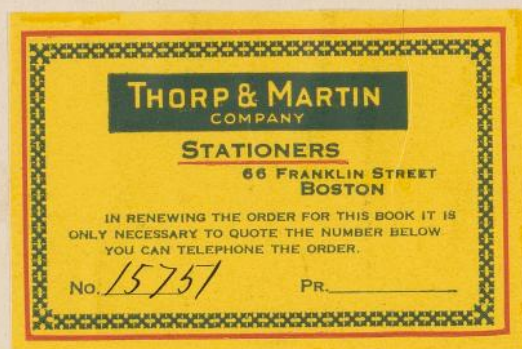


57



RECEIVED
JAN 10 1928
HARVARD-SMITHSONIAN CENTER FOR ASTRONOMY

(Book 5.)

Measures of magnitudes on 4 hr. plates of
 M 31 in Coma-Virgo group.

Plate A 6719	$12^h 30^m + 17.5$	pg 3.
A 6718	$12 10 + 12.5$	pg. 51
A 6720		pg 101
A 13810		pg 133

Magnitude sequences adopted for	A 6719	pg. 209
" " " "	A 6718	pg 211
" " " "	A 6720	pg 213
Magnitude sequences adopted for	A 13810	pg 215

For 204 nebulae, between mag 16.1 and 16.9,
chosen at random the mean of the
residuals was .07915 mag.

For 385 nebulae between 17.0 and 18.2
chosen at random the mean of the
residuals was .06196 mag.

For all 589 together .06853

A 6719

3

Net. Sec. No.	Mag. 1	Mag. 2	Mean	Resid.	Diff.	Corrected to Mean
B 236	17.3	17.3	17.3	0,0	0	17.5
Sequence 10, 11, 12, 13						
B 234	17.1	17.2	17.2	1,0	1	17.4
B 235	17.8	17.6	17.7	1,1	-2	17.9
B 233	17.0	17.3	17.2	2,1	3	17.4
B 232	17.6	17.6	17.6	0,0	0	17.8
237	17.7	17.7	17.7	0,0	0	17.9
238	17.1	17.1	17.1	0,0	0	17.3
239	16.8	16.9	16.8	0,1	1	17.0
249	17.9	17.8	17.8	1,0	-1	18.0
248	17.5	17.4	17.4	1,0	-1	17.6
254	17.3	17.1	17.2	1,1	-2	17.4
255	17.1	17.0	17.0	1,0	-1	17.2
247	16.4	16.5	16.4	0,1	1	16.6
256	17.6	17.5	17.6	0,1	-1	17.8
B 257	16.5	16.7	16.6	1,1	2	16.7

of other
three
plates.

See page
208.

4	Net.	Mag. 1	Mag. 2	Mean	Resid	Diff.	
	Sec. No.						
B	246	17.4	17.5	17.4	0, 1	1	17.6
	243	17.3	17.6	17.4	1, 2	3	17.6
	242	17.5	17.8	17.6	1, 2	3	17.8
	244	17.3	17.4	17.4	1, 0	1	17.6
	240	17.4	17.7	17.6	2, 1	3	17.8
	231	16.8	17.0	16.9	1, 1	2	17.1
	230	16.7	16.9	16.8	1, 1	2	17.0
star n.p.	229	17.2	17.3	17.2	0, 1	1	17.4
	224	16.6	16.9	16.8	2, 1	3	17.0
	223	16.4	16.4	16.4	0, 0	0	16.5
	221	17.6	17.6	17.6	0, 0	0	17.8
	222	17.1	16.8	17.0	1, 2	- 3	17.2
	220	17.0	16.7	16.8	2, 1	- 3	17.0
	225	16.8	16.9	16.8	0, 1	1	17.0
B	227	16.3	16.5	16.4	1, 1	2	16.5

Net	Mag. 1	Mag. 2	Mean	Resid.	Diff.	6719	5
Ser. No							
B 226	17.3	17.3	17.3	0, 0	0	17.5	
219	17.6	17.6	17.6	0, 0	0	17.8	
218	17.2	17.1	17.2	0, 1	-1	17.4	
216	17.8	17.7	17.8	0, 1	-1	18.0	
217	17.9	17.8	17.8	1, 0	-1	18.0	
215	17.2	17.4	17.3	1, 1	2	17.5	
B 214	16.6 17.0	17.0	16.9	3, 1, 1	4	17.1	
C 155	17.7	17.8	17.8	1, 0	1	18.0	
156	16.8	17.1	17.0	2, 1	3	17.2	
157	17.5	17.6	17.6	1, 0	1	17.8	
158	16.7	17.0	16.8	1, 2	3	17.0	
159	17.3	17.2	17.2	1, 0	-1	17.4	
160	17.5	17.8	17.6	1, 2	3	17.8	
161	17.6	17.4	17.5	1, 1	-2	17.7	
C 162	17.7	17.7	17.7	0, 0	0	17.9	
A 6719							

6

C	163	16.5	16.4	16.4	1, 0	- 1	16.6
	164	17.6	17.7	17.6	0, 1	1	17.8
	151	16.3	16.3	16.3	0, 0	0	16.3
	152	16.9	16.7	16.8	1, 1	- 2	17.0
	154	17.9	17.9	17.9	0, 0	0	18.1
	153	17.8	17.9	17.8	0, 1	1	18.0
	120	17.7	17.5	17.6	1, 1	- 2	17.8
	121	17.7	17.6	17.6	1, 0	- 1	17.8
	122	16.7	16.9	16.8	1, 1	2	17.0
	123	17.8	17.8	17.8	0, 0	0	18.0
	111	17.7	17.9	17.8	1, 1	2	18.0
	124	17.4	17.5	17.4	0, 1	1	17.6
	125	17.5	17.6	17.6	1, 0	1	17.8
	126	17.5	17.5	17.5	0, 0	0	17.7
C	131	17.1 17.3	17.3 17.2	17.2	1, 1, 0	2	17.4

-26 +57

Net.	May 1	May 2	Mean			6719
Sec. No.						
C 132	17.3 17.6	17.4 17.6	17.4 ⁵ 17.4	2, 2, 1, 1 4, 4	1	17.7
133	17.4 17.6	17.5	17.4	0, 1	1	17.6
134	17.7 17.5	17.3	17.5	2, 2, 0	-4	17.7
143	17.7	17.7	17.7	0, 0	0	17.9
144	16.6	16.7	16.6	0, 1	1	16.8
145	16.7	16.6	16.6	1, 0	-1	16.8
142	17.4	17.7	17.6	2, 1	3	17.8
146	16.1	16.4	16.2	1, 2	3	16.3
148	16.5	16.7	16.6	1, 1	2	16.7
149	16.6	16.8	16.7	1, 1	2	16.9
150	17.8	17.8	17.8	0, 0	0	18.0
147	17.5	17.5	17.5	0, 0	0	17.7
135	16.2	16.3	16.2	0, 1	1	16.3
134	17.7					
C 133	17.6					

A 6719

8

C (132 ~ 17.6 17.6 17.6 0,0 0) } transferred
 (131 ~ 17.3 17.2 17.2 1,0 -1)

130 17.6 17.4 17.5 1,1 -2 17.7

129 17.5 17.3 17.4 1,1 -2 17.6

128 16.7 16.7 16.7 0,0 0 16.9

127 17.8 17.8 17.8 0,0 0 18.0

119 17.5 17.4 17.4 1,0 -1 17.6

118 17.6 17.7 17.6 0,1 1 17.8

Scratch? 117 ~~(17.4)~~ 17.3 17.3 0,1,0
 17.4 17.3 ~~3,3,3~~ -5 17.5

116 17.7 17.4 17.6 1,2 -3 17.8

115 17.3 17.2 17.2 1,0 -1 17.4

114 17.7 17.8 17.8 1,0 1 18.0

113 16.6 16.4 16.5 1,1 -2 16.6

112 17.8 17.6 17.7 1,1 -2 17.9 large

C 110 17.4 17.3 17.4 0,1 -1 17.6

Neb.	Mag. 1	Mag. 2	Mean			6719
Sec. No. C 109	17.8	17.8	17.8	0, 0	0	18.0
108	17.3	17.3	17.3	0, 0	0	17.5
107	17.4	17.4	17.4	0, 0	0	17.6
106	17.5	17.6	17.6	1, 0	1	17.8
105	17.3	17.4	17.4	1, 0	1	17.6
104	16.9	17.2	17.0	1, 2	3	17.2
103	16.9	17.0	17.0	1, 0	1	17.2
100	17.3	17.3	17.3	0, 0	0	17.5
99	17.8	17.8	17.8	0, 0	0	18.0
102	17.4	17.5	17.4	0, 1	1	17.6
101	17.9	17.9	17.9	0, 0	0	18.1
91	17.6	17.8	17.7	1, 1	2	17.9
92	17.6	17.6	17.6	0, 0	0	17.8
93	17.5	17.5	17.5	0, 0	0	17.7
94	17.7	17.7	17.7	0, 0	0	17.9

A 6719

C	95	17.6	17.5	17.6	0, 1	- 1	17.8
	96	17.8	17.7	17.8	0, 1	- 1	18.0
	97	^{17.1} 17.2	17.2	17.2	0, 0, 1	¹ 0	17.4
	98	^{17.2} 17.4	17.4	17.3	1, 1, 1	² 0	17.5
	88	17.4	17.5	17.4	0, 1	1	17.6
	89	17.7	17.8	17.8	1, 0	1	18.0
	86	17.6	17.7	17.6	0, 1	1	17.8
	87	17.7	17.9	17.8	1, 1	2	18.0
	84	17.5	17.5	17.5	0, 0	0	17.7
	79	17.8	17.8	17.8	0, 0	0	18.0
	78	17.5	17.3	17.4	1, 1	- 2	17.6
	77	18.0	17.8	17.9	1, 1	- 2	18.1
	76	17.8	17.6	17.7	1, 1	- 2	17.9
	75	17.5	17.5	17.5	0, 0	0	17.7
C	74	^{17.0} 17.2	17.1	17.1	1, 0, 1	¹ - 1	17.3

-34 +30

Net.	May 1	May 2	Mean			6719
Sec. No.						
C 83	17.9	17.8	17.8	1, 0	-1	18.0
85	17.4	17.4	17.4	0, 0	0	17.6
82	18.0 ^{corrected?}	17.7	17.8	2, 1	-3	18.0
81	17.6	17.3	17.4	2, 1	-3	17.6
80	17.7	17.9	17.8	1, 1	2	18.0
C 90	17.4	17.1	17.2	2, 1	-3	17.4
I.C. 355-7	16.1	16.3	16.2	1, 1	2	16.2
B 165	17.8	17.8	17.8	0, 0	0	18.0
164	17.9	17.9	17.9	0, 0	0	18.1
163	17.1	16.9	17.0	1, 1	-2	17.2
166	16.8 17.0	17.0	16.9 17.8	1, 1, 1 0, 0, 0	2 0	17.1
167	16.9 17.0	17.2	17.0	0, 2, 1 0, 0, 0	3 2	17.2
178	17.2	17.2	17.2	0, 0	0	17.4
177	17.3	17.3	17.3	0, 0	0	17.5
B 182	17.3	17.5	17.4	1, 1	2	17.6

A 6719

12

B	181	16.9	16.7	16.8	1, 1	-2	17.0
	180	17.8	17.7	17.8	0, 1	-1	18.0
	179	17.7	17.6	17.6	1, 0	-1	17.8
	241	16.9	16.8	16.8	1, 0	-1	17.0
	245	17.2	17.2	17.2	0, 0	0	17.4
	261	16.9	16.9	16.9	0, 0	0	17.1
	262	17.0	17.3	17.2	2, 1	3	17.4
	263	17.3	17.5	17.4	1, 1	2	17.6
	258	17.6	17.6	17.6	0, 0	0	17.8
	259	17.6	17.5	17.6	0, 1	-1	17.8
	260	17.2	17.4	17.3	1, 1	2	17.5
	250	17.0	17.0	17.0	0, 0	0	17.2
	251	16.6	16.7	16.6	0, 1	1	16.7
	252	17.6	17.7	17.6	0, 1	1	17.8
B	253	17.7	17.6	17.6	1, 0	-1	17.8

Net.	Mag. 1	Mag. 2	Mean				6719
Sec. No							
B 278	15.6	15.5	15.6	0, 1	-1		15.6
276	17.3	17.5	17.4	1, 1	2		17.6
275	16.3	16.4	16.4	1, 0	1		16.4
I.C. 803	15.8	16.1	16.0	2, 1	3	✓	16.0
Sequenced	17.4						
B 186	17.3	17.6	17.4	1, 2, 0	3		17.6
187	16.5	16.7	16.6	1, 1	2		16.7
188	17.0	17.0	17.0	0, 0	0		17.2
189	17.3	17.4	17.4	1, 0	1		17.6
185	16.9	17.1	17.0	1, 1	2		17.2
184	16.8	17.0	16.9	1, 1	2		17.1
183	16.6	16.8	16.7	1, 1	2		16.9
171	17.1	17.3	17.2	1, 1	2		17.4
299	17.0	17.2	17.1	1, 1	2		17.3
175	17.7	17.8	17.8	1, 0	1		18.0
B 298	17.2	17.3	17.2	0, 1	1		17.4

A6719

14

B	172	17.6	17.7	17.6	0, 1	1	17.8
	170	17.0	16.9	17.0	0, 1	-1	17.2
	173	17.6	17.6	17.6	0, 0	0	17.8
	174	17.7	17.7	17.7	0, 0	0	17.9
	168	16.9	17.0	17.0	1, 0	1	17.2 star sf.
	169	17.4	17.4	17.4	0, 0	0	17.6
	176	17.7	17.6	17.6	1, 0	-1	17.6
	162	17.3	17.3	17.3	0, 0	0	17.5
	161	17.5	17.5	17.5	0, 0	0	17.7
	160	17.8	17.8	17.8	0, 0	0	18.0
	159	17.5	17.5	17.5	0, 0	0	17.7
	158	17.7	17.7	17.7	0, 0	0	17.9
	153	17.4	17.4	17.4	0, 0	0	17.6
	154	17.1	16.9	17.0	1, 1	-2	17.2
B	155	17.5	17.3	17.4	1, 1	-2	17.6
					✓	-26 +43	

Net.	May 1	May 2				6719
See No.						
B 156	17.6 17.3	17.2	17.4	2, 2, 1	-4	17.6
202	17.3	17.4	17.4	1, 0	1	17.6
203	17.0	16.9	17.0	0, 1	-1	17.2
204	17.4	17.2	17.3	1, 1	-2	17.5
205	17.5	17.4	17.4	1, 0	-1	17.6
206	17.5	17.4	17.4	1, 0	-1	17.6
207	17.2	17.2	17.2	0, 0	0	17.4
star? 208	17.4	17.4	17.4	0, 0	0	17.6
209	17.8	17.9	17.8	0, 1	1	18.0
210	17.7	17.8	17.8	1, 0	1	18.0
star? 211	17.6	17.7	17.6	0, 1	1	17.8
212	17.3	17.3	17.3	0, 0	0	17.5
213	17.6	17.7	17.6	0, 1	1	17.8
201	16.4 16.3	16.6	16.4	1, 2, 0	2 3	16.5
B ? 200	17.7	17.9	17.8	1, 1	2	18.0

A6719

16

B	199	16.4 16.6	16.8	16.6	2, 2, 0	4	16.7
	198	16.3 16.2	16.4	16.3	0, 1, 1	1	16.3
	197	17.4	17.4	17.4	0, 0	0	17.6
	196	17.1	17.1	17.1	0, 0	0	17.3
	264	17.6	17.4	17.5	1, 1	-2	17.7
	265	17.4	17.4	17.4	0, 0	0	17.6
	266	17.5	17.5	17.5	0, 0	0	17.7
	267	17.6	17.5	17.6	0, 1	-1	17.8
	268	17.8	17.8	17.8	0, 0	0	18.0
	269	17.7	17.7	17.7	0, 0	0	17.9
stars f	270	17.7	17.8	17.8	1, 0	1	18.0
	271	17.6	17.7	17.6	0, 1	1	17.8
	272	16.4	16.5	16.4	0, 1	1	16.6
	273	17.6	17.6	17.6	0, 0	0	17.8
B	274	17.9	17.8	17.8	1, 0	-1	18.0

Neb.		Mag 1	Mag 2				6719
Sec.	No.						
A	12	17.5	17.5	17.5	0, 0	0	17.7
	13	17.5	17.5	17.5	0, 0	0	17.7
	14	16.9 17.1	17.3	17.1	3, 2, 0	4	17.2
	26	16.8	16.7	16.8	0, 1	-1	17.0
	27	16.5	16.5	16.5	0, 0	0	16.6
	28	17.4	17.3	17.4	0, 1	-1	17.6
	29	17.5	17.5	17.5	0, 0	0	17.7
	30	16.3	16.6	16.4	1, 2	3	16.5
A	31	17.2	17.0	17.1	1, 1	-2	17.3
Sequence glyph.							
B	97	17.6	17.5	17.6	0, 1	-1	17.8
	98	16.9	16.8	16.8	1, 0	-1	17.0
	99	17.5	17.6	17.6	1, 0	1	17.8
	100	17.8	17.9	17.8	0, 1	1	18.0
B	133	17.8	17.8	17.8	0, 0	1	18.0
C	40	17.9	17.8	17.8	1, 0	-1	18.0

A 6719

C	39	16.8	16.8	16.8	0, 0	0	17.0
	41	17.8	17.7	17.8	0, 1	-1	18.0
	42	17.6	17.6	17.6	0, 0	0	17.8
	43	17.6	17.7	17.6	0, 1	1	17.8
	44	16.9	16.9	16.9	0, 0	0	17.1
	45	17.2	17.1	17.2	0, 1	-1	17.4
	46	16.9	16.8	16.8	1, 0	-1	17.0
	47	17.5	17.5	17.5	0, 0	0	17.7
	48	17.6	17.6	17.6	0, 0	0	17.8
	17	17.5	17.6	17.6	1, 0	1	17.8
	19	17.0	16.9	17.0	0, 1	-1	17.2
	18	16.5	16.5	16.5	0, 0	0	16.6
C	16	17.1	17.2	17.2	1, 0	1	17.4
B	134	17.9	17.8	17.8	1, 0	-1	18.0
B	135	17.2	17.1	17.2	0, 1	-1	17.4

-26 +31

Net.	Mag. 1	Mag. 2	Mean	Resid	Puff.	
Sen. No.						6719
B 136	stellar					
137	18.0	17.8	17.9	1, 1	- 2	18.1
138	17.1	17.3	17.2	1, 1	2	17.4
star, 139	17.2	17.1	17.2	0, 1	- 1	17.4
140	16.6	16.9	16.8	2, 1	3	17.0
141	16.3	16.5	16.4	1, 1	2	16.5
142	17.5	17.4	17.4	1, 0	- 1	17.6
143	17.0	17.0	17.0	0, 0	0	17.2
144	17.4	17.3	17.4	0, 1	- 1	17.6
145	17.7	17.8	17.8	1, 0	1	18.0
146	17.0	17.1	17.0	0, 1	1	17.2
147	17.6	17.6	17.6	0, 0	0	17.8
148	16.7	16.9	16.8	1, 1	2	17.0
149	17.2	17.3	17.2	0, 1	1	17.4
B 150	16.5	16.8	16.6	1, 2	3	16.8

A 6719

B	151	17.0	17.3	17.2	2, 1	3	17.4
	152	17.4	17.6	17.5	1, 1	2	17.7
	297	17.6	17.8	17.7	1, 1	2	17.9
	190	17.4	17.7	17.6	2, 1	3	17.8
	191	17.0	17.0	17.0	1, 0	0	17.2
	192	17.2	17.3	17.2	0, 1	1	17.4
	193	17.7	17.9	17.8	1, 1	2	18.0
	194	17.3	17.4	17.4	1, 0	1	17.6
	195	17.6	17.7	17.6	0, 1	1	17.8
	157	17.5	17.4	17.4	1, 0	-1	17.6
B	101	16.6	16.8	16.7	1, 1	2	16.9
I.C. 3580	15.8:	16.0	15.9	1, 1	2	✓	15.9
B	102	^{16.5} 16.3	16.5	16.4	1, 1, 1	0 2	16.5
	103	17.7	17.5	17.6	1, 1	-2	17.8
	104	16.5	16.7	16.6	1, 1	2	16.7

Net.		Mag	Mag				6719	21
Sec. No.		1	2					
B	105	17.7	17.7	17.7	0, 0	0	17.9	
	106	17.1	17.2	17.2	1, 0	1	17.4	
	107	17.8	17.8	17.8	0, 0	0	18.0	
	108	18.0	17.9	18.0	0, 1	-1	18.2	
	109	17.9	17.8	17.8	1, 0	-1	18.0	
	110	17.7	17.6	17.6	1, 0	-1	17.8	
	126	17.1	17.3	17.2	1, 1	2	17.4	
	127	17.8	17.7	17.8	0, 1	-1	18.0	
	128	17.8	17.8	17.8	0, 0	0	18.0	
	129	16.9	16.8	16.8	1, 0	-1	17.0	
	130	17.9	17.9	17.9	0, 0	0	18.1	
	131	17.8	17.8	17.8	0, 0	0	18.0	
	132	16.2 16.5	16.6 16.4	16.4	2, 2, 1, 0	4	16.5	
	111	16.6	16.8	16.7	1, 1	2	16.9	
B	117	17.8	17.6	17.7	1, 1	-2	17.9	

A 6719

22

B	118	17.6	17.5	17.6	0, 1	-1	17.8
	119	17.4	17.4	17.4	0, 0	0	17.6
	120	17.7	17.5	17.6	1, 1	-2	17.8
	125	17.9	17.9	17.9	0, 0	0	18.1
	124	17.1	16.9	17.0	1, 1	-2	17.2
	122	17.8	17.7	17.8	0, 1	-1	18.0
	123	17.8	17.7	17.8	0, 1	-1	18.0
	121	17.2	17.4	17.3	1, 1	2	17.5
	116	17.7	17.7	17.7	0, 0	0	17.9
	115	17.8	17.8	17.8	0, 0	0	18.0
	113	17.2	17.3	17.2	0, 1	1	17.4
	112	17.5	17.5	17.5	0, 0	0	17.7
B.	114	17.4	17.5	17.4	0, 1	1	17.6
A.	2	17.7	17.4 17.6	17.6	1, 0, 3	-3 -1	17.8
A	3	17.3	17.2	17.2	1, 0	-1	17.4
					✓	-24 + 51	

Net.	Mag.	Mag.				6719
Sec. No.	1	2				
A 4	17.8	17.6	17.7	1, 1	-2	17.9
5	17.8	17.7	17.8	0, 1	-1	18.0
6	17.0	17.1	17.0	0, 1	1	17.2
7	17.1	17.0	17.0	1, 0	-1	17.2
8	17.6	17.4	17.5	1, 1	-2	17.7
A 9	17.4	17.4	17.4	0, 0	0	17.6
B 300	17.6	17.6	17.6	0, 0	0	17.8
301	17.9	17.8	17.8	1, 0	1	18.0
302	17.7	17.7	17.7	0, 0	0	17.9
46	17.1	17.3	17.2	1, 1	2	17.4
43	17.0	17.2	17.1	1, 1	2	17.3
40	17.5	17.5	17.5	0, 0	0	17.7
41	17.4	17.3	17.4	0, 1	-1	17.6
42	17.4	17.4	17.4	0, 0	0	17.6
B 45	17.5	17.5	17.5	0, 0	0	17.7

A 6719

B	44	16.5	16.4	16.4	1, 0	-1	16.6
	39	16.7	16.9	16.8	1, 1	2	17.0
	38	16.6	16.6	16.6	0, 0	0	16.7
	37	17.8	17.7	17.8	0, 1	-1	18.0
	36	16.6	16.8	16.7	1, 1	2	16.9
	50	16.9	17.0	17.0	1, 0	1	17.2
	49	16.8	16.8	16.8	0, 0	0	17.0
	48	16.7	16.9	16.8	1, 1	2	17.0
?	35	16.6 16.7	17.0	16.8	2, 2, 1	4	17.0
	11	17.5	17.5	17.5	0, 0	0	17.7
	2	16.5	16.4	16.4	1, 0	-1	16.6
	4	16.2	16.3	16.2	0, 1	1	16.2
	10	17.9	17.9	17.9	0, 0	0	18.1
	9	17.3	17.3	17.3	0, 0	0	17.5
B	8	16.5 16.5	(moving) 16.5	16.5	0, 0, 0 X, X, X	4	16.6

Net.		May	May	Mean	Resid	Diff.	6719	25
Sec.	No.	1	2					
B	6	17.5	17.6	17.6	1, 0	1	17.8	
	5	17.6	17.7	17.6	0, 1	1	17.8	
	7	16.8	16.9	16.8	0, 1	1	17.0	
	3	16.6	16.6	16.6	0, 0	0	16.8	
	16	16.7	16.8	16.8	1, 0	1	17.0	
	15	16.8	17.0	16.9	1, 1	2	17.1	
	14	17.9	17.9	17.9	0, 0	0	18.1	
	13	17.8	17.7	17.8	0, 1	-1	18.0	
	19	17.3	17.5	17.4	1, 1	2	17.6	
	20	17.7	17.8	17.8	1, 0	1	18.0	
	21	17.8	17.8	17.8	0, 0	0	18.0	
	22	16.9	17.0	17.0	1, 0	1	17.2	
	23	16.7	16.7	16.7	0, 0	0	16.9	
	24	17.5	17.5	17.5	0, 0	0	17.7	
B	25	17.5	17.4	17.4	1, 0	-1	17.6	

A6719

3	26	17.7	17.8	17.8	1, 0	1	18.0
	27	17.3	17.1	17.2	1, 1	-2	17.4
	28	17.7	17.9	17.8	1, 1	2	18.0
	29	16.7	16.5	16.6	1, 1	-2	16.7
	17	17.4	17.6	17.5	1, 1	2	17.7
	18	17.5	17.3	17.4	1, 1	-2	17.6
	12	17.0	16.8	16.9	1, 1	-2	17.1
=	1	16.2	16.1	16.2	0, 1	-1	16.5
	34	17.3	17.2	17.2	1, 0	-1	17.4
	33	17.2	17.1	17.2	0, 1	-1	17.4
	32	17.4	17.4	17.4	0, 0	0	17.6
	31	17.4	17.5	17.4	0, 1	1	17.6
	30	17.7	17.6	17.6	1, 0	-1	17.8
	52	17.7	17.7	17.7	0, 0	0	17.9
B	51	17.1	17.3	17.2	1, 1	2	17.4
					-21	+43	

Neb		May	May	Mean			6719	27
Sec.	No.	1	2					
B	53	17.5	17.3	17.4	1, 1	-2	17.6	
	54	17.3	^{17.2} 17.4	17.3	0, 1, 1	⁻¹ +1	17.5	
	59	17.8	(none)	17.8	0, 1, 0 x, x, x	-5	18.0	
		17.9	17.8					
	55	17.5	17.6	17.6	1, 0	1	17.8	
	58	17.6	17.7	17.6	0, 1	1	17.8	
	57	17.4	17.3	17.4	0, 1	-1	17.6	
	56	17.7	17.5	17.6	1, 1	-2	17.8	
	60	17.7	17.8	17.8	1, 0	1	18.0	
	61	17.6	17.8	17.7	1, 1	2	17.9	
	62	16.4	16.4	16.4	0, 0	0	16.5	
	63	16.5	16.7	16.6	1, 1	2	16.7	
	65	16.8	17.1	17.0	3, 1	3	17.2	
	64	17.5	17.3	17.4	1, 1	2	17.6	
	66	16.3	16.5	16.4	1, 1	2	16.5	
B	67	17.6	17.1	17.3	3, 1, 0	-5	17.5	
		17.3						

A6719

B	68	17.8	17.7	17.8	0, 1	-1	18.0
	69	16.7	16.8	16.8	1, 0	1	17.0
	70	17.8; 17.8	17.4; 17.6	17.6	2, 3, 2, 0 1, 3, 1	-4	17.8
	79	17.9	17.3	17.6	3, 3, 0	-6	17.8
	80	16.5	(wrong) 16.6	16.8	1, 0, 0 1, 1, 1	5	16.7
	81	16.9	16.6	16.6	3, 0, 1	-3	16.7
	83	17.9	17.9	17.9	0, 0	0	18.1
	82	17.3	17.5	17.4	1, 1	2	17.6
	47	17.8	17.7	17.8	0, 1	-1	18.0
	71	17.4	17.3	17.4	0, 1	-1	17.6
	72	16.6	16.8	16.7	1, 1	2	16.9
	73	17.2	17.3	17.2	0, 1	1	17.4
	74	17.1	17.2	17.2	1, 0	1	17.4
	75	16.3	16.5	16.4	1, 1	2	16.5
B	76	16.7	16.7	16.7	0, 0	0	16.9

Neb.		mag ₁	mag ₂	mean			6719	29
Sec. No.								
B	77	17.0	17.3	17.2	2, 1	3.	17.4	
	78	16.8	16.8	16.8	0, 0	0	17.0	
	84	16.7	16.9	16.8	1, 1	2	17.0	
	85	17.3	17.4	17.4	1, 0	1	17.6	
	86	17.4	17.5	17.4	0, 1	1	stellar (no position measured)	
	87	16.7	16.7	16.7	0, 0	0	16.9	
	88	16.8	17.0	16.9	1, 1	2	17.1	
	89	17.0	17.1	17.0	0, 1	1	17.2	
	90	17.5	17.6	17.6	1, 0	1	17.8	
	91	16.4	16.4	16.4	0, 0	0	16.5	
	92	16.6	16.5	16.6	0, 1	-1	16.7	
	93	17.4	17.5	17.4	0, 1	1	17.6	
	94	17.5	17.6	17.6	1, 0	1	17.8	larger ft.
	95	16.8	17.1	17.0	2, 1	3	17.2	
B	96	17.3	17.4	17.4	1, 0	1	17.6	

A 6719

A	1	17.2	17.2	17.2	0, 0	0	17.4
	11	17.3	17.1	17.2	1, 1	-2	17.4
	10	17.0	17.0	17.0	0, 0	0	17.2
	15	17.7	17.8	17.8	1, 0	1	18.0
	16	17.6	17.7	17.6	0, 1	1	17.8
	23	16.5	16.6	16.6	1, 0	1	16.7
	24	17.1	17.4	17.2	1, 2	3	17.4
	25	17.2	17.4	17.3	1, 1	2	17.5
	17	17.1	17.4	17.2	1, 2	3	17.4
	20	17.4	17.6	17.5	1, 1	2	17.7
	21	17.0	17.1	17.0	0, 1	1	17.2
	22	16.9	16.9	16.9	0, 0	0	17.1
	18	17.0	17.3	17.2	2, 1	3	17.4
	19	16.8	17.0	16.9	1, 1	2	17.1
A	32	17.2	17.3	17.2	0, 1	1	17.4

v -34 +66

Net.	Mag.					6719
Sec. No						
A 33	17.3:	17.4	17.4	$\underline{1}, 0$	1	17.6
A. 55	16.2:	16.5	16.4	$\underline{2}, 1$	3	^{16.4} no position measured
B. 277	17.5	17.4	17.4	$1, 0$	-1	17.6
279	17.4	17.4	17.4	$0, 0$	0	17.6
296	17.2	17.5	17.4	$\underline{2}, 1$	3	17.6
295	16.3	16.3	16.3	$0, 0$	0	16.3
294	17.2	17.0	17.1	$1, \underline{1}$	-2	17.3
293	16.8	16.9	16.8	$0, 1$	1	17.0
292	17.5:	17.8	17.6	$\underline{1}, 2$	3	17.8
286	17.7	17.7	17.7	$0, 0$	0	17.9
285	17.8	17.7	17.8	$0, \underline{1}$	-1	18.0
284	17.5	17.6	17.6	$\underline{1}, 0$	1	17.8
280	16.8	16.7	16.8	$0, \underline{1}$	-1	17.0
281	17.6 17.3	16.9	17.3	$3, \underline{4}, 0$	-7	17.5
B 282	17.1	17.3	17.2	$\underline{1}, 1$	2	17.4

A6719

B	283	17.2	17.2	17.2	0, 0	0		17.4
	287	16.9	16.9	16.9	0, 0	0		17.1
	291	17.0	16.8	16.9	1, 1	-2		17.1
	288	17.2:	17.0:	17.1	1, 1	-2		17.3
	289	16.8	(17.2)	16.8	^{0, 0, 0} 1, 1, 1	4		17.0
		16.8	16.8					
B	290	16.6	16.9	16.8	2, 1	3		17.0
IC	3603	16.4	16.5	16.4	0, 1	1	✓	16.6
I.C.	3621	16.2	16.3	16.2	0, 1	1	✓	16.3
IC	3622	16.8:	16.6	16.7	1, 1	-2	✓	16.9
IC	3601	16.8	16.8	16.8	0, 1	-1	✓	16.9
		defect						
I.C.	3609	16.1:	16.3	16.2	1, 1	2	✓	16.2
IC	3612	15.9	(16.2)	15.9	^{0, 0, 0} 1, 1, 1	5	✓	15.9
		15.9	15.9					
IC	3637	16.0:	16.0	16.0	0, 0	0	✓	15.9
IC	3658	15.8:	15.9	15.8	^{1, 0} 1, 1	1	✓	15.9
IC	803	16.1	16.1	16.1	0, 0	0		16.1

6719

Net.	Mag.					
Sec No.						
A. 34	17.5	17.6	17.6	1, 0	1	17.8
35	16.9 16.8	16.5	16.9	2, 3, 1	-4	16.9
36	17.2	17.0	17.1	1, 1	-2	17.3
(37	17.3 16.7	16.9	17.0	3, 1, 3	-4	17.2 very large
38	16.7	16.7	16.7	0, 0	0	16.9
39	17.0	16.9	17.0	0, 1	-1	17.2
40	17.5	17.5	17.5	0, 0	0	17.7
41	17.1	17.1	17.1	0, 0	0	17.3
42	17.0	17.0	17.0	0, 0	0	17.2
43	17.1	16.9	17.0	1, 1	-2	17.2
44	17.2	17.3	17.2	0, 1	1	17.4
45	17.1	17.0	17.0	1, 0	-1	17.2
46	17.7	17.5	17.6	1, 1	-2	17.8
47	17.0	17.1	17.0	0, 1	1	17.2
A 53	17.2	17.1	17.2	0, 1	-1	17.2

A 6719

34

A	52	16.9:	16.9	16.9	0, 0	0	17.1
	51	17.7:	17.7	17.7	0, 0	0	17.9
	54	16.7:	16.9	16.8	1, 1	2	17.0
	50	16.6:	16.7	16.8 ⁷	1, 0 X, X	1	16.8
	49	17.5:	17.1	17.2	3, 1, 3	-4	fold 17.4
		16.9					
A	48	16.6:	16.6	16.6	0, 0	0	16.7
Seq. lmnos.							
C	59	16.7:	16.8	16.8	1, 0	1	17.6 large streak
	58	17.2	17.4	17.3	1, 1	2	17.5
	57	17.0	17.1	17.0	0, 1	1	17.2
	56	17.3	17.4	17.4	1, 0	1	17.6
Speck superposed.	55	17.9	17.7	17.8	1, 1	-2	18.0
	54	17.4	17.3	17.4	0, 1	-1	17.6
	53	17.0	17.1	17.0	0, 1	1	17.2
	51	17.1	17.2	17.2	1, 0	1	17.4
C	50	16.9	17.0	17.0	1, 0	1	17.2
					-43 + 45		

6719

Neb.	Mag.					
Sec. No						
C 52	17.5	17.4	17.4	1, 0	-1	17.6
31	17.1	17.0	17.0	1, 0	-1	17.2
29	17.6	17.5	17.6	0, 1	-1	17.8
32	16.6	16.5	16.6	0, 1	-1	16.7
33	16.8	16.8	16.8	0, 0	0	17.0
34	17.2	17.3	17.2	0, 1	1	17.4
30	17.4	17.5	17.4	0, 1	1	17.6
28	17.0	16.9	17.0	0, 1	-1	17.2
27	17.1	17.1	17.1	0, 0	0	17.3
26	17.2	17.3	17.2	0, 1	1	17.4
Identity mixed 25	(17.0) 17.6	17.4	17.4 ⁴	2, 1, 0	6	17.6
24	(17.0) 17.2	16.9	17.0	0, 2, 1, 1	A	17.2
23	16.5	16.6	16.6	1, 0	1	16.7
22	17.3	17.5	17.4	1, 1	2	17.6
C 21	17.2	17.3	17.2	0, 1	1	17.4

A 6719

36

C	20	16.8	16.9	16.8	0, 1	1	17.0	
	35	16.5	16.4	16.4	1, 0	-1	16.6	
	36	17.0:	16.8:	16.9:	1, 1	-2	17.1	large.
	37	16.2	16.0	16.1	1, 1	-2	16.1	
	38	17.2	17.2	17.2	0, 0	0	17.4	
	61	16.4	16.4	16.4	0, 0	0	16.5	
	60	17.4	17.6	17.5	1, 1	2	17.7	
	62	16.5	16.4	16.4	1, 0	-1	16.6	
	63	17.3	17.3	17.3	0, 0	0	17.5	
	64	17.5	17.4	17.4	1, 0	-1	17.6	
	65	17.1	17.2	17.2	1, 0	1	17.4	
	66	17.0	16.7	16.8	2, 1	-3	17.0	
	67	17.5	17.4	17.4	1, 0	-1	17.6	
	68	17.1:	17.2:	17.2:	1, 0	1	17.4	large.
C	69	16.8	17.0	16.9	1, 1	2	17.1	

Net	Mag.					6719	
Soc. No.							
C 70	17.7	17.7	17.7	0, 0	0	17.9	star p.
71	17.2	17.0	17.1	1, 1	-2	17.3	
72	16.7	16.6	16.6	1, 0	-1	16.8	
73	17.2	17.4	17.3	1, 1	2	17.5	
49	17.0	17.1	17.0	0, 1	1	17.2	
136	17.4 17.3	17.0	17.2	2, 2, 1	-4	17.4	
137	17.2	17.2	17.2	0, 0	0	17.4	
138	16.9	16.7	16.8	1, 1	-2	17.0	
139	16.2	16.2	16.2	0, 0	0	16.2	
140	17.3	17.4	17.4	1, 0	1	17.6	
C 141	17.0	17.1	17.0	0, 1	1	17.2 no position measured.	
D. 25	16.9	16.7	16.8	1, 1	-2	17.0	
26	17.7	17.5	17.6	1, 1	-2	17.8	
31	17.1	17.1	17.1	0, 0	0	17.3	
D 38	17.1	17.2	17.2	1, 0	1	17.4	

A 6719

dan, ell., sample, den

D.	37	17.5	17.4	17.4	1, 0	-1	17.6
	36	16.7	16.5	16.6	1, 1	-2	16.7
	35	17.3	17.3	17.3	0, 0	0	17.5
	34	17.4	17.7	17.6	2, 1	3	17.8
	40	16.6	16.7	16.6	0, 1	1	16.8
	39	16.8	17.1	17.0	2, 1	3	17.2
	41	16.9	17.2	17.0	1, 2	3	17.2
	44	17.0	17.2	17.1	1, 1	2	17.3
	43	17.3	17.5	17.4	1, 1	2	17.6
	42	16.9	16.9	16.9	0, 0	0	17.1
	45	17.6	17.6	17.6	0, 0	0	17.8 star f.
	46	16.8	17.0	16.9	1, 1	2	17.1
	47	16.5	16.5	16.5	0, 0	0	16.6
	48	17.0	17.2	17.1	1, 1	2	17.3 large
D	49	17.3	17.5	17.4	1, 1	2	17.6

-40 +46

6719

Neb.	Mag.						
Sec. No.							
D 50	17.4	17.3	17.4	0, 1	-1	17.6	
51	16.8	16.6	16.7	1, 1	-2	16.9	
56	17.7?	17.8	17.8	1, 0	1	18.0	
55	16.6	16.7	16.6	0, 1	1	16.8	
54	16.2	16.3	16.2	0, 1	1	16.3	
53	17.2 :	17.3 :	17.2 :	0, 1	1	17.4	Large.
52	16.9	16.7	16.8	1, 1	-2	17.0	
57	16.8	16.8	16.8	0, 0	0	17.0	
58	16.3	16.4	16.4	1, 0	1	16.4	
59	17.6	17.5	17.6	0, 1	-1	17.8	
60	16.5	16.6	16.6	1, 0	1	16.7	
78	17.2	17.2	17.2	0, 0	0	17.4	
77	17.4	17.4	17.4	0, 0	0	17.6	
79	16.8	16.8	16.8	0, 0	0	17.0	
D 80	17.6	17.5	17.6	0, 1	-1	17.8	

A 6719

40

D	81	17.5	17.6	17.6	1, 0	1	17.8
	82	16.7	16.7	16.7	0, 0	0	16.9
	83	17.1	17.3	17.2	1, 1	2	17.4
	84	17.1	17.1	17.1	0, 0	0	17.3
	30	17.3	17.3	17.3	0, 0	0	17.5
	32	16.6	16.7	16.6	0, 1	1	16.8
	33	16.7	16.8	16.8	1, 0	1	17.0
	29	16.6	16.5	16.6	0, 1	-1	16.7
	28	16.9	16.9	16.9	0, 0	0	17.1
	27	17.2	17.3	17.2	0, 1	1	17.4
	23	17.0	17.2	17.1	1, 1	2	17.3
	24	16.8	16.8	16.8	0, 0	0	17.0
	22	16.6	16.6	16.6	0, 0	0	16.7
	21	16.4	16.4	16.4	0, 0	0	16.5
D	20	16.9	16.9	16.9	0, 0	0	17.1

Not. Mag

41

6719

Sec. No.

D 19

16.7

16.7

16.7

0, 0

0

16.9

scratched
superposed

18

17.0

17.1

17.0

0, 1

1

17.2

17

17.0

17.0

17.0

0, 0

0

17.2

16

17.2:

17.3:

17.2:

0, 1

1

17.4

Large

14

17.5:

17.6

17.6

1, 0

1

17.8

"

15

17.0

17.0

17.0

0, 0

0

17.2

13

16.6

16.8

16.7

1, 1

2

16.9

12

17.4

17.1:

17.2

2, 1

-3

17.4

Large
Car

11

17.5

17.2:

17.4

1, 2

-3

17.6

"

10

17.6

17.6

17.6

0, 0

0

17.8

9

16.4:

16.5:

16.4:

0, 1

1

16.6

Large

8

16.9

17.0

17.0

1, 0

1

17.2

7

17.1

17.3

17.2

1, 1

2

17.4

6

16.3

16.4

16.4

1, 0

1

16.4

D 5

16.8

16.8

16.8

0, 0

0

17.0

42

D	4	16.7	16.7	16.7	0, 0	0	16.9
	3	17.6	17.5	17.6	0, 1	-1	17.8
	2	16.8	17.0	16.9	1, 1	2	17.1
D	1	16.2	16.1	16.2	0, 1	-1	16.1
C	165	16.5	16.5	16.5	0, 0	0	16.6
	166	17.1	17.1	17.1	0, 0	0	17.3
	167	17.2	17.1	17.2	0, 1	-1	17.4
	168	16.5	16.5	16.5	0, 0	0	16.6
	169	17.0	17.1	17.0	0, 1	1	17.2
	170	17.3	17.3	17.3	0, 0	0	17.5
	171	16.6	16.4	16.5	1, 1	-2	16.6
	172	16.8 16.5:	17.2: 17.1	16.9 16.8	4, 3, 4, 2 4, 4, 4	4	17.1
	179	16.9	17.0	17.0	1, 0	1	17.2
	178	17.7	17.5	17.6	1, 1	-2	17.8
C	177	17.2	17.3	17.2	0, 1	1	17.4

-21 + 33

6719

Neb.		Mag.						
Se. No.								
IC 3528	15.8	15.8	15.8	0, 0	0	✓	15.8	
IC 3519	16.6	16.8	16.7	1, 1	2	✓	16.9	large.
IC 3505	16.0	16.0	16.0	0, 0	0	✓	15.9	
C 176	17.4	17.2	17.3	1, 1	-2		17.5	
175	16.7	16.9	16.8	1, 1	2		17.0	
174	17.1	17.1	17.1	0, 0	0		17.3	
C 173	16.9	17.0	17.0	1, 0	1		17.2	
D. 61	17.4	17.3	17.4	0, 1	-1		17.6	
62	17.0	17.0	17.0	0, 0	0		17.2	
63	17.5	17.3	17.4	1, 1	-2		17.6	
64	16.9	17.1	17.0	1, 1	2		17.2	
65	16.5	16.4	16.4	1, 0	-1		16.6	
69	16.5	16.6	16.6	1, 0	1		16.7	
70	16.7	16.8	16.8	1, 0	1		17.0	
D 68	17.3	17.2	17.2	1, 0	-1		17.4	

A6719

D	67	17.2	17.2	17.2	0, 0	0	17.4
	71	17.2	17.3	17.3	$\frac{1}{x}, \frac{0}{x}$	1	17.5
	72	17.6	17.6	17.6	0, 0	0	17.8
	76	16.6	16.6	16.6	0, 0	0	16.7
	75	17.3	17.3	17.3	0, 0	0	17.5
	74	17.5	17.6	17.6	$\frac{1}{x}, 0$	1	17.8
	73	17.5	17.4	17.4	1, 0	-1	17.6
	85	16.8	17.0	16.9	$\frac{1}{x}, 1$	2	17.1
	86	17.5	17.4	17.4	1, 0	-1	17.6
	87	17.1	17.3	17.2	$\frac{1}{x}, 1$	2	17.4
	88	16.7	16.9	16.8	$\frac{1}{x}, 1$	2	17.0
	89	17.3	17.3	17.3	0, 0	0	17.5
	90	16.9	17.2	17.0	$\frac{1}{x}, 2$	3	17.2
	91	17.4	17.5	17.4	0, 1	1	17.6
D	92	16.8	16.9	16.8	0, 1	1	17.0

Neb.	Mag.		Mean	Resid.			6719
Sec. No.							
D 93	16.6	16.5	16.6	0, 1	-1		16.7
94	17.1	17.0	17.0	1, 0	-1		17.2
95	17.1	17.0	17.0	1, 0	-1		17.2
D 96	16.2	16.3	16.2	0, 1	1		16.3
I.C. 798	16.0	15.8	15.9	1, 1	-2	✓	15.9
I.C. 3462	16.7	16.4	16.6	1, 2	-3	✓	16.7
I.C. 3435	16.2	16.1	16.2	0, 1	-1	✓	16.1
I.C. 3419	16.8	16.6	16.7	1, 1	-2	✓	16.9
I.C. 3409	16.4	16.4	16.4	0, 0	0	✓	16.5
I.C. 3422	16.4	16.3	16.4	0, 1	-1	✓	16.4
I.C. 3453	16.1 15.3	15.6	15.7 7	4, 1, 4 2, 4	-5	✓	15.7
D 66	16.7	16.8	16.7	0, 1 1, 0	1		16.9
B 241	16.7	16.7	16.7	0, 0	0		16.9
C 1	16.4	16.4	16.4	0, 0	0		16.5
C 2	16.7	16.8	16.8	1, 0	1		17.0

A 6719

C	3	16.6	16.7	16.6	0, 1	1	16.8
	4	16.6	16.6	16.6	0, 0	0	16.7
	5	16.5	16.6	16.6	1, 0	1	16.7
	6	16.4	16.5	16.4	0, 1	1	16.6
	7	16.6	16.7	16.6	0, 1	1	16.8
	8	17.0	17.0	17.0	0, 0	0	17.2
	9	16.8	16.9	16.8	0, 1	1	17.0
	10	17.6	17.6	17.6	0, 0	0	17.8
	11	17.5	17.5	17.5	0, 0	0	17.7
	12	17.4	17.7	17.6	0, 1	1	17.8
	13	16.5	16.6	16.6	1, 0	1	16.7
	14	17.5	17.2	17.4	1, 2	-3	17.6
C	15	17.4	17.5	17.4	0, 1	1	17.6
						-15 +33	
C	180		1	17.6	0, 0		17.8
D	97			16.6	0, 0		16.7

Total number magnitudes estimated 645-

(2-1) gives -310 and +478

Average diff .12 mag.
 " deviation .06 mag. 60%

Syst. diff .03
 " deviation .01

See over for additional I.C. objects, whose
 mags. were measured on the plate A6719.

I.C. 787	15.6	15.7	15.6	0, 1	15.6 ✓
792	15.7	15.9	15.8	1, 1	15.8 ✓
796	14.9	15.1:	15.0:	1, 1	15.0: ✓
3238	15.6:	15.9:	15.8:	2, 1	15.8: ✓
3244	15.7:	15.8:	15.8:	1, 0	15.8: ✓
3292	15.8	15.6	15.7	1, 1	15.7 ✓
3293	16.4	16.4	16.4	0, 0	16.5
3298	16.1	16.0	16.0	1, 0	15.9 ✓
3313	16.4	16.3	16.4	0, 1	16.4
3327	15.9	15.8	15.8	1, 0	15.8 ✓
3340	16.2	16.1	16.2	0, 1	16.1
3368	16.3	16.4	16.4	1, 0	16.4
3369	15.8	15.6	15.7	1, 1	15.7 ✓
3378	16.5	16.1	16.3	2, 2	16.3
3379	16.2	16.3	16.2	0, 1	16.3

6719

49

I.C.

3410	16.4	16.5	16.4	0, 1	16.6 ✓
3433	16.6	16.6	16.6	0, 0	16.7 ✓
3434	16.2	16.0	16.1	1, 1	16.1 ✓
3436	15.6	15.5	15.6	0, 1	15.6 ✓
3471	16.3	16.2	16.2	1, 0	16.3 ✓
3530	15.8;	15.7	15.8;	0, 1	15.8 ✓
3637	15.9	15.7	15.8	1, 1	15.8 ✓
3658	16.0	15.7	15.8	2, 1	15.8 ✓
3721	15.3	15.3	15.3	0, 0	15.3 ✓
3797	15.0	15.0	15.0	0, 0	15.0 ✓
800	15.3	15.3	15.3	0, 0	15.3 ✓
3365	15.6	15.6	15.6	0, 0	15.6 ✓
✓3391	15.1	15.2	15.2	1, 0	15.2 ✓
✓3392	14.4;	14.5;	14.4;	0, 1	14.4; ✓
33448	16.4;	16.4	16.4	0, 0	16.5 ✓

3473	16.2:	16.2	16.2	0,0	16.2 ✓
3484	15.7	15.5	15.6	1,1	15.6 ✓
3522	16.3	16.2:	16.2	1,0	16.3 ✓
3534	16.1	15.9	16.0	1,1	15.9 ✓
3615	15.8	15.6	15.7	1,1	15.7 ✓
3806	15.0	15.1	15.0	0,1	15.0 ✓
3699	16.5	16.5	16.5	0,0	16.5 (6) ✓
3700	17.1	17.1	17.1	0,0	17.3 ✓
3705	17.0	17.1	17.0	0,1	17.2 ✓
3738	17.0	17.0	17.0	0,0	17.2 ✓
3745	15.6	15.6	15.6	0,0	15.6 ✓
3784	16.4	16.3	16.4	0,1	16. ⁴ / ₅ ✓
3788	16.3	16.2	16.2	1,0	16.2 (3) ✓
3794	16.5	16.6	16.6	1,0	16.7 ✓

A 6718

51

			dif	mean	resid.
A 80	16.6	16.7	00.1	16.6	0, 1
78	17.1	16.9	-00.2	17.0	1, 1
79	17.2	17.4	00.2	17.3	1, 1
76	17.1	16.8	-00.3	17.0	
77	17.7	17.4	-00.3	17.6	
75	17.6	17.6	00.0	17.6	
74	17.0	17.1	00.1	17.0	
60	17.4	17.4	00.0	17.4	
59	17.1	16.9	-00.2	17.0	
33	17.5	17.7	00.2	17.6	
32	17.5	17.3	-00.2	17.4	
31	16.5	16.6	00.1	16.6	
30	17.7	17.6	-00.1	17.6	
34	17.6	17.5	-00.1	17.6	
35	16.4	16.6	+00.2	16.5	

See pg. 88

Sequence 80 a
star 11 f remeasured
and 11 c added.

Estimates from
this sequence repeated.

A	36	16.9	17.2	+00.3	17.0	1, 2
	49	16.7	17.0	+00.3	16.8	
	50	17.2	17.1	-00.1	17.2	
	51	17.9	17.9	00.0	17.9	
	48	17.7	17.5	-00.2	17.6	
	52	17.9	18.0	00.1	18.0	
	53	17.8	17.9	00.1	17.8	
stellar?	54	17.4	17.2	-00.2	17.3	
	55	17.8	17.9	+00.1	17.8	
	56	17.6	17.5	-00.1	17.6	
	57	17.8	17.7	-00.1	17.8	
	58	17.7	17.7	00.0	17.7	
	66	17.1	17.0	-00.1	17.0	
	65	17.6	17.4	-00.2	17.5	
A	64	17.3	17.3	00.0	17.3	

See pg. 89

6718

53

A 63	17.8	17.5	-00.3	17.6	2, 1
62	16.2	16.2	00.0	16.2	0, 0
61	18.0	17.8	-00.2	17.9	1, 1
44	17.6	17.3	-00.3	17.4	2, 1
45	17.5	17.1	-00.4		
46	16.8	17.1	+00.3	17.0	2, 1
47	16.6	17.0	+00.4		
67	17.5	17.6	+00.1	17.6	1, 0
68	17.7	17.6	-00.1	17.6	1, 0
69	17.6	17.3	-00.3	17.4	2, 1
70	17.9	17.8	-00.1	17.8	1, 0
71	16.5	16.7	2	16.6	1, 1
144	16.4	16.5	1	16.4	0, 1
72	16.2	16.4	2	16.3	1, 1
A 73	17.5	17.4	-1	17.4	1, 0

See pg 90

A	81	17.6	17.8	2	17.7	$\perp, 1$
	82	17.9	18.0	1	18.0	$\perp, 0$
	83	17.2	17.1	-1	17.2	$0, \perp$
	84	16.4	16.7	3	16.6	$\underline{2}, 1$
	85	17.0	17.2	2	17.1	$\perp, 1$
	86	17.6	17.5	-1	17.6	$0, \perp$
	87	17.2:	17.2	0	17.2	$0, 0$
	142	17.4	17.4	0	17.4	$0, 0$
	98	17.5:	17.9	4		
	97	17.0:	17.1	1	17.0	$0, 1$
	88	16.8	17.1	3	17.0	$\underline{2}, 1$
	89	17.5:	17.3	-2	17.4	$1, \perp$
	90	17.8	17.4	-4		
	91	16.4	16.5	1	16.4	$0, 1$
A	92	17.4:	17.5	1	17.4	$0, 1$

See pg 91

6718

55

A 93 16.8: 16.9 1 16.8 0, 1

94 17.2: 17.3: 1 17.2 0, 1

95 17.2: 17.2: 1 17.2 1, 0

96 17.1: 17.3: 2 17.2 1, 1

143 17.0: 17.8 8

100 17.2 17.6 4

A 101 17.4 17.8 17.2 -6 17.5 3, 3, 1

17.6

102 17.5: 17.9 17.3: -6 17.6: 3, 1, 3

17.7

103 16.1 16.4 16.3 -1 16.4 0, 1

114 16.8 16.9 16.9 0 16.9 0, 0

115 16.3 16.5 16.5 0 16.5 0, 0

116 16.4 16.6 16.4 -2 16.5 1, 1

113 17.7 17.9 17.7 -2 17.8 1, 1

111 16.9 17.0 17.0 0 17.0 0, 0

A 104 17.2 17.1 17.1 0 17.1 0, 0

large and
spread out,
in corner
>

See page 92

large.

+8 -0 9

A	105	17.7	17.9 17.6	17.4	-5	17.6	3, 0, 2
	99	17.6	17.5	17.7	2	17.6	1, 1
	117	17.2	17.2 17.0	16.6	-6	16.9	3, 1, 3
	118	17.6	17.6	17.2	-4	17.4	2, 2
	119	16.9	16.8	16.6	-2	16.7	1, 1
	120	17.4	17.3 17.0	16.8	-5	17.0	3, 0, 2
	121	17.5	17.4 17.2	16.9	-5	17.2	2, 0, 3
	112	17.4	17.4	17.0	-4	17.2	2, 2
	110	17.6	17.7 17.5	17.2	-5	17.5	2, 0, 3
	123	17.5	17.8 17.7	17.7 17.6	-1.1	17.7	1, 0, 1
	108	17.7	17.3	17.3	0	17.3	0, 0
	109	17.5	17.4	17.2	-2	17.3	1, 1
	124	17.7	17.4 17.1	16.7	-7	17.1	3, 0, 4
	125	17.6	17.5 17.3	17.0	-5	17.3	2, 0, 3
A	126	17.5	17.3	17.1	-2	17.2	1, 1

+26 -1 15

6718

57

A	127	16.9	16.8	16.5	-3	16.6	2, 1	
	128	16.7	16.9	16.6	-3	16.8	1, 2	
	129	17.4	17.2	17.2	0	17.2	0, 0	
	130	17.4	17.3:	16.8:	-5	17.1:	2, 0, 3	
			17.1:					
	131	17.0	17.2:	16.5:	-7	16.9:	3, 0, 4	
			16.9					
	135	16.9	17.2:	16.5:	-7	16.8:	4, 1, 3	
			16.7					
	134	17.8:	17.8:	17.7:	-1	17.8	0, 1	<u>no card</u> large.
				omit - too uncertain.				
	133	17.6	17.5:	17.1	-4	17.3:	2, 2	
	132	17.7	17.6:	17.3	-3	17.4	2, 1	
	107	17.7:	17.7:	17.4	-3	17.6	1, 2	large.
A	106	17.6	17.0	16.9	-1	17.0	0, 1	
B	134	16.7	16.8	16.9	1	16.8	0, 1	
	133	17.7	17.7	17.8	1	17.8	1, 0	
	135	16.8	16.9	16.9	0	16.9	0, 0	
B	215	17.6:	17.6:	17.0:	-6	17.4:	2, 4, 2, 1	large
			17.6:	17.3			+19 -1 14	

B	216	17.5	17.0	17.0	0	17.0	0, 0
	214	16.1	16.1	16.4	3	16.2	1, 2
	213	16.9	17.0	17.2	2	17.1	1, 1
	212	16.9	17.0	17.3	3	17.2	2, 1
	266	17.6	17.4	17.3	-1	17.4	0, 1
	211	17.7	17.6	17.4	-2	17.5	1, 1
	209	17.3	17.5	17.3	-2	17.4	1, 1
	210	16.2	16.2	16.4	2	16.3	1, 1
	220	16.6	16.8	16.9	1	16.8	0, 1
	221	17.5	17.2	17.0	-2	17.1	1, 1
	218	17.7	17.7	17.8	1	17.8	1, 0
	219	17.6	17.8	17.7	-1	17.8	0, 1
stellar?	217	16.8	17.1	17.1	0	17.1	0, 0
	267	17.0	17.4	17.5	1	17.4	0, 1
B	222	16.9	17.0	17.0	0	17.0	0, 0

+3 -6 15

6718

59

B 223	17.8	18.0	17.9	-1	18.0	0, 1
224	16.7	16.7	16.7	0	16.7	0, 0
(defect) 225	17.1	17.1	17.1	0	17.1	0, 0
226	16.7	16.6	16.9	3	16.8	2, 1
233	17.3	17.7	17.6	-1	17.6	1, 0
227	16.8	17.1	16.8	-3	17.0	1, 2
228	17.7	17.7	17.6	-1	17.6	1, 0
232	17.8	17.7	17.7	0	17.7	0, 0
231	17.2	17.4	17.5	1	17.4	0, 1
229	17.7	17.9	17.9	0	17.9	0, 0
230	18.0	18.0	18.0	0	18.0	0, 0
234	17.7	17.7	17.6	-1	17.6	1, 0
235	17.0	17.2	17.1	-1	17.2	0, 1
236	17.6	17.8	17.8	0	17.8	0, 0
B 237	17.8	17.7	17.5	-2	17.6	1, 1, 1, 1
		17.5	17.7			+5 -2 15

B	238	17.2	17.3	17.3	0	17.3	0, 0, 0
			17.3	17.6			
	239	16.3	16.5	16.5	0	16.5	0, 0, 1, 0
			16.4	16.5			
	241	17.4	17.1:	17.3	2	17.2	1, 1, 0, 1
			17.2	17.3			
	244	17.0	17.2	17.1	-1	17.2	0, 1
			17.2	17.3			
	245	17.7	17.3:	17.4	1	17.4	1, 0
Identity	246	16.6	17.4:	17.0	-4	17.2	2, 2
	247	15.9	16.0	16.4	4	16.2	2, 2
	248	17.0	17.4	17.2	-2	17.3	1, 1
B	249	17.5	17.7	17.7	0	17.7	0, 0
(Sequence 80d)							
A	17	17.7	17.7	0	17.7	0, 0	
	16	17.4	17.5	1	17.4	0, 1	
	12	17.5	17.6	1	17.6	1, 0	
	11	16.6	16.6	0	16.6	0, 0	
	14	17.4	17.7	3	17.6	2, 1	
A	13	17.4	17.6	2	17.5	1, 1	
					+3 - 8	15	

6718

61

A	10	17.5	17.6	1	17.6	$\perp, 0$
138		17.9	18.0	1	18.0	$\perp, 0$
7		17.0	16.9	-1	17.0	$0, \perp$
6		16.7	16.8	1	16.8	$\perp, 0$
137		17.7	17.8	1	17.8	$\perp, 0$
1		16.8	16.6	-2	16.7	$1, \perp$
2		17.1	17.0	-1	17.0	$1, 0$
3		17.2	17.2	0	17.2	$0, 0$
136		17.2	17.0:	-2	17.1	$1, \perp$
4		17.4	17.4:	0	17.4	$0, 0$
5		17.7	17.7	0	17.7	$0, 0$
8		16.9	17.0	1	17.0	$\perp, 0$
defect?	9	17.3:	17.5:	2	17.4:	$\perp, 1$
15		17.6	17.5	-1	17.6	$0, \perp$
A	19	17.0	17.0	0	17.0	$0, 0$
					+3 -6	15

large

A	18	17.8	17.6	-2	17.7	1, 1
	140	17.9	17.9	0	17.9	0, 0
	139	17.9	17.8	-1	17.8	1, 0
	23	17.2	17.2	0	17.2	0, 0
	22	17.5	17.4	-1	17.4	1, 0
	21	16.9	16.7	-2	16.8	1, 1
	20	17.0	16.8	-2	16.9	1, 1
	25	17.9	17.9	0	17.9	0, 0
	26	17.4	17.2	-2	17.3	1, 1
	27	17.0	16.8	-2	16.9	1, 1
	28	16.5:	16.5:	0	16.5:	0, 0
	29	17.5	17.8:	3	17.6	1, 2
	37	16.9	16.9	0	16.9	0, 0
	38	17.1	17.2	1	17.2	1, 0
A	39	17.9	17.9	0	17.9	0, 0

+7 -2 15

very
irregular

larger

6718

63

A	40	17.5	17.8	3	17.6	1, 2	
	141	17.0	17.1	0	17.1	0, 0	
	24	17.0	17.0	0	17.0	0, 0	
	41	17.6	17.4	-2	17.5	1, 1	
	42	17.2	17.1	-1	17.2	0, 1	
rufted spot on film?	43	17.5:	17.5:	0	17.5:	0, 0	large
A	44	17.2:	17.1	-1	17.2:	0, 1, 1, 1	large
B		17.3:	17.11				Measures from pg. 90
B	32	16.9	16.8	-1	16.8	1, 0	no card - position never measured - card made out.
	31	16.3	16.4	1	16.4	1, 0	
	27	17.8	17.4	-4	17.8 17.6	0, 4, 0, 2 2, 2	
		17.8	18.0				
	28	17.4	17.0	-4	17.3 17.2	1, 3, 0, 2 1, 1	ft. apical with star sup. preceding.
		17.3	17.5				
	29	16.5	16.6	1	16.5 16.6	0, 1, 0, 0 1, 1	
		16.5	16.5				
	33	17.2	16.9	-3	17.2 17.0	0, 3, 0, 4 2, 1	
		17.2	17.6				
	34	16.7	16.7	0	16.7	0, 0	
B	270	17.3	17.6	3	17.4	1, 2	
						-3 +3	15

B	62	17.7	17.7	0	17.7	0, 0
	63	17.8	17.6	-2	17.7	1, 1
	64	17.0	17.0	0	17.0	0, 0
	61	17.9	17.8	-1	17.8	1, 0
defect?	66	17.7	18.0	+3	17.8	1, 2
Sequence 808.						
	118	17.2	17.2	0	17.2	0, 0
	119	17.0	16.9	-1	17.0	0, 1
	122	16.7	16.8	1	16.8	1, 0
I.C. 3147						
	121	17.3	17.3	0	17.3	0, 0
	120	17.4	17.4	0	17.4	0, 0
	265	17.8	18.0	2	17.9	1, 1
defect?	117	17.6	17.8	2	17.7	1, 1
	111	16.8	17.0	2	16.9	1, 1
	110	17.7	17.8	1	17.8	1, 0
B	109	17.5	17.4	-1	17.4	1, 0

+2 -6 15

Large

6718

65

B 113	17.7	17.4	-6	16.8	0, 0
dark star	16.8	16.8			
112	17.4	17.4	0	17.4	0, 0
114	17.9	17.8	-1	17.8	1, 0
115	17.9	17.7	-2	17.8	1, 1
116	17.8	17.6	-2	17.7	1, 1
108	17.7	17.8	1	17.8	1, 0
107	17.2	17.1	-1	17.2	0, 1
106	17.4	17.5	1	17.4	0, 1
105	17.8	17.6	-2	17.7	1, 1
104	17.6	17.5	-1	17.6	0, 1
103	17.6	17.6	0	17.6	0, 0
102	16.7	16.9	2	16.8	1, 1
101	17.3	17.2	-1	17.2	1, 0
100	17.1	17.0	-1	17.0	1, 0
B 99	17.4	17.3	-1	17.4	0, 1
				+6 -2	15

or star
and net?

B	98	17.8	17.9	1	17.8	0, 1	
	97	17.7	17.8	1	17.8	1, 0	
	91	17.5	17.6	1	17.6	1, 0	
	90	17.6:	17.7:	1	17.6:	0, 1	large
	86	17.7	17.7	0	17.7	0, 0	
	85	17.8	17.7	-1	17.8	0, 1	
	83	17.4	17.4	0	17.4	0, 0	
	84	17.6	17.6	0	17.6	0, 0	
	82	17.9	17.9	0	17.9	0, 0	
	96	16.9	17.0	1	17.0	1, 0	
	260	18.0	18.0	0	18.0	0, 0	
	124	17.5	17.5	0	17.5	0, 0	
	123	17.9	17.8	-1	17.8	1, 0	
	259	17.7	17.8	1	17.8	1, 0	
B	262	17.9	17.7	-2	17.8	1, 1	
						+2 -4 15	

6718

67

B 261 17.9 17.7 -2 17.8 1, \perp 138 18.0 17.7 -3 17.8 2, \perp 141 17.6 17.5 -1 17.6 0, \perp 142 17.7 17.8 1 17.8 \perp , 0

143 17.9: 17.9 0 17.9 0, 0

large

144 17.1 17.0 -1 17.0 1, 0

145 17.4 17.6 2 17.5 \perp , 1146 16.7 16.8 1 16.8 \perp , 0

207 17.5 17.4 -1 17.4 1, 0

speck
on top
of image 206 17.3 17.3: 0 17.3 0, 0

208 16.3 16.2 -1 16.2 1, 0

139 17.9 17.9 0 17.9 0, 0

140 17.0 16.9 -1 17.0 0, \perp

125 17.5 17.5 0 17.5 0, 0

B 263 17.7 17.8 1 17.8 \perp , 0

+4 -4

15-

B	132	17.1:	17.4	3	17.2	1, 2	very large defect?
	136	17.3:	17.8:	5	17.6:	3, 1, 2	large
		17.7:					
	137	17.0	17.1	1	17.0	0, 1	
	131	17.4	17.2	-2	17.3	1, 1	
	130	17.5	17.4	-1	17.4	1, 0	
	129	17.7	17.6	-1	17.6	1, 0	
	128	17.1	17.1	0	17.1	0, 0	
	127	17.6	17.5	-1	17.6	0, 1	
	126	17.5	17.4	-1	17.4	1, 0	
	264	17.7	17.7	0	17.7	0, 0	
Sequence 800	147	17.4	17.2	-2	17.3	1, 1	
	148	17.7:	17.5:	-2	17.6:	1, 1	large
	149	17.6:	17.7:	1	17.6:	0, 1	"
B	150	17.6:	17.6:	0	17.6:	0, 0	"
C	63	17.5	17.5	0	17.5	0, 0	
					+6 -4	15	

6718

69

C 64	17.4	17.6	2	17.5	1, 1
62	17.9	18.0	1	18.0	1, 0
61	18.0	17.9	-1	18.0	0, 1
60	17.5	17.8	3	17.6	1, 2
65	17.7	17.8	1	17.8	1, 0
66	17.8	18.0	2	17.9	1, 1
star? 114	17.6	17.6	0	17.6	0, 0

69 on the crack.

67	16.8	16.6:	-2	16.7	1, 1
68	17.6	17.4	-2	17.5	1, 1
80	16.9:	16.5:	-4	16.7:	2, 2
116	17.3	17.1	-2	17.2	1, 1
79	16.3	16.1	-2	16.2	1, 1
77	17.1	17.0	-1	17.0	1, 0

Large in corner

C 75	17.0	17.1	1	17.0	0, 1
					+7 -5 14

70

C 115 17.2 17.6 4 17.4 $\underline{2}, 2$

defect in glass
just above.

117 17.1 17.4 3 17.2 $\underline{1}, 2$

78 17.4 17.5 1 17.4 0, 1

74 17.3 17.6 3 17.4 $\underline{1}, 2$

73 17.6 17.7 1 17.6 0, 1

70 16.5 16.5 0 16.5 0, 0

71 16.7 16.6 -1 16.6 1, 0

72 16.6 16.4 -2 16.5 1, $\underline{1}$

122 17.1 17.1 0 17.1 0, 0

C 76 16.6 16.6 0 16.6 0, 0

B 151 17.6 17.6 0 17.6 0, 0

large

152 16.8 17.0 2 16.9 $\underline{1}, 1$

153 16.7 17.1 4 16.9 $\underline{2}, 2$

154 17.5 17.7 2 17.6 $\underline{1}, 1$

B 272 17.3 17.8 5 17.5 $\underline{2}, 0, 3$

17.5 +2 -10 15

6718

71

B 271	17.4	17.9	5	17.7	3, 0, 2
	17.7				
155	17.3	17.4	1	17.4	1, 0
156	17.4	17.3	-1	17.4	0, 1
157	17.7	17.9	2	17.8	1, 1
158	16.6	16.8	2	16.7	1, 1
269	17.8	17.9	1	17.8	0, 1
159	17.5	17.5	0	17.5	0, 0
160	17.0	17.1	1	17.0	0, 1
177	17.0	17.0	0	17.0	0, 0
176	17.7	17.8	1	17.8	1, 0
174	17.6	17.7	1	17.6	0, 1
175	17.7	17.7	0	17.7	0, 0
189	17.6	17.9	3	17.8	2, 1
190	17.5	17.7	2	17.6	1, 1
B 187	17.6	17.8	2	17.7	1, 1

to -11 15

Carge

72

B	186	17.8	17.8	0	17.8	0, 0
defect?	185	17.6	17.6	0	17.6	0, 0
	184	16.6	16.7	1	16.6	0, 1
	183	17.7	17.7	0	17.7	0, 0
	182	17.4	17.4	0	17.4	0, 0
	242	17.2	17.3	1	17.2	0, 1
	241	17.2	17.3	1	17.2	0, 1
	237	17.5	17.7	2	17.6	1, 1
	238	17.3	17.6	3	17.4	1, 2
	239	16.4	16.5	1	16.4	0, 1
	268	17.7	17.8	1	17.8	1, 0
	240	16.2	16.3	1	16.2	0, 1
	197	17.1	17.1	0	17.1	0, 0
	196	16.7	16.8	1	16.8	1, 0
B	195	16.1	16.2	1	16.2	1, 0
					+0 -3	11

Measures transferred
to ppgs. 59, 60.

6718

73

B 188	17.4	17.7	3	17.6	<u>2,1</u>	
193	17.8	17.8	0	17.8	0,0	
194	16.8	16.9	1	16.8	0,1	
Identity 198	18.0	17.6	4	17.8	<u>2,2</u>	
199	16.6	16.6	0	16.6	0,0	
200	17.2	17.3	1	17.2	0,1	
201	16.8	16.8	0	16.8	0,0	
202	16.6	16.6	0	16.6	0,0	
203	17.4	17.4	0	17.4	0,0	
204	17.1	17.2	1	17.2	<u>1,0</u>	
205	17.9	18.0	1	18.0	<u>1,0</u>	
192	17.4	17.5	1	17.4	0,1	
191	17.6	17.8	2	17.7	<u>1,1</u>	
93	17.9	18.0	1	18.0	<u>1,0</u>	
B 94	16.9	16.9	0	16.9	0,0	
					+2 -6	15-

B	95	17.5	17.6	1	17.6	1, 0
C	58	16.6	16.6	0	16.6	0, 0
	59	16.7	16.6	-1	16.6	1, 0
	57	16.9	16.8	-1	16.8	1, 0
	56	17.6	17.5	-1	17.6	0, 1
	52	17.3	17.3	0	17.3	0, 0
	113	17.4	17.3	-1	17.4	0, 1
	51	16.5	16.4	-1	16.4	1, 0
	55	17.4	17.4	0	17.4	0, 0
	54	17.5	17.4	-1	17.4	1, 0
	53	17.8	17.9	1	17.8	0, 1
	49	16.9	16.9	0	16.9	0, 0
	50	16.9	16.8	-1	16.8	1, 0
C	112	17.4	17.5	1	17.4	0, 1
C	48	16.4	16.5	1	16.4	0, 1
					+5 - 1	15

6718

C 47 17.9 17.8 -1 17.8 1, 0

46 17.1 17.2 1 17.2 1, 0

45 16.9 17.0 1 17.0 1, 0

C 44 17.5 17.6 1 17.6 1, 0

Sequence 802

B 42 17.5 17.3 -2 17.4 1, 1

43 17.7 17.7 0 17.7 0, 0

44 17.8 17.7 -1 17.8 0, 1

20 17.6 17.4 -2 17.5 1, 1

19 17.2 17.1 -1 17.2 0, 1

scratch
superposed 18 18.0 18.0 0 18.0 0, 0

17 17.0 17.0 0 17.0 0, 0

254 17.3 17.4 1 17.4 1, 0

8 17.0 17.1 1 17.0 0, 1

7 18.0 18.0 0 18.0 0, 0

B 5 17.9 17.8 -1 17.8 1, 0

+4 -4 15

scratch
on top.

B	6	17.2	17.2	0	17.2	0, 0
	16	17.7	17.8	1	17.8	L, 0
	9	18.0	18.1	1	18.0	0, 1
	4	16.9	16.6	-3	16.8	1, 2
	3	16.9	16.8	-1	16.8	1, 0
	15	17.2	17.2	0	17.2	0, 0
	14	17.7	17.7	0	17.7	0, 0
	252	17.8	18.0	2	17.9	L, 1
	251	17.7	17.8	1	17.8	L, 0
	10	17.1	17.0	-1	17.0	1, 0
	13	17.0	17.2	2	17.1	L, 1
	12	16.9	16.9	0	16.9	0, 0
	11	17.2:	17.4:	2	17.3:	L, 1
	253	17.7	17.9	2	17.8	L, 1
B	2	17.9	18.0	1	18.0	L, 0

+2 -7 15

6718

77

B 1 17.1 17.2 1 17.2 $\perp, 0$

45 16.7 16.7 0 16.7 0, 0

47 17.6 17.6 0 17.6 0, 0

50 16.4 16.5 1 16.4 0, 1

48 16.0 16.1 1 16.0 0, 1

49 17.7 17.6 -1 17.6 1, 0

255 17.8 17.7 -1 17.8 0, \perp 258 17.8 17.7 -1 17.8 0, \perp

24 18.0 18.1 1 18.0 0, 1

23 17.4 17.5 1 17.4 0, 1

25 17.5 17.6 1 17.6 $\perp, 0$ 22 17.7 17.8 1 17.8 $\perp, 0$ 21 17.9 18.0 1 18.0 $\perp, 0$

26 17.8 17.9 1 17.8 0, 1

B 27 18.0 17.8 -2 17.9 1, \perp

+2 -4 15

B	28	17.3	17.5	2	17.4	1, 1	} Measures transferred to pg. 63
	29	16.5	16.5	0	16.5	0, 0	
	33	17.2	17.6	4	17.4	2, 2	

30 17.9 : 17.5 : -4 17.7 : 2, 2

large

35 17.8 17.8 0 17.8 0, 0

36 17.8 17.8 0 17.8 0, 0

53 17.3 17.2 -1 17.2 1, 0

54 16.9 16.9 0 16.9 0, 0

55 18.1 17.9 -2 18.0 1, 1

56 17.7 17.7 0 17.7 0, 0

57 16.2 16.2 0 16.2 0, 0

58 18.1 18.1 0 18.1 0, 0

59 18.0 18.0 0 18.0 0, 0

60 18.0 : 18.0 0 18.0 0, 0

large

B 52 18.0 17.9 -1 18.0 0, 1

+4 -0 12

6718

79

B 51 17.8 17.9 1 17.8 0, 1

65 16.8 16.9 1 16.8 0, 1

67 17.4 17.3 -1 17.4 0, 1

68 17.8 17.8 0 17.8 0, 0

46 17.7 17.4 -3 17.6 1, 2

41 18.0 17.8 -2 17.9 1, 1

40 17.8 17.7 -1 17.8 0, 1

69 17.9 17.9 0 17.9 0, 0

256 18.1 18.0 -1 18.0 1, 0

257 17.8 17.6 2 17.7 1, 1

70 18.0 17.9 -1 18.0 0, 1

74 18.1 — not a nebula — —

89 18.2 18.1 -1 18.2 0, 1

88 16.9 17.1 2 17.0 1, 1

B 87 16.6 16.7 1 16.6 0, 1

+4 -1 14

B	75	16.8	16.8	0	16.8	0, 0	
	76	18.2	18.0:	-2	18.1	1, 1	large + ft.
	81	18.0	17.8	-2	17.9	1, 1	
double?	80	17.0	17.1	1	17.0	0, 1	
	77	17.9	17.8	-1	17.8	1, 0	
	73	18.2	18.0	-2	18.1	1, 1	
	72	17.2	17.2	0	17.2	0, 0	
	71	17.2	17.3	1	17.2	0, 1	
too faint to tell whether star or neb.	39	18.1	omit				
	38	18.0	18.0	0	18.0	0, 0	
B	37	17.2	17.1	-1	17.2	0, 1	
C small scratch on top.	36	17.9	18.0	1	18.0	1, 0	
	37	17.5	17.5	0	17.5	0, 0	
star and nebula type.	38	^(neb.) 18.0	17.9	-1	18.0	0, 1	
C	109	18.0	18.1	1	18.0	0, 1	
					+4 -1	14	

6718

81

C 110 17.5 17.5 0 17.5 0, 0

35 17.7 17.6 -1 17.6 1, 0

107 18.0 17.7: -3 17.8 2, 1

large

106 17.9 18.0 1 18.0 1, 0

27 18.0 17.6 -4 17.8 2, 2

26 17.2 17.6 4 17.4 2, 2

108 17.9 17.9 0 17.9 0, 0

24 17.3 17.2 -1 17.2 1, 0

92 18.0 18.1 1 18.0 0, 1

23 17.3 17.6 3 17.4 1, 2

22 17.1 17.5 4 17.3 2, 2

21 17.6 17.8 2 17.7 1, 1

20 17.9 18.1 2 18.0 1, 1

19 17.3 17.6 3 17.4 1, 2

C 18 16.9 16.9 0 16.9 0, 0

+4 -9 14

C 90 17.8 17.9 1 17.8 0, 1
Sequence 80 f.

14 17.5 17.5 0 17.5 0, 0

91 18.0 17.7 -3 17.8 2, 1

17 17.2 17.4 2 17.3 1, 1

89 on the crack.

11 17.3 17.2 -1 17.2 1, 0

10 16.7 16.8 1 16.8 1, 0

88 17.8 17.6 -2 17.7 1, 1

16 17.1 17.3 2 17.2 1, 1

15 17.8 17.8 0 17.8 0, 0

9 16.2 16.2 0 16.2 0, 0

87 17.2 17.4 2 17.3 1, 1

86 17.9 17.7 -2 17.8 1, 1

82 17.9 17.9 0 17.9 0, 0

C 1 16.5 16.7 2 16.6 1, 1
+4 -5 14

6718

83

C	2	16.5	16.4	-1	16.4	1, 0
	3	17.1	16.9	-2	17.0	1, 1
	83	17.8	17.7:	-1	17.8	0, 1
	4	16.4	16.3	-1	16.4	0, 1
	84	17.9:	17.8:	-1	17.8:	1, 0
	85	17.6	17.8:	2	17.7	1, 1
	5	17.6	17.6	0	17.6	0, 0
	6	16.6	16.8	2	16.7	1, 1
	7	16.5	16.6	1	16.6	1, 0
	93	17.2	17.3	1	17.2	0, 1
	8	16.7	16.7	0	16.7	0, 0
	94	17.5	17.3:	-2	17.4	1, 1
	95	17.7	18.0	3	17.8	1, 2
	96	17.3	17.3	0	17.3	0, 0
C	97	17.6	17.4	-2	17.5	1, 1
					+4 -4	15

large

C 13 16.5 16.4 -1 16.4 1, 0

119 17.7 17.9 2 17.8 1, 1

100 16.3 16.3 0 16.3 0, 0

25 17.9 17.9 0 17.9 0, 0

99 18.0 18.0 0 18.0 0, 0

98 17.8 17.9 1 17.8 0, 1

12 16.4 16.8 4 16.6 2, 2

120 17.7 17.8 1 17.8 1, 0

121 17.6 17.7 1 17.6 0, 1

101 17.9 17.9 0 17.9 0, 0

102 17.6 17.8 2 17.7 1, 1

? 103 17.8 — omit —

missed by crash

105 17.8 18.0 2 17.9 1, 1

28 16.9 17.0 1 17.0 1, 0

C 29 17.8 17.9 1 17.8 0, 1

+1 -7 14

6718

85

C 33 17.7 17.7 0 17.7 0.0

34 ~~17.0~~ on the crack.

32 17.0 16.9 -1 17.0 0, 1

30 17.5 17.8 3 17.6 1, 2

31 17.6: 17.8: 2 17.7: 1, 1

large.

104 17.7 17.8 1 17.8 1, 0

39 17.8 17.7 -1 17.8 0, 1

40 17.5 17.5 0 17.5 0, 0

43 18.0 17.8 -2 17.9 1, 1

42 16.7 16.5 -2 16.6 1, 1

41 17.4: 17.2 -2 17.3 1, 1

111 17.2 17.0 -2 17.1 1, 1

Sequence 80c

118 17.6 17.8 2 17.7 1, 1

C 81 16.5: 16.4: -1 16.4: 1, 0

corner

B 161 17.4 17.6 2 17.5 1, 1

+5 -5 14

B 162 17.6 17.6 0 17.6 0, 0

171 16.6 16.7 1 16.6 0, 1

170 17.3 17.3 0 17.3 0, 0

172 17.1 17.4 3 17.2 1, 2

173 17.4 17.6 2 17.5 1, 1

169 17.5 17.7 2 17.6 1, 1

168 17.3 17.3 0 17.3 0, 0

167 17.4: 17.5: 1 17.4: 0, 1

166 17.0 16.9 -1 17.0 0, 1

165 16.8 16.7 -1 16.8 0, 1

164 17.2 17.1 -1 17.2 0, 1

163 17.4: 17.5: 1 17.4: 0, 1

Sequence 80

243 16.7 16.8 1 16.8 1, 0

178 16.3 16.3 0 16.3 0, 0

B 179 16.4 16.5 1 16.4 0, 1

+0 -4 15

6718

87

B 180	16.2	16.1	-1	16.2	1, 0
-------	------	------	----	------	------

<u>181</u>	16.8	16.8	0	16.8	0, 0
------------	------	------	---	------	------

Seq. 80 c

78	16.9	17.1	2	17.0	1, 1
----	------	------	---	------	------

<u>79</u>	17.6	17.7	1	17.6	0, 1
-----------	------	------	---	------	------

Seq. 80 a

A 140	17.8	17.9	1	17.8	0, 1
-------	------	------	---	------	------

141	16.6	16.8	2	16.7	1, 1
-----	------	------	---	------	------

142	16.9	17.1	2	17.0	1, 1
-----	------	------	---	------	------

143	17.4	17.7	3	17.6	2, 1
-----	------	------	---	------	------

144	17.6	17.9	3	17.8	2, 1
-----	------	------	---	------	------

145	17.7	17.7	0	17.7	0, 0
-----	------	------	---	------	------

+1 -1 4

(repeated from
pg 51)

A	80	16.8	16.6	-2	16.7	1, 1
	78	17.1	17.1	0	17.1	0, 0
	79	17.2	17.3	1	17.2	0, 1
	76	17.0	17.2	2	17.1	1, 1
	77	17.5	17.8	3	17.6	1, 2
	75	17.7	17.8	1	17.8	1, 0
	74	17.0	17.0	0	17.0	0, 0
	60	17.5	17.3	-2	17.4	1, 1
	59	17.0	17.2	2	17.1	1, 1
	33	17.6	17.7	1	17.6	0, 1
	32	17.6	17.5	-1	17.6	0, 1
	31	16.6	16.5	-1	16.6	0, 1
	30	17.7	17.8	1	17.8	1, 0
	34	17.5	17.7	+2	17.6	1, 1
	35	16.4	16.5	1	16.4	0, 1

+2 -6 15

6718

89

A 36	17.0	16.9	-1	17.0	0, 1
49	16.9	16.8	-1	16.8	1, 0
50	17.3	17.2	-1	17.2	1, 0
51	17.9	17.9	0	17.9	0, 0
48	17.7	17.7	0	17.7	0, 0
52	18.0	17.9	-1	18.0	0, 1
53	17.8	18.0	2	17.9	1, 1
54	17.3	17.3	0	17.3	0, 0
55	17.7	17.7	0	17.7	0, 0
56	17.5	17.5	0	17.5	0, 0
57	17.8	17.8	0	17.8	0, 0
58	17.8	17.8	0	17.8	0, 0
66	17.0	17.0	0	17.0	0, 0
65	17.3	17.6	3	17.4	1, 2
64	17.2	17.3	1	17.2	0, 1

+1 -2 15

A 63 17.8 17.7 -1 17.8 0, 1

62 16.2 16.1 -1 16.2 0, 1

61 18.0 18.0 0 18.0 0, 0

(44 17.3; 17.1; -2 17.2; 1, 1 Copied on pag. 63)

45 17.2 16.9 -3 17.0 2, 1

46 16.9 16.7 -2 16.8 1, 1

47 16.8 16.6 -2 16.7 1, 1

67 17.3 17.6 3 17.4 1, 2

68 17.4 17.6 2 17.5 1, 1

69 17.2 17.5 3 17.4 2, 1

70 17.6 17.7 1 17.6 0, 1

71 16.7 16.6 -1 16.6 1, 0

144 16.5 16.5 0 16.5 0, 0

72 16.4 16.2 -2 16.3 1, 1

73 ~~17.4~~ 17.4 4 17.4 0, 0, 1
17.4 17.5 +6 -4 15

6718

A 81	17.6	17.7	1	17.6	0, 1
82	18.0	18.0	0	18.0	0, 0
83	17.4	17.2	-2	17.3	1, <u>1</u>
84	16.5	16.4	-1	16.4	1, 0
85	17.2	17.0	-2	17.1	1, <u>1</u>
86	17.5	17.6	1	17.6	<u>1</u> , 0
87	17.5	17.2	-3	17.4	1, <u>2</u>
142	17.6	17.8	2	17.7	<u>1</u> , 1
98	17.8	17.8	0	17.8	0, 0
97	17.4 17.0	17.0 17.1	-4	17.0	0, 0, 1
88	17.1	16.8	-3	17.0	1, <u>2</u>
89	17.8:	17.6:	-2	17.7:	1, <u>1</u>
90	17.9	17.6	-3	17.8	1, <u>2</u>
91	16.7	16.5	-2	16.6	1, <u>1</u>
92	17.4	17.4	0	17.4	0, 0
				+8 -2	15

92

A	93	16.9:	17.2:	3	17.0:	1, 2
	94	17.5:	17.5:	0	17.5	0, 0
	95	17.6:	17.7:	1	17.6:	0, 1
	96	17.5:	17.5:	0	17.5:	0, 0
	143	17.3	17.5:	2	17.4	1, 1
A	100	17.7	17.6	-1	17.6	1, 0
						+1 -2 6

Totals, 1st residual +169 -162 for 525 net.

Average deviation .044 mag.

Seq 802

B	273	16.6	16.5	-1	16.6	0, 1
---	-----	------	------	----	------	------

6718

93

I.C.

I 26901
(defecton
loop)

767	15.0	15.0	0	15.0	0,0	✓
771	15.6	15.6	0	15.6	0,0	✓
775	15.3	15.2	-1	15.2	1,0	✓
794	15.7	15.8	1	15.8	1,0	✓
2990	15.7	15.7	0	15.7	0,0	✓
2991	16.2	16.4	2	16.3	1,1	✓
2994	16.0	16.0	0	16.0	0,0	✓
3004	16.1	16.3	2	16.2	1,1	✓
3006	16.2	16.3	1	16.2	0,1	✓
3008	15.3	15.2	-1	15.2	1,0	✓
3012	16.1	16.3	2	16.2	1,1	✓
3013	16.0	16.0	0	16.0	0,0	✓
3016	16.5	16.6	1	16.6	1,0	✓
3017	16.6	16.5	-1	16.6	0,1	✓
3018	15.9	15.9	0	15.9	0,0	✓

14.9

14.7

3024	15.7	15.8	1	15.8	1, 0	✓	14.9
3025	15.9	15.9	0	15.9	0, 0	✓	
3028	16.1	16.0	-1	16.0	1, 0	✓	15.0
3029	15.3	15.1	-2	15.2	1, 1	✓	14.9
3031	17.0	17.0	0	17.0	0, 0	✓	
3032	15.8	15.8	0	15.8	0, 0	✓	
3034	16.5	16.6	1	16.6	1, 0	✓	
3037	16.4	16.5	1	16.4	0, 1	✓	
3038	16.8	16.7	-1	16.8	0, 1	✓	
3039	16.1	16.0	1	16.0	1, 0	✓	
3040	16.7	16.5	-2	16.6	1, 1	✓	
3041	16.9	16.8	-2	16.8	1, 0	✓	
3043	16.6	16.6	0	16.6	0, 0	✓	
3046	15.8	16.0	2	15.9	1, 1	✓	
3047	16.7	16.8	1	16.8	1, 0	✓	

6718

I.C.

3052	17.1	17.1	0	17.1	0,0	✓
3053	16.3	16.2	-1	16.2	1,0	✓
3055	16.4	16.4	0	16.4	0,0	✓
3060	15.6	15.6	0	15.6	0,0	✓
3063	15.6	15.5	-1	15.6	0,1	✓
3065	15.4	15.3	-1	15.4	0,1	✓
3066	15.8	15.8	0	15.8	0,0	✓
3068	16.7	17.0	3	16.8	1,2	✓
3069	16.5	16.5	0	16.5	0,0	✓
3078	15.8	15.6	-2	15.7	1,1	✓
3079	16.6	16.5	-1	16.6	0,1	✓
3080	16.1	16.1	0	16.1	0,0	✓
3081	15.9	16.0	1	16.0	1,0	✓
3091	15.4	15.4	0	15.4	0,0	✓
3092	16.8	16.8	0	16.8	0,0	✓

15.0:

3093	15.4	15.5	1	15.4	0.1	✓	
3094	15.1	15.3	2	15.2	1.1	✓	14.7
3097	15.9	16.0	1	16.0	1.0	✓	
3099	15.5	15.5	0	15.5	0.0	✓	
3100	16.0	16.1	1	16.0	0.1	✓	
3101	16.6	16.9	3	16.8	2.1	✓	
3106	17.1	17.1	0	17.1	0.0	✓	
3107	15.3	15.5	2	15.4	1.1	✓	14.9
3108	16.6	16.6	0	16.6	0.0	✓	
3109	15.5	15.6	1	15.6	1.0	✓	
3120	16.8	16.7	-1	16.8	0.1	✓	
3121	16.0	16.2	2	16.1	1.1	✓	15.11
3126	16.9	16.8	-1	16.8	1.0	✓	
3127	16.6	16.7	1	16.6	0.1	✓	
3128	15.4	15.5	1	15.4	0.1	✓	
3137	17.0	17.2	2	17.1	1.1	✓	

6718

97

J.C.

3138	17.1	17.1	0	17.1	0,0	✓
3147	16.7	16.7	0	16.7	0,0	✓
3149	16.8	16.7	-1	16.8	0,1	✓
3151	15.8	15.6	-2	15.7	1,1	✓
3157	16.6	16.5	-1	16.6	0,1	✓
3159	16.9	16.8	-1	16.8	1,0	✓
3167	15.9	15.7	-2	15.8	1,1	✓
3170	15.3	15.3	0	15.3	0,0	✓
3173	16.6	16.4	-2	16.5	1,1	✓
3174	16.3	16.3	0	16.3	0,0	✓
3175	16.0	16.0	0	16.0	0,0	✓
3177	16.4	16.7	3	16.6	2,1	✓
3187	16.1	16.2	1	16.2	1,0	✓
3188	15.7	15.7	0	15.7	0,0	✓
3196	16.6	16.7	1	16.6	0,1	✓

15.0

15.1:

14.9

3199	15.7	15.6	-1	15.6	1,0	✓
3209	15.8	16.0	2	15.9	1,1	✓
3224	16.7	17.1	4	16.9	2,2	✓
3233	16.2	16.2	0	16.2	0,0	✓
3235	16.3	16.2	-1	16.2	1,0	✓
3236	16.6	16.5	-1	16.6	0,1	✓
3238	15.6	15.6	0	15.6	0,0	✓
3240	16.7	16.6	-1	16.6	1,0	✓
3244	15.4	15.6	2	15.5	1,1	✓
3246	16.3	16.7	4	16.5	2,2	✓
3255	15.2	15.2	0	15.2	0,0	✓
3261	16.5	16.7	2	16.6	1,1	✓
3275	16.7	16.7	0	16.7	0,0	✓
3284	16.4	16.4	0	16.4	0,0	✓
3291	16.4	16.5	1	16.4	0,1	✓
3303	15.5	15.5	0	15.5	0,0	✓

6718

99

I. C.

3328	15.4	15.5	1	15.4	0, 1	✓
------	------	------	---	------	------	---

3331	15.8	15.7	-1	15.8	0, 1	✓
------	------	------	----	------	------	---

3347	16.4	16.5	1	16.4	0, 1	✓
------	------	------	---	------	------	---

3357	16.8	16.8	0	16.8	0, 0	✓
------	------	------	---	------	------	---

3371	16.0	16.1	1	16.0	0, 1	✓
------	------	------	---	------	------	---

3388	16.3	16.2	-1	16.2	1, 0	✓
------	------	------	----	------	------	---

3393	15.8	15.9	1	15.8	0, 1	✓
------	------	------	---	------	------	---

3374	16.7	16.8	1	16.8	1, 0	✓
------	------	------	---	------	------	---

3383	16.5	16.7	2	16.6	1, 1	✓
------	------	------	---	------	------	---

3412	16.4	16.5	1	16.4	0, 1	✓
------	------	------	---	------	------	---

Supplementary:

768	15.6	15.5	-1	15.6	0, 1	✓
-----	------	------	----	------	------	---

769	14.8	15.0	2	14.9	1, 1	✓
-----	------	------	---	------	------	---

3019	16.0	15.8	-2	15.9	1, 1	✓
------	------	------	----	------	------	---

3020	16.4	16.5	1	16.4	0, 1	✓
------	------	------	---	------	------	---

3021	16.3	16.4	1	16.4	1, 0	✓
------	------	------	---	------	------	---

Continued in Book 7 pg. 71

		6720.		
		6720 mag.	6718 mag.	
C	14	16.5	16.5	0
	17			
	17	17.0	16.6	-4
	33	17.0	16.7	-3
	20	16.7	16.7	0
	96	stellar	16.8	
	97	17.0	16.9	-1
	32	17.0	17.0	0
	3	16.6	17.0	4
	21	17.0	17.0	0
	64	17.0	17.0	0
	29	17.0	17.2	2
	62	17.1	17.2	1
	9	17.6	17.4	-2
	95	17.8	17.4	-4
	98	17.2	17.4	2

— These nebulae also on H 6718 —

102

C

These nebulae also on A 6718

99

6720	6718	
17.3	17.4	1

5

17.0:	17.5	5
-------	------	---

63

17.4	17.5	1
------	------	---

93

17.2:	17.5	3
-------	------	---

28

17.8	17.6	-2
------	------	----

94

17.4:	17.6:	2
-------	-------	---

30

17.6	17.8	2
------	------	---

34

17.8	17.8	0
------	------	---

-16 + 23

Sequence 9.

C

62

17.2

17.0

-2

17.1

1, 1

91

17.7

17.6

-1

17.6

1, 0

63

17.4

17.3

-1

17.4

0, 1

64

17.0

17.0

0

17.0

0, 0

60

17.7

17.7

0

17.7

0, 0

61

17.9

17.9

0

17.9

0, 0

C

65

17.4

17.7

1

17.6

0, 1

6720.

103

C 66	18.0	18.0	0	18.0	0, 0
67	17.7	17.6	-1	17.6	1, 0
68	17.9	17.8	-1	17.8	1, 0
95	17.8	17.7	-1	17.8	0, 1

~~96~~

stellar

Identity 97	17.7	17.7	0	17.7	0, 0
	17.1	17.0	-1	17.0	1, 0
46	17.8	17.9	1	17.8	0, 1
50	17.6	17.5	-1	17.6	0, 1
47	17.4	17.1	-3	17.2	2, 1
48	18.0	17.8	-2	17.9	1, 1
49	17.5	17.6	1	17.6	1, 0
45	17.7	17.7	0	17.7	0, 0
44	17.0	16.6	-4	16.8	2, 2
43	17.9	18.0	1	18.0	1, 0
C 41	18.0	18.1	1	18.0	0, 1

C

40	17.1	17.1	0	17.1 [✓]	0 [✓] , 0 [✓]
----	------	------	---	-------------------	---------------------------------

103	18.1	18.0	-1	18.0 [✓]	1 [✓] , 0 [✓]
-----	------	------	----	-------------------	---------------------------------

104	18.0	18.1	1	18.0 [✓]	0 [✓] , 1 [✓]
-----	------	------	---	-------------------	---------------------------------

42	17.3	17.1	-2	17.2 [✓]	1 [✓] , 1 [✓]
----	------	------	----	-------------------	---------------------------------

35	17.4	17.6	2	17.5 [✓]	1 [✓] , 1 [✓]
----	------	------	---	-------------------	---------------------------------

36	17.9	18.0	1	18.0 [✓]	1 [✓] , 0 [✓]
----	------	------	---	-------------------	---------------------------------

37	star with scratch on either side				
----	----------------------------------	--	--	--	--

38	17.7	17.6	-1	17.6 [✓]	1 [✓] , 0 [✓]
----	------	------	----	-------------------	---------------------------------

39	17.9	17.9	0	17.9 [✓]	0 [✓] , 0 [✓]
----	------	------	---	-------------------	---------------------------------

92	18.0	18.0	0	18.0 [✓]	0 [✓] , 0 [✓]
----	------	------	---	-------------------	---------------------------------

26	17.7	18.0	3	17.8 [✓]	1 [✓] , 2 [✓]
----	------	------	---	-------------------	---------------------------------

27	17.2	17.1	-1	17.2 [✓]	0 [✓] , 1 [✓]
----	------	------	----	-------------------	---------------------------------

28	17.8	17.8	0	17.8 [✓]	0 [✓] , 0 [✓]
----	------	------	---	-------------------	---------------------------------

29	17.0	17.1	1	17.0 [✓]	0 [✓] , 1 [✓]
----	------	------	---	-------------------	---------------------------------

C 30	17.6	17.7	1	17.6 [✓]	0 [✓] , 1 [✓]
------	------	------	---	-------------------	---------------------------------

6720

105

C	31	17.6	17.6	0	17.6	0, 0
	32	17.1	16.9	-2	17.0	1, 1
	33	17.1	17.0	-1	17.0	1, 0
	34	17.7	17.9	2	17.8	1, 1
	105	16.9	17.0	1	17.0	1, 0
	20	16.7	16.7	0	16.7	0, 0
	21	17.0	16.9	-1	17.0	0, 1
	18	16.6	16.5	-1	16.6	0, 1
	19	17.1	17.1	0	17.1	0, 0
	16	17.0	17.3	3	17.2	2, 1
	17	16.9	17.0	1	17.0	1, 0
	15	17.8	18.0	2	17.9	1, 1
	14	16.6	16.4	-2	16.5	1, 1
	9	17.7	17.5	-2	17.6	1, 1
C	8	17.7	17.7	0	17.7	0, 0

C	7	17.6	17.6	0	17.6	0, 0
	22	18.0	17.8	-2	17.9	1, 1
	23		stellar			
	24	16.9	17.2	3	17.0	1, 2
	25	17.6	17.9	3	17.8	2, 1
	102	17.5	17.6	1	17.6	1, 0
	12	17.6	17.5	-1	17.6	0, 1
	13	17.0	17.1	1	17.0	0, 1
C	11	17.2	17.1	-1	17.2	0, 1
B	98	17.8	17.9	1	17.8	0, 1
	97	18.0	18.0	0	18.0	0, 0
	96	17.2	17.4	2	17.3	1, 1
B	95	17.5	17.5	0	17.5	0, 0
Sequence K	160	16.7	16.9	2	16.8	1, 1
B	162	17.5	17.5	0	17.5	0, 0

6720

B-201	17.8	17.7	-1	17.8	0, 1
163	17.3	17.3	0	17.3	0, 0
164	17.9	17.8	-1	17.8	1, 0
165	17.4	17.4	0	17.4	0, 0
-189	17.3	17.1	-2	17.2	1, 1
166	17.5	17.4	-1	17.4	1, 0
167	17.5	17.3	-2	17.4	1, 1
173	17.1	17.0	-1	17.0	1, 0
174	17.4	17.0	-4	17.2	2, 2
175	17.2	17.1	-1	17.2	0, 1
B 176	16.9	16.8	-1	16.8	1, 0
C 81	17.0	16.9	-1	17.0	0, 1
82	17.4	17.2	-2	17.3	1, 1
87	17.6	17.6	0	17.6	0, 0
C 83	17.2	17.1	-1	17.2	0, 1

Large r ft.

108

C	84	17.3	17.1	-2	17.2	1, 1	
	85	16.6	16.5	-1	16.6	0, 1	
	86	16.7	16.9	2	16.8	1, 1	
	88	16.7	16.8	1	16.8	1, 0	
	89	16.6	16.7	1	16.6	0, 1	
	90	17.3	17.2:	-1	17.2	1, 0	large
	-99	17.5	17.1	-4	17.3	2, 2	
	-98	17.2	17.3:	1	17.2	0, 1	large
	76	17.3	17.2	-1	17.2	1, 0	
	75	17.7:	18.0:	3	17.8:	1, 2	large
	74	17.5	17.5	0	17.5	0, 0	
	77	17.0	17.0	0	17.0	0, 0	
	78	17.9:	17.9	0	17.9	0, 0	Identity?
	79	17.2	17.0	-2	17.1	1, 1	
C	80	16.9	16.8	-1	16.8	1, 0	

6720

109

C	69	17.3	17.4	1	17.4	$\bar{1}, \bar{0}$
	73	17.2: 17.5	17.8:	6	17.5	$\bar{3}, \bar{3}, \bar{0}$
	72	17.6	17.8	2	17.7	$\bar{1}, \bar{1}$
	71	17.0	16.8	-2	16.9	$\bar{1}, \bar{1}$
	70	17.5	17.7	2	17.6	$\bar{1}, \bar{1}$
	100	17.9	17.7	-2	17.8	$\bar{1}, \bar{1}$
	101	17.4	17.5	1	17.4	$\bar{0}, \bar{1}$
	58	17.1	17.1	0	17.1	$\bar{0}, \bar{0}$
	59	17.7	17.5	-2	17.6	$\bar{1}, \bar{1}$
	54	18.0	18.0	0	18.0	$\bar{0}, \bar{0}$
	55	18.0	17.8	-2	17.9	$\bar{1}, \bar{1}$
	56	17.4	17.2	-2	17.3	$\bar{1}, \bar{1}$
	57	ht 15.9	ht 16.1			
	57	17.6	17.6	0	17.6	$\bar{0}, \bar{0}$
C	52	17.7	18.1	4	17.9	$\bar{2}, \bar{2}$

large

C	53	17.5	17.7	2	17.6	$\underline{1}, \overset{\vee}{1}$
	106	16.6	16.7	1	16.6	$\overset{\vee}{0}, \overset{\vee}{1}$
	107	16.9	17.2	3	17.0	$\underline{1}, \overset{\vee}{2}$
C	108	17.3	17.2	-1	17.2	$\overset{\vee}{1}, \overset{\vee}{0}$
B	159	17.7	17.6	-1	17.6	$\overset{\vee}{1}, \overset{\vee}{0}$
	158	17.2	17.3	1	17.2	$\overset{\vee}{0}, \overset{\vee}{1}$
	157	17.4	17.5	1	17.4	$\overset{\vee}{0}, \overset{\vee}{1}$
	156	17.9	17.7	-2	17.8	$\overset{\vee}{1}, \underline{1}$
	104	17.6	17.7	1	17.6	$\overset{\vee}{0}, \overset{\vee}{1}$
	103	18.0	18.0	0	18.0	$\overset{\vee}{0}, \overset{\vee}{0}$
	102	16.9	17.1	2	17.0	$\underline{1}, \overset{\vee}{1}$
	101	17.4	17.6	2	17.5	$\underline{1}, \overset{\vee}{1}$
	100	17.9	18.0	1	18.0	$\underline{1}, \overset{\vee}{1}$
	99	17.9	17.9	0	17.9	$\overset{\vee}{0}, \overset{\vee}{0}$
B	-108	16.8	16.7	-1	16.8	$\overset{\vee}{0}, \underline{1}$

6720

B	107	16.6	16.7	1	16.6	0, 1
	109	17.7	17.9	2	17.8	1, 1
	111	17.5	17.4	-1	17.4	1, 0
	112	17.3	17.0	-3	17.2	1, 2
	113	17.5	17.5	0	17.5	0, 0
	105	17.1	17.1	0	17.1	0, 0
	106	17.9	18.1	2	18.0	1, 1
	110	16.7	16.8	1	16.8	1, 0
	114	17.4	17.0	-4	17.2	2, 2
	115	17.3	17.3	0	17.3	0, 0
	116	17.5	17.5	0	17.5	0, 0
	117	17.5	17.5	0	17.5	0, 0
	118	17.8	17.6	-2	17.7	1, 1
	119	17.6	17.4	-2	17.5	1, 1
	180	16.7	16.6	-1	16.6	1, 0

112

B	152	17.4	17.6	2	17.5	1, 1
	-196	17.6	17.6	0	17.6	0, 0
	153	17.4	17.5	1	17.4	0, 1
	-198	16.9	16.9	0	16.9	0, 0
	-197	17.1	17.2	1	17.2	1, 0
	124	17.3	17.4	1	17.4	1, 0
	125	16.8	16.9	1	16.8	0, 1
	126	17.6	17.9	3	17.8	2, 1
	123	17.7	17.7	0	17.7	0, 0
	122	17.5	17.5	0	17.5	0, 0
	120	17.0	17.1	1	17.0	0, 1
	121	16.7	16.8	1	16.8	1, 0
	155	17.4	17.3	-1	17.4	0, 1
	154	17.5	17.5	0	17.5	0, 0
B	-199	17.3	17.3	0	17.3	0, 0

6720

113

B	151	16.5	16.6	1	16.6	$\bar{1}, \bar{0}$
	150	17.7	17.9	2	17.8	$\bar{1}, \bar{1}$
	148	17.8	17.8	0	17.8	$\bar{0}, \bar{0}$
	149	17.0	17.1	1	17.0	$\bar{0}, \bar{1}$
	-200	16.9	17.0	1	17.0	$\bar{1}, \bar{0}$
	145	16.8	16.8	0	16.8	$\bar{0}, \bar{0}$
	146	17.0	17.0:	0	17.0	$\bar{0}, \bar{0}$
	142	16.8	16.8	0	16.8	$\bar{0}, \bar{0}$
	143	17.5	17.7	2	17.6	$\bar{1}, \bar{1}$
	172	17.2	17.3	1	17.2	$\bar{0}, \bar{1}$
	168	17.0	16.9	-1	17.0	$\bar{0}, \bar{1}$
	169	17.3	17.6	3	17.4	$\bar{1}, \bar{2}$
	170	17.6	17.6	0	17.6	$\bar{0}, \bar{0}$
	171	17.8	17.8	0	17.8	$\bar{0}, \bar{0}$
B	202	16.4	16.6	2	16.5	$\bar{1}, \bar{1}$

114

-B	203	17.5	17.5	0	17.5	0, 0
-B	204	16.8	16.8	0	16.8	0, 0
(Sequence M.)						
A	-73	17.3	17.3	0	17.3	0, 0
	-92	17.5	17.3	-2	17.4	1, 1
	48	17.1	16.9	-2	17.0	1, 1
	49	16.9	16.8	-1	16.8	1, 0
	47	17.2	17.0	-2	17.1	1, 1
	-66	17.7	17.7	0	17.7	0, 0
A	-71	17.0	17.1	1	17.0	0, 1
B	133	16.8	16.9	1	16.8	0, 1
	132	16.7	16.9	2	16.8	1, 1
	127	17.1	17.1	0	17.1	0, 0
	128	17.1	17.1	0	17.1	0, 0
	129	16.9	16.8	-1	16.8	1, 0
B	130	17.7	17.7	0	17.7	0, 0

B	131	16.6	16.7	1	16.6	0, 1
	135	17.4	16.9	-5	17.2	2, 3, 1
		17.3				
	134	17.0	17.0	0	17.0	0, 0
	136	17.6	16.9	-7	17.2	4, 3, 0
		17.2				
	137	17.5	17.7	2	17.6	1, 1
	138	17.4	17.6	2	17.5	1, 1
	147	17.5	17.4	-1	17.4	1, 0
	139	17.1	17.2	1	17.2	1, 0
	140	16.8	16.6	-2	16.7	1, 1
	144	17.2	17.1	-1	17.2	0, 1
	-190	16.7	16.8	1	16.8	1, 0
B	141	16.9	16.7	-2	16.8	1, 1
A	52	17.2	17.0	-2	17.1	1, 1
	-67	17.1	17.5	4	17.3	2, 2
A	53	17.0	17.0	0	17.0	0, 0

A	55	16.9	17.1	2	17.0	1.1
	54	17.5	17.4	-1	17.4	1.0
	-68	16.3	16.4	1	16.4	1.0
	-69	17.0	17.0	0	17.0	0.0
	50	17.3	17.1	-2	17.2	1.1
	51	16.6	16.5	-1	16.6	0.1
	45	16.2	16.4	2	16.3	1.1
	44	16.8	16.8	0	16.8	0.0
	41	16.7	16.6	-1	16.6	1.0
	43	17.6	17.5	-1	17.6	0.1
A	42	16.6	16.6	0	16.6	0.0
B	63	17.1	17.0	-1	17.0	1.0
	64	17.7	17.8	1	17.8	1.0
	65	17.2	17.4	2	17.3	1.1
B	66	16.6	16.6	0	16.6	0.0

B	67	17.8	17.7	-1	17.8	0, 1
-181		17.0	17.3	3	17.2	2, 1
68		17.4	17.6	2	17.5	1, 1
69		17.2	17.1	-1	17.2	0, 1
73		17.3	17.3	0	17.3	0, 0
75		17.5	17.4	-1	17.4	1, 0
76		17.1	16.9	-2	17.0	1, 1
71		17.6	17.7	1	17.6	0, 1
70		17.5	17.7	2	17.6	1, 1
-187		17.7	17.9	2	17.8	1, 1
77		17.3	17.2	-1	17.2	1, 0
-188		17.8	17.8	0	17.8	0, 0
B	79	17.7	17.8	1	17.8	1, 0
A	40	16.9	16.9	0	16.9	0, 0
A	39	17.3	17.1	-2	17.2	1, 1

118

A	38	16.8	16.7	-1	16.8	0, 1
	37	17.7	17.9	2	17.8	1, 1
	27	17.9	18.0	1	18.0	1, 0
	26	17.3	17.3	0	17.3	0, 0
	25	16.8	16.8	0	16.8	0, 0
	23	17.5	17.7	2	17.6	1, 1
	24	17.0	16.8	-2	16.9	1, 1
	28	16.9	17.0	1	17.0	1, 0
	29	17.8	17.7	-1	17.8	0, 1
	30	17.5	17.5	0	17.5	0, 0
	31	16.7	16.6	-1	16.6	1, 0
	32	16.9	17.0	1	17.0	1, 0
	-60	17.4	17.5	1	17.4	0, 1
	33	16.4	16.4	0	16.4	0, 0
A	-61	17.6	17.7	1	17.6	0, 1

6720

119

A	34	17.0	17.2	2	17.1	$\bar{1}, \bar{1}$
	35	16.8	17.0	2	16.9	$\bar{1}, \bar{1}$
	34	17.6	17.6	0	17.6	$\bar{0}, \bar{0}$
	-62	17.1	17.1	0	17.1	$\bar{0}, \bar{0}$
	-63	16.9	16.9	0	16.9	$\bar{0}, \bar{0}$
	-64	17.2	17.1	-1	17.2	$\bar{0}, \bar{1}$
	46	16.8	16.8	0	16.8	$\bar{0}, \bar{0}$
	-65	17.3	17.6	3	17.4	$\bar{1}, \bar{2}$
Sequence L						
	6	16.1	16.3	2	16.2	$\bar{1}, \bar{1}$
	7	16.9	16.8	-1	16.8	$\bar{1}, \bar{0}$
	8	17.6	17.7	1	17.6	$\bar{0}, \bar{1}$
	-70	17.2	17.2	0	17.2	$\bar{0}, \bar{0}$
	5	17.8	17.7	-1	17.8	$\bar{0}, \bar{1}$
	4	17.7	17.9	2	17.8	$\bar{1}, \bar{1}$
A	3	17.5	17.6	1	17.6	$\bar{1}, \bar{0}$

very large.

120

A	2	16.8	17.0	2	16.9	1, 1
	1	17.6	17.7:	1	17.6	0, 1
	-58	17.5	17.5	0	17.5	0, 0
	9	17.3	17.1:	-2	17.2	1, 1
	-57	17.1	17.0	-1	17.0	1, 0
	-56	17.2	17.2	0	17.2	0, 0
	10	17.4	17.5	1	17.4	0, 1
	11	17.6	17.7	1	17.6	0, 1
	12	17.4	17.4	0	17.4	0, 0
	15	17.6	17.7	1	17.6	0, 1
	16	17.8	17.8	0	17.8	0, 0
	13	17.2	17.4	2	17.3	1, 1
	14	16.8	16.7	-1	16.8	0, 1
	19	17.9	17.9	0	17.9	0, 0
A	17	16.7	16.7	0	16.7	0, 0

large

A	18	16.9	16.8	-1	16.8	1, 0
	20	17.6	17.4	-2	17.5	1, 1
	22	17.8	17.8	0	17.8	0, 0
	-59	17.7	17.7	0	17.7	0, 0
	21	17.9	18.0	1	18.0	1, 0
	22a	16.7	16.8	1	16.8	1, 0
A	-74	16.7	16.7	0	16.7	0, 0
B	11	18.0	18.0	0	18.0	0, 0
	14	17.2	17.3	1	17.2	0, 1
	15	17.5	17.6	1	17.6	1, 0 0, 1
	13	17.1	17.2	1	17.2	1, 0
	12	17.7	17.7	0	17.7	0, 0
	10	16.7	16.7	0	16.7	0, 0
	9	17.4	17.3	-1	17.4	0, 1
B	8	17.6	17.5	-1	17.6	0, 1

122

B

6

17.2

17.1

-1

17.2

0, \checkmark
 \perp

3

16.9

16.8

-1

16.8

1, \checkmark
0

4

17.8

17.6

-2

17.7

1, \checkmark
 \perp

2

h.t. 16.0

h.t. 15.9

16

17.5

17.5

0

17.5

0, \checkmark
0

17

17.7

17.7

0

17.7

0, \checkmark
0

18

17.0

17.2

2

17.1

1, \checkmark
 \perp

19

17.2

17.2

0

17.2

0, \checkmark
0

20

17.9

17.8

-1

17.8

1, \checkmark
0

21

17.8

17.7

-1

17.8

0, \checkmark
 \perp

56

16.7

16.8

1

16.8

1, \checkmark
0

55

18.1

17.8

-3

18.0

1, \checkmark
 \perp

53

17.8

17.7

-1

17.8

0, \checkmark
 \perp

54

17.4

17.6

2

17.5

1, \checkmark
 \perp

B

51

17.3

17.3

0

17.3

0, \checkmark
0

defect?

6720

B	52	17.1	17.5	4	17.3	$\bar{2}, \bar{2}$
	50	17.9	17.9	0	17.9	$\bar{0}, \bar{0}$
	-182	17.9	18.0	1	18.0	$\bar{1}, \bar{0}$
	-183	18.1	18.1	0	18.1	$\bar{0}, \bar{0}$
	-184	18.0	17.9	-1	18.0	$\bar{0}, \bar{1}$
	57	17.6	17.5	-1	17.6	$\bar{0}, \bar{1}$
	-185	17.7	17.8	1	17.8	$\bar{1}, \bar{0}$
	60	18.0	17.9	-1	18.0	$\bar{0}, \bar{1}$
	61	17.9	17.8	-1	17.8	$\bar{1}, \bar{0}$
	62	16.4	16.3	-1	16.4	$\bar{0}, \bar{1}$
	58	17.8:	17.7:	-1	17.8:	$\bar{0}, \bar{1}$
	59	17.8	17.8	0	17.8	$\bar{0}, \bar{0}$
	72	17.5	17.7	2	17.6	$\bar{1}, \bar{1}$
	78	17.6	17.6	0	17.6	$\bar{0}, \bar{0}$
B	205	16.6	16.5	-1	16.6	$\bar{0}, \bar{1}$

large

124

Sequence H.

B	25	17.6	17.7	1	17.6	0, 1
	26	17.4	17.4	0	17.4	0, 0
	23	18.0	18.0	0	18.0	0, 0
	24	17.9	17.7	-2	17.8	1, 1
	22	16.8:	16.9:	1	16.8:	0, 1
	7	17.1:	17.1:	0	17.1:	0, 0
	5	17.6	17.2	-4	17.4	2, 2
	1	15.7	16.2	5	16.0	3, 2, 0
		16.0				
	27	17.8	17.9	1	17.8	0, 1
	28	17.7	18.0	3	17.8	1, 2
						2, 0
	32	16.0	15.7	-3	15.8	2, 1
	33	17.1	17.6	5	17.1	0, 0, 1
		17.1:	17.0			
	34	16.7	16.6	-1	16.6	1, 0
	35	16.5	16.5	0	16.5	0, 0
B	37	16.7	16.7	0	16.7	0, 0

very large

" "

6720.

125

B	43	17.7	17.7	0	17.7	0, 0
	45	17.1	17.4	3	17.2	1, 2
	44	18.0	17.8	-2	17.9	1, 1
	46	17.4	17.3	-1	17.4	0, 1
	47	17.8	17.8	0	17.8	0, 0
	48	18.0	18.0	0	18.0	0, 0
-	194	17.9	17.8	-1	17.8	1, 0
	49	17.6	17.7	1	17.6	0, 1
-	195	17.8	18.0	2	17.9	1, 1
	38	17.7	17.8	1	17.8	1, 0
	39	17.4	17.2	-2	17.3	1, 1
	40	16.6	16.6	0	16.6	0, 0
	41	17.6	17.4	-2	17.5	1, 1
	42	17.7	17.9	2	17.8	1, 1
B	84	17.5	17.1	-4	17.3	2, 2

B 85 h.t. 16.1 h.t. 15.9
15.4?

86 17.0 16.8 -2 16.9 1, 1

83 18.0 18.0 0 18.0 0, 0

82 17.2 17.0 -2 17.1 1, 1

81 17.7 17.8 1 17.8 1, 0

80 17.8 17.9 1 17.8 0, 1

29 17.2; 17.3; 1 17.2; 0, 1

31 17.8 17.9 1 17.8 0, 1

30 18.0 18.0 0 18.0 0, 0

-192 16.8 16.6 -2 16.7 1, 1

-191 17.1 17.0 -1 17.0 1, 0

-193 17.2 17.3 1 17.2 0, 1

36 17.6 18.0 4 17.8 2, 2

87 18.0 18.0 0 18.0 0, 0

B 88 17.0 16.7 -3 16.8 2, 1

6720

127

B	89	17.5	17.6	1	17.6	1, 0
	90	17.0	16.9	-1	17.0	0, 1
	91	16.9	17.0	1	17.0	1, 0
	92	17.0	17.0	0	17.0	0, 0
	93	17.1	17.2	1	17.2	1, 0
	94	17.4	17.2	-2	17.3	1, 1
	179	17.2	17.3	1	17.2	0, 1
	178	17.3	17.4	1	17.4	1, 0
B	177	17.5	17.5	0	17.5	0, 0
C	10	16.7:	16.5:	-2	16.6:	1, 1

large

6

stellar

	4	17.5	17.1	-4	17.3	2, 2
	5	16.9:	17.0:	1	17.0:	1, 0
	3	16.7:	16.4:	-3	16.6:	1, 2
C	2	17.3:	17.5:	2	17.4:	1, 1

128

C	1	16.5	16.3	-2	16.4	$\overset{1}{x}, \overset{1}{x}$
---	---	------	------	----	------	----------------------------------

-93	17.1:	17.3:	2	17.2:	$\overset{1}{1}, \overset{1}{1}$
-----	-------	-------	---	-------	----------------------------------

C -94	17.5:	17.4:	-1	17.4:	$\overset{1}{1}, \overset{0}{0}$
-------	-------	-------	----	-------	----------------------------------

Sequence M

-A	75	16.3	16.5	16.4	$\overset{1}{1}, \overset{1}{1}$
----	----	------	------	------	----------------------------------

-76	16.4	16.5	16.4	$\overset{0}{0}, \overset{1}{1}$
-----	------	------	------	----------------------------------

-77	16.2	16.2	16.2	$\overset{0}{0}, \overset{0}{0}$
-----	------	------	------	----------------------------------

A -78	16.0	16.0	16.0	$\overset{0}{0}, \overset{0}{0}$
-------	------	------	------	----------------------------------

J.C.
794

13810

133

Sequence O.

A	20	17.7	17.6	-1	17.6	1, 0	17.8
✓	117	17.1	17.0	-1	17.0	1, 0	
✓	116	17.3	17.2	-1	17.2	1, 0	17.4
✓	115	17.6	17.5	-1	17.6	0, 1	
✓	135	17.9	17.8	-1	17.8	1, 0	
✓	19	17.5	17.6	1	17.6	1, 0	
✓	18	15.9	15.8	-1	15.8	1, 0	
✓	17	17.0	16.9	-1	17.0	0, 1	
✓	✓ 16	17.6	17.5	-1	17.6	0, 1	
✓	10	ht. 15.5	ht. 15.5				
✓	15	17.1	17.0	-1	17.0	1, 0	17.1
✓	14	17.8	17.6	-2	17.7	1, 1	
✓	13	16.9	17.0	1	17.0	1, 0	
✓	12	17.3	17.1	-2	17.2	1, 1	
A ✓	11	17.2	17.1	-1	17.2	0, 1	

-2 -14

134

A	✓ 7	16.9	17.3	4	17.1	2, 2.
double? stars?			(star and neb.	st. following)		
	✓ 6	17.8	17.6	-2	17.7	1, 1
	✓ 5	16.9	16.9	0	16.9	0, 0
	✓ 9	17.8	17.8	0	17.8	0, 0
	✓ 4	18.0	18.0	0	18.0	0, 0
	✓ 3	17.4	17.2	-2	17.3	1, 1
	✓ 8	17.2	17.3	1	17.2	0, 1
	✓ 2	17.6	17.8	2	17.7	1, 1
	129	16.3	16.3	0	16.3	0, 0
	131	16.5	16.5	0	16.5	0, 0
	1	17.8	17.3	-5	17.4	1, 0, 0
		17.4	17.4			
	133	15.9	15.9	0	15.9	0, 0
	134	16.5	16.7	2	16.6	1, 1
	26	17.0	16.9	-1	17.0	0, 1
A	27	16.9	16.9	0	16.9	0, 0
				5 -9		

13810

135

Sq. 0

A	28	15.9	16.1	2	16.0	1, 1	
	29	16.4	16.8	4	16.6	2, 2	
	30	17.9	17.9	0	17.9	0, 0	
	31	17.5	17.7	2	17.6	1, 1	
	32	17.7	17.8	1	17.8	1, 0	
	33	15.8	16.1	3	16.0	2, 1	
	34	17.4	17.3	-1	17.4	0, 1	
	35	16.7	16.9	2	16.8	1, 1	
	37	16.8	17.1	3	17.0	2, 1	
	52	16.2	16.4	2	16.3	1, 1	15.9 ✓
	53	15.9	15.9	0	15.9	0, 0	
	58	17.9	18.0	1	18.0	1, 0	
	57	17.7	17.7	0	17.7	0, 0	
	56	17.2	17.5	3	17.4	2, 1	
A	55	17.5	17.4	-1	17.4	1, 0	

23 -2

A	54	18.0	17.8	-2	17.9	1, 1
	59	17.2:	17.6:	4	17.4:	2, 2
	60	17.6	17.5	-1	17.6	0, 1
	61	17.8	17.8	0	17.8	0, 0
	57	17.7	17.8	1	17.8	1, 0
	50	17.8	17.9	1	17.8	0, 1
	119	17.8	17.8	0	17.8	0, 0
	49	17.2	17.2	0	17.2	0, 0
	48	17.3	17.3	0	17.3	0, 0
	47	18.0	18.0	0	18.0	0, 0
	46	17.3:	17.5:	2	17.4:	1, 1
	45	18.0	17.9	-1	18.0	0, 1
	44	17.6	17.6	0	17.6	0, 0
	39	17.9	17.8	-1	17.8	1, 0
A	38	17.7	17.7	0	17.7	0, 0

8 -5

13810

137

Seq O.

A	36	17.1	17.0	-1	17.0	1, 0	
	40	17.8	17.7	-1	17.8	0, 1	
	41	16.1:	16.6:	5	16.4:	3, 2	
	43	17.8:	17.7	-1	17.8	0, 1	
	132	16.5	16.6	1	16.6	1, 0	16.2 ^v
	42	17.0:	16.8:	-2	16.9:	1, 1	16.7 ^v
	118	16.0	16.2	2	16.1	1, 1	15.7 ^v
	24	16.3	16.5	2	16.4	1, 1	16.2 ^v
	22	16.5	16.8	3	16.6	1, 2	16.4 ^v
	23	17.2	17.1	-1	17.2	0, 1	
	21	17.4	17.2	-2	17.3	1, 1	
	130	16.6	16.5	-1	16.6	0, 1	16.2
A	25	17.0	17.1	1	17.0	0, 1	
B	226	—	—	—	—	—	—
	star?	yes					
B	229	17.6	17.6	0	17.6	0, 0	

14 - 9

138

B	228	17.9	17.8	-1	17.8	1, 0	
	227	16.7	16.7	0	16.7	0, 0	16.5
	225	too faint					
	224	17.8	17.8	0	17.8	0, 0	
	230	16.3	16.2	-1	16.2	1, 0	16.0
	231	17.8	17.7	-1	17.8	0, 1	
	232	17.0	17.0	0	17.0	0, 0	16.8
	235	too light for this sequence.					
	234	17.3	17.3	0	17.3	0, 0	17.1
	233	16.9	16.9	0	16.9	0, 0	16.7
	236	17.6	17.7	1	17.6	0, 1	
	238	16.9	16.9	0	16.9	0, 0	
	239	17.9	17.8	-1	17.8	1, 0	
	240	17.5	17.6	1	17.6	1, 0	
B	221	17.9	17.8	-1	17.8	1, 0	
				2 -5			

Seq O.

B 222	17.5	17.5	0	17.5	0,0
-------	------	------	---	------	-----

220	17.9	17.8	-1	17.8	1,0
-----	------	------	----	------	-----

219	18.0	18.0	0	18.0	0,0
-----	------	------	---	------	-----

218	17.1	17.2	1	17.2	1,0
-----	------	------	---	------	-----

217	18.0	18.0	0	18.0	0,0
-----	------	------	---	------	-----

194	17.9				
-----	------	--	--	--	--

✓ defect?

223	17.7	17.6	-1	17.6	1,0
-----	------	------	----	------	-----

195	17.2	17.3	1	17.2	0,1
-----	------	------	---	------	-----

~~Stellar?~~

190	15.8	15.9	1	15.8	0,1
----------------	-----------------	-----------------	--------------	-----------------	----------------

(IC 3271)

175	17.7	17.8	1	17.8	1,0
-----	------	------	---	------	-----

174	17.6	17.7	1	17.6	0,1
-----	------	------	---	------	-----

193	16.0	16.1	1	16.0	0,1
-----	------	------	---	------	-----

192	17.0	16.9	-1	17.0	0,1
-----	------	------	----	------	-----

191	17.5	17.5	0	17.5	0,0
-----	------	------	---	------	-----

B 190	17.8	17.7	-1	17.8	0,1
-------	------	------	----	------	-----

6 -4

140

B	189	17.7	17.8	1	17.8	1, 0	
	188	16.9	16.8:	-1	16.8	1, 0	16.6:
	187	17.2	17.3	1	17.2	0, 1	17.0
	184	16.8	16.9	1	16.8	0, 1	
	185	17.5	17.5	0	17.5	0, 0	
	183	17.6	17.6	0	17.6	0, 0	
	182	17.6	17.7	1	17.6	0, 1	
	181	17.0	17.0	0	17.0	0, 0	

180

stellar —

	170	17.5	17.5	0	17.5	0, 0	
	179	17.6	17.6	0	17.6	0, 0	
	178	18.0	18.0	0	18.0	0, 0	
	177	17.0	17.1	1	17.0	0, 1	
	168	17.1	17.2	1	17.2	1, 0	
B	169	17.8	17.8	0	17.8	0, 0	

6 - 1

Sey 0.

13810

B 167	17.3	17.4	1	17.4	1, 0
165	17.5	17.4	-1	17.4	1, 0
166	17.8:	17.8	0	17.8	0, 0
164	17.7:	17.9:	2	17.8:	1, 1
163	18.0:	18.0	0	18.0	0, 0
186	17.3	17.2	-1	17.2	1, 0
66	18.0	17.9	-1	18.0	0, 1
65	17.6	17.6	0	17.6	0, 0
70	17.5	17.5	0	17.5	0, 0
71	17.5	17.5	0	17.5	0, 0
72	17.0	17.0	0	17.0	0, 0
73	17.8	17.8	0	17.8	0, 0
74	17.6	17.5	-1	17.6	0, 1
77	17.8	17.7	-1	17.8	0, 1
B 78	17.5	17.5	0	17.5	0, 0

3 -5

16.8

142

B

75	17.5	17.6	1	17.6	1, 0
76	17.7	17.8	1	17.8	1, 0
39	17.2	17.1	-1	17.2	0, 1
38	17.4	17.6	2	17.5	1, 1
41	17.3	17.3	0	17.3	0, 0
42	17.5	17.5	0	17.5	0, 0
69	16.6	16.4	-2	16.5	1, 1
43	17.6	17.4	-2	17.5	1, 1
68	17.8	17.8	0	17.8	0, 0
67	16.1	16.1	0	16.1	0, 0
48	17.1	17.1	0	17.1	0, 0
49	17.4	17.4	0	17.4	0, 0
50	17.6	17.6	0	17.6	0, 0
60	18.0	17.9	-1	18.0	0, 1
too faint - stellar? -					
61	16.9	16.7	-2	16.8	1, 1

B

defect on top

4 - 8

Seq O and P.

13810

B 62	17.4	17.5	1	17.4	0, 1	
64	16.4	16.8	4	16.6	2, 2	16.4
63	16.0	15.9	-1	16.0	0, 1	15.8
58	17.6	17.7	1	17.6	0, 1	
57	17.9	17.6	-3	17.8	1, 2	
— 55	..		too large, try AX plates.			
56	17.7	17.6	-1	17.6	1, 0	
54	17.2	17.3	1	17.2	0, 1	
53	17.4	17.6	2	17.5	1, 1	
52	16.0	16.1	1	16.0	0, 1	16.3
51	17.6	17.5	-1	17.6	0, 1	
B 59	17.8	17.8	0	17.8	0, 0	

scratch a top

B 470 15.8 15.7 -1 15.8 0, 1

Sequence P-

A 111 15.9 15.6 -3 15.8 1, 2

A 110 17.4 17.3 -1 17.4 0, 1

10 -11

A	109	16.9	16.9	0	16.9	0, 0
	107	17.2	17.4	2	17.3	1, 1
	104	17.7	17.6	-1	17.6	1, 0
	105	17.6	17.5	-1	17.6	0, 1
	108	17.5	17.6	1	17.6	1, 0
	103	17.7	17.7	0	17.7	0, 0
	104	17.2	17.2	0	17.2	0, 0
	91	17.4	17.3	-1	17.4	0, 1
	90	17.1	17.0	-1	17.0	1, 0
	89	17.7	17.9	2	17.8	1, 1
	88	17.7	17.8	1	17.8	1, 0
	87	17.0	16.8	-2	16.9	1, 1
	86	16.9	16.7	-2	16.8	1, 1
	85	17.4	17.3	1	17.4	0, 1
A	84	16.5	16.0	-5	16.2	3, 2

7 -13

Seq P

13810

145

A 183	16.7	16.6	-1	16.6	1, 0
128	16.0:	16.0	0	16.0	0, 0
82	17.0:	17.0:	0	17.0:	0, 0
80	17.2	17.4	2	17.3	1, 1
81	17.1	17.1	0	17.1	0, 0
63	17.6	17.8	2	17.7	1, 1
62	17.1	17.3	2	17.2	1, 1
64	17.3	17.3	0	17.3	0, 0
65	17.5	17.7	2	17.6	1, 1
Star s.f.					
66	17.8	17.9	1	17.8	0, 1
67	17.7	17.8	1	17.8	1, 0
68	17.9	18.0	1	18.0	1, 0
70	17.8	17.7	-1	17.8	0, 1
69	17.7	17.7	0	17.7	0, 0
A 71	17.7	17.8	1	17.8	1, 0

12-2

146

A 72 16.9 17.2 3 17.0[✓] 1, 2

73 17.7 17.7 0 17.7[✓] 0, 0

74 17.8 17.9 1 17.8[✓] 0, 1

75 stellar

76 17.7 17.7 0 17.7[✓] 0, 0

77 17.8 17.8 0 17.8[✓] 0, 0

78 17.3 17.5 2 17.4[✓] 1, 1

120 17.9 17.9 0 17.9[✓] 0, 0

92 17.4 17.3 -1 17.4[✓] 0, 1

93 17.6 17.8 2 17.7[✓] 1, 1

94 17.5 17.5 0 17.5[✓] 0, 0

95 17.8 } 18.0 2 17.9[✓] 1, 1

96 17.4 17.4 0 17.4[✓] 0, 0

97 17.3 17.2 -1 17.2[✓] 1, 0

A 98 17.4 17.5 1 17.4[✓] 0, 1

11 -2

Seq P

13810

147

A 99	17.4	17.6	2	17.5	1, 1
100	17.5	17.5	0	17.5	0, 0
101	17.3	17.4	1	17.4	1, 0
102	16.9	16.7	-2	16.8	1, 1
121	17.7	17.6	-1	17.6	1, 0
122	17.6	17.5	-1	17.6	0, 1
112	17.2	17.0	-2	17.1	1, 1
123	17.1	17.1	0	17.1	0, 0
124	17.5	17.4	-1	17.4	1, 0
125	17.2	17.1	-2	17.2	0, 1
113	17.0	16.9	-1	17.0	0, 1
114	16.2	16.5	3	16.4	2, 1
126	17.2	17.2	0	17.2	0, 0
A 127	16.5	16.5	0	16.5	0, 0
B 435	17.6	17.6	0	17.6	0, 0

6 - 10

B	459	17.1, 17.5, 17.5	17.4, 17.4, 17.5	$\begin{Bmatrix} 3 \\ 1 \\ 0 \end{Bmatrix}$	$\begin{Bmatrix} 17.2 \\ 17.4 \\ 17.5 \end{Bmatrix}$	$\begin{Bmatrix} 1, 2 \\ 1, 0 \\ 0, 0 \end{Bmatrix}$
	434	17.3	17.3	0	17.3	0, 0
	433	17.6	17.6	0	17.6	0, 0
	430	17.9	17.9	0	17.9	0, 0
	429	17.8	17.9	1	17.8	0, 1
	432	17.6	17.7	1	17.6	0, 1
	431	17.5	17.4	-1	17.4	1, 0
	421	17.7	17.9	2	17.8	1, 1
	422	17.3	17.3	0	17.3	0, 0
	467	17.6	17.6	0	17.6	0, 0
	420	17.3	17.5	2	17.4	1, 1
	419	17.4	17.4	0	17.4	0, 0
	418	17.8	17.8	0	17.8	0, 0
	417	16.9	16.9	0	16.9	0, 0
B	416	17.6	17.6	0	17.6	0, 0

6 - 1

Seq P.

13810

149

B	415	17.5	17.7	2	17.6	1.1
	303	17.3	17.4	1	17.4	1.0
	302	17.1	17.2	1	17.2	1.0
	304	17.4	17.4	0	17.4	0.0
=	457a	15.7	15.9	2	15.8	1.1
	300	17.6	17.7	1	17.6	0.1
	299	17.0	17.1	1	17.0	0.1
	298	17.5	17.6	1	17.6	1.0
	296	17.0	17.3	3	17.2	2.1
	297	17.3	17.4	1	17.4	1.0
	468	17.7	17.8	1	17.8	1.0
	288	17.6	17.7	1	17.6	0.1
	289	17.4	17.5	1	17.4	0.1
	301	17.9	17.9	0	17.9	0.0
B	295	17.5	17.5	0	17.5	0.0

16 - 0

B	286	17.7	17.8	1	17.8	1, 0
	285	17.5	17.6	1	17.6	1, 0
	284	17.8	17.9	1	17.8	0, 1
	283	17.9	17.5	-4	17.7	2, 2
	282	17.6	17.7	1	17.6	0, 1
	281	br.th. 15.2	br.th. 15.2			
	287	16.4	16.7	3	16.6	2, 1
	294	16.2	16.4	2	16.3	1, 1
	293	17.4	17.4	0	17.4	0, 0
	291	17.8	18.0	2	17.9	1, 1
	290	17.6	17.6	0	17.6	0, 0
	278	17.6	17.7	1	17.6	0, 1
	292	17.9	18.0	1	18.0	1, 0
	275	17.7	17.8	1	17.8	1, 0
B	277	17.8	17.9	1	17.8	0, 1

15-4

Seq P

13810

B 423	17.8	17.9	1	17.8	0,1
424	17.8	17.8	0	17.8	0,0
425	17.7	17.7	0	17.7	0,0
426	18.0	18.0	0	18.0	0,0
428	17.3	17.3	0	17.3	0,0
427	17.2	17.4	2	17.3	1,1
401	17.4	17.5	1	17.4	0,1
402	16.8	16.9	1	16.8	0,1
403	17.7	17.7	0	17.7	0,0
414	16.6	16.6	0	16.6	0,0
404	17.6	17.6	0	17.6	0,0
405	16.7	16.6	-1	16.6	1,0
406	16.5	16.5	0	16.5	0,0
407	16.6	16.7	1	16.6	0,1
B 408	17.6	17.7	1	17.6	0,1

7-1

B	413	17.7	17.8	1	17.8	1, 0
	412	17.0	16.9	-1	17.0	0, 1
	411	17.3	17.2	-1	17.2	1, 0
	409	17.4	17.5	1	17.4	0, 1
	410	17.3	17.3	0	17.3	0, 0
	441	16.6	16.5	-1	16.6	0, 1
	440	17.2	17.3	1	17.2	0, 1
	439	17.3	17.6	3	17.4	1, 2
	443	17.4	17.4	0	17.4	0, 0
	438	17.1	17.1	0	17.1	0, 0
	444	16.0	15.9	-1	16.0	0, 1
	445	17.7	17.7	0	17.7	0, 0
	446	17.8	17.6	-2	17.7	1, 1
	436	15.9	16.0	1	16.0	1, 0
B	437	17.3	17.1	-2	17.2	1, 1

7-8

13810

153

Seq P and N

B	451	17.6	17.7	1	17.6	0,1
	452	17.6	17.5	-1	17.6	0,1
	450	17.7:	17.7:	0	17.7:	0,0
	449	17.2	17.2	0	17.2	0,0
	447	17.3	17.4	1	17.4	1,0
	442	16.3:	16.3	0	16.3	0,0
	448	17.4	17.5	1	17.4	0,1
	383	17.0	17.0	0	17.0	0,0
	382	17.4	17.6	2	17.5	1,1
	453	15.8:	15.7:	-1	15.8:	0,1
	454	16.6	16.8	2	16.7	1,1
	455	17.1	17.1	0	17.1	0,0
	471	17.6	17.6	0	17.6	0,0
Sequence N	6	17.5	17.6	1	17.6	1,0
B	7	17.6	17.7	1	17.6	0,1

17.8

8 - 2

B	8	17.1	17.2	1	17.2	1,0	
	9	17.2	17.3	1	17.2	0,1	17.3
	10	17.9	17.9	0	17.9	0,0	
	11	17.4	17.5	1	17.4	0,1	17.5
	37	17.7	17.8	1	17.8	1,0	
	5	17.4	17.5	1	17.4	0,1	
	1	16.2	16.4	2	16.3	1,1	16.0
	2	16.3	16.4	1	16.4	1,0	16.1
	3	17.8	17.9	1	17.8	0,1	
	4	16.8	17.0	2	16.9	1,1	16.7
	47	17.2	17.3	1	17.2	0,1	
	46	17.9	17.8	-1	17.8	1,0	17.9
	45	17.6	17.6	0	17.6	0,0	
	44	17.4	17.5	1	17.4	0,1	17.2
	456	16.8	17.1	3	17.0	2,1	16.7

16 -1

Seq R

13810B ~~469 16.5 16.5 0 16.5 0,0~~

I-C 3857.

Sequence R.

90 17.8 17.7 -1 17.8[✓] 0,1[✓]89 16.8 17.0 2 16.9[✓] 1,1[✓]88 17.4 17.6 2 17.5[✓] 1,1[✓]91 17.5 17.5 0 17.5[✓] 0,0[✓]92 17.7 17.9 2 17.8[✓] 1,1[✓]93 17.8 17.8 0 17.8[✓] 0,0[✓]94 17.6 17.7 1 17.6[✓] 0,1[✓]104 17.7 17.8 1 17.8[✓] 1,0[✓]103 18.0 18.0 0 18.0[✓] 0,0[✓]102 18.0 17.9 1 18.0[✓] 0,1[✓]101 17.9 17.9 0 17.9[✓] 0,0[✓]100 17.6 17.6 0 17.6[✓] 0,0[✓]97 17.8 17.8 0 17.8[✓] 0,0[✓]B 98 17.9 18.0 1 18.0[✓] 1,0[✓]

10 -1

156

B	469	17.8	17.7	-1	17.8	0, 1
	96	17.3	17.4	1	17.4	1, 0
	95	17.3	17.3	0	17.3	0, 0
	85	17.4	17.4	0	17.4	0, 0
	84	16.0	16.0	0	16.0	0, 0
	83	17.8	17.9	1	17.8	0, 1
	82	17.7	17.7	0	17.7	0, 0
	81	17.0	17.0	0	17.0	0, 0
	80	17.9	17.9	0	17.9	0, 0
	79	16.8	16.9	1	16.8	0, 1
	19	17.5	17.7	2	17.6	1, 1
	18	17.7	17.6	-1	17.6	1, 0
	17	17.7	17.8	1	17.8	1, 0
double?	16	17.8	17.7	-1	17.8	0, 1
B	13	16.9	17.0	1	17.0	1, 0

(156?)

Seq	R		<u>13810</u>			
B 12	16.3:	16.3:	0	16.3:	0, 0	
14	17.8	17.7	-1	17.8	0, 1	
15	17.3	17.4	1	17.4	1, 0	
20	17.7	17.6	-1	17.6	1, 0	
86	16.2	16.1	-1	16.2	0, 1	(16.0 ?)
87	17.9	17.7	-2	17.8	1, 1	
99	17.0:	16.7:	-3	16.8:	2, 1	
114	17.7	17.6	-1	17.6	1, 0	
115	17.8	17.9	1	17.8	0, 1	
116	17.7	17.6	-1	17.6	1, 0	
457	17.3	17.5	2	17.4	1, 1	
117	17.7	17.7	0	17.7	0, 0	
118	17.6	17.6	0	17.6	0, 0	
119	17.7	17.6	-1	17.6	1, 0	
B 120	17.8	17.8	0	17.8	0, 0	
			4 -11			

B	464	17.1	17.0	-1	17.0	1, 0
	121	17.8	17.7	-1	17.8	0, 1
	122	17.5	17.5	0	17.5	0, 0
123	17.9	twopoint				
defect?						
	124	17.3	17.3	0	17.3	0, 0
	125	16.8	16.7	-1	16.8	0, 1
	127	17.6	17.8	2	17.7	1, 1
	126	17.8	17.9	1	17.8	0, 1
	28	17.8	17.8	0	17.8	0, 0
	29	16.3	16.3	0	16.3	0, 0
	30	17.6	17.6	0	17.6	0, 0
	27	15.3	15.6	3	15.4	1, 2
	26	17.6	17.7	1	17.6	0, 1
	31	15.8	15.9	1	15.8	0, 1
B	32	17.2	17.1	-1	17.2	0, 1

8 -4

Seq R

13810

B 33	17.4	17.6	2	17.5	1, 1
34	17.0	17.0	0	17.0	0, 0
128	17.6	17.7	1	17.6	0, 1
35	16.8	17.0	2	16.9	1, 1
36	16.7	16.7	0	16.7	0, 0
(Identify?) 25	17.3	17.2	-1	17.2	1, 0
24	17.1	17.0	-1	17.0	1, 0

462

double star -

23	16.9	16.8	-1	16.8	1, 0
461	17.9	17.9	0	17.9	0, 0
22	16.6	16.7	1	16.6	0, 1
21	15.1	15.1	0	15.1	0, 0
40	16.2:	16.3:	1	16.2:	0, 1
158	17.6	17.6	0	17.6	0, 0
star preceding					
B 16.2	16.9	16.9	0	16.9	0, 0

7 -3

160

B	159	17.8	17.8	0	17.8	0, 0
	129	17.9	17.8	-1	17.8	1, 0
	157	17.2	17.3	1	17.2	0, 1
	160	17.9	17.8	-1	17.8	1, 0
	161	17.6	17.5	-1	17.6	0, 1
	153	17.8	17.9	1	17.8	0, 1
	154	17.5	17.2	-3	17.4	1, 2
	152	17.7	17.8	1	17.8	1, 0
	155	17.4	17.4	0	17.4	0, 0
	463	17.6	17.7	1	17.6	0, 1
	156	16.7	16.6	-1	16.6	1, 0
	173	16.2	16.4	2	16.3	1, 1
	172	17.1	17.3	2	17.2	1, 1
	171	17.0	17.1	1	17.0	0, 1
B	151	16.8	16.8	0	16.8	0, 0

9 -7

Seq R

13810

161

B	149	17.6	17.7	1	17.6	0, 1
	140	17.7	17.9	2	17.8	1, 1
	146	17.6	17.8	2	17.7	1, 1
	147	17.7	17.7	0	17.7	0, 0
	148	17.2	17.2	0	17.2	0, 0
	143	17.8	18.0	2	17.9	1, 1
	144	17.7	17.8	1	17.8	1, 0
	142	17.9	17.9	0	17.9	0, 0
	465	17.9	17.9	0	17.9	0, 0
	141	17.8	17.8	0	17.8	0, 0
	145	17.8	17.9	1	17.8	0, 1
	130	17.9	18.0	1	18.0	1, 0
	131	17.8	17.8	0	17.8	0, 0
	135	17.4	17.3	-1	17.4	0, 1
B	134	17.7	17.7	0	17.7	0, 0

10 -1

162

B	137	17.8	17.7	-1	17.8	0, 1
	136	17.3	17.5	2	17.4	1, 1
	132	17.8	17.9	1	17.8	0, 1
	133	16.4	16.1	-3	16.2	2, 1
	113	17.8	17.9	1	17.8	0, 1
	112	16.6:	16.5:	-1	16.6:	0, 1
	111	16.5	16.4	-1	16.4	1, 0

109 stellar ————

	216	17.5	17.5	0	17.5	0, 0
	150	17.8	17.8	0	17.8	0, 0
	215	17.2	17.3	1	17.2	0, 1
	214	17.5	17.3	-2	17.4	1, 1
	213	17.7	17.7	0	17.7	0, 0
	212	17.9	17.9	0	17.9	0, 0
B	139	17.8:	17.8:	0	17.8:	0, 0

5 - 8

13810

163

Seq, R

B	138	17.7	17.7	0	17.7	0,0
	202	17.3	17.4	1	17.4	1,0
	203	17.7	17.8	1	17.8	1,0
	110	17.1	17.0	-1	17.0	1,0
	108	17.4	17.7	3	17.6	2,1
	107	17.9	17.9	0	17.9	0,0
	106	16.6	16.7	1	16.6	0,1
	105	17.7	17.8	1	17.8	1,0
	201	17.6	17.6	0	17.6	0,0
	199	17.8	17.9	1	17.8	0,1
	198	17.4	17.6	2	17.5	1,1
	197	17.9	18.0	1	18.0	1,0
B	196	17.6	17.4	-2	17.5	1,1
C	30	16.7	16.8	1	16.8	1,0
C	31	17.8	17.9	1	17.8	0,1

C	32	17.8	17.9	1	17.8	0, 1
	33	16.9	17.0	1	17.0	1, 0
st. s.f.	34	17.9	18.0	1	18.0	1, 0
	35	16.9	16.8	-1	16.8	1, 0
	36	17.1	17.3	2	17.2	1, 1
Blemish on top	40	17.7	17.9	2	17.8	1, 1
	41	17.6	17.7	1	17.6	0, 1
	44	Stellar 3				
	45	17.8	17.9	1	17.8	0, 1
	43	17.4	17.4	0	17.4	0, 0
	42	17.8	18.0	2	17.9	1, 1
	47	17.1	17.2	1	17.2	1, 0
	46	17.4	17.5	1	17.4	0, 1
	48	17.9	17.8	-1	17.8	1, 0
C	37	17.8	17.8	0	17.8	0, 0

13 -2

13810

165

Seqs R

C	38	17.8	17.5	-3	17.6	2, 1
	39	16.9	16.9	0	16.9	0, 0
	29	16.2:	16.8:	6	16.5:	3, 3
	28	17.7	17.6	-1	17.6	1, 0
	27	17.8	17.7	-1	17.8	0, 1
	26	17.6	17.7:	1	17.6	0, 1
	25	17.6	17.5	-1	17.6	0, 1
	24	17.9	17.9	0	17.9	0, 0
	23	17.0	17.2	2	17.1	1, 1
	22	17.8	17.8	0	17.8	0, 0
	20	17.9	17.8	-1	17.8	1, 0
	21	16.1	16.2	1	16.2	1, 0
	16	17.8	17.8	0	17.8	0, 0
	17	16.2:	16.4:	2	16.3:	1, 1
C	14	17.5	17.4	-1	17.4	1, 0

6 - 8

C	15	16.3:	16.6:	3	16.4:	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{2}}$
	18	17.4	17.5	1	17.4	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{1}}$
	19	17.6	17.4	-2	17.5	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{1}}$
	12	17.5	17.2	-3	17.4	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{2}}$
	11	17.0	17.1	1	17.0	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{1}}$
	10	17.2	17.0	-2	17.1	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{1}}$
	9	17.2	17.1	-1	17.2	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{1}}$
	8	17.7	17.7	0	17.7	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{0}}$
	7	17.8	Defect			
	6	17.8	17.8	0	17.8	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{0}}$
	5	17.6	17.4	-2	17.5	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{1}}$
	4	16.9	17.0	1	17.0	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{1}}$
	3	17.2	17.2	0	17.2	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{0}}$
	2	17.1	17.0	-1	17.0	$\overset{\vee}{\underset{\vee}{1}}, \overset{\vee}{\underset{\vee}{0}}$
C	1	16.8	16.9	1	16.8	$\overset{\vee}{\underset{\vee}{0}}, \overset{\vee}{\underset{\vee}{1}}$

7 -11

Seq R and T

13810

167

C 108 16.9: 16.9: 0 16.9: 0,0

C 13 17.7 17.8 1 17.8 1,0

Sequence T

✓ B 246 17.2 17.1 -1 17.2 0,1

✓ 244 18.0 18.0 0 18.0 0,0

245 16.4 16.4 0 16.4 0,0

16.2

✓ 243 17.7 17.9 2 17.8 1,1

241 17.4 -Stellar

✓ 200 16.9 16.9 0 16.9 0,0

✓ 242 17.9 18.0 1 18.0 1,0

✓ 247 16.6 16.6 0 16.6 0,0

16.0

✓ 248 17.9 17.7 -2 17.8 1,1

✓ 249 17.8 17.9 1 17.8 0,1

✓ 204 16.2 16.3 1 16.2 0,1

16.0

✓ 205 17.9 18.0 1 18.0 1,0

B ✓ 206 16.5: 16.5: 0 16.5: 0,0

7 -3

✓ B	207	17.9	18.0	1	18.0	1, 0
✓	208	17.3	17.3	0	17.3	0, 0
✓	209	16.8	17.0	2	16.9	1, 1
✓	210	17.8	17.9	1	17.8	0, 1

17.5

211 17.9 — Stellar —

✓	280	17.3	16.8	-5	17.0	3, 2
✓	279	18.0	18.0	0	18.0	0, 0
✓	262	17.6	17.6	0	17.6	0, 0
✓	263	17.7	17.8	1	17.8	1, 0
✓	272	17.7	17.9	2	17.8	1, 1
✓	273	17.8	18.0	2	17.9	1, 1
✓	274	17.6	17.6	0	17.6	0, 0
✓	271	17.3	17.2	-1	17.2	1, 0
✓	466	17.7	17.6	1	17.6	1, 0
B ✓	270	17.7	17.7	0	17.7	0, 0

10 -6

Sequence T

13810

169

B✓261	16.4	16.6	2	16.5	1, 1
✓ 252	17.4	17.4:	0	17.4:	0, 0
✓ 264	17.7	17.6	-1	17.6	1, 0
ft. star n. f.					
✓ 267	16.7:	16.9:	2	16.8:	1, 1
✓ 265	17.7	17.7	0	17.7	0, 0
✓ 266	17.8	17.9	1	17.8	0, 1
✓ 250	16.6	16.7	1	16.6	0, 1
✓ 251	17.8	17.7	-1	17.8	0, 1
✓ 258	17.9	17.9	0	17.9	0, 0
✓ 259	17.8	18.0	2	17.9	1, 1
✓ 260	16.9:	16.8:	-1	16.8:	1, 0
✓ 253	16.6	16.6	0	16.6	0, 0
✓ 254	16.8	16.6	-2	16.7	1, 1
✓ 255	16.8	16.8	0	16.8	0, 0
B✓ 256	17.5	17.6	1	17.6	1, 0
9-5					

170

✓ B 257	17.9	17.8	-1	17.8	1, 0	
✓ 397	16.3	16.3	0	16.3	0, 0	16.1
✓ 398	17.9	17.9	0	17.9	0, 0	
✓ 399	17.4	17.4	0	17.4	0, 0	
✓ 400	17.6:	17.5:	-1	17.6:	0, 1	
✓ 396	16.9	16.8	-1	16.8	1, 0	
✓ 395	17.6	17.5	-1	17.6	0, 1	
✓ 393	17.3	17.3	0	17.3	0, 0	
✓ 392	17.4	17.3	-1	17.4	0, 1	
✓ 391	17.6	17.8	2	17.7	1, 1	
✓ 390	17.5	17.5	0	17.5	0, 0	
✓ 307	17.4	17.2	-2	17.3	1, 1	
✓ 306	17.7	17.8	1	17.8	1, 0	
✓ 305	17.8	17.7	-1	17.8	0, 1	
B ✓ 308	17.6	17.5	-1	17.6	0, 1	
			2 -9			

Sequence T

13810

✓ B 309	17.6	17.6	0	17.6	0, 0	
✓ 310	17.6	17.6	0	17.6	0, 0	
✓ 311	16.7	16.6	-1	16.6	1, 0	(16.7)
✓ 332	17.7	17.8	1	17.8	1, 0	
✓ 331	16.6	16.5	-1	16.6	0, 1	(16.7)
✓ 330	17.4	17.3	-1	17.4	0, 1	
✓ 340	15.8	15.7	-1	15.8	0, 1	15.3
✓ 329	17.2	17.2	0	17.2	0, 0	
✓ 389	17.6	17.7	1	17.6	0, 1	
✓ 388	16.4	16.4	0	16.4	0, 0	too faint 16.0
✓ 387	17.3	17.4	1	17.4	1, 0	
✓ 386	17.6	17.6	0	17.6	0, 0	
✓ 364	17.7	17.6	-1	17.6	1, 0	17.8
✓ 363	15.5	15.3	-2	15.4	1, 1	14.9
h.st. N. Preceding						
B ✓ 362	17.5	17.4	-1	17.4	1, 0	
			6 -6			

172

V3	✓ 385	17.8	17.9	1	17.8	0, 1	
	✓ 268	18.0	17.8	-2	17.9	1, 1	
	✓ 269	17.8	17.9	1	17.8	0, 1	17.7
	✓ 359	17.9	17.8	-1	17.8	1, 0	
	✓ 360	17.5	17.5	0	17.5	0, 0	
	✓ 361	17.6	17.7	1	17.6	0, 1	17.5
	✓ 327	17.7	18.0	3	17.8	1, 2	
	✓ 328	17.7	17.6	-1	17.6	1, 0	
	✓ 326	17.3	17.2	-1	17.2	1, 0	
	✓ 325	17.5	17.4	-1	17.4	1, 0	
	✓ 324	17.5	17.5	0	17.5	0, 0	
	✓ 323	17.2	17.3	1	17.2	0, 1	
	✓ 358	17.6	17.6	0	17.6	0, 0	
	✓ 357	17.5	17.5	0	17.5	0, 0	
B	✓ 322	16.3	16.3	0	16.3	0, 0	16.1
				7 - 6			

Sequence T

13810

B _v 312	17.2	17.3	1	17.2	0.1	
✓ 313	17.8	17.9	1	17.8	0.1	17.5
✓ 321	17.3	17.2	-1	17.2	1.0	
✓ 320	17.8	17.9	1	17.8	0.1	
✓ 319	17.3	17.4	1	17.4	1.0	17.2
✓ 318	17.6	17.6	0	17.6	0.0	
✓ 316	17.7	17.7	0	17.7	0.0	
* B _v 315	17.9	17.9	0	17.9	0.0	
C _v 109	17.7	17.9	2	17.8	1.1	
✓ 52	17.5	17.6	1	17.6	1.0	17.8
✓ 50	17.6	17.7	1	17.6	0.1	
✓ 53	17.7	17.6	-1	17.6	1.0	17.8
✓ 54	17.4	17.4	0	17.4	0.0	
✓ 51	17.7	17.7	0	17.7	0.0	
C _v 55	17.2	17.1	-1	17.2	0.1	

8 - 3

* 314 - Stellar

174

C	✓ 56	16.3	16.4	1	16.4 [✓]	1, 0 [✓]	
	✓ 49	17.4	17.4	0	17.4 [✓]	0, 0 [✓]	
	✓ 57	17.6	17.7	1	17.6 [✓]	0, 1 [✓]	
	✓ 58	17.7	17.8	1	17.8 [✓]	1, 0 [✓]	18.0
	✓ 59	17.7	17.7:	0	17.7 [✓]	0, 0 [✓]	
	✓ 60	17.6	17.8	2	17.7 [✓]	1, 1 [✓]	17.9
	✓ 61	17.2	17.2	0	17.2 [✓]	0, 0 [✓]	
	✓ 62	17.4	17.7	3	17.6 [✓]	2, 1 [✓]	17.9
	✓ 110	17.3	17.3	0	17.3 [✓]	0, 0 [✓]	
	✓ 63	17.5	17.5	0	17.5 [✓]	0, 0 [✓]	
	✓ 64	17.7	17.6	-1	17.6 [✓]	1, 0 [✓]	17.7
	✓ 65	17.5	17.5	0	17.5 [✓]	0, 0 [✓]	
	✓ 66	17.3:	17.3	0	17.3 [✓]	0, 0 [✓]	
	✓ 67	17.9	17.8	-1	17.8 [✓]	1, 0 [✓]	
C	✓ 68	17.2	17.2	0	17.2 [✓]	0, 0 [✓]	
			8 -2				

Sequence T				13810		
C ✓ 69	17.8	17.7	-1	17.8	0, 1	
✓ 70	17.8	17.9	1	17.8	0, 1	18.0
✓ 71	17.4	17.3	-1	17.4	0, 1	
✓ 72	17.6	17.4	-2	17.5	1, 1	
✓ 73	17.6	17.6	0	17.6	0, 0	
✓ 74	17.2	17.2	0	17.2	0, 0	17.0
✓ 75	17.4	17.4	0	17.4	0, 0	
✓ 76	17.6	17.6	0	17.6	0, 0	
✓ 82	17.8	17.8	0	17.8	0, 0	
✓ 83	17.6	17.7	1	17.6	0, 1	
✓ 84	17.9	17.7	-2	17.8	1, 1	
✓ 85	17.9	18.0	1	18.0	1, 0	
✓ 86	17.5	17.6	1	17.6	1, 0	
✓ 87	17.9	17.9	0	17.9	0, 0	
C ✓ 88	17.5	17.4	-1	17.4	1, 0	
			4 -7			

176

C	✓ 89	17.7:	17.6:	-1	17.6:	1, 0	17.8
	✓ 81	17.6	17.4	-2	17.5	1, 1	
	✓ 80	17.2	16.9	-3	17.0	2, 1	
	✓ 78	17.4:	17.2:	-2	17.3:	1, 1	
C	✓ 79	17.5	17.3	-2	17.4	1, 1	
B	✓ 331	16.4	16.7	3	16.6	2, 1	
Sequence S.							
	333	17.3	17.4	1	17.4	1, 0	
	334	17.7	17.7	0	17.7	0, 0	
	335	17.2	17.2	0	17.2	0, 0	
	336	17.6	17.5	-1	17.6	0, 1	
	337	17.4	17.3	-1	17.4	0, 1	
	343	17.6	17.5	-1	17.6	0, 1	
	344	17.5	17.6	1	17.6	1, 0	17.7
	345	17.9	17.9	0	17.9	0, 0	
B	346	17.8	17.8	0	17.8	0, 0	
				5 -13			

Sequence S.

177

B. 317	17.4	17.4	0	17.4 [✓]	0,0 [✓]	
347	17.7	18.0	3	17.8 [✓]	1,2 [✓]	18.0
348	17.6	17.7	1	17.6 [✓]	0,1 [✓]	
349	17.7	17.8	1	17.8 [✓]	1,0 [✓]	
350	17.5	17.6	1	17.6 [✓]	1,0 [✓]	
355	16.9	16.7	-2	16.8 [✓]	1,1 [✓]	
354	17.4	17.5	1	17.4 [✓]	0,1 [✓]	17.5
353	17.9	17.8	-1	17.8 [✓]	1,0 [✓]	
351	17.7	17.7	0	17.7 [✓]	0,0 [✓]	
352	15.7	15.8	1	15.8 [✓]	1,0 [✓]	15.6
458	17.1	17.1	0	17.1 [✓]	0,0 [✓]	17.3
365	17.9	17.8	-1	17.8 [✓]	1,0 [✓]	
366	17.6	17.6	0	17.6 [✓]	0,0 [✓]	
367	17.5	17.4	-1	17.4 [✓]	1,0 [✓]	
B 368	17.6	17.6	0	17.6 [✓]	0,0 [✓]	
8-5						

178

B	369	17.3	17.4	1	17.4 [✓]	1,0 [✓]	
	370	17.3	17.4	1	17.4 [✓]	1,0 [✓]	17.2
	375	17.5	17.5	0	17.5 [✓]	0,0 [✓]	
	379	15.6	15.6	0	15.6 [✓]	0,0 [✓]	15.4 [✓] —
	378	16.5	16.5	0	16.5 [✓]	0,0 [✓]	

~~376 17.8 Stellar 17.8 0,1~~

~~374 out~~

	373	17.5	17.5	0	17.5 [✓]	0,0 [✓]	
	377	17.5	17.5	0	17.5 [✓]	0,0 [✓]	
	381	17.7	17.8	1	17.8 [✓]	1,0 [✓]	
	380	bt. 15.4	15.2:	—			
	372	16.7	16.6	-1	16.6 [✓]	1,0 [✓]	16.3
	371	17.4	17.4 ⁻	0	17.4 [✓]	0,0 [✓]	
	342	17.0	17.3	3	17.2 [✓]	2,1 [✓]	
B	341	17.3	17.4	1	17.4 [✓]	1,0 [✓]	

7 -2

13810

179

B	338	17.4	17.5	1	17.4 [✓]	0,1 [✓]	
	460	17.4	17.6	2	17.5 [✓]	1,1 [✓]	17.4
	339	16.6	16.6	0	16.6 [✓]	0,0 [✓]	
B	384	17.6	17.7	1	17.6 [✓]	0,1 [✓]	
C	99	17.6	17.9	3	17.8 [✓]	2,1 [✓]	
	98	17.5	17.6	1	17.6 [✓]	1,0 [✓]	
	97	17.9	18.0	1	18.0 [✓]	1,0 [✓]	
	96	17.8	17.9	1	17.8 [✓]	0,1 [✓]	
	95	17.8	17.8	0	17.8 [✓]	0,0 [✓]	
	94	17.4	17.4	0	17.4 [✓]	0,0 [✓]	
	91	17.6	17.8	2	17.7 [✓]	1,1 [✓]	
	90	17.6	17.8	2	17.7 [✓]	1,1 [✓]	
	92	17.5	17.4	-1	17.4 [✓]	1,0 [✓]	
	114	17.8	17.7	-1	17.8 [✓]	0,1 [✓]	
C	93	17.9	17.8	-1	17.8 [✓]	1,0 [✓]	

14 -3

180

C	100	17.7	17.7	0	17.7	0, 0	
	101	17.8	17.6	-2	17.7	1, 1	
	102	17.7	17.8	1	17.8	1, 0	
	103	17.4	17.2	-2	17.3	1, 1	17.0
	104	17.6	17.5	-1	17.6	0, 1	
	105	17.5	17.3	-2	17.4	1, 1	
	106	17.8	17.9	1	17.8	0, 1	
	111	17.6	17.5	-1	17.6	0, 1	
	112	17.6	17.6	0	17.6	0, 0	
	97	17.5	17.6	1	17.6	1, 0	
	107	16.3	16.4	1	16.4	1, 0	16.2?
Star preceding							
	113	16.4	16.3	-1	16.4	0, 1	
Seq T) B	356	17.3	17.5	2	17.4	1, 1	
B	394	17.7	17.8	1	17.8	1, 0	
Seq N) B	456	16.7	16.6	-1	16.6	1, 0	

Seq 0)

A 136 17.4 17.5 1 17.4 0, 1

Additional objects found by Reinmuth.

109 15.7 15.9 2 15.8 1, 1

215 16.0 16.2 2 16.1 1, 1

216 16.9 17.1 2 17.0 1, 1

218 16.6 16.5 -1 16.6 0, 1

228 17.1 17.3 2 17.2 1, 1

227 17.2 17.0 -2 17.1 1, 1

Also

220 16.6 16.5 -1 16.6 0, 1

A 67

I.C. etc.		measured
		line
A 10	15.2	
B 55	14.8:	
235	13.9	
"I.C. 3352"	16.8	
B 380	14.8:	
I.C. 773	15.2	
776	15.7:	
782	15.3	
789	15.4	
790	15.8	
I.C. 2 3097	15.9	
3111	15.6	
3115	15.3:	
3118	15.9	
3131-2	15.4	

3134 15.1

3136 15.0 ✓

3151 15.7

3153 16.0

3156 15.4

3167 15.7

3170 15.1

3175 15.8

3211 16.4

*

3225 15.3

3229 15.6

3255 14.9

3259 15.5

3267 15.5

3268 14.4

* 3218 16.5

3271 15.7

3274 15.7

3322 14.8

3357 16.5

3414 14.8

→ 3487 15.51

3517 16.11

3518 16.01

3521 14.4

3430 15.9

186

N.G.C.

4180 ✓ 12.5! ✓ ✓

191 ✓ 14.6 ✓ ✓

197 ✓ 14.0 ✓ ✓

all 207 ✓ 14.5 ✓ ✓

215 13.1 ✓ ✓

224 14.4 ✓ ✓

233 12.5! ✓ ✓

235 12.0! ✓ ✓

241 14.7 ✓ ✓

246 14.9! ✓ ✓

247 15.5 ✓ ✓

249 15.6 ✓ ✓

252 15.2 ✓ ✓

255 13.4 ✓ ✓

257 15.3 ✓ ✓

1381A

187

NGC.

4259 15.0 ✓ ✓

4260 13.0 ✓ ✓

261 too br. ✓

264 14.4 ✓ ✓

268 14.0 ✓ ✓

*

270 12.0 ✓ ✓

273 too large ✓

276 14.9 ✓ ✓

277 15.8 ✓ ✓

281 too br. ✓

282 15.4 ✓

287 16.1 ✓ ✓

(B 388)

292 14.8 ✓ ✓

296 14.5 ✓ ✓

4300 14.6 ✓ ✓

* 4269 15.9 ✓ ✓

88

NGC,

4301 15.4^{✓✓}

4303 too large

307 12.5[✓]309 15.1^{✓✓}316 14.1^{✓✓}318 14.7^{✓✓}

324 too bright

326 15.5^{✓✓}333 15.0^{✓✓}334 14.9^{✓✓}

339 brighter than 12.0

341 14.0^{✓✓}

342 br. than 12.0

343 14.7^{✓✓}4353 14.8^{✓✓}

4356 14.0[✓]360 14.2[✓]365 too[✓] bright[✓]366 15.7[✓]370 14.6[✓]376 14.5[✓]378 too[✓] bright[✓]double. 410 15.3[✓], 15.0[✓]411 15.3[✓]415 14.9[✓]416 14.3[✓]417 too[✓] bright[✓]423 14.4[✓]424 too[✓] bright[✓]4430 13.8[✓]

4432 15.9' ✓

434 12.5: ✓

too br. for accurate measure

442 too bright

445 14.3' ✓

451 too bright

453 15.4' ✓

464 12.7: ✓

465 15.8' ✓

466 14.7' ✓

467 15.2' ✓

469 too bright

470 12.0: ✓

472 too bright

483 12.4: ✓

488 14.0' ✓

4492 14.2[✓] ✓518 15.0[✓] ✓519 13.2[✓] ✓

large

522 13.6[✓] ✓

526 too large + bright

532 too bright

535 too large

4543 14.8[✓] ✓

200

Brighter than 15.9, no correction.
 Original mag. Corrected mag.

$\left\{ \begin{array}{l} 15.95 \\ 16.00 \\ 16.05 \end{array} \right\}$	0	15.95	16.0
	-0.9	15.91	15.9
	-0.7	15.92	15.9
<u>16.10</u>	-0.4	16.06	16.1
$\left\{ \begin{array}{l} 16.15 \\ 16.20 \end{array} \right\}$	-0.3	16.12	16.1
	-0.0	16.20	16.2
$\left\{ \begin{array}{l} 16.25 \\ 16.30 \end{array} \right\}$	+0.2	16.27	16.3
	+0.4	16.34	16.3
$\left\{ \begin{array}{l} 16.35 \\ 16.40 \end{array} \right\}$	+0.6	16.41	16.4
	+0.8	16.48	16.5
$\left\{ \begin{array}{l} 16.45 \\ 16.50 \end{array} \right\}$	+1.0	16.55	16.6
	+1.1	16.61	16.6
$\left\{ \begin{array}{l} 16.55 \\ 16.60 \end{array} \right\}$	+1.3	16.68	16.7
	+1.4	16.74	16.7
$\left\{ \begin{array}{l} 16.65 \\ 16.70 \end{array} \right\}$	+1.5	16.80	16.8
	+1.6	16.86	16.9

Fainter than 16.7 +.2 correction.

Magnitude Sequences.

Magnitudes adopted for A 6719.

And corrected as shown on preceding page.

Sequence 80K-MW. transferred by double exposure MC plate (40 minutes on 80K, 40 minutes on region of A6719). Called 80I. Sequences extrapolated beyond 16^m magnitude.

Sequence 80 I		80 I a	80 I b
1)	12.6	a)	15.9
2)	13.0	b)	16.6
3)	13.4	c)	17.3
4)	13.9	d)	17.9
5)	14.3		
6)	14.7		
7)	15.0	80 I c	80 I d
8)	15.5	l)	16.0
9)	15.5	m)	16.8
10)	15.7	n)	17.4
11)	16.5	o)	18.0
12)	17.2		
13)	17.8		
		80 I e	
		u)	16.0
		w)	16.5
		x)	17.2
		z)	17.8

A 6718. (and 13810.)

Bright extension of 80 p. on Me 22358 for
transfer onto A & N 13810

- 2. 12.6
- 3. 13.1
- 4. 13.4
- 5. 14.2
- 6. 14.6
- 7. 15.0 (corrected)

MC 22358
sequence

long exposure (60^m)
& beyond the 16th

		802
8	r	15.8
5	s	16.2
6.9	t	16.6
17.3	u	17.0
17.8	w	17.3
18.0	x	17.7
	y	18.2

G
infer to 6720)

15.9

16.4

16.6

17.2

17.5

7) 17.6

8) 17.9

for transfer to 13810

1 15.7

2 16.1

3 16.3

4 16.7

5 17.0

6 17.4

7 17.7

8 17.9

Sequences for A 6718
6719
6720
13810

211

Please replace cards in index ^{of record} ~~book~~
books. Cards are catalogued in order of red
number in upper left corner.

long exposure (60^m)
beyond the 16th

	802
r	15.8
s	16.2
t	16.6
u	17.0
w	17.3
x	17.7
y	18.2

G
for transfer to 6720)

- 1) 15.9
- 2) 16.4
- 3) 16.6
- 4) 17.2
- 5) 17.5
- 6) 17.6
- 7) 17.9

- for transfer to 13810
- 1 15.7
 - 2 16.1
 - 3 16.3
 - 4 16.7
 - 5 17.0
 - 6 17.4
 - 7 17.7
 - 8 17.9

Magnitudes adopted for A 6718.

Sequence 80 K-MW. transferred by estimate on long exposure (60^m)
(22358) MC plate centred S. of sequence. Extrapolated beyond the 16th
magnitude. MC 22358.

	80 a	80 b	80 c	80 d	80 e
✓ 1	12.7	7) 14.8	7) 15.1	l 15.8	r 15.8
✓ #3	13.43	8) 15.3	8) 15.6	m 16.5	s 16.2
✓ #4	14.0	9) 15.8	9) 15.7	n 16.9	t 16.6
✓ #5	14.2	10=a) 16.2	10=e) 16.4	o 17.3	u 17.0
✓ #6	14.6	b) 16.6	g) 17.0	p 17.8	w 17.3
✓ #7	14.9	f) 17.0	h) 17.3	q 18.0	x 17.7
✓ #8	15.3	c) 17.6	j) 17.9		z 18.2
#9	15.7	d) 18.0			

#10 Hemished on A plate

#10a 16.3

11 16.8

12 17.6

13 18.0

11a 16.9

11b 17.345

11c 17.1

80 f

5) 16.6

1) 17.0

2) 17.4

3) 17.7

4) 17.9

G
(for transfer to 6720)

1) 15.9

2) 16.4

4) 16.6

5) 17.2

6) 17.5

7) 17.6

8) 17.9

N
for transfer to 13810

1 15.7

2 16.1

3 16.3

4 16.7

5 17.0

6 17.4

7 17.7

8 17.9

H' for bright mags.

MC 21918

on A6720.

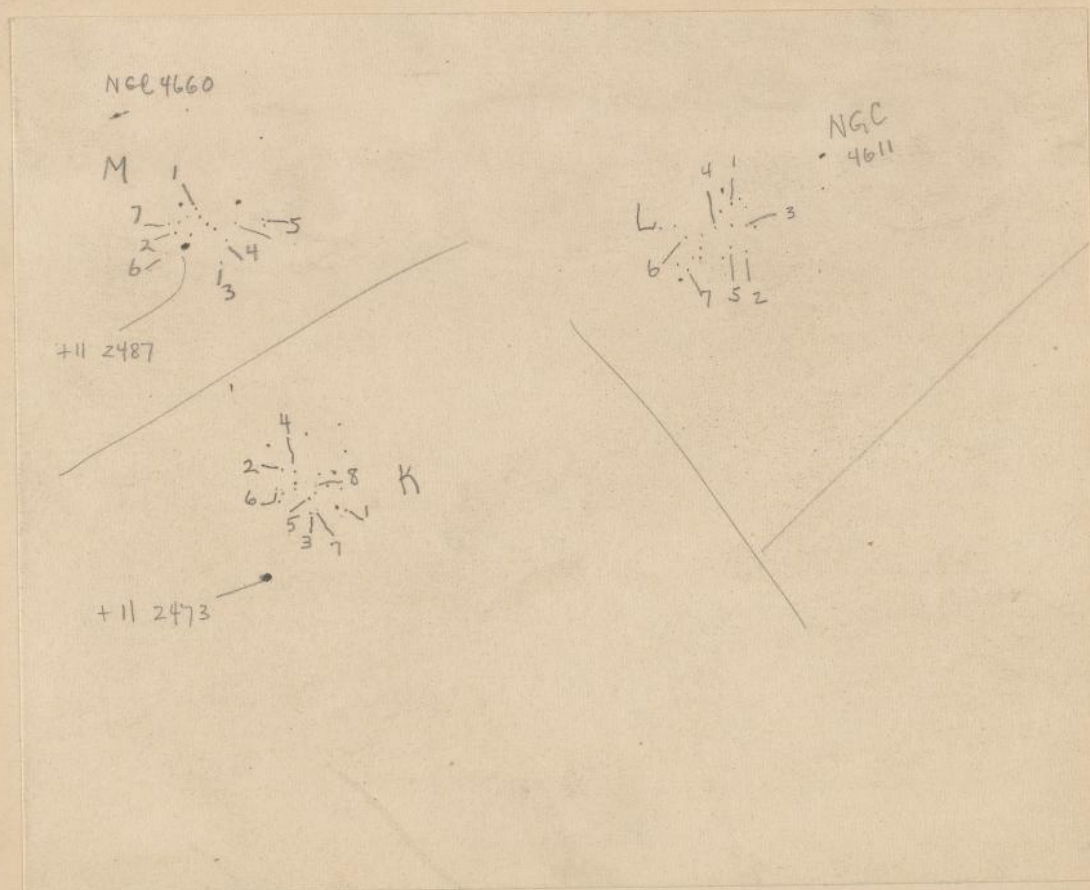
I plates

- 2) 12.8
 3) 13.3
 4) 13.8
 5) 14.4
 6) 14.6
 7) 14.8
 8) 15.2
 9) 15.6

13.8

14.0

14.6



magnitudes adopted for A6720.

G.	H	L
1) 15.9	1) 16.0	1) 16.0
2) 16.4	2) 16.4	2) 16.6
3) —	3) 16.7	3) 16.8
4) 16.6	4) 17.1	4) 17.1
5) 17.2	5) 17.5	5) 17.5
6) 17.5	6) 17.8	6) 17.7
7) 17.6	7) 18.1	7) 17.9
8) 17.9		

K	M
1) 16.1	1) 16.3
2) 16.5	2) 16.5
3) 16.7	3) 16.7
4) 17.0	4) 16.9
5) 17.3	5) 17.2
6) 17.6	6) 17.6
7) 17.8	7) 17.9
8) 18.1	

A 13810 bright magnitude for N.
(measured on MC 21913)

9	12.2	(On A13810.)
10	12.6	
11	13.1	
12	13.4	
13	13.9	
14	14.4	
15	14.9	
16	15.2	15.3
1	15.7	
2	16.0	

U for bright magnitudes:

Measured on B 33772

1	12.0	
2	13.1	
3	13.6	
4	13.9	
5	14.3	14.4
6	14.7	14.5
7	14.9	14.9
8	15.2	
9	15.6	15.5
10		

Magnitudes adopted for A 613810

N	O	P
1) 15.7	12 15.5	12 15.2
2) 16.1	2 15.9	2 15.8
3) 16.3	3 16.4	3 16.1
4) 16.7	4 16.8	4 16.5
5) 17.0	5 17.1	5 16.8
6) 17.4	6 17.3	6 17.1
7) 17.7	7 17.5	7 17.4
8) 17.9	8 17.7	8 17.65
	9 18.0	9 17.8
		10 18.0
R	S	T
1 15.3	11	1 15.7
2 15.8	2 15.8	2 16.1
3 16.3	3 16.2	3 16.6
4 16.6	4 16.6	4 16.8
5 16.9	5 16.9	5 17.1
6 17.1	6 17.2	6 17.4
7 17.4	7 17.5	7 17.7
8 17.6	8 17.6	8 17.85
9 17.8	9 17.8	9 18.0
10 18.1		10

Sequences taken from MW selected area 80.

	Mag.	MW. no.	
1)	12.8	12	
2)	13.1	95	
3)	13.3	109	
4)	13.5	97	H.S.
5)	14.1	45	14.2-3
6)	14.8	5	
7)	15.3	39	
8)	15.6	93	
9)	15.9	90	
10)	16.3	65	
	16.5	54	
	17.0	77	
	17.5	89	
	17.6	81	
	17.7	87	
	17.4	82	
	17.98	83	

1927phae.proj.231.58

