3	
277	A	2	
278	B9	5	
279	G0	3	
280	K0	3	
281	F5	3	
282	B9	2	
283	A2	3	
284	A0	2	
285	F8	4	
286	A	2	
287	K0	5	
288	K0	3	E
289	A	3	E
290	K2	3	E
291	A	6	E
292	A0	4	
293	F	3	
294	A	3	
295	K0	3	
296	A	3	

75

Cards made out

[[5 column table]]

270	+23°	1275	3 8.1	+23 47.8	6.8	[[checkmark]]
271	+23°	1293	6 10.1	+23 39.3	7.0	[[checkmark]]
272	+23°	1300	6 10.5	+23 31.2	7.3	[[checkmark]]
273	+23°	1301	6 10.6	+23 19.3	7.5	[[checkmark]]
274	+23°	1297	6 10.2	+23 3.3	8.1	[[checkmark]]
275	+23°	1298	6 10.4	+23 1.4	8.5	[[checkmark]]
276	+22°	1278	6 10.8	+22 53.0	8.5	[[checkmark]]
277	+23°	1309	6 11.2	+23 19.6	9.1	[[checkmark]]
278	+23°	1311	6 11.3	+23 27.8	8.2	[[checkmark]]
279	+24°	1212	6 12.1	+24 2.8	8.5	[[checkmark]]
280	+23°	<del>1322</del>	3 13.0	+23 49.8		
281	+22°	1294	6 13.0	+22 58.2	8.1	[[checkmark]]



282	+22°	1296	6 13.3	+22 37.4	8.8	[[checkmark]]
283	+24°	1241	6 14.6	+24 6.4	9.1	[[checkmark]]
284	+23°	1335	6 14.9	+23 56.0	9.0	[[checkmark]]
285	+24°	1255	6 16.1	+24 22.4	8.0	[[checkmark]]
286	+24°	1251	6 15.6	+24 50.0	8.8	[[checkmark]]
287	+25°	1255	6 <del>[[strikethrough]]</del>	5 <del>[[/strikethrough]]</del>	15.8	+25 6.9
6.5						[[checkmark]]
288	+26°	1074	5 57.4	+26 32.0	7.6	[[checkmark]]
289	+27°	979	5 57.4	+27 3.8	8.5	[[checkmark]]
290	+26°	1079	5 58.0	+26 40.5	7.5	[[checkmark]]
291	+26°	1082	5 58.6	+26 41.8	7.0	[[checkmark]]
292	+26°	1088	5 58.9	+26 24.8	7.8	[[checkmark]]
293	+25°	1124	5 59.0	+25 56.3	8.0	[[checkmark]]
294	+25°	1125	5 59.0	+25 27.8	8.0	[[checkmark]]
295	+25°	1128	5 59.5	+25 58.7	8.2	[[checkmark]]
296	+25°	1130	5 59.7	+25 40.3	8.6	[[checkmark]]

Project PHaEDRA- Annie Jump Cannon 36  
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January 5, 191 ~~1~~ ~~2~~ (Cont.)  
I 37446

[[4 column table]]

No.	Class	Int.	Remark
297	K5?	3	Maybe Ma. E
298	A0	4	
299	A0	4	
300	K5	3	
301	K5	2	
302	A	5	E
303	K2	3	
304	G0	4	
305	A	7	E

Time 10:25

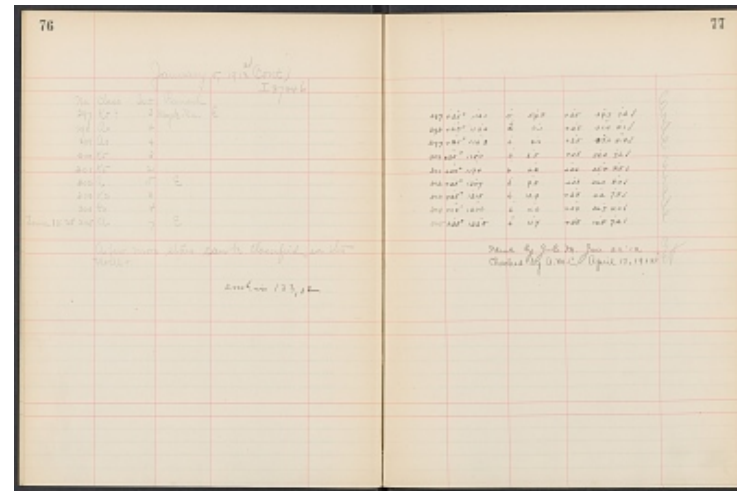
A few more stars can be classified in the north.  
cont. 133, 12

77  
Cards Made Out

[[5 column table]]

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

Ident. by J.C.M. Jan. 22, '12  
Checked by A.M.C. April 17, 1912



Project PHaEDRA- Annie Jump Cannon 36  
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January 7, 1912 ~~1911~~ (cont)

I 37415

[[4 column table]]

No.	Class	Int.	Remark
28	F5	4	
29	K0	3	
30	A3	6	
31	K0	3	
32	B9	3	
33	A2	8	
34	F	2	
35	K	2	
36	G5	3	Another star superposed towards South
37	A0p	7	Line 4128-31 strong. Probably like Tau 9 Eridani
38	G5	2	
39	F0	3	
40	A0	4	
41	A5	5	E
42	A2	3	
43	F5	4	
44	K0	7	
45	G5	8	
46	A0	3	
47	G5	2	
48	G	1	
49	K0	8	
50	A5	2	
51	A2	2	
52	A2	5	
53	F5	21	
54	K0	3	

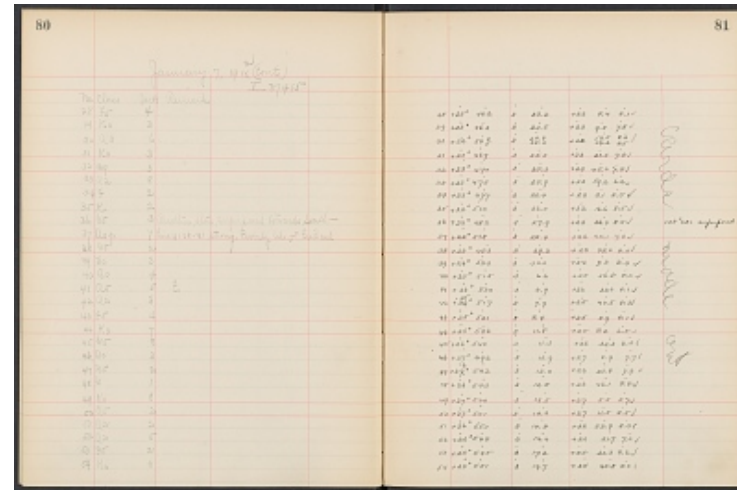
81

Cards made out

[[5 column table]]

28	+23° 462	3 23.2	+23 8.4	8.1	[[checkmark]]
29	+23° 463	3 23.5	+23 9.3	7.8	[[checkmark]]
30	+22° 504 and 505	3 24.9 and 25.0	+22 52.5 and 54.2	8.2 and 8.5	[[checkmark]]
31	+23° 469	3 25.3	+23 20.5	7.8	[[checkmark]]
32	+23° 470	3 25.3	+23 45.0	7.8	[[checkmark]]
33	+23° 473	3 25.9	+23 59.2	6.2	[[checkmark]]
34	+23° 477	3 26.4	+23 2.1	8.5	[[checkmark]]
35	+22° 510	3 26.0	+22 16.6	8.5	[[checkmark]]
36	+23° 482	3 27.9	+23 26.4	8.5	[[checkmark]]

+23° 481 superposed.



37	+22° 518	3 28.4	+22 45.1	7.0	[[checkmark]]
38	+23° 483	3 29.2	+23 48.0	8.0	[[checkmark]]
39	+24° 523	3 30.0	+24 7.3	8.3	[[checkmark]]
40	+25° 515	3 6.6	+25 56.8	8.0	[[checkmark]]
41	+26° 530	3 6.9	+26 22.0	8.1	[[checkmark]]
42	+25° <del>36</del>	<del>517</del>	3 7.9	+25 40.5	8.3
	8.3	[[checkmark]]			
43	+25° 521	3 8.4	+25 2.9	8.1	[[checkmark]]
44	+25° 536	3 11.8	+25 8.2	6.5	[[checkmark]]
45	+26° 540	3 11.3	+26 32.3	6.0	[[checkmark]]
46	+27° 492	3 10.9	+27 0.9	7.7	[[checkmark]]
47	+26° <del>27</del>	<del>542</del>	3 12.0	+26 23.8	7.9
	7.9	[[checkmark]]			
48	+26° 543	3 12.8	+26 46.1	8.8	[[checkmark]]
49	+27° 500	3 13.5	+27 5.5	5.7	[[checkmark]]
50	+27° 501	3 14.3	+27 11.5	8.5	[[checkmark]]
51	+26° 550	3 14.8	+26 52.9	8.3	[[checkmark]]
52	+26° 548	3 14.4	+26 21.7	7.0	[[checkmark]]
53	+25° 545	3 17.2	+25 20.3	8.6	[[checkmark]]
54	+25° 551	3 19.7	+25 45.8	8.0	[[checkmark]]

Project PHaEDRA- Annie Jump Cannon 36  
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January 7, 191 ~~1~~ 2 (cont)

137415

[4 column table]

No.|Class|Int.|Remark

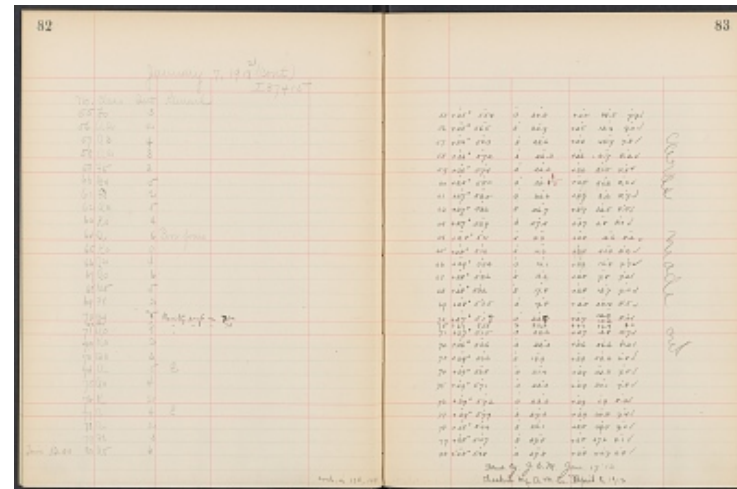
55	F0 3		
56	A2 2		
57	A3 4		
58	A2 3		
59	F5 3		
60	G0 5		
61	F8 2		
62	A3 5		
63	K0 4		
64	A 6	Poor focus	
65	K0 9		
66	A2 4		
67	A0 6		
68	G5 5		
69	F8 2		
70	B9	<del>5</del> 4 Partly sup. on 70a	
70a	A0 3	Partly sup. on 70	
71	A0 8		
72	K0 2		
73	B3 6		
74	A 5 E		
75	A0 4		
76	K 2		
77	A 4 E		
78	A 4		
79	F8 3		
Time 12.00			
80	A5 6		
cont. in 130, 108			

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[[right margin]]  
Cards Made Out  
[/right margin]]

[5 column table]

55	+25°	554 3	20.3 +25	48.5 7.9
56	+25°	565 3	22.9 +25	13.4 9.0
57	+24°	503 3	22.6 +24	45.9 7.8
58	+26°	572 3	26.3 +26	6.7 8.2
59	+26°	574 3	26.0 +26	21.5 8.3
60	+25°	580 3	28. <del>5</del>	<del>5</del>



~~5~~+25 31.2|8.0  
 61|+27° 525|3 26.6|+27 3.6|8.7  
 62|+27° 526|3 26.7|+27 22.5|8.5  
 63|+27° 529|3 27.3|+27 6.8|8.0  
 64|+28° 511|3 8.4|+28 13.6|8.2  
 65|+28° 516|3 11.6|+28 31.4|5.2  
 66|+29° 552|3 14.1|+29 16.8|7.7  
 67|+28° 526|3 16.1|+28 7.8|7.2  
 68|+28° 532|3 17.8|+28 12.7|7.0  
 69|+28° 535|3 19.8|+28 33.4|8.5  
 70|+27° 51 ~~3~~ ~~4~~ 3 22. ~~2~~  
~~3~~+27 ~~12.9~~ ~~13.2~~ 8.0  
 70a|+27 513|3 22.2|+27 12.9|8.0  
 71|+27° 515|3 22.6|+27 3.8|5.7  
 72|+26° 566|3 22.3|+26 36.6|8.2  
 73|+29° 566|3 19.9|+29 52.2|6.8  
 74|+29° 568|3 21.4|+29 32.2|7.5  
 75|+29° 571|3 23.3|+29 30.1|7.8  
 76|+29° 572|3 23.3|+29 1.9|8.3  
 77|+29° 579|3 27.3|+29 30.8|7.4  
 78|+28° 544|3 26.1|+28 49.5|9.0  
 79|+28° 547|3 27.5|+28 27.6|8.1  
 80|+28° 548|3 27.8|+28 44.7|6.8

Ident. by. J.C.M. Jan. 17 '12  
 Checked by A.M.G. April 8, 1912

Project PHaEDRA- Annie Jump Cannon 36  
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January 16, 1912

Time 10:48 B 12034 Short dispersion

[[4 column table]]

No. | Class | Int. | Remark

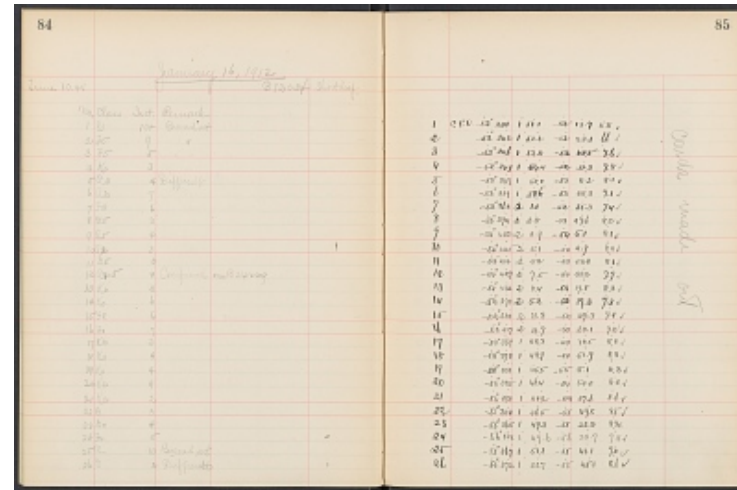
1	G	10+	Burned out
2	F5	9	Burned out
3	F5	5	
4	K0	3	
5	A3	4	Difficult
6	A2	7	
7	F2	6	
8	G5	3	
9	A5	4	
10	A2	3	
11	G5	3	
12	A	<del>2</del>	<del>5</del>   8   Confirmed on B 24229
13	K0	3	
14	K0	6	
15	F8	6	
16	F0	7	
17	K2	3	
18	K0	4	
19	K0	4	
20	K2	4	
21	K2	2	
22	G	3	
23	G0	4	
24	F0	5	
25	A	10	Burned out
26	G	2	Difficult

85

Cards Made Out

[[5 column table]]

1	C.P.D.	-52° 241	1 31.1	-52 13.7	5.8
2	-52° 242	1 52.2	-52 23.1	6.6	
3	-52° 246	1 52.8	-52 48.5	7.6	
4	-52° 249	1 54.4	-52 51.3	7.8	
5	-53° 387	1 58.0	-53 8.2	8.1	
6	-53° 389	1 58.	<del>4</del>	<del>5</del>	-53 38.3   7.1
7	-52° 263	2 1.0	-52 35.3	7.4	
8	-53° 394	2 2.8	-53 47.6	8.2	
9	-54° 422	2 3.9	-54 5.1	8.1	
10	-54° 425	2 5.1	-54 2.9	8.3	
11	-53° 400	2 5.2	-53 52.1	8.1	





12	-54° 429	2 7.5	-54 38.2	7.7
13	-54° 432	2 8.4	-54 19.8	8.3
14	-52° 273	2 5.2	-52 19.3	7.3
15	-52° 283	2 11.3	-52 47.3	7.1
16	-53° 417	2 11.7	-53 28.1	7.2
17	-53° 369	1 48.3	-53 18.5	8.0
18	-53° 370	1 48.9	-53 51.9	8.3
19	-55° 351	1 45.5	-55 5.1	8.3
20	-54° 385	1 46.4	-54 54.0	8.0
21	-54° 393	1 48.2	-54 37.6	8.6
22	-55° 354	1 46.5	-55 49.8	8.5
23	-55° 365	1 49.3	-55 22.2	8.3
24	-56° 348	1 47.6	-56 22.7	7.8
25	-55° 367	1 51.3	-55 41.1	7.0
26	-55° 372	1 52.7	-55 45.1	8.6

Project PHaEDRA- Annie Jump Cannon 36  
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January 16, 1912

B 12034 Short disp.

[[4 column table]]

No. | Class | Int. | Remark

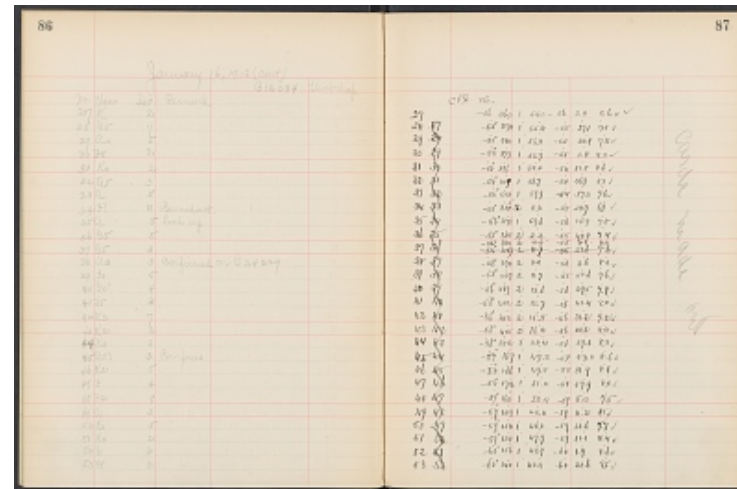
27	K	2	
28	G5	7	
29	A	5	
30	F8	2	
31	K0	2	
32	A5	3	
33	A	5	
34	F?	10	Burned out
35	A	5	Look up
36	G5	5	
37	G5	3	
38	A3	3	Confirmed on B 24229
39	F0	5	
40	G0	4	
41	F5	3	
42	K2	7	
43	K2	2	
44	K0	3	
45	A5?	3	Poor focus
46	K2	5	
47	F	4	
48	F2	8	
49	A	3	
50	K0	5	
51	K0	2	
52	G	3	
53	F8	3	

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Cards Made Out

[[5 column table]]

	C.P.D. No.				
27	-56° 360	1	54.0	-56 2.4	8.6
28	-55° 378	1	55.8	-55 37.1	7.1
29	-55° 380	1	56.8	-55 44.9	7.8
30	-55° 377	1	55.7	-55 1.8	8.3
31	-54° 396	1	52.0	-54 51.8	8.6
32	-54° 409	1	56.7	-54 36.9	8.3
33	-54° 413	1	59.9	-54 57.3	7.6
34	-55° 38	1	59.9	-54 57.3	7.6
35	-56° 371	1	59.6	-56 15.7	7.8



36		-55° 388		2 2.2		-55 40.8		7.4
37		<del>381</del>		2 11.7		-55 51.6		7.6 <del>7.6</del>
56°		381		2 4.0		-56 7.7		8.0
38		-56° 390		2 8.0		-56 3.6		8.1
39		-55° 407		2 11.7		-55 51.6		7.6
40		-56° 409		2 13.6		-56 49.5		7.9
41		-56° 412		2 15.7		-56 41.4		8.0
42		-56° 413		2 15.8		-56 31.2		7.2
43		-56° 415		2 16.2		-56 40.2		8.0
44		-56° 352		1 48.4		-56 59.3		8.3
45		-57° 367		1 47.3		-57 59.0		8.6
46		-58° 166		1 49.8		-58 31.9		8.1
47		-58° 172		1 51.0		-58 57.9		8.0
48		-59° 168		1 52.4		-59 5.0		7.5
49		-59° 149		1 45.4		-59 11.2		8.5
50		-59° 150		1 46.0		-59 33.6		7.7
51		-59° 154		1 47.7		-59 31.1		8.4
52		-60° 156		1 48.9		-60 1.9		8.6
53		-60° 140		1 40.8		-60 20.6		8.5

Project PHaEDRA- Annie Jump Cannon 36  
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 Extracted Aug-30-2022 03:40:57

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January 16, 1912 (cont.)  
B 12034 Short disp.

[[4 column table]]

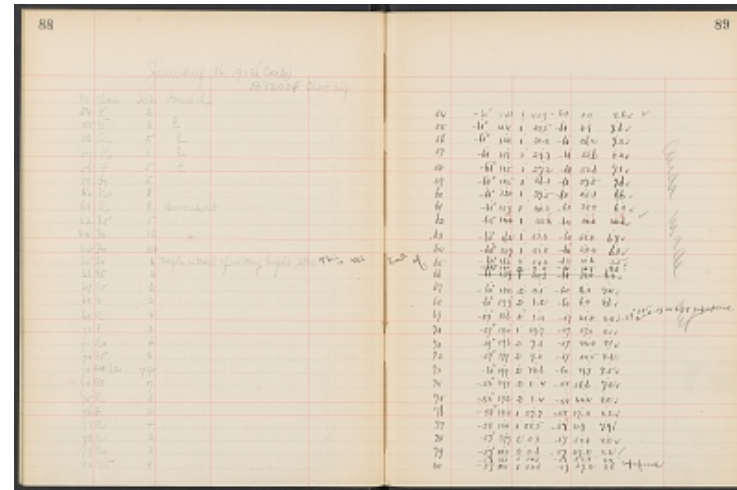
54	K	2		
55	G	6		E
56	A	5		E
57	K	1		E
58	F	5		E
59	F0	5		
60	K0	8		
61	A	8		Burned out
62	F5	5		
63	F0	10		
64	F0	10+		
65	F0	6		Maybe a trail of a very bright star. This is the trail of 65
66	F5	6		
67	F5	6		
68	G	2		
69	A	4		
70	F	3		
71	K0	4		
72	F5	3		
73	[[/strikethrough]] B8 [[/strikethrough]] A2   7			
74	B8	7		
75	A	3		
76	F	2		
77	A	4		
78	A	3		
79	K0	3		
80	G5	4		

89

Cards Made Out

[[5 column table]]

54	-61° 141	1 40.9	-61 1.0	8.6			
55	-61° 124	1 33.5	-61 8.9	7.6			
56	-61° 120	1 31.3	-61 36.2	7.3			
57	-61° 117	1 29.7	-61 52.6	8.4			
58	-61° 115	1 27.2	-61 53.6	7.1			
59	-61° 130	1 37.5	-61 37.8	7.6			
60	-61° 130	1 37.5	-61 25.1	6.6			
61	-61° 139	1 40.3	-61 38.8	6.8			
62	-62° 1	[[/strikethrough]] 46 [[/strikethrough]] 39   1 42.					
	[[/strikethrough]] 8 [[/strikethrough]] 5   -62 [[/strikethrough]] 31.0   10.6						
	[[/strikethrough]] 0.9   7.8						
63	-60° 162	1 51.3	-60 55.4	6.7			
64	-6	[[/strikethrough]] 0 [[/strikethrough]] 1° 157   1 51.8   -6					
	[[/strikethrough]] 0 [[/strikethrough]] 1 28.4   6.1						



65 | -62° 162 | 1 54.8 | -62 10.6 | 3.5  
 66 | ~~-61° 139~~ | 1 40.3 | -61 38.5 | 6.3 ~~-~~  
 61° 181 | 2 3.4 | -61 34.9 | 7.6  
 67 | -60° 182 | 2 3.5 | -60 16.3 | 7.4  
 68 | -60° 179 | 2 1.2 | -60 6.3 | 8.6  
 69 | -59° 186 | 2 1.4 | -59 45.8 | 8.0 -59° 285 2 1.4 -59 45.6 9.7  
 superposed  
 70 | -59° 180 | 1 59.7 | -59 59.3 | 8.1  
 71 | -59° 196 | 2 7.3 | -59 44.4 | 8.1  
 72 | -59° 199 | 2 9.0 | -59 52.5 | 8.2  
 73 | -60° 197 | 2 18.6 | -60 19.7 | 7.5  
 74 | -58° 191 | 2 0.4 | -58 56.6 | 7.2  
 75 | -58° 192 | 2 1.4 | -58 44.4 | 8.2  
 76 | -58° 182 | 1 57.7 | -58 17.4 | 8.2  
 77 | -58° 184 | 1 58.5 | -5 ~~-~~ 7 ~~-~~ 8 11.9 | 7.9  
 78 | -57° 397 | 2 0.8 | -57 58.4 | 8.2  
 79 | -57° 40.3 | 2 3.6 | -57 47.2 | 8.2  
 80 | -57° 385 | 1 54.6 | -57 29.2 | 8.6  
 -57° 383 | 1 54.5 | -57 28.8 | 8.4 superposed

Project PHaEDRA- Annie Jump Cannon 36  
 Transcribed and Reviewed by Digital Volunteers  
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90

January 16, 1912 (cont.)

B 12034 short disp.

[[4 column table]]

Time 11.10

No. | Class | Int. | Remark

81 | G5 | 2 | |

~~82~~ ~~[[/strikethrough]]~~

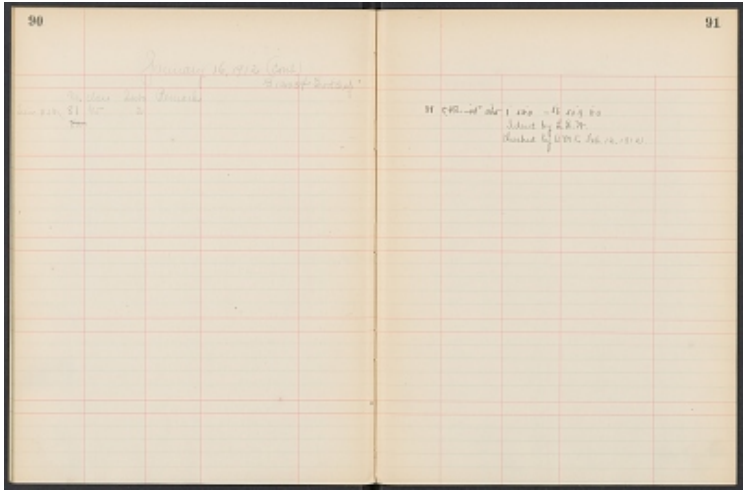
91

[[5 column table]]

81 | C.P.D. -56° 365 | 1 58.0 | -56 50.9 | 8.3

Ident. by L.D.W.

Checked by A.M.C. Feb. 12, 1912



Project PHaEDRA- Annie Jump Cannon 36  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:40:57

92

January 16, 1912  
Time 11.12 B 24229 Short disp.

[[4 column table]]  
No. | Class | Int. | Remark

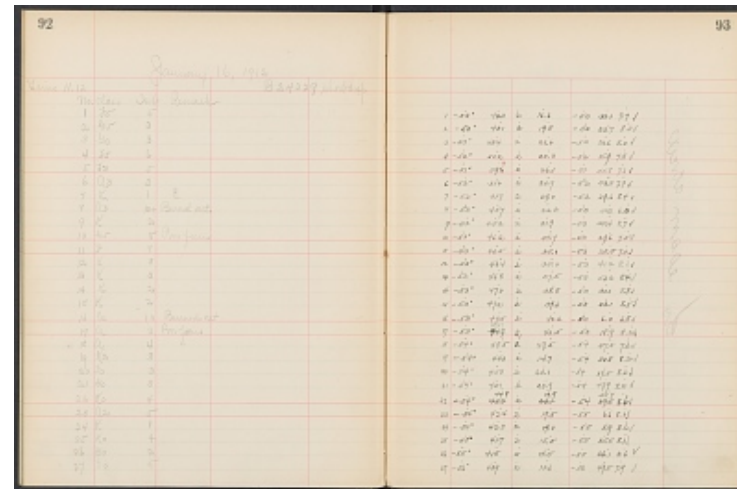
1	F5	5	
2	G5	3	
3	G0	3	
4	F5	6	
5	F2	5	
6	A3	3	
7	K	1	E
8	A3	10+	Burned out
9	K	2	
10	G5	5	Poor focus
11	F	8	
12	K	3	
13	K	3	
14	K	2	
15	K	2	
16	A	10	Burned out
17	A	3	Poor focus
18	A	4	
19	K2	3	
20	F0	3	
21	G0	3	
22	K0	4	
23	A2	5	
24	K	1	
25	K0	4	
26	G0	2	
27	G0	5	

93

Cards Made Out

[[5 column table]]

1	-53° 423	2 16.6	-53 32.1	7.7
2	-53° 431	2 19.8	-53 22.7	8.0
3	-53° 434	2 21.6	-53 31.6	8.0
4	-52° 302	2 22.3	-52 15.9	7.8
5	-51° 59	<del>6</del>	<del>2 26.1</del>	<del>-51 55.8</del>   7.6
6	-52° 310	2 26.7	-52 33.3	7.9
7	-52° 317	2 29.0	-52 29.6	8.4
8	-53° 457	2 33.3	-53 5.3	6.3
9	-53° 452	2 31.9	-53 35.4	8.7
10	-53° 462	2 34.7	-53 29.6	7.5
11	-53° 465	2 35.1	-53 28.5	7.0
12	-53° 464	2 35.0	-53 41.2	8.6
13	-53° 468	2 37.5	-53 51.2	8.4
14	-53° 470	2 38.8	-53 30.1	8.8
15	-53° 472	2 39.6	-53 23.1	8.5
16	-53° 475	2 40.2	-53 6.0	6.8



17 | -53° ~~447~~ 477 | 2 40.5 | -53 18.9 |  
 8.2  
 18 | -54° 485 | 2 47.5 | -54 57.5 | 7.6  
 19 | -54° 440 | 2 14.7 | -54 30.8 | 8.2  
 20 | -54° 450 | 2 20.1 | -54 37.5 | 8.2  
 21 | -54° 451 | 2 20.9 | -54 47.9 | 8.2  
 22 | -54° ~~450~~ 449 | 2 ~~449~~  
 20.1 ~~19.9~~ | -54 ~~37.5~~ | 8.2  
~~55.7~~ | 8.0  
 23 | -55° 424 | 2 19.5 | -55 6.6 | 8.0  
 24 | -55° 423 | 2 19.0 | -55 5.9 | 8.6  
 25 | -55° 417 | 2 15.5 | -55 35.5 | 8.1  
 26 | -55° 415 | 2 14.5 | -55 26.1 | 8.6  
 27 | -56° 409 | 2 13.6 | -56 49.5 | 7.9

Project PHaEDRA- Annie Jump Cannon 36  
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January 16, 1912 (cont.)  
B 24229 Short disp.

[[4 column table]]

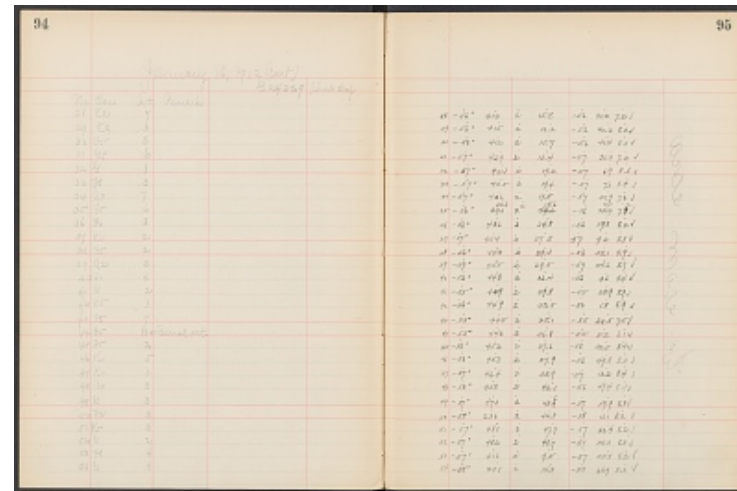
No.	Class	Int.	Remark
28	K2	7	
29	K2	3	
30	F5	3	
31	G5	6	
32	G	1	
33	F8	3	
34	A0	7	
35	F5	6	
36	F0	3	
37	K0	2	
38	F5	2	
39	A2	3	
40	F0	4	
41	G	2	
42	G5	1	
43	F5	7	
44	F5	10+	Burned out
45	F5	2	
46	K0	5	
47	K0	3	
48	A0	3	
49	G	3	
50	F2	3	
51	K5	3	
52	G	2	
53	F8	4	
54	G	3	

95

Cards Made Out

[[5 column table]]

28	-56° 413	2 15.8	-56 31.2	7.2
29	-56° 415	2 16.2	-56 40.2	8.0
30	-56° 412	2 15.7	-56 41.4	8.0
31	-57° 427	2 16.4	-57 21.3	7.2
32	-57° 434	2 19.2	-57 6.9	8.6
33	-57° 435	2 19.4	-57 7.1	8.4
34	-57° 436	2 19.5	-57 22.9	7.6
35	-56° <del>[[strikethrough]]</del> 371	1 59.6	-56 15.7	7.8 <del>[[/strikethrough]]</del>
426	2 19.6	-56 11.1	7.2	
36	-56° 436	2 24.8	-56 59.8	8.2
37	-57° 454	2 27.8	-57 9.2	8.8
38	-56° 443	2 29.4	-56 52.1	8.9
39	-57° 455	2 29.5	-57 34.6	8.7
40	-56° 448	2 32.4	-56 3.6	8.4
41	-55° 439	2 29.8	-55 28.9	8.9
42	-56° 449	2 33.5	-56 1.8	8.9



43	-55° 445	2 35.1	-55 22.5	7.5
44	-55° 446	2 36.8	-55 5.2	6.1
45	-56° 452	2 37.6	-56 30.5	8.4
46	-56° 453	2 37.9	-56 49.8	8.0
47	-57° 464	2 38.9	-57 10.2	8.4
48	-56° 458	2 42.1	-56 47.4	8.4
49	-57° 473	2 43. <del>4</del>	<del>4</del> <del>6</del>	-57 57.9   8.3
50	-58° 236	2 44.8	-58 11.1	8.2
51	-57° 481	2 47.7	-57 42.4	8.2
52	-57° 482	2 48.7	-57 30.3	8.3
53	-57° 416	2 9.5	-57 55.8	8.2
54	-58° 201	2 14.3	-58 23.9	8.3

Project PHaEDRA- Annie Jump Cannon 36  
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January 16, 1912 )cont.)

B 24229 Short disp.

[[4 column table]]

No. | Class | Int. | Remark

55	G5	4	
56	K	2	
57	A2	2	
58	F5	1	Difficult
59	F8	6	
60	A5	2	
61	F2	3	
62	Mb	6	
63	F8	5	
64	F8	3	
65	K0	2	
66	Mb	3	
67	F8	5	
Time 11.25			
68	A5	7	
<del>69</del> <del>[[/strikethrough]]</del>			
<del>70</del> <del>[[/strikethrough]]</del>			

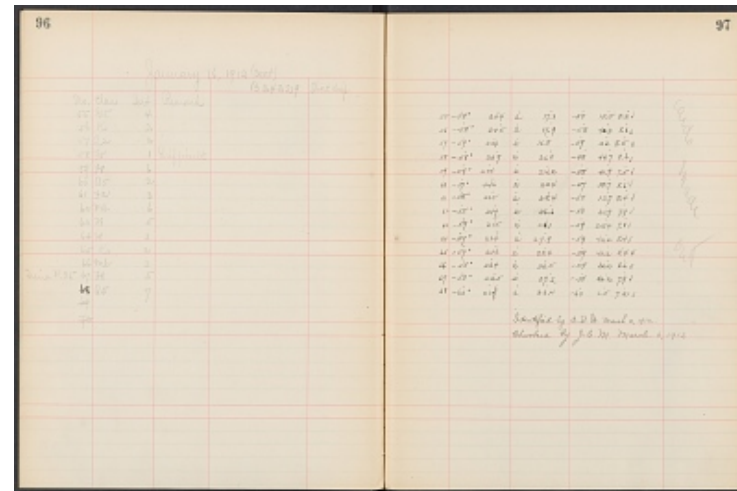
97

Cards Made Out

[[5 column table]]

55	-58° 204	2 17.3	-58 15.5	8.3
56	-58° 205	2 17.9	-58 40.3	8.6
57	-59° 204	2 16.8	-59 3.2	8.5
58	-58° 209	2 21.8	-58 44.7	8.6
59	-58° 214	2 24.2	-58 41.9	7.5
60	-57° 446	2 23.4	-57 58.7	8.6
61	-58° 215	2 24.4	-58 12.7	8.4
62	-58° 217	2 26.6	-58 21.9	7.9
63	-59° 215	2 28.1	-59 25.4	7.8
64	-59° 214	2 27.9	-59 42.2	8.4
65	-59° 216	2 28.4	-59 40.2	8.4
66	-58° 224	2 36.5	-58 12.2	8.6
67	-58° 225	2 37.2	-58 40.2	7.9
68	-60° 20	<del>[[/strikethrough]]</del> 7 <del>[[/strikethrough]]</del> 6	2 36.4	-60 6.5   7.2

Identified by A.D.W. March 2, 1912.  
Checked by J.C.M. March 6, 1912



Project PHaEDRA- Annie Jump Cannon 36  
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98

January 16, 1912

June 1135

B 20260 Short disp.

[[4 Column table]]

No. | Class | Int. | Remark

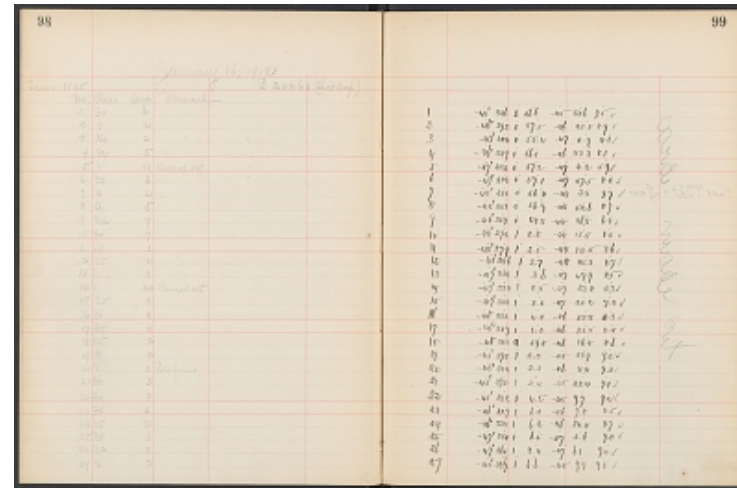
1	F0	6	
2	Y	2	
3	Ko	2	
4	F2	5	
5	G	10	Burned out
6	G0	6	
7	G	2	
8	A	5	
9	Ma	7	
10	F0	7	
11	F8	3	
12	G5	2	
13	K	3	
14	K	10+	Burned out
15	A5	9	
16	G0	3	
17	G5	3	
18	G5	2	
19	G	2	
20	G	3	Poor Focus
21	G0	3	
22	F0	3	
23	F0	4	
24	G5	2	
25	F5	3	
26	A2	3	
27	G	2	

99

Cards Made out

[[ 5 column Table]]

1	-45° 336	0 56.6	-45 50.6	7.5	
2	-46° 292	0 57.5	-46 33.5	8.9	
3	-47° 304	0 55.4	-47 0.9	8.1	
4	-46° 289	0 56.1	-46 53.3	8.1	
5	-47° 313	0 57.2	-47 4.2	5.9	
6	-47° 312	0 57.1	-47 57.5	8.0	
7	-48° 250	0 56.4	-48 3.8	9.7	very br. for a 9.7 magn. star. Var?
8	-48° 251	0 56.9	-48 52.6	8.9	
9	-48° 259	0 58.8	-48 36.8	6.8	
10	-48° 272	1 0.8	-48 15.8	8.0	



11	-48° 279	1 2.5	-48 13.5	8.6
12	-48° 286	1 3.7	-48 35.5	8.7
13	-47° 334	1 3.6	-47 47.9	8.5
14	-47° 324	1 0.5	-47 23.4	3.3
15	-47° 333	1 3.0	-47 20.2	7.3
16	-46° 322	1 4.0	-46 55.8	8.3
17	-46° 307	1 1.0	-46 35.5	8.4
18	-46° 303	0 59.8	-46 16.8	8.6
19	-45° 370	1 2.3	-45 58.9	9.2
20	-46° 314	1 2.3	-46 8.8	9.3
21	-45° 372	1 2.4	-45 28.4	9.1
22	-45° 382	1 4.5	-45 9.7	9.2
23	-46° 327	1 6.0	-46 7.8	8.5
24	-46° 328	1 6.2	-46 34.4	8.7
25	-47° 350	1 6.5	-47 5.6	9.0
26	-47° 360	1 8.4	-47 6.1	9.0
27	-45° 398	1 6.6	-45 9.7	9.1

Project PHaEDRA- Annie Jump Cannon 36  
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100

January 16, 1912 (cont.)

B20260 short disp.

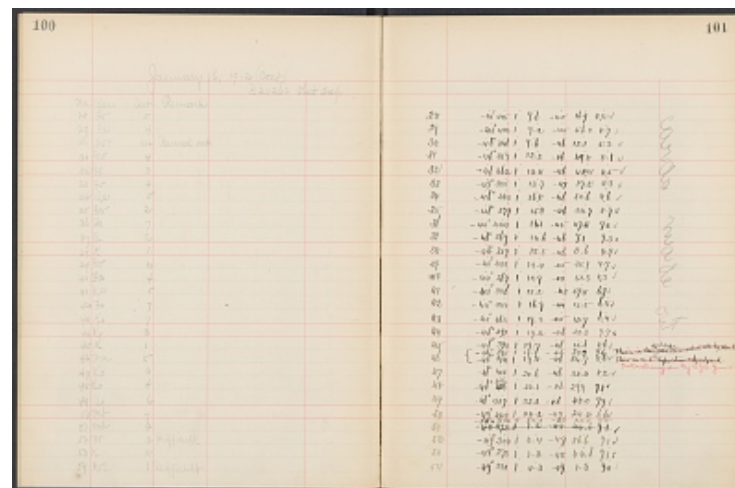
[[4 column table]]

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

101

[[5 column table]]

28	-45° 415	1 9.6	-45	16.9	8.2
29	-45° 412	1 9.2	-45	56.0	8.7
30	-46° 346	1 9.6	-46	12.1	5.3
31	-46° 357	1 12.3	-46	49.8	8.1
32	-46° 362	1 13.4	-46	48.4	8.5
33	-47° 385	1 13.7	-47	17.2	8.3
34	-46° 383	1 16.8	-46	52.6	8.6
35	-46° 379	1 15.9	-46	24.7	8.9
36	-45° 444	1 16.1	-45	47.8	7.0
37	-46° 369	1 14.6	-46	7.1	9.3
38	-46° 359	1 12.5	-46	0.6	8.9
39	-45° 433	1 13.4	-45	35.9	8.7
40	-44° 367	1 12.9	-44	51.3	8.3
41	-43° 386	1 13.2	-43	59.4	6.9
42	-44° 388	1 16.9	-44	15.5	6.8
43	-45° 463	1 19.3	-45	10.7	6.4
44	-46° 391	1 19.2	-46	22.3	7.7



45 | -46° 393 | 1 19.7 -46 | 15.6 | 8.6 |  
 46 | -46° 395 | 1 19.9 -46 | 35.7 | 9.6 |  
 -46° 394 | 1 19.8 -46 | 34.7 | 8.6 | ^[[Interchanged by A.J.C. June 22 '16  
~~This is the ^[[3rd type]] Ma star called Mb by Mrs. F.~~  
 This is a 1st type star superposed.]]]]  
 47 | -46° 400 | 1 20.6 -46 | 32.4 | 8.2 |  
 48 | -46° 406 | 1 22.1 -46 | 29.9 | 7.1 |  
 49 | -46° 407 | 1 22.2 -46 | 48.0 | 7.9 |  
 50 | -47° 440 | 1 24.2 -47 | 24.2 | 6.6 |  
 51 | -50° 270 ~~]] -48 [[symbol-degree]] 273 ~~[[\strikethrough]]~~~~  
 | 0 54.3 -50 ~~[[\strikethrough]]~~ 1 1.2 -48 ~~[[\strikethrough]]~~ | 25.5 7.5  
~~[[\strikethrough]] 44.6 | 9.1 ~~[[\strikethrough]]~~ |~~  
 52 | -49° 304 | 1 0.4 -49 | 36.6 | 9.1 |  
 53 | -48° 273 | 1 1.2 -48 | 44.6 | 9.1 |  
 54 | -49° 330 | 1 4.3 -49 | 1.3 | 9.0 |

[[right margin]]  
 cards made out  
 [[\right margin]]

Project PHaEDRA- Annie Jump Cannon 36  
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102

January 16, 1912 (cont.)

B20260 short disp.

[[4 column table]]

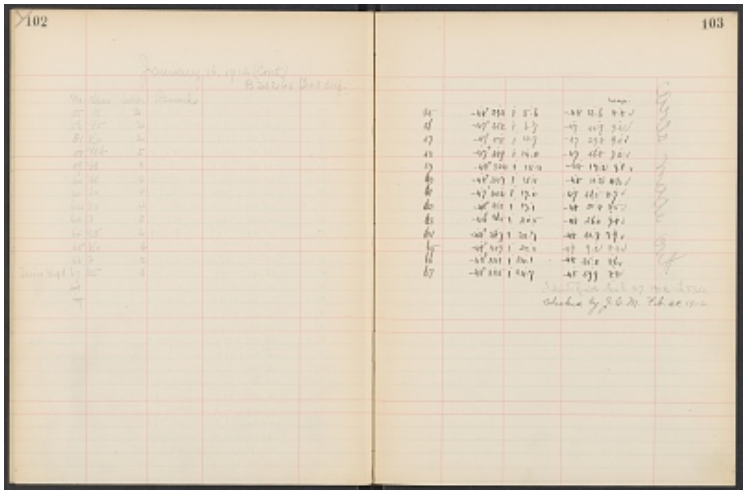
No.	Class	Int.	Remark
55	G	2	
56	F5	2	
57	K0	2	
58	Mb	5	
59	F8	3	
60	F8	4	
61	F0	4	
62	G0	4	
63	F	3	
64	G5	6	
65	K0	4	
66	F	3	
Tune 11.48 67   G5   3			
[[striketrough]] 68 [[striketrough]]			
[[striketrough]] 69 [[striketrough]]			

103

[[5 column table]]

			Magn.	
55	-48° 293	1 5.6	-48 13.6	8.8
56	-47° 352	1 6.7	-47 45.9	9.2
57	-47° 371	1 10.7	-47 29.8	9.0
58	-47° 389	1 14.2	-47 56.8	7.2
59	-48° 342	1 15.11	-48 17.2	9.0
60	-48° 347	1 15.8	-48 11.2	8.3
61	-47° 402	1 17.0	-47 56.5	8.7
62	-48° 353	1 17.1	-48 21.4	8.5
63	-48° 365	1 20.5	-48 26.0	9.4
64	-48° 367	1 20.7	-48 32.7	7.9
65	-49° 407	1 22.4	-49 9.2	8.3
66	-48° 381	1 24.1	-48 35.0	8.6
67	-48° 385	1 24.7	-48 59.9	8.8
Identified Feb. 27 1912 L.O.W.				
Checked by J.C.M. Feb. 28, 1912				

[[right margin]] cards made out [[right margin]]



104

January 17, 1912

June 2.35 B12636

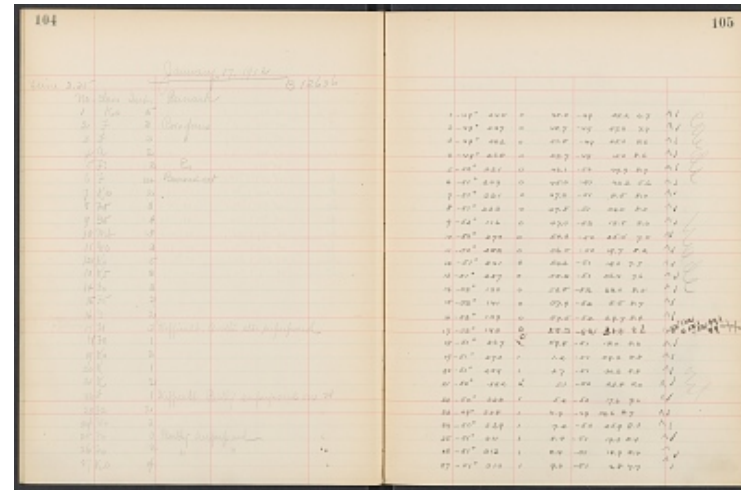
[[4 column table]]

No.	Class	Int.	Remark
1	K0	5	
2	F	3	Poor focus
3	F	3	Poor focus
4	A	2	
5	F?	2	E
6	F	10+	Burned out
7	K2	2	
8	F5	3	
9	G5	4	
10	Mb	3	
11	G0	3	
12	K0	5	
13	K5	3	
14	F0	3	
15	F5	2	
16	G	2	
17	F8	3	Difficult.
18	F8	1	
19	K0	2	
20	K	1	
21	K	2	
22	F	1	Difficult partly superposed
23	F2	2	
24	G0	3	
25	F0	3	Partly superposed
26	F0	2	Partly superposed
27	K0	4	

105

[[five column table]]

1	-49° 245	0	48.3	-49	28.2	6.7	^	[[check]]
2	-49° 247	0	48.7	-49	37.6	7.7	^	[[check]]
3	-49° 262	0	51.8	-49	25.0	8.6	^	[[check]]
4	-49° 268	0	52.7	-49	15.0	8.6	^	[[check]]
5	-50° 221	0	46.1	-50	49.9	8.7	^	[[check]]
6	-51° 209	0	45.0	-51	40.2	5.6	^	[[check]]
7	-51° 221	0	47.2	-51	8.5	8.0	^	[[check]]
8	-51° 223	0	47.8	-51	44.0	8.3	^	[[check]]
9	-52° 116	0	47.0	-52	13.8	8.0	^	[[check]]
10	-50° 270	0	54.3	-50	25.5	7.5	^	[[check]]
11	-50° 282	0	56.5	-50	19.7	8.2	^	[[check]]
12	-51° 241	0	54.6	-51	12.0	7.7	^	[[check]]
13	-51° 237	0	53.2	-51	56.4	7.6	^	[[check]]
14	-52° 130	0	52.5	-52	26.0	8.5	^	[[check]]
15	-52° 141	0	57.9	-52	5.5	8.7	^	[[check]]
16	-52° 139	0	57.5	-52	29.7	8.4	^	[[check]]
17	-52° 143	0	58.3	-52	38.8	8.6	-52° 142	0 58.1 -52 39.1 8.9



[[unclear]]  
 18 |-51° 267 |~~1~~ 0  
 59.8|-51 18.0 |8.6|^[[check]]  
 19 |-51° 273 |1 1.2|-51 39.4 |8.8|^[[check]]  
 20 |-51° 289 |1 3.7|-51 30.2 |8.8|^[[check]]  
 21 |-50° 322 |~~0~~ 1 5.1|-50 22.8  
 |8.0|^[[check]]  
 22 |-50° 323 |1 5.2|-50 17.6 |9.0|^[[check]]  
 23 |-49° 338 |1 6.9|-49 56.6 |8.7|^[[check]]  
 24 |-50° 329 |1 7.2|-50 25.9 |8.3|^[[check]]  
 25 |-51° 311 |1 8.4|-51 19.3 |8.4|^[[check]]  
 26 |-51° 312 |1 8.4|-51 18.9 |8.4|^[[check]]  
 27 |-51° 313 |1 9.0|-51 4.8 |7.7|^[[check]]

Project PHaEDRA- Annie Jump Cannon 36  
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 Extracted Aug-30-2022 03:40:57

106

January 17, 1912 (cont)  
B12636

[[four column table]]

No.|Class|Int|Remark

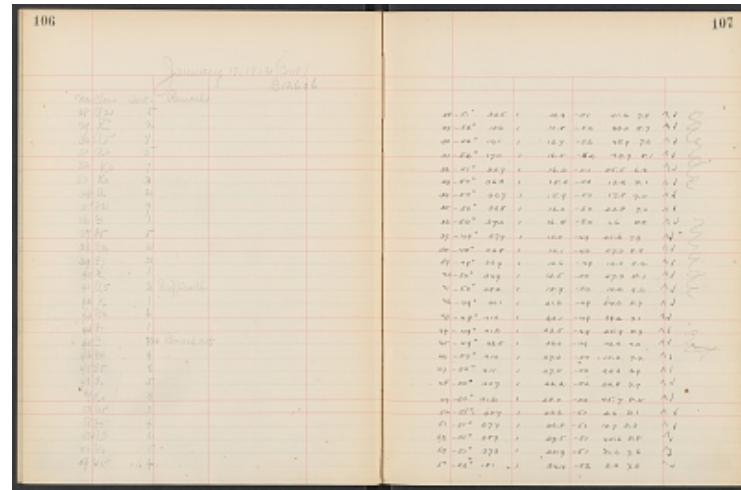
28	A2	5	
29	K	2	
30	A5	7	
31	A0	5	
32	K0	7	
33	K0	3	
34	A	2	
35	F2	7	
36	G	1	
37	F5	5	
38	A2	2	
39	F	2	
40	K	1	
41	A5	2	Difficult
42	K	1	
43	G0	6	
44	F1	1	
45	G	10+	Burned out
46	G0	4	
47	F5	8	
48	F0	5	
49	K0	3	
50	G5	3	
51	F0	4	
52	A3	2	
53	G0	5	
54	G5	4	

107

Cards Made Out

[[five column table]]

28	-51° 325	1	12.4	-51	41.6	7.8	^	[[check]]
29	-52° 156	1	10.8	-52	33.2	8.7	^	[[check]]
30	-52° 161	1	12.7	-52	45.9	7.6	^	[[check]]
31	-52° 170	1	16.5	-52	43.9	8.1	^	[[check]]
32	-51° 337	1	16.2	-51	35.5	6.4	^	[[check]]
33	-50° 363	1	15.3	-50	13.2	8.1	^	[[check]]
34	-50° 367	1	15.9	-50	17.8	9.0	^	[[check]]
35	-50° 368	1	16.0	-50	23.8	7.0	^	[[check]]
36	-50° 370	1	16.5	-50	1.6	8.8	^	[[check]]
37	-49° 377	1	15.0	-49	20.2	7.9	^	[[check]]
38	-48° 338	1	14.1	-48	57.0	8.8	^	[[check]]
39	-49° 369	1	12.6	-49	16.0	8.2	^	[[check]]
40	-50° 349	1	12.5	-50	27.4	8.1	^	[[check]]
41	-50° 382	1	18.9	-50	10.2	9.2	^	[[check]]



42	-49° 401	1	21.6	-49	54.6	8.7	^[[check]]
43	-49° 410	1	23.1	-49	39.2	7.1	^[[check]]
44	-49° 412	1	23.5	-49	25.9	8.9	^[[check]]
45	-49° 425	1	26.0	-49	43.4	4.0	^[[check]]
46	-50° 410	1	27.4	-50	10.3	7.9	^[[check]]
47	-50° 411	1	27.5	-50	22.3	6.9	^[[check]]
48	-50° 407	1	26.2	-50	32.8	7.7	^[[check]]
49	-50° 412	1	28.0	-50	45.7	8.5	^[[check]]
50	-51° 387	1	28.6	-51	2.6	8.1	^[[check]]
51	-51° 377	1	26.8	-51	12.7	8.3	^[[check]]
52	-51° 389	1	29.5	-51	45.6	8.8	^[[check]]
53	-51° 373	1	25.9	-51	51.6	7.6	^[[check]]
54	-52° 181	1	24.4	-52	8.3	7.8	^[[check]]

Project PHaEDRA- Annie Jump Cannon 36  
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108

January 17, 1912 (Cont)  
B 12636

[[4 column table]]

No.	Class	Int.	Remark
55	G1	1	
56	G5	5	
57	F8	4	
58	K2	4	
59	K2	5	
60	K1	1	
61	G5	6	
62	A7	1	
63	Ma	3	
64	A	10	Burned out
65	K1	4	E
66	Ma?	8	E

Time 2.45

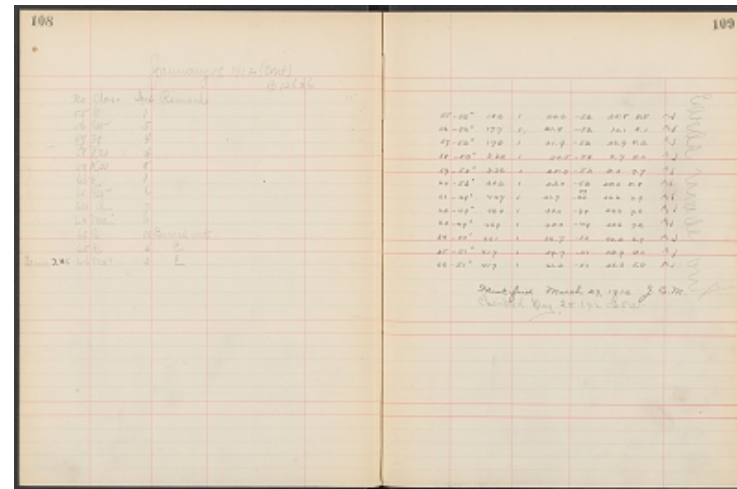
109

Cards Made Out

[[5 column table]]

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

Identified March 29, 1912 J.C.M.  
Checked May 28 1912 L.D.W



Project PHaEDRA- Annie Jump Cannon 36  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:40:57

110  
January 17, 1912  
B 41875

9.45  
[[4 column table]]

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

9.53

111

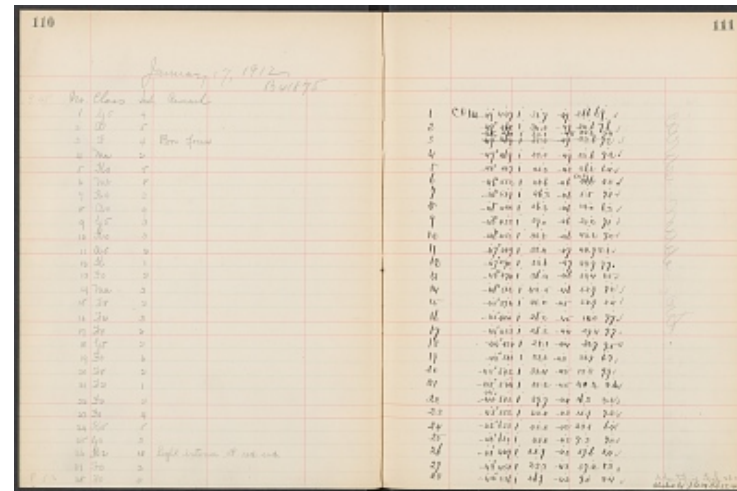
[[5 column table]]

1	C.D.W.	-49°	447	1	31.7	-49	26.6	6.9	[[check mark]]
2	-49°	464	1	34.0	-49	24.6	7.6	[[check mark]]	
3	[[strikethrough]]	-49°	469	[[strikethrough]]	^	[[strikethrough]]	-48	430	
4	[[strikethrough]]	1	35.0	-49	[[strikethrough]]	^	[[strikethrough]]	1	33.1 -48
5	[[strikethrough]]	23.6	7.2	[[strikethrough]]	^	[[strikethrough]]	34.0	7.4	[[check mark]]

4|-49° 469|1 35.0|-49 23.6|7.2 [[check mark]]

5|-48° 487|1 45.3|-48 26.2|6.4 [[check mark]]

6|-46° 552|1 48.6|-46 [[strikethrough]] 36.6 [[strikethrough]] ^[[54.8]]  
4.8 [[check mark]]



7|-46° 539|1 46.3 |-46 5.5 |7.1 [[check mark]]  
 8|-46° 420|1 26.3 |-46 13.0 |6.3 [[check mark]]  
 9|-46° 433|1 29.0 |-46 20.2 |7.1 [[check mark]]  
 10|-46° 453|1 32.8 |-46 43.2 |7.0 [[check mark]]  
 11|-47° 489|1 32.4 |-47 44.9 |8.1 [[check mark]]  
 12|-47° 490|1 32.6 |-47 48.9 |7.7 [[check mark]]  
 13|-46° 474|1 36.4 |-46 38.4 |8.5 [[check mark]]  
 14|-46° 512|1 42.5 |-46 52.9 |7.2 [[check mark]]  
 15|-45° 578|1 41.0 |-45 54.9 |8.4 [[check mark]]  
 16|-45° 500|1 26.2 |-45 18.0 |7.7 [[check mark]]  
 17|-44° 423|1 26.2 |-44 29.4 |7.7 [[check mark]]  
 18|-44° 434|1 28.1 |-44 32.7 |7.5 [[check mark]]  
 19|-43° 503|1 33.2 |-43 33.7 |6.7 [[check mark]]  
 20|-45° 542|1 33.4 |-45 13.8 |7.9 [[check mark]]  
 21|-45° 54~~[[strikethrough]]~~ 8 ~~[[/strikethrough]]~~ ^~~[[7]]~~ 1 35.2 |-45 40.2 |8.6  
 [[check mark]]  
 22|-~~[[strikethrough]]~~ 45 ~~[[/strikethrough]]~~ ^~~[[44°]]~~ 502|1 39.7 |-44 16.3  
 |8.2 [[check mark]]  
 23|-43° 552|1 42.0 |-43 15.9 |7.2 [[check mark]]  
 24|-42° 633|1 42.0 |-42 23.1 |6.4 [[check mark]]  
 25|-42° 638|1 43.0 |-42 7.3 |7.0 [[check mark]]  
 26|-43° 449|1 22.9 |-43 57.6 |3.4 [[check mark]]  
 27|-43° 451|1 23.3 -43| 57.2 |8.3 [[check mark]]  
 28|-42° 536|1 26.9 -42| 9.0 |8.4 [[check mark]]

Identified Feb. 26 1912  
 Checked by J.C.M. Feb. 27, 1912



Project PHaEDRA- Annie Jump Cannon 36  
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112  
January 17, 1912  
B12227 Short dispersion

Time ~~9~~ 45 ~~55~~

[4 column table]

No. | Class | Int. | Remark

1 | K0 | 7 | E  
2 | K2 | 4 | E  
3 | K2 | 10 | |  
4 | A5 | 2 | |  
5 | G | 1 | |  
6 | F5 | 3 | |  
7 | K0 | 3 | |  
8 | F | 5 | |  
9 | A | 10 | |  
10 | G5 | 5 | |  
11 | K | 2 | |  
12 | G5 | ~~1~~ ~~2~~ | |  
13 | F2 | 5 | |  
14 | A2 | 7 | |  
15 | A3 | 3 | |  
16 | F5 | 4 | |  
17 | F5 | 3 | |  
18 | K2 | 2 | |  
19 | F | 1 | |  
20 | A2 | 5 | |  
21 | K2 | 5 | E  
22 | K | 2 | |  
23 | K0 | 2 | |  
24 | K0 | 6 | |  
25 | G5 | 3 | |  
26 | F0 | 3 | |  
27 | F | 2 | Difficult  
28 | F | 2 | "

9 53

113  
Cards Made out

[5 column table]

1	-42°	493	1	19.1	-42	8.6	5.8
2	-42°	508	1	21.5	-42	23.7	6.8
3	-43°	449	1	22.9	-43	57.6	3.4
4	-43°	451	1	23.3	-43	57.2	8.3
5	-43°	456	1	24.0	-43	48.2	8.0
6	-44°	423	1	26.2	-44	29.4	7.7
7	-44°	434	1	28.1	-44	32.7	7.5
8	-45°	500	1	26.2	-45	18.0	7.7
9	-46°	420	1	26.3	-46	13.0	6.3
10	-46°	433	1	29.0	-46	20.2	7.1
11	-45°	512	1	27.4	-45	22.9	8.6
12	-45°	531	1	31.4	-45	26.7	8.9
13	-45°	542	1	33.4	-45	13.8	7.9

112

113

January 17, 1912

Tide gauge station

Time	Bar	Wind	Sea	Temp	Bar	Wind	Sea	Temp	Bar	Wind	Sea	Temp	Bar	Wind	Sea	Temp	Bar	Wind	Sea	Temp
1	30.1	4	1	19.1	-42	8.6	5.8	7.1												
2	30.1	4	1	21.5	-42	23.7	6.8	7.1												
3	30.1	4	1	22.9	-43	57.6	3.4	7.1												
4	30.1	4	1	23.3	-43	57.2	8.3	7.1												
5	30.1	4	1	24.0	-43	48.2	8.0	7.1												
6	30.1	4	1	26.2	-44	29.4	7.7	7.1												
7	30.1	4	1	28.1	-44	32.7	7.5	7.1												
8	30.1	4	1	26.2	-45	18.0	7.7	7.1												
9	30.1	4	1	26.3	-46	13.0	6.3	7.1												
10	30.1	4	1	29.0	-46	20.2	7.1	7.1												
11	30.1	4	1	27.4	-45	22.9	8.6	7.1												
12	30.1	4	1	31.4	-45	26.7	8.9	7.1												
13	30.1	4	1	33.4	-45	13.8	7.9	7.1												
14	30.1	4	1	34.4	-45	13.8	7.9	7.1												
15	30.1	4	1	34.4	-45	13.8	7.9	7.1												
16	30.1	4	1	34.4	-45	13.8	7.9	7.1												
17	30.1	4	1	34.4	-45	13.8	7.9	7.1												
18	30.1	4	1	34.4	-45	13.8	7.9	7.1												
19	30.1	4	1	34.4	-45	13.8	7.9	7.1												
20	30.1	4	1	34.4	-45	13.8	7.9	7.1												
21	30.1	4	1	34.4	-45	13.8	7.9	7.1												
22	30.1	4	1	34.4	-45	13.8	7.9	7.1												
23	30.1	4	1	34.4	-45	13.8	7.9	7.1												
24	30.1	4	1	34.4	-45	13.8	7.9	7.1												
25	30.1	4	1	34.4	-45	13.8	7.9	7.1												
26	30.1	4	1	34.4	-45	13.8	7.9	7.1												
27	30.1	4	1	34.4	-45	13.8	7.9	7.1												
28	30.1	4	1	34.4	-45	13.8	7.9	7.1												
29	30.1	4	1	34.4	-45	13.8	7.9	7.1												
30	30.1	4	1	34.4	-45	13.8	7.9	7.1												

14	-43°	503	1	33.2	-43	33.7	6.7
15	-44°	502	1	39.7	-44	16.3	8.2
16	-44°	522	1	42.5	-44	35.4	7.5
17	-44°	528	1	43.4	-44	43.5	8.1
18	-44°	532	1	44.1	-44	51.9	7.9
19	-44°	526	1	43.1	-44	57.3	8.7
20	-43°	552	1	42.0	-43	15.9	7.2
21	-42°	633	1	<del>41.5</del>	<del>42.0</del>	-42	
				<del>45.6</del>	<del>23.1</del>	<del>7.4</del>	
				<del>6.4</del>			
22	-42°	630	1	41.5	-42	45.6	7.4
23	-43°	566	1	45.2	-43	7.5	7.4
24	-46°	453	1	32.8	-46	43.2	7.0
25	-46°	460	1	33.7	-46	24.5	8.0
26	-46°	474	1	36.4	-46	38.4	8.5
27	-45°	547	1	35.2	-45	40.2	8.6
28	-45°	562	1	37.6	-15	30.8	8.6

Project PHaEDRA- Annie Jump Cannon 36  
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~~32~~~~33~~ -46° 490 | 1 39.2 | -46 14.4 | 9.0 |  
~~33~~~~34~~ -46° 539 | 1 46.3 | -46 5.5 | 7.1 |  
~~34~~~~35~~ -46° 542 | 1 46.8 | -46 23.3 | 9.0 |  
~~35~~~~36~~ -46° 552 | 1 48.6 | -46 54.8 | 4.8 |  
~~36~~~~37~~ -46° 562 | 1 49.3 | -46 35.0 | 8.1 |  
~~37~~~~38~~ -47° 567 | 1 47.0 | -47 15.7 | 8.0 |  
~~38~~~~39~~ -47° 552 | 1 44.5 | -47 23.6 | 7.9 |  
~~39~~~~40~~ -47° 551 | 1 44.2 | -47 6.7 | 8.  
~~7~~ <sup>4</sup>  
~~40~~~~41~~ -46° 512 | 1 42.5 | -46 52.9 | 7.2 |  
~~41~~~~42~~ -47° 597 | 1 52.2 | -47 59.7 |  
~~9.1~~ <sup>5.1</sup> |  
~~42~~~~43~~ -48° 498 | 1 47.7 | -48 17.8 | 9.2 |  
~~43~~~~44~~ -48° 497 | 1 47.3 | -48 7.6 | 8.2 |  
~~44~~~~45~~ -48° 487 | 1 45.3 | -48 26.2 | 6.4 |  
~~45~~~~46~~ -49° 469 | 1 35.0 | -49 23.6 | 7.2 |  
~~46~~~~47~~ -49° 464 | 1 34.0 | -49 24.6 | 7.6 |  
~~47~~ -48° 426 | 1 32.0 | -48 55.5 | 7.6 |  
~~48~~ -49° 447 | 1 31.7 | -49 26.6 | 6.9 |  
~~49~~ -48° 430 | 1 33.1 | -48 34.0 | 7.4 |  
~~50~~ -47° 490 | 1 32.6 | -47 48.9 | 7.7 |  
~~51~~ -47° 489 | 1 32.4 | -47 44.9 | 8.1 |  
~~52~~ -47° 463 | 1 28.1 | -47 57.1 | 8.2 |  
~~53~~ -49° 430 | 1 27.5 | -49 15.4 | 8.6 |  
~~54~~ -49° 555 | 1 54.8 | -49 13.2 | 7.9 |

55| -49° 539 | 1 52.1 | -49 51.5 | 8.2 |

Project PHaEDRA- Annie Jump Cannon 36  
Transcribed and Reviewed by Digital Volunteers  
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116

January 18, 1912 (Cont)  
B 12227

[[4 column table]]

No.|Class|Int.|Remark|

56|F8|3|  
57|A|8|Burned out|  
58|K2|3|  
59|A0|8|  
60|A|5|  
61|Ma|8|  
62|K0|3|  
63|K5|2|  
64|A0|3|  
65|A0|8|  
66|G0|3|  
67|G5|3|  
68|K2|1|  
69|K0|3|

~~70~~ | | |

[[left margin]]

Time 3:17

[[left margin]]

117

[[5 column table]]

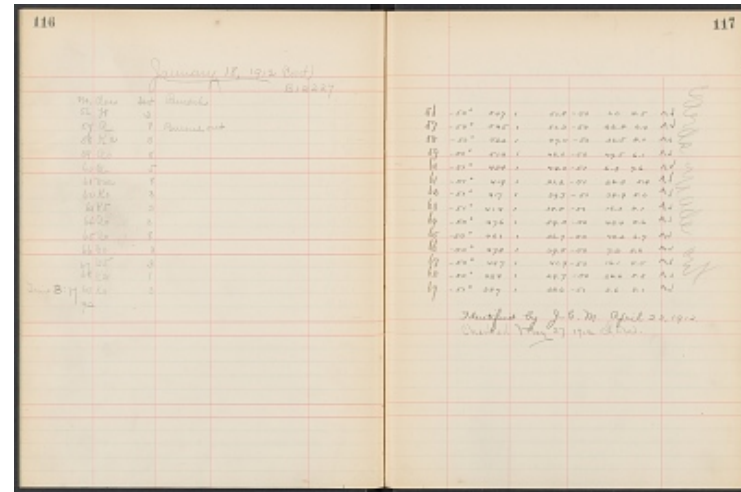
56|-50° 547|1 51.8|-50 1.0|8.5|  
57|-50° 545|1 51.3|-50 26.8|6.4|  
58|-50° 522|1 47.0|-50 36.5|8.0|  
59|-50° 514|1 46.0|-50 49.5|6.1|  
60|-51° 434|1 44.0|-51 6.3|7.6|  
61|-51° 419|1 41.2|-51 26.3|5.8|  
62|-51° 417|1 39.7|-51 38.9|8.0|  
63|-51° 414|1 38.8|-51 16.3|8.1|  
64|-50° 476|1 39.3|-50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

[[right margin]]

cards made out

[[right margin]]

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



Project PHaEDRA- Annie Jump Cannon 36  
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118

January 18, 1912

Time 3.20 B 12229

[[four column table]]

No.|Class|Int.|Remark|

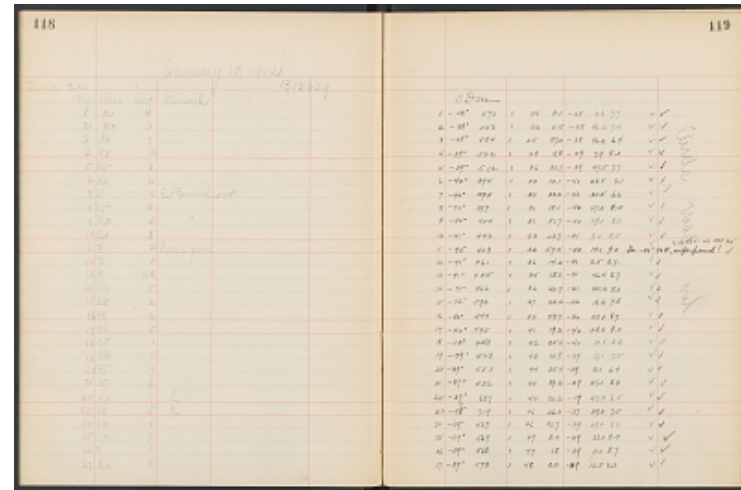
1	K0	4	
2	K0	3	
3	F0	7	
4	G5	2	
5	G5	3	
6	K0	2	
7	F	8	E. Burned out
8	F5	3	
9	A0	4	
10	A0	3	
11	F	2	Focus poor
12	G	1	
13	G	[[ <del>1</del> ]]	1 [[ <del>1</del> ]]
14	A0	5	
15	G5	3	
16	F8	2	
17	B8	5	
18	G5	1	
19	F2	5	
20	F5	7	
21	F5	3	
22	K0	7	E
23	F8	5	E
24	F2	4	
25	A2	5	
26	G	1	
27	K0	8	

119

Cards Made Out\

[[five column table]]

	CDM				
1	-38° 573	1 34 11.1	-38 6.6	7.7	[[check]] [[check]]
2	-38° 556	1 32 0.5	-38 46.2	7.4	[[check]] [[check]]
3	-38° 584	1 35 57.3	-38 46.2	6.4	[[check]] [[check]]
4	-39° 522	1 38 4.8	-39 7.9	8.3	[[check]] [[check]]
5	-39° 512	1 36 36.7	-39 47.5	7.7	[[check]] [[check]]
6	-40° 394	1 30 10.0	-40 28.5	8.1	[[check]] [[check]]
7	-40° 395	1 30 23.2	-40 35.5	6.6	[[check]] [[check]]
8	-40° 399	1 31 18.1	-40 47.0	8.5	[[check]] [[check]]
9	-40° 404	1 31 51.7	-40 49.0	8.3	[[check]] [[check]]
10	-40° 446	1 33 23.7	-41 7.0	8.5	[[check]] [[check]]
11	-40° 409	1 32 57.4	-40 14.1	9.0	Is -40° 408 superposed? 1 32 56.5
12	-41° 461	1 36 14.2	-41 2.5	8.7	[[check]] [[check]]
13	-41° 455	1 35 18.6	-41 46.4	8.7	[[check]] [[check]]
14	-41° 466	1 36 40.7	-41 45.2	8.0	[[check]] [[check]]





15	-42° 592	1 37 22.2	-42 16.6	7.8	[[check]]	[[check]]
16	-40° 444	1 40 49.7	-40 53.0	8.7	[[check]]	[[check]]
17	-40° 445	1 41 19.2	-40 34.0	8.0	[[check]]	[[check]]
18	-40° 450	1 42 25.6	-40 11.1	8.4	[[check]]	[[check]]
19	-39° 548	1 43 16.9	-39 17.1	7.5	[[check]]	[[check]]
20	-39° 553	1 44 25.4	-39 2.1	6.4	[[check]]	[[check]]
21	-39° 556	1 44 39.2	-39 27.1	8.0	[[check]]	[[check]]
22	-37° 687	1 42 20.2	-37 47.3	6.5	[[check]]	[[check]]
23	-37° 719	1 46 26.0	-37 39.3	7.5	[[check]]	[[check]]
24	-39° 567	1 46 32.7	-39 29.4	8.0	[[check]]	[[check]]
25	-39° 569	1 47 3.4	-39 22.0	8.0	[[check]]	[[check]]
26	-39° 568	1 47 1.8	-39 11.0	8.7	[[check]]	[[check]]
27	-39° 573	1 48 0.3	-39 12.5	6.3	[[check]]	[[check]]

Project PHaEDRA- Annie Jump Cannon 36  
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120

January 18, 1912 (cont)  
B12229

[[four column table]]

No.|Class|Int.|Remark

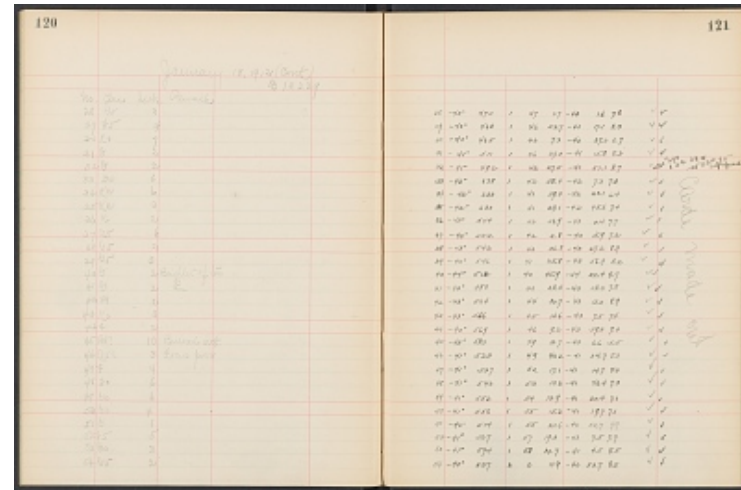
28	G5	3	
29	F5	4	
30	K0	7	
31	G	2	
32	G	2	
33	G0	6	
34	K2	6	
35	K2	3	
36	K	2	
37	A5	6	
38	G5	2	
39	G5	3	
40	G	2	Brighter of two
41	G	2	E.
42	F8	2	
43	K0	3	
44	F	2	
45	B8?	10	Burned out
46	A5?	3	Focus poor
47	F	4	
48	F0	6	
49	G0	6	
50	G0	4	
51	G	1	
52	F5	5	
53	G0	2	
54	G5	2	

121

[[right margin]]  
Cards made Out  
[[/right margin]]

[[five column table]]

28	-40° 470	1 47 1.7	-40 1.6	7.8	[[check]]	[[check]]
29	-40° 468	1 46 53.7	-40 17.1	8.3	[[check]]	[[check]]
30	-40° 465	1 46 7.3	-40 27.0	6.7	[[check]]	[[check]]
31	-41° 511	1 46 37.0	-41 15.8	8.3	[[check]]	[[check]]
32	-41° 492	1 42 27.5	-41 51.1	8.7	[[check, check]]	^[[[-41° 493 1 42
28.4 -41 53.0 9.5 superposed]]						
33	-42° 638	1 42 58.4	-42 7.3	7.0	[[check]]	[[check]]
34	-42° 633	1 41 59.0	-42 23.1	6.4	[[check]]	[[check]]
35	-42° 630	1 41 29.1	-42 45.6	7.4	[[check]]	[[check]]
36	-43° 544	1 40 56.9	-43 0.4	7.7	[[check]]	[[check]]
37	-43° 552	1 42 2.8	-43 15.9	7.2	[[check]]	[[check]]
38	-43° 542	1 40 36.8	-43 27.2	8.9	[[check]]	[[check]]



39	-43°	546	1 41 25.8	-43 56.9	8.2	[[check]]	[[check]]
40	-44°	512	1 40 45.9	-44 32.4	8.7	[[check]]	[[check]]
41	-43°	488	1 30 28.4	-43 38.3	7.8	[[check]]	[[check]]
42	-43°	564	1 44 30.7	-43 13.0	8.9	[[check]]	[[check]]
43	-43°	566	1 45 14.6	-43 7.5	7.4	[[check]]	[[check]]
44	-43°	569	1 46 9.2	-43 59.3	9.0	[[check]]	[[check]]
45	-43°	583	1 49 10.7	-43 6.6	5.5	[[check]]	[[check]]
46	-41°	523	1 49 43.2	-41 34.7	8.3	[[check]]	[[check]]
47	-41°	537	1 52 17.1	-41 14.7	8.0	[[check]]	[[check]]
48	-41°	546	1 53 13.6	-41 46.4	7.3	[[check]]	[[check]]
49	-41°	552	1 54 13.9	-41 20.4	7.1	[[check]]	[[check]]
50	-41°	556	1 55 15.2	-41 19.7	7.1	[[check]]	[[check]]
51	-40°	514	1 55 20.6	-40 52.7	7.9	[[check]]	[[check]]
52	-41°	567	1 57 19.0	-41 7.5	7.7	[[check]]	[[check]]
53	-41°	574	1 58 30.7	-41 4.5	8.5	[[check]]	[[check]]
54	-40°	537	2 0 11.9	-40 53.7	8.5	[[check]]	[[check]]

Project PHaEDRA- Annie Jump Cannon 36  
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January 18, 1912 (cont.)

B 12229  
[[4 column table]]

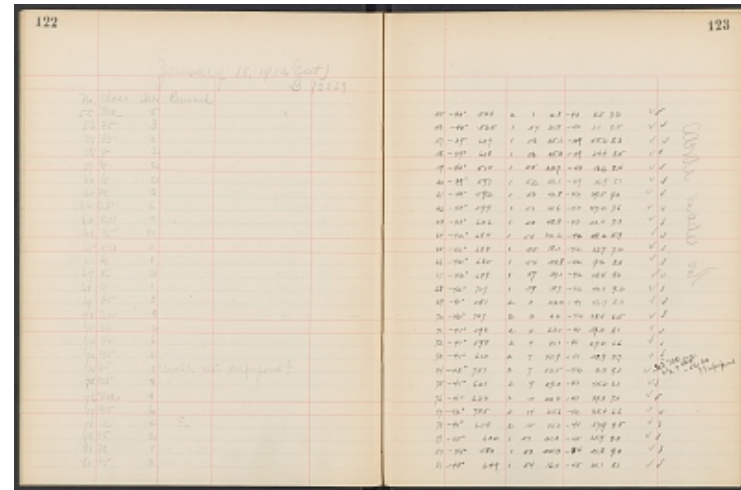
No.	Class	Int.	Remark
55	Ma 5		
56	F5 3		
57	F5 3		
58	F 2		
59	G 2		
60	G 2		
61	F8 3		
62	A2 6		
63	K2 3		
64	G5 10		
65	K2 3		
66	G 1		
67	K 2		
68	G 1		
69	F5 3		
70	A2 8		
71	G0 2		
72	F0 6		
73	G5 2		
74	G 3	Another star superposed ?	
75	G5 8		
76	Ma 4		
77	G5 6		
78	A 4	E	
79	F5 2		
80	F8 1		
81	F5 3		

123

[[right margin]]  
Cards Made Out  
[[/right margin]]

[[5 column table]]

55	-40° 544	2 1 2.8	-40 8.5	7.2
56	-40° 525	1 57 21.8	-40 1.1	8.5
57	-39° 609	1 56 35.6	-39 55.2	8.3
58	-39° 608	1 56 35.3	-39 24.4	8.5
59	-40° 515	1 55 23.7	-40 16.6	8.4
60	-39° 597	1 52 50.1	-39 56.9	8.1
61	-43° 592	1 50 40.8	-43 39.5	9.0
62	-43° 599	1 51 41.6	-43 47.2	7.6
63	-43° 606	1 53 48.8	-43 33.4	7.3
64	-42° 684	1 54 30.2	-42 38.2	5.9
65	-42° 688	1 55 18.1	-42 22.7	7.2
66	-42° 685	1 54 54.8	-42 9.2	8.3
67	-42° 699	1 57 37.1	-42 14.4	8.0
68	-42° 707	1 59 18.7	-42 40.1	9.2



69	-41° 581	2 0 33.3	-41 46.7	8.3
70	-42° 727	2 3 0.6	-42 28.4	6.5
71	-41° 596	2 4 23.1	-41 59.3	8.1
72	-41° 598	2 4 41.1	-41 27.2	6.6
73	-41° 613	2 7 45.9	-41 50.9	8.7
74	-42° 751	2 7 53.5	-42 2.3	9.1
53.8	<del>[[/strikethrough]]</del>	51.2	-42 3.4	9.9 superposed]]
75	-41° 621	2 9 29.0	-41 45.2	6.1
76	-41° 626	2 10 22.3	-41 39.3	7.0
77	-42° 785	2 14 25.6	-42 25.4	6.6
78	-41° 658	2 15 14.0	-41 57.9	8.5
79	-45° 632	1 51 31.3	-45 25.9	8.3
80	-44° 580	1 53 55.3	-44 31.8	9.0
81	-45° 649	1 54 16.4	-45 21.1	8.1

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January 24, 1912

Time 10.57 I 37433

[[4 column table]]

No. | Class | Int. | Remark

1	G5	2	E
2	G5	2	E
3	G	2	E
4	A3	6	
5	F0	3	
6	G5	4	
7	K	10	
8	F2	3	
9	G0	7	
10	G	1	
11	A3	3	G band seen. Look up
12	A	2	Difficult
13	F	3	
14	F5	4	
15	G5	4	
16	F8	2	
17	G	2	
18	A2	10	
19	A2	2	
20	G5	6	
21	A3	3	E
22	F	2	Very poor
23	G5	5	
24	G0	4	
25	K	1	
26	F0	6	
27	K0	2	

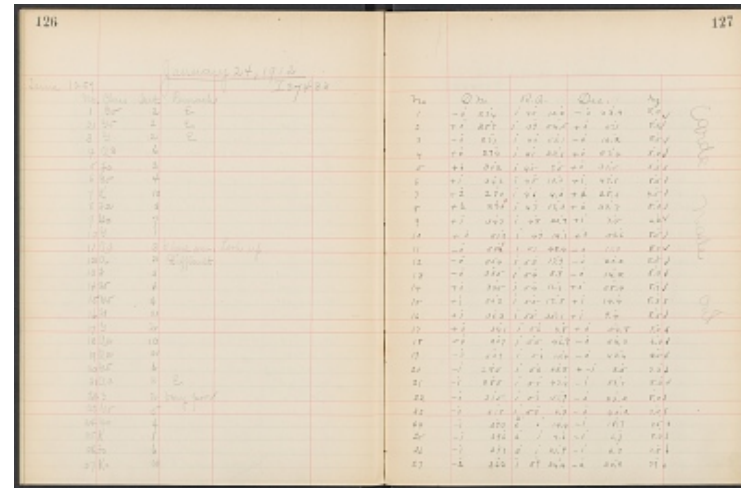
127

Cards Made Out

[[5 column table]]

No. | D.M. | R.A. | Dec. | Mg.

1	-0 274	1 40 10.2	-0 33.9	8.0
2	+0 289	1 39 54.5	+0 5.1	8.0
3	-0 277	1 40 53.1	-0 16.2	8.5
4	+0 294	1 41 33.6	+0 37.4	8.0
5	+0 302	1 45 9.5	+0 31.5	8.5
6	+1 343	1 45 10.0	+1 47.1	8.5
7	+2 290	1 46 4.0	+2 28.6	4.5
8	+2 29	<del>1 48 23.9</del>	<del>+1 7.5</del>	<del>6.2</del>
9	+1 347	1 48 23.9	+1 7.5	6.2
10	+0 313	1 49 14.1	+0 56.6	8.5
11	-0 30	<del>1 51 43.4</del>	<del>-0 11.0</del>	<del>8.3</del>
12	-0 304	1 53 17.9	-0 20.2	8.5
13	-0 305	1 54 2.9	-0 14.2	8.3



14	+0 335	1 54 11.1	+0 38.4	8.7
15	+1 362	1 55 17.8	+1 14.4	8.3
16	+1 363	1 55 35.1	+1 9.4	8.5
17	+0 341	1 56 4.8	+0 54.8	9.0
18	-0 307	1 55 46.9	-0 34.3	6.0
19	-0 309	1 56 15.4	-0 43.4	8.5
20	-1 285	1 56 22.8	*-1 2.5	7.3
21	-1 288	1 57 47.4	-1 39.7	8.3
22	-0 315	1 57 51.9	-0 23.2	8.0
23	-0 318	1 59 6.9	-0 40.2	7.3
24	-1 293	<del>1</del> 2 0 14.4	-1 18.7	7.5
25	-1 296	2 1 4.6	-1 6.7	8.3
26	-1 297	2 1 21.9	-1 6.7	7.8
27	-2 362	1 59 34.4	-2 30.8	7.9

Project PHaEDRA- Annie Jump Cannon 36  
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January 24, 1912 (Cont)  
137433

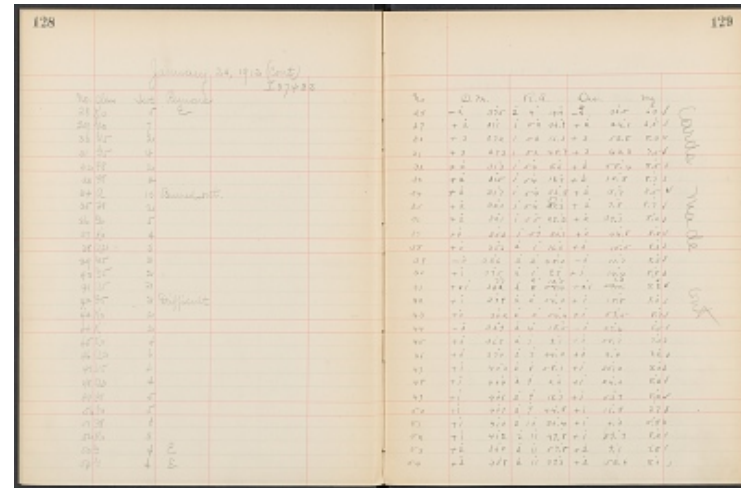
[[4 column table]]

No.	Class	Int.	Remark
28	K0	5	E
29	G0	7	
30	G5	2	
31	G5	4	
32	F8	2	
33	F8	2	
34	A	10	Burned out.
35	F8	2	
36	G0	5	
37	K0	4	
38	A2	3	
39	G5	2	
40	G5	2	
41	A5	2	
42	F5	2	Difficult
43	K0	2	
44	K	2	
45	K0	4	
46	A2	6	
47	G5	4	
48	A3	4	
49	F8	5	
50	F0	5	
51	F8	8	
52	K0	3	
53	G	4	E
54	G	4	E

129  
Cards Made Out

[[5 column table]]

No.	D.M.	R.A.	Dec.	Mg
28	-2 375	2 4 14.4	[[/strickethrough]]-1[[/strickethrough]]-2 30.5	6.3
29	+2 311	1 52 36.9	+2 24.1	6.5
30	+3 272	1 52 16.3	+3 52.8	8.3
31	+3 273	1 52 48.7	+3 42.3	7.5
32	+2 313	1 54 8.6	+2 58.4	8.5
33	+2 315	1 54 19.7	+2 10.8	8.7
34	+2 317	1 54 33.8	+2 3.7	3.5
35	+2 320	1 54 57.3	+2 7.8	8.7
36	+2 321	1 55 29.2	+2 39.1	8.0
37	+0 352	1 59 20.7	+0 44.8	8.0
38	+0 356	2 1 16.6	+0 15.5	8.3
39	-0 326	2 2 48.0	-0 11.7	8.3
40	+1 375	2 1 9.9	+1 14.4	8.8
41	[[/strickethrough]]	+0[[/strickethrough]]	+1	
	[[/strickethrough]]362	[[/strickethrough]]	377	2





~~3~~ ~~2~~ ~~54.4~~  
 12.5 ~~0~~ +1  
~~59.5~~  
 1.3 ~~8.7~~ 8.3  
 42 +1 379|2 2 56.0|+1 18.8|9.0  
 43 +0 362|2 3 54.4|+0 59.5|8.7  
 44 -0 329|2 4 18.5|-0 27.4|8.5  
 45 +0 369|2 7 9.1|+0 58.7|7.5  
 46 +0 370|2 7 44.0|+0 3.0|7.2  
 47 +1 403|2 8 58.1|+1 35.0|8.0  
 48 +1 404|2 9 0.6|+1 24.0|8.2  
 49 +1 406|2 9 19.7|+1 53.9|8.2  
 50 +1 407|2 9 44.8|+1 11.8|7.7  
 51 +1 410|2 10 30.4|+1 4.0|5.8  
 52 +1 412|2 11 49.8|+1 59.9|8.2  
 53 +2 360|2 11 57.8|+2 9.1|7.8  
 54 +2 358|2 11 39.3|+2 52.6|8.0

Project PHaEDRA- Annie Jump Cannon 36  
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January 24, 1912 (cont.)

137433  
[[4 column table]]

No.|Class|Int.|Remark|

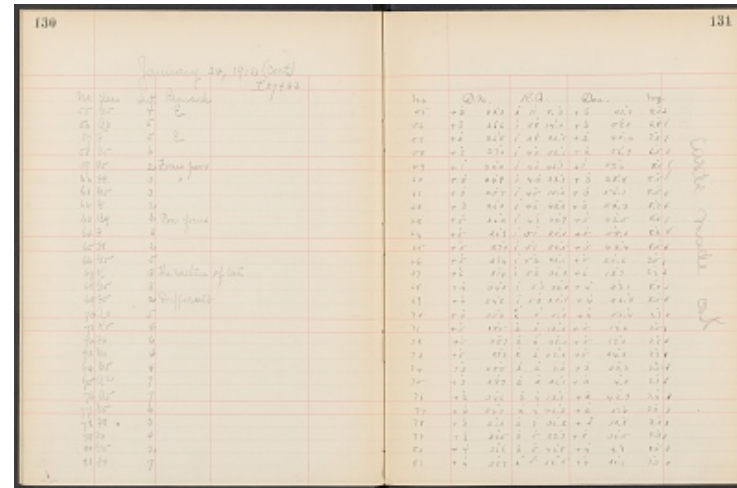
55	G5	4	E	
56	A3	5		
57	F	5	E	
58	G5	6		
59	F5	2	Focus poor	
60	F8	3	Focus poor	
61	G5	3		
62	G	2		
63	B9	6	Poor focus	
64	F	3		
65	F8	2		
66	G5	5		
67	K	3	The northern of lino. [[?]]	
68	G5	3		
69	F5	2	Difficult	
70	A0	5		
71	K5	4		
72	F0	6		
73	G0	4		
74	G5	4		
75	A2	7		
76	A5	7		
77	G5	6		
78	F8	3		
79	F0	4		
80	G5	2		
81	F0	7		

131

[[6 column table]]

No.|D.M.|R.A.|Dec.|Mg| |

55	+3 323	2 11 8.3	+3 31.3	8.0	symbol-check mark
56	+2 266	1 38 14.0	+2 57.0	6.8	symbol-check mark
57	+2 268	1 38 26.1	+2 40.4	7.3	symbol-check mark
58	+2 270	1 40 56.1	+2 56.9	6.5	symbol-check mark
59	+1 322	1 40 46.1	+1 59.4	8.5	^[[carde made out]]
60	+3 249	1 43 29.1	+3 28.8	8.5	^[[carde made out]]
61	+3 257	1 45 15.0	+3 56.1	8.5	symbol-check mark
62	+3 260	1 46 43.0	+3 52.3	8.7	symbol-check mark
63	+5 262	1 47 44.9	+5 42.5	8.0	symbol-check mark
64	+5 269	1 51 20.0	+5 58.0	8.2	symbol-check mark
65	+5 270	1 51 30.5	+5 43.4	8.5	symbol-check mark
66	+5 274	1 52 23.6	+5 20.6	7.5	symbol-check mark
67	+6 314	1 52 36.2	+6 13.7	7.7	symbol-check mark



68 |+4 340|1 53 34.0|+4 37.1|8.0|symbol-check mark|  
 69 |+4 348|1 58 20.1|+4 36.8|8.5|symbol-check mark|  
 70 |+4 354|~~1~~ ~~2 0 5.0~~|+4  
 56.4|7.7|symbol-check mark|  
 71 |+5 285|2 0 12.0|+5 17.6|7.5|symbol-check mark|  
 72 |+5 289|2 ~~0~~ ~~1 48.0~~|+5  
 17.6|7.7|symbol-check mark|  
 73 |+5 293|2 2 57.0|+5 24.3|7.7|symbol-check mark|  
 74 |+3 288|2 2 7.0|+3 33.3|7.5|symbol-check mark|  
 75 |+3 289|2 2 21.1|+3 4.3|7.1|symbol-check mark|  
 76 |+2 346|2 4 13.1|+2 46.9|7.4|symbol-check mark|  
 77 |+2 347|2 4 46.2|+2 5.2|7.3|symbol-check mark|  
 78 |+3 310|2 7 36.2|+3 10.8|8.3|symbol-check mark|  
 79 |+3 305|2 5 29.7|+3 36.5|8.3|symbol-check mark|  
 80 |+4 366|2 5 41.8|+4 4.3|8.5|symbol-check mark|  
 81 |+4 367|2 5 56.5|+4 20.1|7.3|symbol-check mark|

Project PHaEDRA- Annie Jump Cannon 36  
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132

January 24, 1912 (Cont)

[[1]]37433

[[4 column table]]

No.	Class	Int.	Remark
82	F5	2	
83	F0	4	
84	F2	6	
85	F5	6	
86	K0	6	
87	F0	7	
88	F2	3	
89	Ma	4	
90	F2	3	Difficult
Time 11.22 91	K0	4	

133

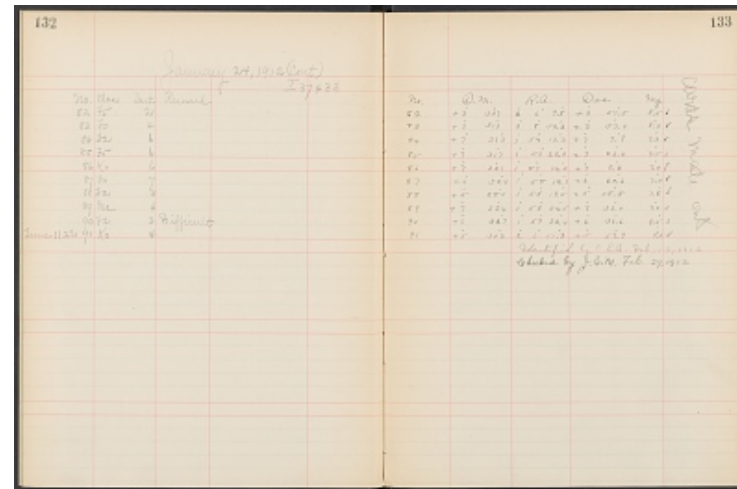
Cards Made out

[[5 column table]]

No.	D.M.	R.A.	Dec.	Mg.
82	+3 307	2 6 9.8	+3 51.5	8.5
83	+3 313	2 8 52.2	+3 57.0	8.0
84	+7 313	1 54 13.3	+7 9.9	7.3
85	+7 317	1 56 22.0	+7 23.6	7.5
86	+7 321	1 57 14.0	+7 2.2	7.0
87	+6 324	1 58 12.1	+6 20.6	7.0
88	+5 280	1 58 19.5	+5 58.8	7.8
89	+7 324	1 58 34.5	+7 33.0	7.0
90	+6 327	1 59 32.4	+6 36.6	8.5
91	+5 303	2 6 55.9	+5 57.9	8.0

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

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



Project PHaEDRA- Annie Jump Cannon 36  
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134

January 24, 1912

Time 11.28 137412

[[4 column table]]

No.|Class|Int.|Remark|

1|A4|E|  
2|G3|E|  
3|G5|2|E|  
4|G0|5|  
5|K2| |  
6|F5|3| |  
7|G2| |  
8|G5|3| |  
9|G2|Difficult|  
10|B8|5| |  
11|K0|4| |  
12|F8|2|Another star superposed [[equation]]|  
13|F8|3| |  
14|G5|8|Too dense|  
15|G5|3| |  
16|K5|1| |  
17|A5|2|Difficult|  
18|F0|8| |  
19|A0|8| |  
20|A0|2| |  
21|K0|2| |  
22|F5|2| |  
23|G5|8| |  
24|G5|8| |  
25|K2| |  
26|A2|3|Focus poor|  
27|G5|2| |

135

[[6 column table]]

No|DM|RA|Dec|Mg|

1|+10 65|0 29 46.1|+10 37.6|7.3|[[symbol-check mark]]|  
2|+10 70|0 32 8.1|+10 44.2|7.3|[[symbol-check mark]]|  
3|+11 86|0 34 36.7|+11 9.4|8.2|[[symbol-check mark]]|  
4|+12 75|0 34 0.7|+12 9.8|7.9|[[symbol-check mark]]|  
5|+12 78|0 34 24.0|+12 20.0|8.4|[[symbol-check mark]]|  
6|+1|[[strikethrough]] 2 |[[\strikethrough]] ^[[3]] 94|0 34 48.5|+1|[[strikethrough]] 2 |[[\strikethrough]] ^[[3]] 12.4|8.5|[[symbol-check mark]]|  
7|+12 80|0 35 6.2|+12 50.9|8.8|[[symbol-check mark]]|  
8|+12 83|0 36 40.5|+12 31.0|8.2|[[symbol-check mark]]|

The image shows two pages of a handwritten astronomical observation notebook, numbered 134 and 135. The pages contain handwritten data in a table format, with columns for No., Class, Int., and Remark. The handwriting is in cursive and the paper is aged and slightly discolored. The data on page 134 includes entries for various stars, with some remarks like "Another star superposed" and "Too dense". The data on page 135 continues the list of stars and observations.

9|+12 86|0 38 21.6|+12 59.4|9.1|[[symbol-check mark]]  
 10|+13 107|0 39 5.5|+13 12.2|8.7|[[symbol-check mark]]  
 11|+12 87|0 38 57.0|+12 21.3|7.5|[[symbol-check mark]]  
 12|+12 89|0 40 8.0|+12 4.7|8.4|[[symbol-check mark]]  
 13|+11 92|0 38 31.8|+11 18.5|8.3|[[symbol-check mark]]  
 14|+11 96|0 39 28.4|+11 11.7|5.2|[[symbol-check mark]]  
 15|+10 89|0 39 56.5|+10 51.1|7.7|[[symbol-check mark]]  
 16|+12 95|0 41 24.2|+12 5.1|8.3|[[symbol-check mark]]  
 17|+11 98|0 41 4.4|+11 22.4|8.8|[[symbol-check mark]]  
 18 |+11 106|0 44 0.1|+11 59.9|7.0| [[symbol-check mark]]  
 19|+12 104|0 44 54.4|+12 51.6|[[symbol]] 7.3|[[symbol-check mark]]  
 20|+11 111|0 45 17.5|+11 28.0|9.1|[[symbol-check mark]]  
 21|+12° 108|0 47 26.5|+12 3.9|8.2|[[symbol-check mark]]  
 22|+12 112|0 48 27.5|+12 49.4|8.9|[[symbol-check mark]]  
 23|+13 127|0 48 32.7|+13 10.6|6.5|[[symbol-check mark]]  
 24 |+12 119|0 50 18.7|+12 56.1|6.0|[[symbol-check mark]]  
 25|+11 120|0 49 45.7|+11 39.1|8.2|[[symbol-check mark]]  
 26|+11 122|0 50 19.6|+11 15.2|8.5|[[symbol-check mark]]  
 27|+11 124|0 50 53.8|+11 21.1|8.5|[[symbol-check mark]]

[[right margin]]  
 cards made out  
 [[/right margin]]

Project PHaEDRA- Annie Jump Cannon 36  
 Transcribed and Reviewed by Digital Volunteers  
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136

January 24, 1912 (cont)  
137412

[[four column table]]

No.|Class|Int.|Remark

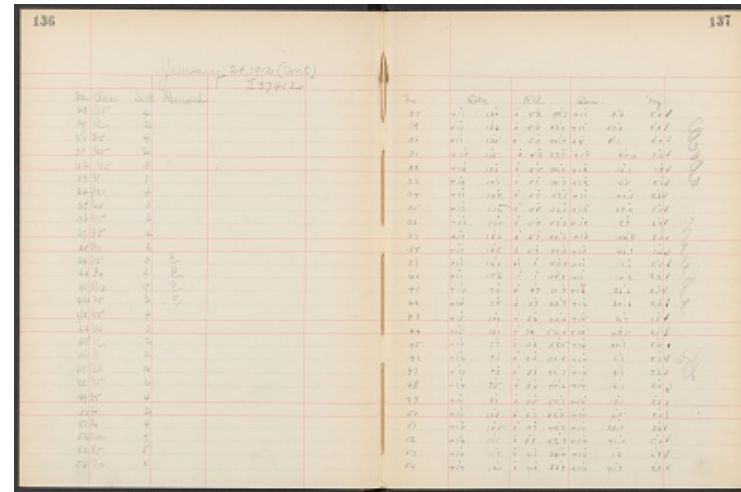
28|A5|4| |  
29|A|2| |  
30|F5|4| |  
31|G5|2| |  
32|G5|3| |  
33|G|1| |  
34|F2|4| |  
35|G0|3| |  
36|G5|6| |  
37|F5|4| |  
38|F0|6| |  
39|F5|3|E|  
40|F0|4|E|  
41|B3|9|E|  
42|F5|2|E|  
43|G5|4| |  
44|G0|3| |  
45|K|2| |  
46|G|2| |  
47|A0|2| |  
48|G5|2| |  
49|F5|4| |  
50|F0|2| |  
51|F0|4| |  
52|MA|7| |  
53|K5|5| |  
54|A0|3| |

137

Cards Made Out

[[five column table]]

No|DM|RA|Dec|Mg|  
28|+11 130|0 52 38.7|+11 9.3|8.0|  
29|+11 132|0 53 27.7|+11 37.0|8.8|  
30|+11 135|0 53 45.9|+11 8.1|8.0|  
31|+10 115|0 53 39.7|+10 23.4|8.2|  
32|+12 126|0 55 30.0|+12 16.1|7.8|  
33|+12 131|0 57 36.3|+12 3.5|8.7|  
34|+11 142|0 57 57.1|+11 40.5|8.3|  
35|+12 134|0 58 34.0|+12 29.2|8.0|  
36|+12 135|0 58 57.3|+12 9.9|6.2|  
37|+10 123|0 57 34.3|+10 32.8|8.0|  
38|+10 128|0 59 29.0|+10 46.9|7.6|  
39|+11 146|1 0 23.8|+11 16.6|8.8|  
40|+11 152|1 1 38.8|+11 14.2|8.2|  
41|+14 76|0 29 16.3|+1 ~~3~~ ~~4~~ 26.6|  
6.1



42	+14 78	0 29 33.9	+14 20.6	8.3
43	+15 100	0 32 43.6	+15 2.4	7.8
44	+15 101	0 32 54.0	+15 48.5	8.5
45	+14 89	0 32 59.5	+14 27.7	8.2
46	+14 91	0 33 30.3	+14 1.1	8.7
47	+14 92	0 33 40.7	+14 9.7	9.2
48	+14 95	0 34 45.6	+14 16.1	8.5
49	+14 97	0 35 50.7	+14 18.1	8.3
50	+14 103	0 37 23.3	+14 6.5	8.6
51	+14 105	0 37 43.7	+14 22.3	8.2
52	+14 111	0 38 59.9	+14 41.0	5.0
53	+14 117	0 41 30.0	+14 1.2	6.8
54	+14 121	0 42 52.9	+14 41.7	8.3

Project PHaEDRA- Annie Jump Cannon 36  
 Transcribed and Reviewed by Digital Volunteers  
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138

January 24, 1912 (cont)

137412

[[four column table]]

No. | Class | Int. | Remark

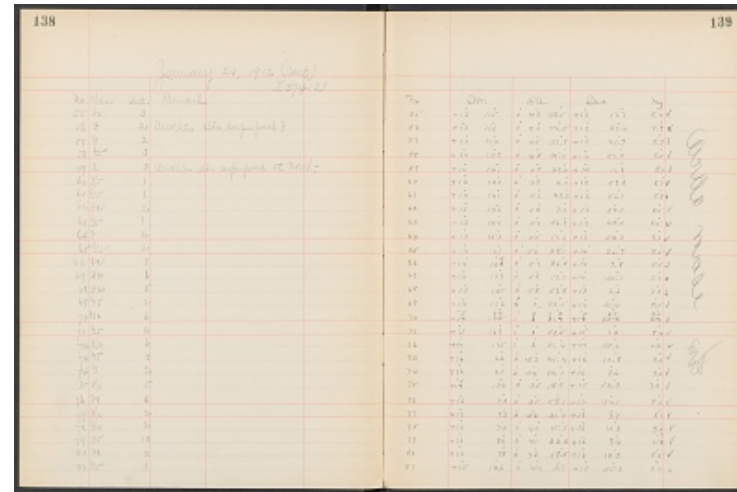
55 | F0 | 3 | |  
 56 | F | 2 | Another star superposed?  
 57 | G | 2 | |  
 58 | G5 | 3 | |  
 59 | A | 3 | Another star superposed at North  
 60 | K5 | 1 | |  
 61 | G5 | 1 | |  
 62 | F2 | 2 | |  
 63 | G5 | 1 | |  
 64 | F | 2 | |  
 65 | G5 | 2 | |  
 66 | F2 | 8 | |  
 67 | F2 | 6 | |  
 68 | F2 | 5 | |  
 69 | G5 | 2 | |  
 70 | G0 | 4 | |  
 71 | G5 | 2 | |  
 72 | K0 | 6 | |  
 73 | F5 | 3 | |  
 74 | G | 2 | |  
 75 | K0 | 5 | |  
 76 | F8 | 4 | |  
 77 | K0 | 2 | |  
 78 | G0 | 2 | |  
 79 | F5 | 10 | |  
 80 | F8 | 3 | |  
 81 | G5 | 3 | |

139

Cards made Out

[[five column table]]

No.	DM	RA	Dec	Mg.
55	+13 115.0	43 38.5	+13 17.7	8.4
56	+13 116.0	43 46.5	+13 27.4	8.9
57	+13 122.0	45 33.8	+13 41.9	8.9
58	+14 139.0	48 35.0	+14 51.8	8.5
59	+14 141.0	48 49.4	+14 11.9	8.7
60	+13 130.0	49 6.0	+13 59.0	8.7
61	+13 141.0	51 27.3	+13 56.1	8.9
62	+13 143.0	52 7.7	+13 50.1	8.5
63	+13 150.0	54 56.9	+13 28.0	8.5
64	+13 153.0	55 17.6	+13 52.3	9.1
65	+14 161.0	56 28.1	+14 26.9	8.5
66	+14 16	<del>57 26.8</del>	<del>+14 9.8</del>	<del>5.5</del>



67|+14 169|0 58 17.7|+14 35.7 |7.7|[[check]]  
 68|+13 165|0 58 57.8|+13 6.6 |7.3|[[check]]  
 69|+14 172|[[strikethrough]] 0 [[/strikethrough]] ^[[1]] 0 32.5|+14 21.4  
 |8.5|[[check]]  
 70|+1[[strikethrough]]4[[/strikethrough]] ^[[5]]  
 1[[strikethrough]]75[[/strikethrough]] ^[[64]]1  
 [[strikethrough]]2[[/strikethrough]] ^[[0]]  
 [[strikethrough]]3[[/strikethrough]]^[[1]]1. [[strikethrough]]4[[/strikethrough]]  
 ] ^[[8]]+1[[strikethrough]]4[[/strikethrough]]^[[5]]  
 [[strikethrough]]53.6[[/strikethrough]] ^[[4.7]] [[strikethrough]] 6.4  
 [[/strikethrough]] ^[[8.0]] [[check]]  
 71|+15 167|1 0 53.5|+15 1.2 |8.4|[[check]]  
 72|+14 175|1 2 31.4|+14 53.6 |6.4|[[check]]  
 73|+16 62 |0 33 45.4|+16 10.8 |9.0|[[check]]  
 74|+16 65 |0 34 10.1|+16 9.6 |9.0|[[check]]  
 75|+1[[strikethrough]]4[[/strikethrough]] ^[[5]] 106|0 35 18.3|+15 52.3  
 |7.3|[[check]]  
 76|+16 70 |0 35 58.1|+16 34.1 |8.6|[[check]]  
 77|+17 93 |0 36 31.7|+17 7.7 |8.1|[[check]]  
 78|+16 74 |0 40 15.3|+16 10.3 |9.0|[[check]]  
 79|+16 76 |0 41 23.2|+16 9.4 |5. [[strikethrough]]2[[/strikethrough]]  
 ^[[7]] [[check]]  
 80|+16 78 |0 42 59.5|+16 12.3 |8.5|[[check]]  
 81|+15 126|0 44 13.7|+15 55.3 |8.4|[[check]]

Project PHaEDRA- Annie Jump Cannon 36  
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140  
January 24, 1912 (cont.)  
I 37412

[[4 column table]]

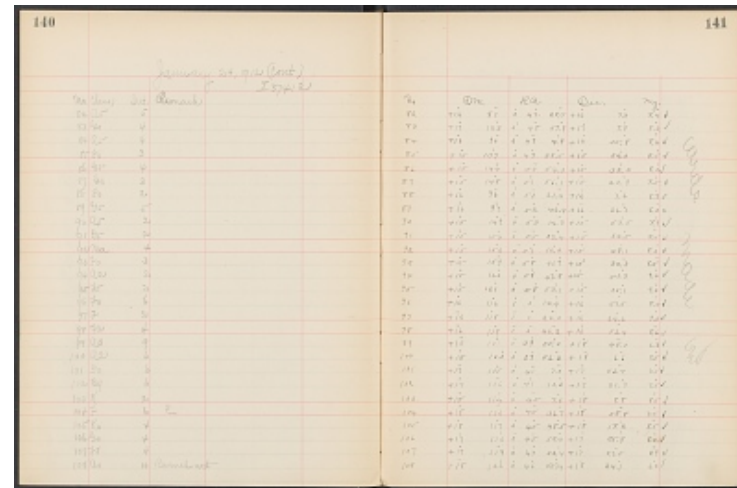
No. | Class | Int. | Remark

82	A5	5	
83	G0	4	
84	A5	4	
85	F0	3	
86	G5	4	
87	G0	3	
88	F0	2	
89	G5	5	
90	A5	2	
91	G5	2	
92	Ma	4	
93	F0	3	
94	A2	2	
95	F5	2	
96	F0	6	
97	F	2	
98	F2	4	
99	A3	9	
100	A2	6	
101	G0	6	
102	B9	6	
103	K	2	
104	F	6	E
105	K0	4	
106	G0	4	
107	F8	4	
108	A0	10	Burned out

141  
Cards Made Out

[[5 column table]]

No.	DM	RA	Dec.	Mg.
82	+16 87	0 47 28.5	+16 7.3	8.4
83	+17 123	0 48 59.9	+17 9.9	8.2
84	+16 90	0 49 4.9	+16 55.8	8.4
85	+15 139	0 49 38.5	+15 34.0	8.5
86	+15 144	0 50 54.3	+15 32.3	8.0
87	+15 148	0 51 56.1	+15 20.9	8.5
88	+16 96	0 51 21.4	+16 7.6	8.9
89	+16 97	0 52 42.4	+16 26.7	8.0
90	+15 149	0 53 14.3	+15 53.5	8.9
91	+15 154	0 55 22.4	+15 22.5	8.5
92	+15 156	0 57 16.0	+15 28.1	8.0
93	+15 159	0 58 41.9	+15 32.3	8.5
94	+15 160	0 58 47.8	+15 51.3	9.0
95	+15 161	0 58 53.1	+15 35.1	9.0
96	+16 116	1 0 12.4	+16 37.5	8.0
97	+16 118	1 0 23.0	+16 24.6	9.0



98		+16	119		1	0	46.2		+16	52.4		8.6
99		+18	101		0	39	35.0		+18	48.0		6.3
100		+18	103		0	39	56.2		+18	6.6		7.5
101		+17	105		0	41	7.0		+17	53.4		7.5
102		+17	106		0	41	10.2		+17	31.7		7.5
103		+18	114		0	45	7.6		+18	9.8		8.5
104		+18	116		0	45	36.7		+18	58.8		7.5
105		+18	117		0	45	48.5		+18	18.2		8.5
106		+17	116		0	45	53.4		+17	35.8		8.0
107		+17	119		0	47	32.4		+17	27.5		8.9
108		+18	122		0	46	55.4		+18	24.1		6.0

Project PHaEDRA- Annie Jump Cannon 36  
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January 24, 1912 (cont)

I37412

[[four column table]]

No. | Class | Int. | Remark

109 | F2 | 4 | E  
110 | A5 | 3 | E  
111 | F0 | 3 | E  
112 | G5 | 3 | E  
113 | F | 3 | |  
114 | G5 | 6 | |  
115 | G5 | 7 | |  
116 | F2 | 4 | |  
117 | G5 | 3 | |  
118 | F0 | 4 | |  
119 | G5 | 4 | |  
120 | G5 | 3 | |  
121 | Mb | 3 | |  
122 | G | 4 | E focus very poor  
123 | G5 | 4 | E  
124 | G | 7 | E  
125 | A3 | 3 | E

12.03

126 | 1 | G5 | |  
127 | 2 | G0 | |

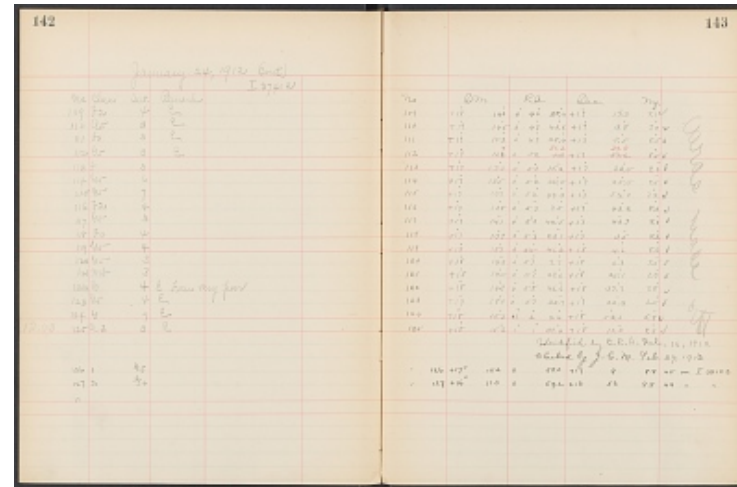
143

Cards Made Out

[[5 column table]]

No. | DM | RA | Dec | Mg.

109 | +19 140 | 0 46 28.4 | +19 17.3 | 8.1  
110 | +19 145 | 0 47 43.6 | +19 3.8 | 9.0  
111 | +19 152 | 0 49 28.4 | +19 5.5 | 8.5  
112 | +19 16 ~~[[/strikethrough]]~~ 2 ~~[[/strikethrough]]~~ 7 | 0 52 ~~[[/strikethrough]]~~  
1.3 ~~[[/strikethrough]]~~ 51.2 | +19 ~~[[/strikethrough]]~~ 51.6 ~~[[/strikethrough]]~~  
29.8 | 8.5  
113 | +17 130 | 0 50 15.2 | +17 22.5 | 9.0  
114 | +17 135 | 0 52 35.5 | +17 25.5 | 7.5  
115 | +17 137 | 0 52 47.3 | +17 54.0 | 7.2  
116 | +17 138 | 0 53 7.5 | +17 43.2 | 8.0  
117 | +17 141 | 0 53 44.5 | +17 43.9 | 8.0  
118 | +17 139 | 0 53 23.1 | +17 3.5 | 8.2  
119 | +18 137 | 0 55 41.2 | +18 4.6 | 8.2  
120 | +18 143 | 0 57 7.7 | +18 6.9 | 7.5  
121 | +18 145 | 0 57 29.6 | +18 25.1 | 7.3  
122 | +18 149 | 0 58 46.6 | +18 37.7 | 7.8



123 | +19 180 | 0 59 22.7 | +19 22.3 | 6.5  
124 | +18 153 | 1 2 4.4 | +18 52.6 | 5.8  
125 | +18 152 | 1 1 39.4 | +18 10.3 | 8.3

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

126 | +17° 152 | 0 58.0 | +17 8 | 8.8 45 on I 38103  
127 | +16° 113 | 0 59.2 | +16 56 | 8.8 44 on I 38103

Project PHaEDRA- Annie Jump Cannon 36  
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January 25, 1912  
Time 12.17 137467

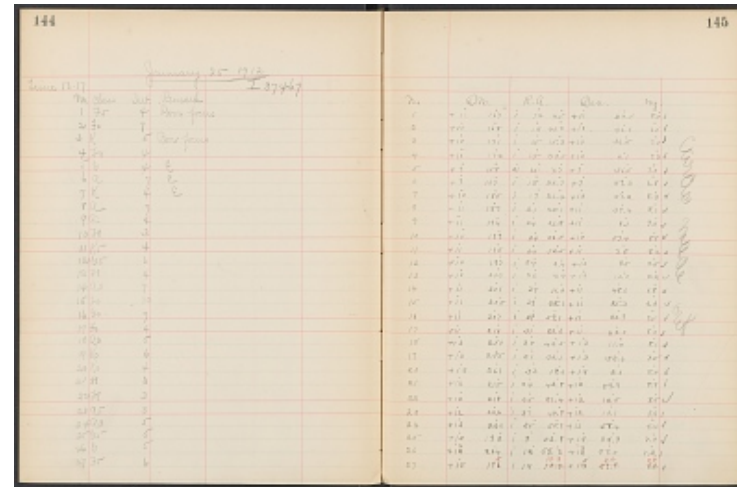
[[4 column table]]  
No. | Class | Int. | Remark

1	F5	4	Poor focus
2	F0	7	
3	K	5	Poor focus
4	F0	4	
5	G	4	E
6	A	7	E
7	K	4	E
8	A	7	
9	A	4	
10	F8	3	
11	K5	4	
12	G5	6	
13	F8	4	
14	A3	7	
15	F0	10	
16	G0	7	
17	F0	4	
18	A3	5	
19	K0	6	
20	K0	4	
21	F8	3	
22	F8	3	
23	A5	3	
24	A3	5	
25	G5	5	
26	G	5	
27	F5	6	

145  
Cards Made Out

[[5 column table]]  
No. | DM | RA | Dec | Mg.

1	+11 167	1 12 4.5	+11 20.5	8.0
2	+10 168	1 13 41.3	+10 46.6	6.5
3	+10 171	1 15 15.3	+10 36.5	7.0
4	+10 172	1 15 43.5	+10 6.1	7.3
5	+9 158	1 15 7.7	+9 36.5	7.0
6	+9 167	1 18 20.7	+9 39.3	6.8
7	+10 185	1 19 21.4	+10 37.2	8.3
8	+11 187	1 21 45.1	+11 39.4	8.1
9	+11 194	1 24 21.8	+11 6.1	9.0
10	+10 199	1 24 32.5	+10 57.4	8.8
11	+11 198	1 24 52.5	+11 7.8	8.2
12	+10 197	1 24 3.4	+10 9.5	7.5
13	+10 203	1 26 4.4	+10 10.0	8.2
14	+11 201	1 27 11.0	48.6	6.8
15	+11 205	1 29 25.1	+11 25.3	6.0
16	+11 207	1 29 59.1	+11 20.9	7.5



17		+11	210		1	31	29.6		+11	42.0		8.0
18		+13	250		1	30	43.5		+13	11.4		8.1
19		+13	255		1	31	30.1		+13	33.6		7.5
20		+13	261		1	33	19.6		+13	2.6		8.0
21		+12	215		1	34	42.8		+12	59.9		8.8
22		+12	218		1	35	31.4		+12	12.5		8.5
23		+12	226		1	37	44.9		+12	10.1		8.8
24		+13	266		1	35	55.9		+13	58.4		8.4
25		+13	192		1	9	52.9		+13	28.9		7.0
26		+1	<del>3</del>		4	204		1	12	58.3		+1
			<del>3</del>		4	57.0						7.2
27		+15	19		6	<del>8</del>		1	14	<del>10.3</del>		19.9
			<del>19.9</del>		+1	<del>5</del>		37.9		8.8		<del>5</del>
			<del>5</del>									7.8

Project PHaEDRA- Annie Jump Cannon 36  
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146

January 25, 1912 (Cont)

I 37467

[[4 column table]]

No.	Class	Int.	Remark
28	G   3		
29	G5   3		
30	G   3		
31	K   3		
32	G   6		
33	G5   2		
34	G0   3		
35	G   10+		Burned out
36	Mb   3		
37	Mb   4		
38	G5   <del>[[/strickethrough]]</del>	4 <del>[[/strickethrough]]</del>	5
39	A2   5		
40	F5   4		
41	G5   4		
42	A   10		Burned out
43	K0   3		
44	K0   4		
45	G5   6		
46	F5   7		
47	F0   8		
48	G   3		
49	K5   4		
50	K0   4		
<del>[[/strickethrough]] 51 <del>[[/strickethrough]]</del></del>			

Time 12.28

Plate poor but more can be used if necessary.

cont. 129, 122

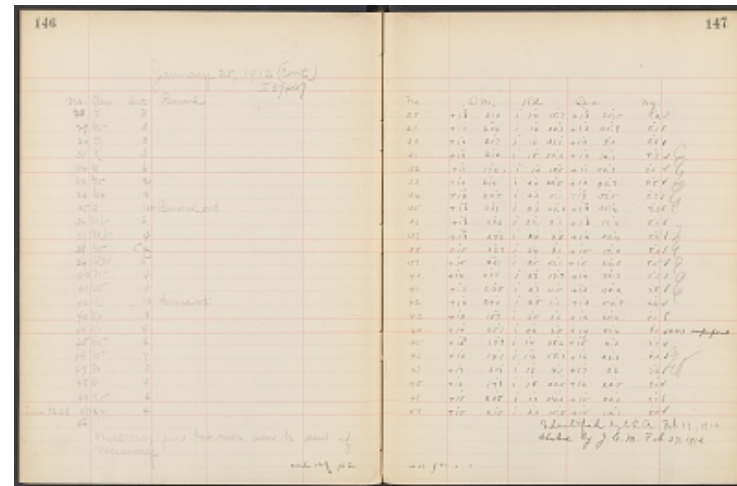
147

Cards Made Out

[[5 column table]]

No. | DM | RA | Dec | Mg.

28	+1	<del>[[/strickethrough]]</del> 3 <del>[[/strickethrough]]</del>	4 210	1 14 15.7	+1
<del>[[/strickethrough]]</del> 3 <del>[[/strickethrough]]</del> 4 25.5   8.2					
29	+13	204	1 14 32.7	+13 35.9	8.1
30	+13	207	1 16 37.7	+13 9.0	8.8
31	+13	212	1 18 50.6	+13 12.1	8.7
32	+11	172	1 14 18.5	+11 50.3	7.0
33	+13	216	1 20 35.5	+13 43.9	8.8



34 | +1 ~~3~~ 4 228 | 1 23 5.1 | +1  
~~3~~ 4 51.5 | 8.7  
 35 | +1 ~~3~~ 4 231 | 1 23 44.0 | +1  
~~3~~ 4 35.4 | 4.0  
 36 | +1 ~~3~~ 4 226 | 1 23 3.1 | +1  
~~3~~ 4 35.4 | 8.0  
 37 | +1 ~~3~~ 4 233 | 1 24 3.8 | +14 53.4 |  
 8.2  
 38 | +15 227 | 1 24 9.1 | +15 19.3 | 8.0  
 39 | +15 231 | 1 25 51.1 | +15 24.8 | 8.5  
 40 | +14 238 | 1 27 17.9 | +14 32.3 | 8.5  
 41 | +13 238 | 1 27 11.5 | +13 38.2 | 7.8  
 42 | +13 240 | 1 28 1.1 | +13 54.9 | 6.6  
 43 | +12 189 | 1 25 3.6 | +12 25.4 | 8.0  
 44 | +14 251 | 1 32 7.5 | +14 31.4 | 9.0 253 superposed  
 45 | +1 ~~5~~ 6 139 | 1 14 38.6 | +1  
~~5~~ 6 4.3 | 7.7  
 46 | +16 141 | 1 14 58.7 | +16 26.6 | 8.0  
 47 | +17 200 | 1 16 4.1 | +17 3.2 | 7.2  
 48 | +16 149 | 1 18 30.5 | +16 22.5 | 9.0  
 49 | +15 208 | 1 17 34.6 | +15 30.0 | 7.7  
 50 | +15 215 | 1 20 15.8 | +15 14.1 | 8.5

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

Project PHaEDRA- Annie Jump Cannon 36  
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148

January 25, 1912

June 12.42

I 16948

[[4 column table]]

No. | Class | Int. | Remark |

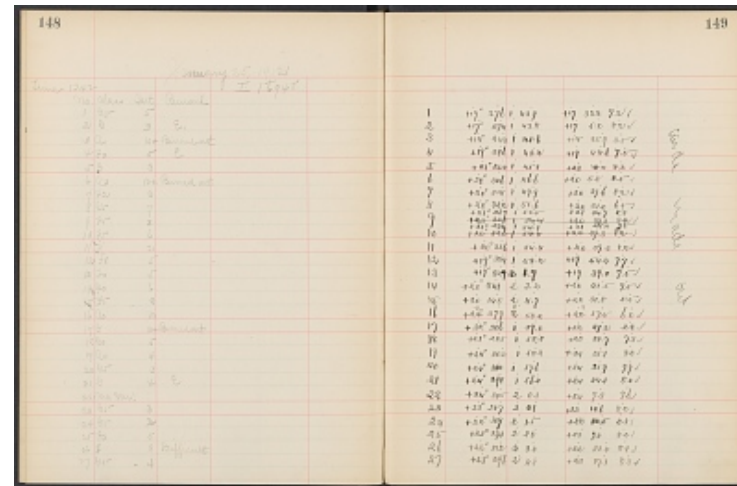
1	G5	5	
2	G	3	E.
3	A	10+	Burned out
4	F0	5	E
5	G	3	
6	A3	10+	Burned out
7	F2	3	
8	G5	7	
9	F5	3	
10	F5	6	
11	K	2	
12	F8	5	
13	F0	5	
14	G0	6	
15	F5	8	
16	A0	10	
17	G	10+	Burned out
18	G0	5	
19	A0	4	
20	G5	3	
21	G	4	E
22	Ma var.	?	
23	G5	3	
24	G5	3	
25	F0	5	
26	F	3	Difficult
27	G5	4	

149

Cards Made out

[[5 column table]]

1	+17° 276	1 43.9	+17 33.8	7.2
2	+17° 274	1 43.8	+17 5.0	8.2
3	+18° 243	1 45.6	+18 35.9	3.5
4	+19° 296	1 43.2	+19 48.6	7.5
5	+21° 250	1 45.1	+21 18.0	8.3
6	+20° 306	1 46.6	+20 5.8	2.5
7	+20° 314	1 49.9	+20 39.6	8.2
8	+20° 322	1 51.6	+20 21.0	6.5
9	+21° 267	1 53.5	+21 54.7	8.3
[[+20° 326  1 54.4  +20 39.3  8.2 /strikethrough]]				



10	+21 279	1 54.1	+21 25.0	7.3
	[[+20° 326]	1 54.4]	+20 39.3]	8.2/ <del>/strikethrough]]</del>
11	+20° 326	1 54.4	+20 39.3	8.2
12	+19° 324	1 58.2	+19 54.4	7.7
13	+19° 329	2 1.7	+19 39.0	7.5
14	+20° 341	2 3.2	+20 41.5	7.5
15	+20° 348	2 4.7	+20 31.8	5.5
16	+20° [[0 / <del>strikethrough]]</del>	279	1 [[2 / <del>strikethrough]]</del>	58.4   +20 [[1
	/strikethrough]]	57.5	6.0	
17	+22° 306	1 59.0	+22 47.2	2.0
18	+23° 285	1 58.3	+23 38.7	7.3
19	+24° 302	1 58.1	+24 25.1	8.0
20	+24° 300	1 57.6	+24 25.9	7.9
21	+24° 298	1 56.4	+24 44.1	8.0
22	+24° 305	2 0.1	+24 7.3	7.6
23	+23° 287	2 0.1	+23 14.6	8.2
24	+22° 309	2 1.5	+22 32.5	8.3
25	+23° 293	2 2.8	+23 7.0	8.0
26	+22° 312	2 3.0	+22 32.4	8.1
27	+23° 296	2 4.1	+23 17.1	8.1

Project PHaEDRA- Annie Jump Cannon 36  
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January 25, 1912 (cont)  
I 16948

[[four column table]]

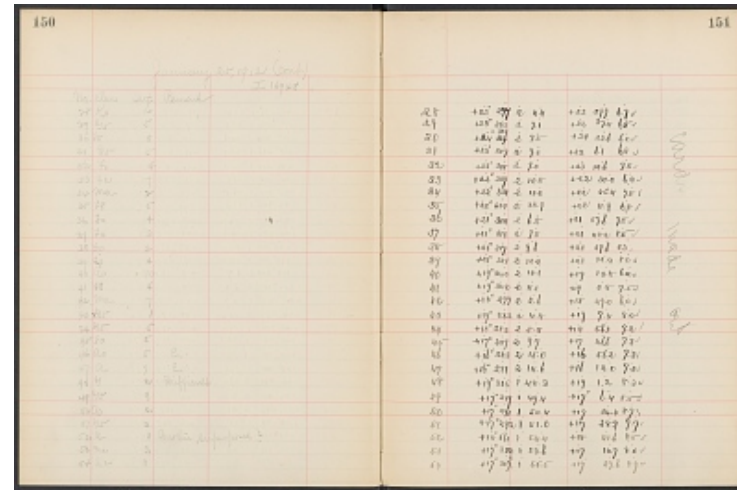
No.|Class|Int.|Remark

28|K0|6|  
29|G5|5|  
30|F5|8|  
31|G5|5|  
32|F0|4|  
33|F2|7|  
34|MA|2|  
35|F8|5|  
36|F0|4|  
37|F0|3|  
38|F0|2|  
39|F0|4|  
40|A0|10|  
41|F8|4|  
42|MA|7|  
43|G5|1|  
44|G5|5|  
45|F0|5|  
46|A0|5|E  
47|A|7|E  
48|G|2|Difficult  
49|G5|8|  
50|A0|2|  
51|G5|3|  
52|A|3|Another superposed  
53|Ma|2|  
54|A2|3|

151

[[5 column table]]

28|+23° 297|2 4.4|+23 29.9 |6.7|[check]]  
29|+23° 303|2 7.1|+23 37.4 |6.5|[check]]  
30|+24° ~~319~~|2 7.5|+24 22.6 |6.0|[check]]  
31|+23° 307|2 9.0|+23 6.1 |6.8 |[check]]  
32|+23° 308|2 9.0|+23 12.6 |7.8 |[check]]  
33|+22° 329|2 10.8|+22 30.0 |6.0 |[check]]  
34|+22° 331|2 13.0|+22 45.4 |8.8|[check]]  
35|+22° 334|2 13.9|+22 11.9 |6.8 |[check]]  
36|+21° 304|2 6.8|+21 57.6 |7.8 |[check]]  
37|+21° 310|2 7.8|+21 48.2 |8.5 |[check]]  
38|+21° 317|2 9.6|+21 59.6 |8.8 |[check]]  
39|+21° 321|2 10.4|+21 12.4 |8.0 |[check]]  
40|+19° 340|2 10.1|+19 13.8 |6.0 |[check]]



41|+19° 342|2 11.1|+19 0.8 |7.5 [[check]]  
 42|+18° 277|2 2.6|+18 49.0 |6.0 [[check]]  
 43|+19° 332|2 4.8|+19 7.4 |8.0 [[check]]  
 44|+18° 283|2 15.0|+18 56.1 |7.2 [[check]]  
 45|+17° 339|2 9.7|+17 46.6 |7.3 [[check]]  
 46|+16° 283|2 15.0|+16 56.2 |7.3 [[check]]  
 47|+16° 281|2 14.6|+16 12.0 |7.0 [[check]]  
 48|+19° 305|1 48.3|+19 1.2 |8.3 [[check]]  
 49|+17° 289|1 49.4|+17 6.4 |5.5 [[check]]  
 50|+17° 291|1 50.4|+17 34.4 |8.7 [[check]]  
 51|+17° 292|1 51.0|+17 38.9 |7.7 [[check]]  
 52|+18° 561|1 54.4|+18 41.6 |8.5 [[check]]  
 53|+17° 302|1 53.6|+17 14.7 |8.0 [[check]]  
 54|+17° 30[[strikethrough]]7[[/strikethrough]]6|1 55.5|+17 37.6 |8.9  
 [[check]]  
 52|+18° 561 | 1 54.4 | +18 41.6 | 8.5  
 53 | +17° 302 | 1 53.6 | +17 14.7 | 8.0  
 54 | +17° 306 | 1 55.5 | +17 37.6 | 8.9

Project PHaEDRA- Annie Jump Cannon 36  
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January 25, 1912 (cont.)

I 16948

[[4 column table]]

No. | Class | Int. | Remark

55|K5|5| |  
56|A|2| |  
57|F5|2| |  
58|A3|6| |  
59|F5|~~7~~ | ~~7~~ | ~~6~~ | |

Time 12.54

~~60~~ | ~~60~~ |

60|F0|2| |

153

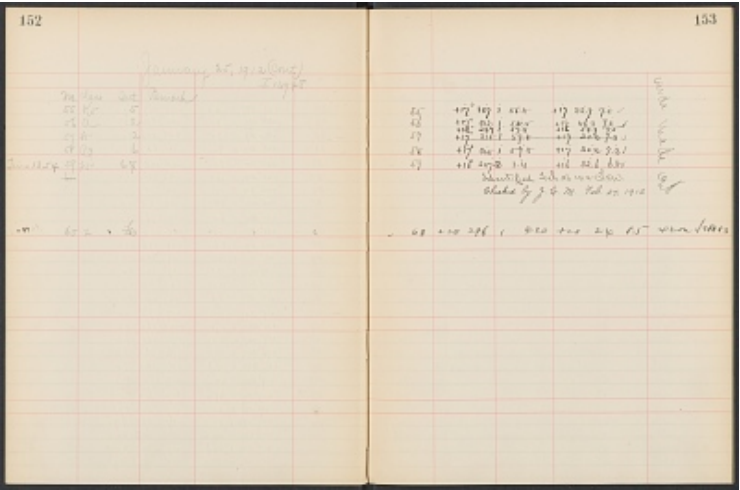
[[right margin]]  
Cards Made Out  
[[/right margin]]

[[5 column table]]

55|+17° 307|1 55.8|+17 32.9|7.0  
56|+17° 312|1 58.5|+17 46.3|9.0  
57|~~[[+17° 315|1 59.8|+17 20.2|7.3]]~~  
^|+16° 237|1 57.8|+16 56.9|8.5|  
58|+17° 315|1 59.8|+17 20.2|7.3  
59|+16° 247|2 1.4|+16 32.6|6.8

Identified Feb. 26 1912 L.D.W.  
Checked by J.C.M. Feb. 27, 1912

60|+20° 296|1 43.0|+20 24|8.5 42 on I 38883



156

January 29, 1912 (cont.)

I 37476

[[4 column table]]

No. | Class | Int. | Remark |

28 | G | 3 | |  
29 | G5 | 3 | |  
30 | G5 | 1 | |  
31 | K0 | 4 | |  
32 | G0 | 5 | E |  
33 | G | 3 | E |  
34 | A3 | 6 | |  
35 | B9 | 5 | E |  
36 | K0 | 2 | |

[[classified on I 3694 short disp]]

37 | K0 | ~~Ma~~ | 3 | ~~2~~ |

37a | K5 | 2 | |

38 | K2 | 2 | |

39 | F8 | 2 | Difficult |

40 | F0 | 3 | |

41 | G | 2 | |

42 | G | 3 | |

43 | K5 | 3 | |

44 | F5 | 5 | |

45 | A0 | 4 | |

46 | G5 | 6 | |

47 | G5 | 2 | |

48 | K2 | 3 | |

49 | G | 2 | E |

June 10.30.50 | G | 3 | E |

~~[[51,52,53,54 /strikethrough]]~~

51 | K2 | 2 | |

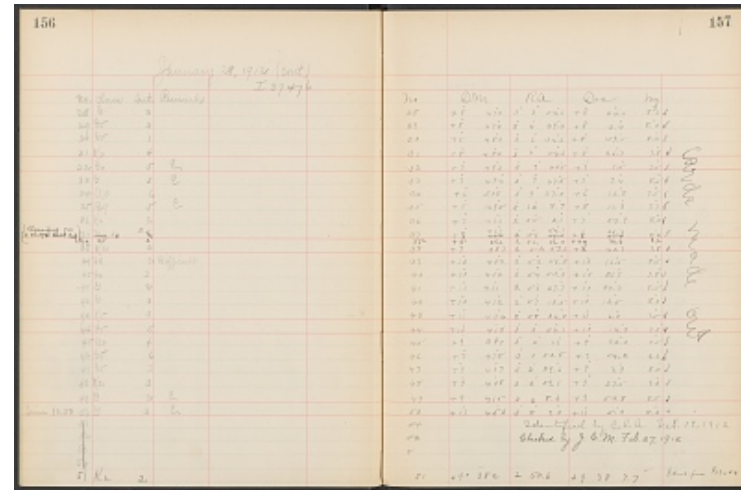
157

Cards Made Out

[[5 column table]]

No. | DM | RA | Dec | Mg.

28 | +8 472 | 3 3 54.6 | +8 24.6 | 8.3 |  
29 | +8 474 | 3 4 49.4 | +8 3.4 | 8.0 |  
30 | +8 480 | 3 6 34.6 | +8 39.5 | 8.3 |  
31 | +8 482 | 3 6 54.6 | +8 26.7 | 7.8 |  
32 | +7 493 | 3 9 40.5 | +7 7.5 | 7.5 |  
33 | +7 494 | 3 9 47.5 | +7 9.4 | 8.3 |  
34 | +6 508 | 3 9 27.0 | +6 16.8 | 7.5 |  
35 | +8 495 | 3 12 8.9 | +8 11.3 | 7.7 |  
36 | +7 466 | 2 55 2.1 | +7 53.9 | 8.3 |  
37 | +8 461 | ~~[[462 /strikethrough]]~~ | 2 56 54.1 | ~~[[56.0 /strikethrough]]~~ | +8





26.3 ~~[[31.8 /strikethrough]]~~ 8.2 |  
 37a | +8 462 | 2 56 56.0 | +8 31.8 8.2 |  
 38 | +9 387 | 2 52 59.6 | +9 ~~[[8 /strikethrough]]~~ 40.7 | 7.8 |  
 39 | +10 402 | 2 52 56.8 | +10 16.5 | 8.5 |  
 40 | +10 404 | 2 54 53.0 | +10 26.7 | 7.8 |  
 41 | +10 411 | 2 56 27.7 | +10 34.3 | 8.5 |  
 42 | +10 412 | 2 57 12.5 | +10 13.5 | 8.0 |  
 43 | +11 434 | 2 58 24.0 | +11 6.0 | 7.5 |  
 44 | +10 418 | 3 0 34.1 | +10 6.0 | 7.5 |  
 45 | +9 397 | 3 0 1.1 | +9 22.3 | 7.5 |  
 46 | +7 478 | 3 0 53.8 | +7 54.2 | 6.6 |  
 47 | +9 407 | 3 2 29.6 | +9 7.9 | 8.3 |  
 48 | +9 408 | 3 2 59.1 | +9 27.5 | 8.5 |  
 49 | +9 415 | 3 6 8.6 | +9 53.8 | 8.5 |  
 50 | +11 456 | 3 8 7.0 | +11 5.0 | 8.0 |  
~~[[51,52,5 /strikethrough]]~~

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

51 | +9 382 | 2 50.6 | +9 38 | 7.7 |

I ~~[[?]]~~ | 37284

Project PHaEDRA- Annie Jump Cannon 36  
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January 29, 1912

Time 10.35 | | | 137402 |  
[[4 column table]]

No. | Class | Int. | Remark

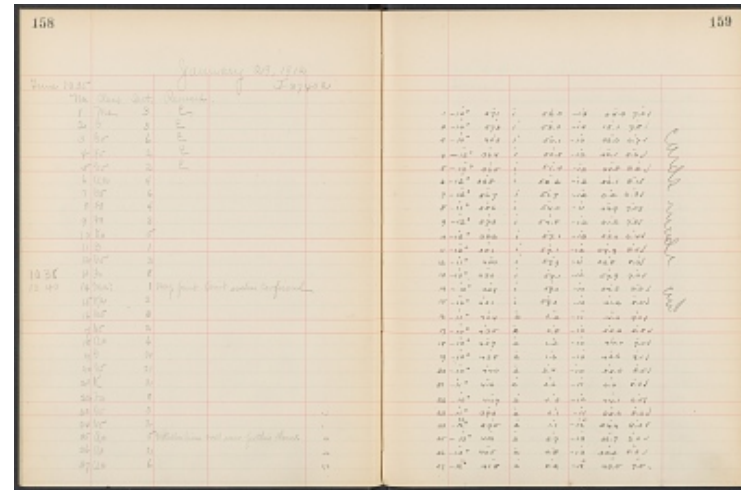
1 | Ma | 3 | E  
2 | G | 3 | E  
3 | G5 | 6 | E  
4 | F5 | 2 | E  
5 | G5 | 2 | E  
6 | A2 | 4 |  
7 | G5 | 6 |  
8 | F8 | 4 |  
9 | F8 | 3 |  
10 | K0 | 5 |  
11 | G | 1 |  
12 | G5 | 2 |  
13 | F0 | 8 |  
10.38

10.40  
14 | Ma2 ? | 1 | very faint. Omit unless confirmed  
15 | K2 | 2 |  
16 | G5 | 3 |  
17 | G5 | 2 |  
18 | A3 | 6 |  
19 | G | 2 |  
20 | G5 | 2 |  
21 | K | 2 |  
22 | F2 | 8 |  
23 | G5 | 3 |  
24 | G5 | 2 | ]  
25 | A0 | 5 | Metallic Lines well seen for this class |  
26 | A3 | 2 |  
27 | A0 | 6 |

159

Cards made out  
[[5 column table]]

1	- 14°	371	1	52.5	- 14	34.3	7.0
2	- 14°	373	1	53.0	- 14	15.1	7.8
3	- 10°	403	1	50.1	- 10	56.0	6.7
4	- 12°	364	1	50.8	- 12	40.1	8.6
5	- 12°	365	1	51.4	- 12	44.8	8.2
6	- 12°	368	1	52.2	- 12	36.1	8.1
7	- 12°	367	1	51.7	- 12	0.2	6.3
8	- 11°	386	1	54.0	- 11	44.9	7.5
9	- 12°	373	1	54.8	- 12	31.2	7.8
10	- 12°	382	1	57.1	- 12	33.0	6.4
11	- 12°	381	1	57.1	- 12	59.9	8.5



12 | - 11° 400 | 1 57.9 | - 11 32.8 | 8.0 |  
 13 | - 10° 430 | 1 59.1 | - 10 57.9 | 7.0 |  
 14 | - 10° 429 | 1 59.0 | - 10 54.3 | 8.8 |  
 15 | - 10° 431 | 1 59.3 | - 10 41.2 | 8.5 |  
 16 | - 11° 404 | 2 0.2 | - 11 14.4 | 9.0 |  
 17 | - 10° 435 | 2 0.8 | - 10 33.2 | 8.8 |  
 18 | - 10° 437 | 2 1.2 | - 10 44.0 | 7.0 |  
 19 | - 10° 438 | 2 1.6 | - 10 46.6 | 9.1 |  
 20 | - 10° 440 | 2 2.4 | - 10 33.5 | 8.5 |  
 21 | - 11° 416 | 2 2.6 | - 11 6.4 | 8.4 |  
 22 | - 10° 447 | 2 4.3 | - 10 44.1 | 6.5 |  
 23 | - 11° 393 | 2 0.1 | - 11 22.6 | 8.2 |  
 24 | - 1 1°~~[[strikethrough]]~~ 2° 395 | 2 1.1 | - 1~~[[strikethrough]]~~ 2 34.4  
 | 8.3 |  
 25 | - 13° 400 | 2 3.7 | - 13 36.7 | 7.0 |  
 26 | - 13° 405 | 2 4.8 | - 13 35.2 | 8.3 |  
 27 | - 1 1°~~[[strikethrough]]~~ 2° 418 | 2 | 8.2 | - 1 1°~~[[strikethrough]]~~ 2° 43.5  
 | 7.5 |

Project PHaEDRA- Annie Jump Cannon 36  
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January 29, 1912(cont)

1374~~76~~02

[[4 column table]]

No. | Class | Int. | Remark

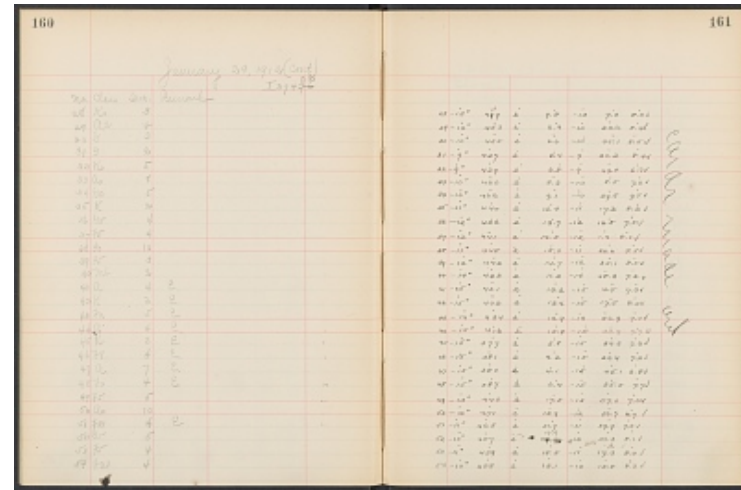
28	K0	3	
29	A2	4	
30	G	3	
31	G	2	
32	K0	5	
33	A0	8	
34	G0	5	
35	K	2	
36	G5	4	
37	F5	4	
38	F0	10	
39	F5	3	
40	Mb	2	
41	A	4	E
42	K	2	E
43	F0	5	E
44	A	4	E
45	K	3	E
46	F8	4	E
47	A	7	E
48	F0	4	E
49	F5	5	
50	A0	10	
51	72	4	E
52	G5	5	
53	F5	4	
54	F2	4	

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Cards Made Out

[[5 column table]]

28	-13° 4	<del>0</del>	<del>19</del>	2 9.8	-13 7.0	8.0	
29	-10° 453	2 6.4	-10 25.6	8.3			
30	-10° 455	2 6.6	-10 45.1	8.5			
31	-10° 427	2 6.4	-9 30.2	8.4			
32	-9° 429	2 6.8	-9 44.4	6.7			
33	-10° 460	2 8.3	-10 8.5	7.0			
34	-10° 462	2 9.1	-10 29.5	7.5			
35	-11° 440	2 12.4	-11 17.2	8.2			
36	-12° 436	2 13.7	-12 16.5	7.5			
37	-12° 441	2 14.3	-12 1.4	8.1			
38	-11° 448	2 15.0	-11 26.6	5.5			
39	-12° 442	2 14.7	-12 35.1	8.5			
40	-14° 423	2 11.2	-14 48.3	7.2			
41	-15° 401	2 13.2	-15 4.5	7.3			



42	-15° 402	2 13.4	-15 17.5	8.0
43	-14° 434	2 14.9	-14 56.9	7.0
44	-15° 416	2 15.8	-15 33.9	7.7
45	-15° 377	2 2.8	-15 34.3	7.3
46	-15° 381	2 4.2	-15 22.4	7.2
47	-15° 380	2 4.1	-15 45.1	6.8
48	-15° 387	2 6.4	-15 35.5	7.7
49	-13° 440	2 17.5	-13 57.0	7.0
50	-12° 451	2 18.9	12 56.7	4.7
51	-11° 468	2 21.7	-11 59.9	7.0
52	-10° 487	2 <del>14.9</del>	<del>17.9</del>	-10
51.3	8.1			
53	-11° 459	2 18.8	-11 17.3	8.0
54	-10° 488	2 18.1	-10 15.8	8.3

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January 29 1912 (cont)

I 37402 ~~[[02 /strikethrough]]~~

[[4 column table]]

No. | Class | Int. | Remark |

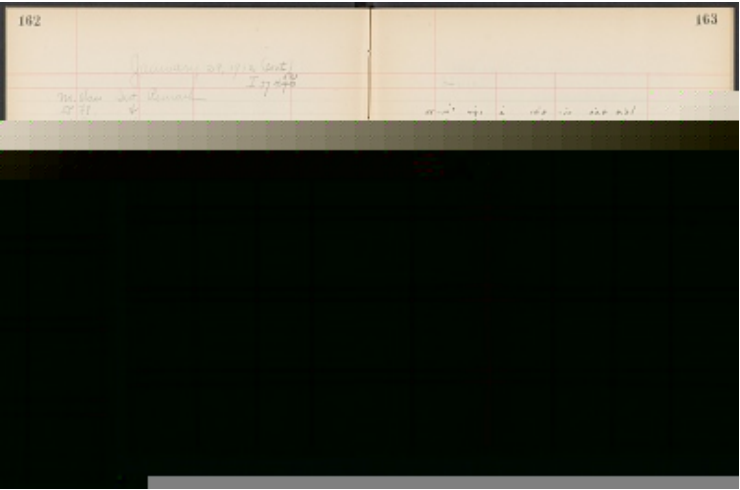
55	F8	4	
56	A0	4	
57	G5	3	
58	F5	3	
59	A0	4	
60	F8	2	E
61	G5	4	
62	K	1	
63	A2	5	
64	Ma	5	
65	K0	2	
66	A3	4	
67	Mb	8	
68	G5	5	
69	G0	2	
70	G5	2	
71	K	2	
72	F8	2	
73	G5	2	
74	G5	5	
75	G5	2	
76	G5	1	
77	G5	6	
78	k0	3	
79	G5	2	
80	G5	2	
81	G5	2	

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Cards Made Out

[[5 column table]]

55	-10° 491	2 18.8	-10 33.8	8.3	
56	-9° 459	2 18.7	-9 53.2	8.6	
57	-9° 461	2 18.8	-9 54.4	8.0	
58	-10° 495	2 20.6	-10 27.2	8.3	
59	-10° 497	2 21.5	-10 22.5	8.5	
60	-10° 498	2 21.6	-10 14.9	8.8	
61	-8° 346	1 50.0	-8 31.6	7.5	
62	-8° 349	1 50.3	-8 14.4	8.2	
63	-7° 330	1 50.3	-7 31.9	7.7	
64	-7° 334	1 51.2	-7 46.8	7.0	
65	-8° 354	1 51.3	-8 19.5	8.2	
66	-9° 373	1 52.0	-9 4.6	8.5	
67	-9° 380	1 53.3	-9 13.7	5.8	



68	-9° 382	1 53.6	-9 10.6	7.3	
69	-10° 412	1 52.0	-10 53.3	8.5	
70	-10° 413	1 52.2	-10 17.0	8.1	
71	-9° 372	1 51.9	-9 41.5	8.5	
72	-9° 378	1 52.7	-9 50.7	8.9	
73	-10° 421	1 54.7	-10 27.4	8.8	
74	-10° 424	1 56.4	-10 9.6	7.5	
75	-9° 399	1 <del>[[2 /strikethrough]]</del>	58.3	-9 30.4	8.7
76	-9° 401	1 59.1	-9 53.5	8.5	
77	-9° 403	1 59.9	-9 17.9	6.7	
78	-9° 414	2 3.1	-9 25.8	8.0	
79	-9° 419	2 4.6	-9 36.9	8.7	
80	-8° 406	2 6.7	-8 38.3	8.5	
81	-8° 411	2 7.8	-8 14.7	8.3	

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January 29, 1912 (Cont)

I 374 ~~[[[strikethrough]]]~~ 76 ~~[[[strikethrough]]]~~ 02

[[4 column table]]

No. | Class | Int. | Remark |

82 | F5 | 2 | |

83 | F2 | 2 | |

84 | A | 5 | A portion of shorter lambda H gamma superposed on 85 |

85 | G5 | 8 | |

86 | G | 3 | |

87 | F5 | 4 | |

88 | G5 | 3 | |

89 | G5 | 3 | |

90 | G5 | 2 | |

91 | F0 | 4 | |

92 | G | 3 | |

93 | G | 2 | |

94 | F5 | 4 | |

95 | F0 | 8 | |

96 | G | 2 | |

97 | G5 | 5 | |

98 | F0 | 3 | |

99 | Ma | 2 | |

100 | G5 | 7 | |

101 | F0 | 3 | |

164				165			
January 29, 1912 (Cont)							
No.	Class	Int.	Remark	No.	Class	Int.	Remark
82	F5	2		90	G5	2	
83	F2	2		91	F0	4	
84	A	5	A portion of shorter lambda H gamma superposed on 85	92	G	3	
85	G5	8		93	G	2	
86	G	3		94	F5	4	
87	F5	4		95	F0	8	
88	G5	3		96	G	2	
89	G5	3		97	G5	5	
90	G5	2		98	F0	3	
91	F0	4		99	Ma	2	
92	G	3		100	G5	7	
93	G	2		101	F0	3	
94	F5	4					
95	F0	8					
96	G	2					
97	G5	5					
98	F0	3					
99	Ma	2					
100	G5	7					
101	F0	3					



102| F2 | 6 | |

103| G | 2 | Difficult |

104| G | 3 | |

105| G5 | 4 | |

106| G0 | 4 | |

Time 11.05

165

[[5 column table]]

82 |-7° 389|2 8.2|-7 47.8 |8.5 [[symbol-check mark]]|

83 |-7° 387|2 7.7|-7 19.7 |8.2 [[symbol-check mark]]|

84 |-7° 392|2 9.7|-7 15.2 |7.5 [[symbol-check mark]]|

85 |-7° 39 3 ~~2~~ ~~2 9.8~~  
~~[[symbol-check mark]]~~.7~~[[symbol-check mark]]~~-7 ~~[[symbol-check mark]]~~ 1 ~~[[symbol-check mark]]~~  
5.2 ~~[[symbol-check mark]]~~ 7 ~~[[symbol-check mark]]~~ 5.5 [[symbol-check mark]]|

86 |-7° 397|2 11.2|-7 17.0 |8.5 [[symbol-check mark]]|

87 |-8° 422|2 11.7|-8 7.7 |7.5 [[symbol-check mark]]|

88 |-9° 440|2 11.3|-9 1.7 |7.5 [[symbol-check mark]]|

89 |-8° 428|2 14.5|-8 12.3 |7.3 [[symbol-check mark]]|

90 |-10° 479|2 14.7|-10 3.3 |8.5 [[symbol-check mark]]|

91 |-9 ° 455|2 17.1|-9 16.3 |8.3 [[symbol-check mark]]|

92 |-9° 456|2 17.7|-9 39.9 |8.4 [[symbol-check mark]]|

93 |-8° 435|2 16.1|-8 28.3 |8.3 [[symbol-check mark]]|

94 |-8° 440|2 17.0|-8 3.6 |7.9 [[symbol-check mark]]|

95 |-6° 470|2 16.1|-6 50.6 |7.01|

96 |-7° 419|2 17.0|-7 26.7 |8.7 [[symbol-check mark]]|

97 |-7° 432|2 20.4|-7 34.6 |6.8 [[symbol-check mark]]

98 |-7° 361|2 0.0|-7 54.6 |6.8 [[symbol-check mark]]

99 |-7° 365|2 1.2|-7 9.2 |8.5 [[symbol-check mark]]

100|-7° 366|2 1.3|-7 21.8 |6.8 [[symbol-check mark]]

101|-6° 421|2 4.5|-6 49.0 |7.8 [[symbol-check mark]]

102|-5° 411|2 7.1|-5 56.8 |7.7 [[symbol-check mark]]

103|-7° 381|2 6.7|-7 3.3 |8.5 [[symbol-check mark]]

104|- ~~5~~ ~~6°~~ 434|2 7.6|-6 47.0 |8.5  
[[symbol-check mark]]

105|-6° 453|2 12.7|-6 59.1 |7.5 [[symbol-check mark]]

106|-7° 407|2 13.3|-7 2.5 |8.0 [[symbol-check mark]]

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

[[right margin]]  
Cards made out  
[[\right margin]]

Project PHaEDRA- Annie Jump Cannon 36  
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January ~~29~~ ~~30~~, 1912  
~~cont.~~

Time 12.18 B 12238 Short disp.

[[4 column table]]

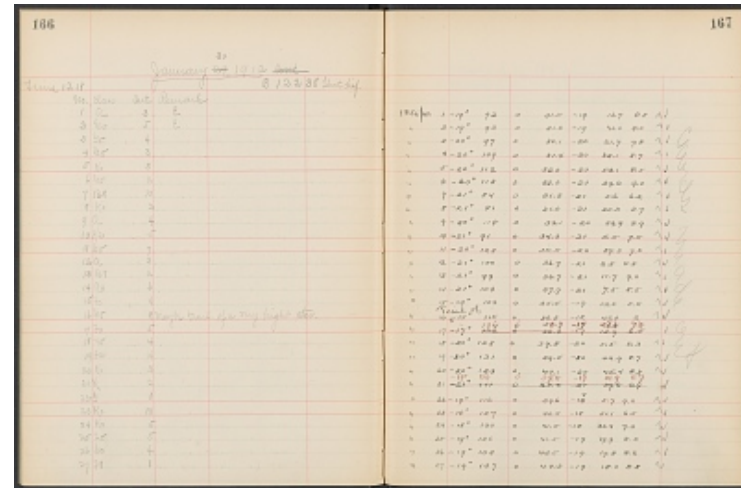
No.	Class	Int.	Remark
1	A	3	E
2	G0	5	E
3	G5	4	
4	G5	3	
5	K0	3	
6	G5	2	
7	B8	10	
8	K0	2	
9	A	4	
10	K2	5	
11	G5	7	
12	A	3	
13	B8	2	
14	A3	6	
15	F0	4	
16	G5	8	Maybe trail of a bright star
17	F0	5	
18	F5	4	
19	F2	4	
20	K0	3	
21	K	2	
22	G	1	
23	K0	10	
24	K0	5	
25	F5	5	
26	G0	4	
27	F8	1	

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Cards Made Out

[[5 column table]]

1855 pos. 1	-19° 92	0 31.5	-19 16.7	8.8
1855 pos. 2	-19° 93	0 31.6	-19 40.0	8.0
1855 pos. 3	-20° 97	0 30.1	-20 21.7	7.8
1855 pos. 4	-20° 109	0 31.4	-20 32.1	8.7
1855 pos. 5	-20° 112	0 32.0	-20 53.1	8.5
1855 pos. 6	-20° 113	0 32.0	-20 39.6	9.0
1855 pos. 7	-21° 84	0 31.3	-215.6	6.2
1855 pos. 8	-21° 81	0 31.0	-21 20.3	8.7
1855 pos. 9	-20° 118	0 34.1	-20 39.9	8.9
1855 pos. 10	-21° 91	0 34.3	-21 5.5	7.5
1855 pos. 11	-20° 123	0 35.5	-20 59.3	7.0
1855 pos. 12	-21° 100	0 36.7	-21 2.8	8.8
1855 pos. 13	-21° 99	0 36.7	-21 11.7	9.0
1855 pos. 14	-21° 104	0 37.7	-21 7.5	8.5
1855 pos. 15	-19° 104	0 35.5	-19 52.0	8.5
1855 pos. 16	Trail Of -18° 115	0 36.3	-18 47.0	2.



1855 pos. 17 | -17° ~~132~~ | 0 38.4 | -17 12.9 | 6.5  
~~134~~ | 0 38.7 | -17 26.4 | 7.8  
 1855 pos. 18 | -20° 128 | 0 37.8 | -20 5.5 | 8.3  
 1855 pos. 19 | -20° 131 | 0 39.5 | -20 44.9 | 8.7  
 1855 pos. 20 | -20° 133 | 0 40.1 | -20 45.4 | 8.3  
 1855 pos. 21 | ~~21° 111~~ | 0 40.0 | -21 39.6 | 8.9  
~~118~~ | 0 39.8 | -19 41.9 | 8.7  
 1855 pos. 22 | -19° 116 | 0 39.6 | -1 ~~8~~ ~~9~~  
 5.7 | 9.0  
 1855 pos. 23 | -18° 127 | 0 40.5 | -18 51.1 | 6.5  
 1855 pos. 24 | -18° 130 | 0 41.5 | -18 20.4 | 7.3  
 1855 pos. 25 | -19° 126 | 0 41.5 | -19 19.9 | 8.3  
 1855 pos. 26 | -19° 133 | 0 43.5 | -19 17.8 | 8.6  
 1855 pos. 27 | -19° 137 | 0 44.3 | -19 18.0 | 8.8

Project PHaEDRA- Annie Jump Cannon 36  
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January ~~2~~ 30, 1912 (cont.)  
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[[4 column table]]

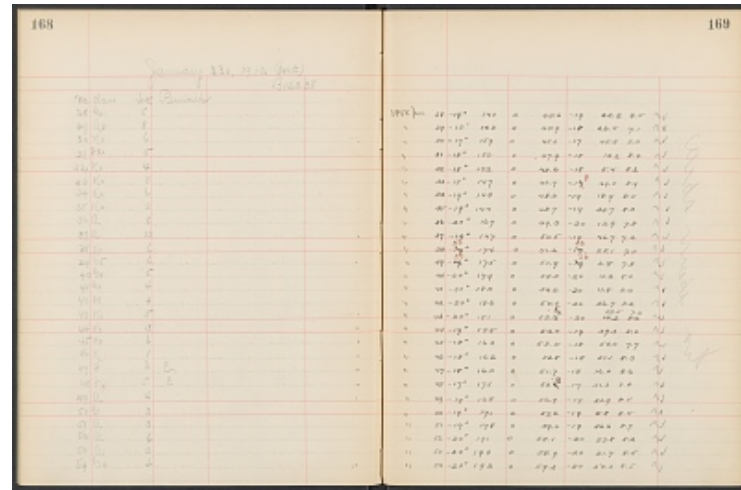
No.	Class	Int.	Remark
28	G0	5	
29	A3	8	
30	K0	6	
31	F2	5	
32	K0	4	
33	K0	3	
34	K0	6	
35	K0	3	
36	A	8	
37	A	10	
38	K0	6	
39	G5	6	
40	G0	5	
41	G0	4	
42	F8	4	
43	K0	5	
44	K0	3	
45	F0	6	
46	K	1	
47	F	3	E
48	F	5	E
49	A	4	
50	G	3	
51	A	3	
52	A	6	
53	A	3	
54	G0	4	

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Cards Made Out

[[5 column table]]

1855 pos. 28	-19° 140	0 45.6	-19 22.2	8.5	
1855 pos. 29	-18° 143	0 45.9	-18 26.5	7.1	
1855 pos. 30	-17° 159	0 48.0	-17 45.3	8.0	
1855 pos. 31	-18° 150	0 47.9	-18 13.2	8.4	
1855 pos. 32	-18° 152	0 48.6	-18 5.4	8.2	
1855 pos. 33	-18° 147	0 46.9	-1 <del>[[/del]]</del>	<del>[[/del]]</del>	8
49.0	8.9				
1855 pos. 34	-19° 143	0 48.6	-19 18.9	8.0	
1855 pos. 35	-19° 144	0 48.7	-19 32.7	8.3	
1855 pos. 36	-20° 167	0 49.3	-20 13.9	7.8	
1855 pos. 37	-19° 147	0 50.5	-19 46.7	7.2	
1855 pos. 38	<del>[[/del]]</del>	-19 <del>[[/del]]</del>	-20° 174	0 51.6	-
<del>[[/del]]</del>	19 <del>[[/del]]</del>	20 25.1	7.0		



1855 pos. 39 | - ~~19~~ ~~20~~ 175 | 0 51.9 | -  
~~19~~ ~~20~~ 6.8 | 7.8 | |  
 1855 pos. 40 | -20° 179 | 0 53.3 | -20 10.2 | 8.0 | |  
 1855 pos. 41 | -20° 183 | 0 54.6 | -20 11.8 | 8.0 | |  
 1855 pos. 42 | -20° 186 | 0 55.0 | -20 26.7 | 8.2 | |  
 1855 pos. 43 | -20° 181 | 0 53. ~~3 6~~ ~~5~~ | -  
 20 ~~10.2~~ ~~8.0~~ ~~52.5~~ | 7.2 | |  
 1855 pos. 44 | -19° 155 | 0 54.0 | -19 37.3 | 8.0 | |  
 1855 pos. 45 | -18° 163 | 0 53.5 | -18 54.0 | 7.7 | |  
 1855 pos. 46 | -18° 162 | 0 52.8 | -18 51.1 | 8.3 | |  
 1855 pos. 47 | -18° 160 | 0 51.7 | -18 16.4 | 8.6 | |  
 1855 pos. 48 | -17° 175 | 0 53. ~~4~~ ~~3~~ | -17  
 51.3 | 8.4 | |  
 1855 pos. 49 | -19° 168 | 0 56.9 | -19 20.9 | 8.5 | |  
 1855 pos. 50 | -19° 171 | 0 57.6 | -19 5.8 | 8.5 | |  
 1855 pos. 51 | -19° 178 | 0 59.0 | -19 36.6 | 8.7 | |  
 1855 pos. 52 | -20° 191 | 0 58.1 | -20 37.8 | 8.2 | |  
 1855 pos. 53 | -20° 194 | 0 58.9 | -20 21.7 | 8.5 | |  
 1855 pos. 54 | -20° 196 | 0 59.2 | -20 50.0 | 8.5 | |

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January 30, 1912 (cont.)

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[[4 column table]]

No. | Class | Int. | Remark |

55	F8	2	
56	G5	2	
57	G5	5	
58	K	3	
59	K2	7	
60	F5	6	
61	F0	2	
62	G0	2	
63	K2	2	[[\strikethrough]] 3 [[\strikethrough]]
64	K0	3	
65	K0	4	
66	A	10+	Burned out
67	A5	^[[?]]	4   Focus poor
68	A3	3	
69	G	2	
70	F5	3	
71	G5	10	Burned out
72	A	10	
73	G5	7	
74	F	2	
75	K0	4	
76	G0	8	
77	K2	4	
78	F5	8	
79	G0	5	
80	K2	4	
81	G0	5	

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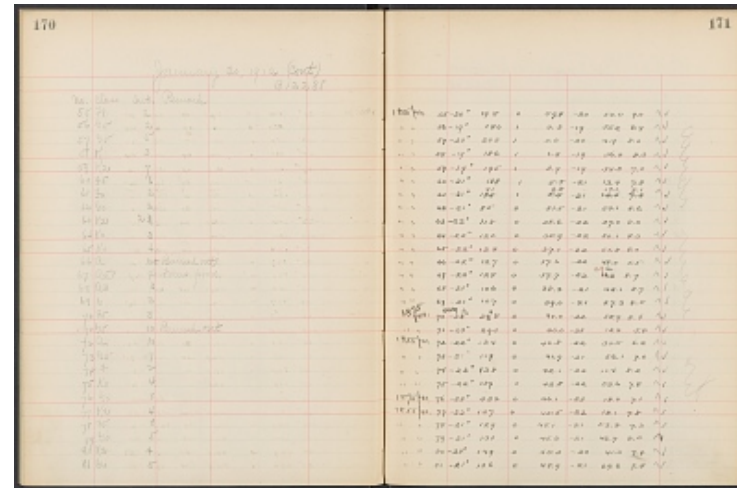
[[5 column table]]

1855 pos. 55|-20 [[symbol-degree]] 198|0 59.4|-20 50.0 9.0  
[[symbol]]|[[symbol-check mark]]|

1855 pos. 56|-19 [[symbol-degree]] 180|1 0.3|-19 55.2 8.9  
[[symbol]]|[[symbol-check mark]]|

1855 pos. 57|-20 [[symbol-degree]] 203|1 0.6|-20 4.9 8.0  
[[symbol]]|[[symbol-check mark]]|

1855 pos. 58|-19 [[symbol-degree]] 186|1 1.3|-19 56.4 8.3  
[[symbol]]|[[symbol-check mark]]|



1855 pos. 59|-19  $^{\circ}$  195|1 3.9|-19 34.3 7.0  
[[symbol]] [[symbol-check mark]]

1855 pos. 60|-21  $^{\circ}$  188|1 5.5|-21 13.4 7.3  
[[symbol]] [[symbol-check mark]]

1855 pos. 61|-21  $^{\circ}$  191 ~~88~~  
~~1 6.8~~ ~~5.5~~ ~~-21 17.1~~  
~~13.4~~ ~~8.1~~ ~~7.3~~  
~~[[symbol]] [[symbol-check mark]]~~

1855 pos. 62|-21  $^{\circ}$  85|0 31.5|-21 50.1 8.6  
[[symbol]] [[symbol-check mark]]

1855 pos. 63|-22  $^{\circ}$  118|0 35.6|-22 27.0 8.0  
[[symbol]] [[symbol-check mark]]

1855 pos. 64|-22  $^{\circ}$  120|0 35.9|-22 30.1 8.3  
[[symbol]] [[symbol-check mark]]

1855 pos. 65|-22  $^{\circ}$  124|0 37.1|-22 51.8 8.0  
[[symbol]] [[symbol-check mark]]

1855 pos. 66|-22  $^{\circ}$  127|0 37.6|-22 48.0 5.5  
[[symbol]] [[symbol-check mark]]

1855 pos. 67|-22  $^{\circ}$  128|0 37.7|-22 11.9 ~~[[symbol-check mark]]~~  
11.0 ~~[[symbol-check mark]]~~ ~~2~~ ~~8.7~~  
[[symbol]] [[symbol-check mark]]

1855 pos. 68|-21  $^{\circ}$  106|0 38.4|-21 42.1 8.7  
[[symbol]] [[symbol-check mark]]

1855 pos. 69|-21  $^{\circ}$  107|0 39.0|-21 27.3 8.5  
[[symbol]] [[symbol-check mark]]

1875 pos. 70  $^{\circ}$  ~~3~~ ~~[[symbol-check mark]]~~  
~~24~~ ~~9~~ ~~8~~ ~~0 40.0|-22 55.9 8.4~~  
[[symbol]] [[symbol-check mark]]

1875 pos. 71|-23  $^{\circ}$  293|0 40.0|-23 12.4 5.8  
[[symbol]] [[symbol-check mark]]

1855 pos. 72|-22  $^{\circ}$  134|0 40.8|-22 30.5 6.2  
[[symbol]] [[symbol-check mark]]

1855 pos. 73|-21  $^{\circ}$  293|0 41.9|-21 56.1 7.0  
[[symbol]] [[symbol-check mark]]

1855 pos. 74|-22  $^{\circ}$  138|0 42.1|-22 11.4 8.2  
[[symbol]] [[symbol-check mark]]

1855 pos. 75|-22  $^{\circ}$  139|0 42.8|-22 53.6 7.8



[[symbol]] [[symbol-check mark]]

1875 pos. 76|-23 [[symbol-degree]] 334|0 46.1|-23 18.0 7.1  
[[symbol]] [[symbol-check mark]]

1855 pos. 77|-22 [[symbol-degree]] 147|0 45.5|-22 13.1 7.8  
[[symbol]] [[symbol-check mark]]

1855 pos. 78|-21 [[symbol-degree]] 129|0 45.1|-21 53.8 7.3  
[[symbol]] [[symbol-check mark]]

1855 pos. 79|-21 [[symbol-degree]] 130|0 45.3|-21 46.7 8.0  
[[symbol]] [[symbol-check mark]]

1855 pos. 80|-20 [[symbol-degree]] 149|0 45.3|-20 41.0 7.8  
[[symbol]] [[symbol-check mark]]

1855 pos. 81|-21 [[symbol-degree]] 136|0 48.9|-21 29.6 7.8  
[[symbol]] [[symbol-check mark]]

[[right margin]]  
cards made out  
[[\right margin]]

Project PHaEDRA- Annie Jump Cannon 36  
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January 30, 1912 (Cont.)  
B 12238

[[4 column table]]

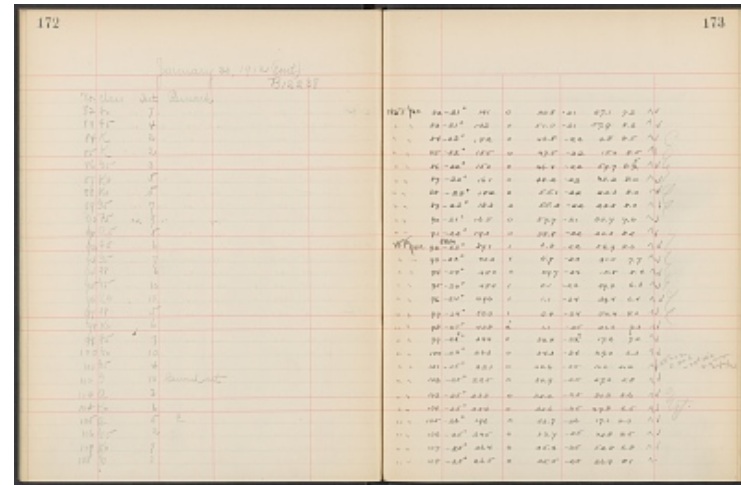
No.	Class	Int.	Remark
82	F0	7	
83	F5	4	
84	K	2	
85	K	2	
86	G5	3	
87	K0	5	
88	K0	5	
89	G5	7	
90	F5	9	
91	A5	5	
92	F5	6	
93	G5	7	
94	F8	6	
95	G5	10	
96	A2	10	
97	F8	5	
98	K0	6	
99	F5	7	
100	G0	10	
101	G5	4	
102	G	10	Burned out
103	A	3	
104	K0	6	
105	A	5	E
106	G5	2	
107	K0	7	
108	G	3	

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cards made out

[[6 column table]]

1855 pos.	82	-21°	141	0	50.8	-21	27.1	7.2
1855 pos.	83	-21°	142	0	51.0	-21	57.9	8.2
1855 pos.	84	-22°	152	0	46.8	-22	4.8	8.5
1855 pos.	85	-22°	155	0	47.5	-22	15.4	8.5
1855 pos.	86	-22°	150	0	46.4	-22	59.7	8. <del>[[strikethrough]]</del> 7
[[/strikethrough]] ^[[5]]								
1855 pos.	87	-22°	161	0	48.2	-22	43.2	8.0
1855 pos.	88	-22°	182	0	55.1	-22	23.3	8.0
1855 pos.	89	-22°	183	0	55.3	-22	23.3	8.0
1855 pos.	90	-21°	165	0	57.7	-21	30.7	7.6
1855 pos.	91	-22°	193	0	58.8	-22	20.3	8.2
1875 pos.	92	-22°	391	1	0.8	-22	56.9	8.0
1875 pos.	93	-23°	403	1	0.7	-23	31.0	7.7
1875 pos.	94	-24°	480	0	59.7	-24	15.8	8.4
1875 pos.	95	-24°	484	1	0.1	-24	39.4	6.3
1875 pos.	96	-24°	496	1	1.1	-24	39.4	6.4



1875 pos. | 97 | -24° 503 | 1 2.4 | -24 54.4 | 8.0  
 1875 pos. | 98 | -25° 438 | ~~0~~ ~~1~~ 1.1 | -25  
 31.0 | 7.3  
 1875 pos. | 99 | -2 | ~~5~~ ~~4~~ 244 | 0 32.4 | -  
 2 | ~~5~~ ~~4~~ 17.2 | 7.2  
 1875 pos. | 100 | -24° 263 | 0 34.3 | -24 29.0 | 6.3  
 1875 pos. | 101 | -25° 221 | 0 30.6 | -25 11.0 | 8.2 <sup>1</sup> -25° 222 0 30.6 -25°  
 10.0 8.3 <sup>1</sup> superposed  
 1875 pos. | 102 | -25° 225 | 0 30.9 | -25 27.4 | 5.8  
 1875 pos. | 103 | -25° 233 | 0 32.2 | -25 21.2 | 8.6  
 1875 pos. | 104 | -25° 234 | 0 32.6 | -25 47.8 | 6.5  
 1875 pos. | 105 | -26° 196 | 0 32.7 | -26 17.1 | 8.3  
 1875 pos. | 106 | -25° 245 | 0 33.7 | -25 42.8 | 8.5  
 1875 pos. | 107 | -25° 264 | 0 35.4 | -25 52.8 | 6.8  
 1875 pos. | 108 | -25° 265 | 0 35.5 | -25 26.9 | 8.1

Project PHaEDRA- Annie Jump Cannon 36  
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January 30, 1912 (cont)  
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[[4 column table]]

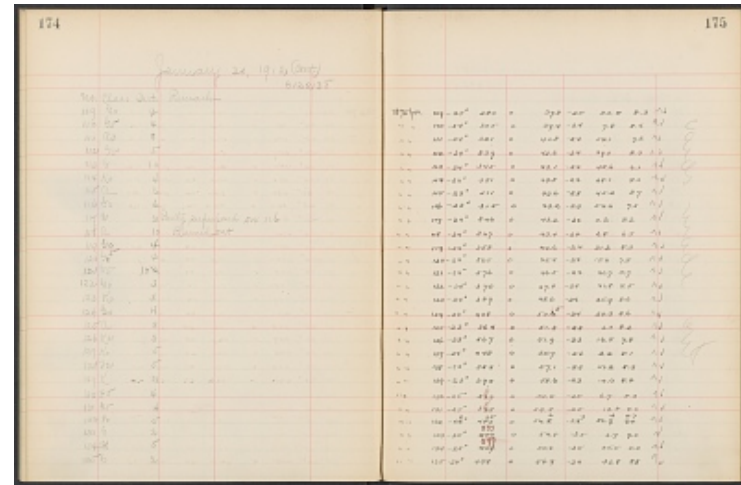
No.	Class	Int.	Remark
109	G0	4	
110	G5	4	
111	A3	8	
112	G5	5	
113	G	10	
114	K0	4	
115	A	2	
116	G0	6	
117	G	2	Partly superposed on 116
118	A	10	Burned out
119	G0	4	
120	G	0	^[[5]]4
121	G5	10	4
122	G0	3	
123	K0	3	
124	G0	4	
125	A	3	
126	K2	3	
127	K0	5	
128	F2	5	
129	K	2	
130	F5	4	
131	G5	4	
132	F0	5	
133	G	2	
134	F8	5	
135	G	2	

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cards made out

[[6 column table]]

1875 pos.	109	-25°	280	0	37.8	-25	33.5	8.3
1875 pos.	110	-24°	305	0	39.4	-24	7.8	8.4
1875 pos.	111	-24°	321	0	40.8	-24	54.1	7.6
1875 pos.	112	-24°	339	0	42.6	-24	49.0	8.3
1875 pos.	113	-24°	345	0	43.1	-24	48.6	6.1
1875 pos.	114	-24°	351	0	43.8	-24	48.1	8.0
1875 pos.	115	-23°	311	0	42.6	-23	45.2	8.7
1875 pos.	116	-23°	315	0	43.2	-23	54.6	7.3
1875 pos.	117	-24°	346	0	43.2	-24	0.2	8.2
1875 pos.	118	-24°	347	0	43.4	-24	2.8	6.5
1875 pos.	119	-24°	358	0	44.6	-24	21.2	8.3
1875 pos.	120	-24°	365	0	45.4	-24	15.6	7.8
1875 pos.	121	-24°	376	0	46.5	-24	40.7	5.7



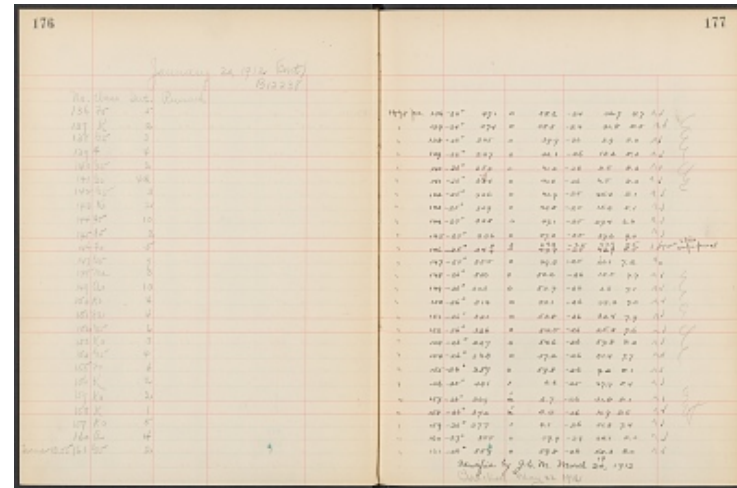
1875 pos. |122|-24° 378|0 47.4|-24 41.8|8.5  
 1875 pos. |123|-24° 389|0 48.6|-24 35.9|8.6  
 1875 pos. |124|-24° 408|0 50. ~~[[/strikethrough]]~~ 6 ~~[[/strikethrough]]~~ ^~~[[5]]~~-  
 24 20.3|8.6  
 1875 pos. |125|-23° 364|0 51.3|-23 6.0|8.2  
 1875 pos. |126|-23° 367|0 51.9|-23 16.5|7.8  
 1875 pos. |127|-24° 448|0 55.7|-24 3.2|8.1  
 1875 pos. |128|-23° 383|0 57.1|-23 51.2|8.3  
 1875 pos. |129|-23° 390|0 58.6|-23 10.0|8.4  
 1875 pos. |130|-25° 3~~[[/strikethrough]]~~ 9 ~~[[/strikethrough]]~~ ^~~[[8]]~~9|0 53.8|-  
 25 6.7|8.3  
 1875 pos. |131|-25° 3~~[[/strikethrough]]~~ 9 ~~[[/strikethrough]]~~ ^~~[[8]]~~8|0 53.8|-  
 25 13.8|8.0  
 1875 pos. |132|-2~~[[/strikethrough]]~~ 5 ~~[[/strikethrough]]~~ ^~~[[4]]~~°  
 4~~[[/strikethrough]]~~ 07 ~~[[/strikethrough]]~~ ^~~[[35]]~~0 54. ~~[[/strikethrough]]~~ 8  
~~[[/strikethrough]]~~ ^~~[[6]]~~-2~~[[/strikethrough]]~~ 5 ~~[[/strikethrough]]~~ ^~~[[4]]~~  
 56. ~~[[/strikethrough]]~~ 7 ~~[[/strikethrough]]~~ ^~~[[3]]~~~~[[/strikethrough]]~~ 9.0  
~~[[/strikethrough]]~~ ^~~[[8.7]]~~  
 1875 pos. |133|-25° ~~[[/strikethrough]]~~ 407 ~~[[/strikethrough]]~~ ^~~[[397]]~~0  
 54.8|-25 6.7|9.0  
 1875 pos. |134|-25° ~~[[/strikethrough]]~~ 409 ~~[[/strikethrough]]~~ ^~~[[399]]~~0  
 55.0|-25 25.5|8.3  
 1875 pos. |135|-24° 458|0 56.9|-24 32.8|8.8

Project PHaEDRA- Annie Jump Cannon 36  
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January 30, 1912 (Cont)

1 312238  
[[4 column table]]  
[No.][Class][Int.][Remark]  
[136][75][5] |  
137 | K | 2 | |  
138 | G5 | 3 | |  
139 | F | 4 | |  
140 | G5 | 2 | |  
141 | G0 | ~~3~~ | ~~4~~ |  
142 | G5 | 3 | |  
143 | K0 | 2 | |  
144 | F5 | 10 | |  
145 | F5 | 2 | |  
146 | F0 | 5 | |  
147 | G5 | 7 | |  
148 | Ma | 3 | |  
149 | A0 | 10 | |  
150 | K0 | 4 | |  
151 | F2 | 4 | |  
152 | G5 | 6 | |  
153 | K | 3 | |  
154 | G5 0 | 4 | |  
155 | F0 | 4 | |  
156 | K | 2 | |  
157 | K0 | 2 | |  
158 | K | 1 | |  
159 | K0 | 5 | |  
160 | A | 4 | |  
161 | G5 | 2 | |  
Time 12.55



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Cards Made Out

[[5 column table]]

1875 pos. 136 | -24° 471 | 0 58.2 | -24 56.7 | 8.7 | |  
1875 pos. 137 | -24° 474 | 0 58.8 | -24 31.8 | 8.5 | |  
1875 pos. 138 | -26° 245 | 0 39.9 | -26 3.9 | 8.0 | |  
1875 pos. 139 | -26° 247 | 0 40.1 | -26 13.2 | 8.0 | |  
1875 pos. 140 | -26° 252 | 0 41.2 | -26 3.5 | 8.4 | |  
1875 pos. 141 | -26° 2 ~~8~~ | ~~54~~ | 0 41.4 | -  
26 4.5 | 8.3 | |  
1875 pos. 142 | -25° 306 | 0 41.9 | -25 45.4 | 8.1 | |  
1875 pos. 143 | -25° 309 | 0 42.8 | -25 15.2 | 8.1 | |  
1875 pos. 144 | -25° 338 | 0 47.1 | -25 27.4 | 6.6 | |  
1875 pos. 145 | -25° 336 | 0 47.0 | -25 37.6 | 9.0 | |  
1875 pos. 146 | -25° 344<sup>^</sup>[[3]] | 0<sup>^</sup>[[0]] 47.9<sup>^</sup>[[47.9]] | -25<sup>^</sup>[[[-25]]  
42.9<sup>^</sup>[[42.9]] | 8.5<sup>^</sup>[[8.5]] | |  
1875 pos. 147 | -25° 355 | 0 49.3 | -25 20.1 | 7.2 | |

1875 pos. 148	-26° 300	0 50.2	-26 13.5	7.7	
1875 pos. 149	-26° 303	0 50.7	-26 2.6	7.1	
1875 pos. 150	-26° 314	0 52.1	-26 33.4	7.0	
1875 pos. 151	-26° 321	0 53.8	-26 32.4	7.9	
1875 pos. 152	-26° 326	0 54.5	-26 25.3	7.6	
1875 pos. 153	-26° 327	0 54.6	-26 57.8	8.2	
1875 pos. 154	-26° 343	0 57.2	-26 51.4	7.7	
1875 pos. 155	-26° 357	0 59.8	-26 9.2	8.1	
1875 pos. 156	-25° 431	1 0.6	-25 47.7	8.4	
1875 pos. 157	-26° 369	<del>2</del>	<del>1 2.7</del>	-26	
31.8	8.1				
1875 pos. 158	-26° 372	<del>2</del>	<del>1 3.0</del>	-26	
11.9	8.5				
1875 pos. 159	-26° 377	1 4.1	-26 51.3	7.4	
1875 pos. 160	-27° 355	0 59.9	-27 24.1	8.0	
1875 pos. 161	-26° 35	<del>7</del>	<del>0 59.8</del>	-	
26 58.3	8.0				

Identified by J.C.M. March ~~20~~ 19, 1912  
 Checked May 22, 1912

Project PHaEDRA- Annie Jump Cannon 36  
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15	+7°	540	3	37	10.5	+7	50.9	8.5
16	+8°	565	3	38	33.7	+8	13.1	8.5
17	+8°	567	3	39	14.2	+8	30.4	7.3
18	+9°	486	3	39	4.8	+9	4.7	7.7
19	+9°	494	3	40	38.6	+9	11.0	6.5
20	+8°	570	3	40	30.2	+8	20.0	8.3
21	+8°	571	3	40	32.5	+8	7.3	8.4
22	+8°	573	3	41	41.2	+8	2.2	8.2
23	+8°	581	3	42	56.9	+8	0.6	8.5
24	+8°	574	3	41	55.2	+8	58.4	6.8
25	+8°	575	3	42	8.6	+8	50.4	8.6
26	+9°	497	3	41	54.9	+9	26.1	7.8
27	+9°	499	3	42	14.7	+9	28.3	8.3

Project PHaEDRA- Annie Jump Cannon 36  
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180

January 30, 1912 (cont)  
I 37470

[[four column table]]

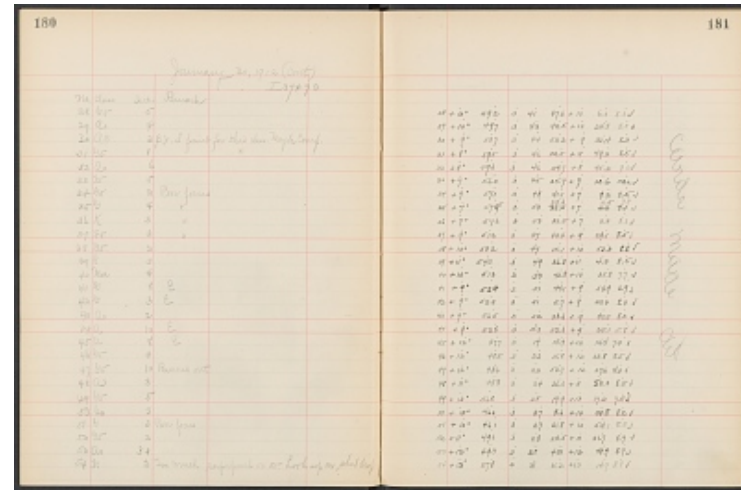
No.|Class|Int.|Remark

28|G5|5|  
29|A0|4|  
30|A3|3|beta, gamma faint for this class maybe Comp.  
31|G5|1|  
32|A0|6|  
33|F5|5|  
34|G5|2|Poor focus  
35|G|4|Poor focus  
36|K|3|Poor focus  
37|F5|3|Poor focus  
38|G5|2|  
39|G|3|  
40|MA|4|  
41|G|8|E  
42|G|3|E  
43|A0|2|  
44|A|10|E  
45|A|8|E  
46|G5|3|  
47|G5|10|Burned out  
48|A3|3|  
49|G5|5|  
50|G0|3|  
51|G|3|Poor focus  
52|G5|2|  
53|A0|3|  
54|F?|3|Too much superposed on 55. Look up on short disp

181

[[five column table]]

28|+10° 492|3 41 47.6|+10 6.0 |8.0[[check]]  
29|+10° 497|3 43 42.5|+10 24.8 |8.3[[check]]  
30|+9° 507|3 44 53.2|+9 32.4 |8.3[[check]]  
31|+8° 595|3 46 22.5|+8 49.2 |8.5[[check]]  
32|+8° 596|3 46 54.7|+8 45.2 |7.0[[check]]  
33|+7° 560|3 45 25.7|+7 20.6 |var[[check]]  
34|+7° 571|3 48 41.1|+7 9.2 |8.2[[check]]  
35|+7° 57|~~3 48 41.1~~|+7 9.2 |~~8.2~~[[check]]  
[[del>3 48 41.1]]|+7 9.2 |~~8.2~~[[check]]  
[[del>3 48 41.1]]|+7 9.2 |~~8.2~~[[check]]  
[[del>3 48 41.1]]|+7 9.2 |~~8.2~~[[check]]  
36|+7° 576|3 50 36.5|+7 3.3 |8.1[[check]]  
37|+9° 512|3 47 43.4|+9 29.1 |8.5[[check]]  
38|+10° 502|3 47 15.1|+10 52.3 |8.8[[check]]



39|+11° 543|3 49 36.8|+11 4.3 |8.5[[check]]  
 40|+10° 513|3 50 40.8|+10 35.8 |7.7[[check]]  
 41|+9° 524|3 51 44.1|+9 54.9 |6.9[[check]]  
 42|+9° 523|3 51 5.7 |+9 23.0 |8.0[[check]]  
 43|+9° 525|3 52 38.6|+9 45.5 |8.3[[check]]  
 44|+9° 528|3 53 52.6|+9 35.1 |5.8[[check]]  
 45|+12° 477|3 19 18.9|+12 14.4 |7.0[[check]]  
 46|+12° 485|3 22 15.8|+12 23.8 |8.5[[check]]  
 47|+12° 486|3 22 52.7|+12 27.6 |4.0[[check]]  
 48|+11° 488|3 24 26.6|+11 52.3 |8.5[[check]]  
 49|+13° 568|3 25 19.9|+13 17.2 |7.5[[check]]  
 50|+10° 460|3 27 8.6 |+10 33.8 |8.2[[check]]  
 51|+10° 461|3 27 21.8|+10 54.1 |8.3[[check]]  
 52|+11° 496|3 28 28.5|+11 31.7 |8.7[[check]]  
 53|+12° 493|3 28 43.1|+12 48.9 |8.7[[check]]  
 54|+13° 578|3 31 11.2|+13 14.7 |8.8[[check]]

Project PHaEDRA- Annie Jump Cannon 36  
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182

January 30, 1912 (cont)  
I 37470

[[four column table]]

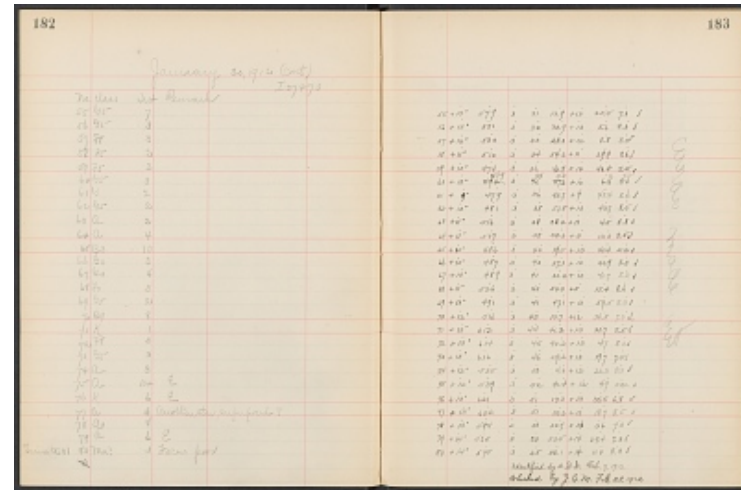
No.|Class|Int.|Remark

55|G5|7|  
56|G5|3|  
57|F8|3|  
58|F5|2|  
59|F5|2|  
60|G5|3|  
61|G|2|  
62|G5|2|  
63|A|2|  
64|A|4|  
65|B3|10|  
66|G0|3|  
67|G0|4|  
68|F0|3|  
69|G5|2|  
70|B9|8|  
71|K|1|  
72|F8|3|  
73|G5|3|  
74|A|3|  
75|A|10|~~1~~|E  
76|K|6|E  
77|A|4|[[unclear]]  
78|A0|8|  
79|A|6|E  
Time 11:01 80|MA?|3|Focus poor  
~~81~~|~~81~~|

183

[[5 column table]]

55|+13° 579|3 31 13.9|+13 25.5|7.0|[[check]]|  
56|+13° 581|3 32 30.9|+13 5.6|8.0|[[check]]|  
57|+12° 503|3 33 28.0|+12 8.8|8.0|[[check]]|  
58|+11° 510|3 34 54.2|+11 29.9|8.6|[[check]]|  
59|+10° 474|3 36 40.8|+10 40.4|8.5|[[check]]|  
60|+10° ~~492~~|~~492~~|~~492~~|3  
~~41~~|~~41~~|~~41~~|  
~~47.6~~|~~47.6~~|~~47.6~~|11.2|+10  
6.~~0~~|~~0~~|~~0~~|  
~~8.0~~|~~8.0~~|~~8.0~~|7.5|[[check]]|  
61|+9° 479|3 36 43.7|+9 43.4|8.6|[[check]]|  
62|+10° 481|3 38 51.5|+10 43.7|8.5|[[check]]|  
63|+11° 516|3 38 38.2|+11 4.5|8.8|[[check]]|  
64|+11° 517|3 38 52.0|+11 13.0|8.5|[[check]]|



65	+10°	486	3 40 19.5	+10 41.4	5.2	[[check]]
66	+10°	487	3 40 27.1	+10 21.9	8.0	[[check]]
67	+10°	489	3 41 30.2	+10 41.7	8.0	[[check]]
68	+11°	526	3 40 53.0	+11 15.4	8.6	[[check]]
69	+10°	491	3 41 47.1	+10 59.5	8.3	[[check]]
70	+12°	516	3 43 13.7	+12 36.5	7.0	[[check]]
71	+13°	612	3 44 41.2	+13 30.7	8.5	[[check]]
72	+13°	614	3 45 40.2	+13 4.7	8.0	[[check]]
73	+13°	616	3 46 29.2	+13 19.7	7.5	[[check]]
74	+12°	535	3 50 4.0	+12 20.3	8.3	[[check]]
75	+12°	539	3 52 40.4	+12 4.9	var	[[check]]
76	+13°	621	3 51 13.3	+13 35.5	6.8	[[check]]
77	+13°	622	3 51 20.2	+13 18.7	8.5	[[check]]
78	+13°	594	3 38 22.7	+13 3.6	7.0	[[check]]
79	+14°	565	3 20 53.5	+14 29.4	7.3	[[check]]
80	+41°	575	3 25 32.1	+14 11.0	8.3	[[check]]

Identified by A.D.W Feb. 7, 1912  
 Checked by F.C.M. Feb. 28, 1912

Project PHaEDRA- Annie Jump Cannon 36  
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January 30, 1912

Time 11.15 I37471

[[4 column table]]

No.|Class|Int.|Remark|

1	A2	3		
2	A2	2		
3	K	2		
4	A	4		Poor focus
5	A0	6		
6	A5	5		
7	G5	8		
8	K0	5		
9	K	2		
10	G5	2		
<del>11</del>	<del>F5</del>	<del>6</del>		
<del>12</del>	<del>F5</del>	<del>6</del>		

185

[[right margin]]  
Cards Made Out  
[[/right margin]]

[[5 column table]]

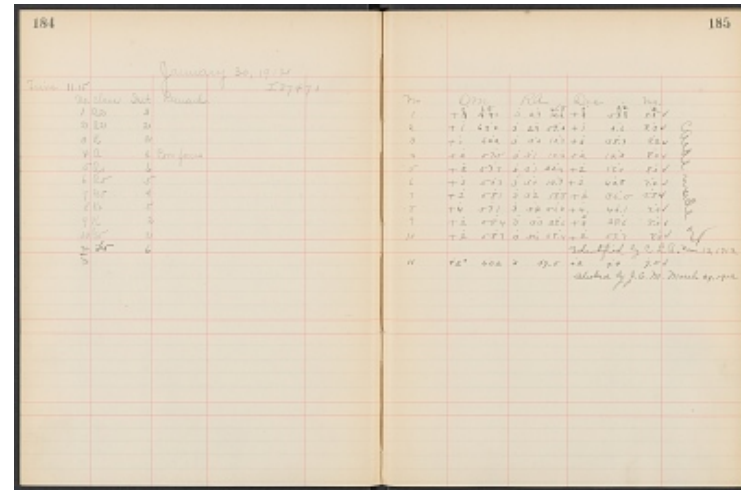
No. | DM | RA | Dec | Mg.

1	+	<del>62</del> 0	3	29	10.6	<del>10.6</del>
		<del>45.8</del>	+	<del>3</del>	<del>10.6</del>	<del>10.6</del>
9.9		<del>2.2</del>	+	<del>8</del>	<del>10.6</del>	<del>10.6</del>
2	+	1 630	3	29 59.0	+1 0.6	8.3
3	+	0 622	3	30 10.7	+0 38.9	8.2
4	+	2 575	3	31 10.4	+2 14.3	8.0
5	+	2 577	3	31 23.4	+2 17.0	8.0
6	+	3 503	3	30 13.9	+3 40.8	7.4
7	+	2 581	3	32 18.8	+2 36.5	5.8
8	+	4 571	3	32 51.3	+4 40.1	7.0
9	+	2 584	3	33 29.6	+	<del>10.6</del>
10	+	2 587	3	34 38.4	+2 57.7	8.3

| | | Identified by C.L.A. Mar. 12, 1912

11 | +2° 602 | 3 37.5 | +2 9.4 | 7.5

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



Project PHaEDRA- Annie Jump Cannon 36  
Transcribed and Reviewed by Digital Volunteers  
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186

January 30, 1912  
Time 11.30 B24325 Short disp.

[[4 column table]]

No.|Class|Int.|Remark

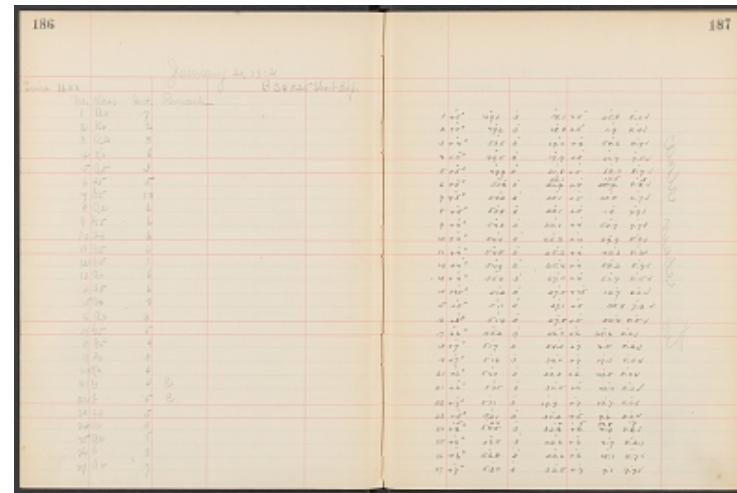
1|A0|7  
2|K0|2  
3|A2|3  
4|K0|6  
5|A5|3  
6|F5|5  
7|G5|10  
8|A2|6  
9|G5|6  
10|F0|6  
11|G5|6  
12|G5|1  
13|A0|6  
14|F5|6  
15|G0|8  
16|A0|3  
17|G5|5  
18|G5|4  
19|F0|3  
20|K0|4  
21|G|4|E  
22|F|5|E  
23|F8|5  
24|A0|3  
25|A2|5  
26|G|3  
27|A2|7

187

cards made out

[[5 column table]]

1|+5° 490|3 18.1|+5 25.8|8.0  
2|+5° 492|3 18.4|+5 1.9|8.4  
3|+4° 535|3 19.0|+4 58.6|8.7  
4|+5° 495|3 19.9|+5 21.7|7.5  
5|+5° 499|3 21.8|+5 58.0|8.7  
6|+5° 50[[~~strikethrough~~]] 0 [[~~strikethrough~~]] ^[[1]]|3 [[~~strikethrough~~]] 21.9  
[[~~strikethrough~~]] ^[[22.1]]|+5 [[~~strikethrough~~]] 25.7 [[~~strikethrough~~]]  
^[[17.5]]|8. [[~~strikethrough~~]] 5 [[~~strikethrough~~]] ^[[3]]  
7|+5° 502|3 23.1|+5 40.8|6.7  
8|+5° 503|3 23.1|+5 1.4|7.9  
9|+4° 543|3 23.1|+4 52.7|7.7  
10|+4° 544|3 23.2|+4 39.9|8.0  
11|+4° 548|3 25.2|+4 45.3|8.3  
12|+4° 549|3 25.4|+4 58.2|8.9  
13|+4° 554|3 27.0|+4 51.7|8.5  
14|+[[~~strikethrough~~]] 1 [[~~strikethrough~~]] 5° 512|3 27.5|+[[~~strikethrough~~]]





1 ~~5~~ 14.7|8.0  
 15|+5° 511|3 27.1|+5 55.8|7.3  
 16|+5° 514|3 27.8|+5 55.4|8.5  
 17|+6° 552|3 26.0|+6 25.6|8.0  
 18|+7° 517|3 24.3|+7 4.5|8.2  
 19|+7° 516|3 24.0|+7 19.3|8.3  
 20|+6° 540|3 23.3|+6 42.8|8.0  
 21|+6° 535|3 20.5|+6 47.4|8.2  
 22|+7° 511|3 19.9|+7 13.7|8.0  
 23|+5° 521|3 30.2|+5 9.6|8.0  
 24|+~~6~~ ~~5~~ 65  
~~3~~ 32. ~~6~~  
~~4~~ 4.7  
~~8~~ 2 ~~7~~  
 25|+6° 565|3 32.6|+6 4.7|8.2  
 26|+6° 568|3 33.0|+6 15.1|8.7  
 27|+7° 530|3 32.5|+7 7.1|7.7

Project PHaEDRA- Annie Jump Cannon 36  
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188

January 30, 1912 (Cont)

B 24325

[[ 4 column table ]]

No. | Class | Int. | Remark |

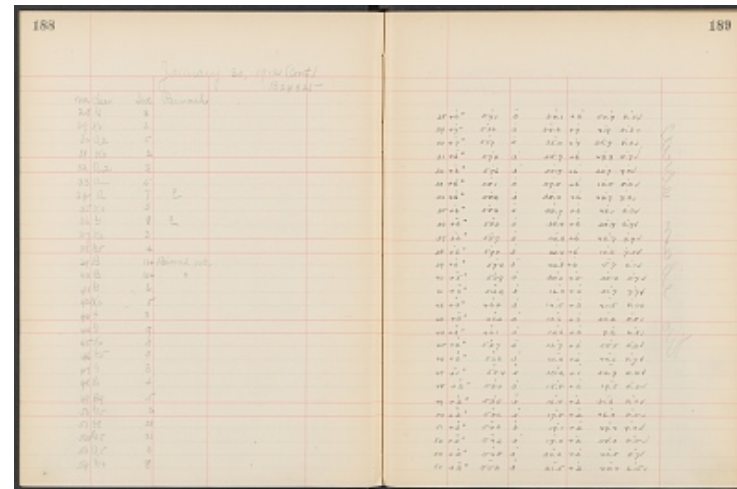
28	G	3	
29	K0	3	
30	A2	5	
31	K0	2	
32	A2	3	
33	A	5	
34	A	7	E
35	K0	3	
36	G	8	E
37	K0	3	
38	G5	4	
39	B	10+	Burned out.
40	B	10+	"
41	G	6	
42	K0	5	
43	F	3	
44	G	9	
45	K0	3	
46	G5	3	
47	G	3	
48	F0	4	
49	B9	5	
50	G5	2	
51	F8	2	
52	G5	2	
53	A5	3	
54	G0	8	

189

[[right margin]]  
Cards Made Out  
[[/right margin]]

[[ 5 column table ]]

28	+6°	571	3 34.1	+6 50.7	8.5
29	+7°	536	3 34.6	+7 4.9	8.3
30	+7°	537	3 35.0	+7 25.9	8.3
31	+6°	574	3 35.7	+6 49.9	8.7
32	+6°	576	3 35.9	+6 22.7	9.0
33	+6°	581	3 37.3	+6 10.5	8.0
34	+6°	582	3 38.0	+6 44.7	7.3
35	+6°	584	3 38.7	+6 48.1	8.0
36	+6°	583	3 38.4	+6 20.7	6.7
37	+6°	587	3 40.3	+6 40.7	7.9
38	+6°	590	3 42.4	+6 10.6	7.5



39	+6° 594	3 44.3	+6 5.7	6.1
40	+5° 539	3 38.0	+5 35.4	5.7
41	+4° 532	3 16.0	+4 21.7	7.7
42	+3° 464	3 14.5	+3 41.5	8.0
43	+3° 462	3 13.6	+3 20.2	8.8
44	+3° 461	3 13.6	+3 9.2	6.3
45	+2° 527	3 13.7	+2 55.5	8.2
46	+2° 526	3 13.4	+2 44.6	8.7
47	+1° 584	3 15.2	+1 56.9	8.8
48	+2° 534	3 15.8	+2 19.5	8.3
49	+2° 535	3 16.4	+2 31.6	8.0
50	+2° 536	3 17.8	+2 46.0	8.5
51	+2° 540	3 19.1	+2 49.4	9.0
52	+2° 542	3 19.4	+2 58.3	8.5
53	+2° 548	3 20.0	+2 40.8	8.7
54	+2° 552	3 21.5	+2 45.0	6.5

Project PHaEDRA- Annie Jump Cannon 36  
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January 30, 1912 (cont)  
B24325

[[4 column table]]

No.|Class|Int.|Remark

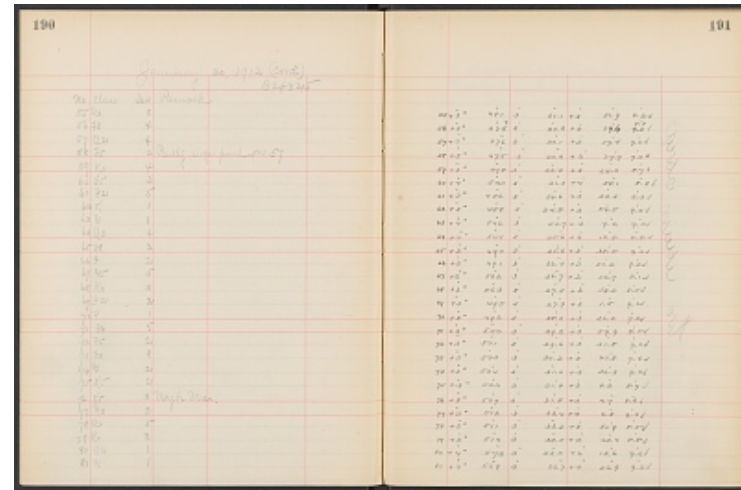
55|A0|8  
56|F8|4  
57|A2|4  
58|F5|2|Partly superposed on 57  
59|K0|4  
60|F5|3  
61|F2|5  
62|K|1  
63|G|1  
64|A3|4  
65|F8|2  
66|F|2  
67|G5|5  
68|K0|3  
69|F2|2  
70|F|1  
71|F0|5  
72|F5|2  
73|F0|8  
74|G|2  
75|K5|2  
76|K5|3|Maybe mar.  
77|G0|3  
78|A0|5  
79|K0|3  
80|A2|1  
81|G|1

191

cards made out

[[5 column table]]

55|+3° 481|3 21.1|+3 51.9|8.2  
56|+3° 47|~~[[strikethrough]]~~ 5 ~~[[/strikethrough]]~~ ^[[9]]|3 20.6|+3  
39.6|~~[[strikethrough]]~~ 9.0 ~~[[/strikethrough]]~~ ^[[8.7]]  
57|+3° 476|3 20.1|+3 37.4|9.0  
58|+3° 475|3 20.0|+3 37.7|9.0  
59|+3° 478|3 20.4|+3 24.3|8.7  
60|+4° 540|3 21.3|+4 38.1|8.8  
61|+3° 486|3 24.6|+3 23.3|8.3  
62|+3° 488|3 24.8|+3 54.5|9.0  
63|+4° 546|3 24.7|+4 9.2|9.0  
64|+4° 551|3 25.6|+4 10.8|8.8  
65|+3° 490|3 25.6|+3 38.5|9.0  
66|+3° 491|3 26.4|+3 30.2|9.2  
67|+2° 562|3 26.7|+2 56.7|8.1  
68|+2° 563|3 27.3|+2 52.3|8.5  
69|+3° 495|3 27.9|+3 1.8|9.0



70	+3°	496	3	28.0	+3	26.2	9.2
71	+3°	500	3	29.2	+3	59.9	8.5
72	+3°	501	3	29.6	+3	31.8	9.0
73	+3°	503	3	30.2	+3	40.8	7.4
74	+3°	504	3	31.0	+3	36.3	9.0
75	+3°	506	3	31.4	+3	4.2	8.9
76	+3°	507	3	31.8	+3	4.7	8.6
77	+3°	512	3	33.4	+3	6.3	9.0
78	+3°	511	3	33.2	+3	51.9	8.5
79	+3°	514	3	33.5	+3	42.4	8.8
80	+4°	572	3	33.0	+4	13.6	9.2
81	+4°	569	3	32.7	+4	26.9	9.2

Project PHaEDRA- Annie Jump Cannon 36  
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January 30, 1912 (cont)  
B24325

[[4 column table]]

No.|Class|Int.|Remark

82|G5|6

83|G|2

84|A5|5

85|A5|4

86|G5|6

87|G5|2

88|K2|3

89|A5|2

90|F5|7|too dense

91|K0|2

92|G5|5|Focus poor

93|A|3|

94|K0|4

95|K|2

96|G|1

97|G5|4

98|A0|7

99|K|2

100|F2|4

101|F|3

102|F0|3

103|~~[[K0]]~~ a ~~^[[K0]]~~ 3

~~[[4]]~~

104|A2|3

105|F8|3

106|K|2

107|K2|3

108|G5|2

193

cards made out

[[5 column table]]

82|+4° 571|3 32.9|+4 40.1|7.0

83|+5° 534|3 35.0|+5 0.7|8.7

84|+3° 517|3 35.3|+3 40.1|8.5

85|+3° 519|3 36.1|+3 45.3|8.8

86|+2° 587|3 34.6|+2 57.7|8.9

87|+2° 595|3 36.3|+2 57.7|8.3

88|+2° 603|3 38.0|+2 46.9|8.0

89|+2° 596|3 36.7|+2 17.5|9.0

90|+2° 602|3 37.5|+2 9.4|7.5

91|+0° 579|3 15.3|+0 38.7|8.3

92|+0° 581|3 16.2|+0 24.3|7.2

93|+0° 586|3 16.8|+0 50.0|8.5

94|+1° 587|3 16.9|+1 34.5|8.5

95|+1° 590|3 17.4|+1 28.2|8.5

96|+1° 592|3 18.2|+1 31.3|9.0

97|+1° 595|3 18.9|+1 40.0|8.5  
 98|+1° 597|3 19.7|+1 46.2|7.5  
 99|+1° 594|3 18.9|+1 9.3|8.7  
 100|+1° 602|3 21.5|+1 44.9|8.5  
 101|+1° 608|3 23.1|+1 34.8|8.5  
 102|+2° 556|~~2~~ ~~2~~ <sup>3</sup> 23.9|+1 9.9|8.5  
 103|+2° 557|~~2~~ ~~2~~ <sup>3</sup> 25.1|+2 39.2|8.3  
 104|+2° 559|~~2~~ ~~2~~ <sup>3</sup> 25.4|+2 5.6|9.0  
 105|+1° 622|3 27.7|+1 30.4|9.0  
 106|+1° 621|3 27.7|+1 17.6|8.7  
 107|+0° 607|3 26.9|+0 55.1|8.5  
 108|+1° 626|3 29.2|+1 11.5|8.7

Project PHaEDRA- Annie Jump Cannon 36  
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194

January 30, 1912 (Cont)  
B24325

[[4 column table]]

No. | Class | Int. | Remark

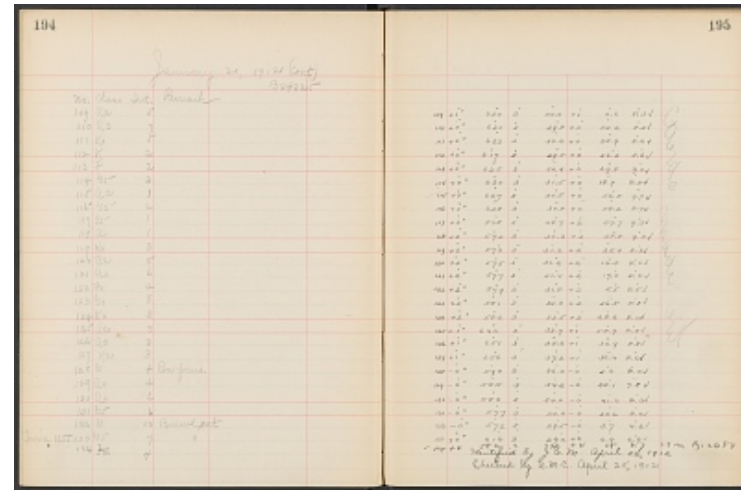
109|A2|5  
110|A3|7  
111|K0|5  
112|K|2  
113|F|2  
114|G5|3  
115|A2|1  
116|G5|2  
117|G5|1  
118|A|1  
119|K0|3  
120|A2|5  
121|A0|6  
122|F0|4  
123|G0|8  
124|K0|3  
125|A2|3  
126|A3|3  
127|K2|3  
128|G|4|Poor focus.  
129|A0|4  
130|A0|6  
131|G5|6  
132|G|10|Burned out  
Time 11.55 133|G5|7| "  
134|F2|4

195

cards made out

[[5 column table]]

109|+1° 630|3 30.0|+1 0.6|8.3  
110|+0° 620|3 29.8|+0 52.2|8.2  
111|+0° 622|3 30.2|+0 38.9|8.2  
112|+0° 617|3 29.5|+0 26.2|8.6  
113|+0° 625|3 30.4|+0 29.8|9.0  
114|+0° 630|3 31.5|+0 18.7|8.5  
115|+0° 627|3 30.5|+0 56.5|9.0  
116|+0° 628|3 30.8|+0 58.2|8.7  
117|+2° 568|3 28.7|+2 37.7|9.3  
118|+2° 572|3 30.2|+2 28.8|9.3  
119|+2° 574|3 31.2|+2 25.4|8.3  
120|+2° 575|3 31.2|+2 14.3|8.0  
121|+2° 577|3 31.4|+2 17.0|8.0  
122|+2° 579|3 31.8|+2 5.5|8.5  
123|+2° 581|3 32.3|+2 36.5|5.8  
124|+2° 584|3 33.5|+2 28.6|8.0  
125|+1° 646|3 33.7|+1 58.7|8.8





126	+1°	651	3	35.6	+1	30.9	8.8
127	+1°	656	3	37.2	+1	30.4	8.0
128	-0°	590	3	36.0	-0	2.6	8.0
129	-0°	585	3	34.2	-0	38.1	7.8
130	-0°	584	3	34.0	-0	41.6	8.3
131	-0°	577	3	30.4	-0	20.6	8.0
132	-0°	572	3	29.5	-0	3.7	4.2
133	+0°	616	3	29.4	+0	6.9	6.9
134	+4	582	3	37.4	[[?]]	+4	38 8.7

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

Project PHaEDRA- Annie Jump Cannon 36  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:40:57

196

January 31, 1912  
Time 12.12 B12680 Show disp.

No.|Class|Int.|Remark

1|G0|4  
2|B5?|10|Burned out.  
3|F5|5  
4|G5|3  
5|F5|6  
6|K0|4  
7|F0|6  
8|A0|4  
9|F0|6|Metallic lines well marked. May resemble S can Major.  
10|A0|4  
11|G5|3  
^[[11a|A2|5]]  
12|A0|10|Burned out  
13|F8|4  
14|A2|3  
15|F2|Difficult  
16|A2|5  
17|A3|4  
18|G|3  
19|B?|10+|Burned out  
20|A0|3  
21|B3|10|Classified from I37357  
22|F0|3  
23|F5|2  
24|F8|2|Difficult  
25|F0|4  
26|G|2  
27|F8|3

197

cards made out

[[5 column table]]

1|+6° 590|3 42.4|+6 10.6|7.5  
2|+6° 594|3 44.3|+6 5.7|6.1  
3|+7° 560|3 45.4|+7 20.6|var.  
4|+7° 571|3 48.7|+7 9.2|8.5  
5|+7° 575|3 50.5|+7 11.5|7.8  
6|+7° 576|3 50.6|+7 3.3|8.1  
7|+6° 605|3 48.9|+6 17.0|7.8  
8|+6° 607|3 49.9|+6 27.4|8.5  
9|+4° 601|3 46.8|+4 45.3|8.0  
10|+4° 602|3 47.1|+4 30.8|8.5  
11|+5° 562|3 48.8|+5 25.7|8.0  
^[[11a|+5° 559|3 47.2|+5 9.0|8.3]]  
12|+5° 564|3 49.3|+5 36.4|7.0  
13|+5° 567|3 50.0|+5 18.2|8.3  
14|+5° 568|3 50.1|+5 3.9|8.5  
15|+5° 570|3 50.4|+5 9.5|8.7  
16|+4° 614|3 51.9|+4 12.3|8.2

17|+4° 619|3 53.1|+4 40.3|8.5  
 18|+4° 620|3 53.5|+4 7.6|8.8  
 19|+5° 581|3 55.5|+5 35.2|4.0  
 20|Trail of "19"  
 21|+5° 584|3 56.1|+5 1.7|6.2  
 22|+4° 629|3 57.2|+4 23.1|8.7  
 23|+4° 632|3 58.3|+4 17.4|8.8  
 24|+4° 633|3 59.1|+4 29.5|8.8  
 25|+3° 563|4 0.3|+3 54.2|8.6  
 26|+4° 642|~~3~~ 1.5|+4 22.4|8.7  
 27|+5° 589|3 59.0|+5 18.4|8.5

Project PHaEDRA- Annie Jump Cannon 36  
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198

January 31, 1912 (Cont)  
B12680

[[4 column table]]

No.|Class|Int.|Remark

28|F5|8|E  
29|F2|4  
30|K5|2  
31|A0|5  
32|A5|2|Difficult  
33|F|2  
34|K|2  
35|K2|2  
36|K0|6  
37|F8|1  
38|G5|1  
39|A5|3|Difficult  
40|B9|8  
41|K2|3  
42|K2|3  
43|F|2|Difficult  
44|F5|5  
45|F8|3  
46|A0|5  
47|A0|10  
48|A~~[[/strikethrough]]~~ 0 ~~[[/strikethrough]]~~ 4  
49|G|2|Difficult  
50|G5|7  
5~~[[/strikethrough]]~~ 2 ~~[[/strikethrough]]~~ ^~~[[1]]~~ G5|2  
5~~[[/strikethrough]]~~ 3 ~~[[/strikethrough]]~~ ^~~[[3]]~~ G5|1  
5~~[[/strikethrough]]~~ 4 ~~[[/strikethrough]]~~ ^~~[[3]]~~ F0|5  
~~[[/strikethrough]]~~ 5 ~~[[/strikethrough]]~~ ^~~[[4]]~~ K2|4

199

cards made out

[[5 column table]]

28|+2° 655|4 2.2|+2 56.2|7.1  
29|+4° 582|3 37.4|+4 37.5|8.7  
30|+3° 523|3 37.7|+3 58.6|8.5  
31|+4° 588|3 39.2|+4 26.2|8.7  
32|+4° 592|3 43.5|+4 43.4|8.7  
33|+3° 540|3 49.0|+3 39.2|8.7  
34|+3° 545|3 51.1|+3 6.1|8.5  
35|+3° 546|3 51.9|+3 21.9|8.3  
36|+2° 628|3 49.1|+2 38.3|7.0  
37|+2° 629|3 49.4|+2 32.5|8.8  
38|+2° 633|3 51.2|+2 4.9|8.5  
39|+1° 691|3 52.6|+1 43.1|9.0  
40|+1° 689|3 52.2|+1 21.9|8.2  
41|+1° 685|3 50.9|+1 2.2|7.4  
42|+~~[[/strikethrough]]~~ 3 ~~[[/strikethrough]]~~ ^~~[[2]]~~ °603|3  
38.0|+~~[[/strikethrough]]~~ 3 ~~[[/strikethrough]]~~ ^~~[[2]]~~ 46.9|8.0

43|+~~3~~ ~~3~~ <sup>°</sup> 608|3  
 40.6|+~~3~~ ~~3~~ <sup>°</sup> 18.9|8.3  
 44|+1° ~~823~~ ~~3~~ <sup>°</sup> 4~~4~~  
 2 ~~0~~ <sup>°</sup> ~~1~~  
 5~~6~~ ~~6~~ <sup>°</sup> 2  
~~7.8~~ <sup>°</sup> ~~8.3~~  
 45|+~~3~~ ~~3~~ <sup>°</sup> 612|3  
 41.9|+~~3~~ ~~3~~ <sup>°</sup> 3.1|8.4  
 46|+~~3~~ ~~3~~ <sup>°</sup> 618|3  
 44.2|+~~3~~ ~~3~~ <sup>°</sup> 19.7|8.3  
 47|+1° 673|3 46.0|+1 40.7|6.7  
 48|+1° 676|3 46.6|+1 44.4|8.2  
 49|+1° 678|3 46.9|+1 55.0|8.5  
 50|+1° 679|3 47.2|+1 39.0|8.0  
 51|+1° 681|3 48.8|+1 46.6|8.0  
 52|+1° ~~817~~ ~~3~~ <sup>°</sup> ~~5~~  
 38.5 ~~37.8~~ <sup>°</sup> 0. ~~5~~  
~~9.0~~ <sup>°</sup> ~~8.8~~  
 53|+0° 651|3 38.3|+0 9.8|8.4  
 54|-0° 594|3 38.5|-0 14.4|7.8

Project PHaEDRA- Annie Jump Cannon 36  
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200

January 31, 1912 (cont)  
B12680

[[4 column table]]

No.|Class|Int.|Remark

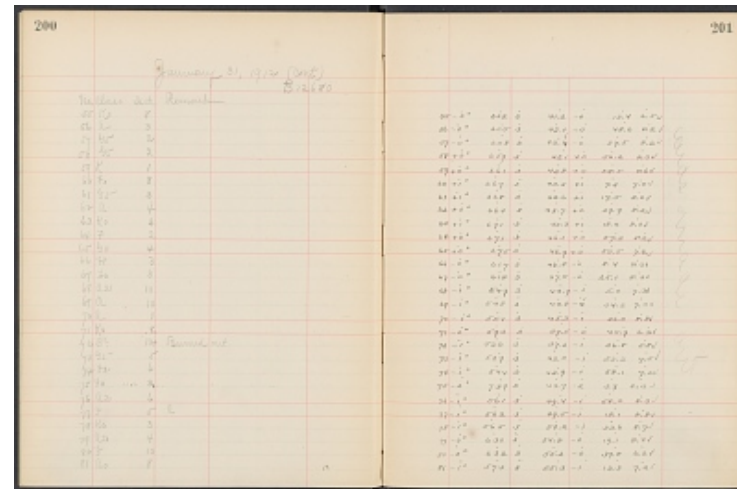
55|K0|8  
56|A|3  
57|G5|2  
58|G5|2  
59|K1|  
60|F0|8  
61|G5|3  
62|A|4  
63|K0|3  
64|F|2  
65|G0|4  
66|F8|3  
67|F0|3  
68|A2|10  
69|A|10  
70|A|1  
71|K0|8  
72|B2|10+|Burned out.  
73|G5|5  
74|F2|6  
75|F0|3  
76|A2|6  
77|F5|E  
78|K0|3  
79|A2|4  
80|F|10  
81|A0|8

201

cards made out

[[5 column table]]

55|-0° 602|3 41.2|-0 13.4|6.5  
56|-0° 605|3 42.1|-0 48.6|8.2  
57|-0° 608|3 43.1|~~43.1~~ 4 ~~37.5~~ 37.5|8.2  
58|+0° 659|3 42.1|+0 56.2|8.3  
59|+0° 661|3 42.8|+0 58.5|8.6  
60|+1° 667|3 43.3|+1 7.3|7.0  
61|+1° 668|3 43.6|+1 17.5|8.0  
62|+0° 664|3 43.7|+0 29.9|8.2  
63|+1° 671|3 45.3|+1 18.4|8.0  
64|+0° 671|3 46.1|+0 57.2|8.2  
65|+0° 675|3 46.9|+0 50.5|7.6  
66|-0° 617|3 46.8|-0 8.4|8.3  
67|-0° 618|3 47.5|-0 25.1|8.3  
68|-1° 549|3 44.9|-1 5.0|7.3  
69|-1° 548|3 44.8|~~44.8~~ 0 ~~34.3~~ 34.3|7.0  
70|-1° 551|3 45.3|-1 26.0|8.8



71	-0°	593	3	37.5	-0	45.9	6.2
72	-1°	526	3	37.2	-1	36.8	5.8
73	-1°	539	3	42.0	-1	53.2	7.5
74	-1°	544	3	42.9	-1	58.1	7.0
75	-2°	739	3	44.7	-2	3.9	8.3
76	-1°	561	3	49.4	-1	58.0	8.3
77	-1°	562	3	49.5	-1	18.1	8.8
78	-1°	565	3	50.2	-1	33.6	8.7
79	-0°	630	3	54.8	-0	19.1	8.4
80	-0°	632	3	55.2	-0	39.8	6.2
81	-1°	574	3	55.3	-1	12.3	7.2

Project PHaEDRA- Annie Jump Cannon 36  
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202

January 31, 1912 (Cont)  
B12680

[[4 column table]]

No.|Class|Int.|Remark  
82|G5|3  
83|F5|5|Focus poor  
84|F5|10  
85|F0|5  
86|K2|3  
87|B8|7  
88|B9|6  
89|Ma|4  
90|F4|E  
91|K2|E  
Time 12.32 92|F4|E

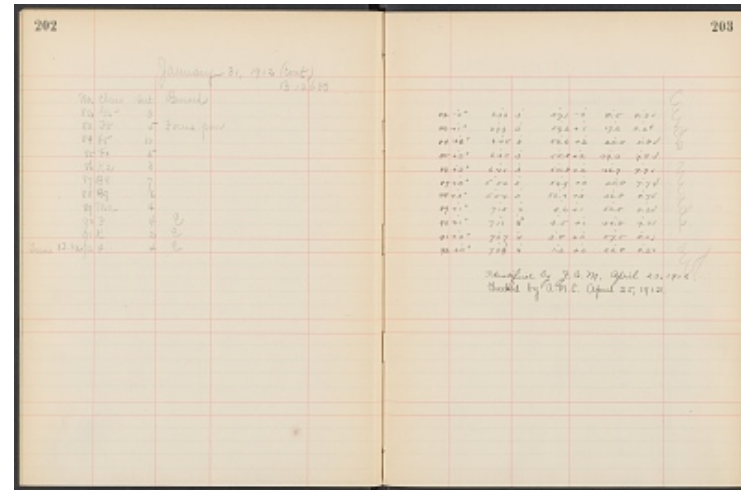
203

Cards made out

[[5 column table]]

82|-0° 636|3 57.1|-0 8.5|8.3  
83|+1° 699|2 59.2|+1 17.2|8.2  
84|+2° 645|3 56.6|+2 25.5|5.8  
85|+2° 640|3 55.8|+2 39.3|7.8  
86|+2 641|3 55.8|+2 46.7|7.7  
87|+3° 552|3 54.9|+3 25.8|7.7  
88|+3° 554|3 56.4|+3 26.8|8.7  
89|+1° 713|4 3.6|+1 56.8|8.2  
90|+1° 711|~~3~~ 3.5|+1 34.8|9.0  
91|+0° 707|4 2.8|+0 57.5|8.0  
92|+0° 70|~~2~~ 1.2|+0 23.8|8.2

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



Project PHaEDRA- Annie Jump Cannon 36  
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204  
Feb. 1, 1912  
Time 11.05 137431

[[4 column table]]

No.|Class|Int.|Remark

1|A0|6|E.

2|G2|E.

3|F0|4

4|A3|3

5|G5|3

6|G5|4

7|G5|1

8|K0|2

9|A3|2

10|G5|4

11|K0|3

12|A2|9

13|A0|8

14|G5|2

15|B9|3

16|G0|2

17|A0|4

18|G5|4

19|F5|4|E.

20|A|2

21|G5|4

22|G|2

23|G5|5

24|G5|1

25|F8|5

26|G5|3

27|G5|4

205

Cards made out

[[5 column table]]

No.|DM|RA|Dec|Mg

1|+21 354|2 20 59.0|+22 49.6|6.0

2|+21 346|2 23 10.5|+2~~[[/strickethrough]] 0~~ ~~[[/strickethrough]]~~ <sup>^[[1]]</sup>

26.8|8.0

3|+21 348|2 23 57.4|+2~~[[/strickethrough]] 0~~ ~~[[/strickethrough]]~~ <sup>^[[1]]</sup> 21.5|

4|+21 349|2 24 10.9|+21 39.9|8.0

5|+20 414|2 23 37.2|+20 43.7|7.3

6|+20 416|2 24 5.3|+20 28.7|7.7

7|+19 371|2 25 20.9|+19 48.3|8.3

8|+19 374|2 26 15.2|+19 21.4|8.3

9|+~~[[/strickethrough]] 14~~ ~~[[/strickethrough]]~~ <sup>^[[20]]</sup> 4~~[[/strickethrough]] 92~~

~~[[/strickethrough]]~~ <sup>^[[33]]</sup> 2 ~~[[/strickethrough]]~~ 47 ~~[[/strickethrough]]~~ <sup>^[[28]]</sup>

~~[[/strickethrough]]~~ 40.6 ~~[[/strickethrough]]~~ <sup>^[[33.8]]</sup> +~~[[/strickethrough]] 14~~

~~[[/strickethrough]]~~ <sup>^[[20]]</sup> ~~[[/strickethrough]]~~ 6.6 ~~[[/strickethrough]]~~

<sup>^[[4.0]]</sup>~~[[/strickethrough]]~~ 7.0 ~~[[/strickethrough]]~~ <sup>^[[8.3]]</sup>

10|+19 389|2 29 23.6|+19 56.9|7.6

11|+19 394|2 30 29.0|+19 6.1|7.5

12|+21 362|2 30 34.9|+21 20.7|5.8  
 13|+19 403|2 34 11.9|+19 22.9|5.8  
 14|+19 405|2 34 50.3|+19 36.1|8.0  
 15|+20 452|2 35 27.8|+20 31.5|7.2  
 16|+~~19~~ ~~19~~ ~~4~~ ~~32~~  
~~55~~<sup>2</sup> ~~4~~ ~~6~~  
~~3.8~~ ~~59.3~~ ~~33.6~~ + ~~58.0~~  
~~59.3~~ ~~6.8~~ ~~7.7~~  
 17|+~~19~~ ~~4~~ ~~33~~  
~~58~~<sup>2</sup> ~~46~~ ~~37~~  
 35.~~8~~ ~~3~~ + ~~19~~  
~~20~~ ~~46.3~~ ~~4.0~~  
~~0~~ ~~7.~~ ~~0~~  
~~3~~  
 18|+22 392|2 38 57.2|+22 21.2|6.5  
 19|+23 369|2 39 10.0|+23 2.2|6.8  
 20|+19 424|2 40 9.0|+19 24.5|8.3  
 21|+18 347|2 39 17.2|+18 46.7|6.8  
 22|+18 344|2 38 11.8|+18 12.6|8.3  
 23|+17 442|2 40 24.7|+17 41.4|6.0  
 24|+18 355|2 41 3.3|+18 7.3|8.1  
 25|+18 359|2 42 32.0|+18 33.2|7.2  
 26|+19 432|2 46 3.8|+19 58.0|6.8  
 27|+19 433|2 46 35.8|+19 46.3|7.0

Project PHaEDRA- Annie Jump Cannon 36  
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No.	DM	RA	Dec	Mg
28	+20	480	2 49	47.3 +20 4.0 6.0
29	+19	440	2 50	55.8 +19 23.1 8.0
30	+20	484	2 50	55.8 +20 46.1 4.2
31	+21	39.7	2 50	34.5 +21 1.5 7.0
32	+21	3[[ <del>striekthrough</del> ]]	2 [[ <del>striekthrough</del> ]]	^[[9]] 6 2 50 32.3 +21 26.0 8.0
33	+1[[ <del>striekthrough</del> ]]	8 [[ <del>striekthrough</del> ]]	^[[9]] 365	2 22 31.3 +19 12.7 6.4
34	+17	380	2 22	53.1 +17 3.9 6.5
35	+17	383	2 23	59.0 +17 44.0 8.3
36	+18	325	2 25	31.2 +18 15.6 7.0
37	+17	414	2 32	28.2 +17 58.4 7.8
38	+18	337	2 33	0.2 +18 11.1 7.0
39	+17	419	2 33	58.3 +17 8.1 7.8
40	+16	330	2 34	18.5 +16 20.2 8.3
41	+16	337	2 35	34.0 +16 55.5 7.9

206

207

Feb. 6, 1918.

= 19181

No.	Sex	Age	Remarks
12	3a	1	
13	3a	1	
14	3a	1	
15	3a	1	
16	3a	1	
17	3a	1	
18	3a	1	
19	3a	1	
20	3a	1	
21	3a	1	
22	3a	1	
23	3a	1	
24	3a	1	
25	3a	1	
26	3a	1	
27	3a	1	
28	3a	1	
29	3a	1	
30	3a	1	
31	3a	1	
32	3a	1	
33	3a	1	
34	3a	1	
35	3a	1	
36	3a	1	
37	3a	1	
38	3a	1	
39	3a	1	
40	3a	1	
41	3a	1	
42	3a	1	
43	3a	1	
44	3a	1	
45	3a	1	
46	3a	1	
47	3a	1	
48	3a	1	
49	3a	1	
50	3a	1	
51	3a	1	
52	3a	1	
53	3a	1	
54	3a	1	
55	3a	1	
56	3a	1	
57	3a	1	
58	3a	1	
59	3a	1	
60	3a	1	
61	3a	1	
62	3a	1	
63	3a	1	
64	3a	1	
65	3a	1	
66	3a	1	
67	3a	1	
68	3a	1	
69	3a	1	
70	3a	1	
71	3a	1	
72	3a	1	
73	3a	1	
74	3a	1	
75	3a	1	
76	3a	1	
77	3a	1	
78	3a	1	
79	3a	1	
80	3a	1	
81	3a	1	
82	3a	1	
83	3a	1	
84	3a	1	
85	3a	1	
86	3a	1	
87	3a	1	
88	3a	1	
89	3a	1	
90	3a	1	
91	3a	1	
92	3a	1	
93	3a	1	

Duty assigned

No.	Sex	Age	Remarks
84	3a	1	
85	3a	1	
86	3a	1	
87	3a	1	
88	3a	1	
89	3a	1	
90	3a	1	
91	3a	1	
92	3a	1	
93	3a	1	
94	3a	1	
95	3a	1	
96	3a	1	
97	3a	1	
98	3a	1	
99	3a	1	
100	3a	1	
101	3a	1	
102	3a	1	
103	3a	1	
104	3a	1	
105	3a	1	
106	3a	1	
107	3a	1	
108	3a	1	
109	3a	1	
110	3a	1	
111	3a	1	
112	3a	1	
113	3a	1	
114	3a	1	
115	3a	1	
116	3a	1	
117	3a	1	
118	3a	1	
119	3a	1	
120	3a	1	
121	3a	1	
122	3a	1	
123	3a	1	
124	3a	1	
125	3a	1	
126	3a	1	
127	3a	1	
128	3a	1	
129	3a	1	
130	3a	1	
131	3a	1	
132	3a	1	
133	3a	1	
134	3a	1	
135	3a	1	
136	3a	1	
137	3a	1	
138	3a	1	
139	3a	1	
140	3a	1	
141	3a	1	
142	3a	1	
143	3a	1	
144	3a	1	
145	3a	1	
146	3a	1	
147	3a	1	
148	3a	1	
149	3a	1	
150	3a	1	
151	3a	1	
152	3a	1	
153	3a	1	
154	3a	1	
155	3a	1	
156	3a	1	
157	3a	1	
158	3a	1	
159	3a	1	
160	3a	1	
161	3a	1	
162	3a	1	
163	3a	1	
164	3a	1	
165	3a	1	
166	3a	1	
167	3a	1	
168	3a	1	
169	3a	1	
170	3a	1	
171	3a	1	
172	3a	1	
173	3a	1	
174	3a	1	
175	3a	1	
176	3a	1	
177	3a	1	
178	3a	1	
179	3a	1	
180	3a	1	
181	3a	1	
182	3a	1	
183	3a	1	
184	3a	1	
185	3a	1	
186	3a	1	
187	3a	1	
188	3a	1	
189	3a	1	
190	3a	1	
191	3a	1	
192	3a	1	
193	3a	1	
194	3a	1	
195	3a	1	
196	3a	1	
197	3a	1	
198	3a	1	
199	3a	1	
200	3a	1	

Duty assigned

42|+17 426|2 36 14.4|+17 8.8|6.5  
 43|+16 342|2 37 40.7|+16 23.3|7.8  
 44|+16 345|2 39 15.7|+16 41.2|8.6  
 45|+16 346|2 39 19.5|+16 35.7|8.7  
 46|+16 355|2 41 13.1|+16 51.5|5.7  
 47|+15 400|2 45 7.9|+15 53.5|6.5  
 48|+17 454|2 46 48.9|+17 8.8|7.0  
 49|+17 457|2 47 40.7|+17 44.4|6.0  
 50|+17 458|2 48 14.7|+17 26.4|6.5  
 51|+17 461|2 49 46.4|+17 13.6|7.3  
 52|+17 463|2 50 30.1|+17 5.4|8.7  
 53|+17 471|2 52 23.1|+17 25.4|6.8  
 54|+14 ~~1~~ ~~19~~ 24 58.9|+14  
 24.0|6.5

Project PHaEDRA- Annie Jump Cannon 36  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-30-2022 03:40:57

208  
Feb. 1, 1912  
[[~~Class~~]] No. | Class | [[~~Class~~]] I37431

[[4 column table]]

No. | Class | Int. | Remark

55 | F8 | 4 | E

56 | G5 | 3

57 | A2 | 3

58 | B9 | 3

59 | G | 2

60 | F5 | 2

61 | B8 | 7

62 | A0 | 3

63 | G5 | 2

64 | K0 | 3

65 | B8 | 9

66 | G5 | 2

67 | G5 | 3

\* 68 | K | [[~~Class~~]] 0 | [[~~Class~~]] 3

69 | A | 3

70 | G | 10+ | Burned out

71 | F8 | 4 | E

72 | A | 3 | E

Time 11.22

\* Second exam. K0.

209

Cards made out

[[5 column table]]

No. | DM | RA | Dec | Mg

55 | +13 | 411 | 2 28 | 7.9 | +13 | 8.0 | 7.5

56 | +14 | 439 | 2 31 | 2.9 | +14 | 13.8 | 7.5

57 | +16 | 322 | 2 32 | 7.7 | +16 | 5.9 | 7.8

58 | +14 | 448 | 2 34 | 30.5 | +14 | 36.0 | 8.0

59 | +14 | 454 | 2 36 | 0.9 | +14 | 56.6 | 8.5

60 | +14 | 456 | 2 36 | 9.9 | +14 | 27.7 | 8.5

61 | +14 | 457 | 2 36 | 34.8 | +14 | 42.3 | 6.0

62 | +14 | 462 | 2 38 | 17.9 | +14 | 24.2 | 7.8

63 | +14 | 467 | 2 39 | 38.3 | +14 | 37.1 | 7.8

64 | +14 | 469 | 2 39 | 59.5 | +14 | 53.8 | 7.5

65 | +14 | 480 | 2 42 | 30.5 | +14 | 28.1 | 6.0

66 | +15 | 401 | 2 45 | 55.3 | +15 | 24.8 | 8.2

67 | +15 | 407 | 2 47 | 12.7 | +15 | 42.8 | 7.8

68 | +15 | 414 | 2 49 | 24.2 | +15 | 41.6 | 7.3

69 | +14 | 492 | 2 47 | 40.6 | +14 | 6.6 | 7.0

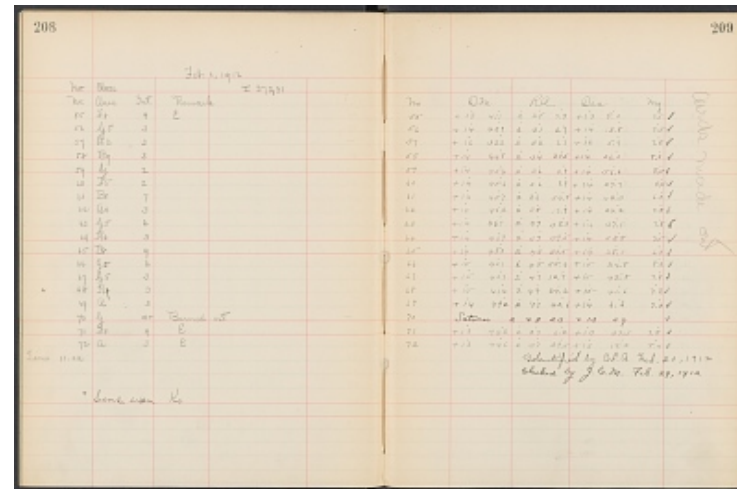
70 | Saturn | 2 48 | 23 | +13 | 39 | ]

71 | +13 | 442 | 2 37 | 6.2 | +13 | 37.5 | 7.8

72 | +13 | 446 | 2 37 | 29.5 | +13 | 19.2 | 8.4

Identified by C.F.A. Feb. 20, 1912

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



Project PHaEDRA- Annie Jump Cannon 36  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-30-2022 03:40:57

210  
Feb. 2, 1912  
Time 12.00 136654

[[4 column table]]

No.|Class|Int.|Remark

1|A2|6|E.  
2|G5|4  
3|F|6|E.  
4|G|10|E.  
5|K0|5  
6|F0|8  
7|A0|10  
8|A|1  
9|A5|8  
10|F0|7  
11|A3|2  
12|K2|7  
13|A|3  
14|F5|5|E.  
15|G5|~~7~~ ~~^~~[[3]]  
16|B9|6  
17|G0|6  
18|F8|~~5~~ ~~^~~[[6]]  
19|B9|3  
20|F8|4  
21|F8|3  
22|G0|4  
23|K5|6  
24|A0|4  
25|A0|6  
26|A2|4|E  
27|A2|3|E

211

Cards made out

[[5 column table]]

No.|DM|RA|Dec|Mg

1|+61 739|4 40 37|+61 13.8|6.9  
2|+61 742|4 44 10|+61 30.6|7.1  
3|+60 853|4 48 36.7|+60 50.8|7.0  
4|+60 856|4 50 34.9|+60 12.9|5.0  
5|+60 857|4 53 26.7|+60 57.7|6.7  
6|+62 730|4 56 18|+62 17.4|7.0  
7|+61 766|4 59 47|+61 39.8|6.7  
8|+61 763|4 59 8|+61 16.5|8.8  
9|+62 734|5 0 5|+62 30.4|6.7  
10|+62 735|5 1 2|+62 55.2|7.5  
11|+62 736|5 1 11|+62 21.9|8.8  
12|+62 742|5 6 51|+62 29.5|6.0  
13|+62 743|5 7 2|+62 59.4|8.0  
14|+60 870|5 4 33.4|+60 0.2|8.2  
15|+61 782|~~4~~ ~~^~~[[5]] 9 40|+61 37.2|7.8  
16|+61 783|~~4~~ ~~^~~[[5]] 11 43|+61

210					211				
Data from					Data from				
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
1	A2	6	E.		1	A2	6	E.	
2	G5	4			2	G5	4		
3	F	6	E.		3	F	6	E.	
4	G	10	E.		4	G	10	E.	
5	K0	5			5	K0	5		
6	F0	8			6	F0	8		
7	A0	10			7	A0	10		
8	A	1			8	A	1		
9	A5	8			9	A5	8		
10	F0	7			10	F0	7		
11	A3	2			11	A3	2		
12	K2	7			12	K2	7		
13	A	3			13	A	3		
14	F5	5	E.		14	F5	5	E.	
15	G5	<del>7</del>	<del>^</del> [[3]]		15	G5	<del>7</del>	<del>^</del> [[3]]	
16	B9	6			16	B9	6		
17	G0	6			17	G0	6		
18	F8	<del>5</del>	<del>^</del> [[6]]		18	F8	<del>5</del>	<del>^</del> [[6]]	
19	B9	3			19	B9	3		
20	F8	4			20	F8	4		
21	F8	3			21	F8	3		
22	G0	4			22	G0	4		
23	K5	6			23	K5	6		
24	A0	4			24	A0	4		
25	A0	6			25	A0	6		
26	A2	4	E		26	A2	4	E	
27	A2	3	E		27	A2	3	E	

41.1	8.0								
17	+63	579	5	11	2	+63	13.9	7.0	
18	+63	577	5	9	40	+63	58.7	8.0	
19	+63	580	5	11	14	+63	55.8	8.4	
20	+64	523	5	10	39	+64	33.6	7.5	
21	+63	585	5	16	39	+63	49.3	8.5	
22	+64	532	5	17	31	+64	11.5	8.2	
23	+62	759	5	16	31	+62	56.3	6.0	
24	+62	762	5	18	7	+62	51.9	7.5	
25	+60	884	5	16	53.4	+60	8.5	7.0	
26	+59	890	5	22	13.1	+59	24.5	8.3	
27	+59	891	5	22	29.7	+59	39.0	7.7	

Project PHaEDRA- Annie Jump Cannon 36  
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212  
Feb. 2, 1912  
136654

[[4 column table]]

No.|Class|Int.|Remark

28|A0|3  
29|A|2  
30|G5|2  
31|G|1|Focus poor  
32|F0|6  
33|F5|3  
34|G5|6  
35|F5|3  
36|A5|6  
37|B8?|4|E.  
38|A2|10|E. 4026 appears to be seen.  
39|F0|4  
40|A0|7  
41|Ma|7  
42|G|3|Poor focus  
43|G|4|Another star superposed.  
44|F|2  
45|G0|2  
46|F0|8  
47|F8|4  
48|F2|9  
49|G|~~2~~ <sup>2</sup> ~~^~~ <sup>[[3]]</sup>  
50|A|2  
51|A2|2  
52|K0|3  
53|B9|3  
54|F2|4

213

Cards made out

[[5 column table]]

No.|DM|RA|Dec|Mg

28|+60 890|5 24 2.2|+60 29.5|8.0  
29|+61 793|~~[[5]]~~ 4 ~~[[5]]~~ 19 38|+61 8.3|8.6  
[[?]]  
30|+61 799|~~[[5]]~~ 4 ~~[[5]]~~ 23 25|+61  
18.2|8.0  
31|+61 800|~~[[5]]~~ 4 ~~[[5]]~~ 23 45|+61 7.6|8.2  
32|+61 806|~~[[5]]~~ 4 ~~[[5]]~~ 27 4|+61 51.8|6.8  
33|+61 813|~~[[5]]~~ 4 ~~[[5]]~~ 29 17|+61  
32.6|7.9  
34|+61 81|~~[[5]]~~ 5 ~~[[6]]~~ ~~[[30]]~~ 4  
[[5]] ~~[[5]]~~ 29 ~~[[30]]~~ <sup>[[52]]</sup>+61 <sup>[[52]]</sup> 11.8  
[[22.9]] ~~[[5]]~~ 8.8 ~~[[6.5]]~~  
35|+60 897|5 30 21.0|+60 56.3|7.8  
36|+60 894|5 28 32.2|+60 31.9|7.0  
37|+61 831|5 39 56|+61 37.7|7.9

38	+	59	920	5	42	1.3	+	59	50.5	5.7				
39	+	60	915	5	45	40.8	+	60	21.4	7.1				
40	+	63	536	4	36	38	+	63	21.7	7.0				
41	+	63	543	4	38	33	+	63	15.0	5.8				
42	+	62	718	4	44	40	+	62	47.9	8.3				
43	+	62	723	^	[[722]]	4	50	0	+	62	52.2	^	[[51.7]]	8.5
44	+	63	561	4	50	53	+	63	55.7	8.3				
45	+	63	565	4	55	59	+	63	37.4	8.0				
46	+	63	566	4	56	58	+	63	23.2	7.0				
47	+	64	503	4	58	37	+	64	6.3	8.5				
48	+	64	500	4	55	40	+	64	42.9	6.9				
49	+	64	504	4	58	55	+	64	33.0	8.3				
50	+	64	506	5	1	49	+	64	27.2	9.1				
51	+	64	57	[[?]]	6	5	4	41	+	64	40.8	9.0		
52	+	65	456	4	55	17	+	65	48.0	8.0				
53	+	65	459	4	57	16	+	65	49.4	8.5				
54	+	65	464	4	59	37	+	65	52.2	7.3				

Project PHaEDRA- Annie Jump Cannon 36  
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214  
Feb. 2, 1912

[[4 column table]]

No.|Class|Int.| I136654  
| | |Remark

55|A|2  
56|G5|7  
57|G5|2  
58|A0|3  
59|F0|2  
60|G5|3  
61|A5|8  
62|A2|5|A star of same class superposed  
63|A2|4  
64|B9|10  
65|A3|3  
66|A|2  
67|G5|5  
68|A5|4  
69|F5|4  
70|F0|5  
71|G5|7  
72|A2|8  
73|F5|2  
74|A|2  
75|A5|4|E.  
76|K0|9  
77|A2|3  
78|K0|5  
79|A|1  
80|F0|2  
81|K0|3  
82|F8|6

215

Cards made out

[[5 column table]]

No.|DM|RA|Dec|Mg

55|+66 380|5 1 5|+66 1.6|9.0  
56|+66 385|5 5 54|+66 34.0|6.8  
57|+66 387|5 7 0|+66 52.1|7.8  
58|+66 391|5 8 11|+66 2.6|8.0  
59|+66 394|5 13 1|+66 34.9|9.1  
60|+66 399|5 15 40|+66 6.5|8.0  
61|+66 401|5 22 26|+66 35.5|7.0  
62|+64 53|~~3~~ 4|5 20 ~~58.5~~  
35 ~~58.5~~ 35 ~~58.5~~ 35 ~~58.5~~  
^[[56.2]]~~58.5~~ 8.8 ~~58.5~~ 7.7  
superposed]]  
63|+6~~58.5~~ 4 ~~58.5~~ 533  
~~58.5~~ 482]]5 2~~58.5~~ 0 ~~58.5~~ 3]]  
~~58.5~~ 35 ~~58.5~~ 10]]+6~~58.5~~ 4  
~~58.5~~ 5]] ~~58.5~~ 58.5 ~~58.5~~

$^{[1.3]}8.[\text{strickethrough}] 8 [\text{strickethrough}] ^{[0]}$   
 64|+64 536|5 23 15|+64 3.0|6.7  
 65|+63 592|5 22 11|+63 23.3|8.0  
 66|+63 596|5 24 10|+63 48.8|9.0  
 67|+63 599|5 27 58|+63 12.0|7.0  
 68|+62 775|5 27 58|+62 31.5|8.1  
 69|+62 77|~~strickethrough~~ 8 ~~strickethrough~~  $^{[9]}5 30$   
~~strickethrough~~ 19 ~~strickethrough~~  $^{[2] [\text{strickethrough}] 2}$   
~~strickethrough~~ 4|+62 ~~strickethrough~~ 26.3 ~~strickethrough~~  
 $^{[17.0]}8.[\text{strickethrough}] 8 [\text{strickethrough}] ^{[0]}$   
 70|+63 602|5 32 6|+63 13.4|7.3  
 71|+63 604|5 33 39|+63 32.1|7.4  
 72|+62 784|5 35 24|+62 44.0|6.5  
 73|+62 788|5 38 9|+62 59.8|8.4  
 74|+63 612|5 39 35|+63 24.8|8.9  
 75|+63 616|5 42 18|+63 14.8|7.9  
 76|+65 485|5 27 57|+65 37.8|6.0  
 77|+66 405|5 28 45|+66 26.2|8.7  
 78|+66 406|5 29 5|+66 32.8|7.8  
 79|+64 541|5 29 29|+64 59.0|8.9  
 80|+64 542|5 29 35|+64 39.4|8.8  
 81|+64 544|5 31 58|+64 40.9|7.3  
 82|+65 497|5 36 29|+65 41.5|7.0

Project PHaEDRA- Annie Jump Cannon 36  
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216

Feb. 2 1912  
I 36654

[[4 column table]]

No.|Class|Int.|Remark

83|K0|3|  
84|A5|2|  
85|K0|6|  
86|A3|6|  
87|G5|4|E.  
88|A3|7|E.  
89|K0|3|E.  
90|G5|4|E.  
91|G5|4|  
92|B|10+|Burned out  
93|G5|3|  
94|G5|4|  
95|A|2|  
96|K|2|  
97|F8|7|  
98|F2|6|  
99|A0|7|  
100|F0|4|  
101|A2|5|Metallic lines clearly seen.  
102|A3|3|  
103|B8?|4|Difficult  
104|A3|3|  
105|F0|6|  
106|G|3|Focus poor  
107|F0|3|  
108|F0|2|  
109|A|3|E

217

[[5 column table]]

Cards made out

No.|DM|RA|Dec|Mg

83|+65 499|5 37 46|+65 6.1|7.6  
84|+64 551|5 39 21|+64 57.1|8.7  
85|+66 413|5 42 52|+66 3.7|6.7  
86|+65 507|5 46 46|+65 30.2|7.0  
87|+65 509|5 47 44|+65 2.4|7.3  
88|+66 419|5 45 49|+66 59.9|7.0  
89|+66 420|5 47 18|+66 51.7|7.7  
90|+64 475|4 32 34|+64 32.0|7.2  
91|+65 435|4 39 9|+65 44.2|7.5  
92|+66 358|4 39 39|+66 3.5|5.0  
93|+66 360|4 40 2|+66 11.0|8.2  
94|+65 439|4 43 25|+65 3.0|7.4  
95|+65 446|4 46 50|+65 8.9|8.9  
96|+65 449|4 48 16|+65 21.1|8.3  
97|+66 370|4 48 11|+66 37.3|7.0

216					217				
Feb. 2 1912					Feb. 2 1912				
No.	Class	Int.	Remark		No.	Class	Int.	Remark	
83	K0	3			83	K0	3		
84	A5	2			84	A5	2		
85	K0	6			85	K0	6		
86	A3	6			86	A3	6		
87	G5	4	B.		87	G5	4	B.	
88	A3	7	E.		88	A3	7	E.	
89	K0	3	E.		89	K0	3	E.	
90	G5	4	E.		90	G5	4	E.	
91	G5	4			91	G5	4		
92	B	10+	Burned out		92	B	10+	Burned out	
93	G5	3			93	G5	3		
94	G5	4			94	G5	4		
95	A	2			95	A	2		
96	K	2			96	K	2		
97	F8	7			97	F8	7		
98	F2	6			98	F2	6		
99	A0	7			99	A0	7		
100	F0	4			100	F0	4		
101	A2	5	Metallic lines clearly seen.		101	A2	5	Metallic lines clearly seen.	
102	A3	3			102	A3	3		
103	B8?	4	Difficult		103	B8?	4	Difficult	
104	A3	3			104	A3	3		
105	F0	6			105	F0	6		
106	G	3	Focus poor		106	G	3	Focus poor	
107	F0	3			107	F0	3		
108	F0	2			108	F0	2		
109	A	3	E		109	A	3	E	

98|+6 ~~6~~ ~~^[[7]]~~ 367|4 57 21|+67  
 29.3|6.9  
 99|+67 371|4 59 8|+67 16.8|7.0  
 100|+67 373|4 59 50|+67 11.3|7.5  
 101|+67 379|5 4 31|+67 48.7|7.5  
 102|+67 384|5 13 0|+67 30.6|8.3  
 103|+67 385|5 13 39|+67 46.8|8.0  
 104|+67 386|5 15 3|+67 4.9|8.0  
 105|+67 390|5 17 45|+67 53.4|7.0  
 106|+6 ~~7~~ ~~^[[8]]~~ 39 ~~6~~  
~~^[[3]]~~ 5 2 ~~9~~ ~~^[[0]]~~  
~~4~~ ~~^[[4]]~~ 1|+68 59.4|8.3  
 107|+6 ~~7~~ ~~^[[8]]~~ 396|5 2  
~~9~~ ~~^[[0]]~~ ~~33~~ ~~^[[41]]~~  
~~6~~ ~~7~~ ~~^[[?]]~~ ~~^[[7]]~~  
 52.6|8.5  
 108|+67 397|5 29 36|+67 12.8|8.5  
 109|+66 340|4 27 38|+66 59.8|7.8

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