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Project PHaEDRA - Dorrit Hoffleit - Spectral Classification - Bright Stars. #1

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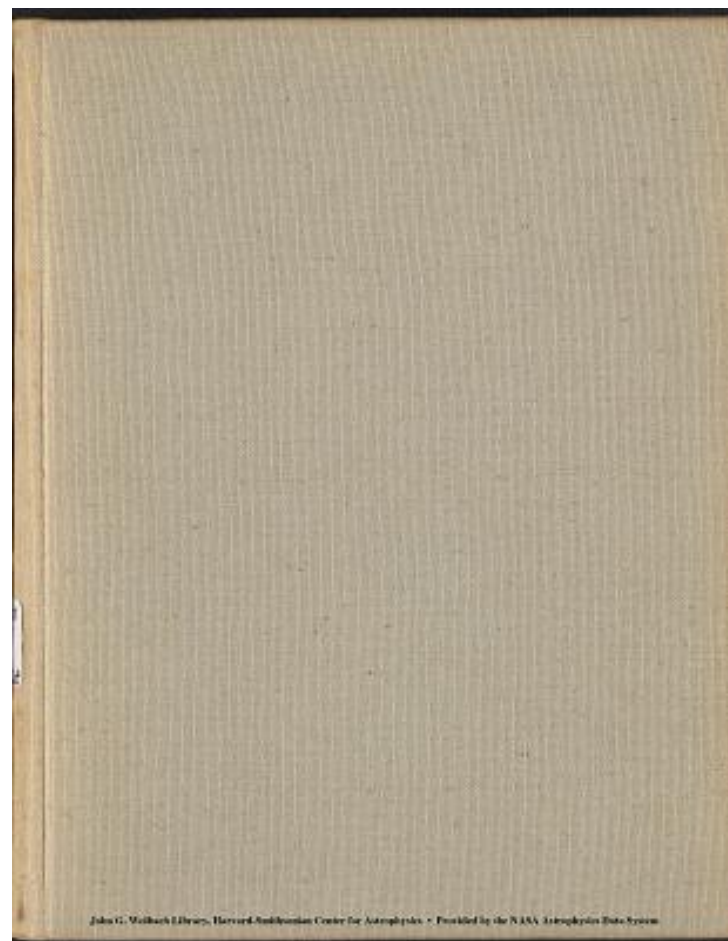
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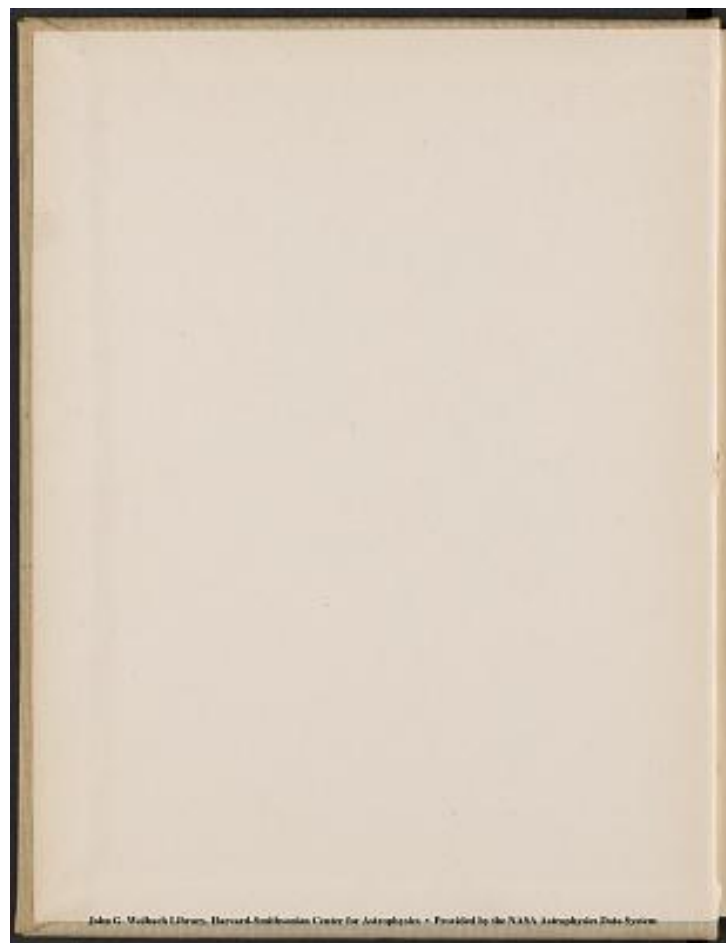
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[[cover page]]



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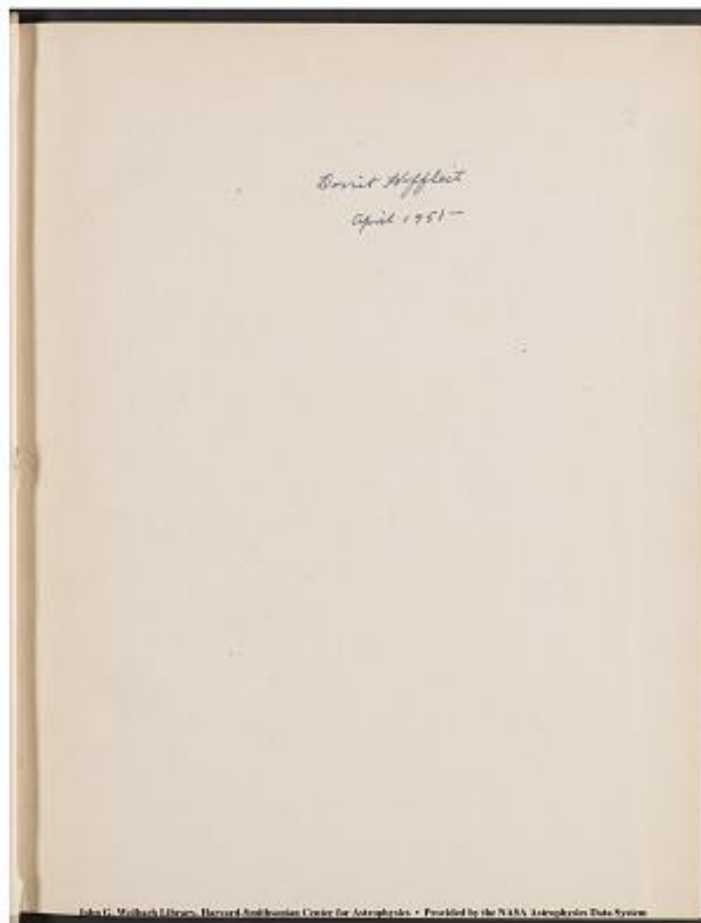
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Dorrit Hoffleit

April 1951 —



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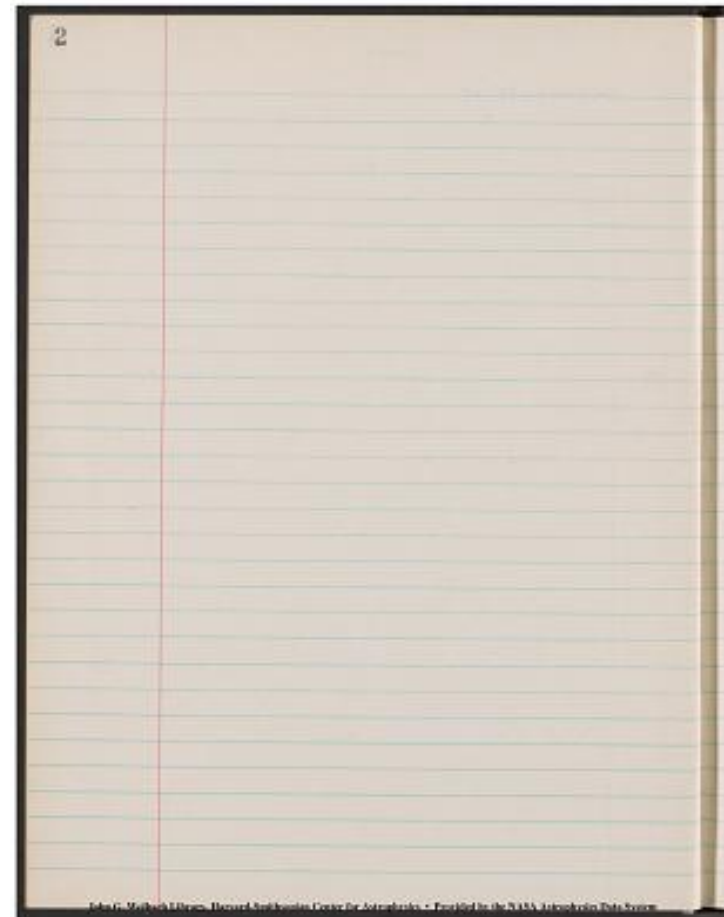
1

Index

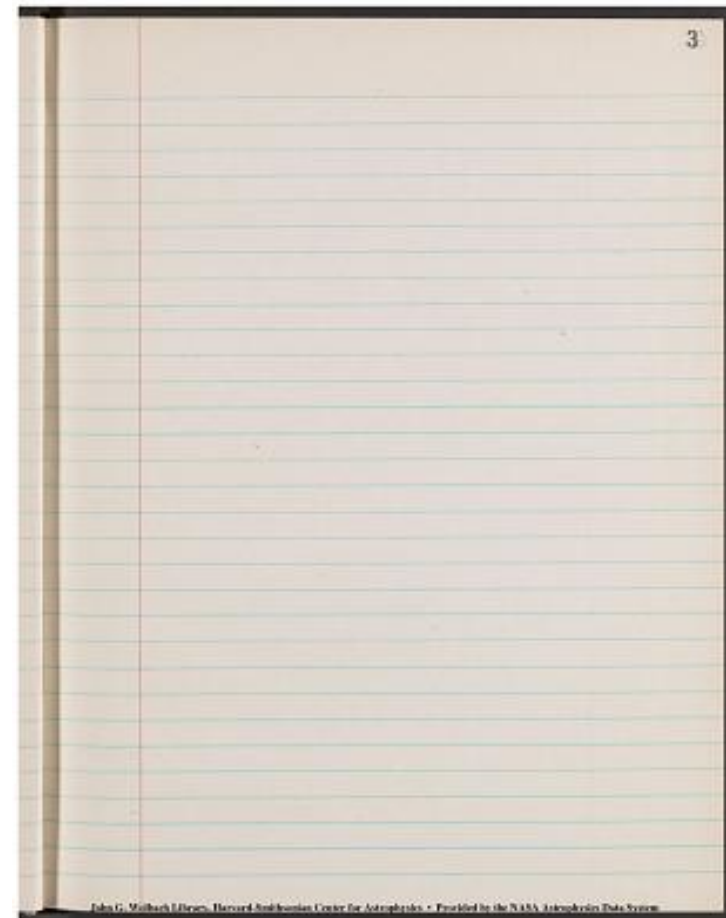
Cape Zone -52° -64°



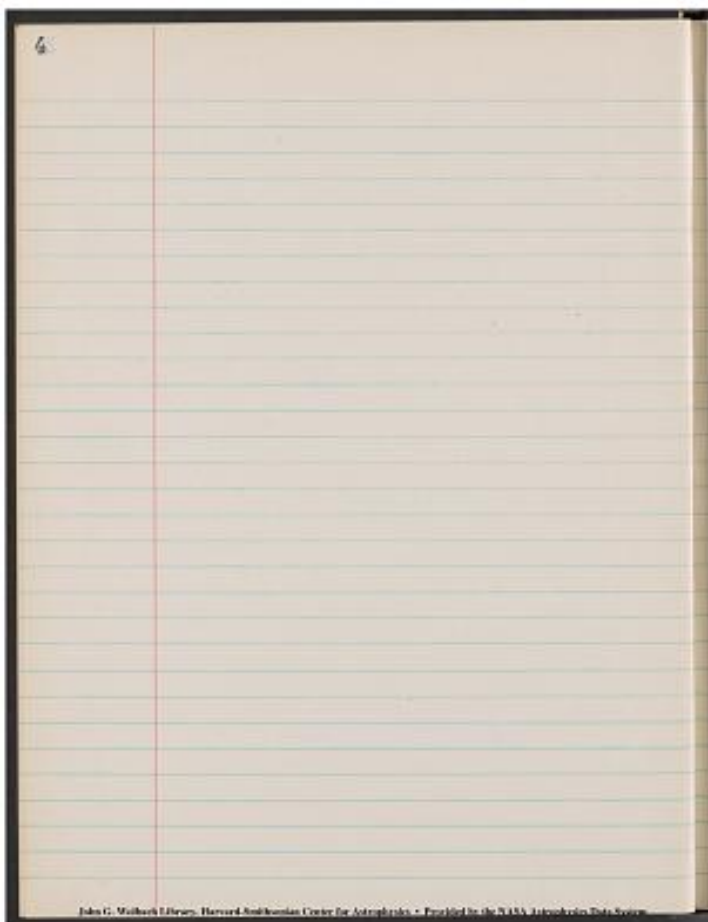
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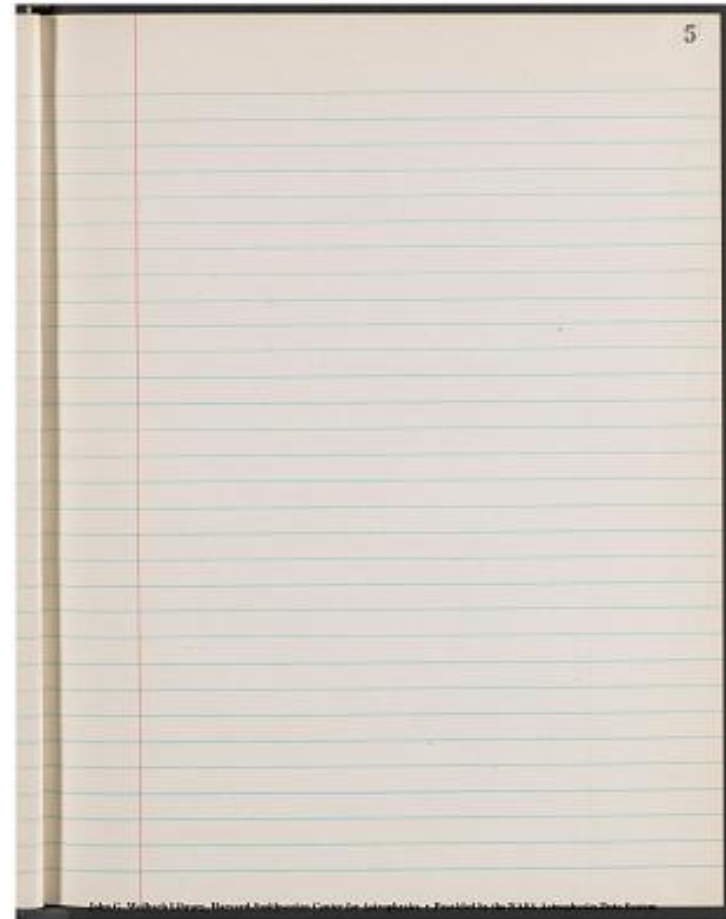
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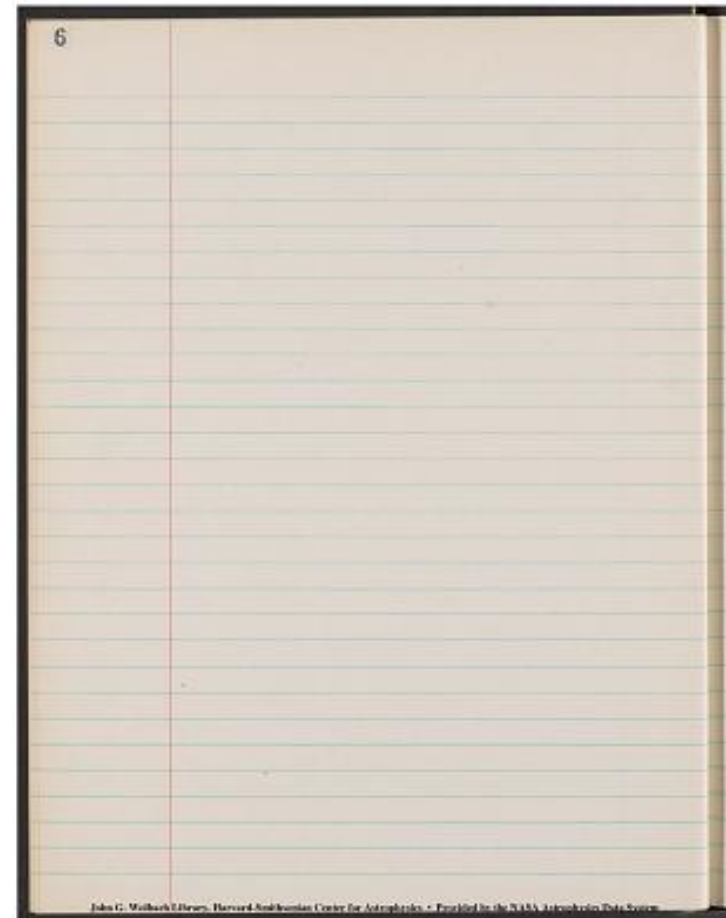
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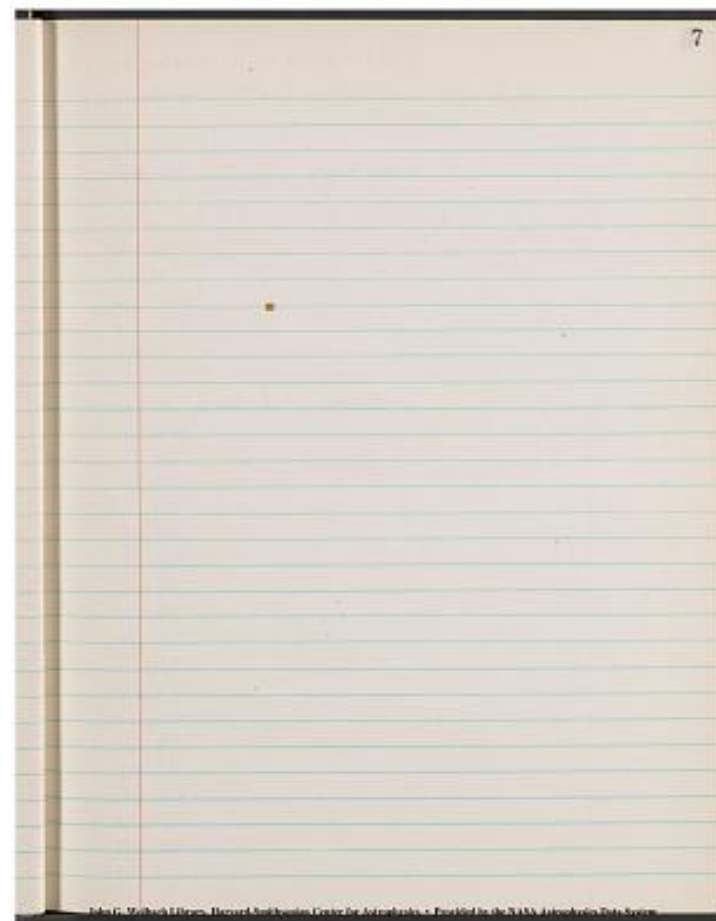
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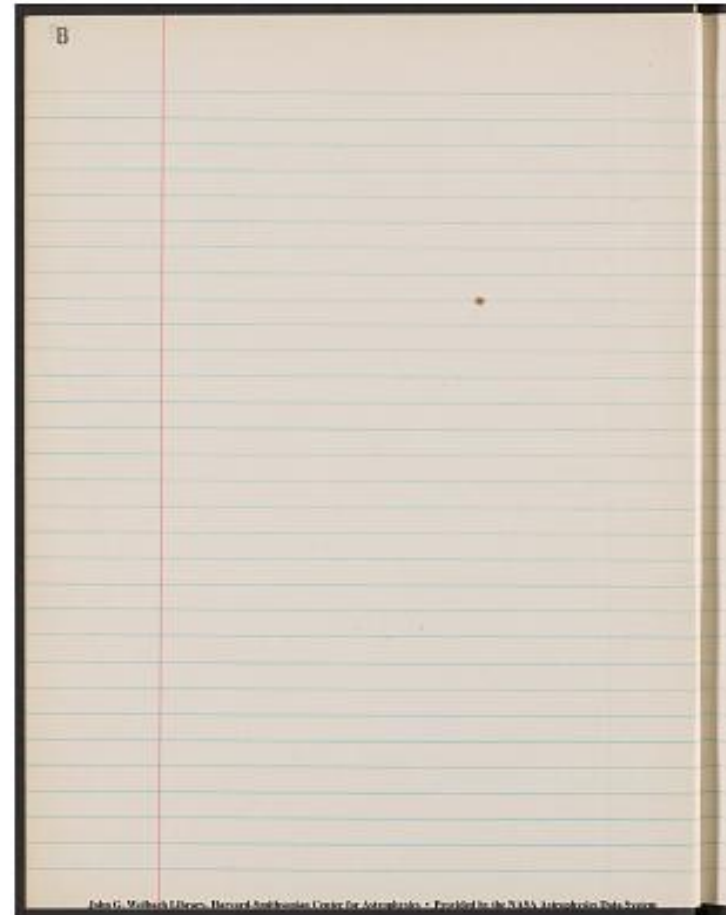
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MF 35945 $3^{\text{h}}00 - 57.5^{\text{m}}$
 Charts 10964E, 12337 A, B, C, D, E

10964E \wedge rd[?] chart = black plate

[[2 columned table]]

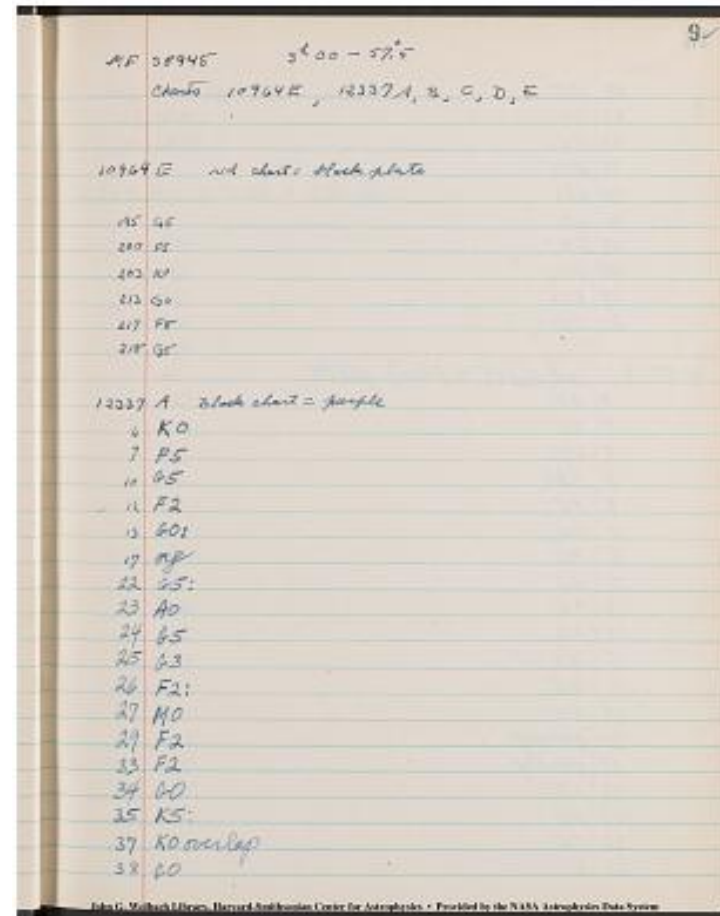
195	G5
200	F5
203	K0
213	G0
217	F8
218	G5

12337 A Black chart = purple

[[2 columned table]]

6	K0
7	F5
10	G5
12	F2
13	G0
17	n[?]
22	G5
23	A0
24	G5
25	G3
26	F2
27	M0
29	F2
33	F2
34	G0
35	K5
37	K0 overlap
38	G0

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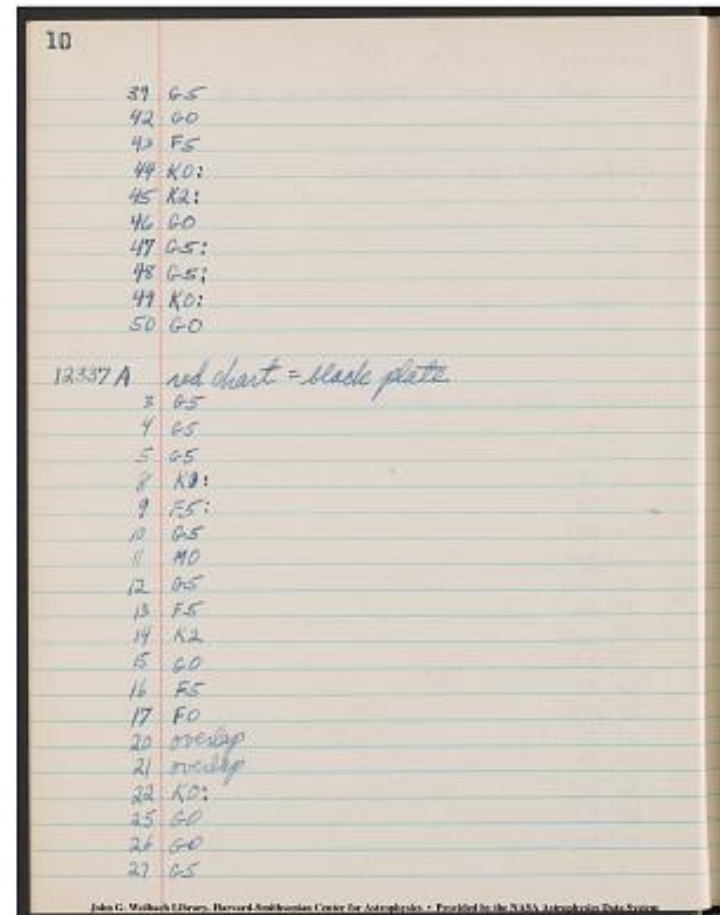
10
 [[2 column table]]
 --- | ---

39	G5
42	G0
43	F5
44	K0:
45	K2:
46	G0
47	G5:
48	G5:
49	K0:
50	G0

12337 A red chart = black plate
 [[2 columned table]]

3	G5
4	G5
5	G5
8	K0:
9	F5:
10	G5
11	M0
12	G5
13	F5
14	K2
15	G0
16	F5
17	F0
20	overlap
21	overlap
22	K0:
25	G0
26	G0
27	G5

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11

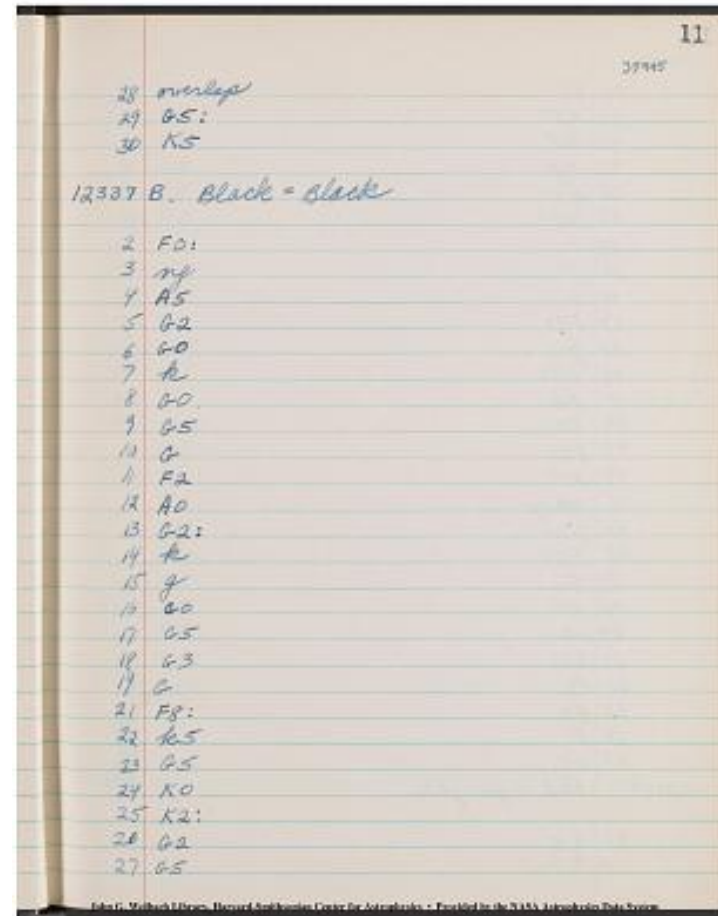
35945

28 overlap
29 G5:
30 K5

12337 B. Black = Black

2 F0:
3 n[[?]]
4 A5
5 G2
6 G0
7 k
8 G0
9 G5
10 G
11 F2
12 A0
13 G2:
14 k
15 g
16 G0
17 G5
18 G3
19 G
21 F8:
22 k5
23 G5
24 K0
25 K2:
26 G2
27 G5

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12

28|KO
 29|G5
 30|G5
 31|n [[?]]
 32|AO
 33|GO
 34|
 35|
 36|
 37|FO:
 38|gO
 39|G5:
 41|F8
 42|K5:
 43|FO:
 44|K5:
 45|[[~~]]K2[[~~]] [[ns?]]
 46|GO:
 47|F5:
 54|F
 55|GO
 59|G2:
 61|GO:
 62|F2
 63|F5
 64|F:
 65|G5
 12337B |Red=purple~~~~

33|g5
 34|GO:

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12

28 KO
 29 G5
 30 G5
 31 n
 32 AO
 33 GO
 34 -
 35 -
 36 -
 37 FO:
 38 gO
 39 G5:
 41 F8
 42 K5:
 43 FO:
 44 K5:
 45 ~~]]K2[[~~]] [[ns?]]
 46 GO:
 47 F5:
 54 F
 55 GO
 59 G2:
 61 GO:
 62 F2
 63 F5
 64 F:
 65 G5
 12337B Red=purple
 33 g5
 34 GO:~~~~

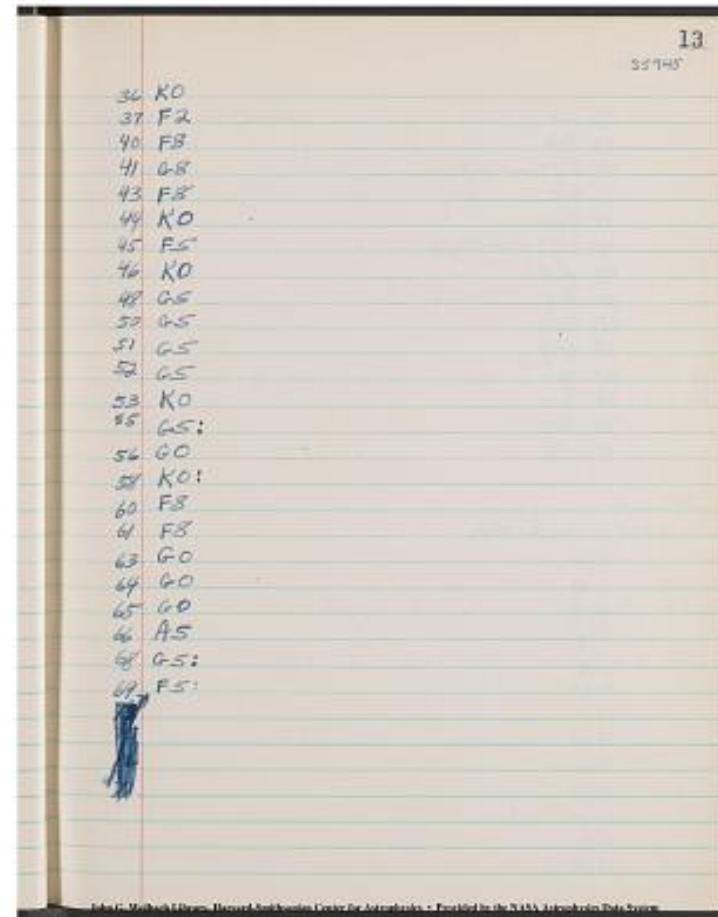
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13
35945
[[2 column table]]
---|---

36	K0
37	F2
40	F8
41	G8
43	F8
44	K0
45	F5
46	K0
48	G5
50	G5
51	G5
52	G5
53	K0
55	G5:
56	G0
58	K0:
60	F8
61	F8
63	G0
64	G0
65	G0
66	A5
68	G5:
69	F5:

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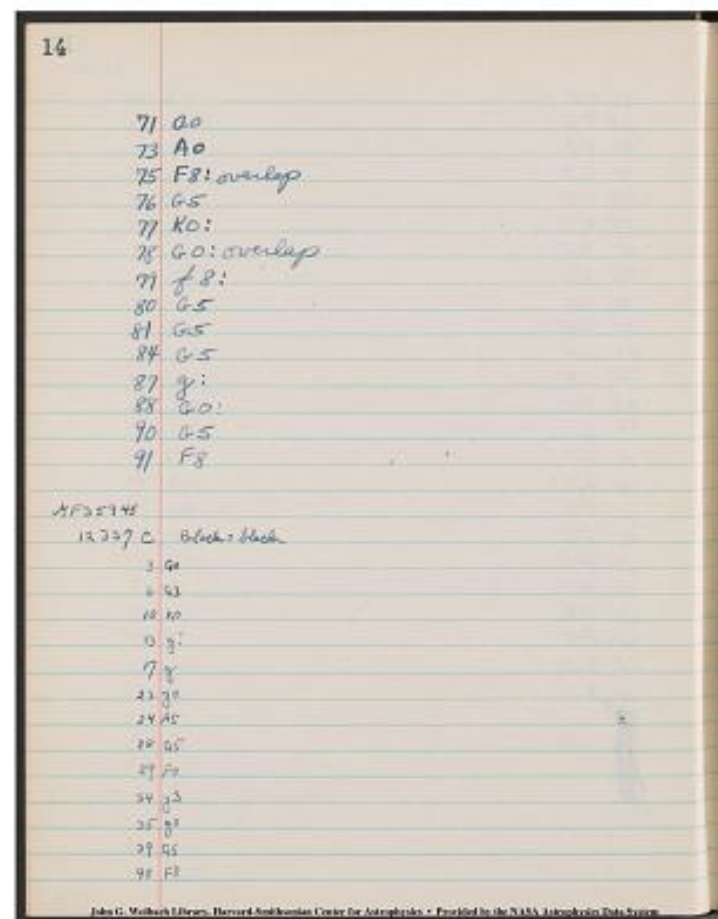
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14

71 G0
73 A0
75 F8: overlap
76 G5
77 KO:
78 GO: overlap
79 f8:
80 G5
81 G5
84 G5
87 g:
88 GO:
90 G5
91 F8

MF35945
12337C Black = black
3 G0
6 G3
10 K0
13 g?
17 g
23 go
24 A5
28 G5
29 Fo
34 g3
35 go
39 G5
40 F0

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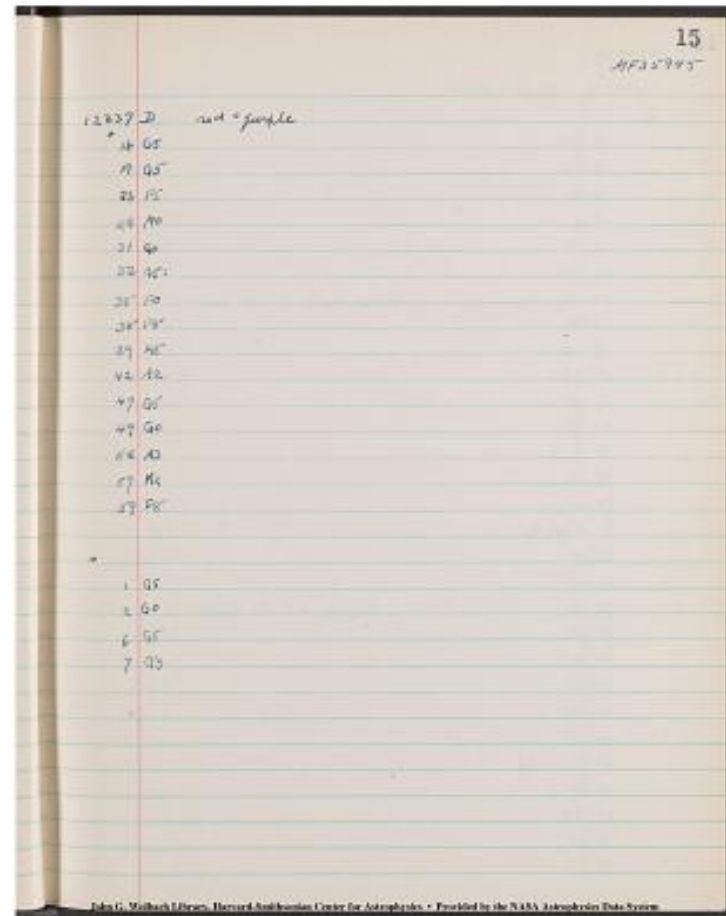


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15
MF35945

12337 D red = purple
[[2 column table]]

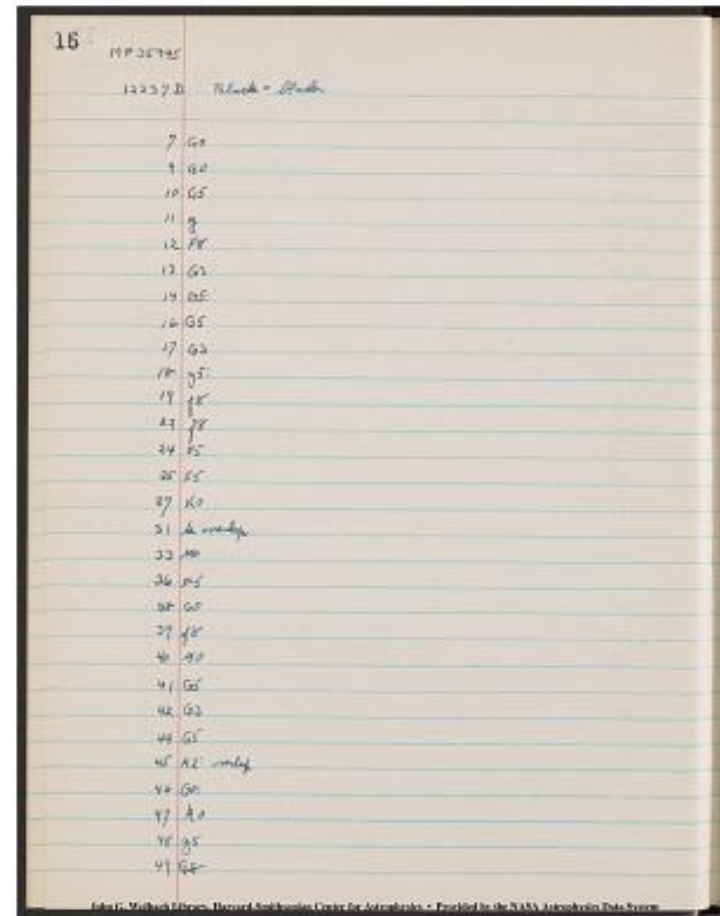
---	---
*18	G5
19	G5
23	F5
24	M0
31	G0
32	G5:
35	F0
38	F8
39	K5
42	A2
47	G5
49	G0
54	A3
57	K2
59	F8
1	G5
2	G0
6	G5
7	G3



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16
MF35945

[[2 column table]]
12337D	Black = black
7 | G0 |
9 | G0 |
10 | G5 |
11 | g |
12 | F8 |
13 | G3 |
14 | G5: |
16 | G5 |
17 | G3 |
18 | g5: |
19 | f8 |
22 | f8 |
24 | F5 |
25 | F5 |
27 | K0 |
31 | k overlap |
33 | M0 |
36 | F5 |
38 | G0 |
39 | f8 |
40 | M0 |
41 | G5 |
42 | G3 |
44 | G5 |
45 | K2: overlap |
46 | G0: |
47 | K0 |
48 | g5 |
49 | G8 |



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17

[[2 column table]]

---	---
52	G5
53	g
54	K0
55	G0
56	G0
57	G5

[[2 column table]]

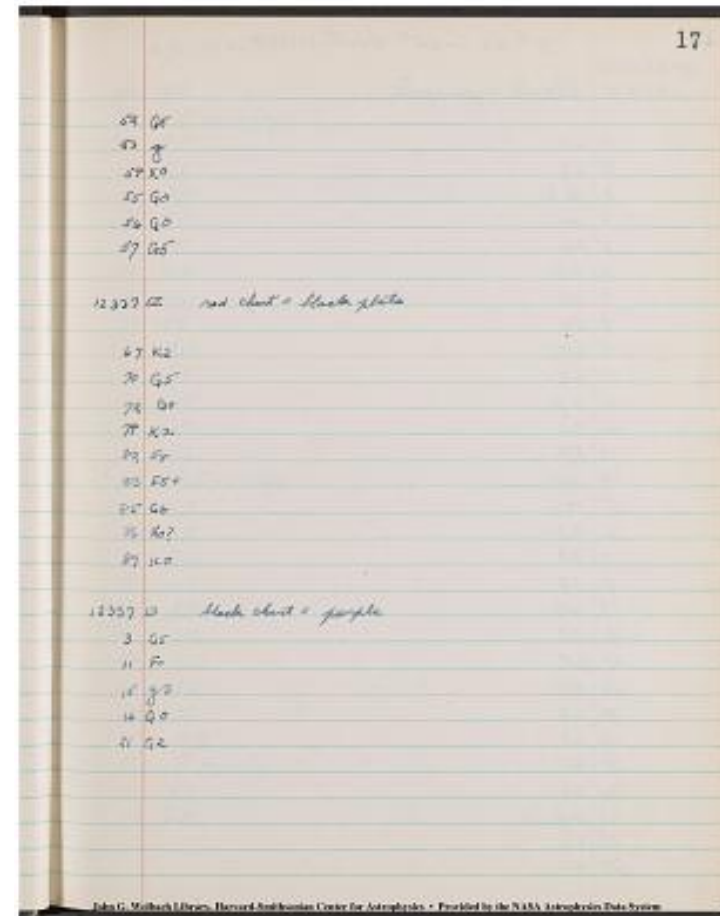
12337E | red chart = black plate |

---	---
67	K2
70	G5
72	G0
74	K2
82	F8
83	F5+
85	G8
86	K0?
89	K0

[[2 column table]]

12337E | black chart = purple |

---	---
3	G5
11	F0
15	g3
16	G0
21	G2

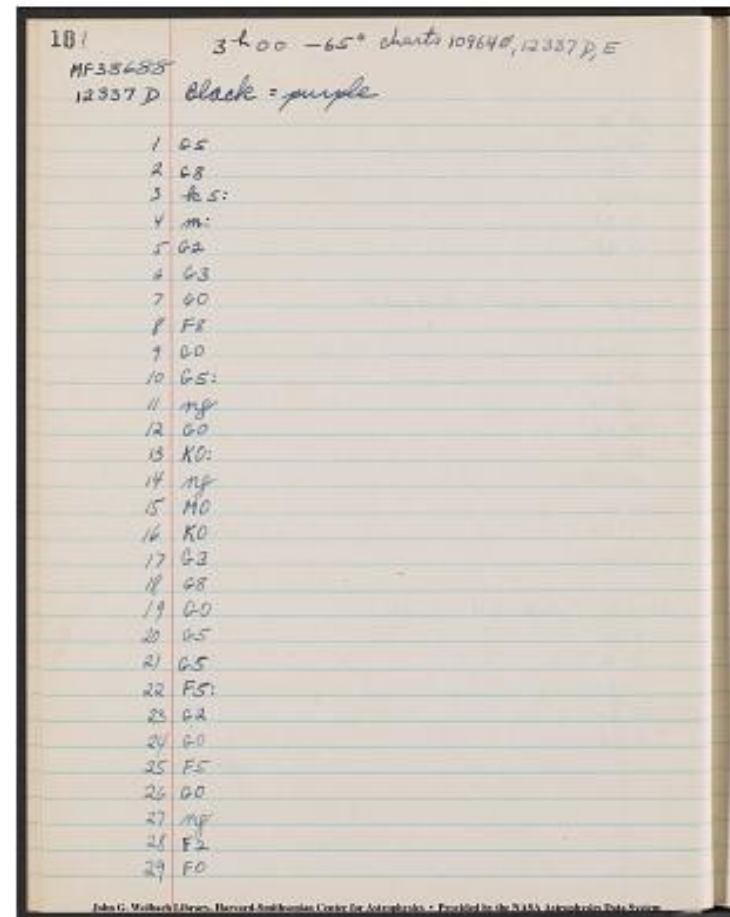


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18. 3h00 -65 (degrees) charts 10964 E, 12337 D, E
 MF38688
 12337 D Black = purple

1. G5
2. G8
3. K5:
4. M:
5. G2
6. G3
7. G0
8. F8
9. G0
10. G5:
11. N[[?]]
12. G0
13. K0:
14. N[[?]]
15. M0
16. K0
17. G3
18. G8
19. G0
20. G5
21. G5
22. F5:
23. G2
24. G0
25. F5
26. G0
27. N[[?]]
28. F2
29. F0

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[[2 column table]]

---	---
30	F8
31	G5: overlap
32	G5
33	K2
34	F8
35	G0
36	F5
37	G5
38	G0:
39	F8
40	M0
41	G3
42	G0
43	G5
44	K2:
45	k5 overlap
46	G5
47	G5
48	G2
49	K0:
50	F8:
51	G2
52	G2
53	F2:
54	K
55	G2
56	F overlap
57	K0:
58	G5:

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30	F8
31	G5: overlap
32	G5
33	K2
34	F8
35	G0
36	F5
37	G5
38	G0:
39	F8
40	M0
41	G3
42	G0
43	G5
44	K2:
45	k5 overlap
46	G5
47	G5
48	G2
49	K0:
50	F8:
51	G2
52	G2
53	F2:
54	K
55	G2
56	F overlap
57	K0:
58	G5:

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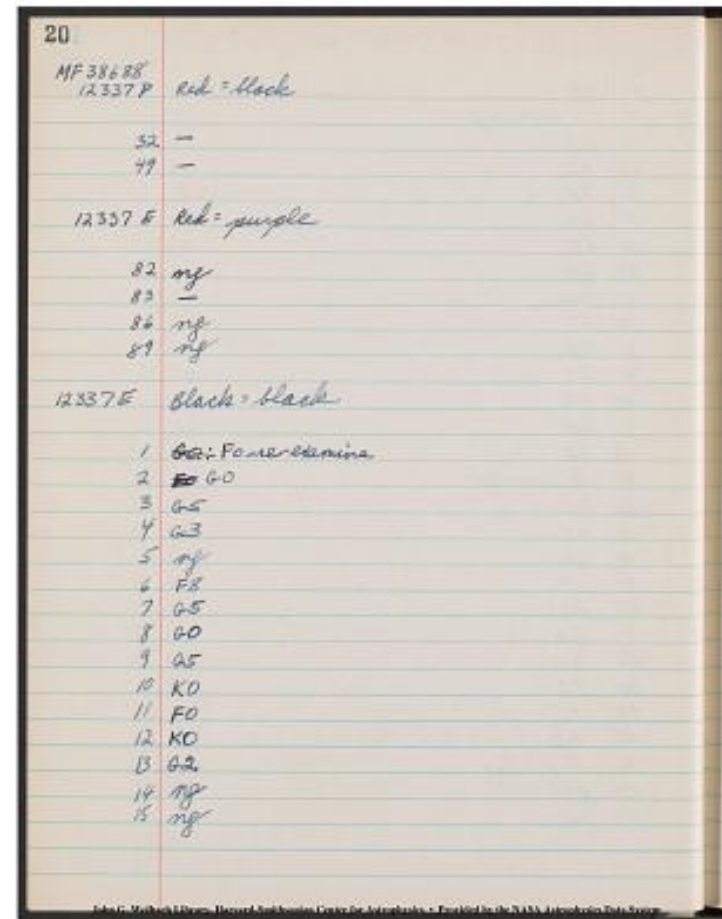
20
MF38688

[[2 column table]]
12337P	red = black
32 | - |
49 | - |

[[2 column table]]
12337E	red = purple
82 | ng |
83 | - |
86 | ng |
89 | ng |

[[2 column table]]
12337E	Black = black
1 | ~~[[strikethrough]]G0:[[/strikethrough]]~~ Fo = re-examine |
2 | ~~[[strikethrough]]F0[[/strikethrough]]~~ G0 |
3 | G5 |
4 | G3 |
5 | n [[?]] |
6 | F8 |
7 | G5 |
8 | G0 |
9 | G5 |
10 | K0 |
11 | F0 |
12 | K0 |
13 | G2 |
14 | ng |
15 | ng |

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[[2 Columned Table]]

16	g0
17	ng
18	A0
19	G0
20	F5:
21	g
22	G5
23	F8:
24	k, ng
25	K2
26	G5:
27	overlap
28	G5:
29	F5:
30	G0:
31	K5:: ng
32	G5:
33	g
34	-
35	G0:
36	K5: K0:
37	K2:
38	ng
39	A3
40	k, ng
41	ng
42	ng

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16	g0
17	ng
18	A0
19	G0
20	F5:
21	g
22	G5
23	F8:
24	k, ng
25	K2
26	G5:
27	overlap
28	G5:
29	F5:
30	G0:
31	K5:: ng
32	G5:
33	g
34	-
35	G0:
36	K5: K0:
37	K2:
38	ng
39	A3
40	k, ng
41	ng
42	ng

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22

MF38688
1064 E Black = black

[[2 Columned Table]]

---	---
52	g5, ng
54	[[/strickethrough]] G5 [[/strickethrough]] G5
55	m:
56	K5:
57	G0, ng
58	f8
59	g5
60	ng
61	G0
62	g5
63	g0:
64	fe:
65	overlap
66	k, ng
67	g
68	k0
69	g5
70	k5:
71	F8
72	G0
73	A5:
74	ng
75	G0
76	overlap
77	G0
78	G5

22	
MF38688	
1064 E	Black = black
52	g5, ng
54	g5 G5
55	m:
56	K5:
57	G0, ng
58	f8
59	g5
60	ng
61	G0
62	g5
63	g0:
64	fe:
65	overlap
66	k, ng
67	g
68	k0
69	g5
70	k5:
71	F8
72	G0
73	A5:
74	ng
75	G0
76	overlap
77	G0
78	G5

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MF38688 23

MF36614

[[2 Columned Table]]

---	---
79	F2
80	G0
81	G3
82	G5
83	F2
84	F5

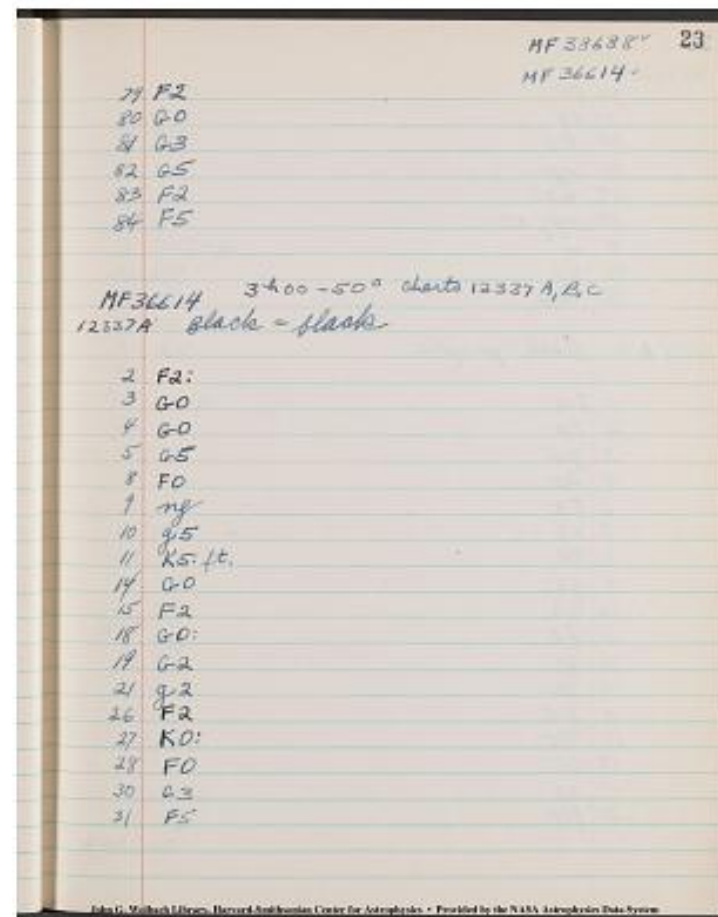
MF36614 3h00-50[degree sign] charts 12337 A, B, C

12337A Black = black

[[2 Columned Table]]

---	---
2	F2:
3	G0
4	G0
5	G5
8	F0
9	ng
10	g5
11	K5: ft
14	G0
15	F2
18	G0:
19	G2
21	g2
26	F2
27	K0:
28	F0
30	G3
31	F5

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24
MF36614
[[2 Columned Table]]

---	---
32	F5
33	F2
35	k0
36	ng
39	G5:
40	K0
41	ng
45	K2
48	k2

| 12337 B | Black = purple

1	G5
2	F2
3	g5
4	A0
6	F8:
7	K0
8	F8
9	g5:
10	G2
11	f0
13	g
14	m:
15	f5
17	G5
18	G5:
19	G2
20	M0

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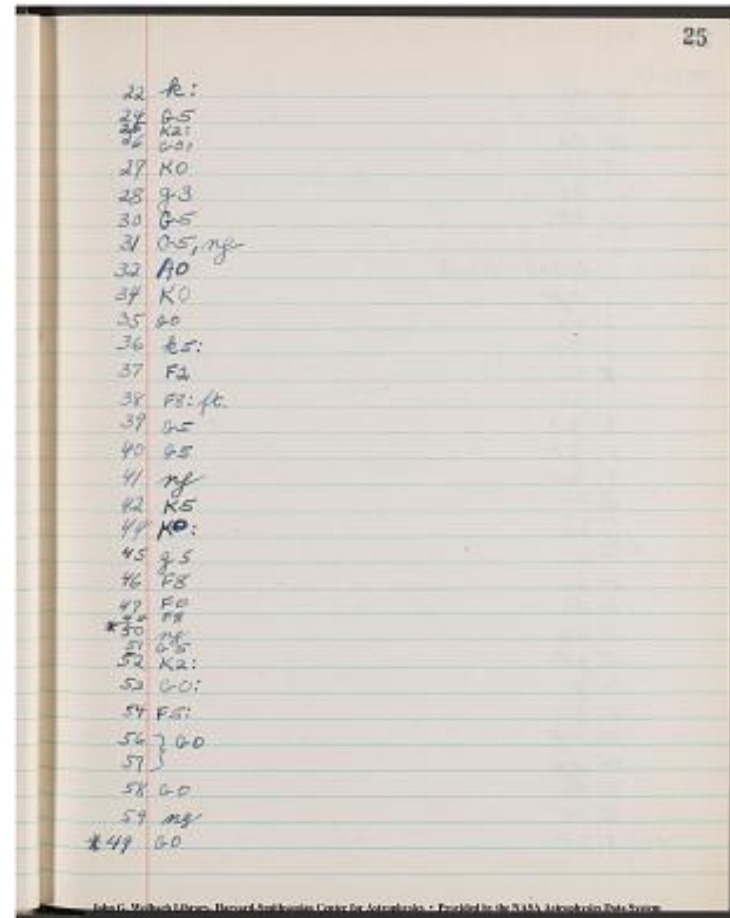
24	
MF36614	
32	F5
33	F2
35	K0
36	ng
39	G5:
40	K0
41	ng
45	K2
48	K2
12337 B	Black = purple
1	G5
2	F2
3	g5
4	A0
6	F8:
7	K0
8	F8
9	g5:
10	G2
11	f0
13	g
14	m:
15	f5
17	G5
18	G5:
19	G2
20	M0

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25
[[2 columned table]]

22	k:
24	G5
25	K2:
26	G0:
27	K0
28	g3
30	G5
31	G5,ng
32	A0
34	K0
35	G0
36	k5:
37	F2
38	F8:ft.
39	G5
40	G5
41	ng
42	K5
44	K0:
45	g5
46	F8
47	F0
48	F8
49	^[[*]]
50	ng
51	G5
52	K2:
53	G0:
54	F5:
56	G0
57	G0
58	G0
59	ng
49	G0

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MF36614

[[2 Columned Table]]

---	---
60	nz
61	G0
64	F8
65	G0:
66	F8
67	K0:

12337C | Black = black |

1	nz
2	K0:
3	G0
5	G0
6	g0
7	g3
8	g0
9	G0:
12	G2
14	G2
16	F8:

^[[*—]]

19	G5:
20	G5
21	F2
22	G2
25	g5
26	g
27	g0
30	ng
32	ng
33	k
36	G5

^[[*—]]18 | G5: |

26	
MF36614	
60	ng
61	G0
64	F8
65	G0:
66	F8
67	K0:
12337 C	Black = black
1	ng
2	K0:
3	G0
5	G0
6	g0
7	g3
8	g0
9	G0:
12	G2
14	G2
16	F8:
* 19	G5:
20	G5
21	F2
22	G2
25	g5
26	g
27	g0
30	ng
32	ng
33	k
36	G5
* 18	G5:

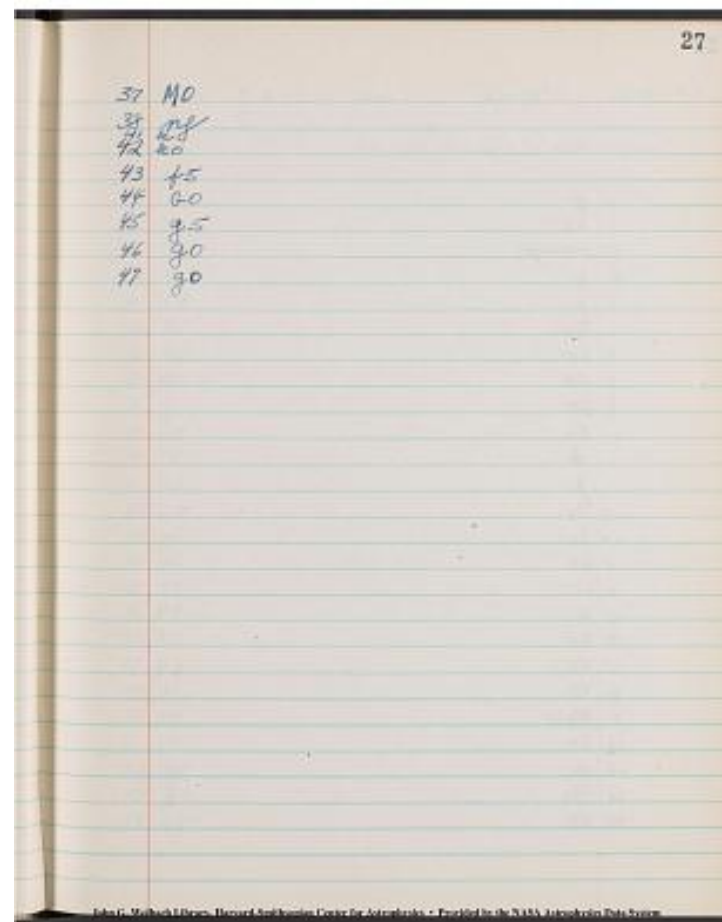
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27

[[2 Columned Table]]

---	---
37	M0
38	ng
41	k
42	k0
43	f5
44	G0
45	g5
46	g0
47	g0

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28

MF38763
3h20 -55[[degree sign]]
Charts 12337B,C.

12337C | black chart = purple Nos.1-98
[[2 Columned Table]]

1	g
2	K2:
3	overlap
4	g
5	g
6	G2
7	G5:
8	G0
9	G0:
10	K2
11	k
12	g
13	F5
14	G2:
15	G0
16	G0
17	G
18	G5
19	K0:
20	K0
21	F0 A5
22	G0
23	g
24	A2
25	K0:

28

MF38763 3h20 -55° Charts 12337B,C.

12337C black chart = purple Nos.1-98

1	g
2	K2:
3	overlap
4	g
5	g
6	G2
7	G5:
8	G0
9	G0:
10	K2
11	k
12	g
13	F5
14	G2:
15	G0
16	G0
17	G
18	G5
19	K0:
20	K0
21	F0, A5
22	G0
23	g
24	A2
25	K0:

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[[2 Columned Table]]

26	k:
27	k
28	K3:
29	G0
30	g0
31	F0
32	F5:
33	K2:
34	F5
35	F5
36	K0
37	M0
38	g
39	G5
40	F2:
41	G5
42	G5
43	f
44	G0
45	K0
46	F8
47	F8
48	G2
49	K
50	F8
51	G0
52	ng
53	g
54	G5

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26	k:
27	k
28	K3:
29	G0
30	g0
31	F0
32	F5:
33	K2:
34	F5
35	F5
36	K0
37	M0
38	g
39	G5
40	F2:
41	G5
42	G5
43	f
44	G0
45	K0
46	F8
47	F8
48	G2
49	K
50	F8
51	G0
52	ng
53	g
54	G5

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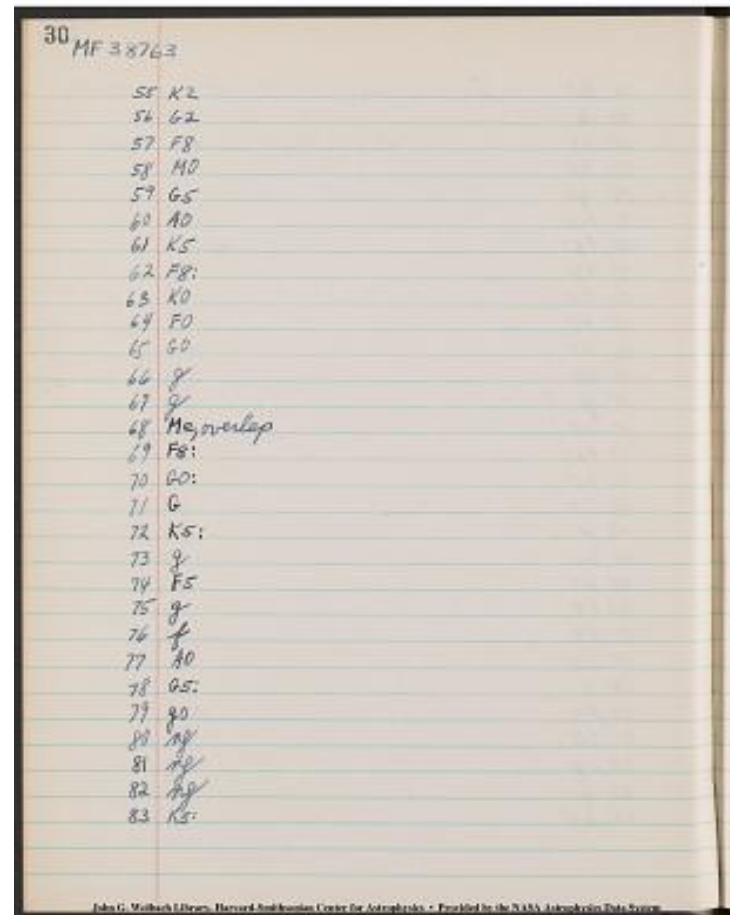
30

MF 38763

[[2 Columned Table]]

---	---
55	K2
56	G2
57	F8
58	M0
59	G5
60	A0
61	K5
62	F8:
63	K0
64	F0
65	G0
66	g
67	g
68	Me, overlap
69	F8:
70	G0:
71	G
72	K5:
73	g
74	F5
75	g
76	f
77	A0
78	G5:
79	g0
80	ng
81	ng
82	ng
83	K5:

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[[2 columned table]]

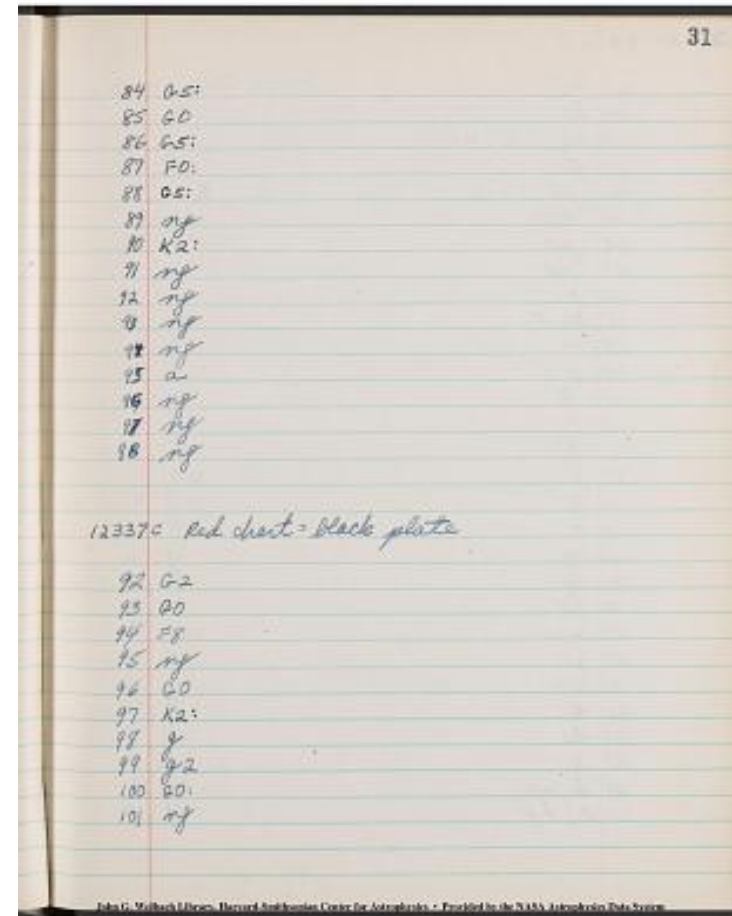
---	---
84	G5:
85	G0
86	G5:
87	F0:
88	G5:
89	ng
90	K2:
91	ng
92	ng
93	ng
94	ng
95	a
96	ng
97	ng
98	ng

12337C Red chart = black plate

[[2 Columned Table]]

---	---
92	G2
93	G0
94	F8
95	ng
96	G0
97	K2:
98	g
99	g2
100	G0:
101	ng

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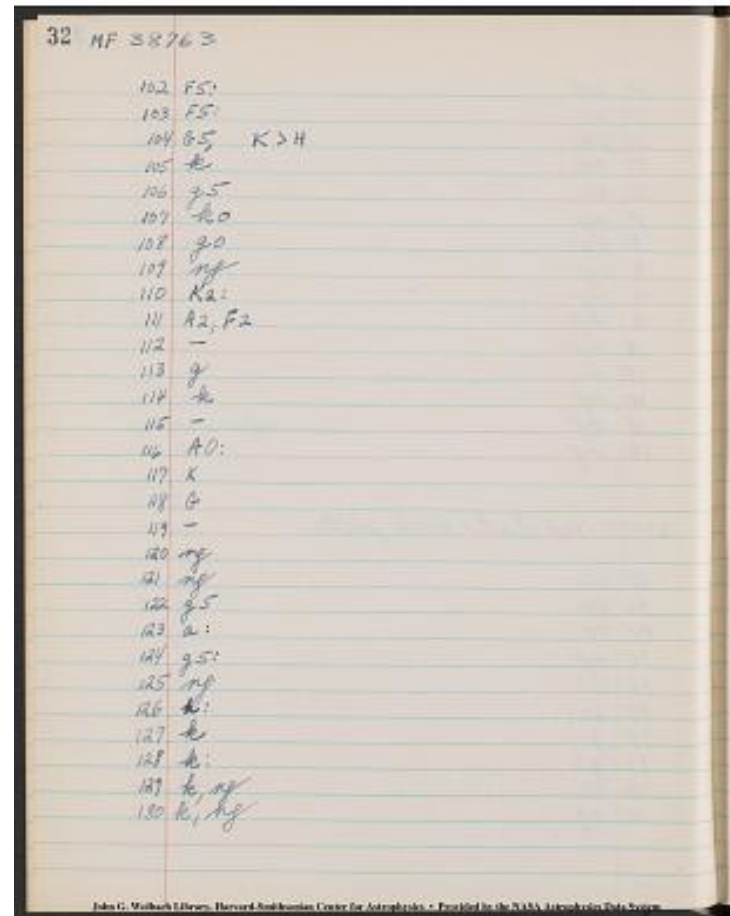
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32
MF 38763

[[2 columned table]]

102	F5:
103	F5:
104	G5, K>H
105	k
106	g5
107	ko
108	go
109	ng
110	K2:
111	A2, F2
112	-
113	g
114	k
115	-
116	A0:
117	K
118	G
119	-
120	ng
121	ng
122	g5
123	a:
124	g5:
125	ng
126	k:
127	k
128	k:
129	k, ng
130	k, ng

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12337B Both Black
[[2 Columned Table]]

5	g:
6	f:
7	k
8	g
9	overlap
10	ng
11	f
12	A0
13	g
14	k5
15	f0
16	g0
17	k5
18	g0
19	g0
20	M0
21	f
22	K
23	K
24	M0:
25	K5
26	f
27	K2:
28	G2
29	G3
30	G2:
31	K:

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12337B Both Black

5	g:
6	f:
7	k
8	g
9	overlap
10	ng
11	f
12	A0
13	g
14	k5
15	f0
16	g0
17	k5
18	g0
19	g0
20	M0
21	f
22	K
23	K
24	M0:
25	K5
26	f
27	K2:
28	G2
29	G3
30	G2:
31	K:

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34
MF 38763

[[2 columned table]]

32	A0
33	G0
34	k
35	g
36	g5
37	G5 (compos?)
38	G0
40	G5
41	K0
42	K3:
43	f
44	k
45	k:
46	F8
47	F5
48	F8
49	G2
50	g
51	K0
52	K2:
53	G2:
54	g
55	G3
56	G5:
57	G5:
58	G0:
59	G0
60	K5: overlap
61	G2

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34. MF 38763

32	A0
33	G0
34	k
35	g
36	g5
37	G5 (compos?)
38	G0
40	G5
41	K0
42	K3:
43	f
44	k
45	k:
46	F8
47	F5
48	F8
49	G2
50	g
51	K0
52	K2:
53	G2:
54	g
55	G3
56	G5:
57	G5:
58	G0:
59	G0
60	K5: overlap
61	G2

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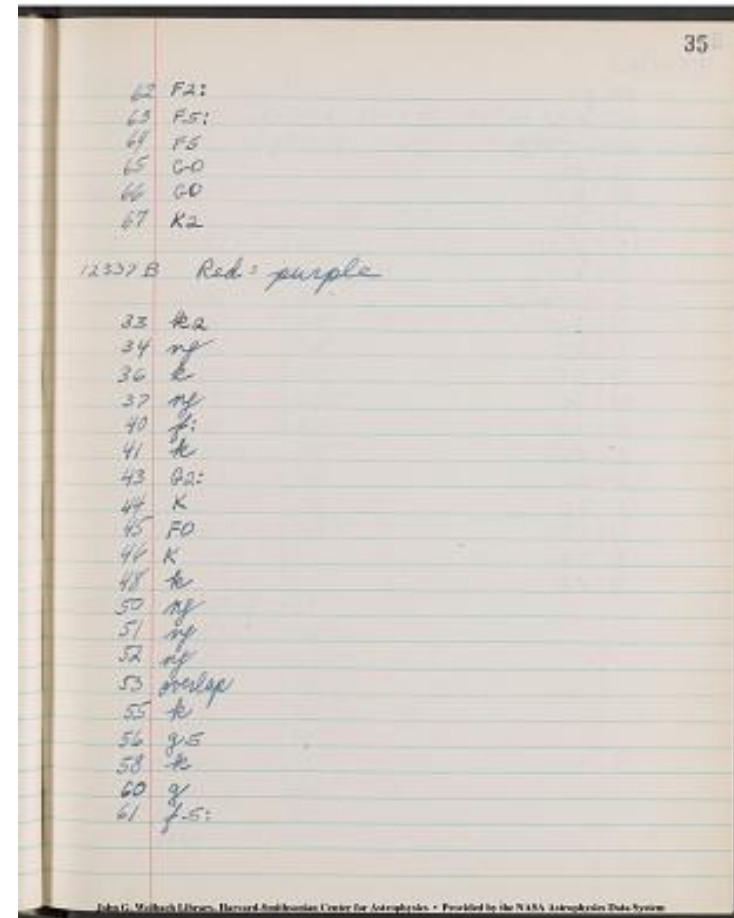
35

[[2 columned table]]

62	F2:
63	F5:
64	F5:
65	G0
66	G0
67	K2

12337B Red = purple

33	k2
34	ng
36	k
37	ng
40	f:
41	k
43	G2:
44	K
45	F0
46	K
48	k
50	ng
51	ng
52	ng
53	overlap
55	k
56	g5
58	k
60	g
61	f5:

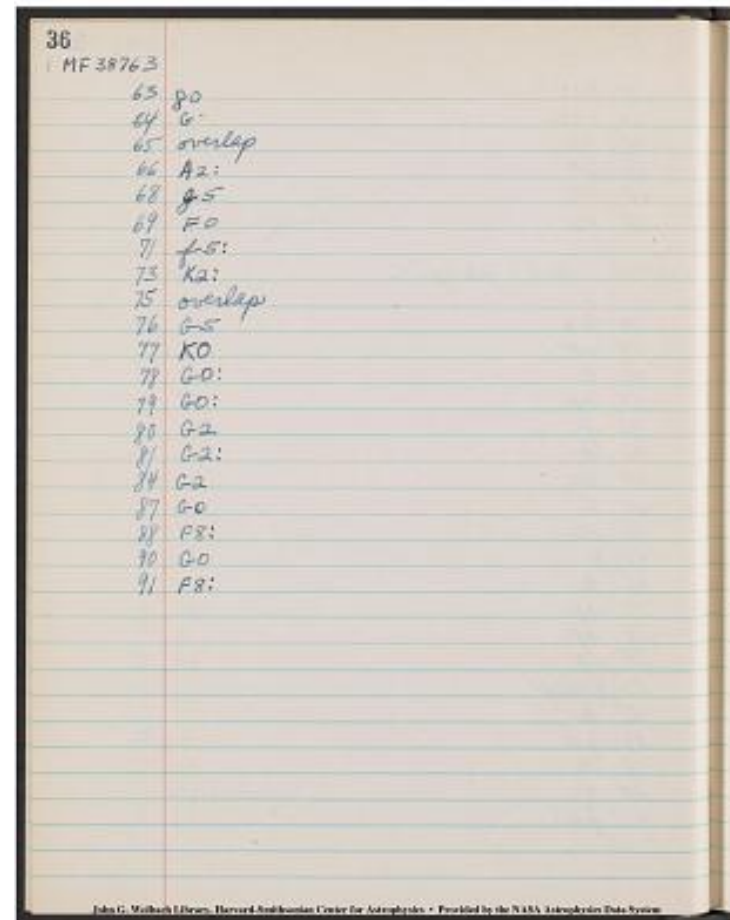


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36
MF38763

[[2 columned table]]

---	---
63	80
64	G
65	overlap
66	A2:
68	g5
69	F0
71	f5:
73	K2:
75	overlap
76	G5
77	K0
78	G0:
79	G0:
80	G2
81	G2:
84	G2
87	G0
88	F8:
90	G0
91	F8:



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^[[20 Apr. 51]]
37

MF 35737 23^[[h]]00-57.5^[[°]]
Charts 14733 A, 14733 D, -52^[[°]] No92, -58^[[°]] No92(55-58^[[°]])
-58^[[°]] No92(58-61^[[°]]), -64 No78, -64 No76 (corner)

-52^[[°]] No92
[[2 Columned Table]]

10118	F8
10125	G0
10132	G0
10142	G3
10146	F5
10155	F5
10157	G5:
10162	F5
10163	F8
10184	F8
10362	F2
10388	G0

-58^[[°]] No92 centered -56^[[°]]
[[2 Columned Table]]

9873	G5
9875	G5
9877	F2
9879	G5
9881	F8
9894	F2
9912	K5
9911	F2
9939	F5

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MF 35737 23^h 00-57.5^m
charts 14733 A, 14733 D, -52^° No92, -58^° No92(55-58^°),
-58^° No92(58-61^°), -64 No78, -64 No76 (corner)

-52^° No92

10118	F8
10125	G0
10132	G0
10142	G3
10146	F5
10155	F5
10157	G5:
10162	F5
10163	F8
10184	F8
10362	F2
10388	G0

-58^° No92 centered -56^°

9873	G5
9875	G5
9877	F2
9879	G5
9881	F8
9894	F2
9912	K5
9911	F2
9939	F5

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38
 MF 35737
 [[3 columned table]]
 No92 | -56° -57° |
 --- | --- | ---
 9929 | G0 |
 31 | F2 |
 34 | G3 |
 35 | G5 |
 36 | F0, 4172 |
 40 | F5 |
 46 | F8 |
 48 | G5 |
 50 | F2 |
 56 | G5 |
 57 | K0 |
 63 | G0 |
 68 | G5: 4227 |
 69 | F5 |
 70 | F5 |
 71 | K0 |
 73 | G5 |
 75 | K0 |
 84 | G2: |
 83 | G0 |
 Chart 14733A, red 92 | 94 | G5 |

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38	
MF 35737	
N. 92	-56° -57°
9929	G0
31	F2
34	G3
35	G5
36	F0, 4172
40	F5
46	F8
48	G5
50	F2
56	G5
57	K0
63	G0
68	G5: 4227
69	F5
70	F5
71	K0
73	G5
75	K0
84	G2:
83	G0
Chart 14733A, red 92	<u>94</u> <u>G5</u>

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[[3 columned table]]
 | -57^[[°]] -58^[[°]] | |

10111	K0
112	K0
117	F2
119	F8
126	G5
128	F5
130	F5
131	G5
133	A0: overlap
145	G5
147	G5
150	overlap
151	overlap
152	G5
155	G0
156	G5
163	G3
168	F5
171	K5
175	G2

Chart 14733A red 89 | 185 | G0 |
 Chart 14733A red 90 | 187 | K0 |
 Chart 14733A red 97 | 197 | F8 |

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39

-57°-58°

10111	K0
112	K0
117	F2
119	F8
126	G5
128	F5
130	F5
131	G5
133	A0: overlap
145	G5
147	G5
150	overlap
151	overlap
152	G5
155	G0
156	G5
163	G3
168	F5
171	K5
175	G2
<u>185</u>	G0
<u>187</u>	K0
<u>197</u>	F8

Chart 14733A red 89 | 185 | G0 |
 Chart 14733A red 90 | 187 | K0 |
 Chart 14733A red 97 | 197 | F8 |

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40
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-58° NO92 centered-60°
-58°-59°

[[3 columned table]]

---	---	
7980	F5	
82	G2	
83	A2	
85	G5:	
86	K2	
87	k	
88	G5	
89	G2	
90	ng	
91	G5	
92	G5	
94	k	
95	ng	
identify	96	KO
98	G5	
99	G2:	
8002	J	
03	GO	
04	GO	
05	FO	
06	F2	
10	NJ	
11	F2	
12	G,ng	
13	G,ng	
14	FO	
15	F5	

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40	
MF 35737	
-58° NO92	centered -60°
-58°-59°	
7980	F5
82	G2
83	A2
85	G5:
86	K2
87	k
88	G5
89	G2
90	ng
91	G5
92	G5
94	k
95	ng
identify	96
98	KO
99	G5
8002	G2:
03	J
04	GO
05	GO:
06	FO:
10	F2
11	ng
12	F2
13	G,ng
14	G,ng
15	FO
	F5

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[[3 columned table]]

8016	G3:
17	GO
20	F8:
19	K2
22	KO
23	G,Ng
24	G2
25	G5
26	overlap
27	F5:overlap
28	K5
29	ng
30	A5
31	f
32	F8
33	g
34	F8
35	g

chart 14733A red 87 | 35 | g |
 -59[degrees] -60^[^] |

7823	A0
22	F2
25	A5
26	g
27	G5
28	G0
29	g0
31	F0
32	F2
33	G5

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8016	G-3:
17	GO
20	F8:
19	K2
22	KO
23	G,ng
24	G2
25	G-5
26	overlap
27	F5: overlap
28	K5
29	ng
30	A5
31	f
32	F8
33	g
34	F8
35	g
-51°-60°	
7823	A0
22	F2
25	A5
26	g
27	G-5
28	G0
29	g0
31	F0
32	F2
33	G5

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42
MF35737
[[3 Columned Table]]

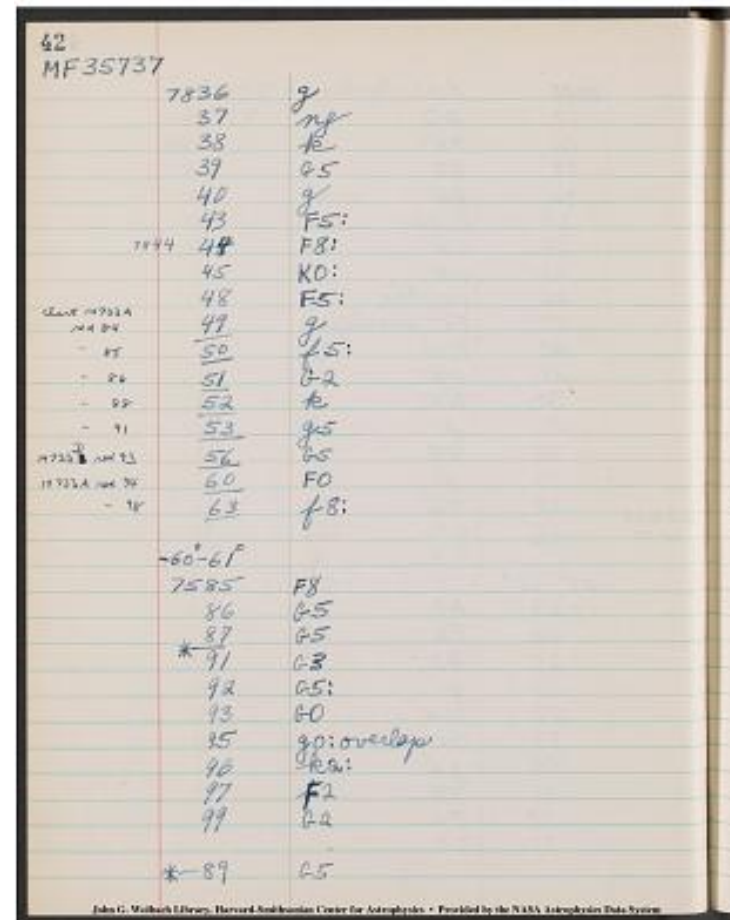
7836	g
37	ng
38	k
39	G5
40	g
43	F5:
^[[7844]] [[/strikethrough]] 48 [[/strikethrough]] 44 F8:	
45	K0:
48	F5:

chart 14733A | |
red 84 | [[/underlined]] 49 [[/underlined]] | g
red 85 | [[/underlined]] 50 [[/underlined]] | f5:
red 86 | [[/underlined]] 51 [[/underlined]] | G2
red 88 | [[/underlined]] 52 [[/underlined]] | k
red 91 | [[/underlined]] 53 [[/underlined]] | g5
14733D red 93 | [[/underlined]] 56 [[/underlined]] | G5
14733A red 94 | [[/underlined]] 60 [[/underlined]] | F0
red 98 | [[/underlined]] 63 [[/underlined]] | f8:

-60^[[°]]-61^[[°]]	
7585	F8
86	G5
87	G5
[[symbol - star]][[symbol: line]]	
91	G3
92	G5:
93	G0
95	g0:overlap
96	k2:
97	F2
99	G2

| [[symbol - star]] [[symbol - line]]89 | G5

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• 43

[[3 Columned Table]]

---	---	---
7601	G5:	
02	G5	
03	G2	
06	F0	
08	G	
11	K5	
12	K0	
14	K2	
15	F5	
16	F5:	
17	k	
18	G2:	
20	G0	
24	F5:	
25	G5:	
26	G2	

Chart 14733 ~~A~~ D | |
black 12 | 30 | G5
red 95 | 31 | g
red 96 | 33 | FO:overexposed

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Handwritten table on lined paper with two columns. The right column contains spectral types, and the left column contains numbers. Some numbers are underlined. There are marginal notes on the left side of the table.

	G5:
7601	G5
02	G5
03	G2
06	F0
08	G
11	K5
12	K0
14	K2
15	F5
16	F5:
17	k
18	G2:
20	G0
24	F5:
25	G5:
26	G2
<u>30</u>	G5
<u>31</u>	g
<u>33</u>	FO:overexposed

Chart 14733
black 12
red 95
red 96

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44

MF35737

[[3 columned table]]

-64^[[°]] NO.76 | -61^[[°]]-62^[[°]] |

6660 | K0:

64 | g

66 | F5

68 | ~~g~~ FO:

69 | g5

71 | G3

73 | G5:overlap

74 | G3

78 | F2

80 | G5

83 | G0

86 | G5

88 | f

92 | G8:

93 | G5

94 | k5:

95 | k

96 | G0:

[[2 columned table]]

--- | ---
-62^[[°]]-63^[[°]] |

6373 | F5

^[[2 stars - marked with same number)]] | 73a | K0

--- | 74 | F2

--- | 75 | G0

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44	
MF 35737	
-64° NO.76	-61°-62°
6660	K0:
64	g
66	F5
68	g FO:
69	g5
71	G3
73	G5:overlap
74	G3
78	F2
80	G5
83	G0
86	G5
88	f
92	G8:
93	G5
94	k5:
95	k
96	G0:
-62°-63°	
6373	F5
73a	K0
74	F2
75	G0

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[[3 Columned Table]]

-64^[[°]] No.78 | |
| -61^[[°]]-62^[[°]] |

6698	F8
6700	F,overlap
01	g
04	g
06	F5:
07	g
08	A2
09	overlap
12	G2
13	G0:
14	F8
15	G0:
17	G2:

| -62^[[°]]-63^[[°]] |

6376	G5-K,overlap
77	F,overlap
80	G5:
82	ng
83	F8:

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45

-L4 No.78
-61°-62°

6698	F8
6700	F,overlap
01	g
04	g
06	F5:
07	g
08	A2
09	overlap
12	G2
13	G0:
14	F8
15	G0:
17	G2:

-62°-63°

6376	G5-K,overlap
77	F,overlap
80	G5:
82	ng
83	F8:

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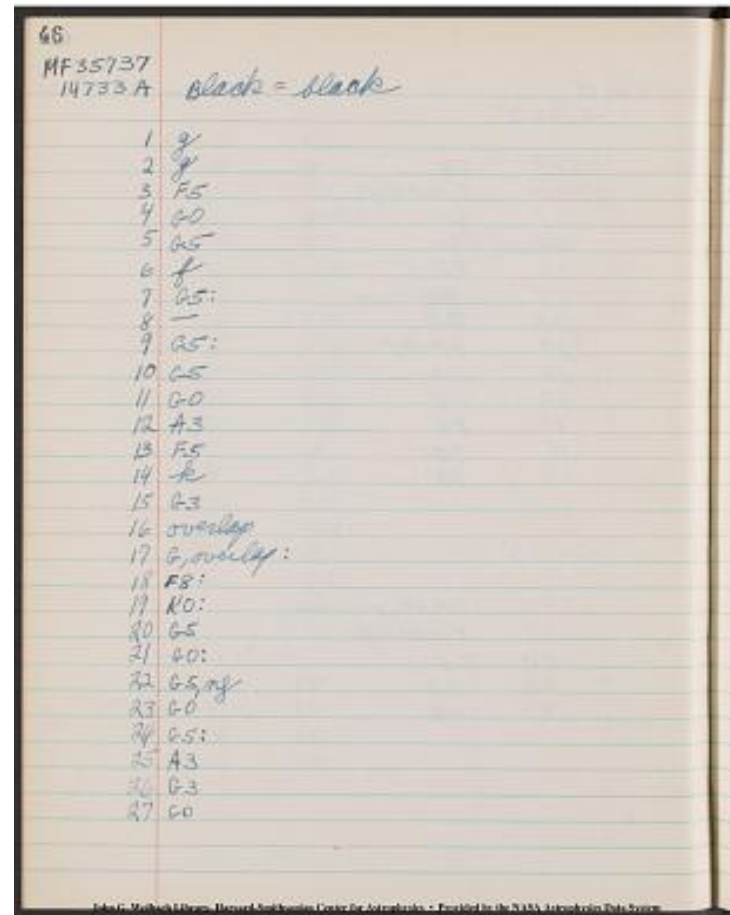
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46

MF35737
14733A
Black = black

1|g|
2|g|
3|F5|
4|G0|
5|G5|
6|f|
7|G5:|
8|—|
9|G5:|
10|G5|
11|G0|
12|A3|
13|F5|
14|K|
15|G3|
16|overlap|
17|G, overlap:|
18|F8:|
19|K0:|
20|G5|
21|G0|
22|G5, ng|
23|G0|
24|G5:|
25|A3|
26|G3|
27|G0|

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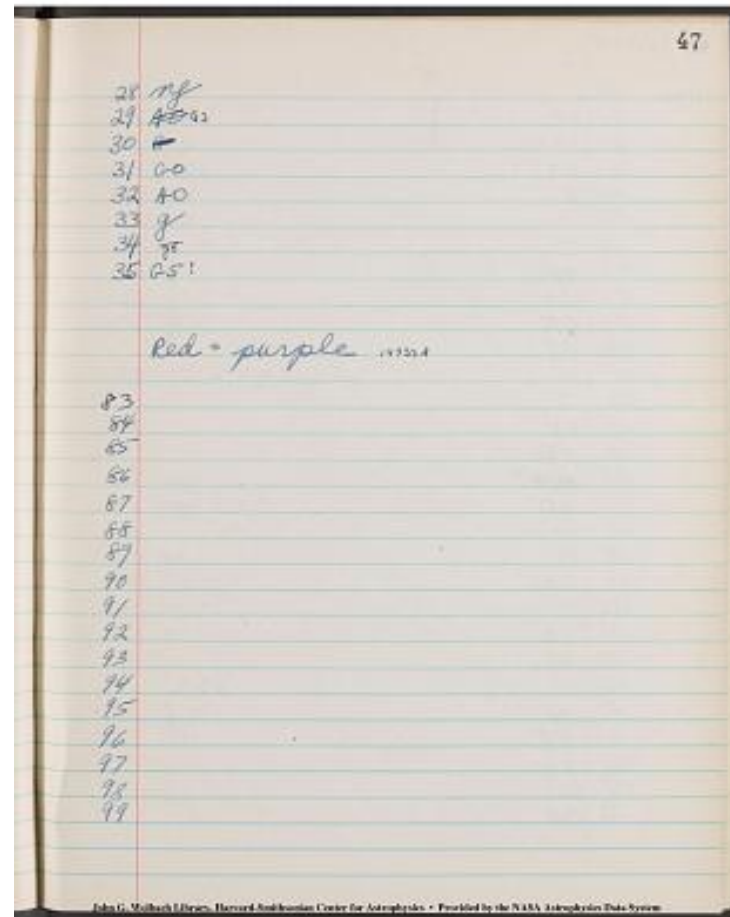
47

28|ng|
 29|~~A0~~|G3|
 30|~~G~~|
 31|G0|
 32|A0|
 33|g|
 34|~~g5~~|
 35|G5|

|Red = purple 14733A

83|
 84|
 85|
 86|
 87|
 88|
 89|
 90|
 91|
 92|
 93|
 94|
 95|
 96|
 97|
 98|
 99|

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48
MF35737

[[2 columned table]]
14733A red 100|

101	G0
102	G2:
103	G5:
104	K
105	—
106	—
107	ng
108	G3
109	F5
110	F8
111	—
112	—
113	F0
114	ng
115	[[strikethrough]]m?[[/strikethrough]]M:
116	G0
117	—
118	—
119	G3
120	—
121	F2
122	G0
123	—
124	ng
125	G8
126	ng
127	G0:
128	G0

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101	G0
102	G2:
103	G5:
104	K
105	—
106	—
107	ng
108	G3
109	F5
110	F8
111	—
112	—
113	F0
114	ng
115	[[strikethrough]]m?[[/strikethrough]]M:
116	G0
117	—
118	—
119	G3:
120	—
121	F2:
122	G0:
123	—
124	ng
125	G8
126	ng
127	G0:
128	G0

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[[2 columned table]]

129	G0
130	F8
131	G3
132	F8
133	A5
134	ng
135	g3
136	g
137	f5
138	g5

| 14733D | red = purple |

93	0	
95		
96	ng	
99	ng	G3
100		
105	g	
106	K5:	
111	F5:	
112	g	
117	g	
118	f5:	
120	g5	
123	F0	

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129	G0
130	F8
131	G3
132	F8
133	A5
134	ng
135	g3
136	g
137	f5
138	g5
14733D red = purple	
93	
95	
96	ng
99	ng G3
100	
105	g
106	K5:
111	F5:
112	g
117	g
118	f5:
120	g5
123	F0

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50
MF35737
[[2 Columned Table]]
14733D | Black = black

1	G3
2	G5:
3	F0
4	g
5	F8:
6	-
7	F5
8	K0:
9	k
10	G2
11	G0
12	G3
13	G5:
14	G5:
15	ng
16	ng
17	A0
18	F8:
19	G,ng
20	F2
22	F8
23	A2,p?
24	f
25	f8:
26	g
27	G2
28	A0

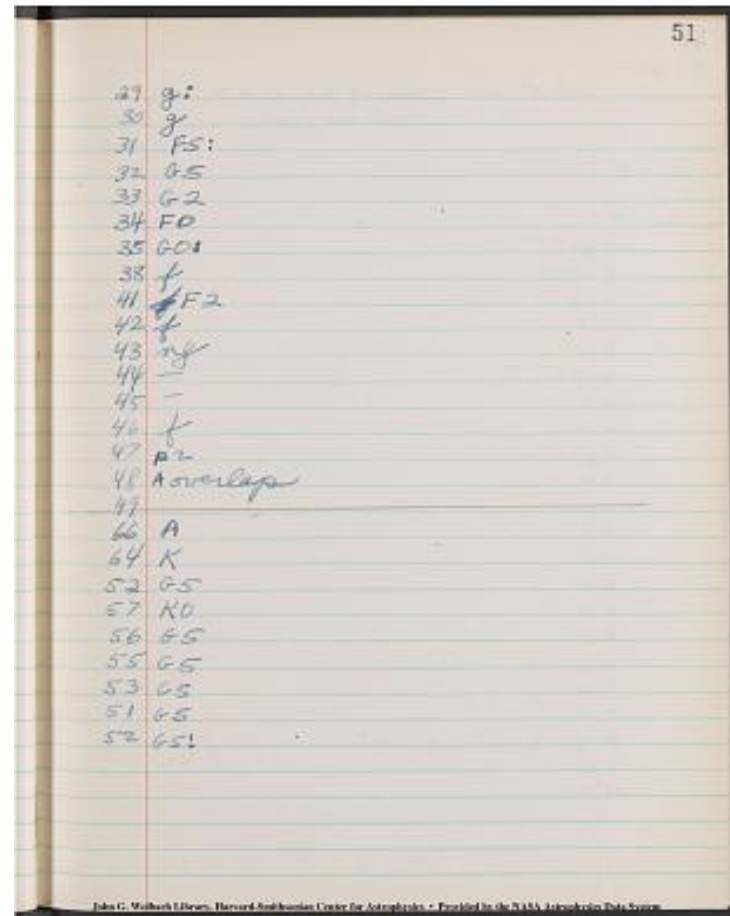
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50	MF35737
14733D	Black = black
1	G3
2	G5:
3	F0
4	g
5	F8:
6	-
7	F5
8	K0:
9	k
10	G2
11	G0
12	G3
13	G5:
14	G5:
15	ng
16	ng
17	A0
18	F8:
19	G,ng
20	F2
22	F8
23	A2, p?
24	f
25	f8:
26	g
27	G2
28	A0

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51
 [[2 columned table]]
 ---|---
 29|g:
 30|g
 31|F5:
 32|G5
 33|G2
 34|F0
 35|G0:
 38|f
 41|F2
 42|f
 43|ng
 44|-
 45|-
 46|f
 47|p2
 48|A overlap
 [[/strikethrough]] 49 | [[/strikethrough]]
 66|A
 64|K
 52|G5
 57|K0
 56|G5
 55|G5
 53|G5
 51|G5
 52|G5:

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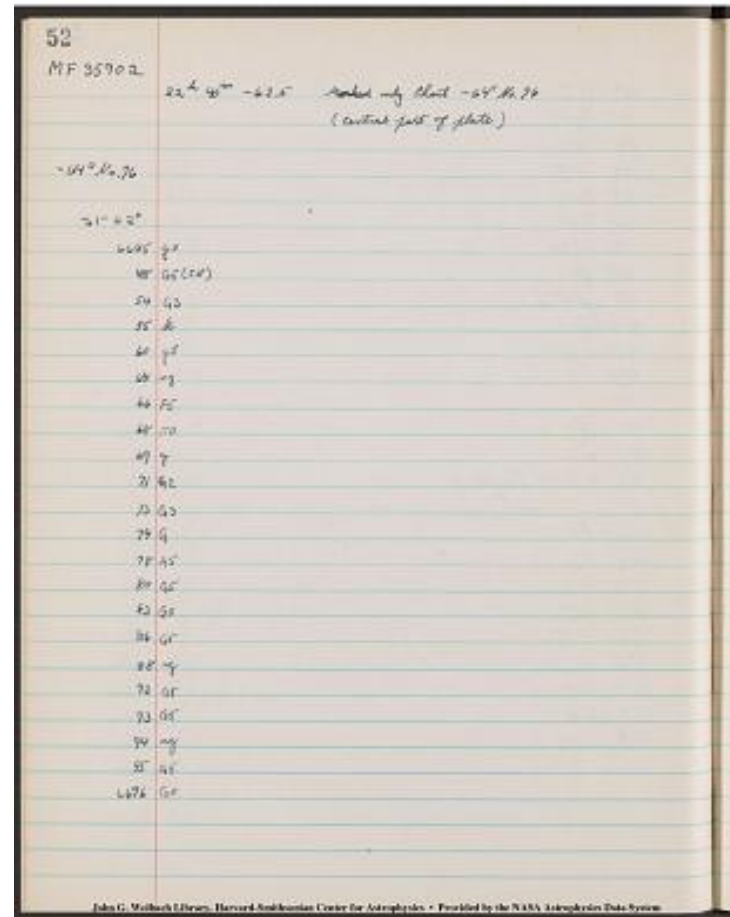
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52
MF35902
22^h 40^m -62.5 Marked my chart -64[°] No. 76 (central part of plate)

-64 degrees No. 76
-61-62 degrees
[[2 Columned Table]]

6645	g0
48	G5 (CN)
54	G3
55	k
60	g5
64	ng
66	F5
68	F0
69	g
71	G2
73	G3
74	G
78	A5
80	G5
83	G0
86	G5
88	ng
92	G5
93	G5
94	ng
95	G5
6696	G0

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53

[[2 column table]]

-62-63 | |

--- | --- |

6333 | G5 |

34 | f5? |

37 | F8 |

38 | K0 |

40 | G0 |

43 | F0: |

63 45 ~~[[symbol - right slash]] 49~~ | F5 |

63 49 | F8 |

51 | F2 |

55 | J5 |

56 | F5 |

59 | g0 |

60 | G5 |

61 | G0 |

64 | G0 |

65 | G0: |

66 | G0 |

70 | G0 |

73 | K0 |

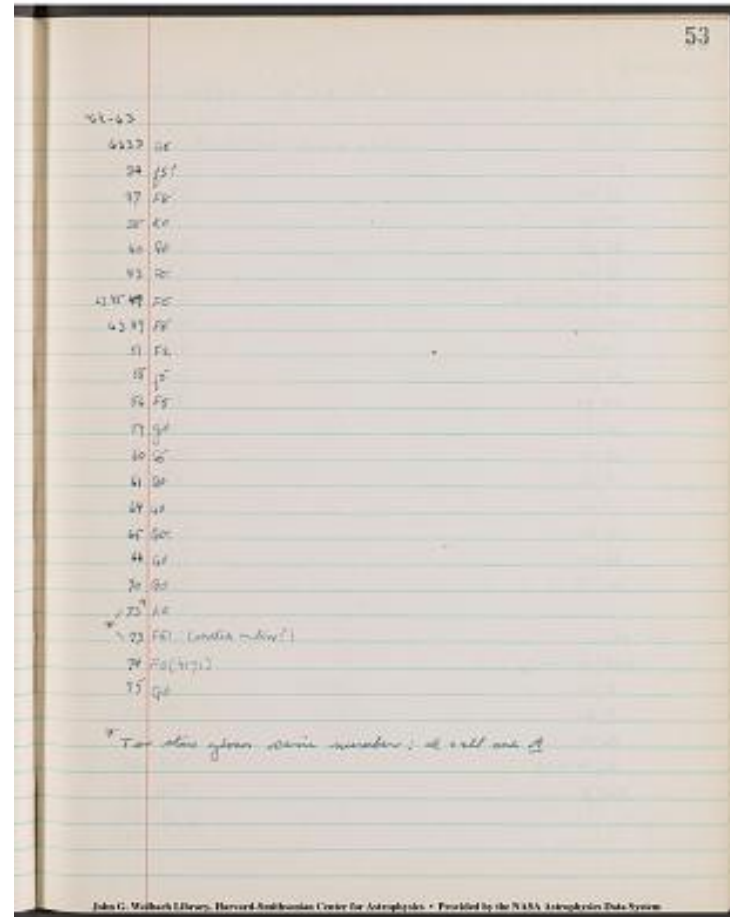
[[symbol - right slash]] 73^[[A]] | F5: scratch on line? |

^[[symbol - star]] [[symbol - left slash]] 74 | F0 (4171) |

75 | G0 |

^[[symbol - star]] Two stars given same number: I call one A

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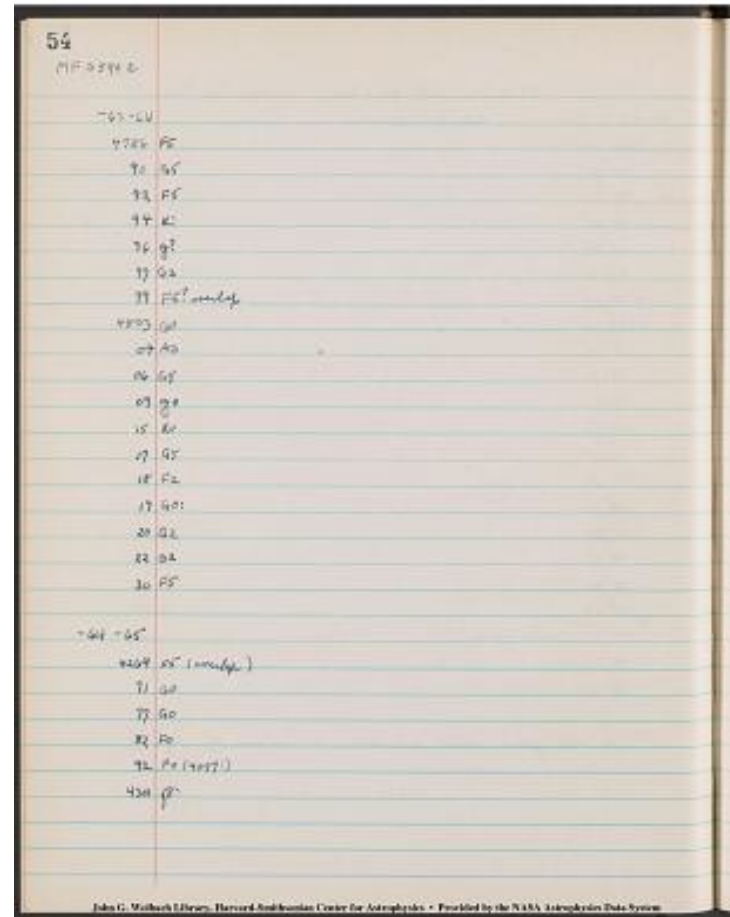
54
MF35902

[[2 columned table]]

-63	-64		
---	---		
4786	F5		
90	G5		
92	F5		
94	K:		
96	G?		
97	G3		
99	F5? overlap		
4803	G0		
04	A3		
06	G5		
09	g0		
15	k0		
17	G5		
18	F2		
19	G0:		
20	G2		
22	G2		
30	F5		

-64	-65		
4264	F5(overlap)		
71	G0		
77	G0		
82	F0		
92	F0(4077:)		
4301	f8:		

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55

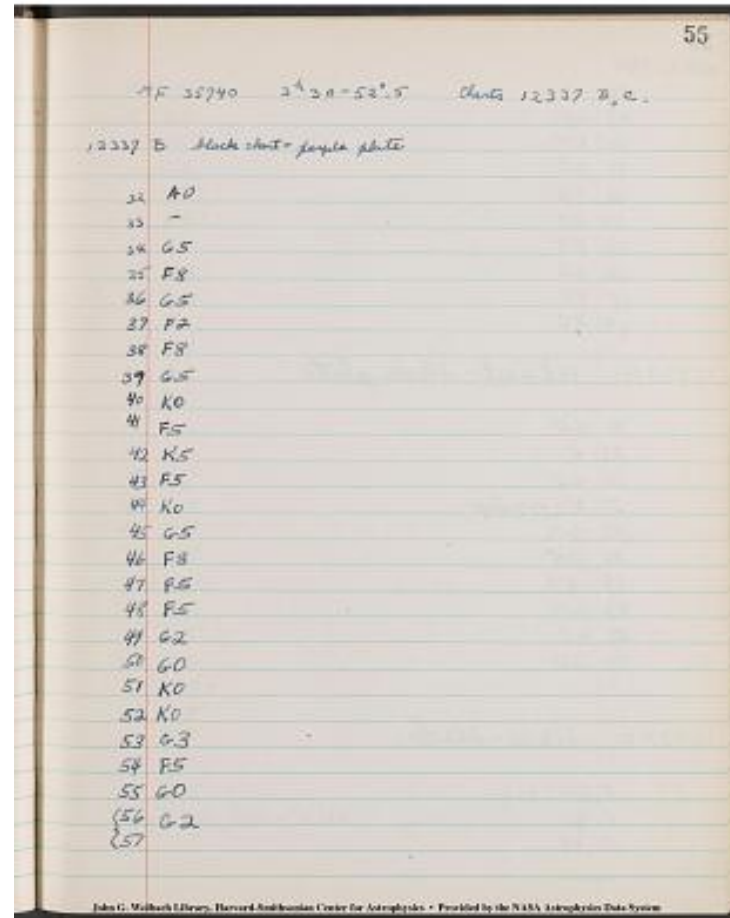
MF 35740 3^h30^m52.5^s Charts 12337 B, C.

[[2 Columned Table]]

12337 | B black chart = purple plate

32	A0
33	-
34	G5
35	F8
36	G5
37	F2
38	F8
39	G5
40	K0
41	F5
42	K5
43	F5
44	K0
45	G5
46	F8
47	F5
48	F5
49	G2
50	G0
51	K0
52	K0
53	G3
54	F5
55	G0
56	G2
57	

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56
MF 35740
[[2 Columned Table]]

58	G0
59	G0:
60	K5:
61	G0
62	F2
63	G0
64	F8
65	G2
66	F8
67	K0

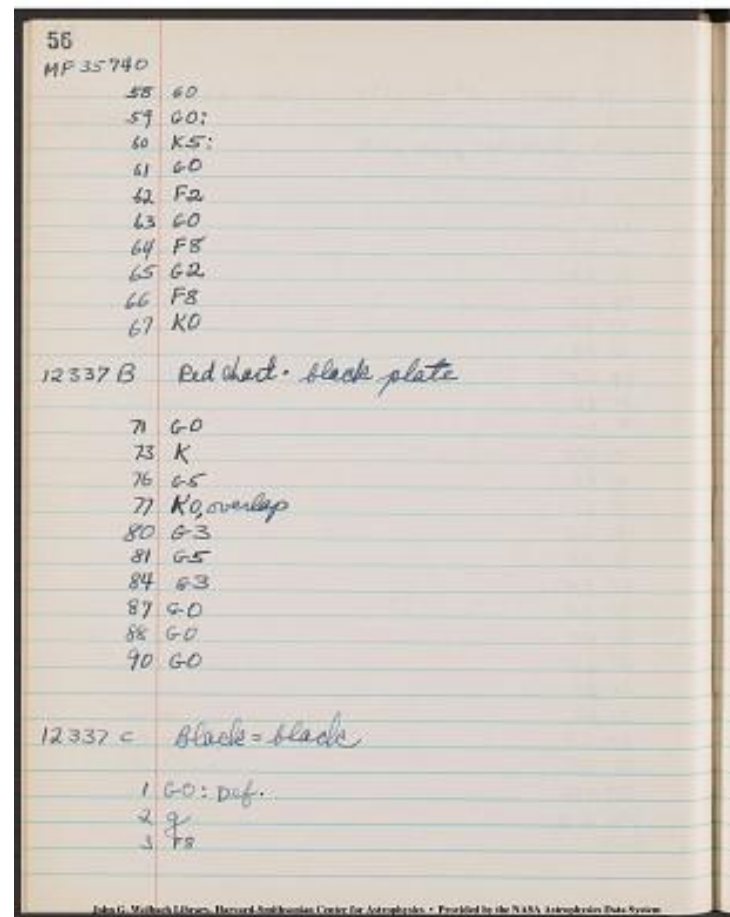
12337B | Red Chart = black plate

71	G0
73	K
76	G5
77	K0, overlap
80	G3
81	G5
84	G3
87	G0
88	G0
90	G0

12337C | Black = black

1	G0: Def.
2	g
3	F8

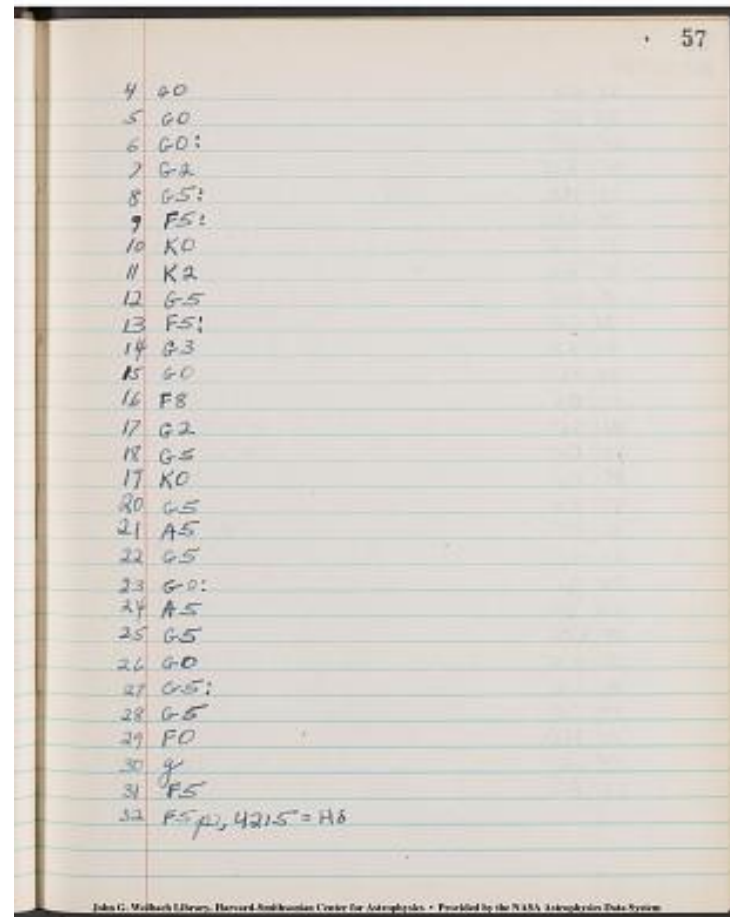
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57
 [[2 Columned Table]]
 ---|---
 4| G0
 5| G0
 6| G0:
 7| G2
 8| G5:
 9| F5:
 10| K0
 11| K2
 12| G5
 13| F5:
 14| G3
 15| G0
 16| F8
 17| G2
 18| G5
 19| K0
 20| G5
 21| A5
 22| G5
 23| G0:
 24| A5
 25| G5
 26| G0
 27| G5:
 28| G5
 29| F0
 30| g
 31| F5
 32| F5p,4215 = H8

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58
MF35740
[[2 Columned Table]]

33	K2
34	F5
35	F8
36	K0
37	M2
38	G0:
39	G5
40	F2
41	G5
42	G5
43	F8:
44	G0
45	G5
46	G0
47	G0
48	K0
49	K2
50	F5
51	G0:
52	g
53	g
54	K0:
55	K5
56	G2
57	F5
58	M0
59	G5
60	A0

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Number	Spectral Type
33	K2
34	F5
35	F8
36	K0
37	M2
38	G0:
39	G5
40	F2
41	G5
42	G5
43	F8:
44	G0
45	G5
46	G0
47	G0
48	K0
49	K2
50	F5
51	G0:
52	g
53	g
54	K0:
55	K5
56	G2
57	F5
58	M0
59	G5
60	A0

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[[2 column table]]

61	K0
62	G0
63	G5
64	F0
65	F8
66	g
67	G5
68	K5
69	F8
70	F8
71	F5
72	G5
73	G0:
74	F0, 4383
75	F0, 4171
76	F5
77	A0
78	g:, ft.
79	F0
80	g:
81	G0
82	F0
83	G5
84	G5
85	G3
86	G0
87	F5:
88	K0
89	g

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61	K0
62	G0
63	G5
64	F0
65	F8
66	g
67	G5
68	K5
69	F8
70	F8
71	F5
72	G5
73	G0:
74	F0, 4383
75	F0, 4171
76	F5
77	A0
78	g:, ft.
79	F0
80	g:
81	G0
82	F0
83	G5
84	G5
85	G3
86	G0
87	F5:
88	K0
89	g

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60
MF35740

[[2 Column Table]]

90	K0
91	G5
92	G5:
93	F8:
94	G0
95	F2
96	F2
97	F5:
98	F2
99	G0
100	G0:overlap
101	G2
102	F8
103	G0
104	F5:
105	F5
106	overlap
107	G0
108	K
109	F5
110	A5
111	F5
112	K0:
113	K0
114	-
115	K0:
118	K2:

60	
MF35740	
90	K0
91	G5
92	G5:
93	F8:
94	G0
95	F2
96	F2
97	F5:
98	F2
99	G0
100	G0:overlap
101	G2
102	F8
103	G0
104	F5:
105	F5
106	overlap
107	G0
108	K
109	F5
110	A5
111	F5
112	K0:
113	K0
114	-
115	K0:
118	K2:

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61

12337C Red = purple

[[2 Column Table]]

---	---
87	A0
98	g
99	F5
100	G0
101	G2
102	F2
103	F2
104	G5
107	G5
109	G0
110	K0
111	F0
113	g
114	K0
117	K5
120	G5
122	G2
123	G0:
125	G2:
129	G5:
130	G5:
131	F5:
132	K
134	G0
135	G2
136	K5:

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61

12337C Red = purple

97	A0
98	g
99	F5
100	G0
101	G2
102	F2
103	F2
104	G5
107	G5
109	G0
110	K0
111	F0
113	g
114	K0
117	K5
120	G5
122	G2
123	G0:
125	G2:
129	G5:
130	G5:
131	F5:
132	K
134	G0
135	G2
136	K5:

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62
MF38684
23^h 20 -55^m Chart 14733A

[[2 column table]]

14733A	red chart = black plate
---	---
84	ng
85	-
86	-
90	K0
92	G5
97	F8:
102	G5
103	G5
104	K2:
107	A
108	G3
109	G0:
113	F0
116	G0
119	K
122	F8:
125	G0
127	G0:
128	g
129	G0:
130	f8:
131	G5:
133	A3
134	K5:
135	G5:

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62
MF 38684
23^h 20 - 55^m Chart 14733A
red chart = black plate

84	ng
85	-
86	-
90	K0
92	G5
97	F8:
102	G5
103	G5
104	K2:
107	A
108	G3
109	G0:
113	F0
116	G0
119	K
122	F8:
125	G0
127	G0:
128	g
129	G0:
130	f8:
131	G5:
133	A3
134	K5:
135	G5:

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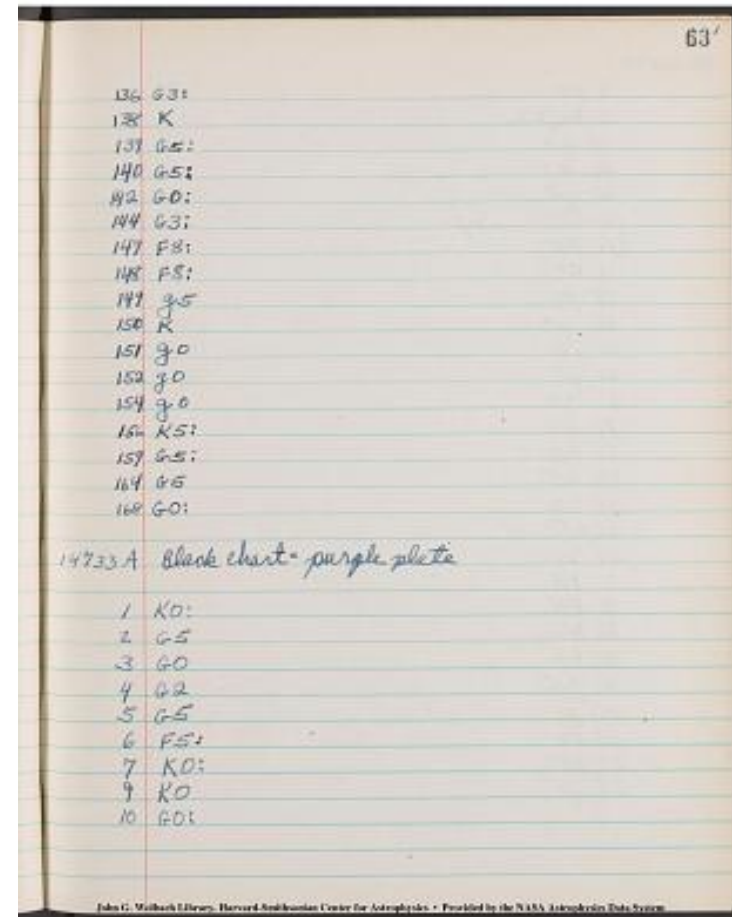
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[[2 column table]]

136	G3:
138	K
139	G5:
140	G5:
142	G0:
144	G3:
147	F8:
148	F8:
149	g5
150	K
151	g0
152	g0
154	g0
156	K5:
159	G5:
164	G5
168	G0:

| 14733A | Black chart = purple plate |

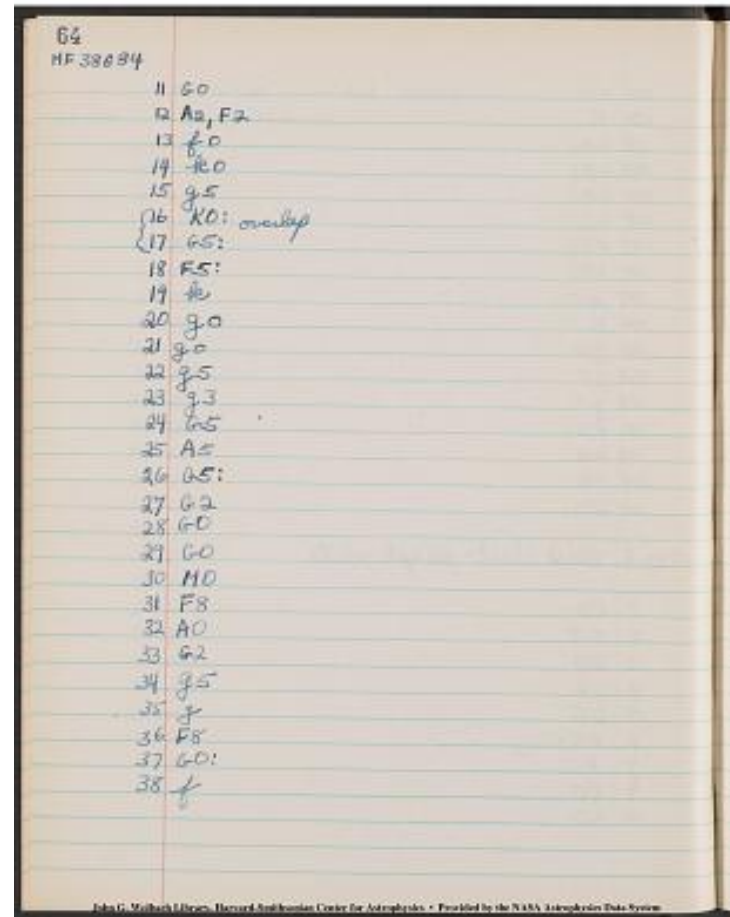
1	K0:
2	G5
3	G0
4	G2
5	G5
6	F5:
7	K0:
9	K0
10	G0:



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64
MF38684
[[2 Columned Table]]

11	GO
12	A2,F2
13	f0
14	k0
15	g5
16	K0: overlap
17	G5:
18	F5
19	k
20	g0
21	g0
22	g0
23	g3
24	G5
25	A5
26	G5:
27	G2
28	G0
29	G0
30	M0
31	F8
32	A0
33	G2
34	g5
35	g
36	F8
37	G0:
38	f



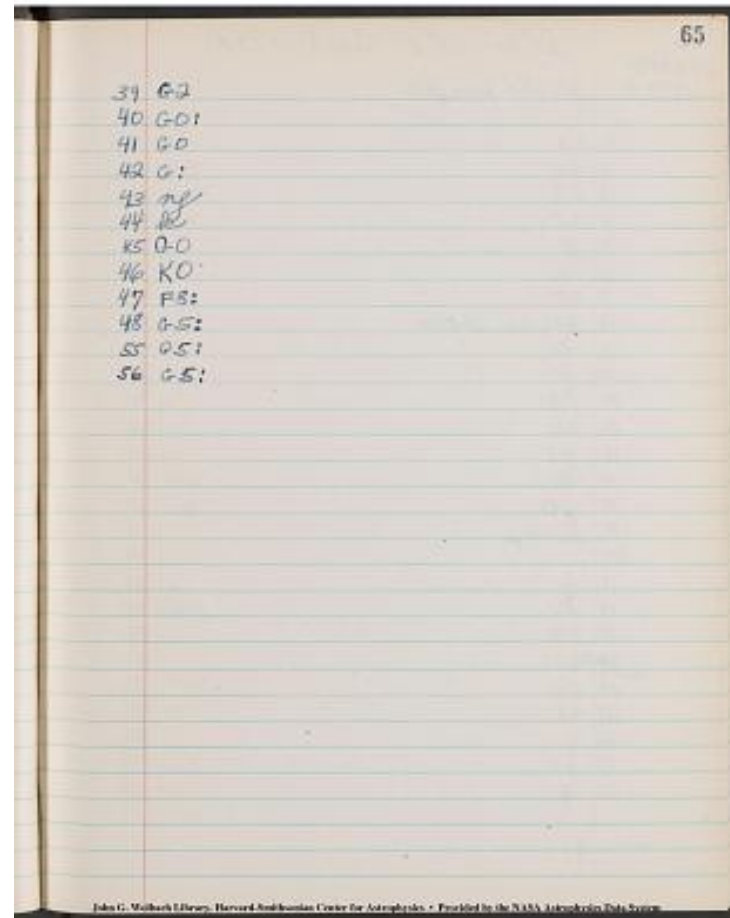
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[[2 Columned Table]]

---	---
39	G2
40	G0:
41	G0
42	G:
43	ng
44	k
45	G0
46	K0
47	F8:
48	G5:
55	G5:
56	G5:

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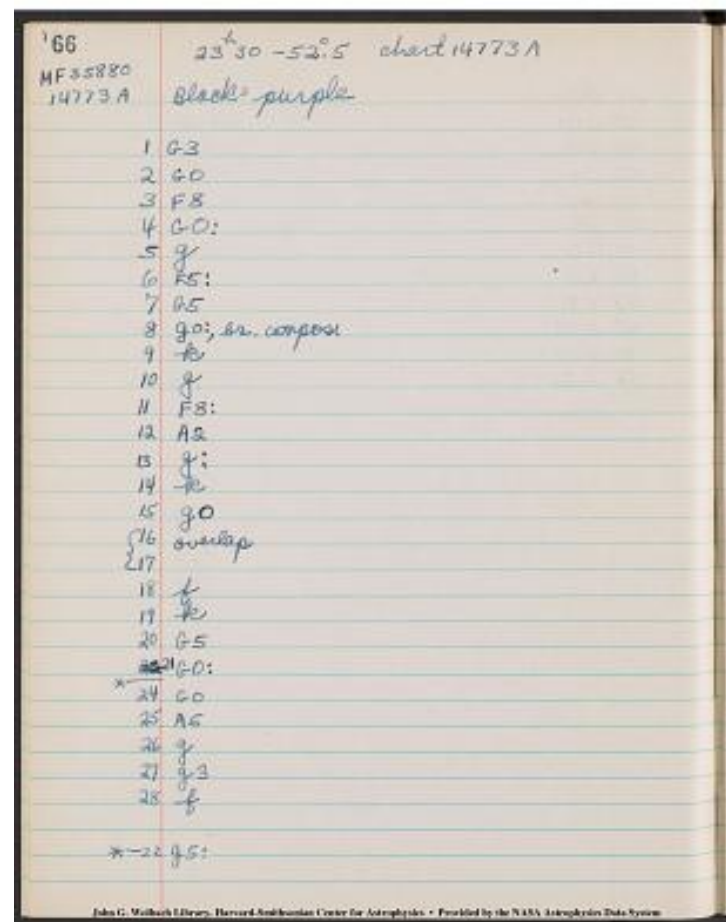
66 23^h30-52^m5 chart 14773A

MF35880

14773A Black = purple

[[2 columned table]]

1	G3
2	G0
3	F8
4	G0:
5	g
6	F5:
7	G5
8	g0:, G2. compos.
9	k
10	g
11	F8:
12	A2
13	g:
14	k
15	g0
16	overlap
17	
18	k
19	k
20	G5
21	G0
22	<u>G0</u>
23	A5
24	g
25	g3
26	f
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
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41	
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67

[[2 column table]]

29	G
30	ng
31	F5:
32	A0
33	G5
34	G5
35	-
36	-
37	-
38	-
39	G5:
40	g
41	
42	
43	
44	G5:
45	G0:
46	
47	
48	
49	G0:
50	
51	
52	
53	
54	
55	
56	

29	G
30	ng
31	F5:
32	A0
33	G5
34	G5
35	-
36	-
37	-
38	-
39	G5:
40	g
41	
42	
43	
44	G5:
45	G0:
46	
47	
48	
49	G0:
50	
51	
52	
53	
54	
55	
56	

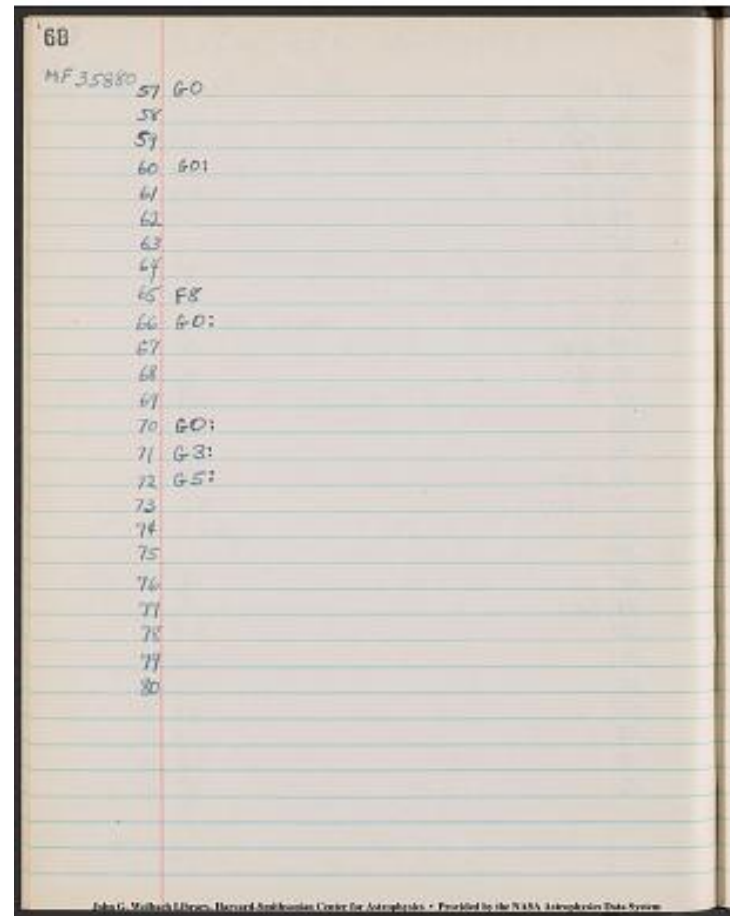
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68

MF 35880
[[2 Columned Table]]

57	G0
58	
59	
60	G0:
61	
62	
63	
64	
65	F8
66	G0:
67	
68	
69	
70	G0:
71	G3:
72	G5:
73	
74	
75	
76	
77	
78	
79	
80	

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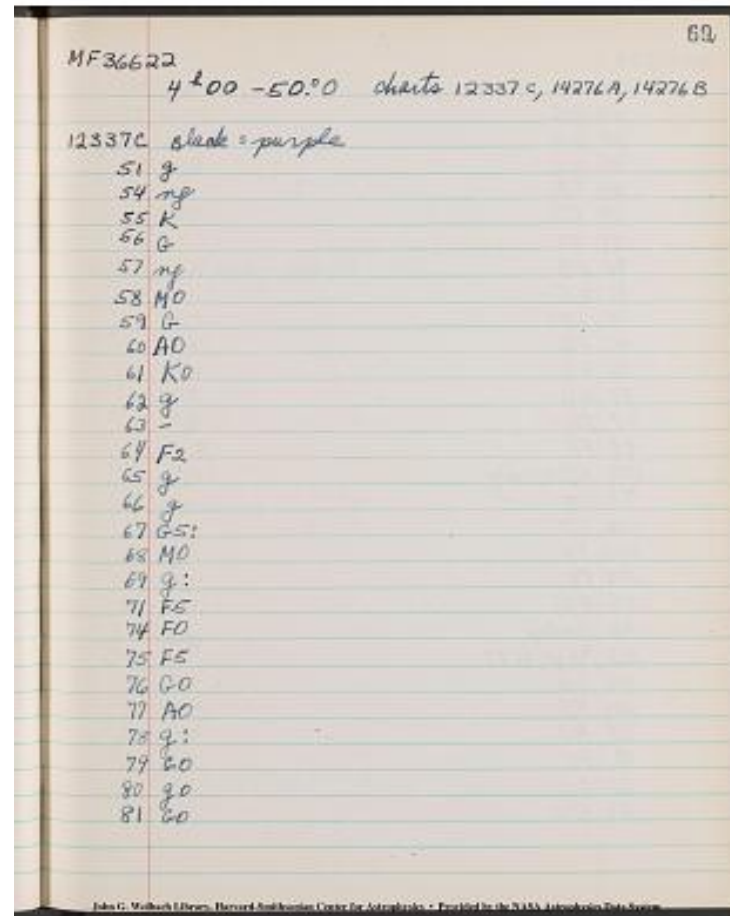
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69
MF36622
4^h[[h]]00 -50.0^o[[°]] Charts 12337c, 14276A, 14276B

[[2 Columned Table]]
12337C | Black = purple

51	g
54	ng
55	K
56	G
57	ng
58	M0
59	G
60	A0
61	K0
62	g
63	-
64	F2
65	g
66	g
67	G5:
68	M0
69	g:
71	F5
74	F0
75	F5
76	G0
77	A0
78	g:
79	G0
80	g0
81	G0

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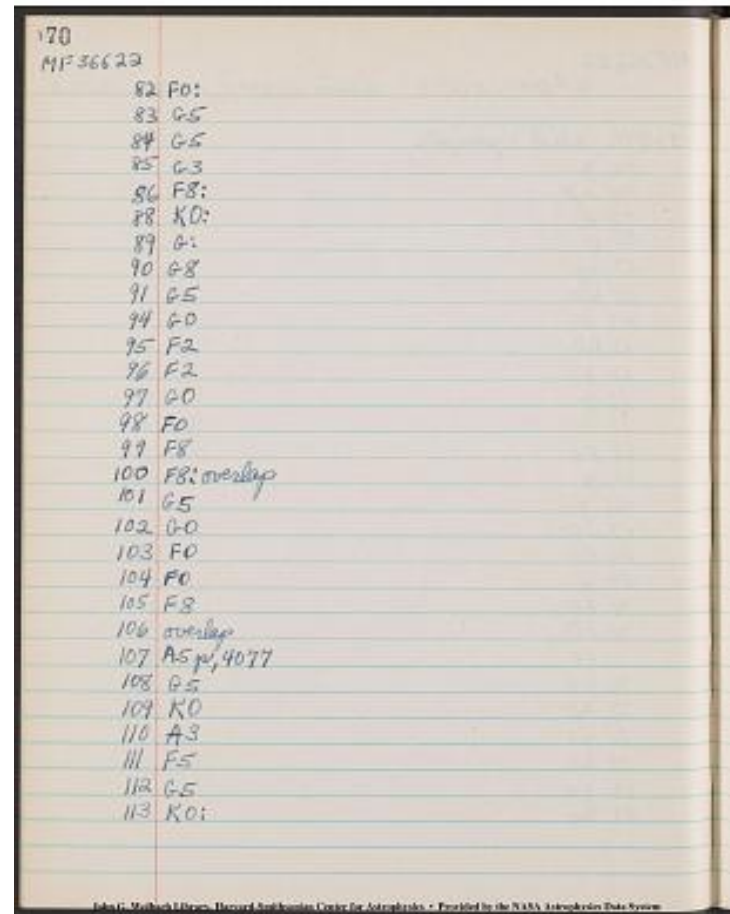
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70
MF36622

[[2 column table]]

82	F0:
83	G5
84	G5
85	G3
86	F8
88	K0:
89	G
90	G8
91	G5
94	G0
95	F2
96	F2
97	G0
98	F0
99	F8
100	F8; overlap
101	G5
102	G0
103	F0
104	F0
105	F8
106	overlap
107	A5 p, 4077
108	G5
109	K0
110	A3
111	F5
112	G5
113	K0:

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71

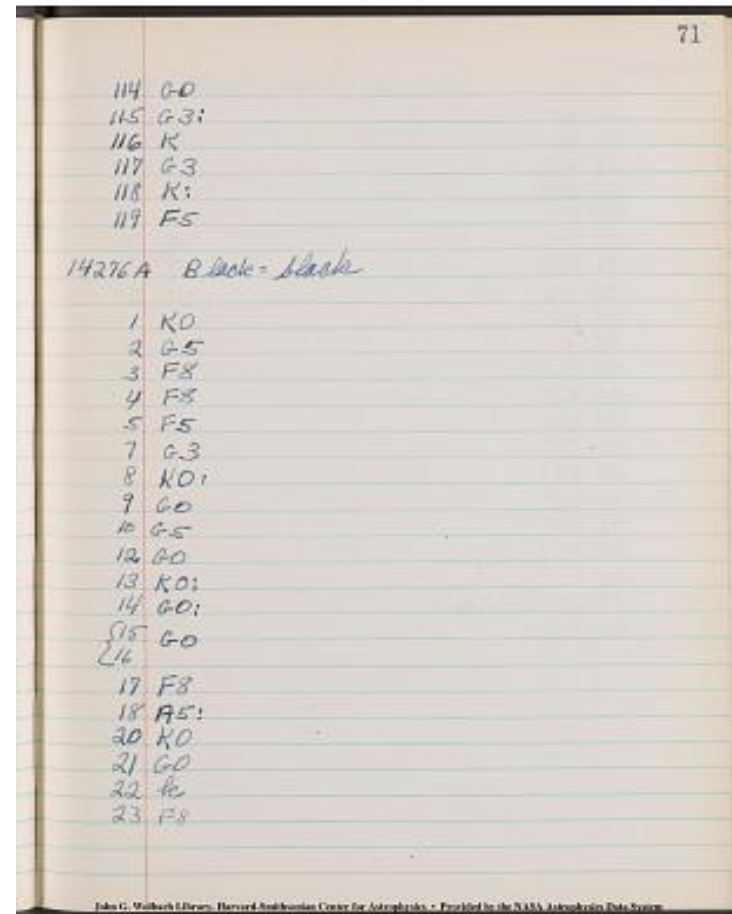
[[2 Columned Table]]

114	G0
115	G3;
116	K
117	G3
118	K:
119	F5

14276A | Black = black

1	K0
2	G5
3	F8
4	F8
5	F5
7	G3
8	K0:
9	G0
10	G5
12	G0
13	K0:
14	G0:
15	G0
16	
17	F8
18	A5:
20	K0
21	G0
22	k
23	F8

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72
 MF36622
 [[2 Columned Table]]

24	g
25	K5
26	ng
27	F5
28	K0
29	F
30	G5
31	F8:
32	G3
33	F8
34	g
35	G5
36	g5
37	k
38	F8
39	F8
40	g5
41	F8
42	K: overlap
43	:
44	K: overlap
44	G0: overlap
45	F5:

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72
 MF36622

24	g
25	K5:
26	ng
27	F5:
28	K0
29	F
30	G5
31	F8:
32	G3
33	F8
34	g
35	G5
36	g5
37	k
38	F8
39	F8
40	g5
41	F8
42	K: overlap
43	:
44	G0: overlap
45	F5:

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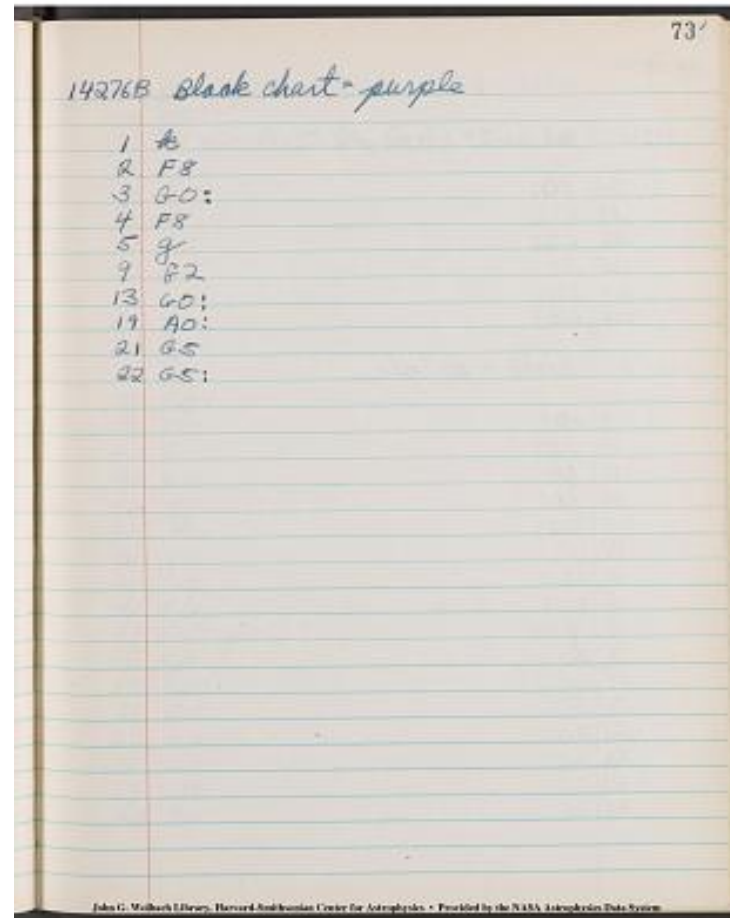
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73

14276B Black chart = purple
[[2 Columned Table]]

---	---
1	k
2	F8
3	G0:
4	F8
5	g
9	G2
13	G0:
19	A0:
21	G5
22	G5:

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74

MF35951

4^h[[h]]00-62.5, charts 12337E, 12337C, 14276D

[[2 Columned Table]]

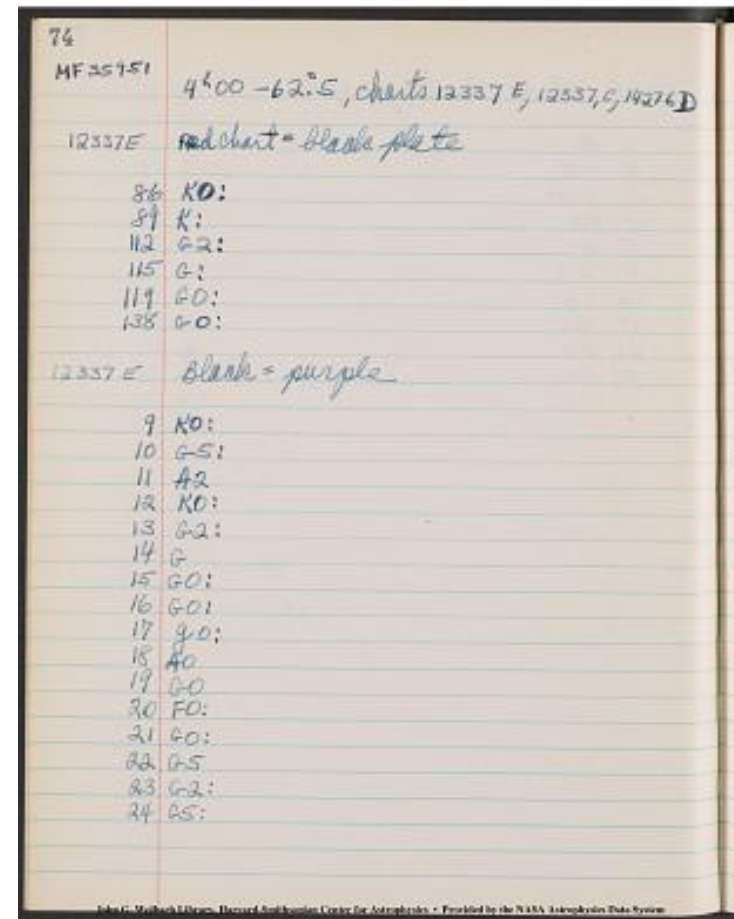
12337E | Red chart = black plate

---	---
86	K0:
89	K:
112	G2:
115	G:
119	G0:
138	G0:

[[2 Columned Table]]

12337E | Black = purple

---	---
9	K0:
10	G5:
11	A2
12	K0:
13	G2:
14	G
15	G0:
16	Go:
17	g0:
18	A0
19	G0
20	F0:
21	G0:
22	G5
23	G2:
24	G5:

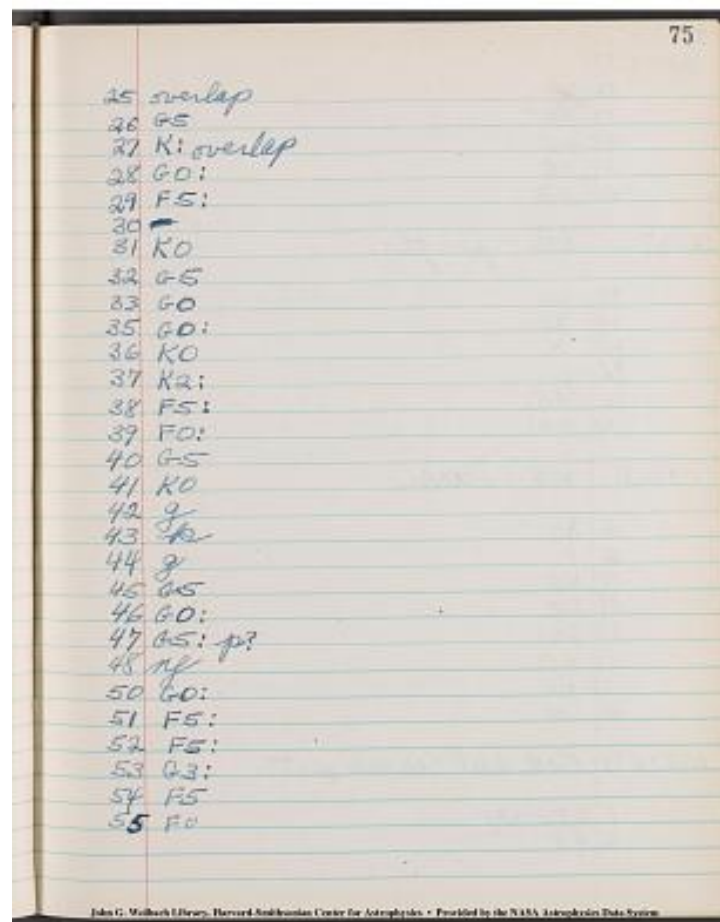


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[[2 column table]]

25	overlap
26	G5
27	K: overlap
28	G0:
29	F5:
30	-
31	K0
32	G5
33	G0
35	G0:
36	K0
37	K2:
38	F5:
39	F0:
40	G5
41	K0
42	g
43	k
44	g
45	G5
46	G0:
47	G5: p?
48	ng
50	G0:
51	F5:
52	F5:
53	G3:
54	F5
5	6 F0

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76

[[2 column table]]

	MF35951
--	---------

56	g
57	G0:
58	G0:
59	F5
60	G3

[[2 column table]]

12337c	Red = purple
--------	--------------

92	g0
94	g
95	K
96	g
116	A5:
133	F0:

[[2 column table]]

14276D	Red = black
--------	-------------

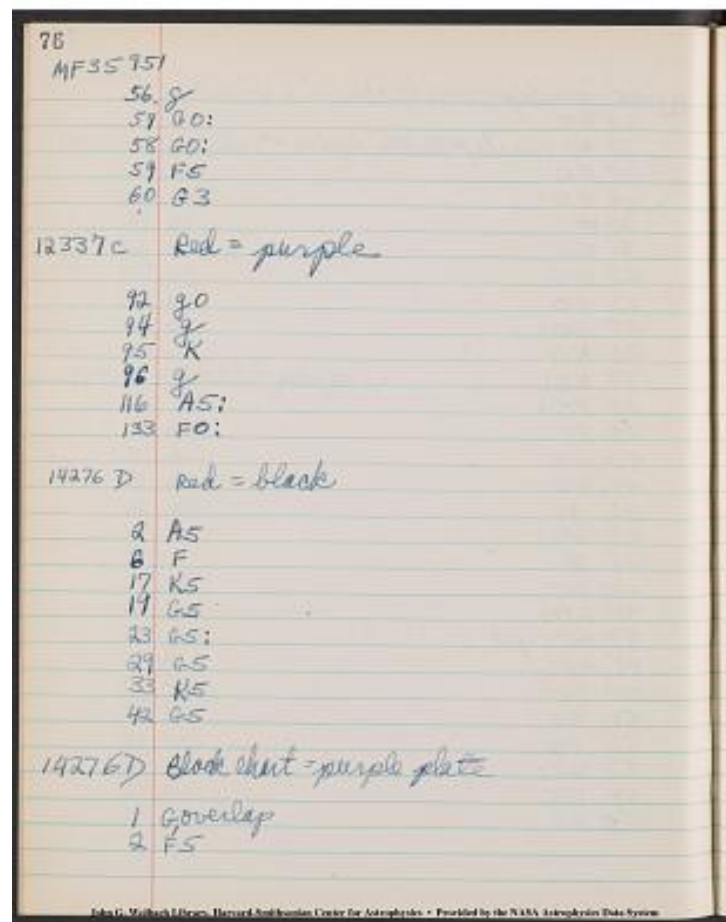
2	A5
6	F
17	K5
19	G5
23	G5:
29	G5
33	K5
42	G5

[[2 column table]]

14276D	Black chart = purple plate
--------	----------------------------

1	G, overlap
2	F5

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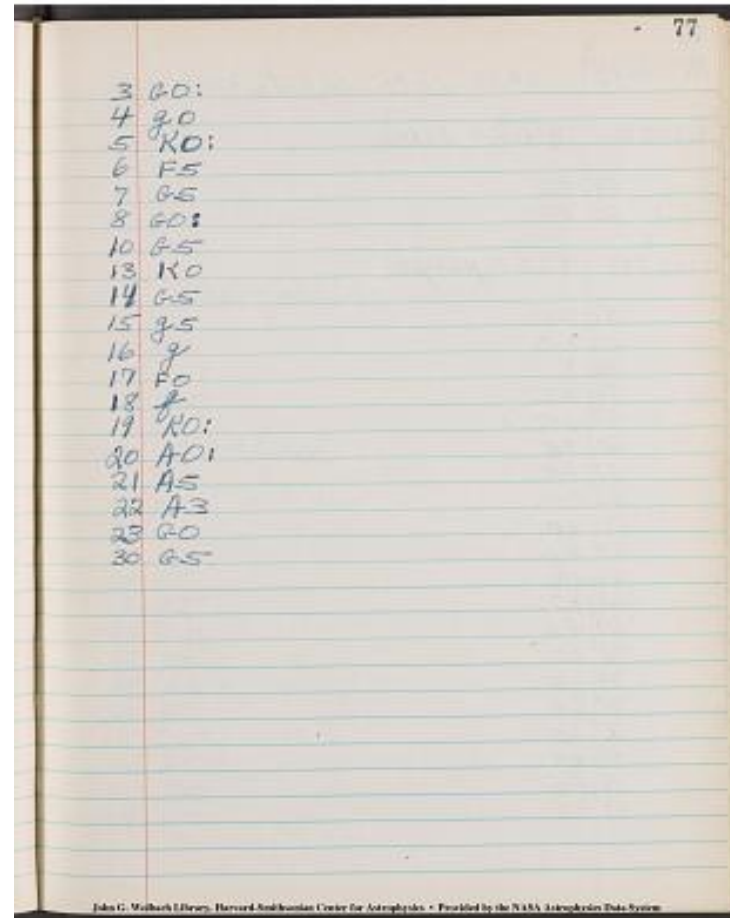


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[[2 column table]]

---	---
3	G0:
4	g0
5	K0:
6	F5
7	G5
8	G0:
10	G5
13	K0
14	G5
15	g5
16	g
17	F0
18	f
19	K0:
20	A0:
21	A5
22	A3
23	G0
30	G5

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3	G0:
4	g0
5	K0:
6	F5
7	G5
8	G0:
10	G5
13	K0
14	G5
15	g5
16	g
17	F0
18	f
19	K0:
20	A0:
21	A5
22	A3
23	G0
30	G5

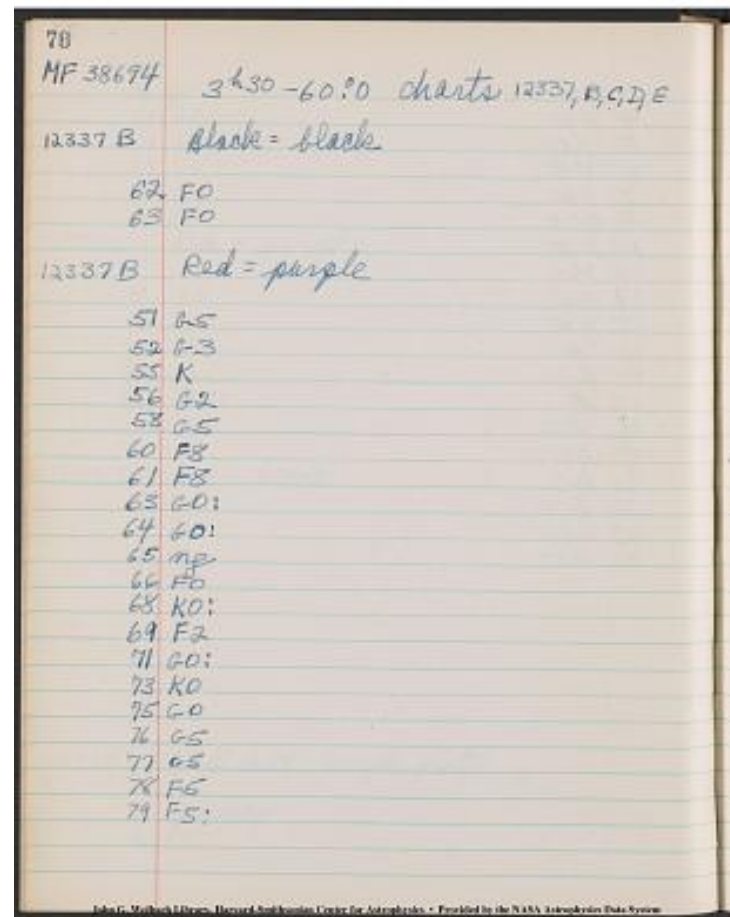
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78
MF 38694
3h30 -60.0^[[°]] charts 12337,B,C,D,E

[[2 column table]]
12337B	Black = black
62 | F0 |
63 | F0 |

[[2 column table]]
12337B	Red = purple
51 | G5 |
52 | G3 |
55 | K |
56 | G2 |
58 | G5 |
60 | F8 |
61 | F8 |
63 | G0: |
64 | G0: |
65 | ng |
66 | F0 |
68 | K0: |
69 | F2 |
71 | G0: |
73 | K0 |
75 | G0 |
76 | G5 |
77 | G5 |
78 | F5 |
79 | F5: |

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[[2 column table]]

---	---
80	G3
81	G5
84	G8
87	G0:
88	G0
90	F5
91	F5:

[[2 column table]]

12337c | Black = purple |

---	---
70	F5
72	K3:
73	G5:

[[2 column table]]

12337C | Red = black |

---	---
92	G5
93	F5
94	F5
95	F8
96	G2
97	K2:
98	G0
99	F5
100	G0
101	G5
102	F5
103	F5:
104	G0:

80	G3
81	G5
84	G8
87	G0:
88	G0
90	F5
91	F5:
12337C Black = purple	
70	F5
72	K3:
73	G5:
12337C Red = black	
92	G5
93	F5
94	F5
95	F8
96	G2
97	K2:
98	G0
99	F5
100	G0
101	G5
102	F5
103	F5:
104	G0:

80
MF38694
[[2 Columned Table]]

105	K0
106	G
107	K5
108	G0
109	G0
110	K0
111	F0
113	G0
114	K2:
116	A5
117	K0:
118	G0
120	G5:
121	F8:
122	g5
123	F8:
124	g5
125	K0:
126	K0:
127	G5:
128	G5:
129	G5:
130	g5
131	g
132	k
133	F5:
137	F0:

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80	
MF38694	
105	K0
106	G
107	K5
108	G0
109	G0
110	K0
111	F0
113	G0
114	K2:
116	A5
117	K0:
118	G0
120	G5:
121	F8:
122	g5
123	F8:
124	g5
125	G0
126	K0:
127	G5:
128	G5:
129	G5:
130	g5
131	g
132	k
133	F5:
137	F0:

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81

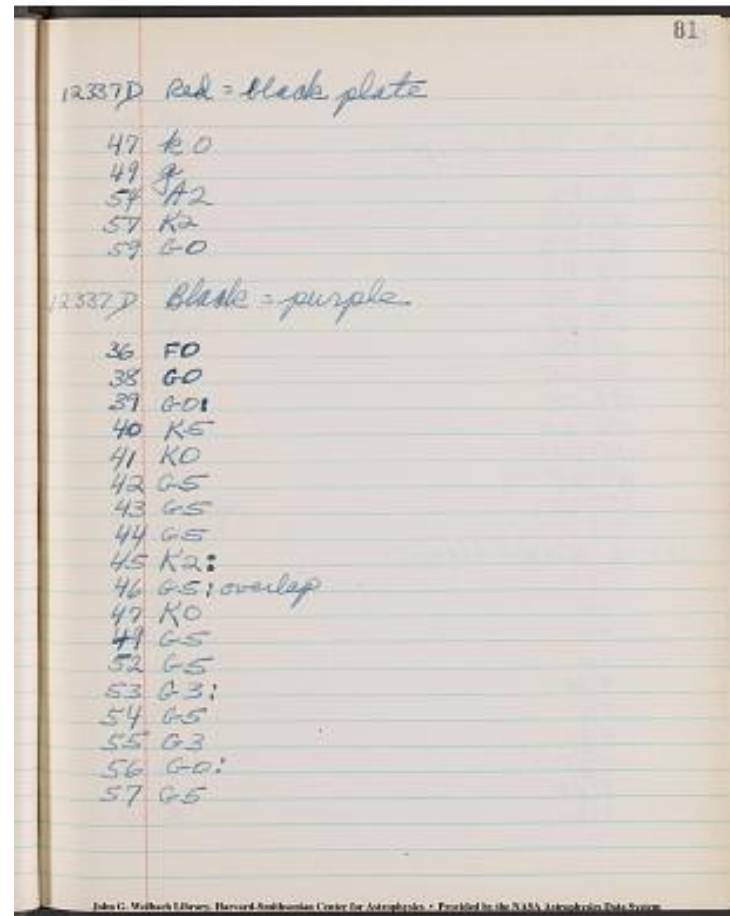
[[2 Columned Table]]
12337D | Red = black plate

47	k0
49	g
54	A2
57	K2
59	G0

[[2 Columned Table]]
12332D | Black = purple

36	F0
38	G0
39	G0:
40	K5
41	K0
42	G5
43	G5
44	G5
45	K2:
46	G5: overlap
47	K0
49	G5
52	G5
53	G3:
54	G5
55	G3
56	G0:
57	G5

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82
MF 38694
[[2 columned table]]
--- | ---
58. | k

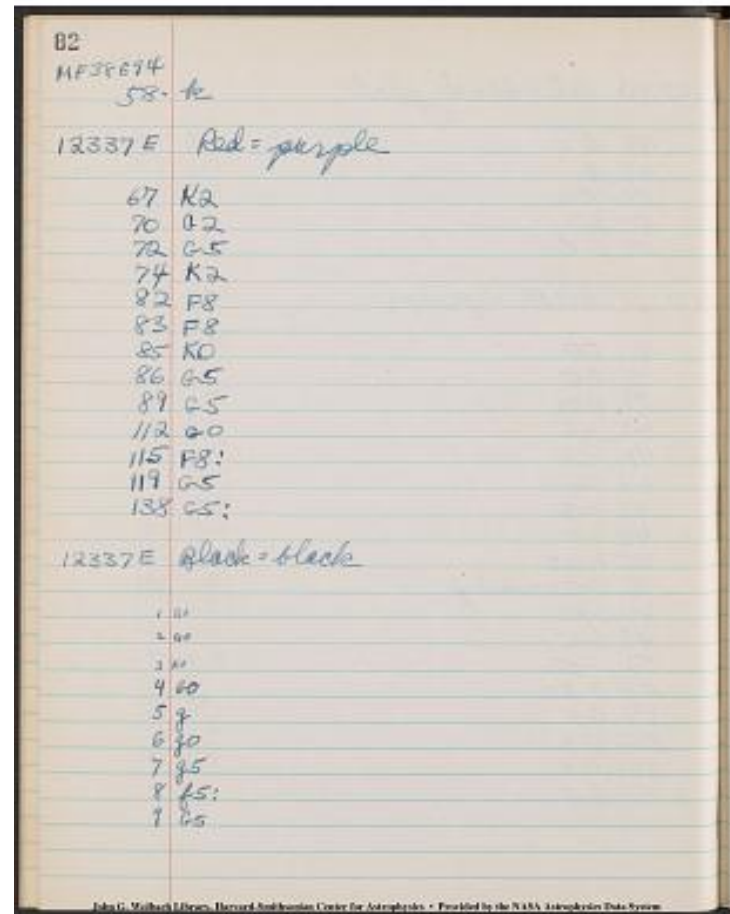
12337E | Red=purple

67	K2
70	G2
72	G5
74	K2
82	F8
83	F8
85	K0
86	G5
89	G5
112	G0
115	F8:
119	G5
138	G5:

12337E | Black=black

1	G0
2	G0
3	K0
4	G0
5	g
6	g0
7	g5
8	f5:
9	G5

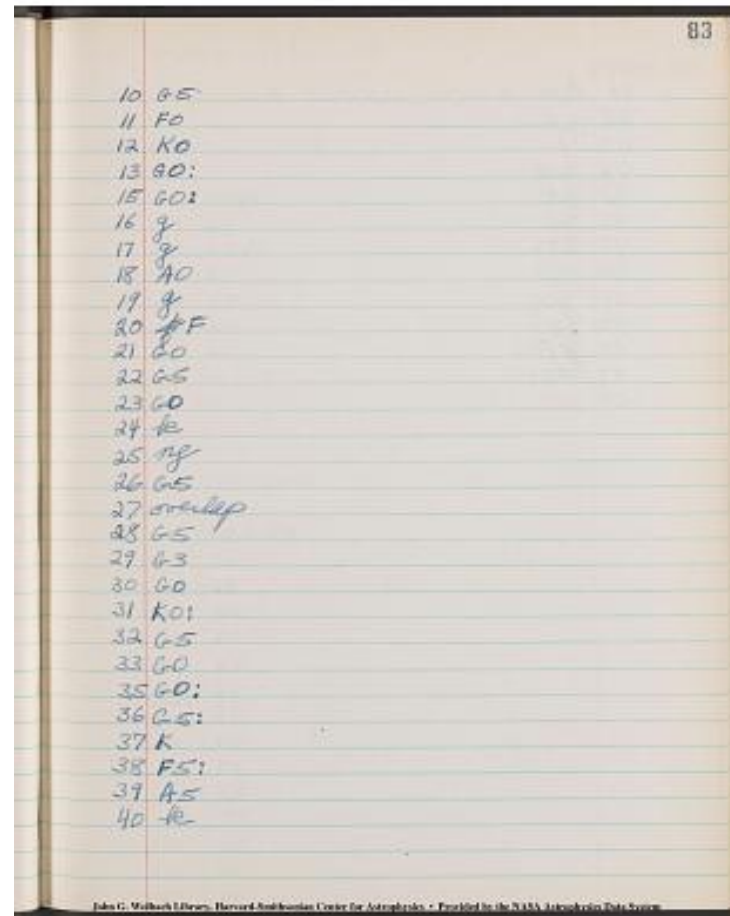
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83
 [[2 Columned Table]]
 ---|---
 10|G5
 11|F0
 12|K0
 13|G0:
 15|G0:
 16|g
 17|g
 18|A0
 19|g
 20|~~z~~~~F~~
 21|G0
 22|G5
 23|G0
 24|K
 25|nf
 26|G5
 27|overlap
 28|G5
 29|G3
 30|G0
 31|K0
 32|G5
 33|G0
 35|G0:
 36|G5:
 37|K
 38|F5
 39|A5
 40|K

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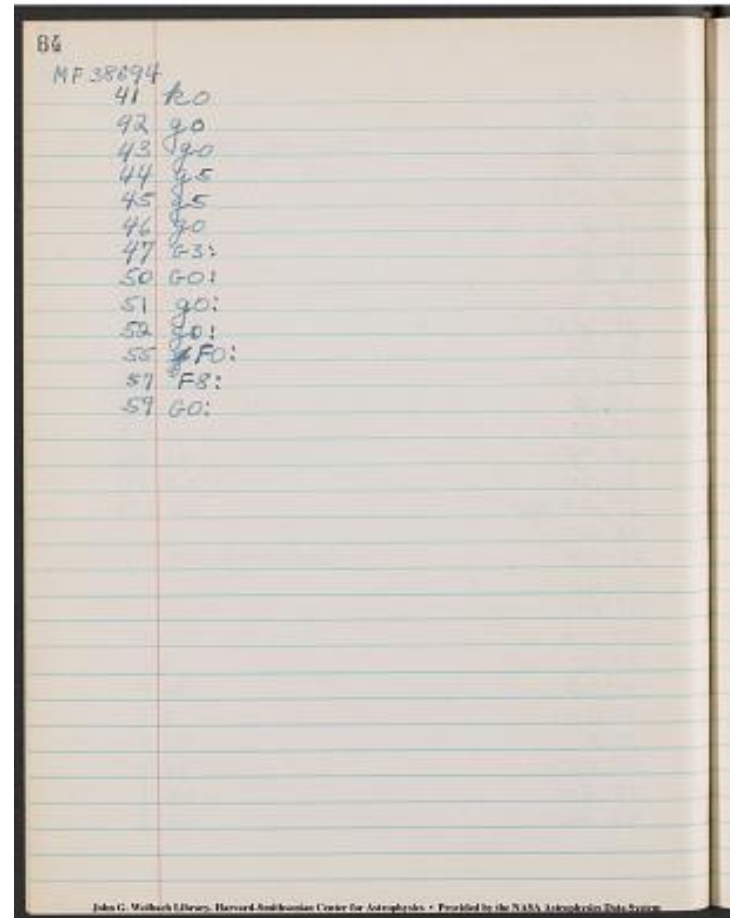
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84

MF38694

[[2 Columned Table]]

---	---
41	k0
42	g0
43	g0
44	g5
45	g5
46	g0
47	G3:
50	G0:
51	g0:
52	g0:
55	[[/strikethrough]] q [[/strikethrough]] F0:
57	F8:
59	G0:



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85
 MF 35691 - 22^h 30 - 52.5°
 Charts -52° Nos. 90, 92; -58° Nos. 90, 92

Chart -52° No. 90 Zone - 52-53

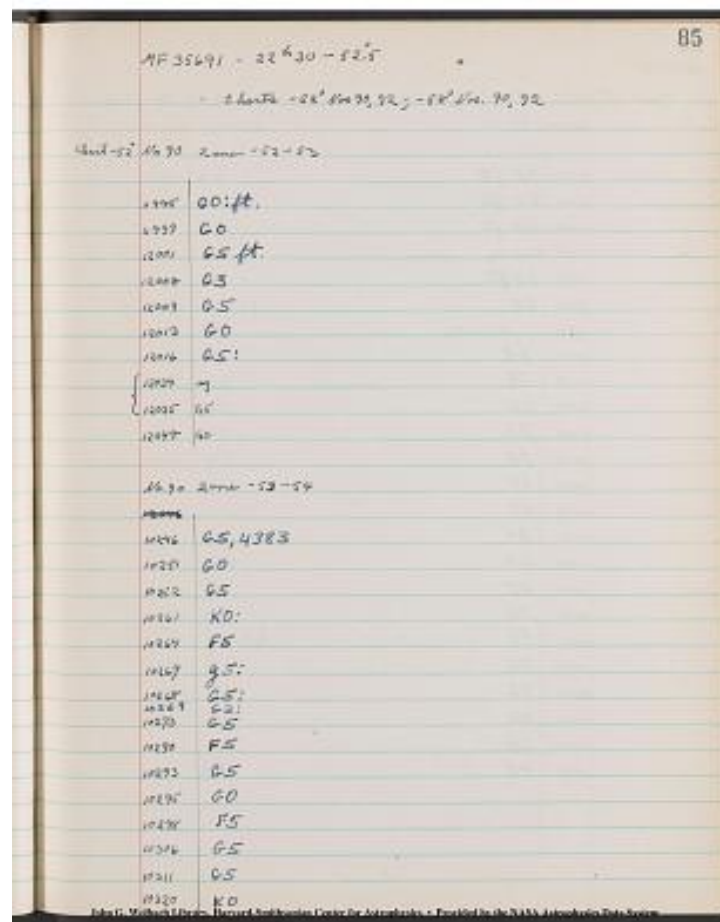
[[2 column table]]
 --- | ---

11995	G0:ft.
11997	G0
12001	G5 ft.
12008	G3
12009	G5
12013	G0
12016	G5:
{12034	ng
{12035	G5
12044	G0

No. 90 Zone -53-54
 [[2 column table]]

10246	G5, 4383
10251	G0
10252	G5
10261	K0:
10264	F5
10267	g5:
10268	G5:
10269	G2:
10273	G5
10290	F5
10293	G5
10295	G0
10298	F5
10306	G5
10311	G5
10320	K0

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86
MF35691
Chart-52° No 90 cont.
zone -54 -55

[[2 Columned Table]]

----|----|

10020	F8: ft.
10021	G0: ft.
10022	K0: ft.
10025	G: overlap
10030	G3 ft.
10031	G5
10041	ft., overlap
10043	f8
10045	F8
10046	G2
10047	F5
10054	F0
10074	K0
10076	G0
10077	A5
10078	G5
10085	G5
10087	F5
10088	F8
10092	F5
10098	F2
10100	G3
10102	G5
10107	F0

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86
MP 35691
Chart-52° No 90 cont.
zone -54 -55
10020 F8: ft.
10021 G0: ft.
10022 K0: ft.
10025 G: overlap
10030 G3 ft.
10031 G5
10041 ft., overlap
10043 f8
10045 F8
10046 G2
10047 F5
10054 F0
10074 K0
10076 G0
10077 A5
10078 G5
10085 G5
10087 F5
10088 F8
10092 F5
10098 F2
10100 G3
10102 G5
10107 F0

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87
35691
Chart -52 No92

[[2 Columned Table]]

--- | ---

Zone	-52-53
12051	G0
12060	G0:
12070	G3
12076	F0

Zone	-53-54
10334	G5
10336	F2
10337	G5
10338	K0:
10341	G0:
10362	F5

Zone	-54-55
10111	F8
10118	G0:
10125	G0
10132	G3
10142	G5,def.
10146	G0
10155	F5
10157	G5
10162	F2
10163	F8:

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Chart -52 No92	
Zone -52-53	
12051	G0
12060	G0:
12070	G3
12076	F0
Zone -53-54	
10334	G5
10336	F2
10337	G5
10338	K0:
10341	G0:
10362	F5
Zone -54-55	
10111	F8
10118	G0:
10125	G0
10132	G3
10142	G5, def.
10146	G0
10155	F5
10157	G5
10162	F2
10163	F8:

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88
MF35691
Chart -58* No 90

[[2 Columned Table]]

zone	-55-56
9822	F2
9847	G3
9851	G3
9864	G0

Zone	-56-57
9864	G5
9867	G0
9870	G5
9876	A0
9887	F8
9897	K2
9901	F5
9905	F8
9909	G2
9912	G5
9913	G0:
9916	F5
9917	F0

Zone	-57-58
10090	F0
10097	F5:
10108	G5:

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88	
MF35691	
Zone -55-56	
9822	F2
9847	G3
9851	G3
9864	G0:
Zone -56-57	
9864	G5
9867	G0:
9870	G5
9876	A0
9887	F8
9897	K2
9901	F5
9905	F8
9909	G2
9912	G5
9913	G0:
9916	F5
9917	F0
Zone -57-58	
10090	F0
10097	F5:
10108	G5:

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Chart - 58° No 92
 Zone - 55 - 56
 [[2 column table]]

9873	G5
9875	K0
9877	F0
9879	K0
9881	G0
9894	F0
9911	F5
9912	M2

Zone - 56 - 57

9929	g
9931	F0
9934	G5
9935	K0
9936	F0
9940	F8
9946	F5
9948	K0
9950	F0
9956	G5
9957	K0
9963	G0
9968	G5
9969	F5
9970	F5
9971	G5
9973	G2
9975	g5

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Handwritten astronomical chart page 89. The page is divided into two sections by a horizontal line. The top section is labeled 'Zone - 55 - 56' and the bottom section is labeled 'Zone - 56 - 57'. Each section contains a list of stars with their spectral classifications. The stars are numbered in the left column and their spectral types are written in the right column.

Star Number	Spectral Classification
9873	G5
9875	K0
9877	F0
9879	K0
9881	G0
9894	F0
9911	F5
9912	M2
Zone - 56 - 57	
9929	g
9931	F0
9934	G5
9935	K0
9936	F0
9940	F8
9946	F5
9948	K0
9950	F0
9956	G5
9957	K0
9963	G0
9968	G5
9969	F5
9970	F5
9971	G5
9973	G2
9975	g5

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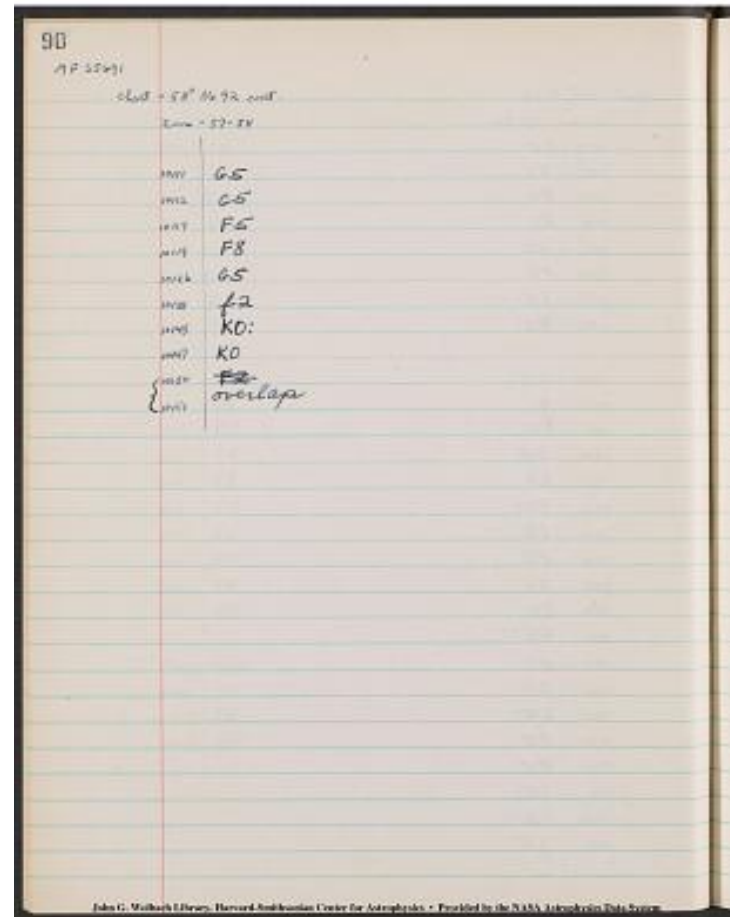
90

MF35691
chart -58^h[[°]] No92 cont.
Zone -57-58

[[2 Columned Table]]

---	---	---
10111	G5	
10112	G5	
10117	F5	
10119	F8	
10126	G5	
10128	f2	
10145	K0:	
10147	K0	
{10150	F2 overlap	
{10151	overlap	

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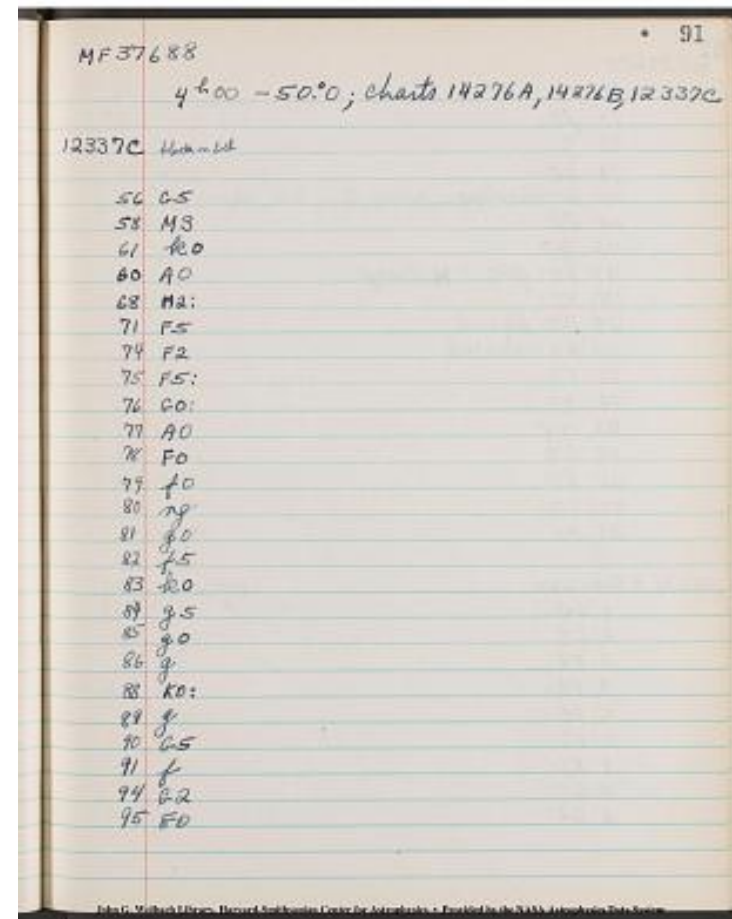
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91
MF37688
4^h00-50^m0; charts 14276A, 14276B, 12337C

[[2 column table]]
| 12337C | black on both |
|----|

56	G5
58	M3
61	K0
60	A0
68	M2
71	F5
74	F2
75	F5:
76	G0:
77	A0
78	F0
79	f0
80	ng
81	g0
82	f5
83	K0
84	g5
85	g0
86	g
88	K0:
89	g
90	G5
91	f
94	G2
95	F0

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92
MF37688

[[2 column table]]

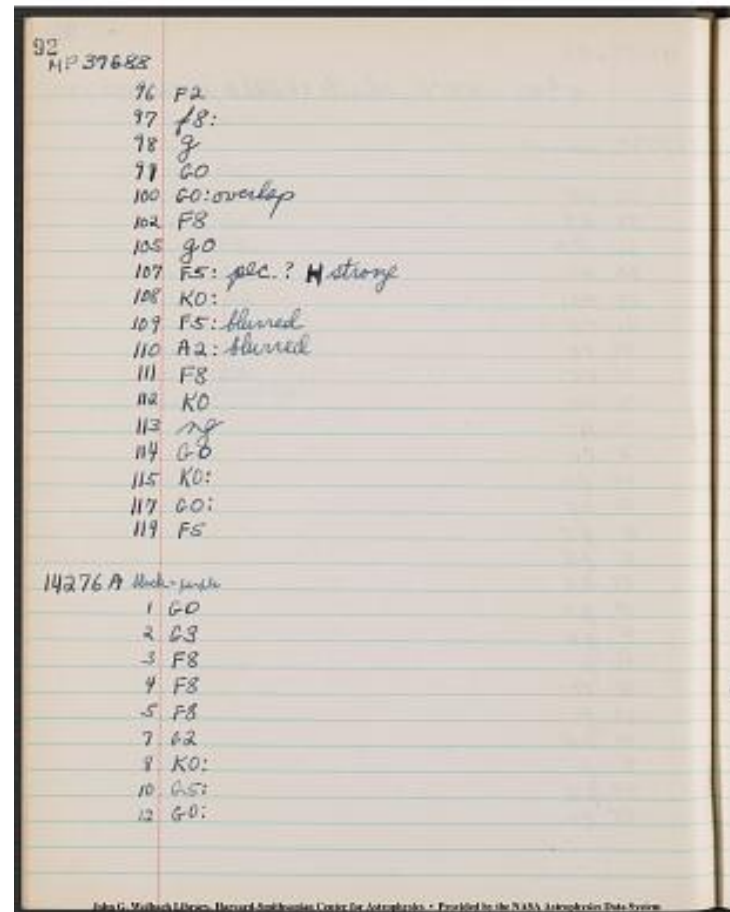
96	F2
97	F8:
98	g
99	G0
100	G0: overlap
102	F8
105	g0
107	F5: pec.? H strong
108	K0:
109	F5: blurred
110	A2: blurred
111	F8
112	K0
113	ng
114	G0
115	K0:
117	G0:
119	F5

[[2 column table]]

14276A | black=purple |

1	G0
2	G3
3	F8
4	F8
5	F8
7	G2
8	K0:
10	G5:
12	G0:

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93

[[2 column table]]

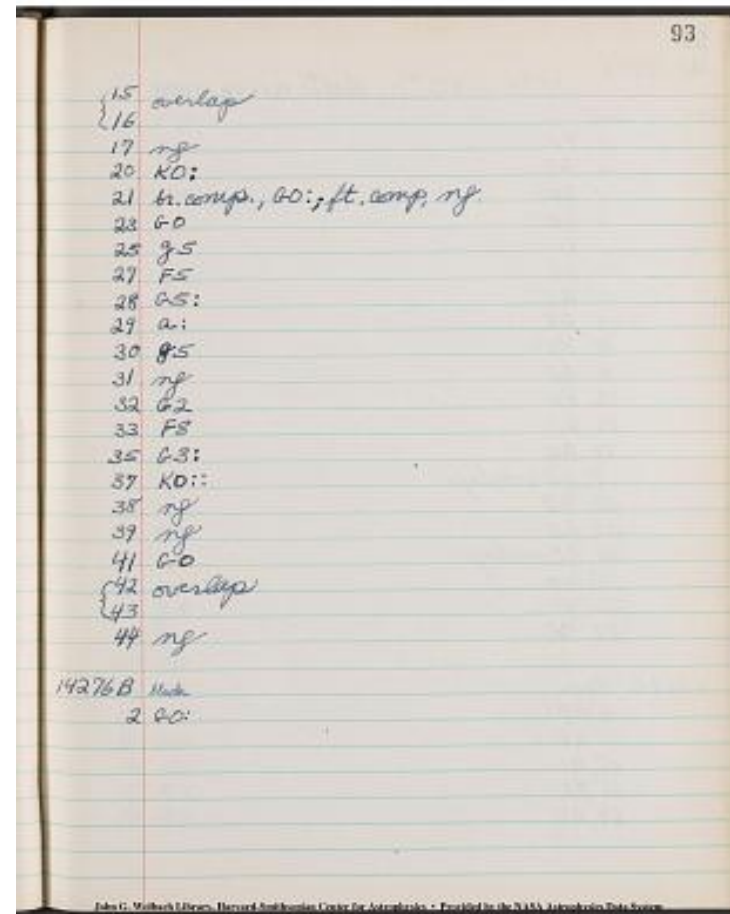
|---|---|

{15	overlap
{16	
17	ng
20	K0:
21	br comp., G0::ft.comp, ng
23	G0
25	g5
27	F5
28	G5
29	a:
30	g5
31	ng
32	G2
33	F8
35	G3:
37	K0::
38	ng
39	ng
41	G0
{42	overlap
{43	
44	ng

14276B | black

2 | G0:

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94
MF 38148
7^h0 - 50^m0, charts 16069c, 15417A

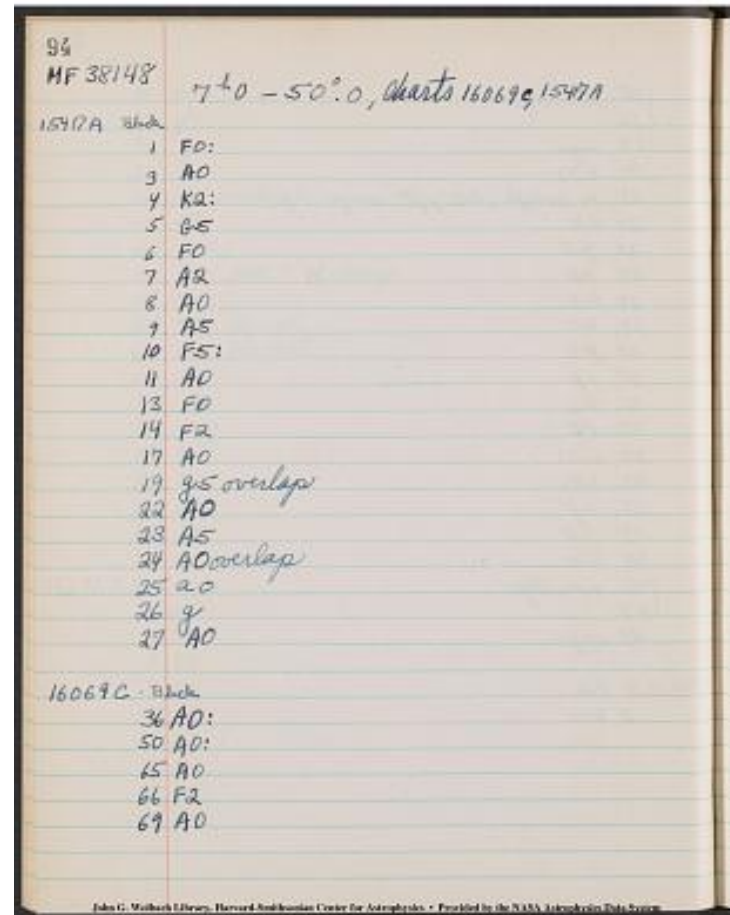
[[2 Columned Table]]
15417A Black |

1	F0:
3	A0
4	K2:
5	G5
6	F0
7	A2
8	A0
9	A5
10	F5:
11	A0
13	F0
14	F2
17	A0
19	g5 overlap
22	A0
23	A5
24	A0 overlap
25	a0
26	g
27	A0

[[2 Columned Table]]
16069C - Black |

36	A0:
50	A0:
65	A0
66	F2
69	A0

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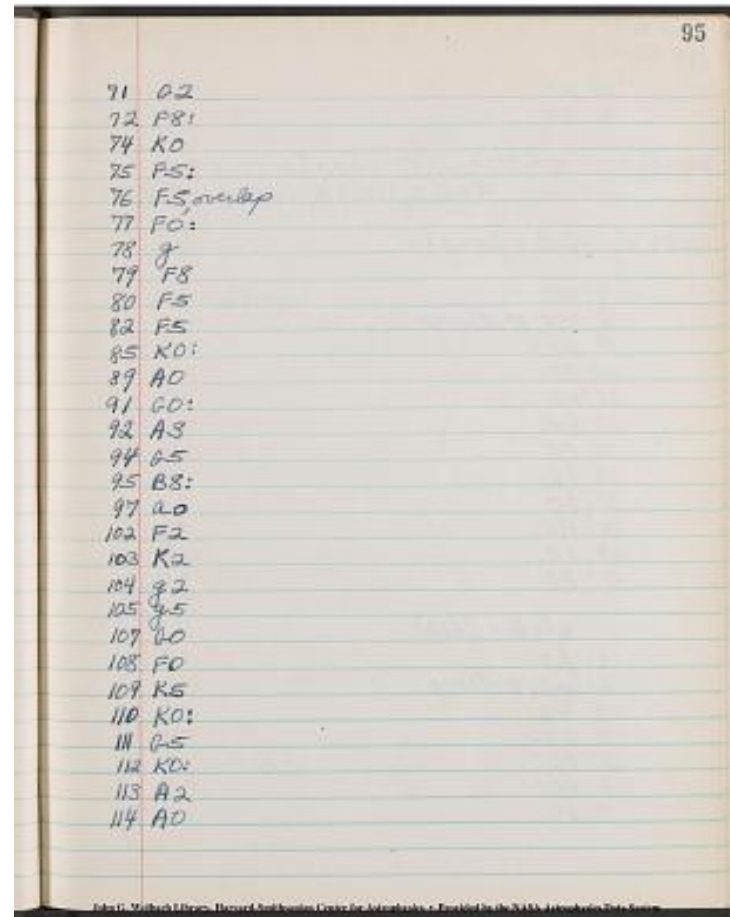


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95
[[2 Columned Table]]

71	G2
72	F8:
74	K0
75	F5:
76	F5, overlap
77	F0:
78	g
79	F8
80	F5
82	F5
85	K0:
89	A0
91	G0:
92	A3
94	G5
95	B8:
97	a0
102	F2
103	K2
104	g2
105	g5
107	G0
108	F0
109	K5
110	K0:
111	G5
112	K0:
113	A2
114	A0

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[[3 Columned Table]]

MF 38148		
MF 38720		
MF 38148	115	F8
	116	A2
MF 38720		5 ^h 30-60 ^m [^s].0 charts 16069A, 14276C, 16069B, 16069D, 14276E

16069D | | Red=purple

1	F5:
8	F0:, H strong
12	G5:
20	F0
21	F5:
26	G5:
32	F0
33	F2:
34	G0
38	M5:
40	F8:
41	A0

	Black=black
1	f0
2	f0, H strong
3	F2
4	G0:
5	F2:
6	F0:
7	G0

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96 MF 38148
 MF 38720

MF 38148 115 F8
 116 A2

MF 38720 5^h30-60^m.0 charts 16069 A,
 14276 C, 16069 B, 16069 D, 14276 E

16069 D Red = purple

1 F5:
 8 F0:, H strong
 12 G5:
 20 F0
 21 F5:
 26 G5:
 32 F0
 33 F2:
 34 G0
 38 M5:
 40 F8:
 41 A0

Black = black

1 f0
 2 f0, H strong
 3 F2
 4 G0:
 5 F2:
 6 F0:
 7 G0

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97

8 | F5
 9 | g
 10 | A3
 11 | G3
 12 | G
 13 | ng
 14 | G2
 15 | G2
 16 | F2, H Strong
 17 | g5
 18 | G5
 19 | G5
 20 | G0:
 21 | F0:
 22 | K0:
 23 | F8:
 24 | G5
 25 | G0
 26 | G5:
 27 | G0
 28 | G0
 29 | G5
 30 | A2
 31 | G0:
 32 | G0:
 33 | F8:
 34 | k, overlap
 35 | K0
 36 | K0

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97

8 | F5
 9 | g
 10 | A3
 11 | G3
 12 | G
 13 | ng
 14 | G2
 15 | G2
 16 | F2, H strong
 17 | g5
 18 | G5
 19 | G5
 20 | G0:
 21 | F0:
 22 | K0:
 23 | F8:
 24 | G5
 25 | G0
 26 | G5:
 27 | G0
 28 | G0
 29 | G5
 30 | A2
 31 | G0:
 32 | G0:
 33 | F8:
 34 | k, overlap
 35 | K0
 36 | K0

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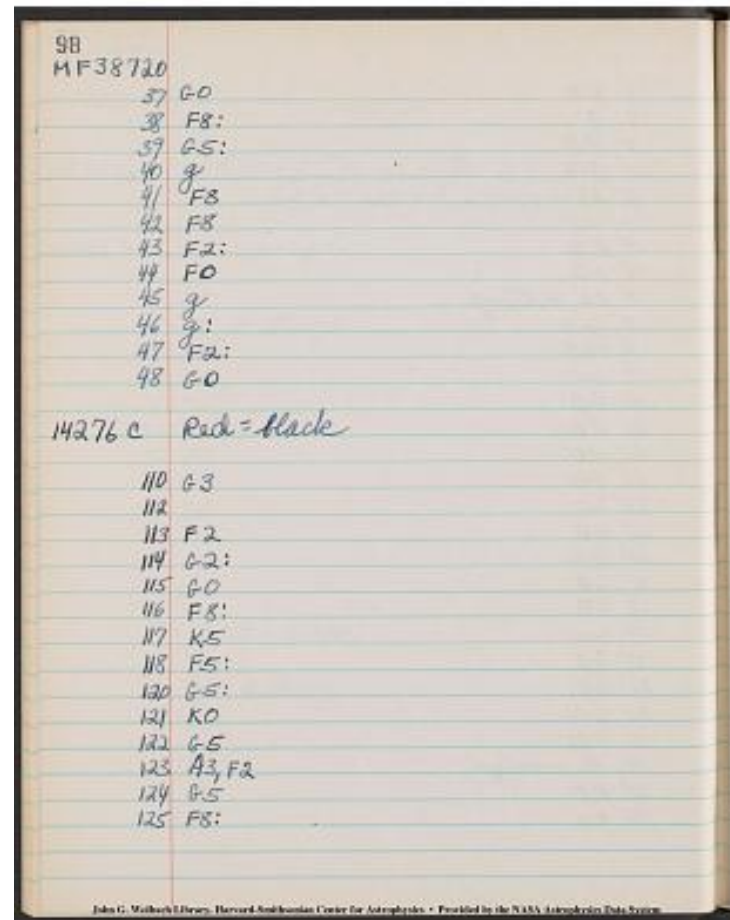
98
MF38720
[[2 columned table]]

37	G0
38	F8:
39	G5:
40	g
41	F8
42	F8
43	F2:
44	F0
45	g
46	g:
47	F2:
48	G0

14276C | Red=black

110	G3
112	F2
113	G2:
114	G0
116	F8:
117	K5
118	F5:
120	G5:
121	K0
122	G5
123	A3, F2
124	G5
125	F8:

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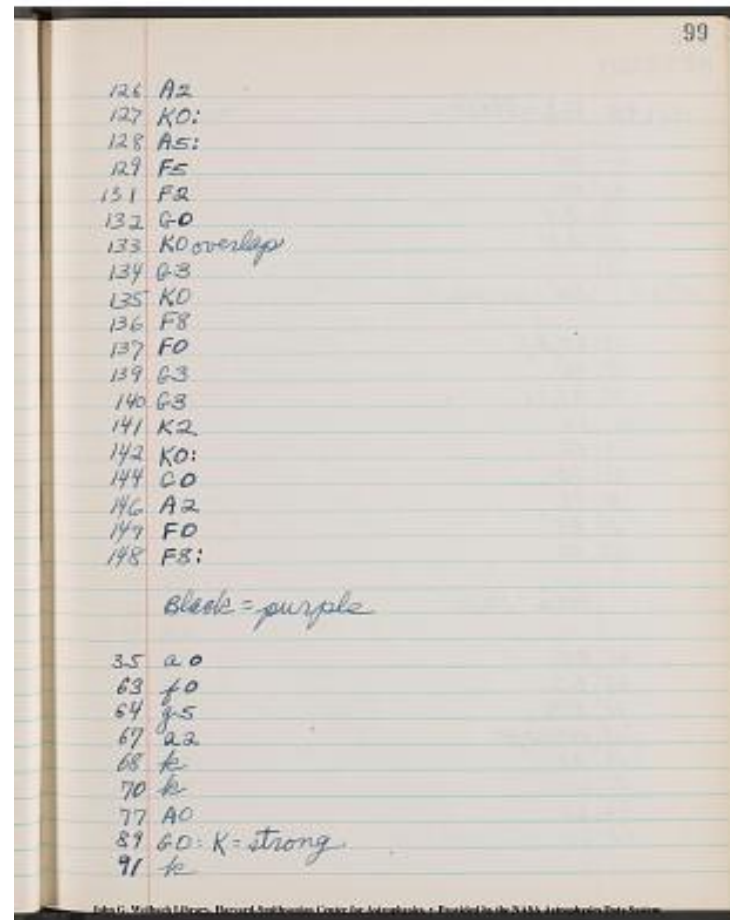
99
[[2 column table]]

126	A2
127	K0:
128	A5:
129	F5
131	F2
132	G0
133	Ko overlap
134	G3
135	K0
136	F8
137	F0
139	G3
140	G3
141	K2
142	K0:
144	G0
146	A2
147	F0
148	F8:

| Black = purple

35	a0
63	f0
64	g5
67	a2
68	k
70	k
77	A0
89	G0: K = strong
91	k

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100

MF38720

[[2 columned table]]

--- | ---

16069B | Red = black

35 | F8

36 | F0:

39 | k5

42 | k2:

14276E | Red = purple

103 | G5, def.

104 | F8:

105 | A5, F5

111 | F0

119 | F5

130 | G5

138 | F8

143 | A5

145 | A0

| Black = black

45 | F5

47 | K2

48 | F0:

49 | overlap

50 | A5

51 | G0

52 | G2:

53 | G0

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100	
MF38720	
16069B	Red = black
35	F8
36	F0:
39	k5
42	k2:
14276E	Red = purple
103	G5, def.
104	F8:
105	A5, F5
111	F0
119	F5
130	G5
138	F8:
143	A5
145	A0
	Black = black
45	F5
47	K2
48	F0:
49	overlap
50	A5
51	G0
52	G2:
53	G0

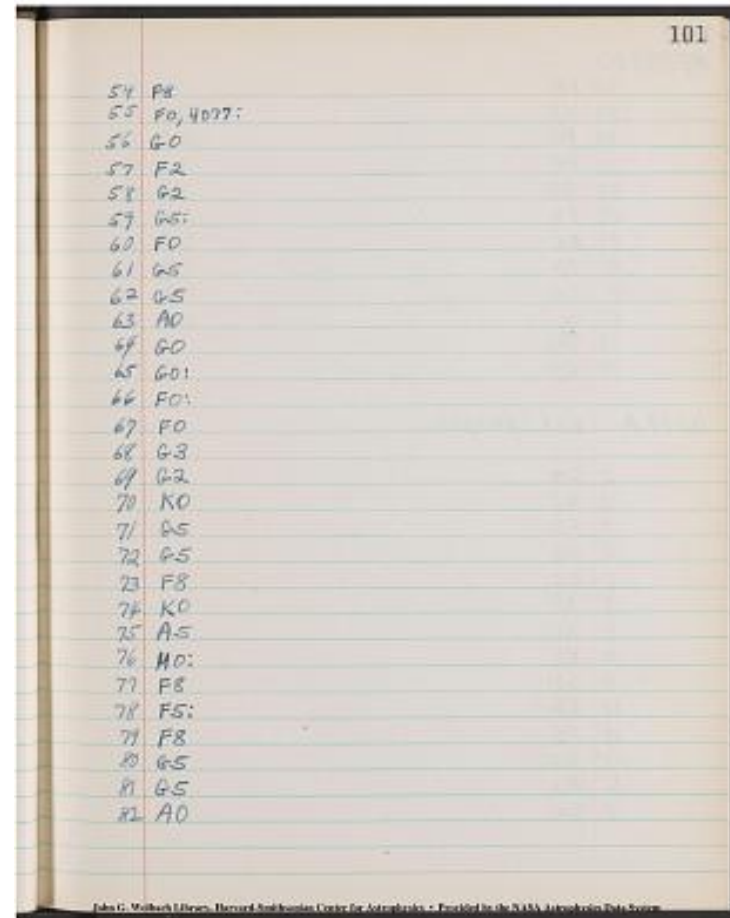
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101
 [[2 columned table]]
 --- ---
 54 F8
 55 F0, 4077:
 56 G0
 57 F2
 58 G2
 59 G5:
 60 F0
 61 G5
 62 G5
 63 A0
 64 G0
 65 G0:
 66 F0:
 67 F0
 68 G3
 69 G2
 70 K0
 71 G5
 72 G5
 73 F8
 74 K0
 75 A5
 76 M0:
 77 F8
 78 F5:
 79 F8
 80 G5
 81 G5
 82 A0

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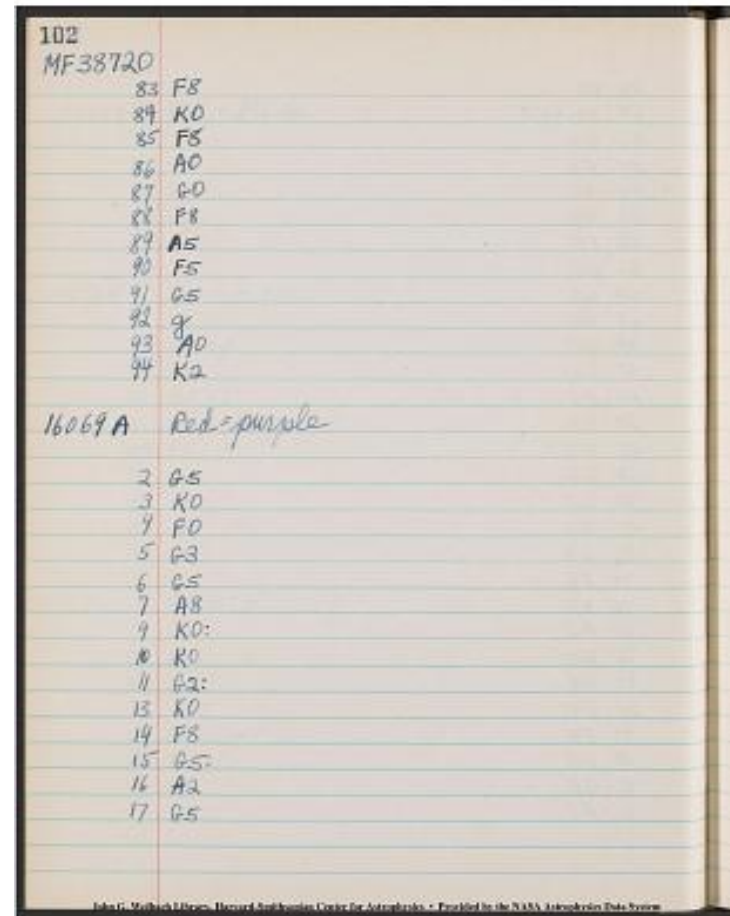
102
MF38720
[[2 Columned Table]]

83	F8
84	K0
85	F8
86	A0
87	G0
88	F8
89	A5
90	F5
91	G5
92	g
93	A0
94	K2

16069A | Red=purple

2	G5
3	K0
4	F0
5	G3
6	G5
7	A8
9	K0:
10	K0
11	G2:
13	K0
14	F8
15	G5:
16	A2
17	G5

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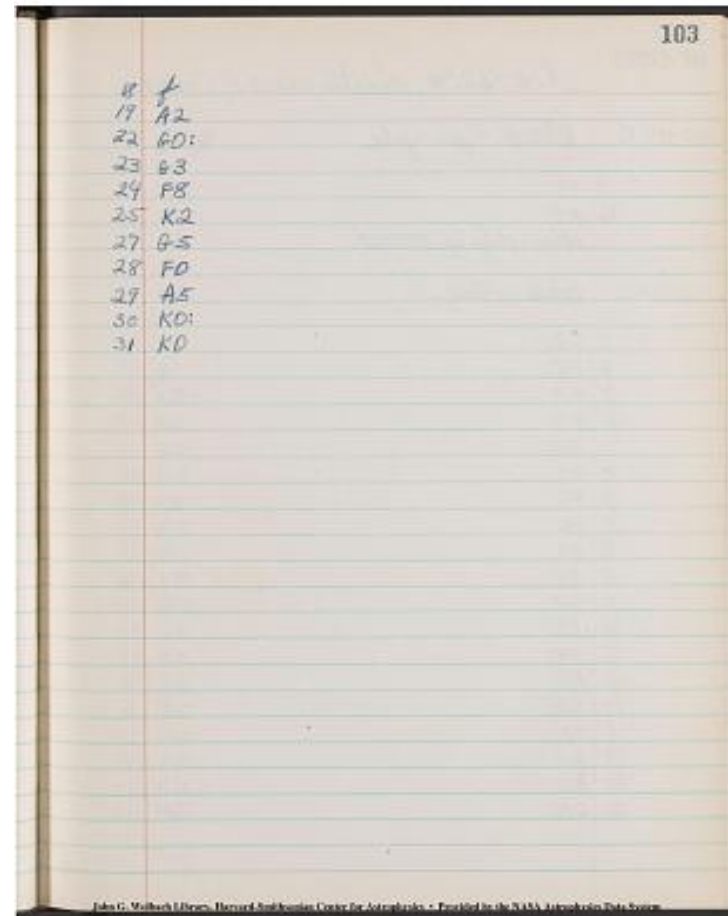


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[[2 Columned Table]]

18	f
19	A2
22	GO:
23	G3
24	F8
25	K2
27	G5
28	F0
29	A5
30	KO:
31	KO

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104

[[3 columned table]]

MF 37838		
6h 36 -62.4	4 Charts	16069E, 15417D

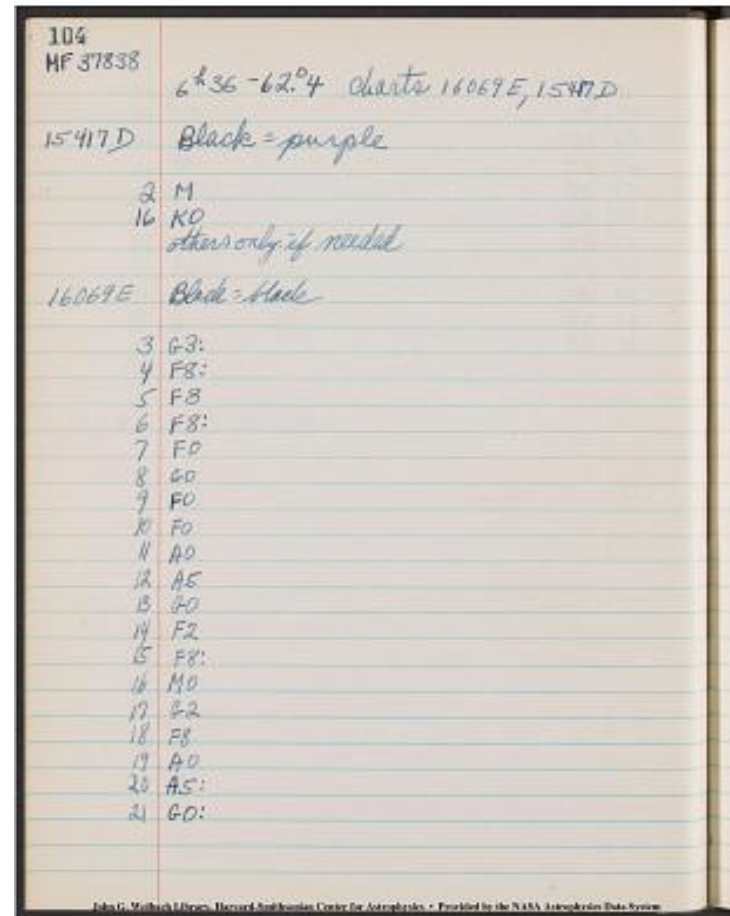
15417D | Black = Purple |

2	M
16	K0
others only if needed	

16069E | Black = black |

3	G3:
4	F8:
5	F8:
6	F8:
7	F0:
8	G0:
9	F0:
10	F0:
11	A0:
12	A5:
13	G0:
14	F2:
15	F8:
16	M0:
17	G2:
18	F8:
19	A0:
20	A5:
21	G0:

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105

[[2 Columned Table]]

22	G5
23	K0:
24	A2, A
25	G0
26	F8
27	F5:
28	A0
29	G2
30	K0
31	G0
32	G0:
33	g
34	K0
35	G5
36	G5:
37	F5
38	F5
39	A5
40	k
41	K0:
42	A0
43	G5
44	A0
45	g0
46	G5
47	F5:
48	F0:
49	A2
50	F0:

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22	G5
23	K0:
24	A2, #
25	G0
26	F8
27	F5:
28	A0
29	G2
30	K0
31	G0
32	G0:
33	g
34	K0
35	G5
36	G5:
37	F5
38	F5
39	A5
40	k
41	K0:
42	A0
43	G5
44	A0
45	g0
46	G5
47	F5:
48	F0:
49	A2
50	F0:

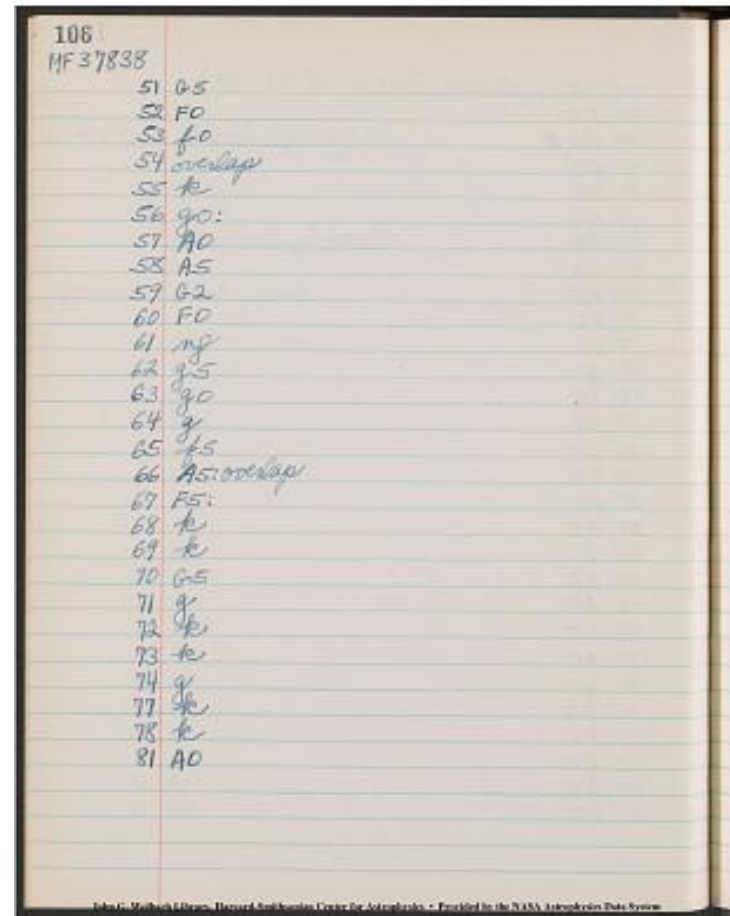
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106

MF37838
 [[2 column table]]
 ---|---

51	G5
52	F0
53	f0
54	overlap
55	k
56	g0:
57	A0
58	A5
59	G2
60	F0
61	ng
62	g5
63	g0
64	g
65	f5
66	A5: overlap
67	F5:
68	k
69	k
70	G5
71	g
72	k
73	k
74	g
77	k
78	k
81	A0

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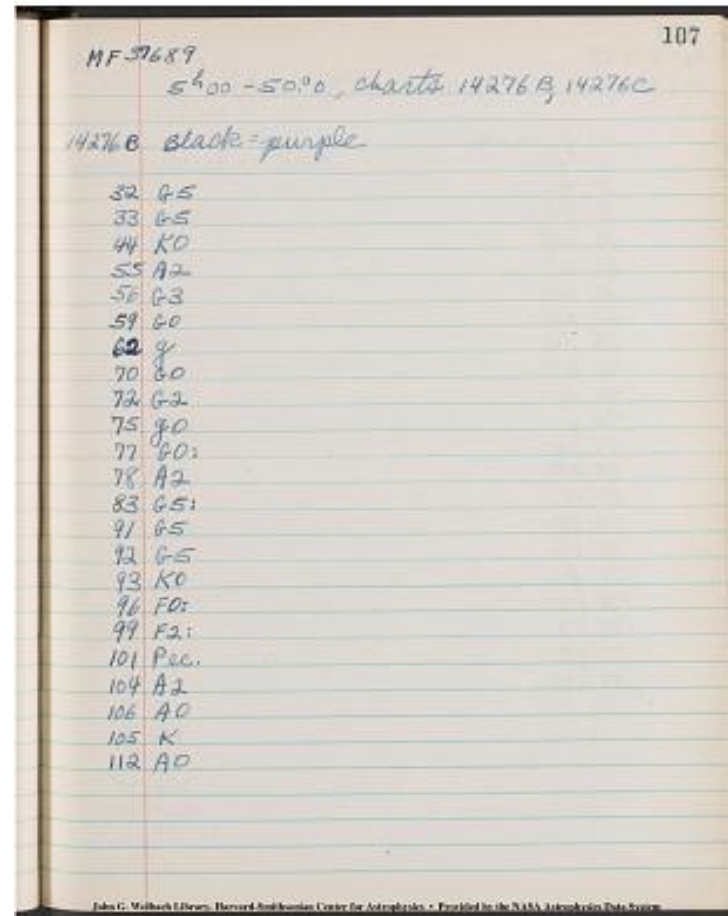
MF37689
5h00-50.0 o, charts 14276B, 14276C

[[2 columned table]]

14276B | Black=purple

32	G5
33	G5
44	K0
55	A2
56	G3
59	G0
62	g
70	G0
72	G2
75	g0
77	G0:
78	A2
83	G5:
91	G5
92	G5
93	K0
96	F0:
99	F2:
101	Pec.
104	A2
106	A0
105	K
112	A0

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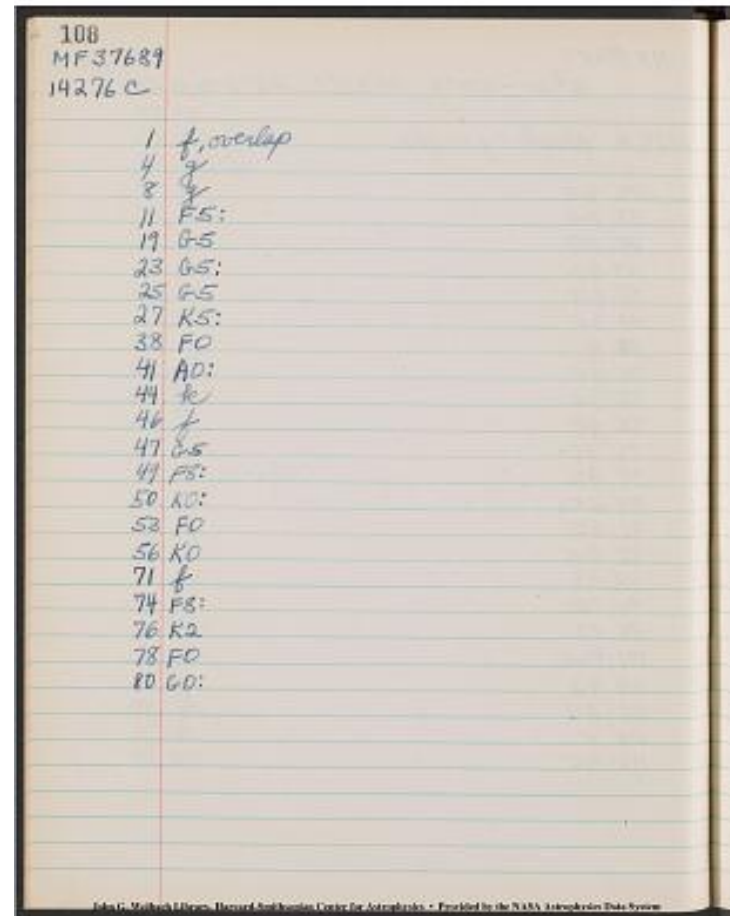
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108
MF37689
14276C

[[2 columnned table]]

---|---
1|f, overlap
4|g
8|g
11|F5:
19|G5
23|G5:
25|G5
27|K5:
38|F0
41|A0:
44|k
46|f
47|G5
49|F8:
50|K0:
53|F0
56|K0
71|f
74|F8:
76|K2
78|F0
80|G0:

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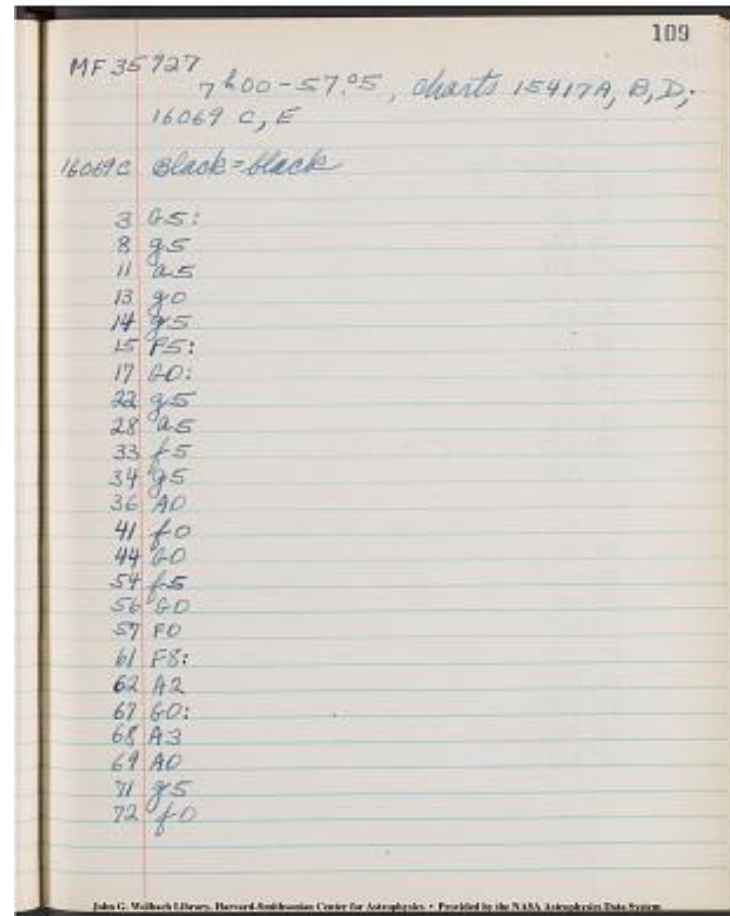
109
MF 35927
7^h[[h]] 00 -57.5° charts 15417A,B,D; 16069 C,E

[[2 column table]]

---|---
16069 | Black = black

3	G5:
8	g5
11	A5
13	g0
14	g5
15	F5:
17	G0:
22	g5
28	A5
33	f5
34	g5
36	A0
41	f0
44	G0
54	f5
56	G0
57	F0
61	F8:
62	A2
67	G0:
68	A3
69	A0
71	g5
72	f0

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110
Mf 35927

[[2 columned table]]

73	G5
74	g5
75	G0
83	A0, overlap
84	g5
86	G0
88	F5:
89	A0
90	F5:
92	A7
95	A0
96	g
97	A0
98	A2:
99	G5:
101	F5:
102	F2:
103	K2
104	G0:
106	G2
108	F0
109	K5:
110	G5:
112	K0:
113	A2
114	A0:
116	A0:

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110
MF 35927

73	G5
74	g5
75	G0
83	A0, overlap
84	g5
86	G0
88	F5:
89	A0
90	F5:
92	A7
95	A0
96	g
97	A0
98	A2:
99	G5:
101	F5:
102	F2:
103	K2
104	G0:
106	G2
108	F0
109	K5:
110	G5:
112	K0:
113	A2
114	A0:
116	A0:

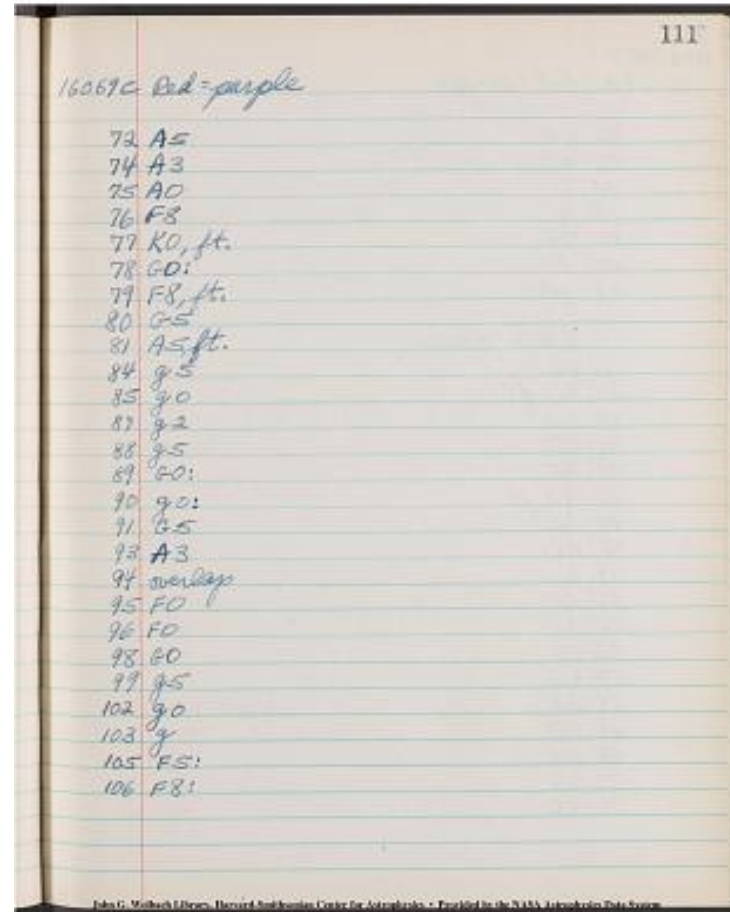
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16069c Red=purple

[[2 columned table]]

72	A5
74	A3
75	A0
76	F8
77	K0, ft
78	G0
79	F8, ft
80	G5
81	A5, ft
84	g5
85	g0
87	g2
88	g5
89	G0
90	g0
91	G5
93	A3
94	overlap
95	F0
96	F0
98	G0
99	g5
102	g0
103	g
105	F5:
106	F8:

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112
MF35927
16069E | Red= purple

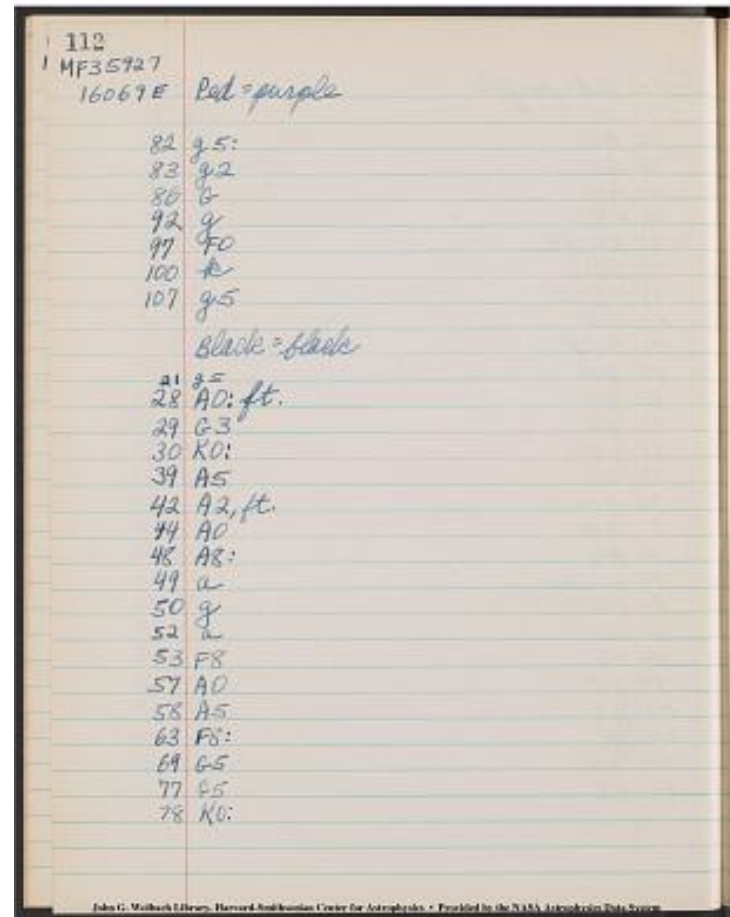
[[2 columned table]]

82	g5:
83	g2
86	G
92	g
97	F0
100	R
107	g5

| Black=black

21	g5
28	A0:ft.
29	G3
30	F0:
39	A5
42	A2, ft
44	A0
48	A8:
49	a
50	g
52	a
53	F8
57	A0
58	A5
63	F8
69	G5
77	G5
78	K0

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113

[[2 column table]]

--- | ---

79	f8
81	a
82	F0:
83	G2:

15417A | Black = purple

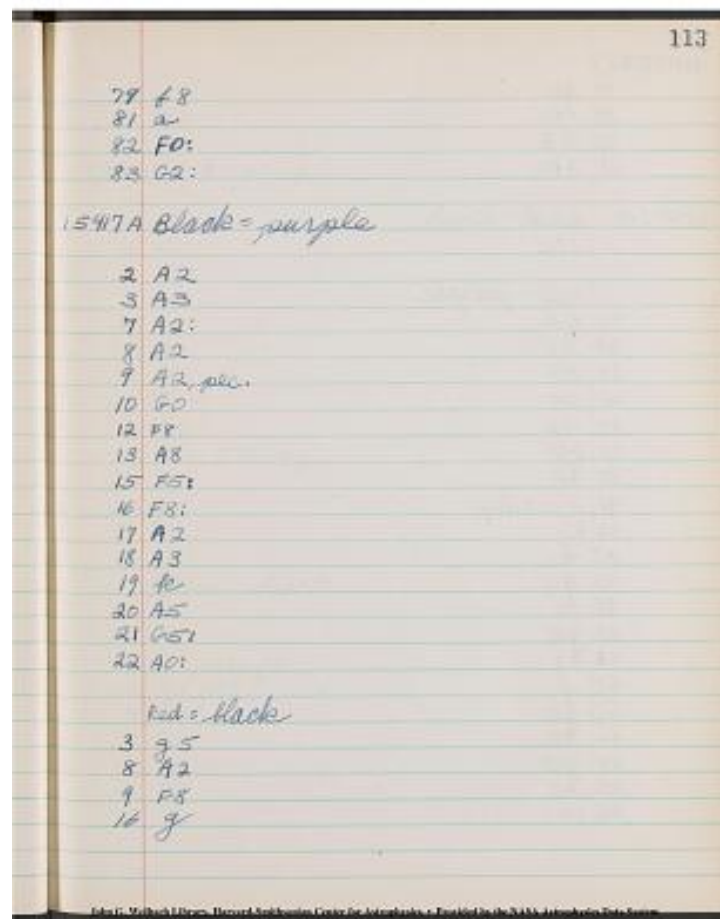
[[2 column table]]

--- | ---

2	A2
3	A3
7	A2:
8	A2
9	A2, pec.
10	G0
12	F8
13	A8
15	F5:
16	F8:
17	A2
18	A3
19	k
20	A5
21	G5:
22	A0:

	red = black
3	g5
8	A2
9	F8
16	g

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114
MF35927
[[2 column table]]

---	---
17	A0
20	F0
30	G3
31	A0

| 15417B | Black = black |
1 | F0: |

	Red = purple
25	A2
34	A8
35	A3
36	G5:
37	A2
38	G0:
40	A0
41	A, overlap
44	k'
45	k
46	A2
47	k
53	g5
56	A2
57	f
59	g5
61	A0
64	g3
65	A2
66	F0:

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114
MF35927

17	A0
20	F0
30	G3
31	A0

15417B Black = black
1 F0:

Red = purple

25	A2
34	A8
35	A3
36	G5:
37	A2
38	G0:
40	A0
41	A, overlap
44	k
45	k
46	A2
47	k
53	g5
56	A2
57	f
59	g5
61	A0
64	g3
65	A2
66	F0:

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115
 [[2 columned table]]
 ---|---
 68|g5
 69|A0

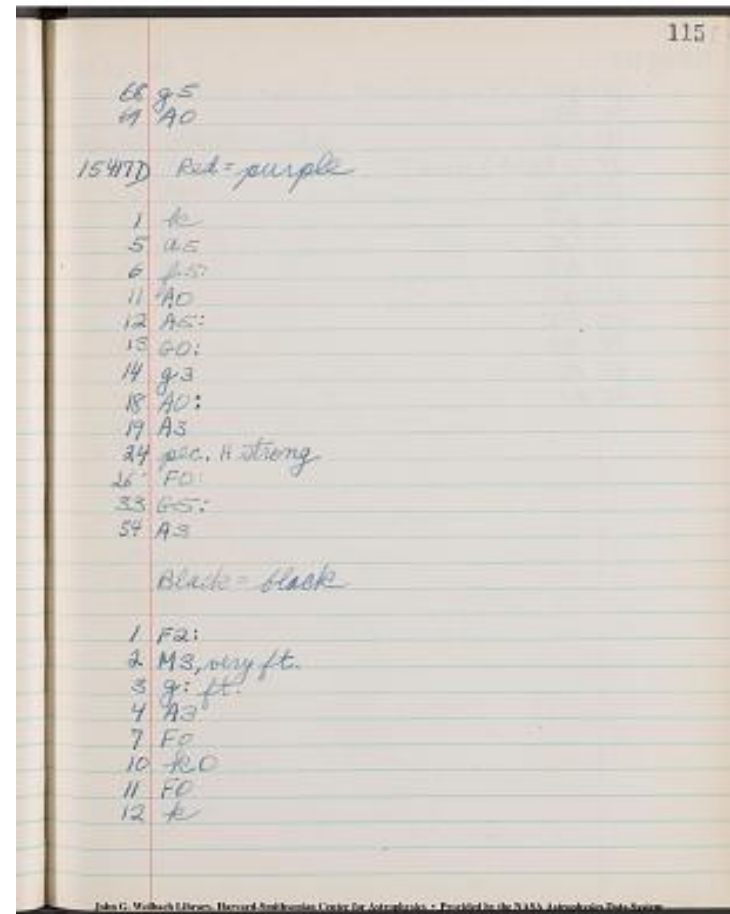
15417D|Red=purple

1|k
 5|A5
 6|f5:
 11|A0
 12|A5:
 13|G0:
 14|g3
 18|A0:
 19|A3
 24|pec. H strong
 26|F0:
 33|G5:
 54|A3

|Black=black

1|F2:
 2|M3, very ft.
 3|g:ft.
 4|A3
 7|F0
 10|k0
 11|F0
 12|k

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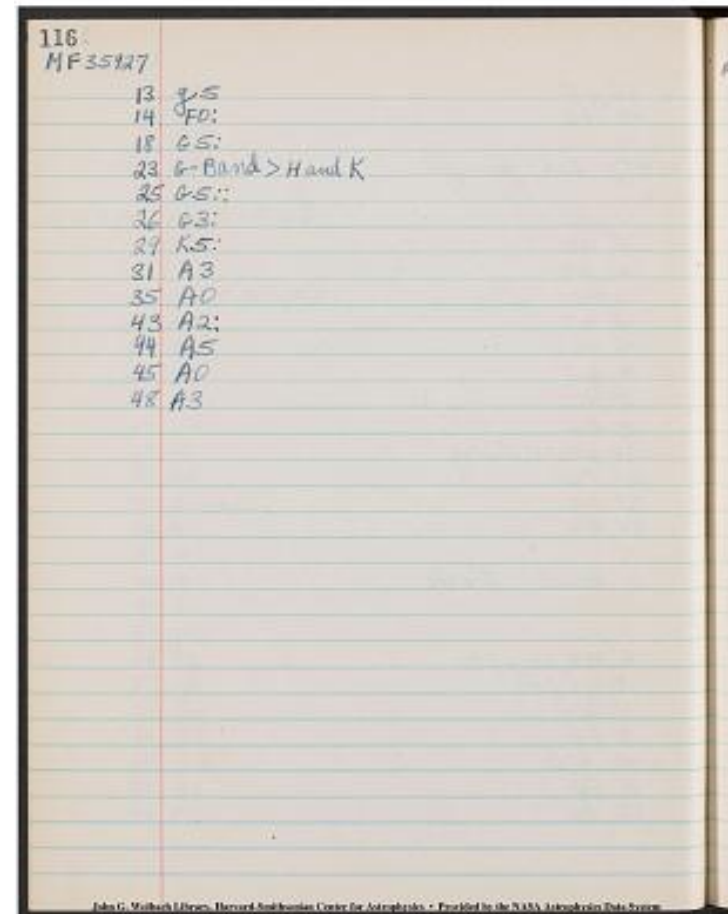
116

MF35927

[[2 columned table]]

13	g5
14	F0:
18	G5:
23	G-Band > H and K
25	G5::
26	G3:
29	K5:
31	A3
35	A0
43	A2:
44	A5
45	A0
48	A3

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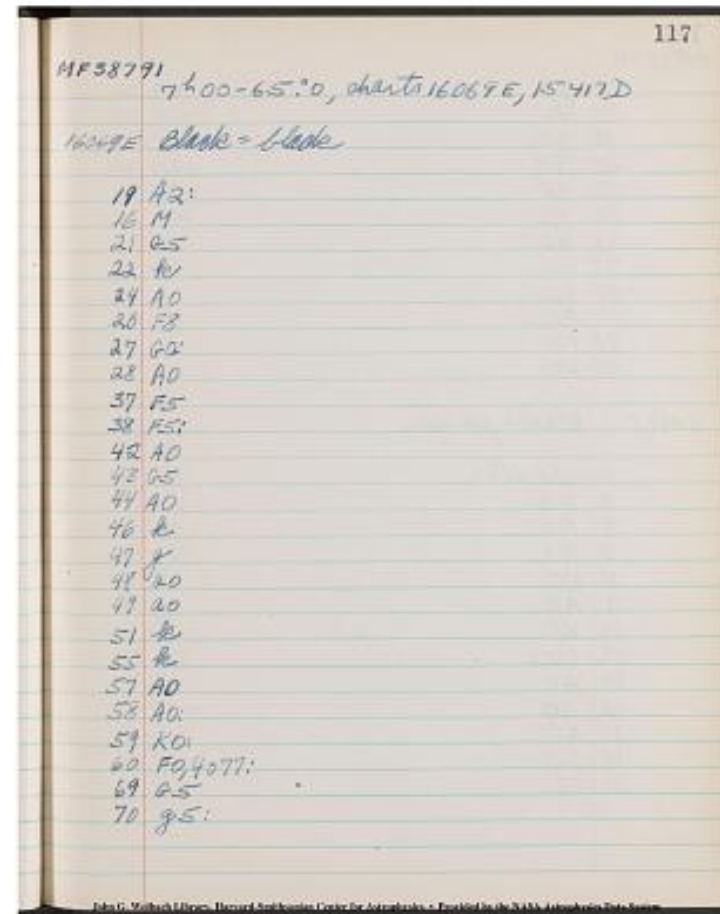
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117
MF38791
7^h[[h]]00-65.^h[[°]]0, charts 16069E, 15417D

[[2 column table]]
| --- | --- |
| 16069E | Black = black |

19	A2:
16	M
21	G5
22	k
24	A0
26	F8
27	G0:
28	A0
37	F5
38	F5:
42	A0
43	G5
44	A0
46	k
47	g
48	a0
49	a0
51	k
55	k
57	A0
58	A0:
59	K0:
60	F0,4077:
69	G5
70	g5:

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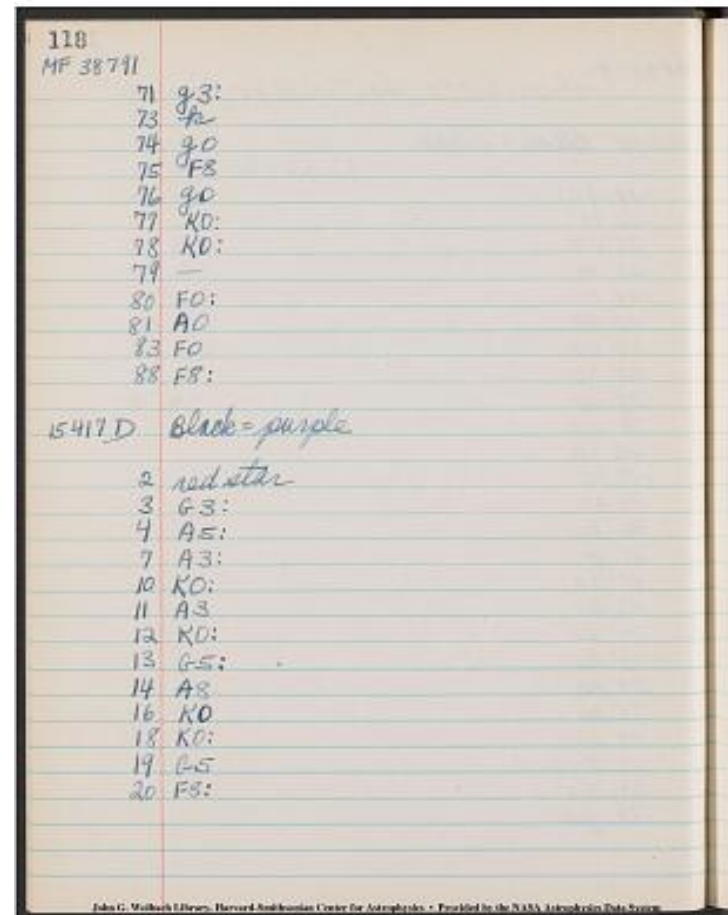
118
MF 38791
[[2 column table]]

---	---
71	g3:
73	k:
74	g0
75	F8
76	g0
77	K0:
78	K0:
79	--
80	F0:
81	A0
83	F0
88	F8:

| 15417D | Black = purple |

2	red star
3	G3:
4	A5:
7	A3:
10	K0:
11	A3
12	K0:
13	G5:
14	A8
16	K0
18	K0:
19	G5
20	F8:

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[[2 columned table]]

21	F0
22	g0
23	F2:
25	K0:
27	k
28	F5
29	M0
31	A3
34	g
35	A0
36	k
37	k
38	k
39	g3
40	k
41	A0
42	A3
43	A3
44	F0
45	A0
46	g
47	k
48	A2
49	g
50	k0
51	g5
54	g5
56	g

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21	F0
22	g0
23	F2:
25	K0:
27	k
28	F5
29	M0
31	A3
34	g
35	A0
36	k
37	k
38	k
39	g3
40	k
41	A0
42	A3
43	A3
44	F0
45	A0
46	g
47	k
48	A2
49	g
50	k0
51	g5
54	g5
56	g

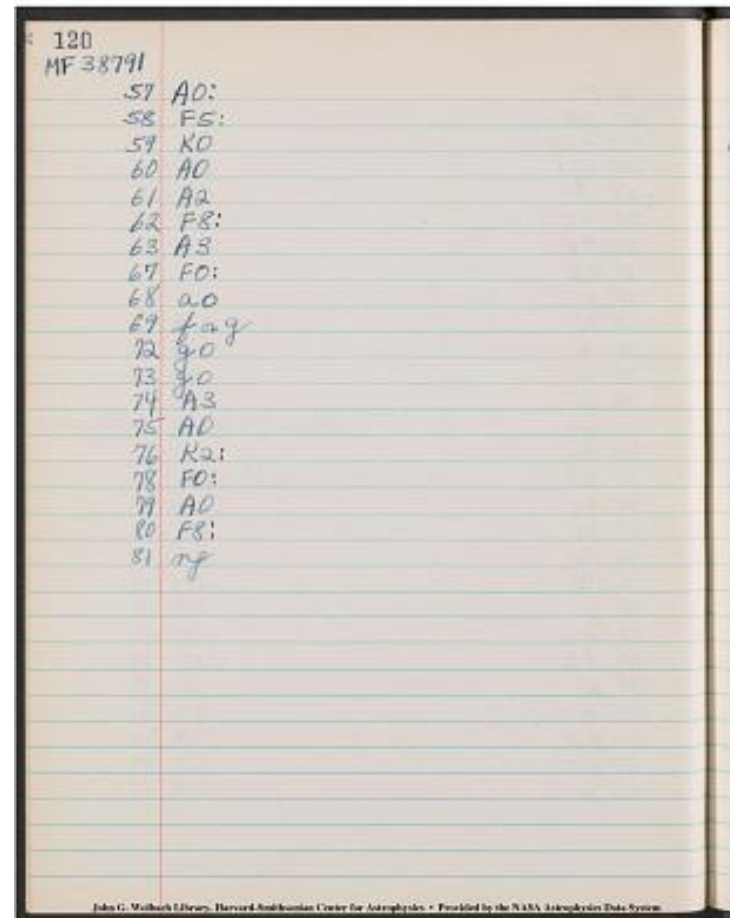
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120
MF 38791

[[2 column table]]
--- | ---

57	A0:
58	F5:
59	K0
60	A0
61	A2
62	F8:
63	A3
67	F0:
68	a0
69	f or g
72	g0
73	g0
74	A3
75	A0
76	K2:
78	F0:
79	A0
80	F8:
81	ng

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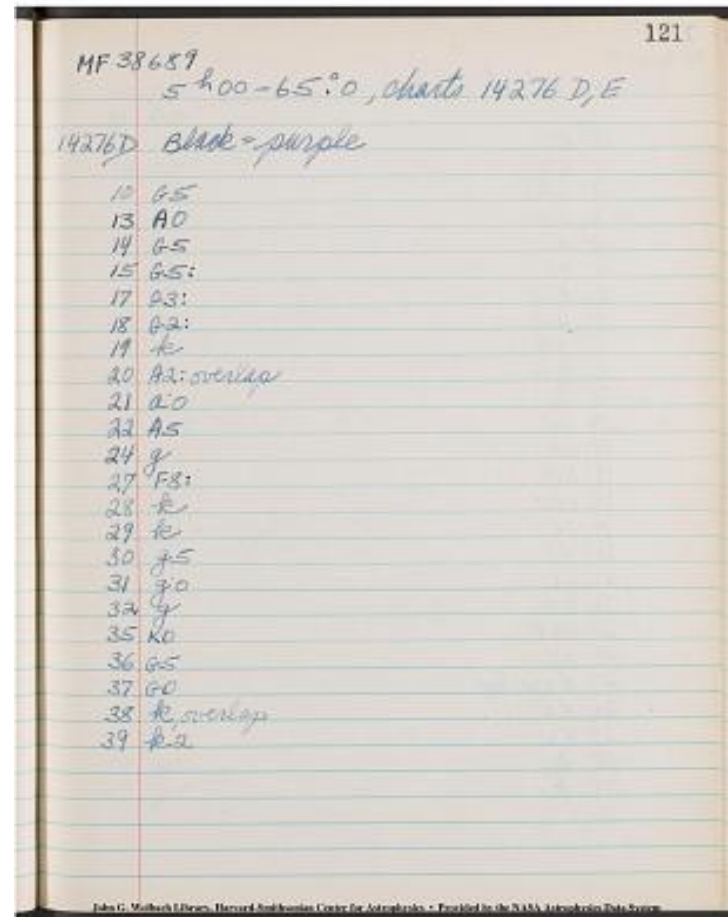
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Extracted Dec-02-2022 08:22:23

121
MF 38689
5^h00-65.^m00, charts 14276 D,E

[[2 column table]]
--- | --- |
14276D | Black = purple |

10	G5
13	A0
14	G5
15	G5:
17	G3:
18	G2:
19	k
20	A2:overlap
21	a0
22	A5
24	g
27	F8:
28	k
29	k
30	g5
31	g0
32	g
35	K0
36	G5
37	G0
38	k, overlap
39	k2

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122
MF38689
[[2 column table]]
---|---|
14276E | Black = black |

1	K0:
2	K0:
3	G2:
5	G5:
6	a
7	F8:
8	K0:
9	G5
11	g5
12	g0
13	a
14	G0
15	G5
17	K0
18	F0
19	F0
20	F8
21	G0
22	G3
23	F0:
24	G5
25	K overlap
26	K2
27	K2:
28	k
29	k

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122
MF38689
14276E *black = black*

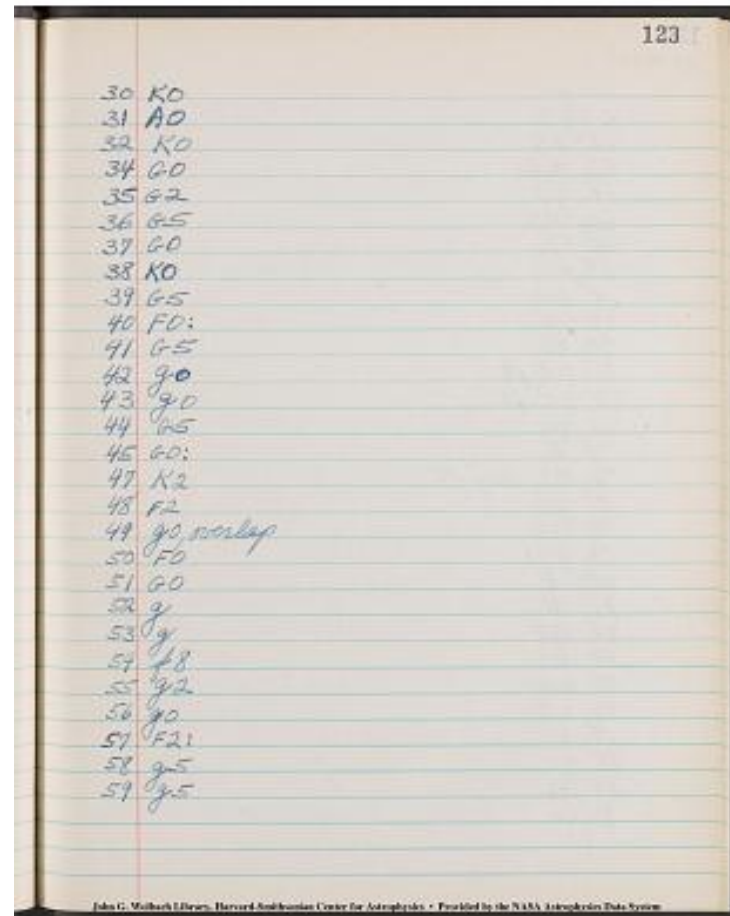
1	K0:
2	K0:
3	G2:
5	G5:
6	a.
7	F8:
8	K0:
9	G5
11	g5
12	g0
13	a
14	G0
15	G5
17	K0
18	F0
19	F0
20	F8
21	G0
22	G3
23	F0:
24	G5
25	K overlap
26	K2
27	K2:
28	k
29	k

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123
 [[2 columned table]]
 --- ---
 30 KO
 31 AO
 32 KO
 34 GO
 35 G2
 36 G5
 37 GO
 38 KO
 39 G5
 40 FO:
 41 G5
 42 go
 43 go
 44 G5
 45 GO:
 47 K2
 48 F2
 49 go, overlap
 50 FO
 51 GO
 52 g
 53 g
 54 f8
 55 g2
 56 go
 57 F2:
 58 g5
 59 g5

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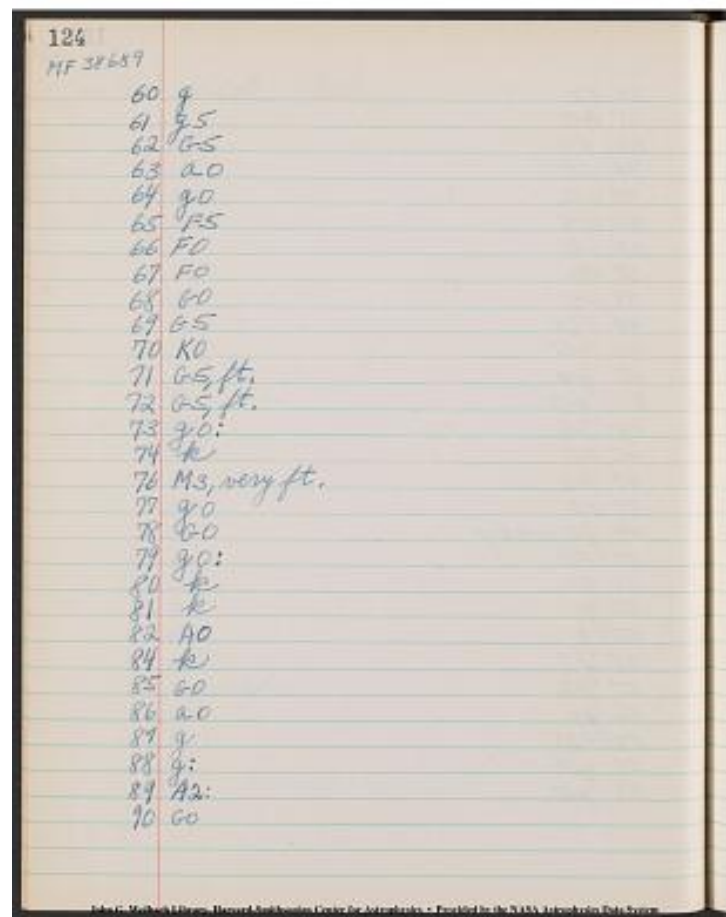


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124
MF 38689
[[2 column table]]

60	g
61	g5
62	G5
63	a0
64	g0
65	F5
66	F0
67	F0
68	G0
69	G5
70	K0
71	G5, ft.
72	G5, ft.
73	g0:
74	k
76	M3, very ft.
77	g0
78	G0
79	g0:
80	k
81	k
82	A0
84	k
85	G0
86	a0
87	g
88	g:
89	A2:
90	G0

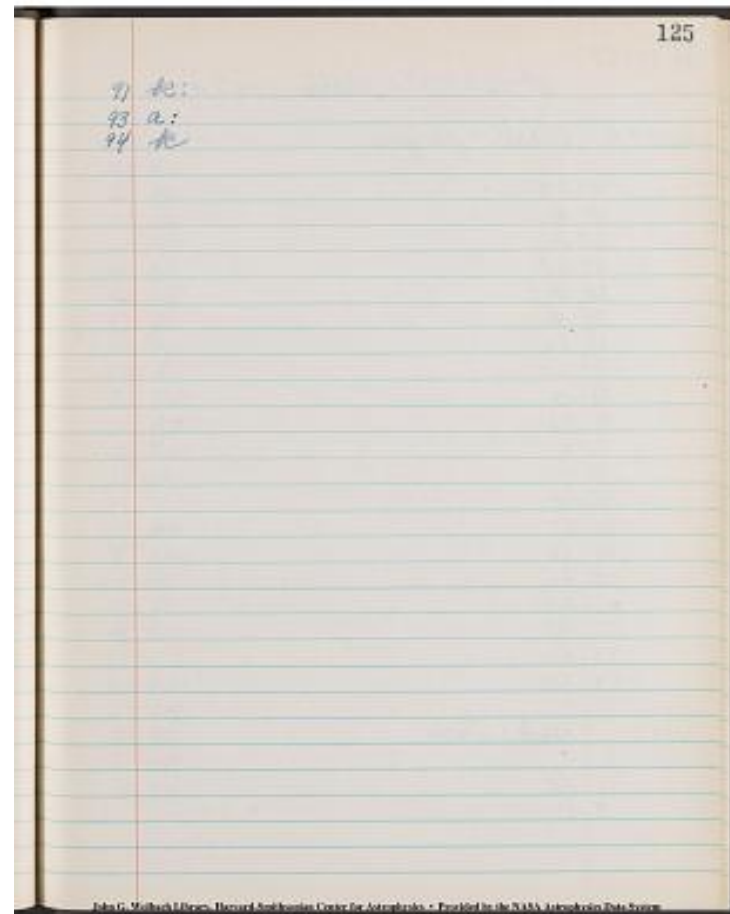
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125
[[2 column table]]
--- | ---
91 | k:
93 | a:
94 | k

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126
MF 37957
6^h00-50^m0^s, charts 16069A,B

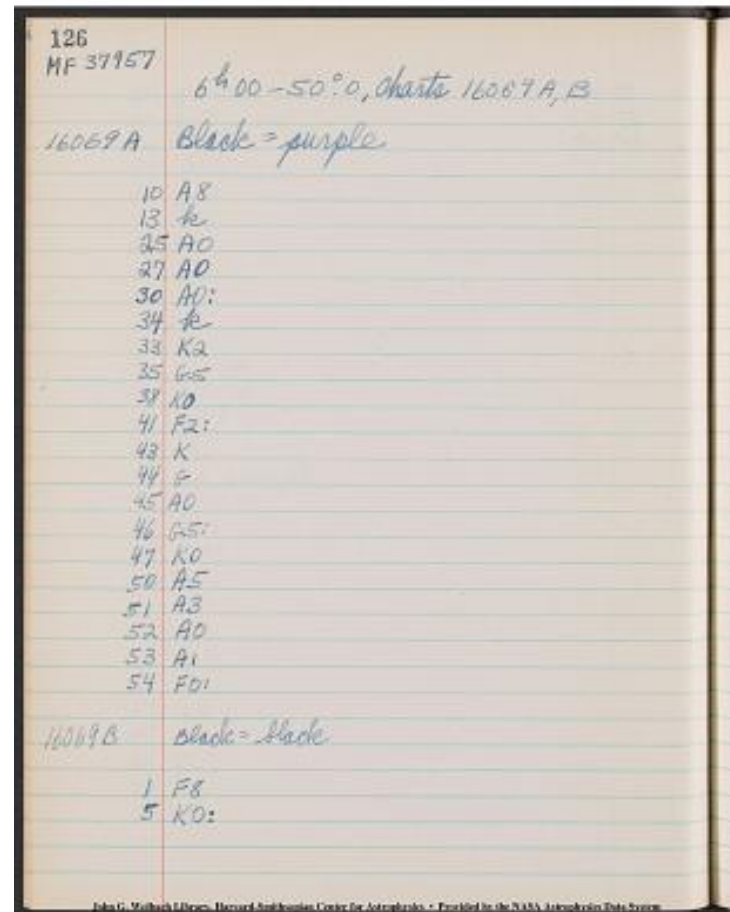
[[2 column table]]
16069A | Black = purple |

---	---
10	A8
13	k
25	A0
27	A0
30	A0:
34	k
33	K2
35	G5
38	K0
41	F2:
43	K
44	G
45	A0
46	G5:
47	K0
50	A5
51	A3
52	A0
53	A1
54	F0:

[[2 column table]]
16069B | Black = black |

---	---
1	F8
5	K0:

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[[2 column table]]

---	---
13	A3
14	G0
20	K0
21	K2:
22	M0
23	G0
24	F8:
25	A0
26	G5
27	g
29	G5
30	k
31	F8:
32	A0
36	K2:
38	g
39	F0
40	A5
44	K0:
45	K0
46	A3:
48	G0:
49	F0
56	G0:
57	A5:
58	A8
61	G5
70	K2:

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13	A3
14	G0
20	K0
21	K2:
22	M0
23	G0
24	F8:
25	A0
26	G5
27	g
29	G5
30	k
31	F8:
32	A0
36	K2:
38	g
39	F0
40	A5
44	K0:
45	K0
46	A3:
48	G0:
49	F0
56	G0:
57	A5:
58	A8
61	G5
70	K2:

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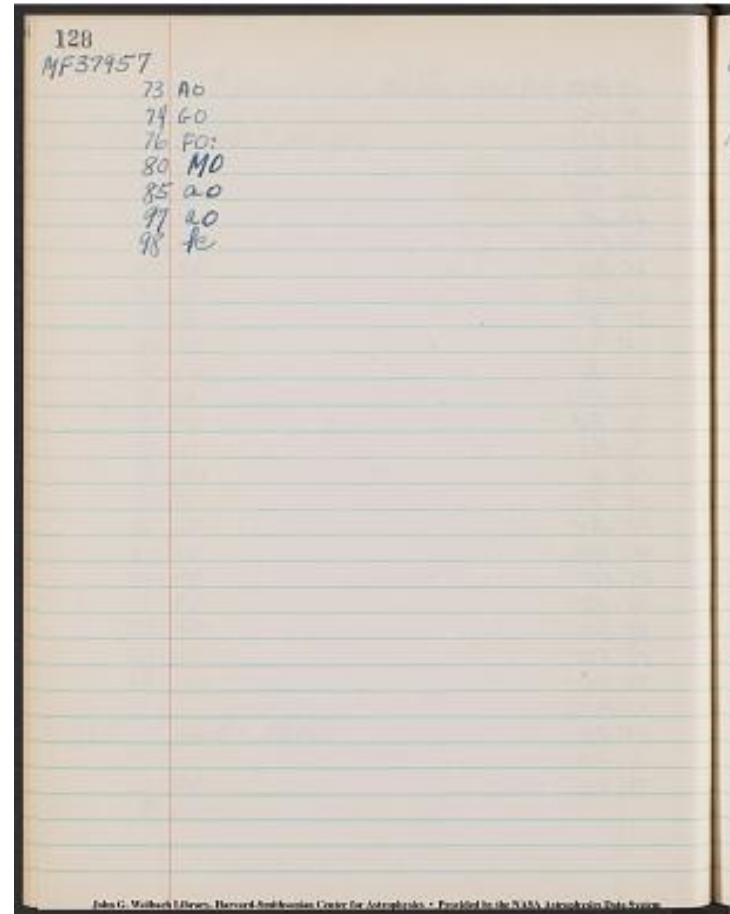
128

MF37957

[[2 Columned Table]]

---	---
73	A0
74	G0
76	F0:
80	M0
85	a0
97	a0
98	k

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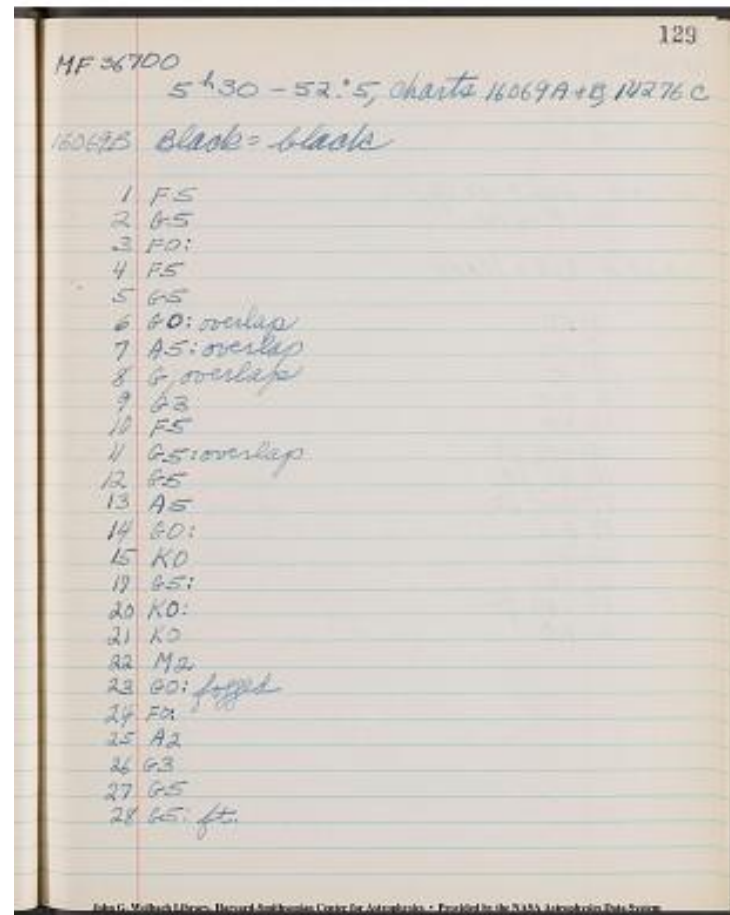
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129
 [[2 column table]]
 --- | --- |
 MF 36700 | |
 | 5^h[[h]]30 - 52.[^][[°]]5, charts 16069A + B, 14276C |

| 16069B | Black = black |

1	F5
2	G5
3	F0:
4	F5
5	G5
6	G0: overlap
7	A5: overlap
8	G, overlap
9	G3
10	F5
11	G5: overlap
12	G5
13	A5
14	G0:
15	K0
17	G5:
20	K0:
21	K0
22	M2
23	G0: fogged
24	F0:
25	A2
26	G3
27	G5
28	G5: ft.

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130
MF 36700
[[2 Columned Table]]

30	K0
31	F5:
34	F0:

16069B | Red = purple
39 | K or M0

16069A | Red = black

2	K0
5	G5
9	k
11	G5
13	K0
15	G5, ft.
16	A0, ft.
17	G5, ft.
19	A2
22	G0
23	G0:
24	G0: ft.
30	K0

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130
MF 36700

30	K0
31	F5:
34	F0:

16069B Red = purple
39 K or M0

16069A Red = black

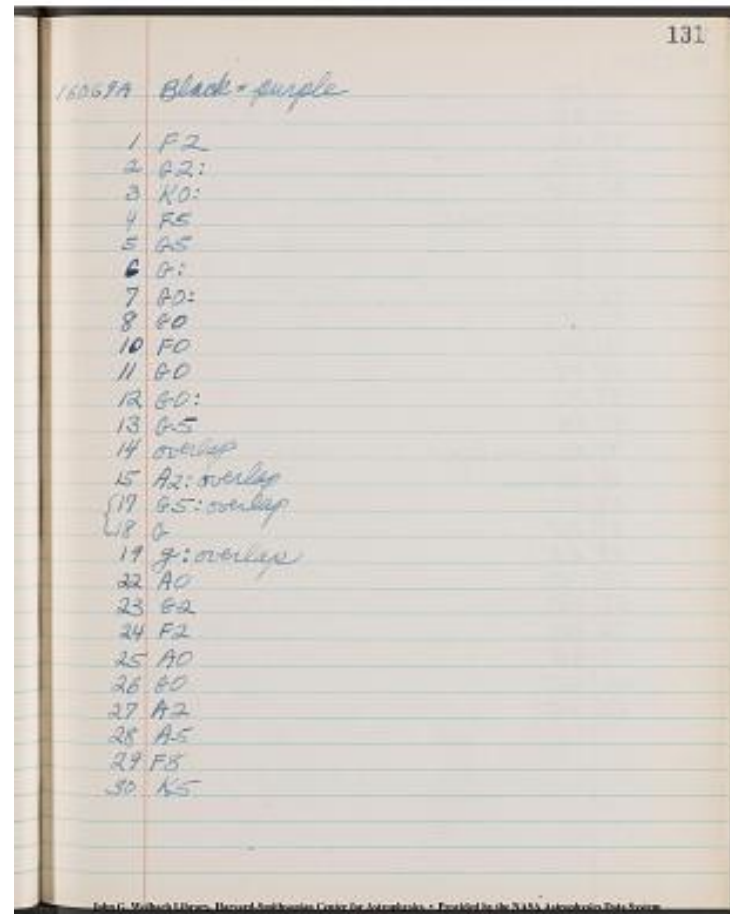
2	K0
5	G5
9	k
11	G5
13	K0
15	G5, ft.
16	A0, ft.
17	G5, ft.
19	A2
22	G0
23	G0:
24	G0: ft.
30	K0

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131
 [[2 Columned Table]]
16069A	Black = purple
 1|F2|
 2|G2:|
 3|K0:|
 4|F5|
 5|G5|
 6|G:|
 7|G0:|
 8|G0|
 10|F0|
 11|G0|
 12|G0:|
 13|G5|
 14|overlap|
 15|A2:overlap|
 17|G5:overlap|
 18|G|
 19|g: overlap|
 22|A0|
 23|G2|
 24|F2|
 25|A0|
 26|G0|
 27|A2|
 28|A5|
 29|F8|
 30|K5|

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132
MF36700

[[2 column table]]

---	---
31	F8
32	A5
33	K5
34	F0
35	G5
36	G5: overlap
37	G5:
38	K0
39	G0
40	G0:
41	F2:
42	F8
43	G5
44	F5
45	A2: overlap
46	G0:
47	K0:
48	F8
49	F8
50	F0
51	F0:
52	A0
53	A3
54	F5
55	G5

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132	
MF36700	
31	F8
32	A5
33	K5
34	F0
35	G5
36	G5: overlap
37	G5:
38	K0
39	G0
40	G0:
41	F2:
42	F8
43	G5
44	F5
45	A2: overlap
46	G0:
47	K0:
48	F8
49	F8
50	F0
51	F0:
52	A0
53	A3
54	F5
55	G5

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133

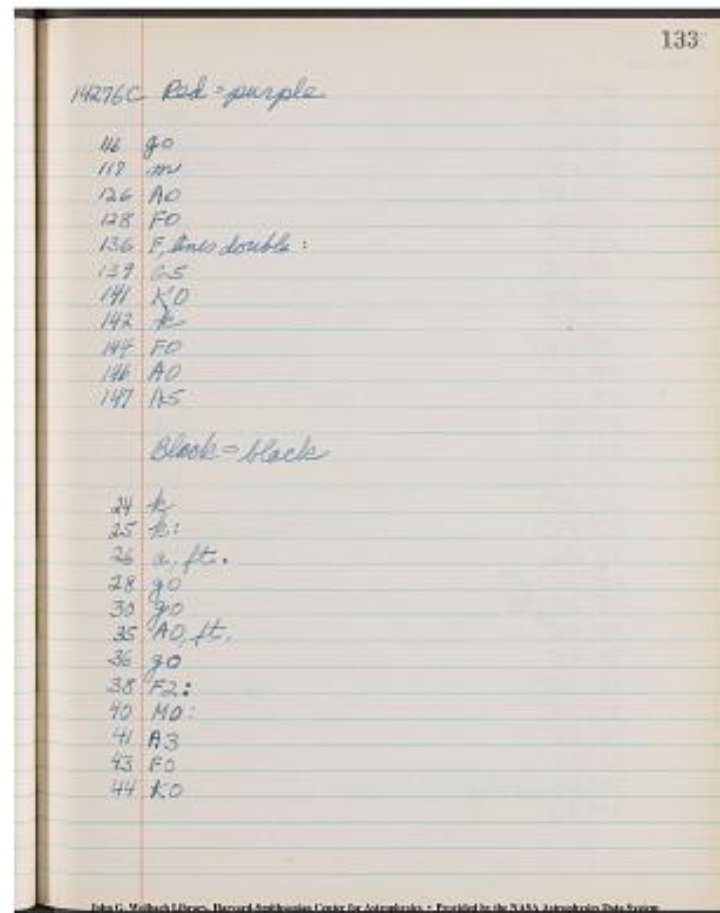
[[2 column table]]
14276C | red = purple |

116	g0
117	m
126	A0
128	F0
136	F, lines double:
139	G5
141	K0
142	k
144	F0
146	A0
147	A5

[[2 column table]]
black = black |

24	k
25	k:
26	a, ft.
28	g0
30	g0
35	A0, ft.
36	g0
38	F2:
40	M0:
41	A3
43	F0
44	K0

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134
MF36700

[[2 column table]]

---	---
46	G0
47	G5
48	G5:
49	F8
50	G5:
51	G2:
53	F2
54	F2:
55	G5
56	K0
57	G5:
58	F0:
59	G0
60	F2:
62	G0
63	F0
64	G5:
65	F8
67	A2
68	G5: ft.
69	G5: ft.
70	K0
71	F5
72	G5
73	G5
74	G3
75	G0
76	K0: overlap
77	A2

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134	MF36700
46	G0
47	G5
48	G5:
49	F8
50	G5:
51	G2:
53	F2
54	F2:
55	G5
56	K0
57	G5:
58	F0:
59	G0
60	F2:
62	G0
63	F0
64	G5:
65	F8
67	A2
68	G5: ft.
69	G5: ft.
70	K0
71	F5
72	G5
73	G5
74	G3
75	G0
76	K0: overlap
77	A2

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[[2 column table]]

---	---
78	F2
79	G0:
80	F5
81	G5, ft.
82	G5
83	A8
84	F0
85	F5
86	G5
87	F5
88	A5
89	F8:
90	G5
91	K0:
92	A2
93	G5
94	G5
95	G, very faint
96	F0
97	g
98	A0
99	F8
100	G5
101	g, overlap
102	F0
103	G5
104	G0
105	A5
106	G0

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78	F2
79	G0:
80	F5
81	G5, ft.
82	G5
83	A8
84	F0
85	F5
86	G5
87	F5
88	A5
89	F8:
90	G5
91	K0:
92	A2
93	G5
94	G5
95	G, very faint
96	F0
97	g
98	A0
99	F8
100	G5
101	g, overlap
102	F0
103	G5
104	G0
105	A5
106	G0

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136

MF36700

[[2 Columned Table]]

---	---
107	GO:
108	F5
109	K0
110	GO
111	K0
112	G5
113	G5
114	GO
115	A8
116	G5
117	G5
119	G3
120	F8:
121	F5

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A photograph of a handwritten table on lined paper. The table has two columns. The first column contains numbers 107 through 121, with 118 missing. The second column contains spectral classifications. The handwriting is in blue ink. The paper is slightly aged and has horizontal lines. The number 136 is written in the top left corner of the page.

136	
107	GO:
108	F5
109	K0
110	GO
111	K0
112	G5
113	G5
114	GO
115	A8
116	G5
117	G5
119	G3
120	F8:
121	F5

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137
MF38783 8^[[h]] 00 -65^[[°]].0 Charts 15417 D,E

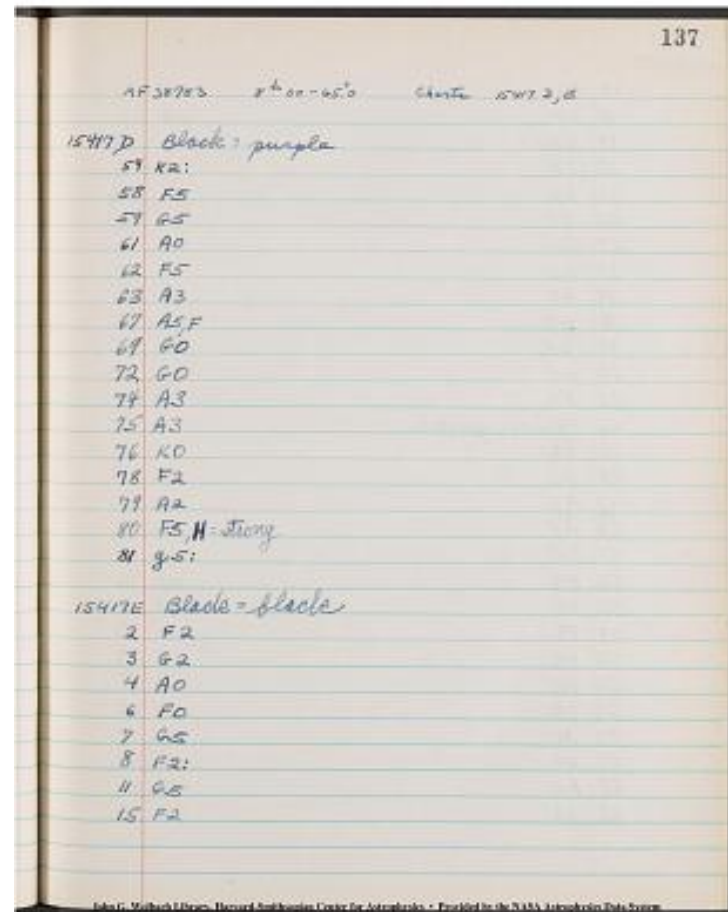
[[2 column table]]
15417D | Black = purple |

54	K2:
58	F5:
59	G5:
61	A0:
62	F5:
63	A3:
67	A5,F:
69	G0:
72	G0:
74	A3:
75	A3:
76	K0:
78	F2:
79	A2:
80	F5, H = strong:
81	g5:

[[2 column table]]
15417E | Black = black |

2	F2:
3	G2:
4	A0:
6	F0:
7	G5:
8	F2:
11	G5:
15	F2:

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138
MF38783

[[2 column table]]

17	A2
18	G0
19	G5:
20	F0
21	G5
22	F0
25	G0:
27	G2
29	A2
30	G0
31	G5
32	G0
33	F8
36	F8: overexposed
38	B9:
40	G2
47	A2
49	A0
50	A0
51	G0
52	F8
53	F0
54	F8
55	F5
56	F0
57	F8:
58	A0
59	A0
60	A3
62	A2

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138	
MF38783	
17	A2
18	G0
19	G5:
20	F0
21	G5
22	F0
25	G0:
27	G2
29	A2
30	G0
31	G5
32	G0
33	F8
36	F8: overexposed
38	B9:
40	G2
47	A2
49	A0
50	A0
51	G0
52	F8
53	F0
54	F8
55	F5
56	F0
57	F8:
58	A0
59	A0
60	A3
62	A2

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[[2 column table]]

---	---
63	K0
64	A5
65	F8
67	A0
68	A2
69	A2
70	F0
72	A0
73	G0:
74	F0
75	B9
76	ny
77	F2
78	F
79	-
81	A5
82	A5
83	A3
84	G2
85	A5
86	A2
87	K2
88	G0
89	A3
90	A5
91	F0
92	A0
93	g
95	A0

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63	K0
64	A5
65	F8
67	A0
68	A2
69	A2
70	F0
72	A0
73	G0:
74	F0
75	B9
76	ny
77	F2
78	F
79	-
81	A5
82	A5
83	A3
84	G2
85	A5
86	A2
87	K2
88	G0
89	A3
90	A5
91	F0
92	A0
93	g
95	A0

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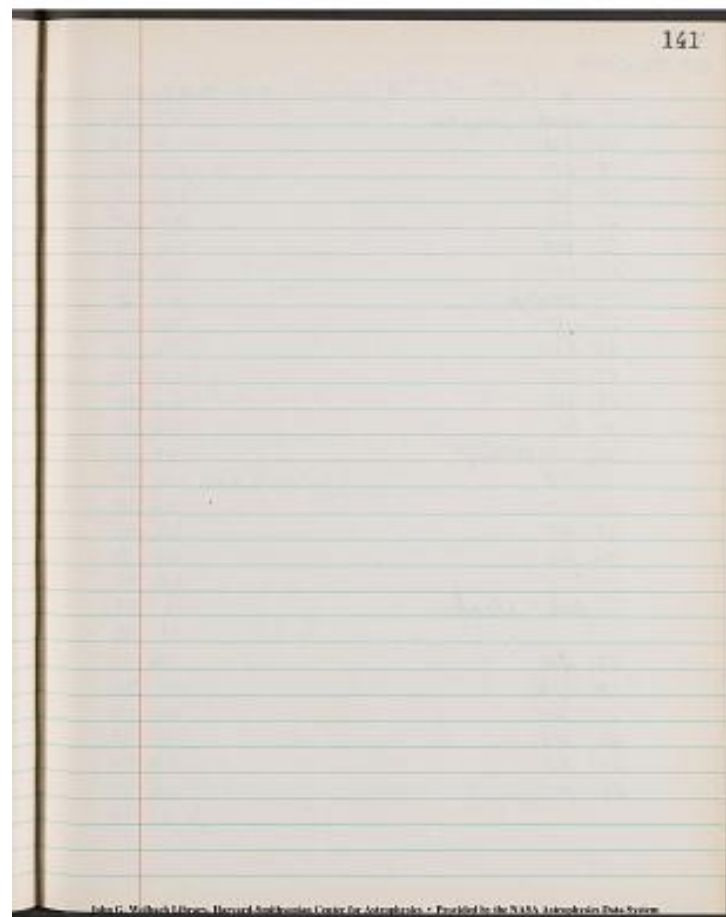
140
MF 37860 8^h 00 -50^m 15417B

[[2 column table]]
15417B	Black = purple
31 | G5 |
35 | A0 |
36 | A0 |
37 | A, overlap |
39 | A0: def. |
40 | F8: |

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140
MF 37860 8^h 00 -50^m 15417B
15417B Black = purple
31 G5
35 A0
36 A0
37 A, overlap
39 A0: def.
40 F8:

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142
MF 36009
8h00 -57.5°, charts 15417 B,C,D,E

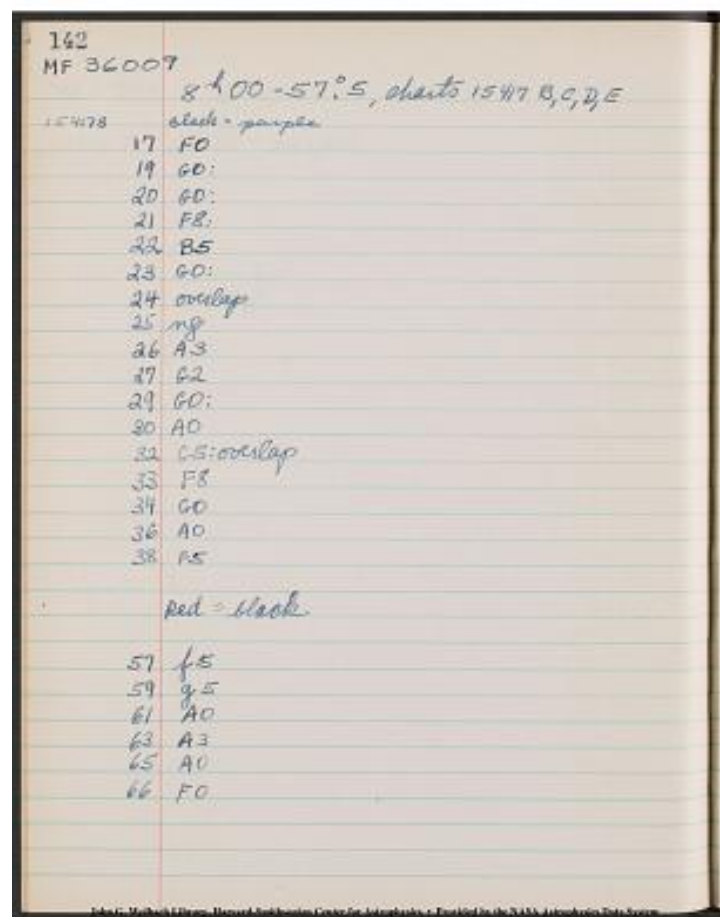
[[2 column table]]
15417B | Black = purple |

17	F0
19	G0:
20	G0:
21	F8:
22	B5
23	G0:
24	overlap
25	ng
26	A3
27	G2
29	G0:
30	A0
32	G5: overlap
33	F8
34	G0
36	A0
38	F5

[[2 column table]]
Red = black |

57	f5
59	g5
61	A0
63	A3
65	A0
66	F0

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[[2 Columned Table]]

67	G5
68	G5
69	A0
70	K2
71	G3
72	ng
73	g
75	F0:
76	A5
77	F0
78	K0
79	A2
80	G5
82	F0
83	A0
84	F2: line -- to red of H
85	F0
86	A0
87	F0
88	A2
90	G0
91	A0
92	A3
94	G0:
95	G5
96	F5
97	A3
98	G0:
99	A3, def.

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67	G5
68	G5
69	A0
70	K2
71	G3
72	ng
73	g
75	F0:
76	A5
77	F0
78	K0
79	A2
80	G5
82	F0
83	A0
84	F2: line -- to red of H
85	F0
86	A0
87	F0
88	A2
90	G0
91	A0
92	A3
94	G0:
95	G5
96	F5
97	A3
98	G0:
99	A3, def.

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144
MF36009

[[2 Columned Table]]

100	G5
101	A3
102	G0
103	G0
104	A2
105	[[/strickethrough]] G5 [[/strickethrough]] overlap
106	G5
107	G5:
108	A2
109	F5:
110	F5:
111	A2
112	G5
113	G5
114	A0:
115	G5: overlap
116	A2
117	G5
118	G5
119	F8
120	K0
121	K0:
122	A0
123	M0:
124	G5
125	K0
126	F8
127	G5

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144	
MF36009	
100	G5
101	A3
102	G0
103	G0
104	A2
105	G5 overlap
106	G5:
107	G5:
108	A2
109	F5:
110	F5:
111	A2
112	G5
113	G5
114	A0:
115	G5: overlap
116	A2
117	G5
118	G5
119	F8
120	K0
121	K0:
122	A0
123	M0:
124	G5
125	K0
126	F8
127	G5

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145

[[2 column table]]

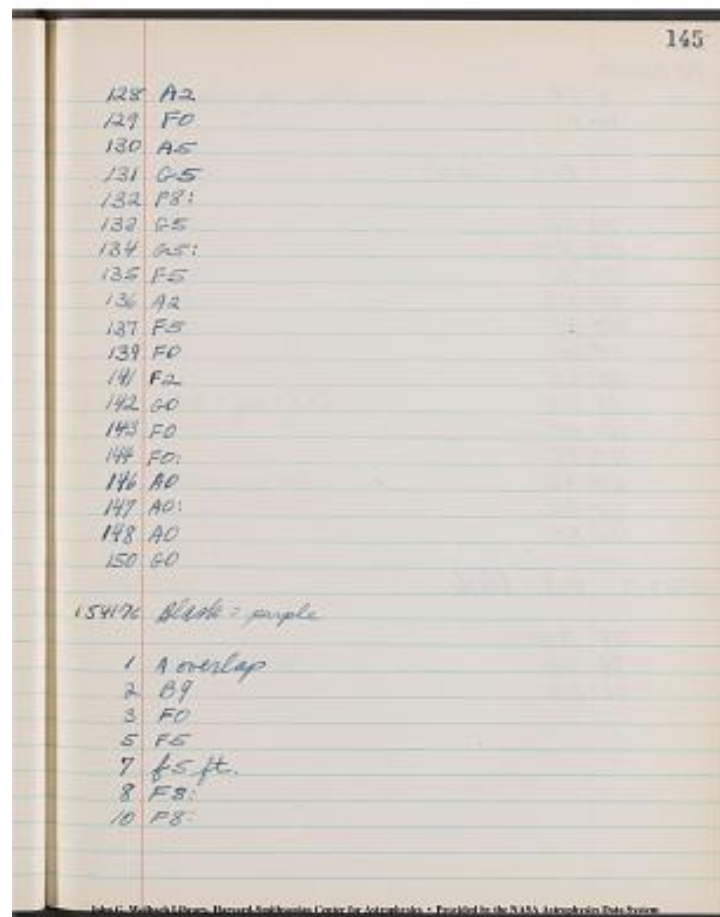
128	A2
129	F0
130	A5
131	G5
132	F8:
133	G5
134	G5:
135	F5
136	A2
137	F5
139	F0
141	F2
142	G0
143	F0
144	F0:
146	A0
147	A0:
148	A0
150	G0

[[2 column table]]

15417c | Black = purple |

1	A overlap
2	B9
3	F0
5	F5
7	f5 ft.
8	F8:
10	F8:

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146
MF36009

[[2 column table]]

11	F0
14	F

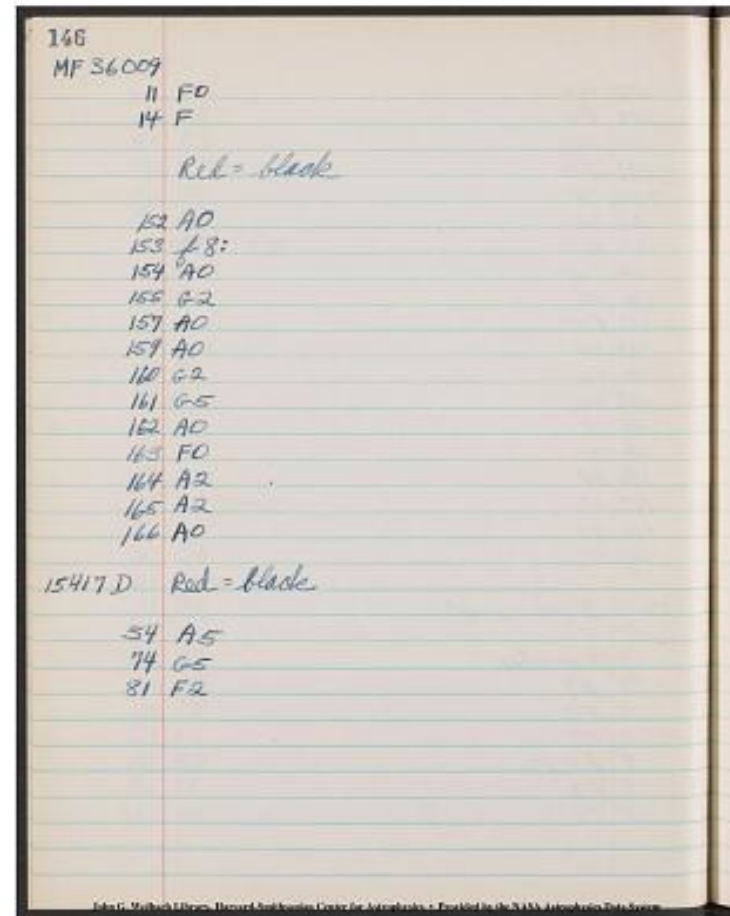
[[2 column table]]

	Red = black
152	A0
153	f8:
154	A0
155	G2
157	A0
159	A0
160	G2
161	G5
162	A0
163	F0
164	A2
165	A2
166	A0

[[2 column table]]

15417D	Red = black
54	A5
74	G5
81	F2

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147

[[2 column table]]
| Black = purple |

52	F8
57	A2:
63	A2:
68	A2
70	F8:
71	ny
72	ng
76	K0
77	g5

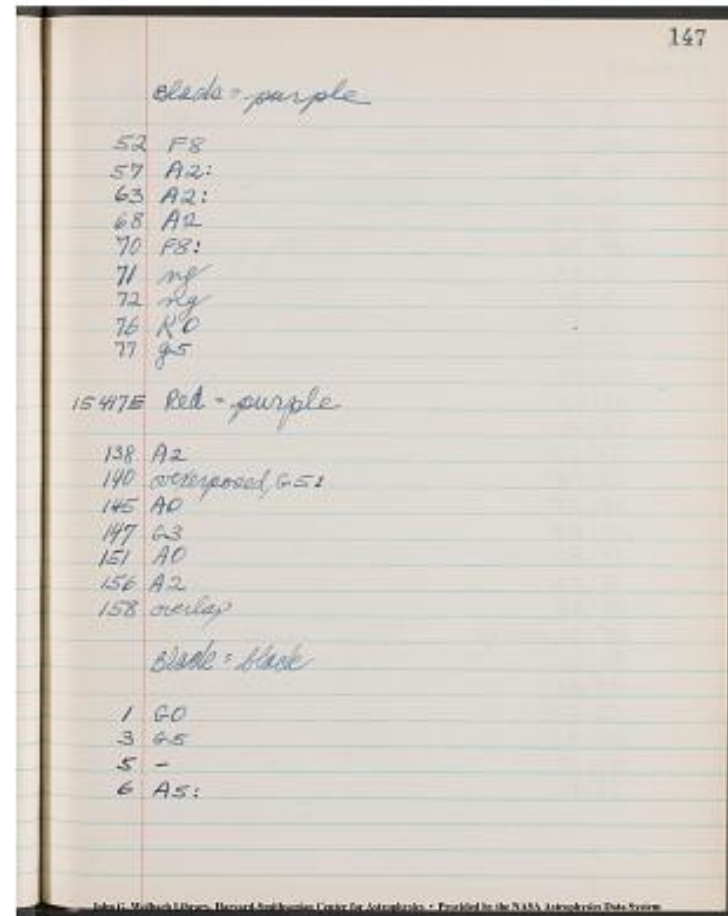
[[2 column table]]
| 15417E | Red = purple |

138	A2
140	overexposed, G5:
145	A0
147	G3
151	A0
156	A2
158	overlap?

[[2 column table]]
| Black = black |

1	G0
3	G5
5	-
6	A5:

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148
MF36009

[[2 column table]]

---	---
9 -	
10 -	
11 G2	
12 F8	
13 A0	
14 F8	
16 A3	
17 A2	
26 A0	
28 A0	
30 G2:	
31 G5	
34 F5:	
35 G5	
36 F8	
37 K0	
38 B9	
39 A0	
40 G2	
44 A0	
46 A0: overlap	
48 F0	
49 A2	
52 F5	
56 A5	
57 F8	
59 A0	

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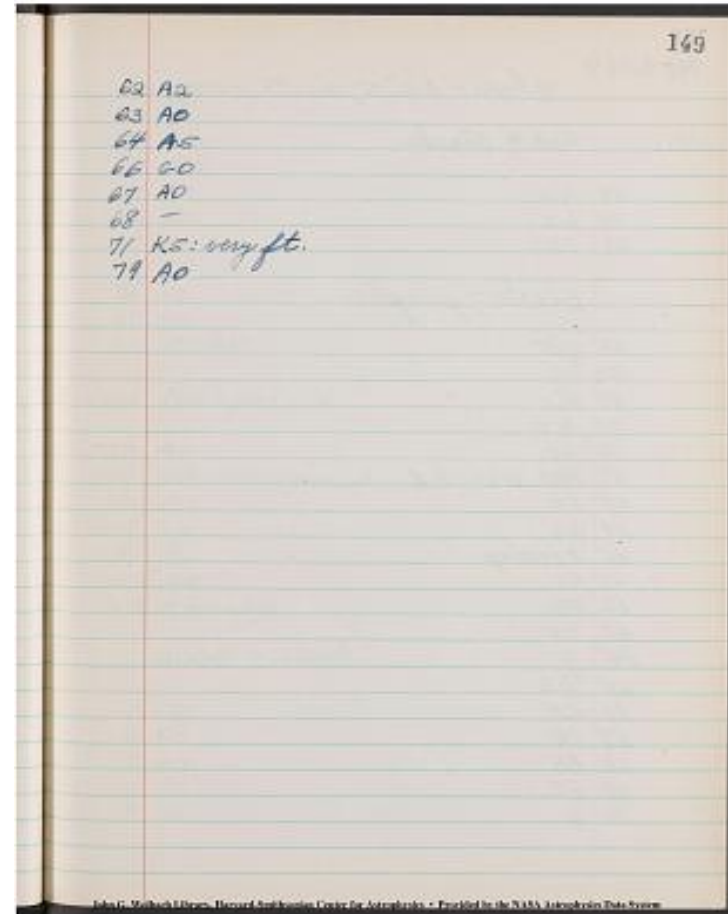
148	
MF36009	
9	-
10	-
11	E2
12	F8
13	A0
14	F8
16	A3
17	A2
26	A0
28	A0
30	G2:
31	G5
34	F5:
35	G5
36	F8
37	K0
38	B9
39	A0
40	G2
44	A0
46	A0: overlap
48	F0
49	A2
52	F5
56	A5
57	F8
59	A0

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[[2 Columned Table]]

---	---
62	A2
63	AO
64	A5
66	GO
67	AO
68	---
71	K5: very ft.
79	AO

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150
MF36007
8^h00 - 62°S, charts 15417D,E

[[2 column table]]
15417D	Red = black
54 | A5 |
74 | G5: |
81 | F0: |

[[2 column table]]
Black = purple |
--- | --- |
51 | g5 |
53 | ny |
54 | k0 |
55 | k0 |
56 | g0 |
57 | AOP 4077i = H6 |
58 | F5 |
59 | G3 |
60 | A overlap |
61 | A0 |
62 | F8 |
63 | A5 |
64 | g |
65 | f5 |
66 | K5 |
67 | F0 |
68 | A3 |
69 | F8 |
70 | f |

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150
MF36007 8^h00 - 62°S, charts 15417D,E.
15417D Red = black
54 A5
74 G5:
81 F0:
Black = purple
51 g5
53 ny
54 k0
55 k0
56 g0
57 AOP 4077i = H6
58 F5
59 G3
60 A overlap
61 A0
62 F8
63 A5
64 g
65 g5
66 K5
67 F0
68 A3
69 F8
70 f

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151

[[2 column table]]

---	---
71	ny
72	g
73	G0:
74	A2
75	A2
76	K0
77	G5:
78	F0
79	A0
80	F8
81	overlap

[[2 column table]]

15417E | Red = purple |

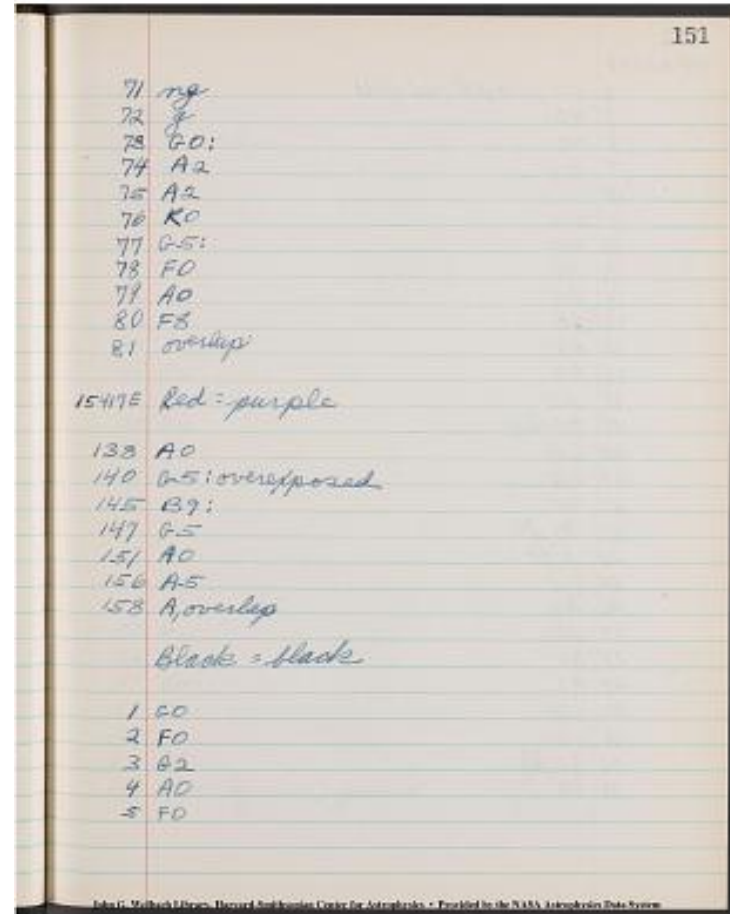
---	---
138	A0
140	G5: overexposed
145	B9:
147	G5
151	A0
156	A5
158	A, overlap

[[2 column table]]

Black = black |

---	---
1	G0
2	F0
3	G2
4	A0
5	F0

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152
MF 36007

[[2 column table]]

---	---
6	F0 wing to red of H
7	K0:
8	F0
9	G3
10	G3
11	G5
12	F8:
13	A0
14	F8
15	F8
16	A3
17	A3
18	f5
19	overlap
20	G0
21	G5
22	G0:
23	k ft.
24	f, ft.
25	G0
26	A2
27	G0
28	A0
29	A2
30	G0:
31	G5
32	g0, def.
33	F8

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152
MF 36007

6	F0 wing to red of H
7	K0:
8	F0
9	G3
10	G3
11	G5
12	F8:
13	A0
14	F8
15	F8
16	A3
17	A3
18	f5
19	overlap
20	G0
21	G5
22	G0:
23	k ft.
24	f, ft.
25	G0
26	A2
27	G0
28	A0
29	A2
30	G0:
31	G5
32	g0, def.
33	F8

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[[2 Columned Table]]

34	F5
35	G5
36	F:overlap
37	K0
38	B9
39	A0
40	G5
41	-
42	-
43	-
44	B9:
45	F5:
46	A overlap
47	A2
48	F5:
49	A0
50	A0
51	F5:
52	F5
53	F0
54	G0
55	F2:
56	F0
57	F5:
58	A0
59	A0
60	A5
61	A, overlap, overexposed

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34	F5
35	G5
36	F:overlap
37	K0
38	B9
39	A0
40	G5
41	-
42	-
43	-
44	B9:
45	F5
46	A overlap
47	A2
48	F5:
49	A0
50	A0
51	F5:
52	F5
53	F0
54	G0
55	F2:
56	F0
57	F5:
58	A0
59	A0
60	A5
61	A, overlap, overexposed

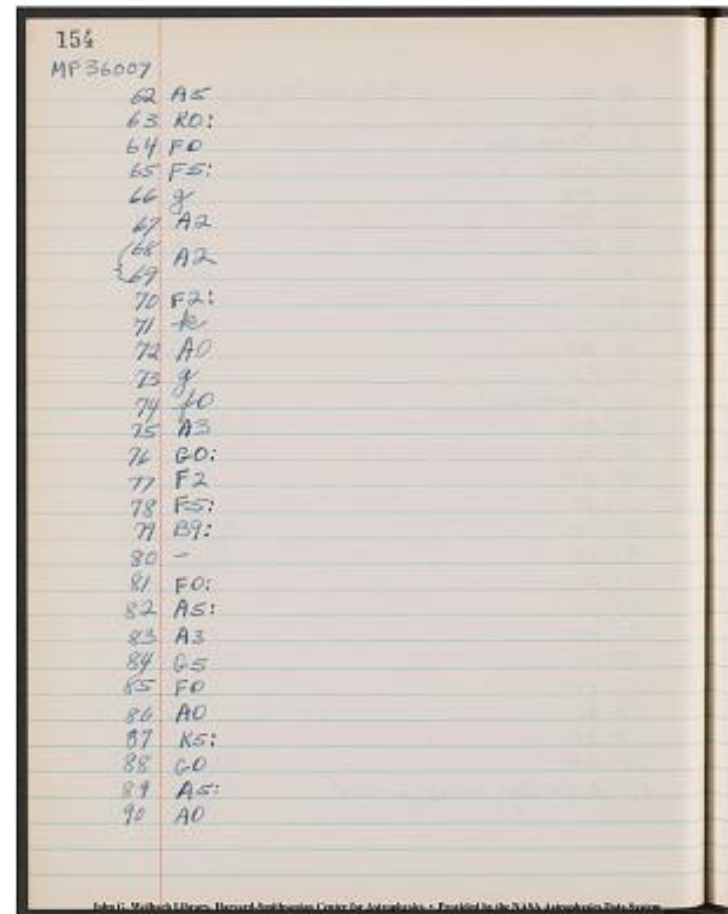
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154
MF36007

[[2 column table]]

62	A5
63	K0:
64	F0
65	F5:
66	g
67	A2
68	A2
69	A2
70	F2:
71	k
72	A0
73	g
74	f0
75	A3
76	G0:
77	F2
78	F5:
79	B9:
80	-
81	F0:
82	A5:
83	A3
84	G5
85	F0
86	A0
87	K5:
88	G0
89	A5:
90	A0

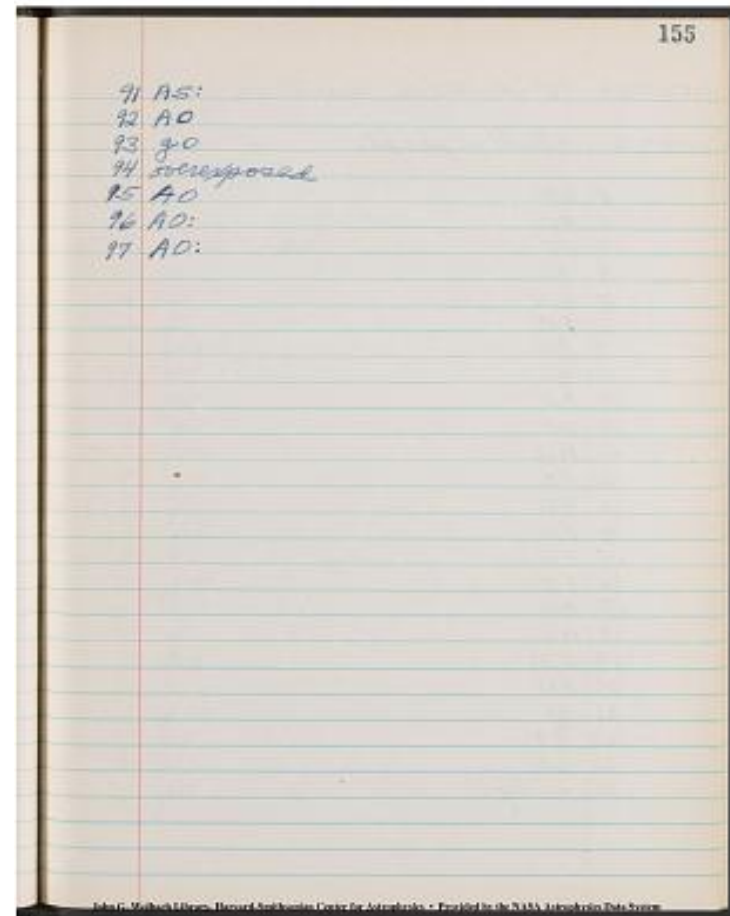
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155
 [[2 columned table]]
 --- | ---
 91 | A5:
 92 | A0
 93 | g0
 94 | overexposed
 95 | A0
 96 | A0:
 97 | A0:

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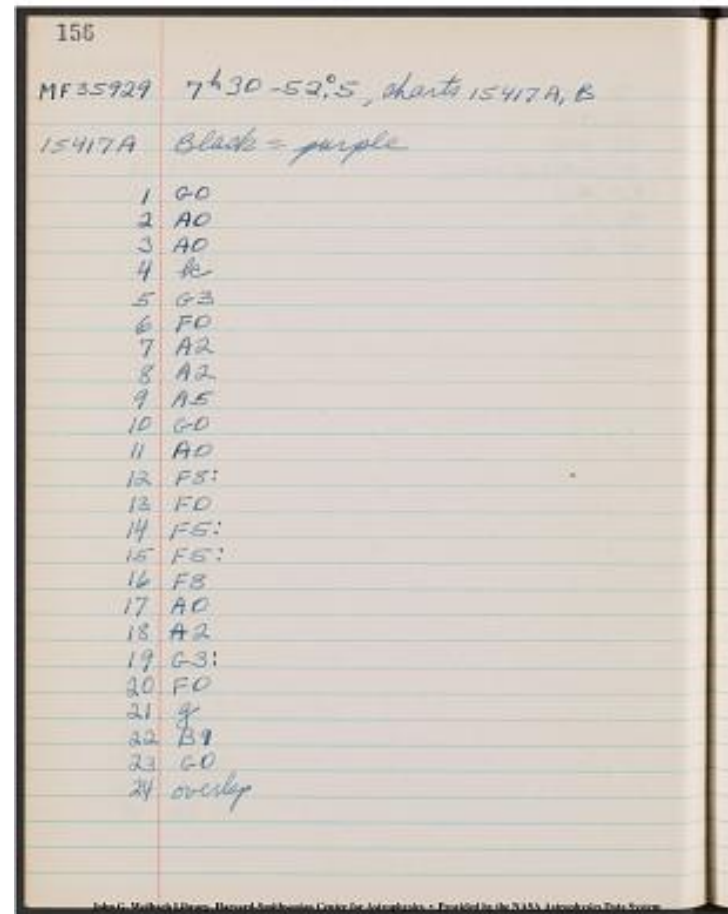
156

MF35929 7^h30 -52.5[°][[[°]]], charts 15417A, B

[[2 columned table]]
15417A | Black = purple

1	G0
2	A0
3	A0
4	k
5	G3
6	F0
7	A2
8	A2
9	A5
10	G0
11	A0
12	F8:
13	F0
14	F5:
15	F5:
16	F8
17	A0
18	A2
19	G3:
20	F0
21	g
22	B9
23	G0
24	overlap

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157

[[2 columned table]]

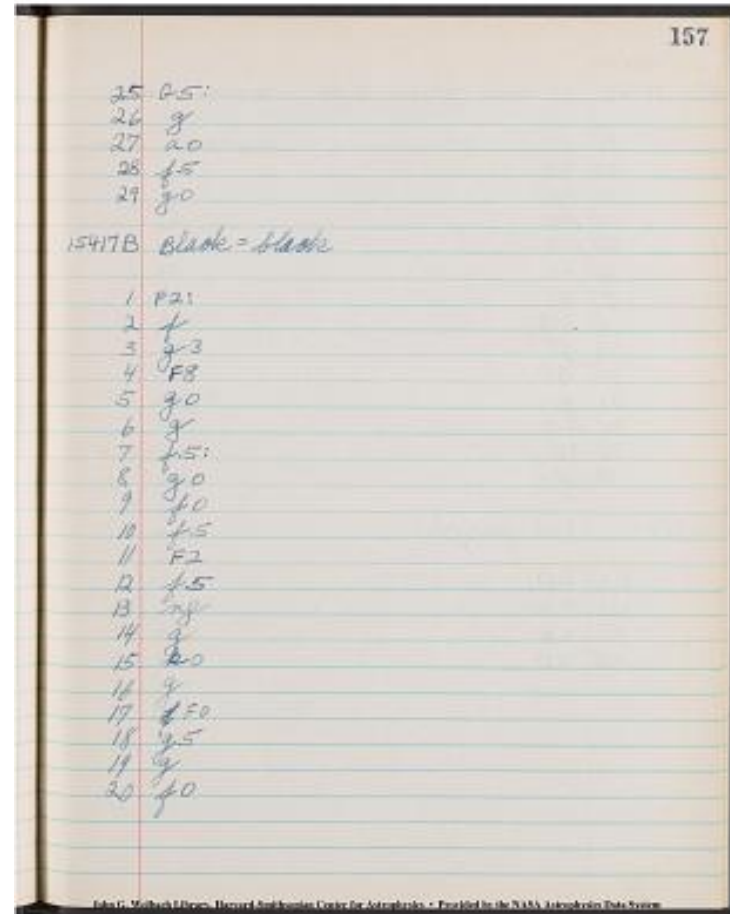
25	G5:
26	g
27	a0
28	f5
29	g0

[[2 columned table]]

15417B | Black = black

1	F2:
2	f
3	g3
4	F8
5	g0
6	g
7	f5:
8	g0
9	f0
10	f5
11	F2
12	f5
13	ng
14	g
15	k0
16	g
17	f F0
18	g5
19	g
20	f0

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158

MF 35929

[[2 columned table]]

21	g
22	g0
23	g
24	F2
25	G3
26	A0
27	g
28	ng
29	g
30	A0
31	g
35	A0
36	A0
38	f8

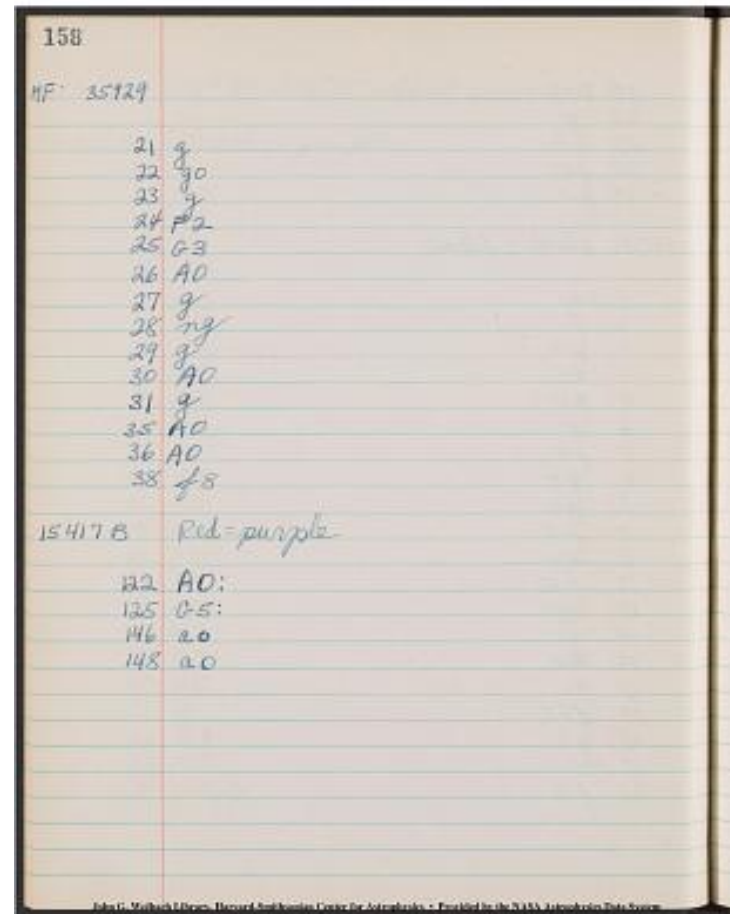
[[2 columned table]]

15417 B | Red = purple

--- | ---

122	A0:
125	G5:
146	a0
148	a0

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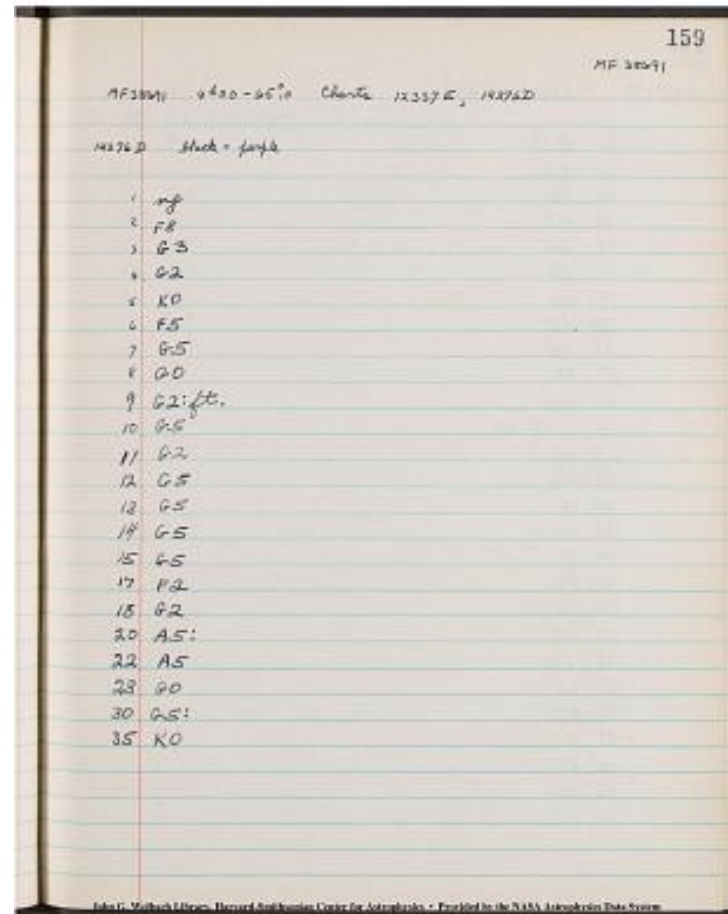
159
MF 38691

MF 38691 4^h 00 -65.0^m Charts 12337E, 14276D

[[2 Columned Table]]
14276D | black = purple

---	---
1	ng
2	F8
3	G3
4	G2
5	K0
6	F5
7	G5
8	G0
9	G2:ft.
10	G5
11	G2
12	G5
13	G5
14	G5
15	G5
17	F2
18	G2
20	A5:
22	A5
23	G0
30	G5:
35	K0

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160
MF38691

[[2 column table]]
12337E	Black = black
10 | K0 |
12 | G5 |
13 | F5 |
14 | G2 |
17 | G0 |
18 | A0 |
19 | G2 |
20 | F2 |
22 | G5 |
23 | F0 |
24 | G5 |
25 | G, overlap |
28 | G2 |
29 | F2 |
30 | G0 |
32 | G5 |
33 | G |
35 | F8 |
36 | G5 |
37 | K0 |
39 | F2 |
40 | K0 |
41 | K0 |
42 | F8: |
46 | G0 |
47 | G2 |

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160	
MF 38691	
H. 12337E	black = black
10	K0
12	G5
13	F5
14	G2
17	G0
18	A0
19	G2
20	F2
22	G5
23	F0
24	G5
25	G, overlap
28	G2
29	F2
30	G0
32	G5
33	G
35	F8
36	G5
37	K0
39	F2
40	K0
41	K0
42	F8:
45	K0:
46	G0
47	G2

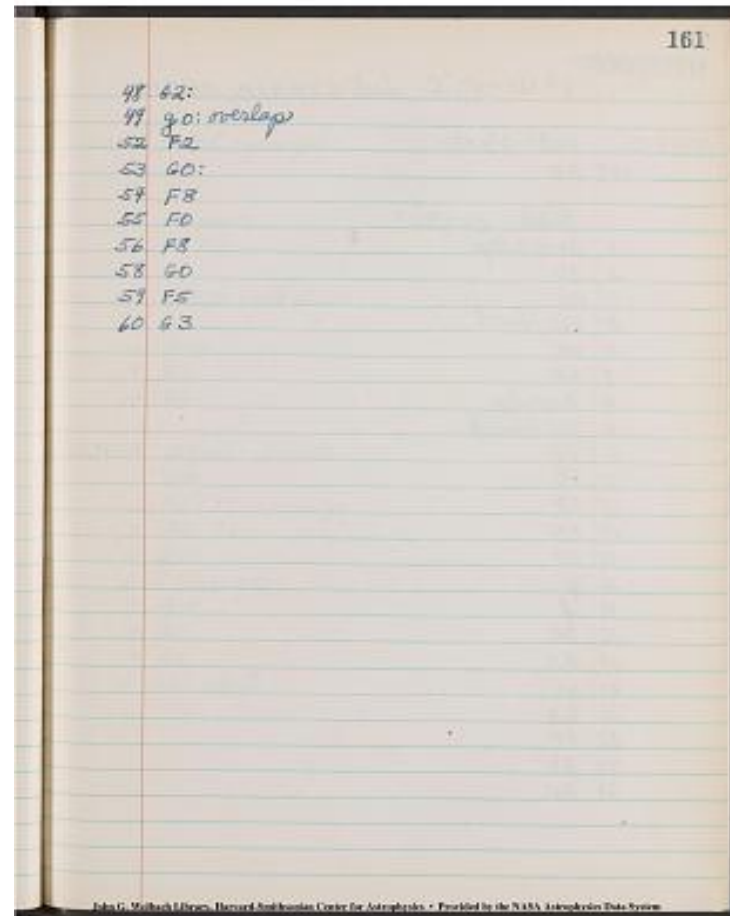
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161

[[2 Columned Table]]

---	---
48	G2:
49	g0:overlap
52	F2
53	G0:
54	F8
55	F0
56	F8
58	G0
59	F5
60	G3

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162
MF36080
8^h30 -52.5^m, charts 16240A + B, 15417B

[[2 column table]]
15417C	Red = black
159 | A0 |

[[2 column table]]
| Black = purple |
--- | --- |
1 | A0: overlap |
2 | A0 |
3 | A2 |
5 | F2: blurred |
6 | F8 |
7 | F8: |
9 | A overlap |
10 | G0: blurred |
11 | F0 |
12 | F0 |
13 | F0 |
14 | F5: |
15 | F0 |
16 | g |
17 | f |
18 | A0 |
19 | A5 |
20 | G0: |
21 | G3 |
22 | F0 |
23 | B9 |
24 | A0 |

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162
MF36080
8^h30 -52.5^m, charts 16240A + B, 15417B
15417C Red = black
159 A0
Black = purple
1 A0: overlap
2 A0
3 A2
5 F2: blurred
6 F8
7 F8:
9 A overlap
10 G0: blurred
11 F0
12 F0
13 F0
14 F5:
15 F0
16 g
17 f
18 A0
19 A5
20 G0:
21 G3
22 F0
23 B9
24 A0

Project PHaEDRA - Dorrit Hoffleit - Spectral Classification - Bright Stars. #1
Transcribed and Reviewed by Digital Volunteers
Extracted Dec-02-2022 08:22:23

163
MF 36080

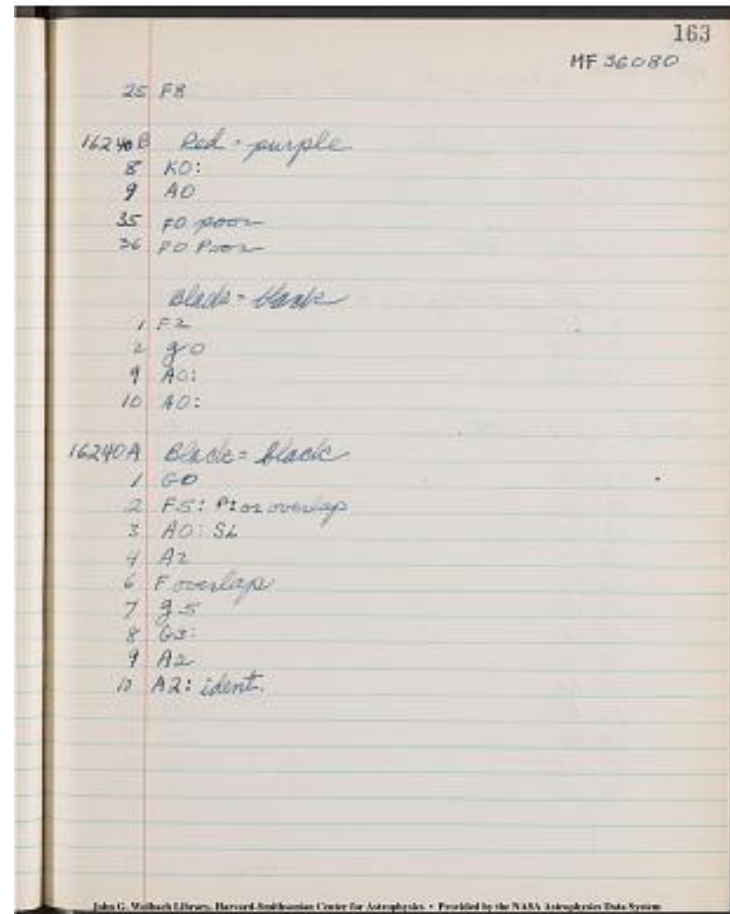
[[2 column table]]
--- | --- |
25 | F8 |

[[2 column table]]
16240B	Red = purple
8 | K0: |
9 | A0 |
35 | F0 poor |
36 | F0 poor |

[[2 column table]]
| Black = black |
--- | --- |
1 | F2 |
2 | g0 |
9 | A0: |
10 | A0: |

[[2 column table]]
16240A	Black = black
1 | G0 |
2 | F5: P: or overlap |
3 | A0: Si |
4 | A2 |
6 | F overlap |
7 | g5 |
8 | G3: |
9 | A2 |
10 | A2: ident. |

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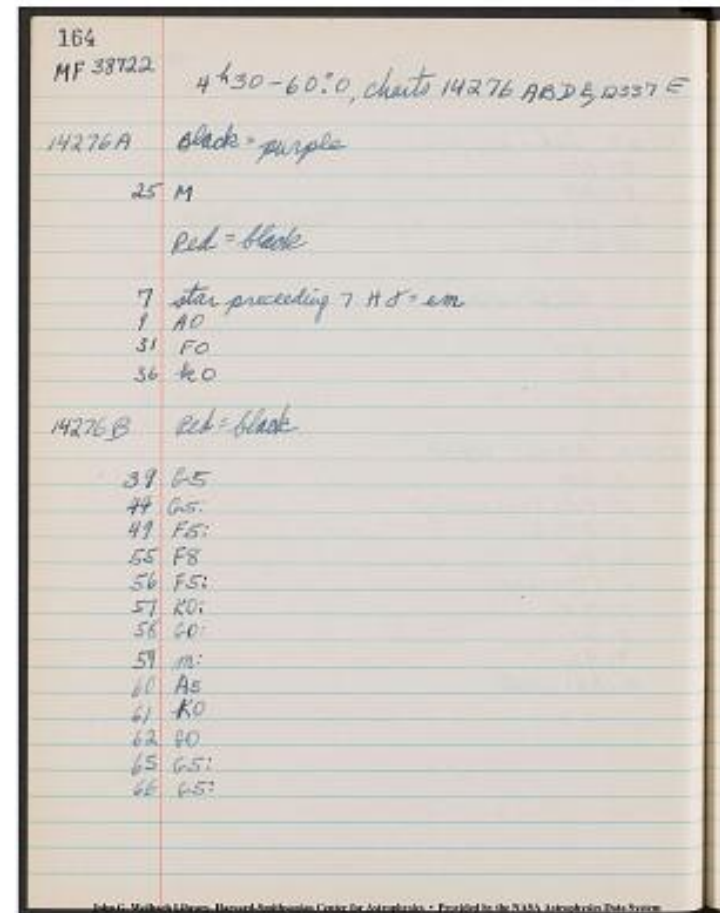
164
MF38722
4^h 30^m -60.0^s, charts 14276A B D E, 12337E

[[2 column table]]
14276A	Black = purple
25 | M |

[[2 column table]]
| Red = black |
--- | --- |
7 | star preceding 7 H gamma = em |
9 | A0 |
31 | F0 |
36 | K0 |

[[2 column table]]
14276B	Red = black
39 | G5 |
44 | G5: |
49 | F5: |
55 | F8 |
56 | F5: |
57 | K0: |
58 | G0: |
59 | m: |
60 | A5 |
61 | K0 |
62 | G0 |
65 | G5: |
66 | G5: |

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165
MF 38722

[[2 column table]]

---	---
72	K0:
73	G0:
86	K2:
89	F5::

[[2 column table]]

14276E | Red = purple |

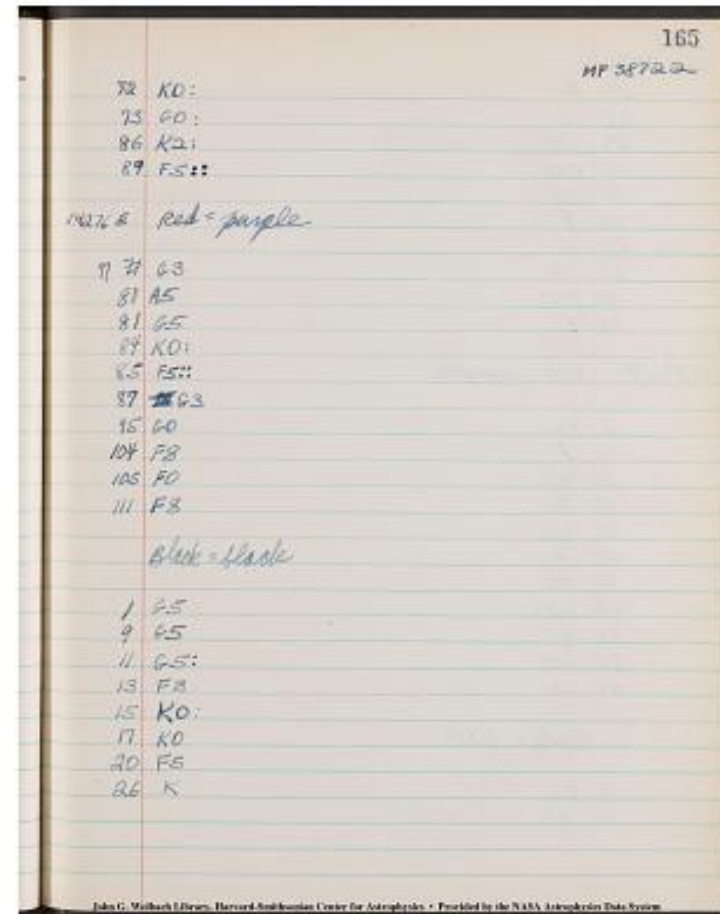
---	---
77	71 G3
80	A5
81	G5
84	K0:
85	F5::
87	g5 G3
95	G0
104	F8
105	F0
111	F8

[[2 column table]]

Black = black |

---	---
1	G5
9	G5
11	G5:
13	F8
15	K0:
17	K0
20	F5
26	K

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166
MF38722

[[2 column table]]

---	---
27	k
28	K
29	K0:
31	A0
36	G5
37	F5:
38	K
39	G5
40	F5:
41	K:

[[2 column table]]

14276D | Red = purple

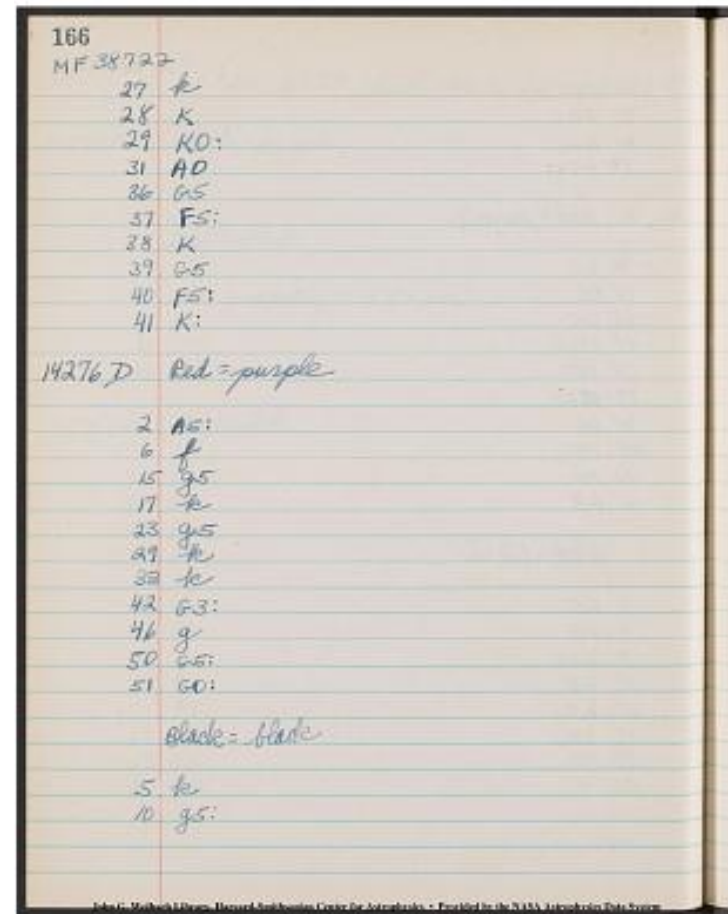
---	---
2	A5:
6	f
15	g5
17	k
23	g5
29	k
33	k
42	G3:
46	g
50	G5:
51	G0:

[[2 column table]]

| Black = black |

---	---
5	k
10	g5:

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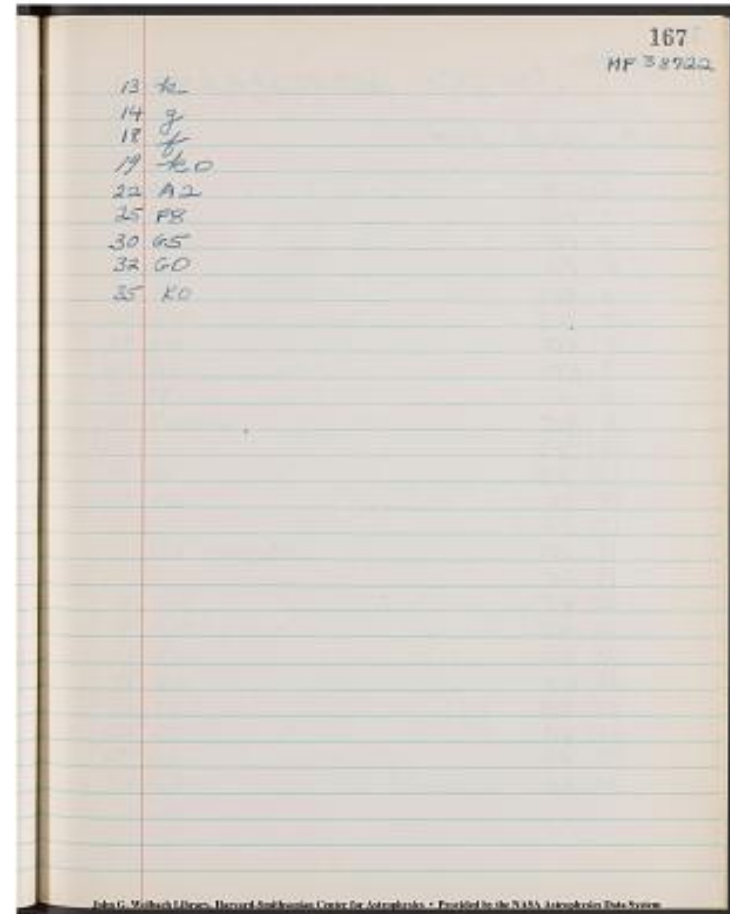
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167
MF 38722

[[2 column table]]

---	---
13	k
14	g
18	f
19	kO
22	A2
25	F8
30	G5
32	GO
35	KO

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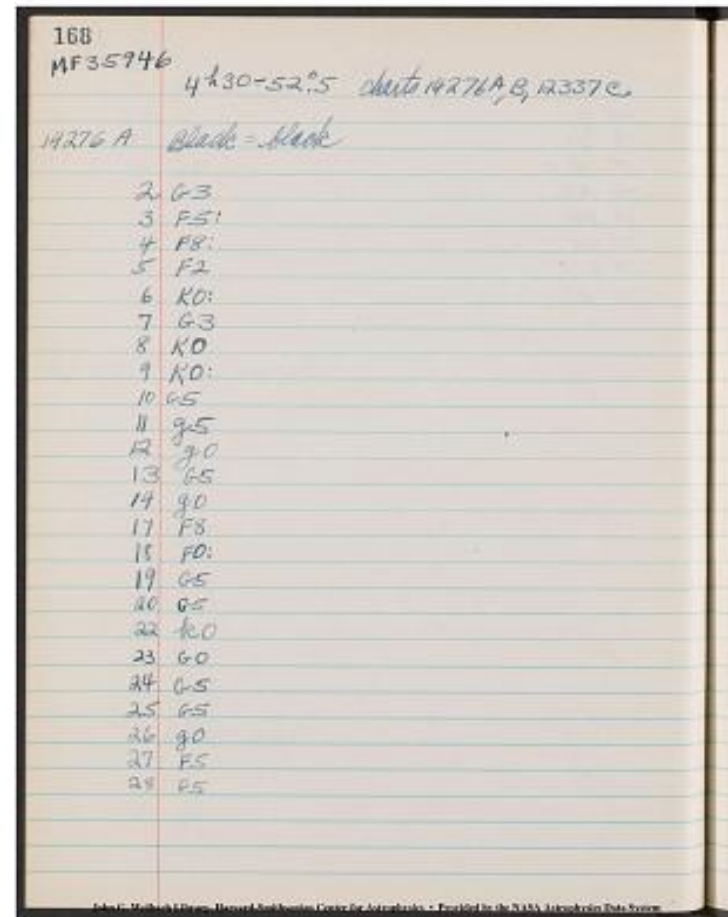
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168
MF35946
4^h[[h]] 30 -52[[°]].5 charts 14276A,B,12337C

[[2 Column Table]]
14276A | Black=black

2	G3
3	F5:
4	F8:
5	F2
6	K0:
7	G3
8	K0
9	K0:
10	G5
11	g5
12	g0
13	G5
14	g0
17	F8
18	F0:
19	G5
20	G5
22	k0
23	G0
24	G5
25	G5
26	g0
27	F5
28	G5

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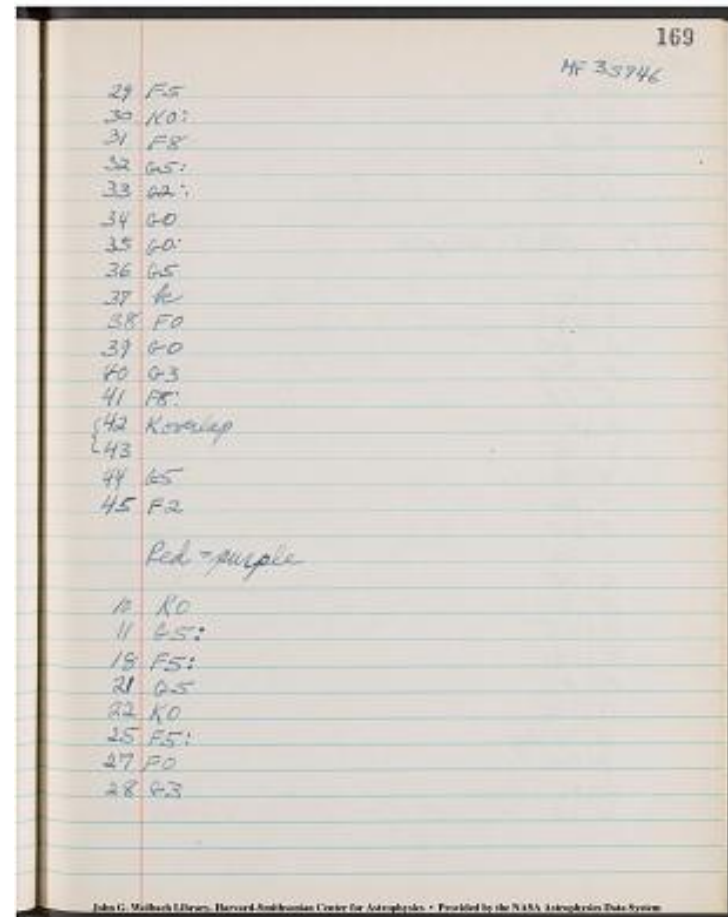
169
MF35946

[[2 Columned Table]]

29	F5
30	K0:
31	F8
32	G5:
33	G2:
34	G0
35	G0:
36	G5
37	k
38	F0
39	G0
40	G3
41	F8:
42	K overlap
43	
44	G5
45	F2

	Red=purple
10	K0
11	G5:
18	F5:
21	G5
22	K0
25	F5:
27	F0
28	G3

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170
MF35946

[[2 column table]]

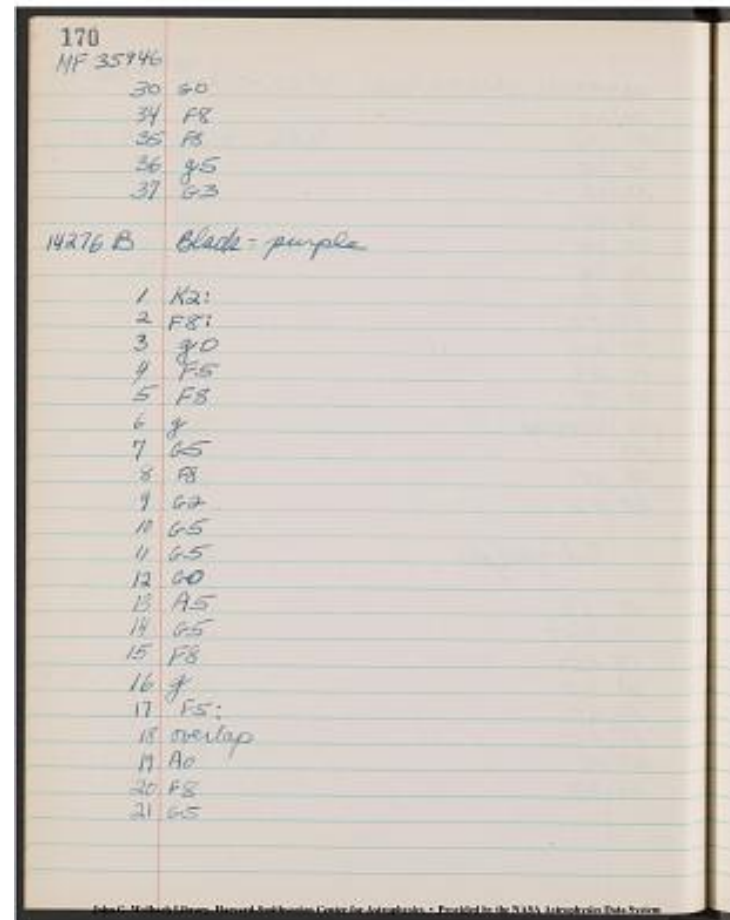
---	---
30	G0
34	F8
35	F8
36	G5
37	G3

[[2 column table]]

14276B | Black = purple |

---	---
1	K2:
2	F8:
3	G0
4	F5
5	F8
6	g
7	G5
8	F8
9	G2
10	G5
11	G5
12	G0
13	A5
14	G5
15	F8
16	g
17	F5:
18	overlap
19	A0
20	F8
21	G5

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171
MF35946

[[2 column table]]

---	---
22	g
23	G0
24	K0
25	Pec
26	G5
27	G5
28	g
29	F0
30	K0
32	G5
33	g
34	G5
35	A5
36	G5
37	g:
38	F8
39	G2
40	G5
41	G0
42	G5
43	g
44	G5:
45	G5
46	K0
47	f
48	F5
49	g
50	K0
51	G5

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171
MF35946
22 g
23 G0
24 K0
25 Pec
26 G5
27 G5
28 g
29 F0
30 K0
32 G5
33 g
34 G5
35 A5
36 G5
37 g:
38 F8
39 G2
40 G5
41 G0
42 G5
43 g
44 G5:
45 G5
46 K0
47 f
48 F5
49 g
50 K0
51 G5

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172
MF35946

[[2 column table]]

52	F8:
53	F5:
54	F8:
55	A0: overlap
56	G5
57	G0
58	G5:
59	F8
60	G0:
61	F0
62	g
63	K0
64	A2
65	overlap
66	F5
67	G5:
68	F5:
69	G0:
70	G0:
71	K0
72	G5
73	F0
74	F0
75	F8:
76	F5
77	overlap
78	A2
80	F2:

172
MF 35946

52	F8:
53	F5:
54	F8:
55	A0: overlap
56	G5
57	G0
58	G5:
59	F8
60	G0:
61	F0
62	g
63	K0
64	A2
65	overlap
66	F5
67	G5:
68	F5:
69	G0:
70	G0:
71	K0
72	G5
73	F0
74	F0
75	F8:
76	F5
77	overlap
78	A2
80	F2:

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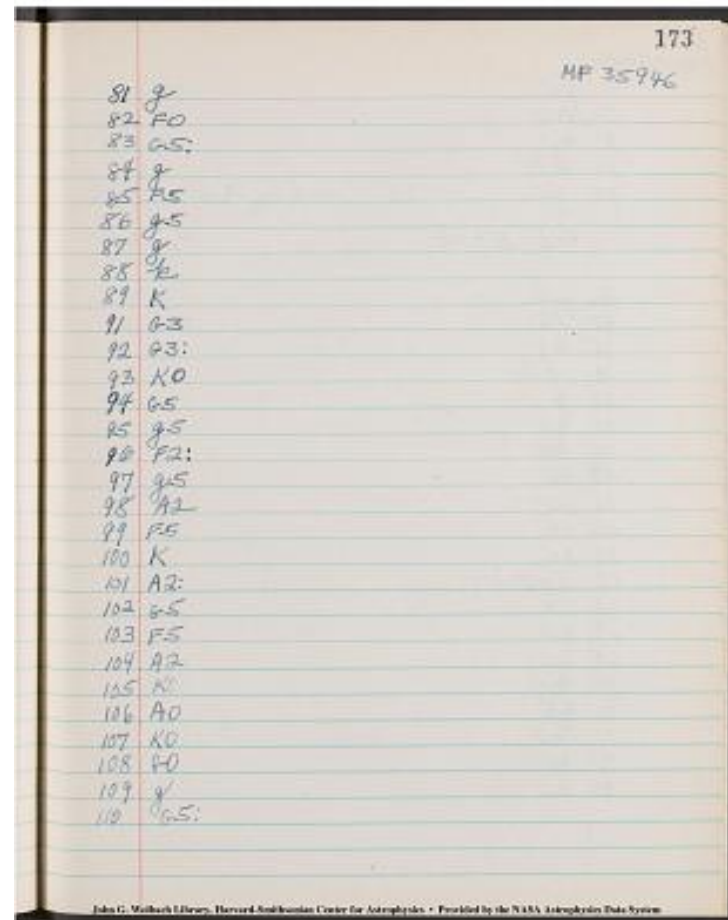
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Extracted Dec-02-2022 08:22:23

173
MF35946

[[2 column table]]

---	---
81	g
82	F0
83	G5:
84	g
85	F5
86	g5
87	g
88	k
89	K
91	G3
92	G3:
93	K0
94	G5
95	g5
96	F2:
97	g5
98	A2
99	F5
100	K
101	A2:
102	G5
103	F5
104	A2
105	K0
106	A0
107	K0
108	G0
109	g
110	G5:

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174
MF35946

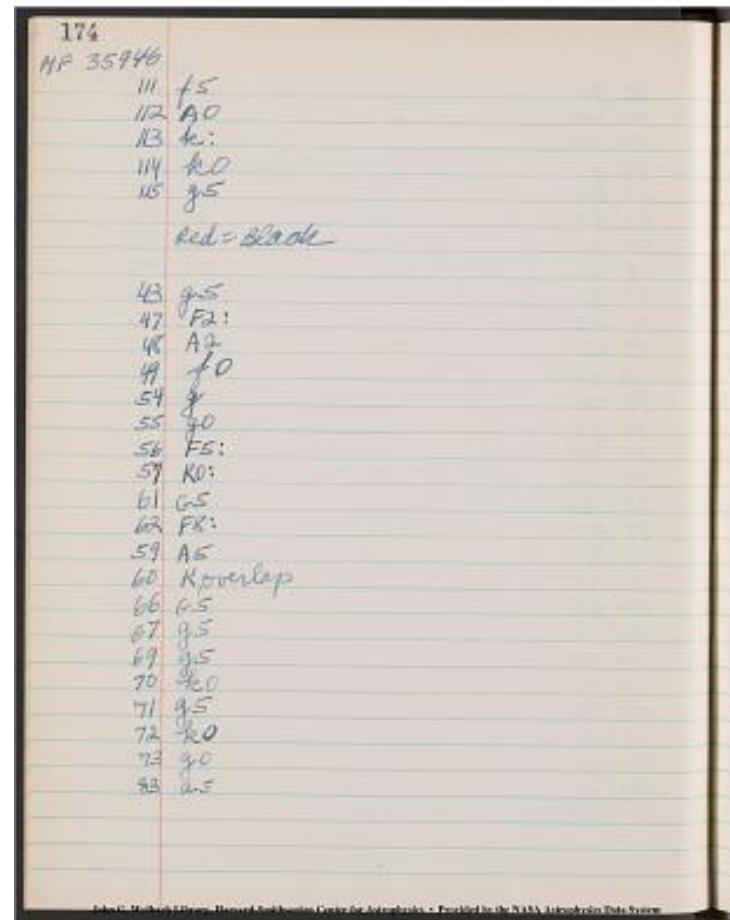
[[2 column table]]

---	---
111	f5
112	A0
113	k:
114	k0
115	g5

[[2 column table]]

---	---
Red = Black	
43	g5
47	F2:
48	A2
49	f0
54	g
55	g0
56	F5:
57	K0:
61	G5
62	F8:
59	A5
60	K, overlap
66	G5
67	g5
69	g5
70	k0
71	g5
72	k0
73	g0
83	a5

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175
MF35946

[[2 column table]]

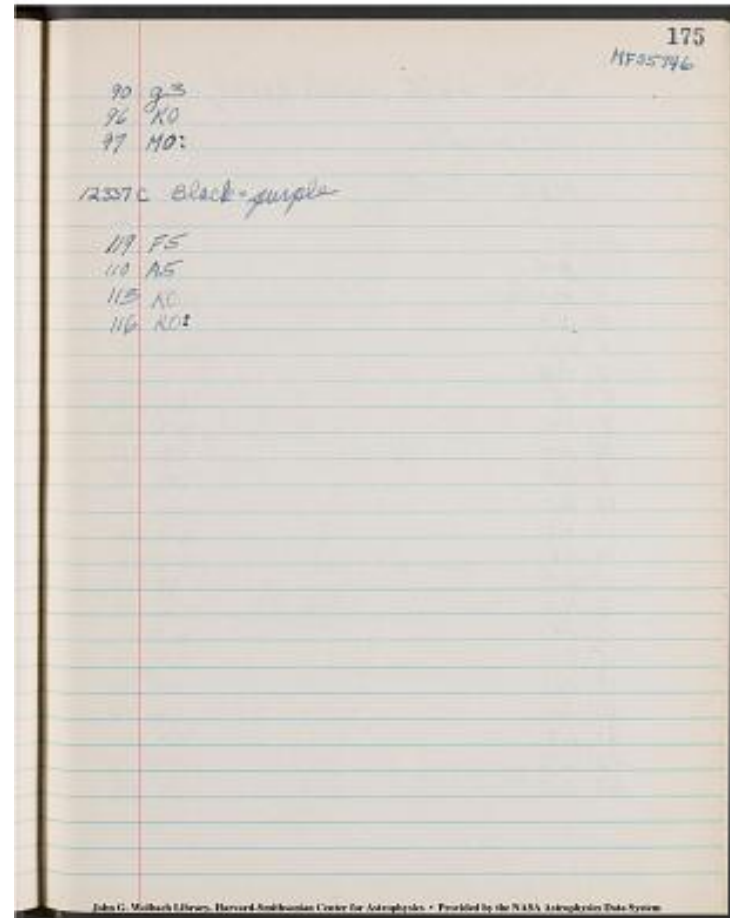
---	---
90	g3
96	K0
97	M0:

[[2 column table]]

12337C	Black = purple
--------	----------------

---	---
119	F5
110	A5
113	K0
116	K0:

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176
MF36006
6h40 -62.5°, charts 16069E, 15417D

[[2 column table]]
16069E	Red = purple
Black = black	
23 | G5 |
1 | g5 |
2 | overlap |
4 | G0: |
6 | G0: |
7 | A5 |
8 | f |
9 | F5 |
10 | F0 |
11 | A0 |
12 | A5 |
13 | F8: |
14 | A5 |
15 | G0 |
16 | K5 |
17 | G0 |
18 | G0 |
19 | A0 |
20 | A5 |
21 | G3 |
22 | G3: |
23 | G5:

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176
MF36006
6h40 -62.5°, charts 16069E, 15417D
16069E Red = purple
Black = black
23 G5
1 g5
2 overlap
4 G0:
6 G0:
7 A5
8 f
9 F5
10 F0
11 A0
12 A5
13 F8:
14 A5
15 G0
16 K5
17 G0
18 G0
19 A0
20 A5
21 G3
22 G3:
23 G5:

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[[2 column table]]

---	---
24	A0
25	G0
26	F8
27	F5:
28	A0
29	G3
30	K0
31	G0
32	F8:
34	g3
35	g5
36	g
37	G0:
38	F5
39	A3
40	K0:
41	K0:
42	A0
43	G5
44	B9
45	f5:
46	G5
47	F8:
48	A3
49	A2
50	F5:
51	G0
52	F0:

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24	A0
25	G0
26	F8
27	F5:
28	A0
29	G3
30	K0
31	G0
32	F8:
34	g3
35	g5
36	g
37	G0:
38	F5
39	A3
40	K0:
41	K0:
42	A0
43	G5
44	B9
45	f5:
46	G5
47	F8:
48	A3
49	A2
50	F5:
51	G0
52	F0:

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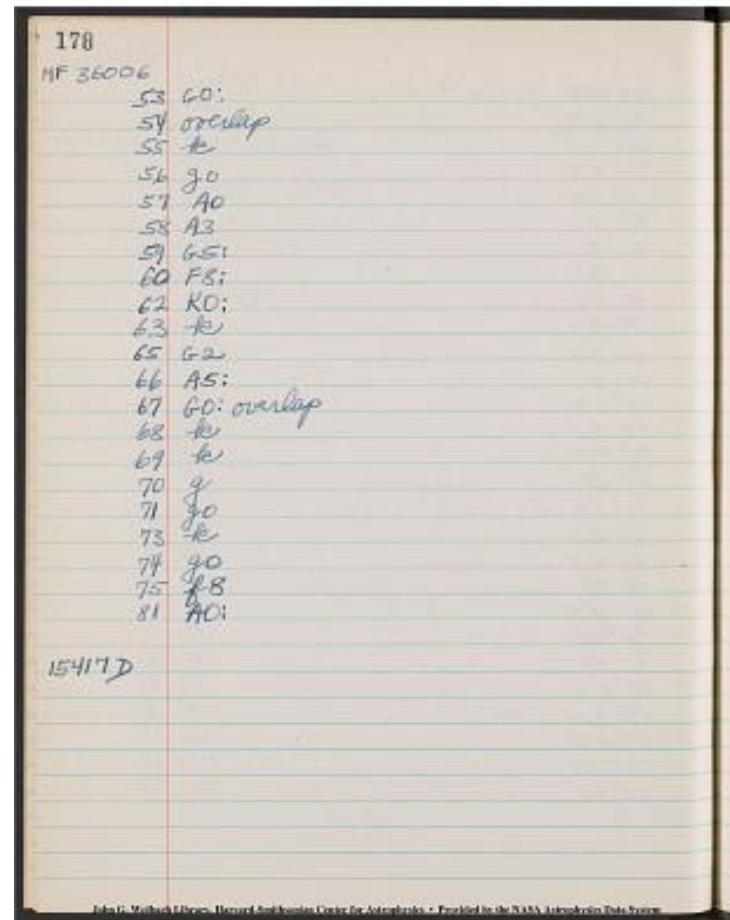
178
MF36006

[[2 column table]]

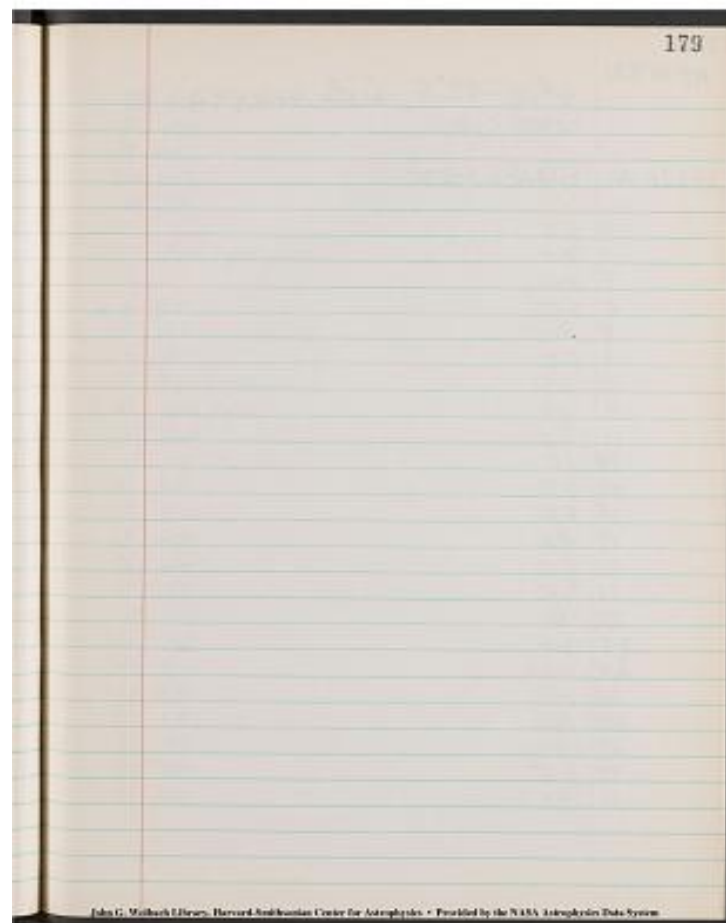
53	G0:
54	overlap
55	k
56	g0
57	A0
58	A3
59	G5:
60	F8:
62	K0:
63	k
65	G2
66	A5:
67	G0: overlap
68	k
69	k
70	g
71	g0
73	k
74	g0
75	f8
81	A0:

15417D

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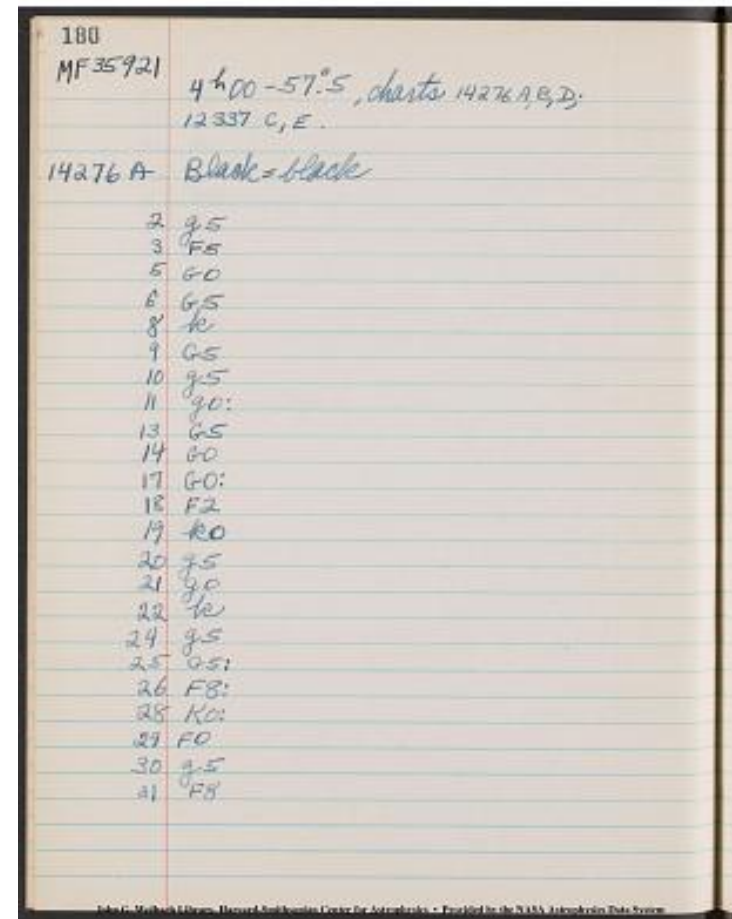
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180
 MF35921
 4^h[[h]] 00 -57.5[[°]], charts 1427 6A,B,D;
 12337 C,E.

[[2 column table]]
 14276A | Black = black |

---	---
2	g5
3	F5
5	G0
6	G5
8	k
9	G5
10	g5
11	g0:
13	G5
14	G0
17	G0:
18	F2
19	k0
20	g5
21	g0
22	k
24	g5
25	G5:
26	F8:
28	K0:
29	F0
30	g5
31	F8

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181

[[2 column table]]

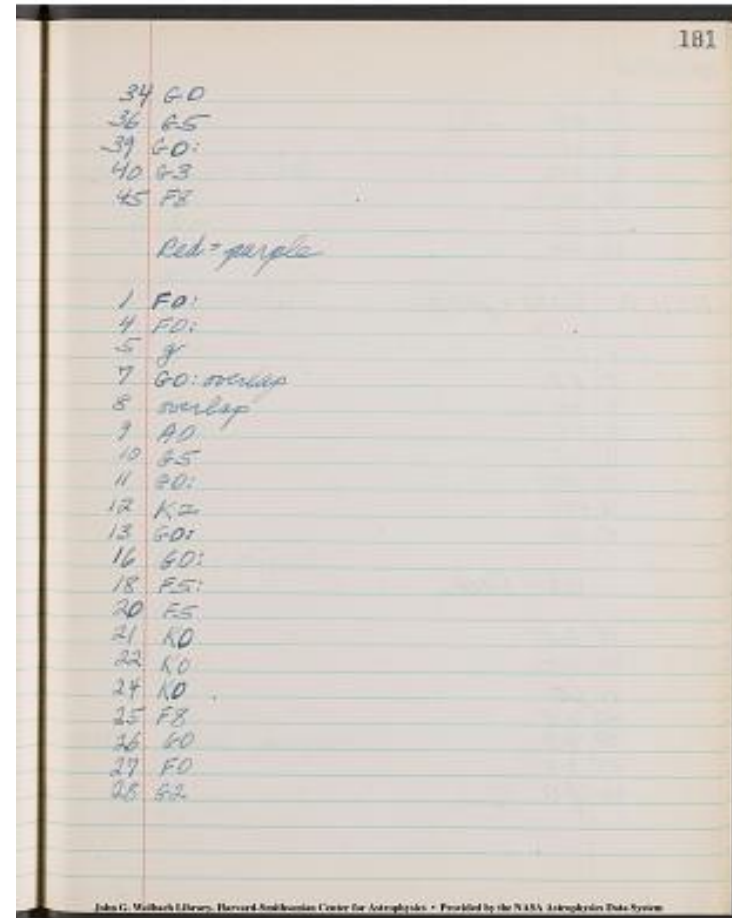
---	---
34	G0
36	G5
39	G0:
40	G3
45	F8

[[2 column table]]

	Red = purple
--	--------------

---	---
1	F0:
4	F0:
5	g
7	G0: overlap
8	overlap
9	A0
10	G5
11	G0:
12	K2
13	G0:
16	G0:
18	F5:
20	F5
21	K0
22	K0
24	K0
25	F8
26	G0
27	F0
28	G2

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182
MF35921

[[2 column table]]

---	---
30	G0:
31	F5
34	G0
35	G0:
36	G5
37	G0:
38	F5

[[2 column table]]

14276B | Black = purple |

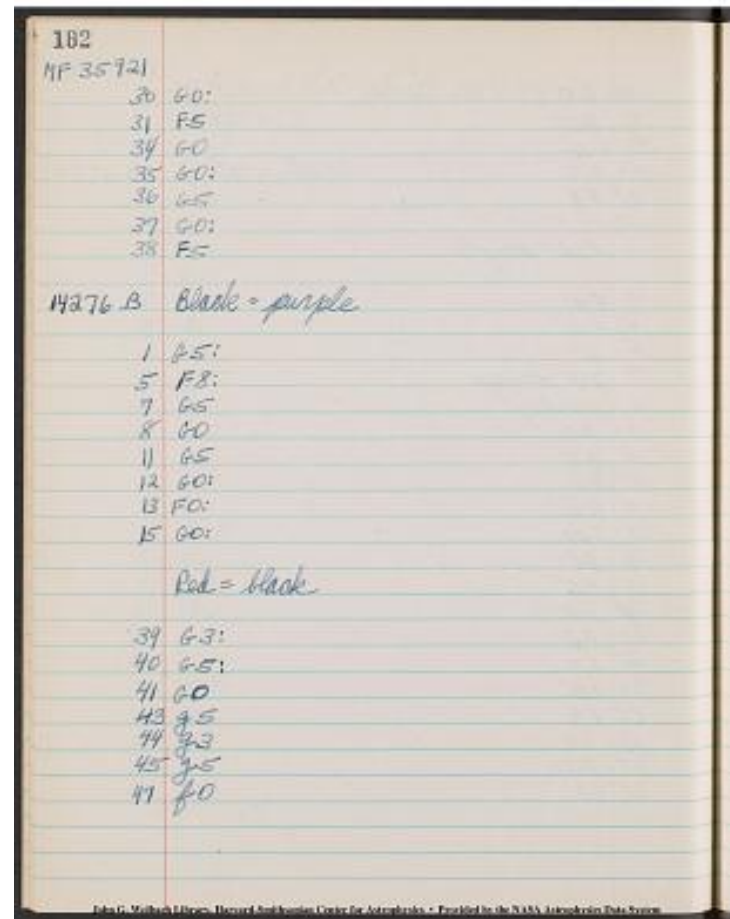
---	---
1	G5:
5	F8:
7	G5
8	G0
11	G5
12	G0:
13	F0:
15	G0:

[[2 column table]]

| Red = black |

---	---
39	G3:
40	G5:
41	G0
43	g5
44	g3
45	g5
47	f0

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[[2 column table]]

---	---
48	A5
49	F8:

[[2 column table]]

14276D | Red = black |

---	---
2	A5
3	F8
6	G0:
15	G5: overlap
17	Red
19	g5
23	G5
29	k
33	k0
42	G5
46	G0:
50	g5

[[2 column table]]

| Black = purple |

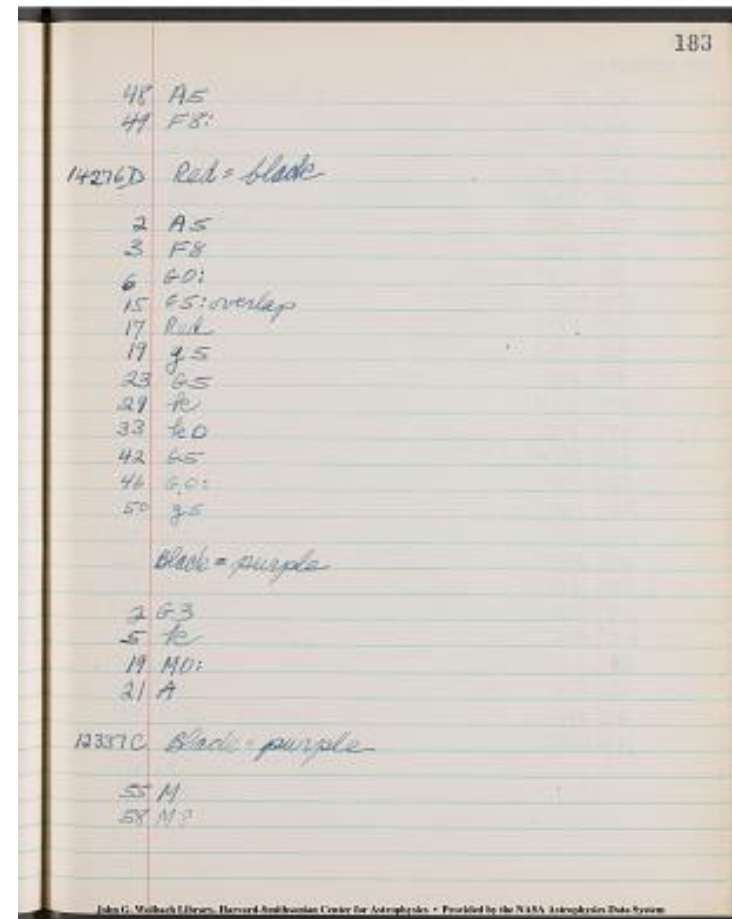
---	---
2	G3
5	k
19	M0:
21	A

[[2 column table]]

12337C | Black = purple |

---	---
55	M
58	M?

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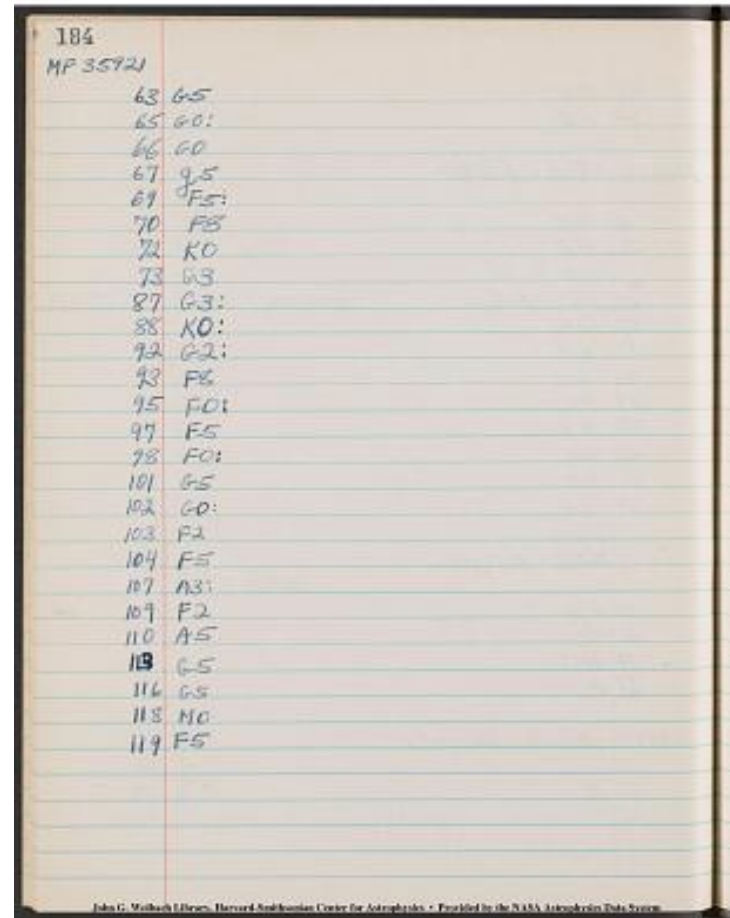
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 Extracted Dec-02-2022 08:22:23

184
MF3592

[[2 column table]]

---	---
63	G5
65	G0:
66	G0
67	g5
69	F5:
70	F8
72	K0
73	G3
87	G3:
88	K0:
92	G2:
93	F8
95	F0:
97	F5
98	F0:
101	G5
102	G0
103	F2
104	F5
107	A3:
109	F2
110	A5
113	G5
116	G5
118	M0
119	F5

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184
MF 3592

63	G5
65	G0:
66	G0
67	g5
69	F5:
70	F8
72	K0
73	G3
87	G3:
88	K0:
92	G2:
93	F8
95	F0:
97	F5
98	F0:
101	G5
102	G0:
103	F2
104	F5
107	A3:
109	F2
110	A5
113	G5
116	G5
118	M0
119	F5

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185
MF35921
Red = black

[[2 Columned Table]]

---	---
92	G2
93	F5:
94	F5
95	F8: def.
96	G2
97	K0
98	G0:
99	F2
100	G0
101	G5
102	F5
103	F2:
104	G2
105	k
106	g0
107	K0
108	G0
109	G3
110	K0
111	A5
113	g0:
114	g5
117	K2
118	G0
120	k
121	F8

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185
MF35921

Red = black

92	G2
93	F5:
94	F5
95	F8: def.
96	G2
97	K0
98	G0:
99	F2
100	G0
101	G5
102	F5
103	F2:
104	G2
105	k
106	g0
107	K0
108	G0
109	G3
110	K0
111	A5
113	g0:
114	g5
117	K2
118	G0
120	k
121	F8

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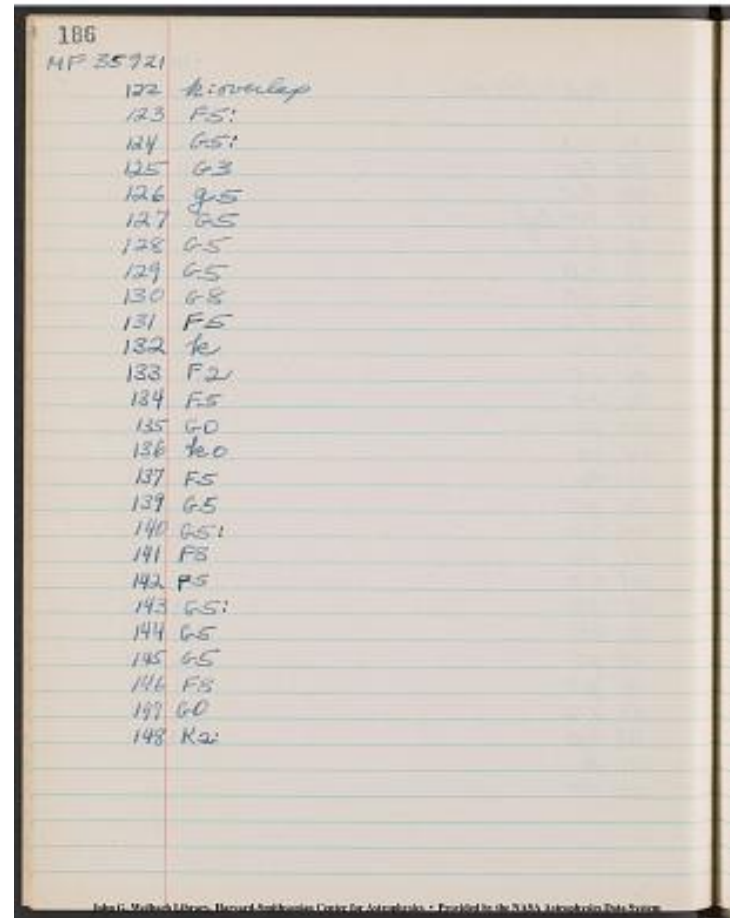
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Extracted Dec-02-2022 08:22:23

186
MF35921

[[2 Columned Table]]

---	---
122	k: overlap
123	F5:
124	G5:
125	G3
126	g5
127	G5
128	G5
129	G5
130	G8
131	F5
132	k
133	F2
134	F5
135	G0
136	k0
137	F5
139	G5
140	G5:
141	F8
142	F5
143	G5:
144	G5
145	G5
146	F8
147	G0
148	K2:

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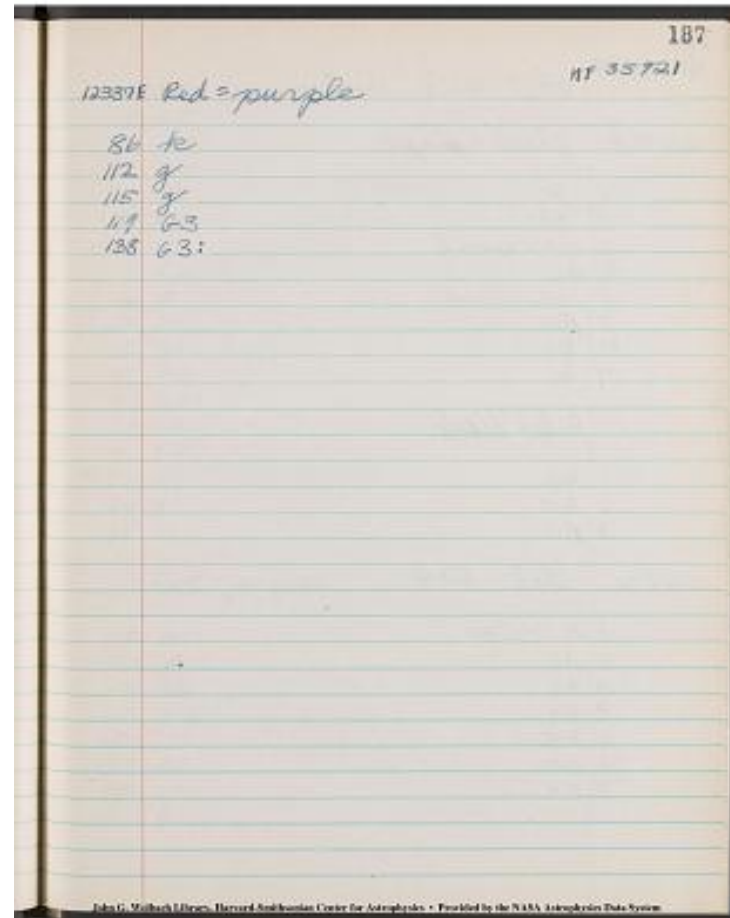


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187
MF35921

[[2 Columned Table]]
12337E	Red = purple
86	k
112	g
115	g
119	G3
138	G3:

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188
MF 38794
8^h20^m -55.0^s charts 15417C, 16240 A

[[2 column table]]
16240A	Black = purple
1 | g |
2 | F8: |
3 | overexposed |
4 | A2 |
6 | overexposed |
9 | A0 |
10 | B9 |
7 | k |

| | Red = black |
1 | A2 |
2 | A5 |
3 | A0 |

[[2 column table]]
15417C | Black = black |
1 | A, overlap |
2 | A0 |
3 | A3 |
4 | B9 |
5 | F2 |
6 | G0: |
7 | F5 |

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• Provided by the NASA Astrophysics Data System

188
MF 38794 8^h20^m -55.0^s charts 15417C, 16240 A
16240A Black = purple
1 g
2 F8:
3 overexposed
4 A2
6 overexposed
9 A0
10 B9
7 k
Red = black
1 A2
2 A5
3 A0
15417C Black = black
1 A, overlap
2 A0
3 A3
4 B9
5 F2
6 G0:
7 F5

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[[2 Columned Table]]

8	F5:
9	G5
10	F8
11	A5
12	F0
13	A5
14	F5
15	F2
16	F
17	G0:
18	A0
19	F0
20	G3:
21	G5
22	F0
23	B9
24	A0
25	F8

| Red = purple |

152	A0
153	f
154	A0
155	g5
157	A0
159	A0
160	K0:
161	A::

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8	F5:
9	G5
10	F8
11	A5
12	F0
13	A5
14	F5
15	F2
16	F
17	G0:
18	A0
19	F0
20	G3:
21	G5
22	F0
23	B9
24	A0
25	F8
Red = purple	
152	A0
153	f
154	A0
155	g5
157	A0
159	A0
160	K0:
161	A::

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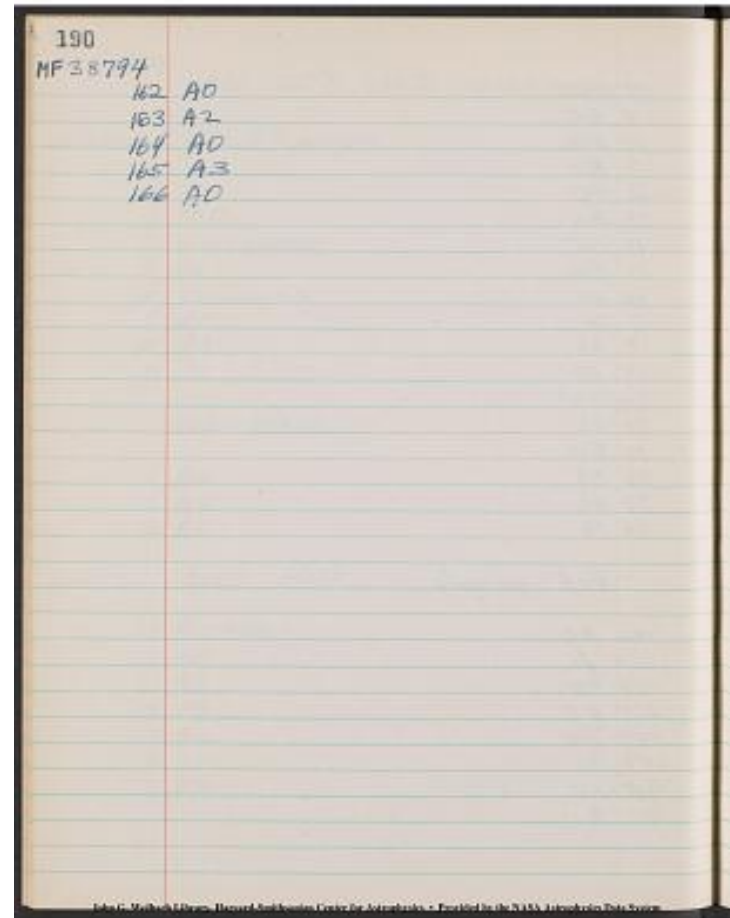
190

MF38784

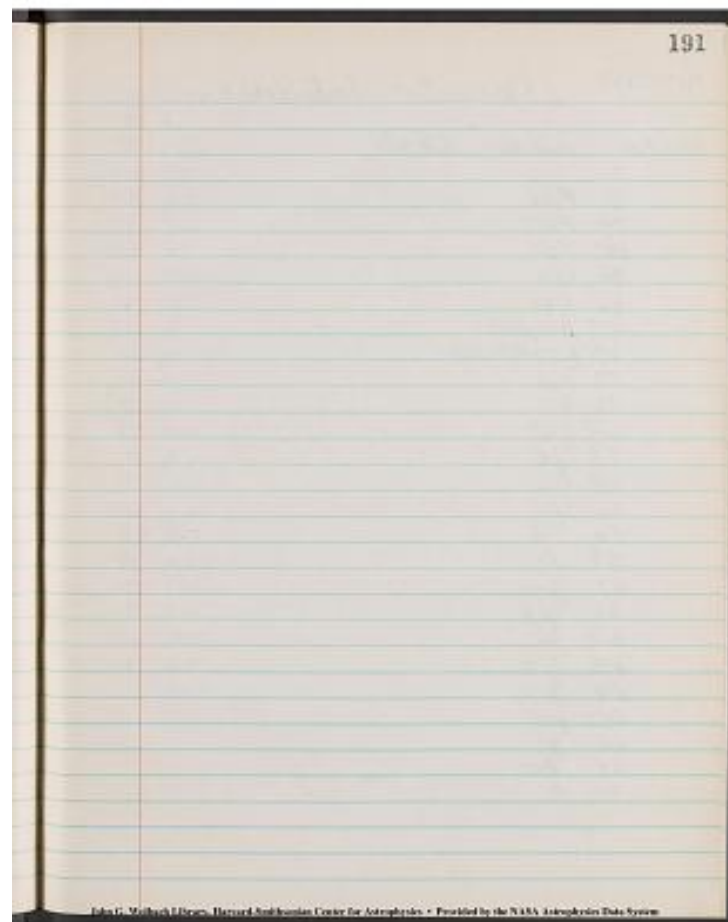
[[2 Columned Table]]

---	---
162	A0
163	A2
164	A0
165	A3
166	A0

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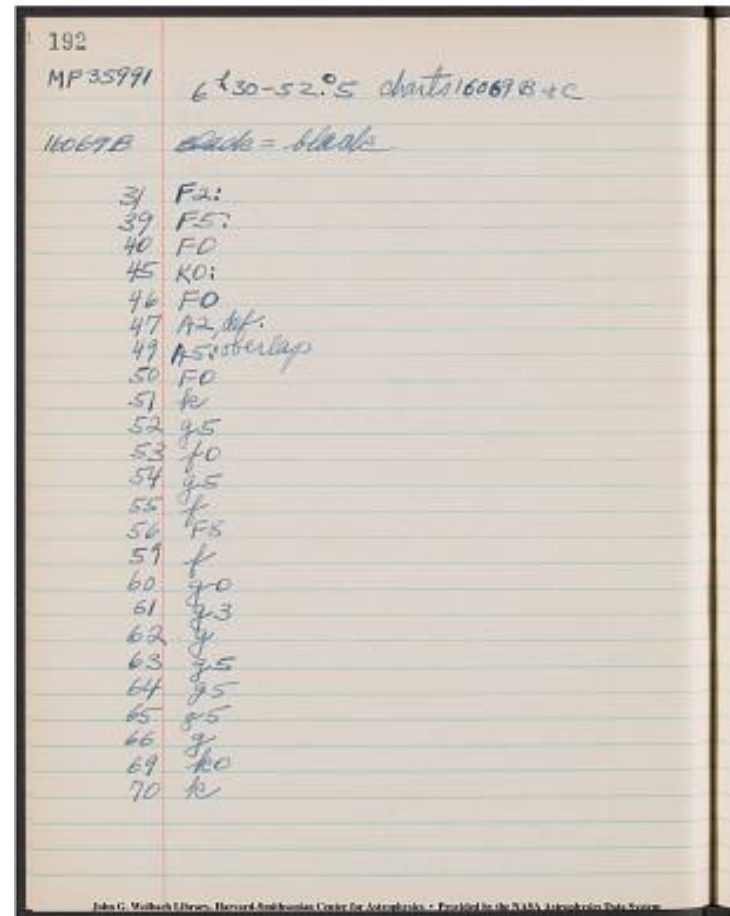


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192
MF 35991 6^[[]] 30 -52.5^[[°]] charts 16069 B & C

[[2 column table]]
16069B	Black = black
31 | F2: |
39 | F5: |
40 | F0 |
45 | K0: |
46 | F0 |
47 | A2, def. |
49 | A5: overlap |
50 | F0 |
51 | k |
52 | g5 |
53 | f0 |
54 | g5 |
55 | f |
56 | F8 |
59 | f |
60 | g0 |
61 | g3 |
62 | g |
63 | g5 |
64 | g5 |
65 | g5 |
66 | g |
69 | k0 |
70 | k |

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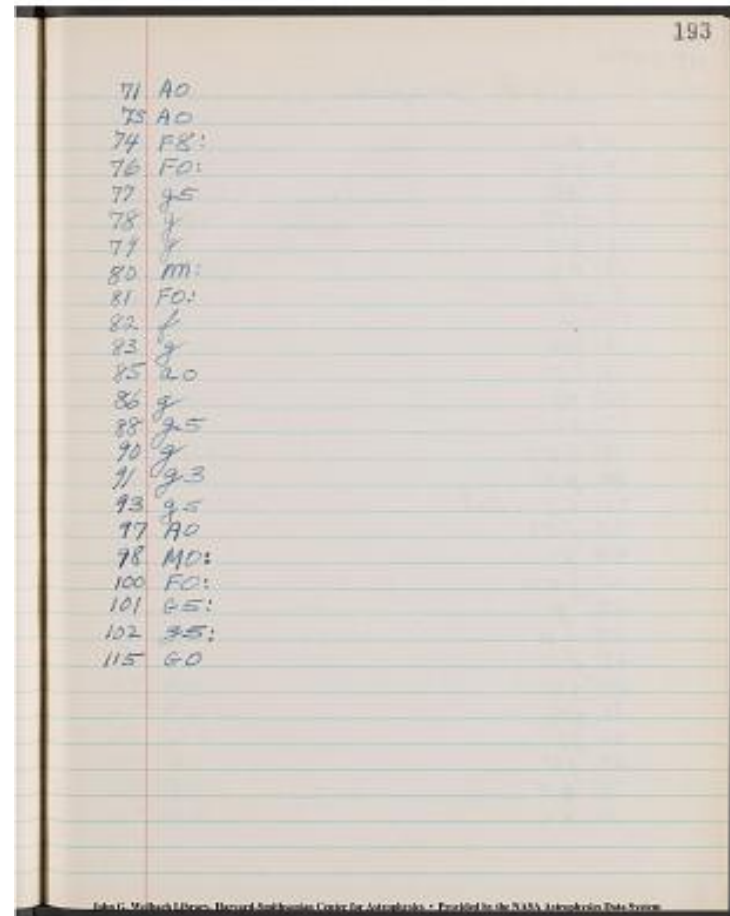


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193
[[2 column table]]

---	---
71	A0
73	A0
74	F8:
76	F0:
77	g5
78	g
79	g
80	m:
81	F0:
82	f
83	g
85	a0
86	g
88	g5
90	g
91	g3
93	g5
97	A0
98	M0:
100	F0:
101	G5:
102	g5:
115	G0

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71	A0
73	A0
74	F8:
76	F0:
77	g5
78	g
79	g
80	m:
81	F0:
82	f
83	g
85	a0
86	g
88	g5
90	g
91	g3
93	g5
97	A0
98	M0:
100	F0:
101	G5:
102	g5:
115	G0

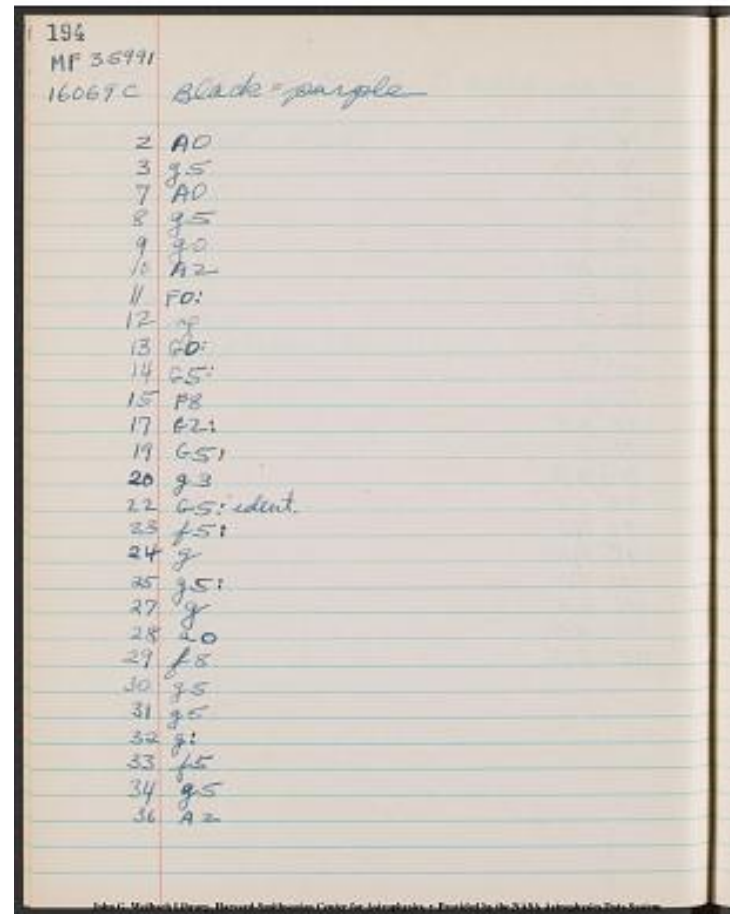
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194
MF 35991

[[2 column table]]
16069C	Black = purple

2	A0
3	g5
7	A0
8	g5
9	g0
10	A2
11	F0:
12	ng
13	G0:
14	f5:
15	F8
17	G2:
19	G5:
20	g3
22	G5: ident.
23	f5:
24	g
25	g5:
27	g
28	a0
29	f8
30	g5
31	g5
32	g:
33	f5
34	g5
36	A2

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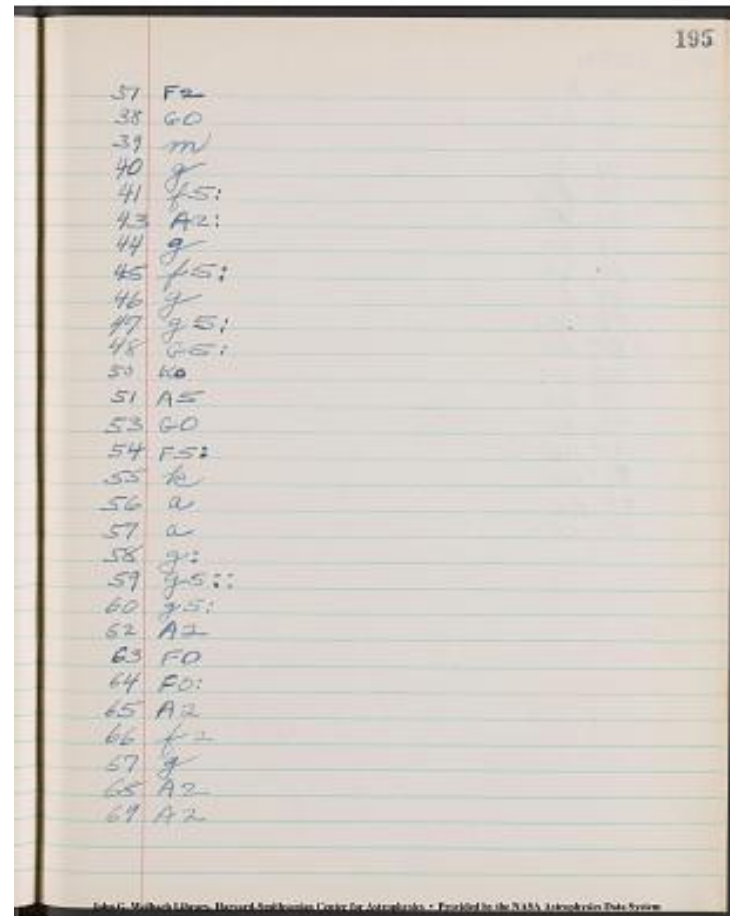
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195

[2 column table]

---	---
37	F2
38	G0
39	m
40	g
41	f5:
43	A2:
44	g
45	f5:
46	g
47	g5:
48	G5:
50	K0
51	A5
53	G0
54	F5:
55	k
56	a
57	a
58	g:
59	g5::
60	g5:
62	A2
63	F0
64	F0:
65	A2
66	f2
67	g
68	A2
69	A2

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196
MF 35991

[[2 Columned Table]]

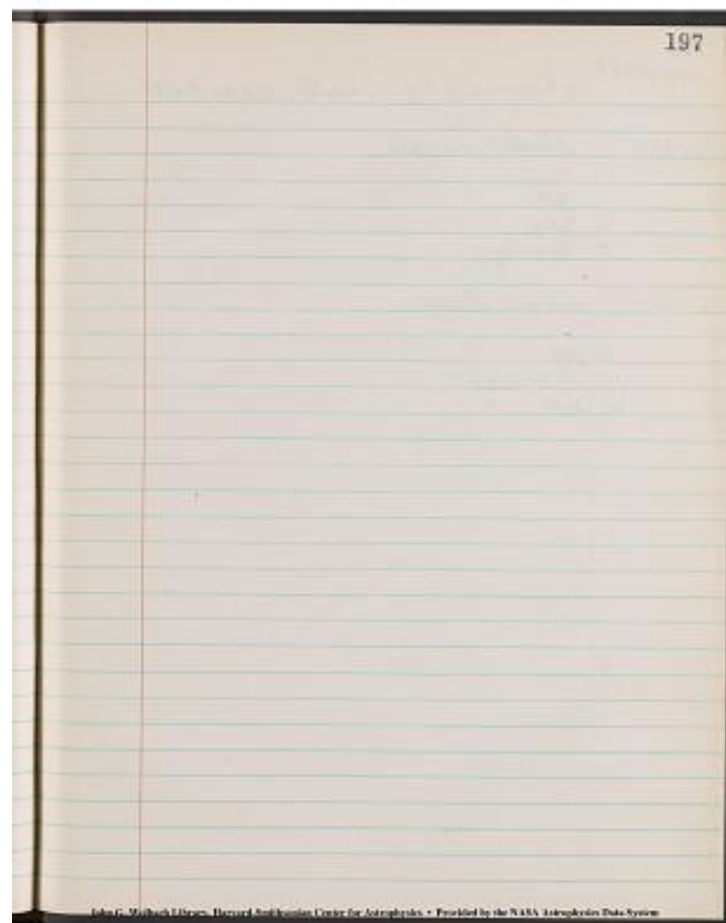
---	---
70	k:
71	k:
72	G0
74	k
75	f5
77	F0:
79	g
80	f
83	A
84	k:
85	k:
86	g:
89	A0
92	A5:
95	A0
97	A0
98	A0
103	K5:

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196
MF 35991

70	k:
71	k:
72	G0
74	k
75	f5
77	F0:
79	g
80	f
83	A
84	k:
85	k:
86	g:
89	A0
92	A5:
95	A0
97	A0
98	A0
103	K5:

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198
MF 38149 $9^h 00^m - 50.0^s$ charts 16240 A + B

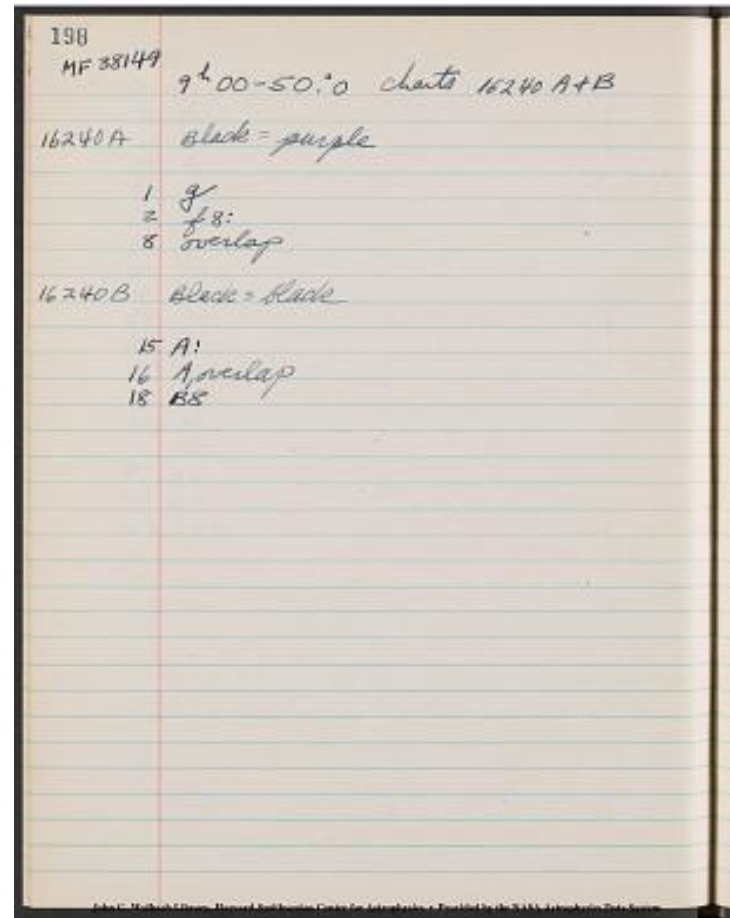
[[2 column table]]
16240A | Black = purple

1	g
2	f8:
8	overlap

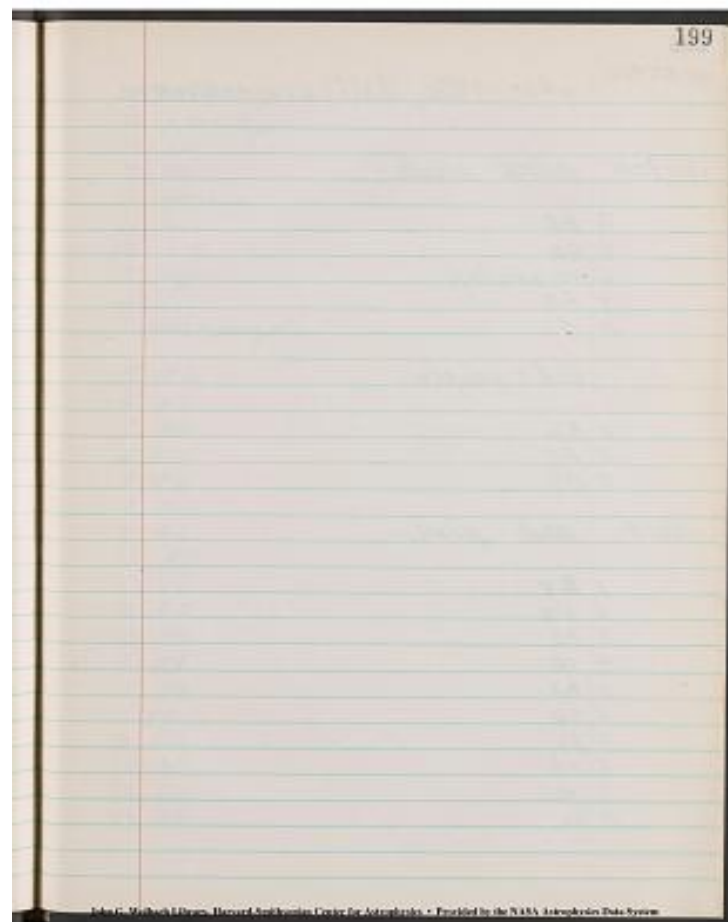
[[2 column table]]
16240B | Black = black

15	A:
16	A, overlap
18	B8

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200
 MF 35966
 9^h 00^m -57.^s 5 Charts 16240A + B, 15117C
 [[2 column table]]
16240A	Black = Black
 3 | B8: |
 4 | A3 |
 6 | F0: overlap |
 9 | A3 |
 10 | A3 |

| | Red = purple |
 1 | A2 |
 2 | F5 |
 3 | B9 |

[[2 column table]]
16240B	Black = black
 1 | B8 |
 2 | G2 |
 3 | A3 |
 4 | G0 |
 5 | A3 |
 6 | G0 |
 7 | A2 |
 8 | F8 |
 9 | A0 |
 10 | A2 |

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200
 MF 35966 9^h 00^m -57.^s 5, charts 16240A+B, 15117C
 16240A Black = black
 3 B8:
 4 A3
 6 F0: overlap
 9 A3
 10 A3
 Red = purple
 1 A2
 2 F5
 3 B9
 16240B Black = black
 1 B8
 2 G2
 3 A3
 4 G0
 5 A3
 6 G0
 7 A2
 8 F8
 9 A0
 10 A2

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201
 [[2 column table]]
 --- | --- |
 11 | overlap |
 12 | g, overlaps |
 13 | F5 |
 14 | F0 |
 15 | overlap |
 16 | a: |
 17 | a5 |
 19 | nf |

| Red = purple |
 3 | B8 |
 4 | G2 |
 5 | A0 |
 6 | K0: |
 7 | F0 |
 8 | G5 |
 9 | A2 |
 10 | A0 |
 11 | K2 |
 12 | A0 |
 13 | A3 |
 14 | B9 |
 15 | A0 |
 16 | F0 |
 17 | F8 |
 20 | A0 |
 22 | G5 |
 23 | A2 |

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201
 11 overlap
 12 g, overlaps
 13 F5
 14 F0
 15 overlap
 16 a:
 17 a5
 19 nf
 Red = purple
 3 B8
 4 G2
 5 A0
 6 K0:
 7 F0
 8 G5
 9 A2
 10 A0
 11 K2
 12 A0
 13 A3
 14 B9
 15 A0
 16 F0
 17 F8
 20 A0
 22 G5
 23 A2

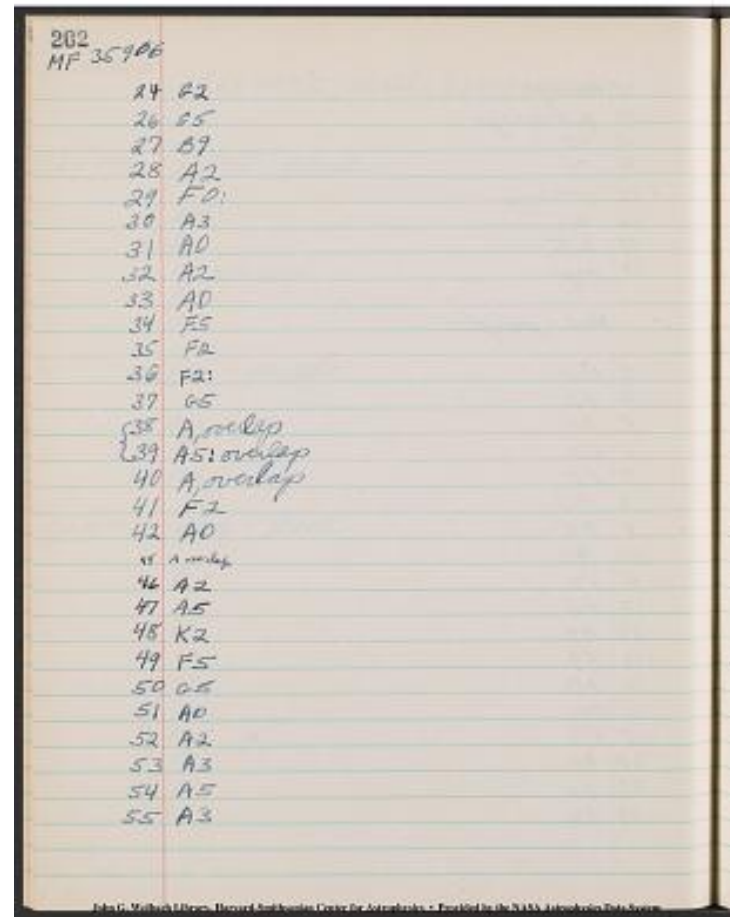
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202
MF 35966

[[2 Columned Table]]

24	G2
26	G5
27	B9
28	A2
29	F0:
30	A3
31	A0
32	A2
33	A0
34	F5
35	F2
36	F2:
37	G5
38	A, overlap
39	A5: overlap
40	A, overlap
41	F2
42	A0
45	A overlap
46	A2
47	A5
48	K2
49	F5
50	G5
51	A0
52	A2
53	A3
54	A5
55	A3

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203
MF 35966

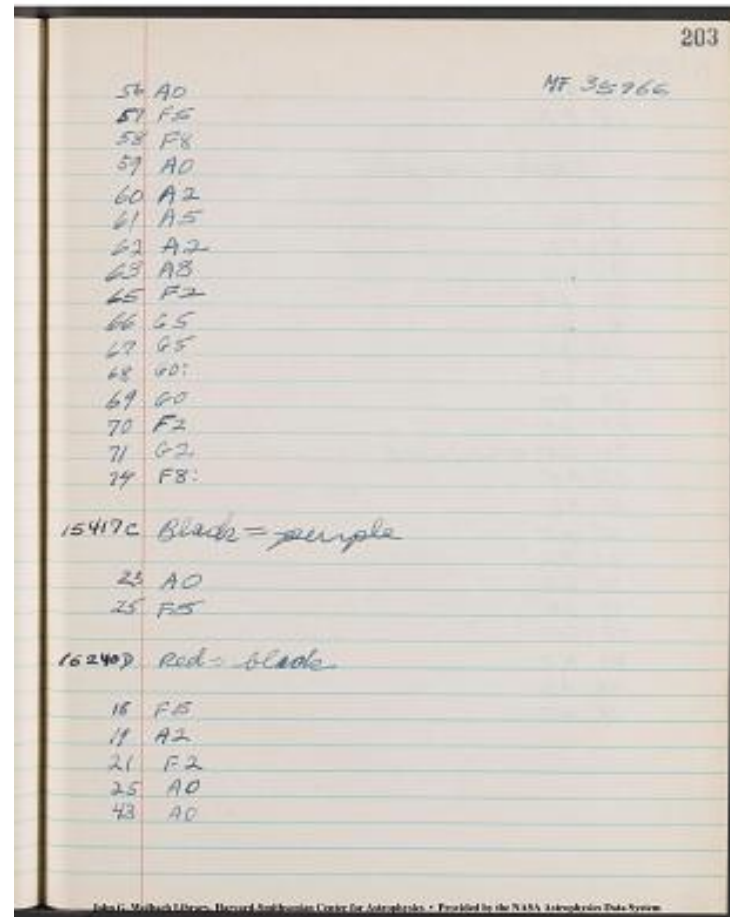
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56	A0
57	F5
58	F8
59	A0
60	A2
61	A5
62	A2
63	A8
65	F2
66	G5
67	G5
68	G0:
69	G0
70	F2
71	G2
74	F8:

15417C | Black = purple
23 | A0
25 | F8

16240D | Red = black
18 | F5
19 | A2
21 | F2
25 | A0
43 | A0

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204
MF35966

[[2 Columned Table]]

44	A0
64	F2

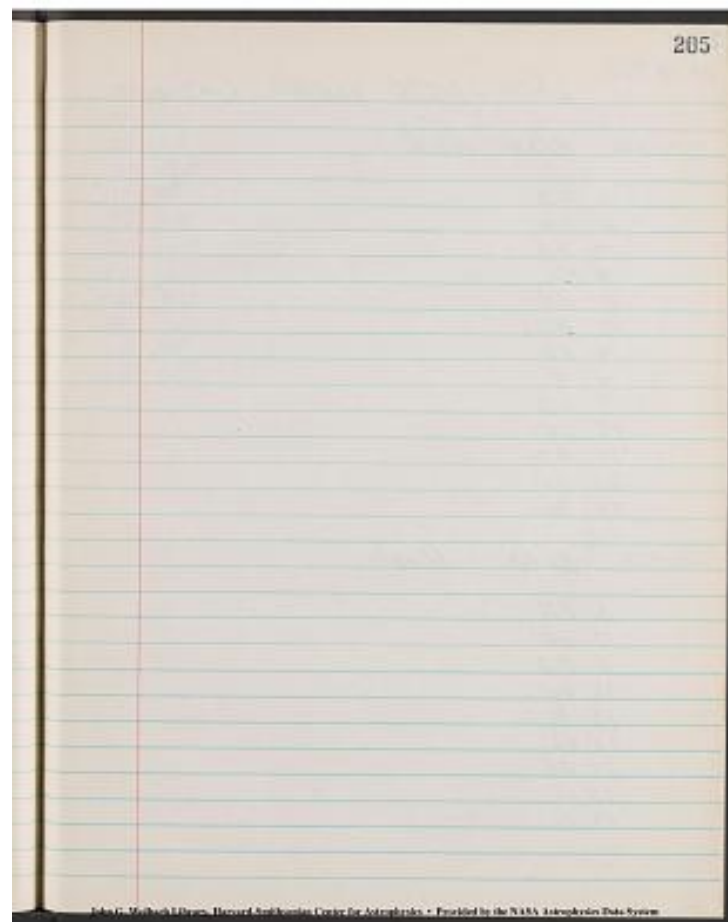
2	Black = purple
2	a2:
8	F8:
11	g5
17	f5
18	g
22	g5
23	G3
24	F0
27	A0
31	G0:overexposed
32	F5
33	A2
35	g5
37	F2
38	G3
39	G0
40	G0:
42	K0
43	A5
44	A0

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204
MF35966

44	A0
64	F2
Black = purple	
2	a2:
8	F8:
11	g5
17	f5
18	g
22	g5
23	G3
24	F0
27	A0
31	G0:overexposed
32	F5
33	A2
35	g5
37	F2
38	G3
39	G0
40	G0:
42	K0
43	A5
44	A0

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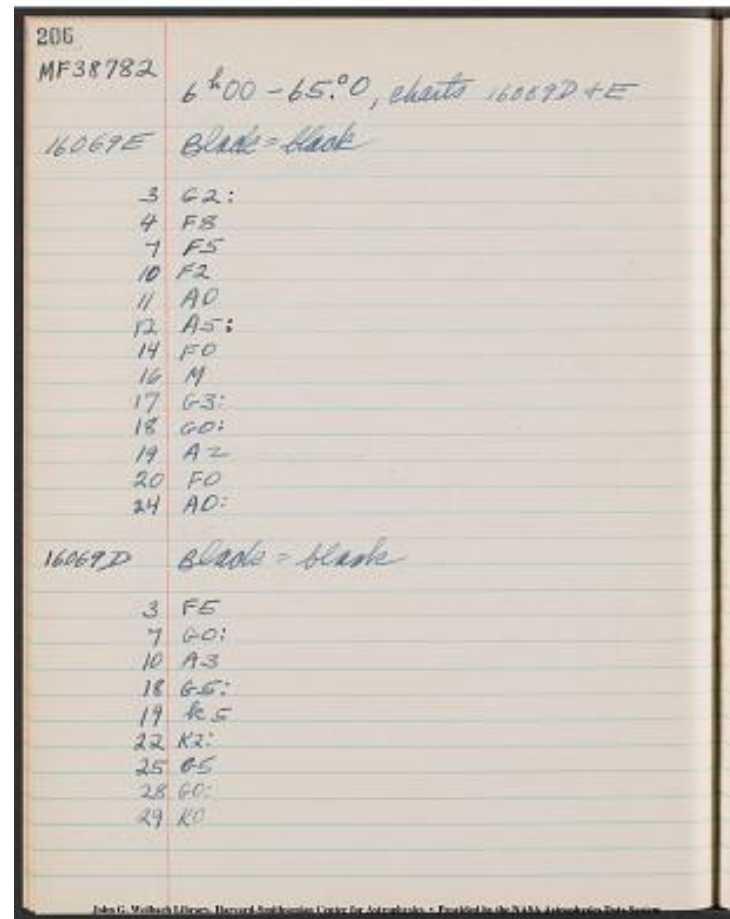
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206
MF 38782
6^h00 - 65.^m0, charts 16069D & E

[[2 column table]]
16069E	Black = black
3 | G2: |
4 | F8 |
7 | F5 |
10 | F2 |
11 | A0 |
12 | A5: |
14 | F0 |
16 | M |
17 | G3: |
18 | G0: |
19 | A2 |
20 | F0 |
24 | A0: |

[[2 column table]]
16069D	Black = black
3 | F5 |
7 | G0: |
10 | A3 |
18 | G5: |
19 | K5 |
22 | K2: |
25 | G5 |
28 | G0: |
29 | K0 |

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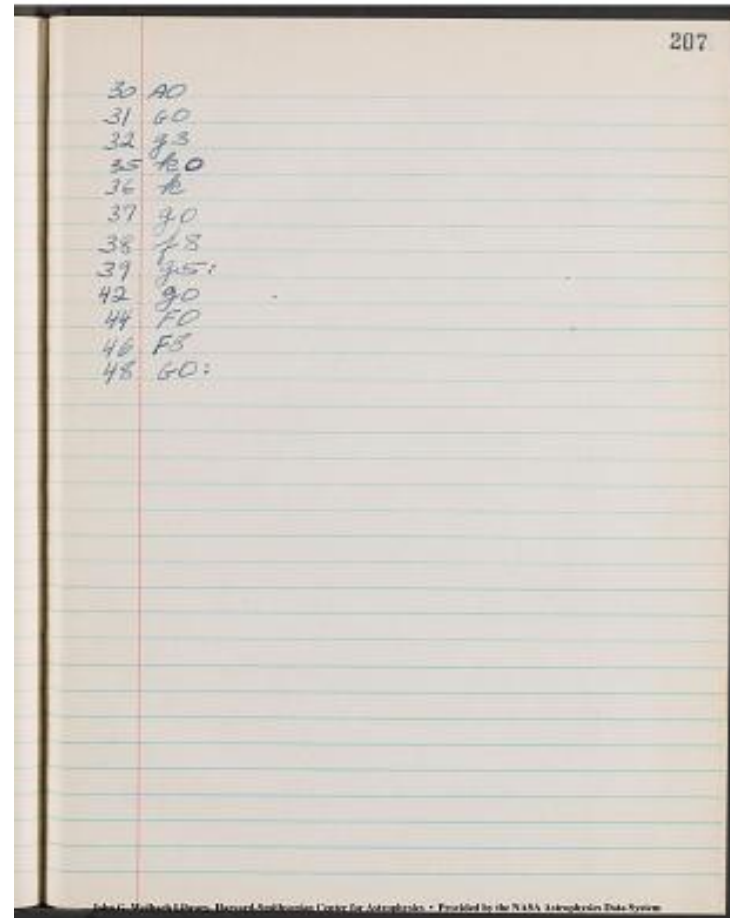
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207

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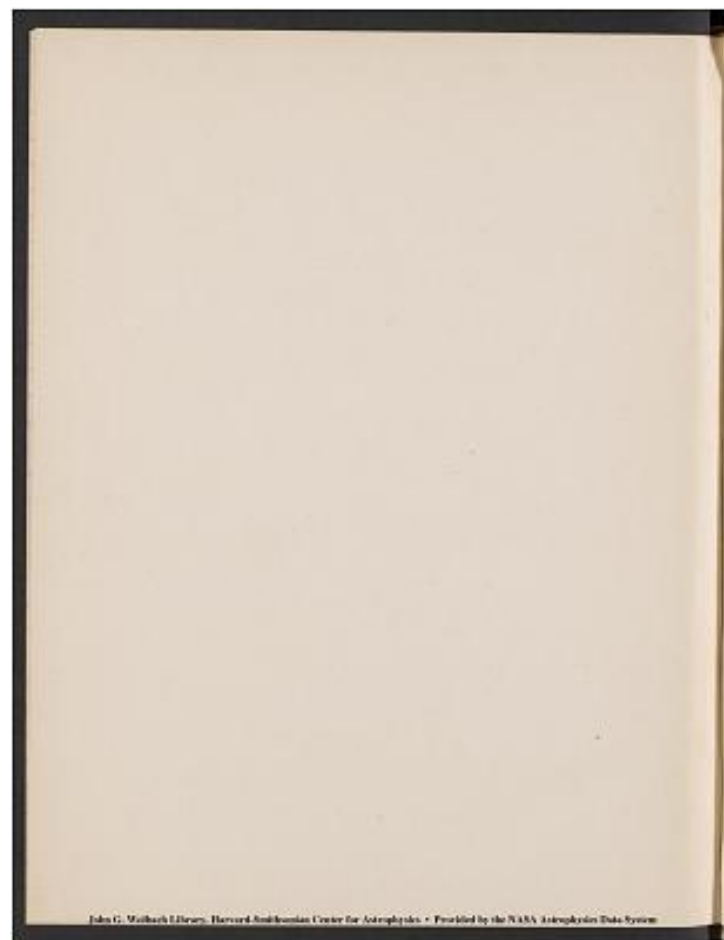
---	---
30	A0
31	G0
32	g3
35	k0
36	k
37	g0
38	f8
39	g5:
42	g0
44	F0
46	F8
48	G0:

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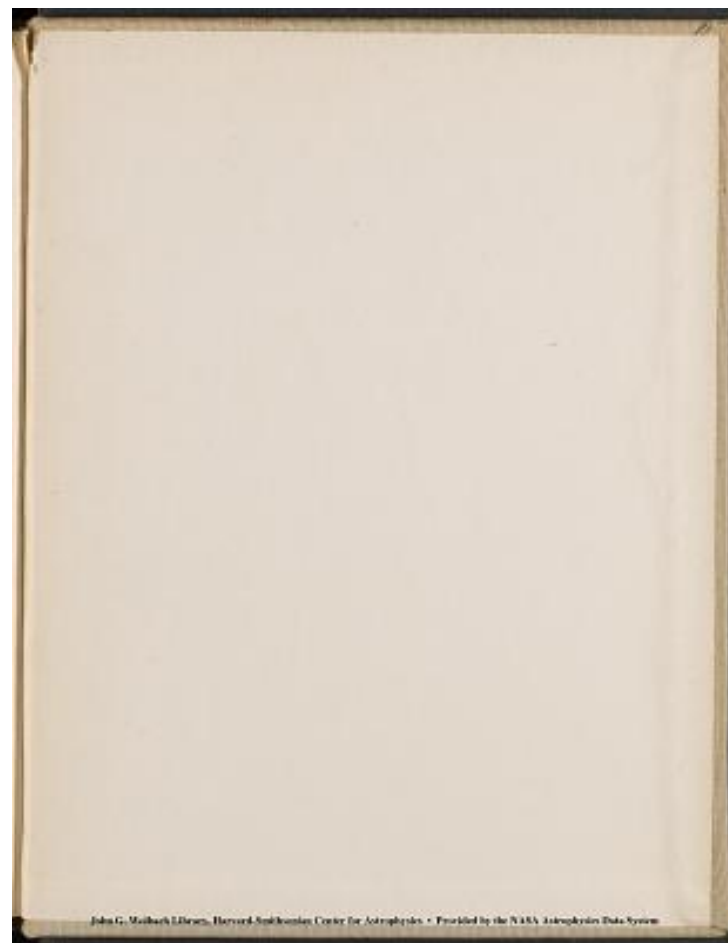
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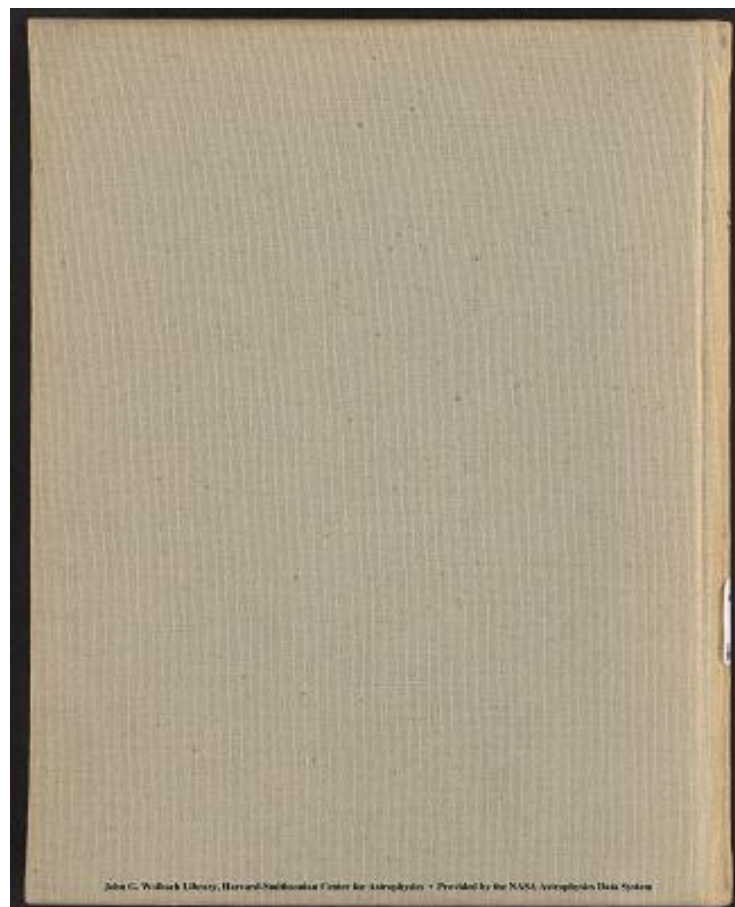
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