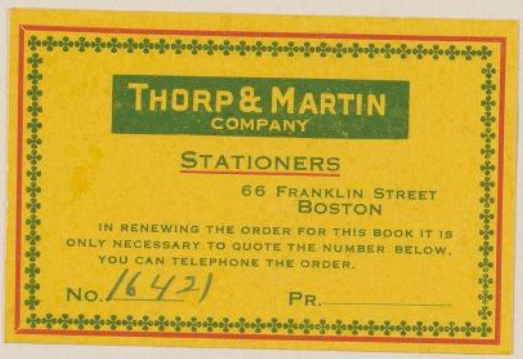
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MAGNITUDES OF CLUSTERS OF NEBULAE

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8

+40 0

SUPERSEDED BY MEASURES ON A15974 (P. 151)

(A 7374)

CF. A15974 FOR ADDITIONAL NEBULAE IN THIS CLUSTER.

Total No Nebulae = ~~109~~ 83 ✓ 16 9 +17.6 Cluster near edge: Sequence fairly close to cluster

	No New Nebulae	A7374 Mag MEM.	A7374 Mag 2nd Measure MEM.	Mean	Residuals	Remarks
Omitted in revised area: cf. A15974 Checked by S.F.M. as nebula H.S.: Thinks this a star →	a	16.6	16.7	16.7	1, 0	
	b 71	16.1:	16.0:	16.0	1, 0	Attached to N6040. N.G.C. calls this object a faint star, but it appears nebulous on this plate.
	11 c	16.7	16.8	16.7	0, 1	
	~~d~~	~~16.6~~	~~16.7~~	~~16.6~~	~~0, 1~~	star cf. 15974
Omitted in revised area: cf. A15974	45	17.2	17.2	17.2	0, 0	Nebula?
	14 47	17.0	17.0	17.0	0, 0	
	15 48	16.1	16.2	16.1	0, 1	
Omitted in revised area: cf. A15974	54	16.0	15.9	16.0	0, 1	
Omitted in revised area: cf. A15974	55	15.7	15.7	15.7	0, 0	
~~Omitted in revised area: cf. A15974~~ Omitted in revised area: cf. A15974	46 56	16.2:	16.4:	16.3:	1, 1	Film badly scratched.
	57	15.9	15.6	15.7	2, 1	
	45 59	16.2	16.3	16.2	0, 1	
	44 60	16.6:	16.6:	16.6:	0, 0	Scratch touches image
	88 61	16.7	16.7	16.7	0, 0	
	~~62~~	~~16.9:~~	~~16.9:~~	~~16.9~~	~~0, 0~~	star cf. 15974 ~~Scratch runs thru image~~
	~~63~~	~~17.1~~	~~17.1~~	~~17.1~~	~~0, 0~~	star: cf. A15974
	51 64	16.5	16.4	16.5	0, 1	
	48 65	16.7:	16.8:	16.8	1, 0	Faint star attached
	50 66	17.0	17.1	17.1	1, 0	
	92 67	17.2	17.3	17.2	0, 1	
	84 68	17.0	17.0	17.0	0, 0	
	83 69	17.3	17.4:	17.3	0, 1	Nebula? Looks like defective film.
	83a 70	16.6:	16.8:	16.7:	1, 1	Nebula? Scratch runs thru image.
	81 71	16.3	16.5	16.4	1, 1	
	80 72	16.7	15.8	15.8	1, 0	

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77	73	16.1	16.2	16.1	0,1	
76	74	17.0	17.1	17.0	0,1	
	~~75~~	~~16.6:~~	~~16.5:~~	~~16.5:~~	~~1,0~~	~~Scratch touches image.~~ star of 15974
12	76	16.8	16.8	16.8.	0,0	
10	77	16.7:	16.6:	16.6:	1,0	Scratch runs thru image.
24	78	17.0	17.0	17.0	0,0	Faint scratch thru image.
23	79	15.6	16.0	15.8	2,2	
27	80	16.3	16.2	16.3	0,1	
29	82	17.1	17.2	17.2	1,0	Nebula?
89	83	17.1	17.1	17.1	0,0	
Omitted in revised area of A15974	~~84~~	~~16.0~~	~~15.7~~	~~15.9~~	~~1,2~~	~~Nebula?~~ star of 15974
	86	16.9	17.0	17.0	1,0	Faint star close.
20	88	16.8	16.7	16.7	1,0	
26	89	16.4	16.2	16.3	1,1	
68	90	16.6	16.6	16.6	0,0	
86	91	16.9	16.7	16.8	1,1	
47	92	17.2	17.2	17.2	0,0	Nebula?
	~~93~~	~~17.0~~	~~17.0~~	~~17.0~~	~~0,0~~	~~star of 15974~~
	~~94~~	~~16.7~~	~~16.7~~	~~16.7~~	~~0,0~~	~~..~~ ~~..~~
	~~95~~	~~16.9~~	~~16.9~~	~~16.9~~	~~0,0~~	~~..~~ ~~..~~
	~~96~~	~~16.7~~	~~16.6~~	~~16.6~~	~~1,0~~	~~..~~ ~~..~~
82	102	17.2	17.2	17.2	0,0	
79	103	17.1:	17.1:	17.1:	0,0	Bright star close.
78	104	16.6:	16.7:	16.7:	1,0	Scratch runs thru image.

Menzel

87	1559+1809.6	17.0	17.0	17.0	0,0	
49	1559+1816.2	17.0	17.0	17.0	0,0	
56	1600+1758.3	16.4	16.6	16.5	1,1	
58	1600+1759.6	17.0	17.2	17.1	1,1	
69	1600+1810.0	16.0:	16.0:	16.0:	0,0	Attached to N6041.

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59	1600 + 1802.0	15.8	15.8	15.8	0,0	
	~~1600+1803.2~~	~~16.3~~	~~16.4~~	~~16.4~~	~~1,0~~	star of 15974
90	1600+1808.0	16.5	16.6	16.5	0,1	
52	1600+1811.1	16.8	16.5	16.6	2,1	
42	1600+1837.2	16.7	16.8	16.7	0,1	
75	1601+1752.6	16.5	16.4	16.4	1,0	
	~~1601+1813.0~~	~~16.7~~	~~16.7~~	~~16.7~~	~~0,0~~	star of 15974
28	1601+1813.8	16.5	16.5	16.5	0,0	
31	1601+1817.7	16.5	16.5	16.5	0,0	Faint scratch thru image.
	~~1601+1818.5~~	~~16.8~~	~~17.0~~	~~16.9~~	~~1,1~~	retain, but question. of. 15974
85	1601+1820.0	16.1:	16.3:	16.2:	1,1	Scratch runs thru image.
30	1601+1821.8	16.9	17.0	16.9	0,1	Faint scratch thru image.
	~~1601+1823.2~~	~~17.3~~	~~17.2~~	~~17.2~~	~~1,0~~	star of 15974
35	1601+1828.3	16.6	16.3	16.5	1,2	
38	1601+1829.9	16.4:	16.1:	16.2:	2,1	Scratch runs thru image.
41	1601+1833.2	16.5	16.2	16.3	2,1	
13	1602+1744.4	16.0	15.9	16.0	0,1	
18	1602+1803.2	16.4	16.3	16.3	1,0	
91	1602+1809.9	16.0	15.9	16.0	0,1	
25	1602+1817.7	16.1	16.1	16.1	0,0	
	I.C.					
72	1170	16.5	16.6	16.5	0,1	
	~~1171~~	~~16.2:~~	~~16.1:~~	~~16.2:~~	~~0,1~~	Scratch runs thru image. cf: A15974 star
	~~1173~~	~~15.8~~	~~16.0~~	~~15.9~~	~~1,1~~	definitely stellar of. 15974
	~~1175~~	~~16.0~~	~~16.0~~	~~16.0~~	~~0,0~~	star or wrong identification
	~~1176~~	~~17.0:~~	~~17.1:~~	~~17.1:~~	~~1,0~~	Scratch thru image. Possibly a star of. 15974
43	1177	16.3	16.4	16.4	1,0	
N.6053	1180	15.5	15.5	15.5	0,0	= N6053
57	1181	15.4	15.4	15.4	0,0	
60	1182	15.8	15.8	15.8	0,0	

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54	1183	16.0	16.0	16.0	0,0	
53	1184	15.2	15.3	15.3	1,0	
55	1185	15.1	15.2	15.2	1,0	
17	1186	16.0	16.1	16.1	1,0	
16	1188	16.2	16.0	16.1	1,1	
34	1189	15.3	15.7	15.5	2,2	
36	1190	16.6:	16.6:	16.6:	0,0	I 1191 attached.
	~~1191~~	~~17.0:~~	~~16.8:~~	~~16.9:~~	~~1,1~~	~~I 1190 attached.~~ star; cf. A15974
22	1192:	16.8:	16.7:	16.8:	0,1	Identification uncertain. Scatch through image.
21	1193	15.9	16.1	16.0	1,1	
19	1194:	15.5	15.8	15.7	2,1	Identification uncertain. d.N. cf. 15974
Omitted in revised area: cf. A15974	1195	15.6	15.8	15.7	1,1	
	N.G.C.					
	~~6039:~~	~~16.8~~	~~16.8~~	~~16.3~~	~~0,0~~	~~Identification uncertain.~~ definitely stellar cf. 15974
70	6040	16.4:	16.6:	16.5:	1,1	New nebula b attached.
73	6041	16.5:	16.7:	16.6:	1,1	Menzel 1600+1800.0 attached.
74	6042	16.1:	16.2:	16.2:	1,0	Scratch touches image.
66	6043	15.6	15.9	15.7	1,2	
65	6044	15.5	15.7	15.6	1,1	
67	6045	15.8	16.0	15.9	1,1	
62, 63, 64	6050	16.0	16.2	16.1	1,1	
40	6053	15.5	15.2	15.4	1,2	
61	6054	16.4	16.4	16.4	0,0	
39	6055	15.9	16.1	16.0	1,1	
32	6056	15.5	15.6	15.5	0,1	
33	6057:	16.2	16.6	16.4	2,2	Identification uncertain.
37	6061	15.3	15.2	15.2	1,0	

N.B:- It should be remembered that none of the new nebulae are certain, as there is no check plate, and this plate is very poor.

Cluster completely checked by S.F.M, using A15974

(Next page)

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Note the following:

I.C. 1172 = N 6044

I.C. 1178 - not seen.

I.C. 1179 = N 6050

N. 6047 - not seen.

Menzel:

1559 + 1801.8 = N 6040

1600 + 1758.8 = N 6042

1600 + 1801.9 = N 6050

1601 + 1802.6 = I 1183

1601 + 1802.8 = N 6054

1601 + 1804.6 = I 1182

1601 + 1814.4 = N 6056

1601 + 1826.2 = N 6053

1601 + 1826.6 = N 6055

1602 + 1759.6 = I 1193

1602 + 1803.0 = I 1192

1602 + 1803.2 = I 1194

1602 + 1832.7 = I 1191

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A 13719 (8 x 10)

13 Neb. in cluster 13 21 -42.5 Sequence fairly close to cluster.

No	A13719 Mag. m e m	A13719 2nd measure Mag. m e m.	Mean	Residuals	Remarks
a	17.2	17.3	17.3	1,0	
b	17.3	17.4	17.4	1,0	
1	14.8	15.1	14.9	1,2	
141:?→ 2	16.2	16.3	16.2	0,1	
5	15.0	15.3	15.1	1,2	
6	16.0	16.1	16.0	0,1	
9	16.4	16.3	16.3	1,0	
72	16.1	16.2	16.2	1,0	
73	17.3	17.4	17.3	0,1	
74	14.0	14.3	14.2	2,1	
N.G.C. 5086	12.9:	13.0:	12.9:	0,1	Defective image.
5090	12.4	12.8	12.6	2,2	
5091	14.4	14.5	14.4	0,1	

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12 ✓

-50 248

A 14265 [180m]

Total no. nebulae = 41 ✓ 2 50 -62.5 Cluster and sequence both in center.

No.	A 14265 Mag mem	A 6586 [242m] Mag mem.	Mean	Residuals	Remarks
226	17.2	17.4	17.3	1, 1	
227	16.3	16.1	16.2	1, 1	
227a	18.2	*18.1	18.1	1, 0	
228	17.9	*17.8	17.8	1, 0	
229	18.0	18.0	18.0	0, 0	
229a	18.1	18.1	18.1	0, 0	
230	16.6	17.0	16.8	2, 2	
231	18.1	*18.0	18.1	0, 1	
232	17.8	17.9	17.8	0, 1	
233	18.3	18.0	18.1	2, 1	Nebula?
234	18.1	17.9	18.0	2, 1	
235	17.7	17.3	17.5	2, 2	
236	17.3	17.0	17.1	2, 1	
237	17.8	17.9	17.8	0, 1	
237a	18.2	*18.1	18.1	1, 0	
238	17.0	16.8	16.9	1, 1	
239	17.6	17.4	17.5	1, 1	
240	17.2	17.1	17.2	0, 1	
241	16.7	16.7	16.7	0, 0	
242	18.2	18.1	18.1	1, 0	
243	18.1	18.0	18.0	1, 0	Nebula?
244	18.0	17.9	17.9	1, 0	
245	16.2	16.1	16.2	0, 1	
246	18.3	18.2	18.3	0, 1	Nebula?
247	16.7	16.6	16.6	1, 0	
248	17.7	18.0	17.9	2, 1	

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248a	18.0	18.0	18.0	0,0	
249	17.1	17.1	17.1	0,0	
250	17.5	17.9	17.7	2,2	
251	17.9	17.9	17.9	0,0	
252	17.9	17.5	17.7	2,2	
253	16.9	17.2	17.0	1,2	
254	18.0	18.0	18.0	0,0	
255	18.4:	* 18.4:	18.4:	0,0	Nebula?
256	16.7	16.6	16.7	0,1	
257	17.4	17.7	17.6	2,1	
258	16.9	17.1	17.0	1,1	
259	18.2	* 18.1	18.1	1,0	
260	18.0	* 18.1	18.0	0,1	
261	18.2:	* 18.3:	18.3:	1,0	Nebula?
262	16.3	16.2	16.2	1,0	

* Too faint to measure on A6586; second measure therefore made on A14265.

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-50 230

A14269

3 32 -52.4

Both clusters near center where sequence is marked.

No	A14269 1st measure Mag	A14269 2nd measure Mag	Mean	Residuals	Remarks
630 Total Cluster No.1					
154	16.6	16.5	16.5	1,0	
154a	17.5	17.6	17.6	1,0	
155	16.4	16.4	16.4	0,0	Nebula?
156	16.7	16.7	16.7	0,0	
157	17.5	17.5	17.5	0,0	
158	17.2	17.2	17.2	0,0	
159	17.4	17.6	17.5	1,1	
160	17.1	17.0	17.1	0,1	
161	17.0	16.9	17.0	0,1	
162	17.3	17.5	17.4	1,1	
163	17.3	17.4	17.3	0,1	
165	17.6	17.5	17.6	0,1	
166	17.4	17.6	17.5	1,1	
167	17.3:	17.4:	17.3:	0,1	Nebula? Star attached.
168	17.1	17.0	17.0	1,0	
169	17.3	17.4	17.3	0,1	
170	17.4	17.5	17.4	0,1	
171	17.1	17.0	17.1	0,1	
173	17.2	17.2	17.2	0,0	
174	17.5	17.5	17.5	0,0	
175	17.6	17.5	17.6	0,1	
176	16.5	16.5	16.5	0,0	
177	17.4	17.5	17.5	1,0	
178	17.4	17.4	17.4	0,0	
179	17.0	17.1	17.1	1,0	
180	16.4	16.3	16.3	1,0	

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181	17.4	17.4	17.4		0,0
182	17.7	17.7	17.7		0,0
183	16.5	16.4	16.4		1,0
184	17.1	17.3	17.2		1,1
185	17.2	17.1	17.1		1,0
186	17.4	17.5	17.4		0,1
187	16.6	16.4	16.5		1,1
188	17.3	17.4	17.3		0,1
189	17.5	17.5	17.5		0,0
190	17.6	17.6	17.6		0,0
233	16.8	17.1	17.0		2,1
234	17.6	17.6	17.6		0,0
235	17.7	17.7	17.7		0,0
236	17.3	17.4	17.3		0,1
237	17.7	17.7	17.7		0,0
240	17.1	17.5	17.3		2,2
240a	16.6	16.6	16.6		
241	17.4	17.4	17.4		0,0
242	17.8	17.4	17.6		2,2
243	17.4	17.3	17.4		0,1
244	17.3	17.1	17.2		1,1
245	17.0	16.8	16.9		1,1
246	17.4	17.4	17.4		0,0
247	17.4	17.4	17.4		0,0
248	17.5	17.5	17.5		0,0
249	17.7	17.7	17.7		0,0
250a	17.2:	17.4:	17.3:		1,1
250b	17.4	17.4	17.4		
251	17.5	17.5	17.5		0,0
252	16.4	16.3	16.3		1,0
253	17.0	16.9	17.0		0,1
254	17.4	17.5	17.5		1,0

Star attached. double

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255	16.8	16.8	16.8	0,0	
256	17.1	17.3	17.2	1,1	
257	17.0	17.1	17.0	0,1	
258	17.0	17.1	17.1	1,0	
259	16.9	17.1	17.0	1,1	
260	17.4	17.4	17.4	0,0	
261	16.5	16.7	16.6	1,1	
262	17.0	17.1	17.0	0,1	
263	17.3	17.2	17.3	0,1	
264	17.2	17.4	17.3	1,1	
265	17.7	17.7	17.7	0,0	
266	17.6	17.6	17.6	0,0	
267	16.9	17.0	17.0	1,0	
268	17.7	17.6	17.7	0,1	
269	17.1	17.0	17.0	1,0	
270	17.1	17.0	17.1	0,1	
271	17.6	17.6	17.6	0,0	
271a	17.2	17.2	17.2	0,0	
272	17.2	17.3	17.2	0,1	
272a	17.1	17.1	17.1	0,0	
273	17.2	17.5	17.3	1,2	
274	16.6	16.8	16.7	1,1	
276	17.4:	17.5:	17.5:	1,0	Attached to no. 277
277	17.5:	17.4:	17.4:	1,0	Attached to no. 276
278	17.4	17.5	17.5	1,0	
279	17.2	17.5	17.4	2,1	
323	16.7	16.7	16.7	0,0	
324	17.7	17.6	17.7	0,1	
325	16.1	16.3	16.2	1,1	
326	16.4	16.5	16.4	0,1	

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1932phae.proj.234PM

327	16.9	17.1	17.0	1,1	
328	17.5	17.6	17.5	0,1	
329	17.7:	17.5:	17.6:	1,1	Attached to No. 94 (from A3346)
441	17.3	17.4	17.4	1,0	
442	17.5	17.6	17.5	0,1	
443	17.7	17.6	17.6	1,0	
444	17.2	17.2	17.2	0,0	
445	16.9	16.9	16.9	0,0	
446	17.7	17.7	17.7	0,0	Nebula?
447	17.3	17.5	17.4	1,1	Double?
448	17.1	17.5	17.3	2,2	
449	17.4	17.4	17.4	0,0	
450	17.7	17.7	17.7	0,0	
451	17.1	17.1	17.1	0,0	
452	17.0	17.2	17.1	1,1	
453	17.4	17.5	17.5	1,0	
454	17.2	17.4	17.3	1,1	
455	17.1	17.1	17.1	0,0	
456	16.5	16.5	16.5	0,0	
457	17.6	17.6	17.6	0,0	
458	17.6	17.7	17.6	0,1	Nebula?
459	17.1	17.5	17.3	2,2	
460	17.4	17.4	17.4	0,0	
461	16.9	17.0	17.0	1,0	
462	17.7	17.6	17.7	0,1	
463	17.5	17.5	17.5	0,0	
464	17.1	17.0	17.0	1,0	
465	17.4	17.6	17.5	1,1	
466	17.7	17.7	17.7	0,0	
467	17.1	17.3	17.2	1,1	

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468	16.8	16.9	16.9	1,0	
469	17.5	17.5	17.5	0,0	
470	17.7	17.6	17.6	1,0	Nebula?
471	17.5	17.5	17.5	0,0	
472	17.2	17.4	17.3	1,1	
473	17.0	17.3	17.1	1,2	
474	17.3	17.3	17.3	0,0	
475	17.3	17.4	17.4	1,0	
476	17.4	17.5	17.5	1,0	
477	16.9	16.9	16.9	0,0	
478	16.5:	16.6:	16.6:	1,0	Attached to I 1942.
479	16.5	16.5	16.5	0,0	
480	16.7	16.8	16.7	0,1	
481	17.5	17.6	17.6	1,0	Nebula?
482	17.3	17.5	17.4	1,1	
482a	17.1	17.1	17.1	0,0	
483	16.3	16.5	16.4	1,1	
484	17.0	17.0	17.0	0,0	
485	17.6	17.6	17.6	0,0	
486	17.2	17.0	17.1	1,1	
487	16.9	16.9	16.9	0,0	
488	17.7	17.7	17.7	0,0	
503	17.7	17.5	17.6	1,1	
504	17.7	17.7	17.7	0,0	
505	17.0	17.0	17.0	0,0	
505a	17.6	17.6	17.6	0,0	
506	17.4	17.0	17.2	2,2	
507	17.6	17.7	17.7	1,0	
508	17.6	17.7	17.6	0,1	
509	17.0	17.0	17.0	0,0	

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510	17.6	17.7	17.7	1,0	
511	17.5	17.6	17.6	1,0	
512	17.4	17.5	17.5	1,0	
513	17.8	17.7	17.8	0,1	Nebula?
514	17.2	17.5	17.4	2,1	
515	17.4	17.5	17.5	1,0	
516	17.5	17.5	17.5	0,0	
517	17.0	16.7	16.8	2,1	
518	17.4	17.4	17.4	0,0	
519	17.6	17.6	17.6	0,0	
520	17.6	17.6	17.6	0,0	
521	17.5	17.6	17.5	0,1	
522	17.4	17.5	17.4	0,1	
523	16.9	16.9	16.9	0,0	
524	16.9	16.9	16.9	0,0	
525	17.1	17.0	17.1	0,1	
526	17.6	17.5	17.6	0,1	
527	17.2	17.1	17.1	1,0	
528	16.9	16.9	16.9	0,0	
529	16.7	16.7	16.7	0,0	
530	17.4	17.4	17.4	0,0	
531	17.3	17.3	17.3	0,0	
532	17.5	17.5	17.5	0,0	
533	17.4	17.4	17.4	0,0	
534	17.6	17.5	17.6	0,1	
534a	17.6	17.5	17.5	1,0	
535	17.1	17.2	17.2	1,0	
536	17.4	17.4	17.4	0,0	
537	17.0	17.2	17.1	1,1	
538	17.5	17.5	17.5	0,0	

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539	17.3	17.3	17.3	0,0
540	17.7	17.6	17.7	0,1
541	17.4	17.5	17.4	0,1
542	17.2	17.3	17.3	1,0
543	17.6	17.6	17.6	0,0
544	17.5	17.5	17.5	0,0
545	17.6	17.6	17.6	0,0
546	17.5	17.5	17.5	0,0
547	17.6	17.6	17.6	0,0
548	17.1	17.1	17.1	0,0
549	17.2	17.2	17.2	0,0
550	17.6	17.6	17.6	0,0
551	16.5	16.6	16.6	1,0
552	17.5	17.5	17.5	0,0
553	16.9	17.1	17.0	1,1
554	17.5	17.5	17.5	0,0
555	16.8	17.1	16.9	1,2
556	16.6	16.8	16.7	1,1
557	17.4	17.1	17.2	2,1
558	17.2	17.4	17.3	1,1
559	16.8	16.5	16.7	1,2
560	17.4	17.5	17.4	0,1
561	17.0	17.2	17.1	1,1
562	17.0	17.0	17.0	0,0
563	17.5	17.5	17.5	0,0
564	17.5	17.5	17.5	0,0
565	17.6	17.6	17.6	0,0
~~566~~	~~16.9~~	~~17.0~~	~~16.9~~	~~2,1~~ rejected Ismf
567	17.5	17.5	17.5	0,0
568	17.1	17.2	17.2	1,0

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569	17.5	17.6	17.5	0,1
570	17.5	17.7	17.6	1,1
571	17.3	17.3	17.3	0,0
572	16.7	16.6	16.6	1,0
573	17.1	17.0	17.1	0,1
574	17.2	17.5	17.4	2,1
575	17.4	17.4	17.4	0,0
576	17.3	17.5	17.4	1,1
577	17.7	17.6	17.7	0,1
578	15.1	15.2	15.2	1,0
579	16.8	16.7	16.7	1,0
580	17.4	17.3	17.4	0,1
581	17.5	17.5	17.5	0,0
582	17.1	17.0	17.1	0,1
583	17.5	17.6	17.6	1,0
584	17.3	17.4	17.3	0,1
585	17.5	17.4	17.4	1,0
586	17.7	17.7	17.7	0,0
587	17.0	17.0	17.0	0,0
588	17.1	16.9	17.0	1,1
589	17.2	17.4	17.3	1,1
590	17.4	17.5	17.5	1,0
591	17.3	17.3	17.3	0,0
592	17.2	17.1	17.2	0,1
593	17.4	17.4	17.4	0,0
594	17.5	17.6	17.5	0,1
595	17.3	17.3	17.3	0,0
596	16.5	16.9	16.7	2,2
619	17.4	17.5	17.4	0,1
620	17.0	17.0	17.0	0,0

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621	17.6	17.6	17.6	0,0
622	16.4	16.5	16.5	1,0
623	16.4	16.4	16.4	0,0
624	17.6	17.6	17.6	0,0
625	17.4	17.6	17.5	1,1
626	17.4	17.5	17.4	0,1
627	17.4	17.5	17.5	1,0
628	17.3	17.3	17.3	0,0
629	17.1	17.0	17.0	1,0
630	17.4	17.5	17.5	1,0
631	17.0	17.1	17.0	0,1
632	16.7	16.7	16.7	0,0
633	16.4	16.5	16.5	1,0
634	17.0	17.0	17.0	0,0
635	16.9	17.1	17.0	1,1
635a	17.1	17.1	17.1	0,0
636	17.2	17.0	17.1	1,1
637	17.2	17.1	17.2	0,1
638	17.4	17.1	17.3	1,2
639	17.0	16.9	17.0	0,1
640	17.6	17.6	17.6	0,0
641	17.3	17.5	17.4	1,1
642	16.4	16.5	16.5	1,0
642a	17.5	17.5	17.5	0,0
643	17.3	17.5	17.4	1,1
644	17.4	17.6	17.5	1,1
645	17.3	17.5	17.4	1,1
646	17.6	17.6	17.6	0,0
647	17.4	17.4	17.4	0,0
648	17.6	17.5	17.5	0,0

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1932phae.proj.231M

649	17.6	17.6	17.6	0,0	
650	16.5	16.8	16.6	1,2	
651	17.3	17.2	17.3	0,1	
652	17.5	17.5	17.5	0,0	
653	17.7	17.7	17.7	0,0	
654	16.1	16.3	16.2	1,1	
655	17.5	17.5	17.5	0,0	
656	17.4	17.6	17.5	1,1	
656a	17.4	17.6	17.5	1,1	
657	16.8	17.0	16.9	1,1	
658	16.9	17.1	17.0	1,1	
659	17.1	17.4	17.2	1,2	
660	17.1	17.3	17.2	1,1	
661	17.3	17.3	17.3	0,0	
662	17.4	17.5	17.5	1,0	
663	17.5:	17.6:	17.6:	1,0	Star attached.
664	16.7	16.7	16.7	0,0	
665	17.5	17.8	17.7	2,1	
666	17.3:	17.4:	17.4:	1,0	Bright star close.
666a	17.3	17.3	17.3	0,0	
667	17.5	17.6	17.5	0,1	
668	17.3	17.2	17.2	1,0	
669	17.6	17.6	17.6	0,0	
670	16.7:	16.7:	16.7:	0,0	Faint star attached.
671	17.4	17.6	17.5	1,1	
672	17.1	17.5	17.3	2,2	
673	16.4	16.6	16.5	1,1	
674	17.4	17.5	17.5	1,0	
675	17.6	17.6	17.6	0,0	
676	17.5	17.5	17.5	0,0	

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1932phae.proj.234M

677	17.7	17.7	17.7	0,0	
678	17.0	16.9	17.0	0,1	
679	17.6	17.7	17.7	1,0	
680	17.4:	17.5:	17.4:	0,1	Faint star attached.
681	17.1	17.0	17.1	0,1	
682	17.0	17.1	17.0	0,1	
683	17.7	17.7	17.7	0,0	
684	17.8	17.8	17.8	0,0	
685	17.4:	17.4:	17.4:	0,0	Nebula? Bright star close.
687	17.5	17.4	17.5	0,1	
688	16.9	17.0	17.0	1,0	
689	17.7	17.7	17.7	0,0	
690	17.4	17.4	17.4	0,0	
691	17.4	17.5	17.5	1,0	
692	17.5	17.5	17.5	0,0	
692a	17.7	17.6	17.6	1,0	
693	17.5	17.6	17.5	0,1	
693a	16.9	17.0	17.0	1,0	
693b	16.9	17.0	16.9	0,1	
694	16.8	17.0	16.9	1,1	
695	17.5	17.3	17.4	1,1	
696	16.7	16.9	16.8	1,1	
697	17.0	17.0	17.0	0,0	
698	16.7	16.9	16.8	1,1	
699	17.3	17.3	17.3	0,0	
700	17.2	17.1	17.2	0,1	
701	17.4	17.4	17.4	0,0	
702	17.6	17.5	17.5	1,0	
703	17.7	17.7	17.7	0,0	
704	16.9	16.9	16.9	0,0	

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1932phae.proj.234M

727	17.4	17.5	17.4	0,1
728	17.4	17.4	17.4	0,0
729	17.4	17.4	17.4	0,0
730	17.5	17.4	17.5	0,1
731	17.4	17.5	17.4	0,1
732	17.2	17.2	17.2	0,0
733	17.6	17.7	17.7	1,0
734	17.7	17.6	17.6	1,0
735	16.3	16.5	16.4	1,1
736	16.4	16.6	16.5	1,1
737	17.4	17.4	17.4	0,0
738	17.6	17.6	17.6	0,0
739	16.8	16.8	16.8	0,0
740	17.5	17.4	17.5	0,1
741	16.8	16.7	16.8	0,1
a= 742	17.4	17.3	17.3	1,0
743	17.5	17.4	17.4	1,0
744	16.9	16.8	16.9	0,1
745	16.8	16.9	16.8	0,1
746	17.1	17.1	17.1	0,0
747	16.9	17.0	16.9	0,1
748	17.7	17.7	17.7	0,0
749	17.2	17.2	17.2	0,0
750	17.4	17.5	17.4	0,1
751	17.8	17.8	17.8	0,0
752	17.1	17.0	17.1	0,1
753	17.6	17.7	17.6	0,1
754	17.7	17.6	17.7	0,1
755	16.9	16.9	16.9	0,0
756	17.3	17.3	17.3	0,0

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757	17.1	17.0	17.1	0,1	
758	17.4	17.2	17.3	1,1	
759	17.3	17.3	17.3	0,0	
760	16.7	16.9	16.8	1,1	
761	17.1	17.1	17.1	0,0	
762	16.7	16.8	16.8	1,0	
763	16.5:	16.6:	16.5:	0,1	Close to no. 764.
764	17.4:	17.4:	17.4:	0,0	Close to no. 763.
765	17.6	17.5	17.6	0,1	
766	17.5	17.6	17.5	0,1	
767	17.7	17.6	17.6	1,0	
768	17.1	17.3	17.2	1,1	
769	17.5	17.5	17.5	0,0	
770	17.5	17.6	17.5	0,1	Nebula?
771	17.6	17.6	17.6	0,0	
772	17.2	17.3	17.2	0,1	
773	17.3	17.4	17.3	0,1	
774	17.7	17.6	17.6	1,0	
774a	17.3	17.4	17.3	0,1	
775	17.7	17.6	17.6	1,0	
776	17.0	17.0	17.0	0,0	
777	17.3	17.5	17.4	1,1	
778	17.6	17.6	17.6	0,0	
779	17.1	17.1	17.1	0,0	
790	16.5	16.5	16.5	0,0	
791	17.7:	17.7:	17.7:	0,0	Defect close.
792	16.8	16.9	16.9	1,0	
793	16.4	16.4	16.4	0,0	
794a (a=)	17.4	17.5	17.4	0,1	
794b (b=)	17.1	17.1	17.1	0,0	

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795	17.7	17.7	17.7	0,0	
796	17.4	17.3	17.3	1,0	
797	17.2	17.1	17.2	0,1	
798	17.7	17.8	17.7	0,1	
799	17.6	17.6	17.6	0,0	
800	16.7	17.0	16.8	1,1	
801	17.2	17.2	17.2	0,0	
802	16.3	16.4	16.3	0,1	
804	17.5	17.4	17.4	1,0	
805	17.3	17.2	17.3	0,1	Bright star close.
806	17.0	17.0	17.0	0,0	
807	17.4	17.5	17.4	0,1	
808	16.4	16.4	16.4	0,0	
809	17.9	17.7	17.8	1,1	
810	16.8:	17.0:	16.9:	1,1	Attached to 811.
811	17.1:	17.1:	17.1:	0,0	Attached to 810.
812	16.5	16.5	16.5	0,0	
813	17.4:	17.4:	17.4:	0,0	Bright star attached.
814	17.5	17.5	17.5	0,0	
815	17.0	17.0	17.0	0,0	
816	16.9	17.0	16.9	0,1	
817	16.9	17.1	17.0	1,1	
818	16.9	16.9	16.9	0,0	
819	17.6	17.6	17.6	0,0	
820	17.4	17.4	17.4	0,0	
821	17.5	17.4	17.4	1,0	
822	17.0:	17.1:	17.1:	1,0	Bright star close.
823	17.5	17.6	17.6	1,0	
824	17.3	17.4	17.3	0,1	
825	17.1	17.1	17.1	0,0	

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1932phae.proj.2344M

826	17.0	17.0	17.0	0,0
827	17.2	17.2	17.2	0,0
828	17.6	17.6	17.6	0,0
829	16.5	16.7	16.6	1,1
830	17.0	17.1	17.0	0,1
831	17.4	17.6	17.5	1,1
832	17.6	17.7	17.7	1,0
833	17.6	17.6	17.6	0,0
834	17.6	17.6	17.6	0,0
835	17.1	17.1	17.1	0,0
836	17.4	17.4	17.4	0,0
837	17.4	17.4	17.4	0,0
838	17.6	17.6	17.6	0,0
839	17.5	17.6	17.6	1,0
840	17.7	17.8	17.7	0,1
841	17.8	17.9	17.8	
842	17.9	18.0	18.0	
843	16.6	16.7	16.6	0,1
844	17.1	17.3	17.2	1,1
845	17.7	17.7	17.7	0,0
846	17.6	17.7	17.7	1,0
847	17.4	17.6	17.5	1,1
848	16.9	17.0	16.9	0,1
849	17.0	168	16.9	1,1
850	17.5	17.6	17.6	1,0
851	17.0	17.2	17.1	1,1
852	16.9	17.1	17.0	1,1
853	17.3	17.1	17.2	1,1
854	17.6	17.6	17.6	0,0
855	17.6	17.7	17.7	1,0
856	17.6	17.6	17.6	0,0
857	17.4	17.5	17.5	1,0

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1032phot.proj.294M

858	17.2	17.3	17.2	0,1	
859	17.6	17.6	17.6	0,0	
860	17.5	17.5	17.5	0,0	
861	17.2	17.4	17.3	1,1	
862	17.4	17.4	17.4	0,0	
863	16.7	16.8	16.7	0,1	
864	17.7	17.7	17.7	0,0	
865	16.7	17.1	16.9	2,2	
866	17.6	17.6	17.6	0,0	
867	17.0	17.0	17.0	0,0	
922	17.4	17.4	17.4	0,0	
923	17.7	17.6	17.6	1,0	
924	17.5	17.6	17.5	0,1	
925	17.4	17.4	17.4	0,0	
926	17.5	17.5	17.5	0,0	Nebula ?
927	16.8	16.9	16.8	0,1	
928	16.8	16.8	16.8	0,0	
929	17.0	17.1	17.1	1,0	
930	17.6	17.6	17.6	0,0	
931	17.5	17.5	17.5	0,0	
932	17.5	17.5	17.5	0,0	
933	16.9	17.1	17.0	1,1	
934	17.6	17.5	17.6	0,1	
935	17.7	17.6	17.7	0,1	
936	17.0	17.1	17.0	0,1	
937	17.3	17.5	17.4	1,1	
938	17.6	17.6	17.6	0,0	
939	16.7	16.5	16.6	1,1	
940	17.4	17.4	17.4	0,0	
941	17.0	17.1	17.1	1,0	

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942	17.0	17.0	17.0	0,0	
943	16.8	16.6	16.7	1,1	
944	17.5	17.4	17.4	1,0	
992	17.7	17.6	17.7	0,1	
993	17.6	17.6	17.6	0,0	
994	17.6	17.6	17.6	0,0	
995	16.7	16.7	16.7	0,0	
996	17.8	17.8	17.8	0,0	
997	17.0	17.1	17.0	0,1	
998	17.3	17.5	17.4	1,1	
999	17.0	17.1	17.1	1,1	
1000	17.6	17.6	17.6	0,0	
B2	17.6	17.6	17.6	0,0	
B3	17.5	17.5	17.5	0,0	Nebula?
B4	16.9	16.9	16.9	0,0	
B5	17.3	17.4	17.4	1,0	
B6	17.0	17.1	17.1	1,0	
B7	17.7	17.7	17.7	0,0	Nebula?
B8	17.1	17.3	17.2	1,1	
B9	17.6	17.6	17.6	0,0	
B10	17.8	17.8	17.8	0,0	
B25 from A3339 (red)	17.0	16.8	16.9	1,1	
32	16.5	16.6	16.6	1,0	
33	16.9	16.8	16.9	0,1	
34	16.2	16.3	16.3	1,0	
35	16.7	16.7	16.7	0,0	
36	16.1	16.2	16.2	1,0	
43	16.5	16.5	16.5	0,0	
44	16.3	16.6	16.5	2,1	

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1932phae..proj..234M

45	16.4	16.7	16.6	2,1
46	16.9	16.9	16.9	0,0
47	17.1	17.0	17.1	0,1
48	17.2	17.1	17.2	0,1
49	16.8	16.8	16.8	0,0
50	16.0	16.0	16.0	0,0
51	16.9	16.9	16.9	0,0
52	16.5	16.6	16.5	0,1
53	16.9	17.0	17.0	1,0
54	17.1	17.2	17.1	0,1
55	16.7	17.0	16.8	1,2
60	16.6	16.8	16.7	1,1
61	16.9	16.7	16.8	1,1
62	16.7	16.7	16.7	0,0
63	15.9	16.0	15.9	0,1
64	17.0	17.1	17.0	0,1
65	16.2	16.2	16.2	0,0
67	17.0	16.9	16.9	1,0
68	17.1	17.1	17.1	0,0
69	17.6	17.6	17.6	0,0
70	16.3	16.5	16.4	1,1
71	16.3	16.5	16.4	1,1
72	16.4	16.6	16.5	1,1
73	16.1	16.4	16.2	1,2
74	17.0	17.0	17.0	0,0
75	16.2	16.4	16.3	1,1
76	17.1	17.5	17.3	2,2
77	16.7	16.6	16.7	0,1
78	16.8	17.0	16.9	1,1
79	16.7	16.9	16.8	1,1

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81	16.4	16.5	16.4	0,1
82	17.0	17.1	17.1	1,0
83	16.7	17.0	16.8	1,2
84	16.5	16.5	16.5	0,0
85	17.0	16.7	16.9	1,2
86	16.2	16.2	16.2	0,0
87	15.9	16.1	16.0	1,1
88	16.4	16.5	16.4	0,1
89	15.5	15.6	15.5	0,1
90	16.5	16.7	16.6	1,1
91	16.8	168	16.8	0,0
92	16.5	165	16.5	0,0
93	16.4	16.4	16.4	0,0
94	16.3	16.3	16.3	0,0
95	16.5	165	16.5	0,0
114	16.8	17.0	16.9	1,1
290 from A3346 (green)	17.1	17.1	17.1	0,0
55	17.1	17.2	17.2	1,0
92	17.0	17.1	17.1	1,0
93	16.5	16.9	16.7	2,2
94	16.8	16.9	16.8	0,1
95	16.7	16.7	16.7	0,0
96	16.6	16.6	16.6	0,0
97	17.3	17.3	17.3	0,0
98	16.9	16.9	16.9	0,0
99	16.2	16.2	16.2	0,0
100	15.9	16.0	15.9	0,1
101	17.6	17.6	17.6	0,0
101a	16.4	16.5	16.4	0,1

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1992phae.proj.231M

102	17.8	17.8	17.8	0,0
103	17.5	17.5	17.5	0,0
104	16.9	16.9	16.9	0,0
105	16.9	17.0	16.9	0,1
106	17.2	17.2	17.2	0,0
107	17.3	17.6	17.4	1,2
108	16.5	16.4	16.5	0,1
109	16.5	16.6	16.6	1,0
110	16.5	16.5	16.5	0,0
111	16.6	16.5	16.5	1,0
111a	16.4	16.4	16.4	0,0
112	16.3	16.2	16.2	1,0
113	16.7	16.6	16.7	0,1
114	16.5	16.4	16.4	1,0
115	17.0	17.1	17.1	1,0
116	16.5	16.8	16.6	1,2
117	16.6	16.6	16.6	0,0
118	17.5	17.4	17.5	0,1
119	16.9	17.0	17.0	1,0
120	16.4	16.5	16.5	1,0
121	17.0	17.0	17.0	0,0
122	17.4	17.3	17.4	0,1
123	16.5	16.5	16.5	0,0
124	16.3	16.5	16.4	1,1
125	17.1	16.9	17.0	1,1
125a	16.8	16.8	16.8	0,0
126	16.9	17.0	16.9	0,1
126a	16.9	17.1	17.0	1,1
127	17.1	17.2	17.2	1,0
127a	17.0	17.1	17.1	1,0

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	128	16.7	16.7	16.7	0,0
	128a	16.6	16.8	16.7	1,1
	129	17.1	17.1	17.1	0,0
	129a	17.1	16.7	16.9	2,2
	130	17.2	17.1	17.2	0,1
	131	17.2	17.3	17.3	1,0
	132	17.6	17.7	17.6	0,1
	134	17.6	17.7	17.7	1,0
	135	17.3	17.3	17.3	0,0
	140	17.5	17.5	17.5	0,0
	from A4179 (blue)				
	22	17.7	17.7	17.7	0,0
	23	16.8	16.8	16.8	0,0
	36	17.5	17.6	17.6	1,0
	39	16.6	16.5	16.5	1,0
	38	16.5	16.9	16.7	2,2
	40	16.3	16.5	16.4	1,1
	41	~~16.3~~	~~16.4~~	~~16.4~~	~~1,0~~ rejected
	42	16.6	17.0	16.8	2,1
	43	17.7	17.6	17.7	0,1
	44	17.0	17.1	17.0	0,1
	51	16.3:	16.3:	16.3:	0,0 Bright star attached.
	52	17.3	17.3	17.3	0,0
	53	16.0	16.1	16.1	1,0
*	54	15.8	15.7	15.8	0,1 —
	I.C. Objects				
	1917	17.0	16.9	16.9	1,0
	1920	16.4	16.6	16.5	1,1
	1933	A. Ames — 13.2			
	1938	16.0	16.2	16.1	1,1

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1032phae.proj.231M

1942	16.4:	16.5:	16.4:	0,1	Attached to no.478.
1945	16.2	16.4	16.3	1,1	
1946	16.1	16.3	16.2	1,1	
1951	16.7	16.9	16.8	1,1	
1957	16.5	16.7	16.6	1,1	
Menzel					
0325-55 3 55.0	16.4	16.5	16.5	1,0	Double?

Cluster No. 2

209 Total

"B" designates section B on the plate on which numbers begin again with No. 1

B 218	17.6	17.7	17.6	0,1
B 219	17.1	17.1	17.1	0,0
B 220	17.2	17.1	17.1	1,0
B 221	17.5	17.4	17.4	1,0
B 222	16.5	16.9	16.7	2,2
B 223	17.3	17.5	17.4	1,1
B 224	16.4	16.4	16.4	0,0
B 225	17.0	17.0	17.0	0,0
B 226	17.6	17.7	17.7	1,0
B 227	17.0	16.9	17.0	0,1
B 228	17.6	17.7	17.7	1,0
B 229	16.9	16.8	16.8	1,0
B 230	17.4	17.5	17.5	1,0
B 231	17.3	17.3	17.3	0,0
B 232	17.4	17.5	17.4	0,1
B 233	17.5	17.5	17.5	0,0
B 234	17.6	17.7	17.7	1,0
B 235	17.5	17.6	17.6	1,0
B 236	17.3	17.4	17.3	0,1
B 237	17.3	17.5	17.4	1,1

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1932phae.proj.234M

B 238	17.6	17.6	17.6	0,0	Nebula?
B 239	16.8	16.8	16.8	0,0	
B 240	17.1:	17.1:	17.1:	0,0	Attached to red no.146.
B 241	17.6	17.6	17.6	0,0	
B 242	16.5	16.5	16.5	0,0	
B 243	17.5	17.5	17.5	0,0	
B 244	17.6	17.7	17.6	0,1	
B 245	17.4	17.5	17.5	1,0	
B 247	17.4	17.4	17.4	0,0	
B 248	17.4	17.6	17.5	1,1	
B 249	17.2	17.3	17.2	0,1	
B 250	16.7	16.7	16.7	0,0	
B 302	17.6	17.7	17.7	1,0	
B 303	17.4	17.5	17.4	0,1	
B 304	17.4	17.5	17.5	1,0	
B 305	16.9	17.0	17.0	1,0	
B 306	17.1	17.1	17.1	0,0	
B 307	17.0	17.3	17.1	1,2	
B 308	17.5	17.5	17.5	0,0	
B 309	17.6	17.6	17.6	0,0	
B 310	17.1	17.2	17.2	1,0	
B 311	17.0	17.1	17.1	1,0	
B 312	17.6	17.4	17.5	1,1	
B 313	16.0:	15.9:	16.0:	0,1	Defect involved.
B 314	17.2	17.4	17.3	1,1	
B 329	17.0	17.2	17.1	1,1	
B 330	17.4	17.3	17.3	1,0	
B 331	17.4:	17.4:	17.4:	0,0	Defect involved.
B 332	17.7	17.7	17.7	0,0	
B 333	17.1	17.2	17.2	1,0	

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B 334	17.4	17.3	17.3	1,0	
B 335	17.2	17.2	17.2	0,0	
B 336	17.0	17.0	17.0	0,0	
B 337	17.5	17.6	17.6	1,0	
B 338	17.5	17.5	17.5	0,0	
B 339	16.8	16.7	16.7	1,0	
B 340	17.5	17.6	17.6	1,0	
B 341	17.4	17.4	17.4	0,0	
B 342	16.9	16.9	16.9	0,0	
B 343	17.3	17.5	17.4	1,1	
B 344	17.1	17.0	17.1	0,1	
B 345	17.0	16.8	16.9	1,1	
B 346	16.9	16.7	16.8	1,1	
B 347	17.3	17.5	17.4	1,1	
B 348	17.1	16.9	17.0	1,1	
B 349	17.2	17.0	17.1	1,1	
B 350	16.6	16.6	16.6	0,0	
B 351	17.2	17.1	17.2	0,1	
B 352	17.1	17.1	17.1	0,0	
B 353	17.4	17.4	17.4	0,0	
B 354	17.4	17.4	17.4	0,0	
B 355	17.7	17.8	17.7	0,1	
B 356	17.4	17.5	17.4	0,1	
B 357	17.0	17.3	17.1	1,2	
B 358	17.5	17.7	17.6	1,1	
B 359	17.5	17.5	17.5	0,0	
B 360	17.5	17.5	17.5	0,0	
B 361	16.7	16.7	16.7	0,0	
B 362	17.1	17.3	17.2	1,1	Bright star near.
B 363	17.2	17.1	17.2	0,1	

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B 364	17.5	17.5	17.5	0,0	
B 365	17.5	17.6	17.5	0,1	
B 365a	17.0	16.9	17.0	0,1	
B 366	17.4	17.5	17.5	1,0	
B 367	17.5	17.7	17.6	1,1	
B 368	17.6	17.7	17.6	0,1	
B 369	17.4	17.4	17.4	0,0	
B 381	17.8	17.8	17.8	0,0	Nebula ?
B 382	17.5	17.5	17.5	0,0	
B 383	17.6:	17.8:	17.7:	1,1	Attached to no. 384.
B 384	17.4:	17.6:	17.5:	1,0	Attached to no. 383.
B 385	17.1	17.4	17.2	1,2	
B 386	16.8	16.8	16.8	0,0	
B 387	17.5	17.4	17.5	0,1	
B 388	16.8	17.0	16.9	1,1	
B 389	17.4	17.4	17.4	0,0	
B 390	16.5	16.5	16.5	0,0	
B 391	17.5:	17.5:	17.5:	0,0	Attached to no. 392.
B 392	17.3:	17.2:	17.2:	1,0	Attached to no. 391.
B 393	17.7	17.7	17.7	0,0	
B 394	17.0	17.3	17.1	1,2	
B 395	17.2	17.4	17.3	1,1	
B 396	17.1	17.4	17.2	1,2	
B 397	17.1	17.4	17.2	1,2	
B 397a	17.5	17.6	17.6	1,0	
B 398	17.6	17.7	17.7	1,0	
B 398a	16.9	16.9	16.9	0,0	
B 399	17.5	17.4	17.4	1,0	
B 400	17.0	17.1	17.1	1,0	
B 401	17.6	17.6	17.6	0,0	

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B 402	17.0	17.1	17.0	0,1	
B 403	17.4	17.5	17.5	±1,0	
B 404	17.0	17.0	17.0	0,0	Nebula?
B 405	16.9	16.9	16.9	0,0	
B 406	17.4	17.5	17.4	0,1	
B 407	16.5	16.7	16.6	±1,1	
B 408	16.6	16.6	16.6	0,0	
B 409	16.2	16.4	16.3	±1,1	
B 410	17.5	17.6	17.5	0,1	
B 411	17.1	17.1	17.1	0,0	
B 412	17.2	17.2	17.2	0,0	
B 413	17.6	17.6	17.6	0,0	
a= B 413a	17.0	17.2	17.1	±1,1	
b= B 413b	17.0	17.3	17.2	±2,1	
c= B 413c	17.5	17.6	17.5	0,1	
B 414	17.6	17.6	17.6	0,0	
B 415	17.5	17.6	17.6	±1,0	
B 416	17.4	17.4	17.4	0,0	
B 417	17.0	17.0	17.0	0,0	
B 418	17.6	17.6	17.6	0,0	
B 419	16.6	16.8	16.7	±1,1	
B 420	16.7	17.0	16.9	±2,1	
B 421	17.5	17.5	17.5	0,0	
B 422	17.2	17.4	17.3	±1,1	
B 423	17.0	17.0	17.0	0,0	
B 424	16.2	16.2	16.2	0,0	
B 425	17.0	17.1	17.0	0,1	
B 426	17.2	17.2	17.2	0,0	
B 427	16.9	17.1	17.0	±1,1	
B 428	17.6	17.5	17.5	1,0	

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B 429	17.5	17.5	17.5	0,0	
B 430	17.6	17.7	17.6	0,1	
B 431	17.5	17.4	17.5	0,1	
B 432	17.3	17.4	17.4	1,0	
B 433	17.4	17.4	17.4	0,0	
B 434	17.5	17.6	17.6	0,1	
B 435	17.1	17.1	17.1	0,0	
B 436	17.2	17.5	17.3	1,2	
B 437	17.0	16.9	16.9	1,0	
B 438	16.2	16.1	16.2	0,1	
B 439	17.5	17.5	17.5	0,0	
B 440	17.4:	17.3:	17.3:	1,0	Star attached.
B 441	17.4	17.5	17.4	0,1	
B 442	17.5	17.4	17.5	0,1	
B 443	17.7	17.6	17.6	1,0	
B 444	17.3	17.4	17.3	0,1	
B 445	16.9	17.0	17.0	1,0	
B 446	17.1	17.1	17.1	0,0	
B 447	17.1	17.3	17.2	1,1	
B 448	17.2	17.5	17.3	1,2	
B 449	17.2	17.4	17.3	1,1	
B 450	16.9	17.1	17.0	1,1	
B 451	17.1	17.2	17.2	1,0	
B 464	17.6	17.6	17.6	0,0	
B 465	17.0	16.9	16.9	1,0	
B 466	16.9	17.1	17.0	1,1	
B 467	17.3	17.5	17.4	1,1	
B 468	16.9	17.0	16.9	0,1	
B 469	17.6	17.6	17.6	0,0	
B 470	16.8	16.9	16.8	0,1	

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B 471 from A3339 (red)	17.6	17.6	17.6	0,0	
140	17.0	17.1	17.1	1,0	
141	16.4	16.3	16.4	0,1	
142	16.9	16.7	16.8	1,1	
143	16.7	16.5	16.6	1,1	
144	16.9	17.0	16.9	0,1	
145	17.2	17.3	17.2	0,1	
146	17.1:	17.3:	17.2:	1,1	Attached to blue no.240
147	16.7	16.7	16.7	0,0	
148	16.7	16.7	16.7	0,0	
162	16.5	16.4	16.5	0,1	
163	17.4	17.5	17.4	0,1	
164	17.0	17.1	17.1	1,0	
165	16.8	16.7	16.8	0,1	
166	16.9	17.0	16.9	0,1	
167	17.1	17.1	17.1	0,0	
168	17.0	16.7	16.8	1,1	
169	17.4:	17.4:	17.4:	0,0	Star attached.
170	17.0	17.0	17.0	0,0	
171	16.5	16.5	16.5	0,0	
172	16.5	16.6	16.5	0,1	
173	17.2	17.3	17.2	0,1	
174	16.8	16.7	16.7	1,0	
175	16.5	16.5	16.5	0,0	
176	16.2	16.2	16.2	0,0	
177	16.0	16.4	16.2	2,2	
193	16.5	16.6	16.6	1,0	
194	16.6	16.7	16.7	1,0	
195	16.8	16.9	16.8	0,1	

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	196	17.3	17.1	17.2	1,1
	197	16.5	16.6	16.5	0,1
	203	16.8	16.8	16.8	0,0
	204	17.1	17.0	17.0	1,0
	205	16.2	16.2	16.2	0,0
	207	17.1	17.3	17.2	1,1
	208	16.5	16.2	16.3	2,1
	209	16.8	16.9	16.8	0,1
	210	16.2	16.3	16.3	1,0
	275	16.7	16.6	16.6	1,0

12

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1932phae.proj.23:AM

A 14308

20 23 -57.4

Cluster 1 = 77[9] nebulae
Cluster 2 = 55[3] nebulae
} 132

Sequence in center { Cluster 1 near edge. / Cluster 2 near edge.

No. Cluster No I	A14308 Mag.	A14308 Mag. 2nd Measure	Mean	Residuals	Remarks
a	18.3	18.1	18.2	1, 1	Bright star close.
b	16.3	16.0	16.2	1, 2	
c	18.3	18.1	18.2	1, 1	
d	17.7	17.7	17.7	0, 0	
e	18.1	17.9	18.0	1, 1	
f	16.9	16.9	16.9	0, 0	
g	16.0	15.9	15.9	1, 0	
h	17.2	17.3	17.2	0, 1	
i	17.5	17.3	17.4	1, 1	
j	16.4	16.5	16.4	0, 1	
k	17.9	17.9	17.9	0, 0	
l	17.5	17.5	17.5	0, 0	
m	17.7	17.5	17.6	1, 1	
n	16.3	16.5	16.4	1, 1	
o	16.9	16.9	16.9	0, 0	
p	17.1	17.5	17.3	2, 2	
12	16.6	16.6	16.6	0, 0	
13	18.1	17.9	18.0	1, 1	
14	18.1	18.1	18.1	0, 0	
15	17.0	16.8	16.9	1, 1	
16	18.3	17.9	18.1	2, 2	
17	17.7	17.7	17.7	0, 0	
18	17.3	17.3	17.3	0, 0	
19	17.2	17.3	17.2	0, 1	Bright star close.
20	17.7	17.5	17.6	1, 1	

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1932phae.proj.2344M

21	17.3	17.5	17.4	1,1	
22	16.6	16.5	16.5	1,0	
23	17.2	16.8	17.0	2,2	
24	17.1	16.7	16.9	2,2	
25	17.5	17.7	17.6	1,1	
26	17.3	17.5	17.4	1,1	
27	16.6	17.0	16.8	2,2	
28	17.3	17.3	17.3	0,0	
29	16.5:	16.8:	16.6:	1,2	Star attached.
30	17.5	17.9	17.7	2,2	
32	17.5	18.1	17.8	3,3	
33	16.6	16.8	16.7	1,1	
34	16.9	16.9	16.9	0,0	
35	17.3	17.5	17.4	1,1	
48	17.3	17.3	17.3	0,0	
49	16.9	17.0	16.9	0,1	
50	17.7	17.7	17.7	0,0	
52	16.5	16.3	16.4	1,1	
53	16.9	17.3	17.1	2,2	
54	16.3	16.5	16.4	1,1	
55	17.1	17.5	17.3	2,2	
56	17.7:	17.7:	17.7:	0,0	No. 57 attached.
57	17.5:	17.5:	17.5:	0,0	No. 56 attached.
58	16.2	16.5	16.4	1,2	
59	18.8	19.0	18.9	1,1	
61	18.5	19.0	18.8	3,2	
62	17.7	17.7	17.7	0,0	
63	17.3	17.3	17.3	0,0	
64	17.9	17.5	17.7	2,2	
65	17.5	17.3	17.4	1,1	

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1932phae.proj.2342M

66	17.5	17.7	17.6	1,1	
67	17.2	17.3	17.2	1,0	
68	17.3	17.3	17.3	0,0	
69	16.3	16.5	16.4	1,1	
70	17.0	17.3	17.2	2,1	
71	17.0	17.3	17.2	1,2	
72	16.6	16.9	16.8	2,1	
73	18.1	18.1	18.1	0,0	
74	17.9	17.9	17.9	0,0	
75	17.5	17.5	17.5	0,0	
76	18.3	18.1	18.2	1,1	No.77 attached.
77	16.9:	17.2:	17.0:	1,2	No.76 attached.
78	17.9	17.7	17.8	1,1	
79	17.5	17.5	17.5	0,0	
80	18.5	18.3	18.4	1,1	
81	17.7	17.7	17.7	0,0	
From A6770 + 5695					
a'	16.4	16.3	16.3	1,0	
b'	17.7	17.5	17.6	1,1	
c'	15.9	15.9	15.9	0,0	
d'	16.9	16.6	16.8	1,2	
e'	15.8	15.9	15.8	0,1	
f'	15.6	15.7	15.7	1,0	
HN2305	15.7	16.0	15.8	1,2	
IC.4965	15.6	15.7	15.7	1,0	

Cluster No. 2

From A6779	32	16.1	15.9	16.0	1,1
	33	17.2	17.3	17.2	0,1
	64	17.1	16.7	16.9	2,2

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1932phae.proj.2344M

260	17.7	17.5	17.6	1,1	
261	18.1	18.3	18.2	1,1	
262	17.7	17.9	17.8	1,1	
315	17.9	18.1	18.0	1,1	
316	17.2	16.9	17.1	1,2	
317	17.7	17.7	17.7	0,0	
318	17.7	17.5	17.6	1,1	
319	17.3	17.3	17.3	0,0	
320	16.5	16.5	16.5	0,0	
321	18.1	17.7	17.9	2,2	
322	16.4	16.5	16.5	1,0	
323	18.3	18.3	18.3	0,0	
324	18.3	18.3	18.3	0,0	Nebula?
325	17.3	17.5	17.4	1,1	
326	17.5	17.7	17.6	1,1	
327	17.7	17.9	17.8	1,1	
328	18.3	18.3	18.3	0,0	
329	18.3	18.1	18.2	1,1	
330	17.7	17.7	17.7	0,0	
331	17.5	17.3	17.4	1,1	
331a	17.7	17.9	17.8	1,1	
332	17.3	17.2	17.2	1,0	
333	17.9	17.9	17.9	0,0	
334	18.1	18.1	18.1	0,0	
334a	17.9	17.9	17.9	0,0	
335	17.5	17.5	17.5	0,0	
336	18.5	18.3	18.4	1,1	
336a	17.9	17.9	17.9	0,0	
337	17.9	17.7	17.8	1,1	
338	17.7	17.7	17.7	0,0	

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1932phae.proj.234M

339	18.1	18.1	18.1	0,0	Star attached.
340	17.7	17.5	17.6	1,1	Nebula?
341	17.5	17.5	17.5	0,0	
342	18.3	18.1	18.2	1,1	
343	17.3	17.2	17.3	0,1	
344	18.1	17.9	18.0	1,1	
345	17.7	17.7	17.7	0,0	
346	17.7	17.9	17.8	1,1	
347	18.3	18.3	18.3	0,0	
348	18.1	17.9	18.0	1,1	
349	17.9	17.7	17.8	1,1	
350	18.3	18.1	18.2	1,1	
351	18.1:	18.1:	18.1:	0,0	Star attached.
352	18.5	18.3	18.4	1,1	
353	18.3	18.3	18.3	0,0	
354	18.3	17.9	18.1	2,2	
355	16.4	16.0	16.2	2,2	
356	17.2	16.9	17.1	1,2	
357	17.9	17.7	17.8	1,1	
358	17.3	17.0	17.2	1,2	

NOTE: In cluster no. 1, a - σ = new nebulae found by M.E.M., and checked on A6770.

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1932phae.proj.234M

48 ✓

+36 281

A14716

13 20 -25.0

Total No. = 52 ✓

M.E.M.

Sequence in center; cluster fairly near.

No.	A14716 1st measure Mag.	A14716 2nd measure Mag.	Mean	Residuals	Remarks
148	16.8	16.7	16.7	1,0	
149	16.9	16.8	16.8	1,0	
150	17.0	17.0	17.0	0,0	
151	17.0	17.3	17.1	1,2	
153	16.9	16.9	16.9	0,0	Nebula?
154	16.3	16.3	16.3	0,0	
155	16.4	16.2	16.3	1,1	
156	17.0	17.0	17.0	0,0	Nebula?
156a	17.1	17.1	17.1	0,0	
157	17.2	17.1	17.2	0,1	
158	17.0	17.0	17.0	0,0	
159	17.2	17.1	17.1	1,0	
163	17.3	17.2	17.2	1,0	Nebula?
164	16.9	16.7	16.8	1,1	
165	16.2	16.2	16.2	0,0	
166	15.9	16.1	16.0	1,1	
167	17.0	17.1	17.1	1,0	Nebula?
168	16.1	16.3	16.2	1,1	
169	16.3	16.4	16.4	1,0	
170	17.4	17.4	17.4	0,0	
171	17.1	17.2	17.1	0,1	
172	15.8	16.0	15.9	1,1	
172a	17.1	17.0	17.0	1,0	
173	17.0	16.9	16.9	1,0	
173a	17.3	17.1	17.2	1,1	

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1932phae.proj.224M

174	17.4	17.3	17.4	0,1	
175	17.0	16.9	16.9	1,0	
176	16.8	16.8	16.8	0,0	
177	17.4	17.5	17.4	0,1	
188	16.5	16.5	16.5	0,0	
189	16.0	16.1	16.1	1,0	
190	16.6:	16.6:	16.6:	0,0	Star attached.
191	17.0	17.2	17.1	1,1	
192	16.8	16.9	16.8	0,1	
210	17.0	17.3	17.2	2,1	

From A 6714 (green)

1	15.2	15.1	15.1	1,0
3	16.1	16.0	16.0	1,0
4	16.1	15.9	16.0	1,1
5	16.3	16.1	16.2	1,1
6	15.8	15.8	15.8	0,0
7	16.0	16.0	16.0	0,0
9	16.3	16.2	16.3	0,1
10	15.8	15.8	15.8	0,0
11	16.9	16.9	16.9	0,0
12	16.2	16.3	16.2	0,1
13	16.4	16.5	16.5	1,0
14	16.9	16.9	16.9	0,0
15	17.1	16.9	17.0	1,1
16	16.6	16.5	16.6	0,1
17	15.8	15.6	15.7	1,1
18	17.3	17.3	17.3	0,0
19	16.3	16.5	16.4	1,1

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1932phae.proj.234M

50 ✓ +27.5 235 M.E.M.

A14720

10 20 -25.0

Total No. = ~~56~~ 55 Sequence in center; cluster fairly close.

No.	A14720 1st measure Mag.	A14720 2nd measure Mag.	Mean	Residuals	Remarks
196	16.7	16.6	16.7	0, 1	
197	17.3	17.6	17.4	1, 2	
198	17.7	17.6	17.7	0, 1	
199	17.6	17.5	17.6	0, 1	
200	16.0	16.0	16.0	0, 0	
217	17.3	17.3	17.3	0, 0	
218	17.5	17.4	17.4	1, 0	
219	17.7	17.7	17.7	0, 0	
220	168	16.7	16.7	1, 0	
221	17.4	17.3	17.3	1, 0	
222	17.8	17.7	17.8	0, 1	
225	15.7	15.6	15.7	0, 1	
226	16.9	16.9	16.9	0, 0	
227	17.1	17.3	17.2	1, 1	
228	15.9	15.6	15.8	1, 2	
229	17.2	17.3	17.3	1, 0	
230	17.2	17.3	17.2	0, 1	
231	17.7	17.6	17.7	0, 1	
232	16.4	16.2	16.3	1, 1	
233	17.4	17.4	17.4	0, 0	
234	17.7	17.7	17.7	0.0	
235	16.4	16.5	16.4	0, 1	
236	17.3	17.3	17.3	0, 0	
237	17.7	17.7	17.7	0, 0	
271	17.6	17.5	17.5	1, 0	
272	16.9	16.9	16.9	0, 0	

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1932phae.proj.234M

273	17.6	17.6	17.6	0,0	
274	17.3	17.5	17.4	±,1	
275	17.7	17.7	17.7	0,0	
276	17.0:	16.9:	17.0:	0,±	Double? or star attached?
277	17.2	17.0	17.1	1,±	
278	17.5	17.3	17.4	1,±	
279	16.8	16.8	16.8	0,0	
280	17.2	17.2	17.2	0,0	
281	17.1	17.1	17.1	0,0	
282	17.7	17.7	17.7	0,0	
283	16.4	16.1	16.3	1,2	
284	16.9	16.9	16.9	0,0	
285	17.0	16.9	17.0	0,±	
(297	17.1	17.2	17.1	0,1)	Omitted in revised area of cluster
401	17.7	17.7	17.7	0,0	
402	17.3	17.4	17.4	±,0	
403	15.8	15.9	15.9	±,0	
404	15.7	15.8	15.8	±,0	
405	17.4	17.6	17.5	±,1	
406	16.9:	17.1:	17.0:	±,1	Star attached.
407	17.3	17.3	17.3	0,0	
408	17.7	17.7	17.7	0,0	
409	17.6	17.6	17.6	0,0	
410	17.6	17.5	17.5	1,0	
411	17.1	17.2	17.2	±,0	
412	17.5	17.4	17.5	0,±	
413	17.4	17.6	17.5	±,1	
414	17.7	17.7	17.7	0,0	
415	17.5	17.5	17.5	0,0	
416	17.3	17.2	17.2	1,0	

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1932phae.proj.234M

52 ✓ +30 293 M.E.M.

A14797

14 10 -27.5

Total = ~~63~~ 50 ✓ Cluster and sequence in center.

No.	A14797 1st measure Mag.	A14797 2nd measure Mag.	Mean	Residuals	Remarks
(203	15.1	15.2	15.1	0,1)	Omitted in revised area
(204	17.5	17.5	17.5	0,0)	" " " "
(226	16.4	16.6	16.5	1,1)	" " " "
(227	15.9	15.9	15.9	0,0)	" " " "
228	17.0	16.7	16.8	2,1	
229	17.3	17.4	17.3	0,1	
(230	16.9	16.8	16.8	1,0)	Omitted in revised area
(231	17.0	16.7	16.9	1,2)	" " " "
232	16.4	16.4	16.4	0,0	
233	16.4	16.5	16.4	0,1	
234	14.7	14.9	14.8	1,1	
235	16.7	16.7	16.7	0,0	
236	16.5	16.5	16.5	0,0	
237	17.4	17.5	17.5	1,0	Nebula?
238	17.1	17.1	17.1	0,0	Nebula?
(239	17.4	17.4	17.4	0,0)	Omitted in revised area
240	16.7	16.9	16.8	1,1	
241	17.4	17.3	17.4	0,1	
242	16.6:	16.7:	16.7:	1,0	Star attached.
243	17.3	17.2	17.2	1,0	
244	14.6	14.8	14.7	1,1	
245	16.4:	16.1:	16.3:	1,2	Faint star attached ?
246	15.4:	15.5:	15.4:	0,1	Double ?
247	17.0	17.0	17.0	0,0	
248	17.5	17.5	17.5	0,0	
249	17.1	17.4	17.3	2,1	

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1932phae.proj.2347M

250	16.0	16.0	16.0	0,0
251	15.6	15.4	15.5	1,1
252	15.1	15.1	15.1	0,0
253	16.6	16.2	16.4	2,2
254	16.6	16.6	16.6	0,0
255	15.5	15.5	15.5	0,0
256	17.3	17.6	17.4	1,2
257	17.6	17.7	17.7	1,0
258	17.1	17.1	17.1	0,0
259	17.3	17.1	17.2	1,1
260	15.1	15.0	15.0	1,0
261	16.6	16.6	16.6	0,0
262	15.5	15.4	15.5	0,1
263	16.7	16.6	16.6	1,0
264	16.5	16.5	16.5	0,0
265	15.4	15.5	15.5	1,0
266	16.2	16.3	16.2	0,1
267	16.4	16.4	16.4	0,0
268	17.4	17.5	17.5	1,0
269	15.1	15.1	15.1	0,0
270	15.8	16.2	16.0	2,2
271	15.0	15.0	15.0	0,0
272	17.6	17.5	17.6	0,1
273	17.1	17.3	17.2	1,1
(274	17.3	17.5	17.4	1,1) Omitted in revised Curve
(275	17.2	17.3	17.3	1,0) " " " "
(276	15.7	15.6	15.6	1,0) " " " "
(277	17.3	16.9	17.1	2,2) " " " "
(278	17.5	17.6	17.5	0,1) " " " "
279	17.0	16.9	17.0	0,1

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1932phae.proj.234M

280	16.9	16.6	16.7	2,1
281	17.3	17.5	17.4	1,1
282	16.1	16.5	16.3	2,2
283	16.7	16.6	16.6	1,0
284	17.0	17.0	17.0	0,0
285	16.5	16.6	16.5	0,1
√√√(286	15.4	15.5	15.4	0,1) (Omitted in revised area)

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1992phae.proj.234M

Total = 70

A14860

Total = 70 ✓65 0 00 -25.0

[Cluster No. 4] Sequence in center; cluster at edge.

No.	A14860 1st measure Mag.	A14860 2nd measure Mag.	Mean	Residuals	Remarks
(415	17.9	17.9	17.9	0,0)	Omitted in revised area
(416	18.1	18.0	18.1	0,1)	Nebula?" " " "
(417	18.3	18.3	18.3	0,0)	" " " "
(418	17.7	17.7	17.7	0,0)	" " " "
(426	17.3	17.4	17.4	1,0)	" " " "
427	18.6	18.6	18.6	0,0	
428	17.8	17.7	17.7	1,0	
438	18.0	17.9	18.0	0,1	
439	17.9	17.8	17.9	0,1	
440	18.3	18.3	18.3	0,0	
441	16.9	17.0	17.0	1,0	
442	17.8	17.7	17.7	1,0	
443	18.1	18.3	18.2	1,1	
444	17.9	18.1	18.0	1,1	
445	18.7	18.5	18.6	1,1	
446	17.8	17.9	17.8	0,1	
447	16.4	16.4	16.4	0,0	
448	16.2	16.2	16.2	0,0	
449	18.3	18.2	18.3	0,1	Nebula?
450	18.4	18.3	18.4	0,1	
451	17.8	17.9	17.8	0,1	
452	17.2	17.4	17.3	1,1	
453	18.4	18.4:	18.4	0,0	
454	17.1	17.4	17.3	2,1	
455	17.9	18.0	18.0	1,0	
456	17.7	17.8	17.7	0,1	

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1932phae.proj.234M

457	15.1	14.9	15.0	1,1	
458	14.7	14.5	14.6	1,1	
459	18.0	18.1	18.0	0,1	
460	18.1	18.0	18.1	0,1	
461	16.9	17.0	17.0	1,0	
462	18.2	18.2	18.2	0,0	
463	17.8	17.9	17.9	1,0	
464	17.6	17.8	17.7	1,1	Nebula?
465	17.4	17.4	17.4	0,0	
466	17.6	17.8	17.7	1,1	
467	18.2	18.0	18.1	1,1	
468	17.8	17.7	17.7	1,0	
469	18.4	18.4	18.4	0,0	
470	17.6	17.3	17.4	2,1	
471	18.1	18.1	18.1	0,0	
472	17.9:	17.8:	17.9:	0,1	Bright star close.
473	18.3	18.3	18.3	0,0	Nebula?
474	18.3	18.3	18.3	0,0	
475	18.0	18.0	18.0	0,0	
476	17.9	17.7	17.8	1,1	
477	17.6	17.6	17.6	0,0	
478	18.4	18.4	18.4	0,0	
479	18.0	17.9	18.0	0,1	
480	18.3	18.1	18.2	1,1	
481	17.1	17.0	17.1	0,1	
482	18.2	18.2	18.2	0,0	
483	18.6	18.5	18.6	0,1	
484	16.7	16.8	16.7	0,1	
485	17.7	17.8	17.8	1,0	
486	17.8:	17.6:	17.7:	1,1	Defect involved.

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487	17.5	17.4	17.5	0,1
488	17.7	17.7	17.7	0,0
489	18.3	18.0	18.2	1,2
490	17.4	17.4	17.4	0,0
491	18.2	18.4	18.3	1,1
492	17.8	17.9	17.9	1,0
493	17.7	17.9	17.8	1,1
494	16.4	16.8	16.6	2,2
495	17.8	17.9	17.9	1,0
496	16.8	17.0	16.9	1,1
497	16.6	16.9	16.8	2,1
502	17.9	18.1	18.0	1,1
503	17.7	18.0	17.9	2,1
504	17.8	17.9	17.8	0,1

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58 ✓

-85 30

A 14866

0 20 -25.0

Total no. of nebulae in cluster = 28 ✓

Cluster fairly near edge, sequence in center of plate.

(No. 1 cluster only)

No	A14866 1st measure Mag. meth	A14866 2nd measure Mag. meth	Mean	Residuals	Remarks
a	16.8	16.8	16.8	0,0	From A 14860
b	17.6	17.7	17.7	±1,0	" "
c	17.0	17.0	17.0	0,0	" "
27	18.2	18.2	18.2	0,0	
73	17.7	17.9	17.8	±1,1	Nebula?
73a	17.6	17.7	17.6	0,1	
74	17.9	17.9	17.9	0,0	
75	18.2	18.2	18.2	0,0	
76	17.7	17.9	17.8	±1,1	
77	17.4	17.4	17.4	0,0	
78	18.2:	18.2:	18.2:	0,0	Attached to no. 79.
79	18.3:	18.3:	18.3:	0,0	Attached to no. 78.
80	17.7	17.7	17.7	0,0	
81	18.2	18.3	18.3	±1,0	
92	17.5	17.3	17.4	1,1	
93	16.9	17.0	17.0	±1,0	
94	18.4	18.4	18.4	0,0	Nebula?
95	17.8	17.8	17.8	0,0	
96	18.0	17.9	17.9	1,0	
97	17.8	17.9	17.8	0,1	
98	18.2	18.2	18.2	0,0	
99	18.1	18.1	18.1	0,0	
99a	18.1	18.1	18.1	0,0	
99b	17.9	17.8	17.9	0,±1	
99c	18.1	17.8	18.0	1,±2	

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100	16.9	16.9	16.9	0,0	
100a	18.1:	18.2:	18.1:	0,1	Close to no. 100.
101	17.5	17.5	17.5	0,0	

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1932phae.proj.234M

60

-26 15

A 15794

A 15794

20 40 ±0.0

TOTAL NO. OF NEBULAE IN CLUSTER = 9

CLUSTER AND SEQUENCE BOTH IN CENTER OF PLATE.

No.	A 15794 1ST MEASURE MAG.	A 15794 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
122	17.7	17.8	17.8	1, 0	
123	17.7	17.7	17.7	0, 0	Nebula?
I.C.					
5057	16.9	16.8	16.9	0, 1	
N.G.C					
6959	15.4:	15.6:	15.5:	1, 1	Star involved.
6961	16.0	16.2	16.1	1, 1	
6962	14.9	15.0	15.0	1, 0	
6963	16.4	16.2	16.3	1, 1	
6964	15.1	15.1	15.1	0, 0	
6967	15.5	15.2	15.3	2, 1	

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1932phae.proj.231M

-48 355

A 15475

21 30 − 22.5

TOTAL NO. OF NEBULAE IN CLUSTER = 27 26 [omit N7103] CLUSTER AND SEQUENCE BOTH IN CENTER

No.	A 15475 1ST MEASURE MAG.	A 15475 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
169	16.8	16.8	16.8	0, 0	
188	17.0	16.9	17.0	0, 1	
190	16.8	16.7	16.7	1, 0	
193	16.9	16.9	16.9	0, 0	Nebula?
224	18.0	18.1	18.0	0, 1	
224a	16.8	16.7	16.7	1, 0	
FROM A 12652 (GREEN)					
1	17.0	16.9	17.0	0, 1	
2	17.6	17.4	17.5	1, 1	
3	16.6	16.5	16.5	1, 0	
4	15.4	15.3	15.4	0, 1	
5	16.3	16.0	16.1	2, 1	
6	17.7	17.6	17.6	1, 0	
7	16.4	16.4	16.4	0, 0	
8	16.9	16.8	16.9	0, 1	
9	17.0	16.7	16.8	1, 1	
10	17.4	17.0	17.2	2, 2	
11	15.9	15.7	15.8	1, 1	
12	15.7	15.6	15.7	0, 1	
13	16.9	16.7	16.8	1, 1	
14	15.9	15.9	15.9	0, 0	
15	16.9	16.8	16.8	1, 0	
16	17.5	17.1	17.3	2, 2	
I.C. 1393	15.3	15.1	15.2	1, 1	
5122	16.0	16.0	16.0	0, 0	
5124	16.4	16.2	16.3	1, 1	
(ds: omit → N.G.C. 7103(?)	16.2	16.3	16.3	1, 0	Identification uncertain
7104	15.9	15.8	15.8	1, 0	

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1932phae.proc.2344M

32 ✓ -31 319

A 7447

1950 − 47.5

TOTAL NO. OF NEBULAE IN CLUSTER = } No.1 = 7 ✓ No2 = 18 ✓

SEQUENCE IN CENTER, CLUSTER 2 FAIRLY CLOSE — CLUSTER NO. 1 IN CENTER

	No.	A 7447 1st MEASURE MAG.	A 7447 2nd MEASURE MAG.	MEAN	RESIDUALS	REMARKS
CLUSTER No. 1	2	16.5	16.6	16.6	⊥,0	
	3	17.2	17.0	17.1	1,⊥	
H.N.	2154	16.8	16.9	16.9	⊥,0	
	2169	15.2	15.0	15.1	1,⊥	
	2170	16.9	17.0	17.0	⊥,0	
	2172	15.9	15.9	15.9	0,0	
N.G.C.	6845	15.0	14.9	14.9	1,0	
CLUSTER No. 2						
H.N	2218	16.0	16.1	16.0	0,1	
	2221	16.4	16.6	16.5	⊥,1	
	2227	16.0	16.1	16.1	⊥,0	
	2231	14.6	14.9	14.8	2,1	
	2233	15.7:	15.8:	15.7:	0,1	Star attached.
	2236	16.3	16.1	16.2	1,⊥	
	2245	17.0	17.4	17.2	2,2	
	2249	14.0	14.0	14.0	0,0	
	2253	16.9	16.9	16.9	0,0	
	2258	16.0	16.3	16.2	2,1	
	2263	14.5	14.6	14.5	0,1	
	2269	16.3	16.3	16.3	0,0	
	2287	16.3	16.4	16.4	1,0	
I.C.	4943	14.1	14.3	14.2	⊥,1	
N.G.C.	6851			12.8		Measured by A. Ames
	6861			12.3		" " "
	6868			12.1		" " "
	6870	14.4	14.0	14.2	2,2	

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1932phae.proj.2347M

-72 73

A 15803

0.40 −10.0

TOTAL NO. OF NEBULAE IN CLUSTER = 102

SEQUENCE AND CLUSTER IN CENTER OF PLATE

[None of these nebulae have been checked on check plate.]

No.	A15803 1ST MEASURE MAG.	A15803 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
233	16.9	17.1	17.0	1, 1	
233a	16.8	17.0	16.9	1, 1	
~~234~~					
~~235~~					
~~236~~					
~~261~~					
262	17.9	17.8	17.8	1, 0	
263	16.9	17.3	17.1	2, 2	
264	18.0	18.0	18.0	0, 0	Nebula?
265	17.3	17.4	17.3	0, 1	
266	17.7	17.7	17.7	0, 0	
267	16.9	16.7	16.8	1, 1	
296	18.0	18.0	18.0	0, 0	
297	17.9	17.7	17.8	1, 1	
298	18.0	18.0	18.0	0, 0	
299	17.8	17.9	17.8	0, 1	
300	18.0	18.0	18.0	0, 0	
301	17.9	17.8	17.9	0, 1	
302	17.2	17.2	17.2	0, 0	
303	17.3	17.4	17.4	1, 0	
304	16.6	16.6	16.6	0, 0	
305	17.8	17.8	17.8	0, 0	
306	18.0	17.7	17.9	1, 2	Nebula?
307	18.0	17.8	17.9	1, 1	Nebula?
308	16.8	16.8	16.8	0, 0	
309	16.3	16.3	16.3	0, 0	

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310	17.8	17.9	17.8	0, 1	
311	17.4	17.5	17.5	1, 0	
312	17.8	17.8	17.8	0, 0	
313	17.6	17.5	17.6	0, 1	
314	18.1	18.1	18.1	0, 0	
315	18.0	18.1	18.1	0, 0	
316	17.2	17.4	17.3	1, 1	
~~317~~	18.0	17.8	17.9	1, 1	
318	17.6	17.7	17.6	0, 1	
319	17.2	17.3	17.3	1, 0	
320	16.7	16.6	16.6	1, 0	
321	16.8	16.9	16.9	1, 0	
322	16.8	17.1	17.0	2, 1	Close to 323
323	17.2	17.3	17.3	1, 0	Close to 322
324	16.6	16.8	16.7	1, 1	
325	17.9	18.0	18.0	1, 0	
326	17.2	17.4	17.3	1, 1	
327	18.0	17.9	18.0	0, 1	
328	17.9	17.9	17.9	0, 0	
329	17.6	17.7	17.6	0, 1	
330	17.4:	17.3:	17.3:	1, 0	Bright star close
331	17.9	17.9	17.9	0, 0	
332	18.1	18.1	18.1	0, 0	Nebula?
333	17.9	17.9	17.9	0, 0	
334	17.5	17.4	17.4	1, 0	
335	17.4	17.4	17.4	0, 0	
336	17.7	17.6	17.7	0, 1	
337	16.8	16.8	16.8	0, 0	
338	17.6	17.4	17.5	1, 1	
339	18.1	18.1	18.1	0, 0	

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1932phae.proj.2347M

	340	18.1	18.0	18.0	1,0	
	341	16.8	16.4	16.6	2,2	
Willow	~~342~~	17.6	17.4	17.5	1,1	
	343	17.5	17.6	17.5	0,1	
	344	18.0	17.7	17.8	2,1	
	345	17.4	17.5	17.5	1,0	
	346	18.0	18.1	18.0	0,1	
	347	18.1	18.1	18.1	0,0	
	348	16.6	16.4	16.5	1,1	
	349	18.0	18.1	18.1	1,0	
	350	17.9	18.1	18.0	1,1	
	351	17.7	17.3	17.5	2,2	
	352	17.2	17.2	17.2	0,0	
	353	18.0	17.7	17.8	2,1	
	354	17.0	16.9	16.9	1,0	
	355	17.0	17.1	17.0	0,1	
	356	17.9	17.7	17.8	1,1	
	357	17.6	17.5	17.5	1,0	
	358	17.5	17.3	17.4	1,1	
	359	17.3	17.4	17.4	1,0	Nebula?
	360	17.2	17.4	17.3	1,1	Nebula?
	361	18.0	17.5	17.7	3,2	
	362	17.7	17.5	17.6	1,1	
	363	18.1	18.0	18.0	1,0	
	364	17.3:	17.2:	17.3:	0,1	Star attached
	365	18.0	18.1	18.0	0,1	
	366	16.1	16.3	16.2	1,1	
	367	18.1	18.0	18.1	0,1	
	368	18.0	18.0	18.0	0,0	
	369	17.8	17.7	17.7	1,0	

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	370	16.9	16.6	16.8	1, 2
	371	18.0	18.0	18.0	0, 0
	372	17.9	17.9	17.9	0, 0
	373	17.4	17.4	17.4	0, 0
	374	17.7	17.6	17.7	0, 1
	375	16.9	16.6	16.8	1, 2
	376	17.9	17.7	17.8	1, 1
	377	17.3	17.4	17.3	0, 1
	378	17.2	17.2	17.2	0, 0
	379	17.5	17.4	17.5	0, 1
	380	18.0	18.1	18.0	0, 1
	382	17.1	17.3	17.2	1, 1
	383	16.4	16.4	16.4	0, 0
	384	17.6	17.4	17.5	1, 1
	385	17.4	17.3	17.3	1, 0
	386	17.5	17.4	17.4	1, 0
	387	16.4	16.6	16.5	1, 1
	388	17.4	17.2	17.3	1, 1
	389	17.8	17.7	17.7	1, 0
N.G.C.	217	14.5	14.5	14.5	0, 0

Nebula?

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1932phae.proj.2372M

-52 290

A14272

3 12 -32.5

TOTAL NO. OF NEBULAE IN CLUSTER = ~~102~~ 100

SEQUENCE IN CENTER, CLUSTER AT EDGE OF PLATE

No.	A14272 1ST MEASURE MAG.	A14272 1ST MEASURE MAG.	MEAN	RESIDUALS	REMARKS
859	17.8	17.8	17.8	0, 0	
860	17.9	17.9	17.9	0, 0	
861	17.9:	18.0:	18.0:	1, 0	Bright star close
862	17.3	17.2	17.3	0, 1	
863	17.3	17.3	17.3	0, 0	
864	18.0	18.0	18.0	0, 0	
865	18.0	18.0	18.0	0, 0	
866	17.9	17.9	17.9	0, 0	
867	16.7	16.8	16.8	1, 0	
868	17.2	17.3	17.3	1, 0	
869	17.9	18.0	18.0	1, 0	
870	17.7	17.8	17.7	0, 1	
871	17.8	17.9	17.8	0, 1	
872	17.7	17.7	17.7	0, 0	
873	17.3	17.3	17.3	0, 0	
874	17.5	17.7	17.6	1, 1	
875	17.9	17.9	17.9	0, 0	
876	17.7	17.8	17.7	0, 1	
877	17.7	17.8	17.8	1, 0	
878	17.2	17.2	17.2	0, 0	
879	17.8	17.8	17.8	0, 0	
880	17.5	17.6	17.6	1, 0	
881	17.8	17.8	17.8	0, 0	
882	17.5	17.3	17.4	1, 1	
883	17.4	17.2	17.3	1, 1	
884	17.5	17.2	17.3	2, 1	

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885	16.8	17.0	16.9	1, 1	
886	18.2	18.1	18.2	0, 1	
887	17.9	17.9	17.9	0, 0	
888	17.7	17.6	17.7	0, 1	
889	17.8	17.8	17.8	0, 0	
890	17.2	17.0	17.1	1, 1	
891	17.3	17.1	17.2	1, 1	
892	16.1	16.4	16.2	1, 2	
893	17.2	17.2	17.2	0, 0	
894	17.3	17.2	17.3	0, 1	
895	17.4	17.3	17.4	0, 1	
896	17.7:	17.5:	17.6:	1, 1	Faint star attached
897	17.8	18.0	17.9	1, 1	
943	17.9	17.8	17.9	0, 1	
944	17.0	17.0	17.0	0, 0	
945	17.8	17.8	17.8	0, 0	
946	17.7	17.7	17.7	0, 0	
2 stars 947	~~17.5~~	~~17.4~~	~~17.4~~	~~1, 0~~	~~Nebula?~~
948	17.3	17.2	17.3	0, 1	
949	17.2	17.1	17.2	0, 1	
950	18.0	18.1	18.1	1, 0	
951	17.5	17.4	17.4	1, 0	
952	16.4	16.6	16.5	1, 1	
953	14.5	14.5	14.5	0, 0	
954	17.6	17.3	17.5	1, 2	
955	17.1	17.0	17.0	1, 0	
956	17.9	17.8	17.9	0, 1	
957	17.4:	17.3:	17.3:	1, 0	Bright star attached
957a	18.0	17.9	18.0	0, 1	
958	17.7	17.8	17.7	0, 1	
959	17.6	17.3	17.4	2, 1	
960	16.9	16.9	16.9	0, 0	
961	17.2	17.3	17.3	1, 0	

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1932phae.proj.2342M

962	17.8	17.8	17.8	0,0	
963	17.9	17.9	17.9	0,0	
964	17.8	17.7	17.8	0,1	
965	17.7	17.6	17.7	0,1	
966	17.8	18.0	17.9	1,1	
967	17.4	17.3	17.4	0,1	
968	17.2	17.2	17.2	0,0	
969	17.3	17.3	17.3	0,0	
970	17.2	17.3	17.3	1,0	
971	17.8:	17.7:	17.8:	0,1	Faint star attached
972	16.9	17.2	17.0	1,2	
973	17.8	17.8	17.8	0,0	
974	16.9	17.0	16.9	0,1	
975	18.0	17.9	18.0	0,1	
976	17.8	17.7	17.7	1,0	
977	18.0	17.9	18.0	0,1	
978	17.7	17.7	17.7	0,0	
979	18.0	17.7	17.9	1,2	
980	16.8	16.7	16.8	0,1	Star close
981	16.9	16.8	16.9	0,1	
982	17.8	17.8	17.8	0,0	
983	17.2	16.8	17.0	2,2	

No. on A3339 — FROM A3339 (RED)

339a	10	17.2	17.1	17.2	0,1	
339b	11	17.1	16.7	16.9	2,2	
336	12	16.4	16.4	16.4	0,0	
271	14	17.4	17.3	17.3	1,0	
270	15	17.2	17.3	17.2	0,1	
276	16	15.7	15.7	15.7	0,0	
~~265~~ possibly 2 stars?	17	~~17.5~~	~~17.7~~	~~17.6~~	~~1,1~~	2 stars
335	18	15.4	15.4	15.4	0,0	

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1932phae.proj.234M

334		19	16.2	16.2	16.2	0,0
333		20	16.3	16.4	16.4	1,0
332		21	16.0	16.0	16.0	0,0
331		22	16.6	16.5	16.5	1,0
330		23	16.2	16.2	16.2	0,0
267		27	16.4	16.7	16.6	2,1
268		28	14.5	14.3	14.4	1,1
269		29	16.6	16.8	16.7	1,1
No corresponding nd. on A3339		32	16.8	16.7	16.7	1,0

No. on A4179 FROM A4179 (BLUE)

172	=	75	17.8	17.7	17.8	0,1
171		76	16.7	16.7	16.7	0,0
196		77	16.5	16.4	16.5	0,1
194	(not previously classified, probably no positions)	91	16.0	16.2	16.1	1,1

10

14

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1932phae.proj.234M

A 15387

20 00 −55.0

TOTAL NUMBER OF NEB. IN CLUSTER = 77 ✓ SEQUENCE IN CENTER : CLUSTER NEAR.

No.	A 15387 1ST MEASURE MAG.	A 15387 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
20	16.9	16.9	16.9	0, 0	
21	17.2	17.1	17.2	0, 1	
22	16.7	17.0	16.9	2, 1	
23	17.2	17.1	17.2	0, 1	✓ Nebula?
24	18.1	18.2	18.1	0, 1	✓ Nebula?
25	18.0	18.0	18.0	0, 0	✓ Nebula?
26	17.7	17.8	17.8	1, 0	
27	17.8	17.7	17.7	1, 0	✓ Nebula?
32	17.7	17.5	17.6	1, 1	
33	17.4	17.3	17.4	0, 1	✓ Nebula?
34	17.2	17.2	17.2	0, 0	
35	18.0	17.7	17.9	1, 2	
36	17.0	17.0	17.0	0, 0	
37	16.6	16.8	16.7	1, 1	
38	17.7	17.7	17.7	0, 0	
39	17.2	17.4	17.3	1, 1	
40	17.6	17.9	17.8	2, 1	
41	17.7	17.6	17.7	0, 1	
42	17.6	17.4	17.5	1, 1	
43	17.2	17.1	17.2	0, 1	
44	17.6	17.6	17.6	0, 0	
45	18.2	18.2	18.2	0, 0	
46	17.9	17.7	17.8	1, 1	
47	18.3	18.0	18.1	2, 1	Nebula?
48	17.2	17.3	17.2	0, 1	
52	17.1	16.8	16.9	2, 1	

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53	17.2	17.2	17.2	0,0	
54	17.1	17.0	17.0	1,0	
55	17.8	17.7	17.7	1,0	
56	17.6	17.6	17.6	0,0	
57	18.0	18.2	18.1	1,1	
58	17.9	18.2	18.0	1,2	
59	17.3:	17.2:	17.3:	1,1	Nebula? attached to 60
60	17.4:	17.3:	17.4:	0,1	Nebula? " " 59
60a	17.5	17.3	17.4	1,1	
61	18.1	18.2	18.1	0,1	Nebula?
62	18.1	18.1	18.1	0,0	
63	17.3	17.1	17.2	1,1	
64	17.2	17.2	17.2	0,0	Nebula?
65	17.3	17.2	17.2	1,0	
72	17.1	17.1	17.1	0,0	
73	18.2	18.0	18.1	1,1	
78	17.9	18.1	18.0	1,1	
79	17.3	17.3	17.3	0,0	
80	17.0	16.9	16.9	1,0	
81	17.9	17.6	17.8	1,2	
82	17.6	17.2	17.4	2,2	
83	16.2	16.4	16.3	1,1	
84	17.4	17.6	17.5	1,1	
84a	17.8	17.9	17.9	1,0	
85	17.7	17.8	17.8	1,0	
86	15.5	15.3	15.4	1,1	
87	17.7	17.7	17.7	0,0	
91	17.8	17.8	17.8	0,0	
92	17.9	17.6	17.7	2,1	
93	17.2	17.0	17.1	1,1	
94	17.3	17.3	17.3	0,0	
95	18.0	17.9	18.0	0,1	

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	107	17.4	17.4	17.4	0,0	
	108	17.0	17.0	17.0	0,0	
	109	17.9	17.8	17.8	1,0	
	110	17.3	17.4	17.3	0,1	
	111	17.2	17.2	17.2	0,0	
	112	17.6	17.4	17.5	1,1	
60	H.N. 2099	15.6	15.3	15.4	2,1	
59	2109	17.3	17.3	17.3	0,0	
	2112	17.1	17.1	17.1	0,0	
	2113	16.6	16.4	16.5	1,1	
	2114	14.8	14.5	14.7	1,2	
	2118	17.2	17.2	17.2	0,0	
	2119	15.3	15.1	15.2	1,1	
	2120	17.1	17.2	17.2	1,0	Nebula ??
	2123	14.8	14.9	14.9	1,0	
	2126	16.7	16.9	16.8	1,1	
	2157	18.1	18.0	18.0	1,0	Identification ?
	I.C. 4908	15.9	15.6	15.7	2,1	
	4919	16.6:	17.0:	16.8:	2,2	Defective image.

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1932phae.proj.2342M

A 15376

14 20 − 30.0

TOTAL NO. OF NEBULAE IN CLUSTER = ~~127~~ 128 SEQUENCE IN CENTER, CLUSTER FAIRLY CLOSE.

No.	A 15376 1ST MEASURE MAG.	A 15376 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
191	17.5	17.5	17.5	0,0	Nebula?
192	17.5	17.4	17.4	1,0	
193	17.4	17.3	17.3	1,0	
194	17.1	16.9	17.0	1,1	
195	17.2	17.1	17.2	0,1	
196	17.2:	17.1:	17.1:	1,0	Faint star involved
197	15.6	15.6	15.6	0,0	
198	17.5	17.4	17.4	1,0	Nebula?
216	17.1	17.2	17.1	0,1	
217	16.6	16.5	16.6	0,1	
218	17.4	17.2	17.3	1,1	Nebula?
219	17.2	17.1	17.1	1,0	
220	17.0	16.9	17.0	0,1	
221	16.9	17.0	16.9	0,1	
222	16.8	16.6	16.7	1,1	
223	17.5	17.4	17.4	1,0	Nebula?
227	17.1	17.1	17.1	0,0	
228	16.0	16.0	16.0	0,0	
229	15.3	15.4	15.3	0,1	
230	15.5	15.6	15.6	1,0	
231	17.6	17.4	17.5	1,1	Nebula?
232	17.0	17.0	17.0	0,0	
233	17.4	17.1	17.2	1,1	
234	17.1	17.2	17.1	0,1	Nebula?
235	16.7	16.6	16.6	1,0	
236	17.1	17.2	17.1	0,1	

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237	16.6	16.6	16.6	0,0	
238	17.3	17.5	17.4	1,1	
239	17.5	17.5	17.5	0,0	
240	17.3	17.4	17.4	1,0	
241	17.1	17.0	17.1	0,1	
242	17.6	17.5	17.6	0,1	
243	17.6	17.4	17.5	1,1	
244	17.1	17.1	17.1	0,0	
245	15.7	15.9	15.8	1,1	
246	17.5	17.3	17.4	1,1	
259	17.1	17.0	17.1	0,1	
260	17.4	17.5	17.4	0,1	
261	17.5	17.2	17.3	2,1	
262	17.3	17.1	17.2	1,1	
263	17.5	17.5	17.5	0,0	
266	17.1:	17.0:	17.0:	1,0	Faint star attached
267	17.0	17.1	17.1	1,0	
268	17.1	17.2	17.2	1,0	
269	17.6	17.4	17.5	1,1	Nebula?
270	17.4	17.2	17.3	1,1	
271	17.0	17.0	17.0	0,0	
272	15.1	14.8	14.9	2,1	
274	17.5	17.5	17.5	0,0	
275	17.2	17.4	17.3	1,1	
276	17.5	17.5	17.5	0,0	
277	17.1	17.2	17.2	1,0	
278	16.6	16.5	16.5	1,0	
280	17.1	17.1	17.1	0,0	Nebula?
281	17.1	17.0	17.0	1,0	Nebula?
282	17.1	17.0	17.1	0,1	

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283	17.0	17.0	17.0	0,0	Nebula?
284	16.7	16.8	16.8	1,0	
285	17.4	17.5	17.5	1,0	
286	17.2	17.3	17.2	0,1	
287	17.6	17.6	17.6	0,0	
288	17.1	17.1	17.1	0,0	
289	16.5	16.6	16.5	0,1	
290	16.6	16.8	16.7	1,1	
291	17.5	17.1	17.3	2,2	
292	17.2	17.4	17.3	1,1	Nebula?
293	17.3	17.3	17.3	0,0	Nebula?
294	16.5	16.4	16.5	0,1	Nebula?
295	17.2	17.1	17.2	0,1	Nebula?
296	15.9	16.3	16.1	2,2	
297	16.5	16.5	16.5	0,0	
298	16.5	16.5	16.5	0,0	
299	17.4	17.5	17.4	0,1	
300	17.6	17.5	17.5	1,0	
301	17.7	17.6	17.6	1,0	
302	17.4	17.4	17.4	0,0	
303	17.2	17.1	17.1	1,0	
304	17.5	17.5	17.5	0,0	
305	17.4	17.3	17.4	0,1	
306	17.6	17.4	17.5	1,1	
307	17.7	17.5	17.6	1,1	
308	17.2	17.0	17.1	1,1	
309	17.5	17.2	17.3	2,1	
310	17.2	16.9	17.0	2,1	
311	17.0	16.9	16.9	1,0	
312	17.0	17.1	17.0	0,1	
313	16.9	16.6	16.8	1,2	

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1932phae.proj.234M

314	17.1	17.0	17.0	1,0	
315	17.5	17.6	17.5	0,1	
316	17.2	17.5	17.4	2,1	
317	17.5	17.4	17.5	0,1	
318	17.6	17.4	17.5	1,1	
319	17.5	17.6	17.6	1,0	Nebula?
320	17.6	17.4	17.5	1,1	
321	17.5	17.5	17.5	0,0	Nebula?
322	17.0	17.0	17.0	0,0	
323	17.5	17.4	17.5	0,1	
324	17.1	17.0	17.0	1,0	
325	17.5	17.6	17.5	0,1	
326	16.8	17.1	17.0	2,1	
327	16.9	17.3	17.1	2,2	
328	17.0	17.0	17.0	0,0	
329	16.7	16.8	16.7	0,1	
330	16.5	16.6	16.6	1,1	
331	16.1	15.8	15.9	2,1	
332	17.5	17.3	17.4	1,1	
377	17.0	17.0	17.0	0,0	
378	17.2	17.4	17.3	1,1	
379	17.4	17.4	17.4	0,0	
389	15.9	15.9	15.9	0,0	
FROM A 13029 (RED)					
1	15.4	15.3	15.4	0,1	
2	15.0	14.8	14.9	1,1	
3	16.4	16.6	16.5	1,1	
FROM A 13037 (BLUE)					
1	17.6	17.4	17.5	1,1	Nebula?
2	16.3	16.4	16.4	0,0	
3	15.7	15.6	15.7	0,1	

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4	15.9	15.7	15.8	1, 1
5	15.6	15.5	15.6	0, 1
6	15.2	14.8	15.0	2, 2
7	16.8	17.0	16.9	1, 1
8	15.9	15.6	15.7	2, 1
9	17.2	17.1	17.2	0, 1
10	16.4	16.6	16.5	1, 1
11	17.3	17.0	17.2	1, 2
12	15.6	15.5	15.5	1, 0
13	15.5	15.3	15.4	1, 1
14	16.4	16.6	16.5	1, 1
N.G.C. 5626	14.7	14.8	14.8	1, 0

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1932phae.proj.234M

Mc Coy

A 12415

TOTAL No. OF NEB. IN CLUSTER = 526

Magnitudes measured by S.F.M.	No.	MEAN MAG.
	233	16.2
	662	17.2
	561	17.4
	230	17.2
MENZEL 1332-3151.7	560	16.0
	559	17.2
	558	16.0
	557	17.3
	221	16.3
	556	16.5
	555	17.1
	554	16.9
MENZEL 1332-3127.7	220	16.0
	761	17.7
	540	17.5
	768	17.3
	766	17.4
	767	16.8
	1065	17.7
	765	17.1
	764	17.1
	763	17.0
	762	17.3
	760	17.6
	759	17.2
	1031	17.5

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	772	16.9
1329 -3151.7	216	16.4
	775	17.3
	774	17.4
	773	16.8
	752	17.6
	be	16.0
	758	17.0
1330-3117.6	222	16.0
	757	17.1
1330 -3115.8	223	15.8
	756	17.5
	755	16.7
	754	17.3
	751	17.2
	750	16.9
	749	17.3
	748	17.4
	746a	17.2
1329-3117.3	224	17.0
	1032	17.3
	753	17.0
	685	17.0
1329-3114.1	684	16.3
1328 -3114.1	686	16.0
1328 -3113.6	681a	17.3
	681	17.4
	682	17.2
	683	17.2
	739	17.3

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	287	17.2
	694	17.1
	678	17.2
	675	17.3
1329-3105.5	676	16.8
1329-3106.3	677	16.4
1329-3106.7	674	15.7
	680	17.5
	1033	17.4
	228a	16.0
	228b	16.8
	1000	17.2
	1035	17.7
	673	17.2
	672	16.3
	671	17.5
	670	17.5
	1034	17.3
1329-3055.1	669	16.7
	668	17.2
	667	17.6
1329-3055.7	666	17.1
1329-3057.9	665	16.6
	664	17.2
	663	17.1
	231	17.5
	232	17.2
	661	17.4
	657	17.7
	658	17.4

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	656	17.5
	659	15.9
	660	16.6
1330 -3021.9	239	14.4
1330 -3029.9	238	14.9
	1066	17.2
	652	17.6
	240b	17.5
	240a	16.8
	1078	17.1
	653	17.6
	655	17.6
	654	17.5
	1045	17.0
	1042	17.4
	1043	17.5
	1044	17.2
	1040	17.2
	707	17.5
	1030	17.1
	1028	17.4
	1029	17.5
	1019	17.1
	1018	16.5
	703	17.0
	1026a	17.6
	1027	16.9
	290	17.0
	286	17.2
	288	17.0

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1932phae.proj.293M

	289	16.7
	227a	16.0
	227b	17.0
1328-3057.8	227c	16.8
	227d	16.8
1327-3057.7	292a	16.3
	292	17.1
	227	17.3
	227e	17.0
1328-3050.9	229	16.7
	704	17.5
	705	17.6
	706	17.4
1327-3106.5	697a	16.2
	697	17.2
	696	17.1
1327-3109.4	226a	16.6
	226d	17.3
1327-3109.6	226b	15.7
	226c	17.1
	1020	17.1
	1021	17.1
	1022	17.3
	1023	17.1
	1024	17.2
	1025	17.5
	1067	17.7
	1026b	17.5
	T26	16.6
	T27	17.3

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1327-3118.9	T28	16.6
	T24	17.6
	1038	17.0
	T30	16.8
	T31	17.0
1327-3127.1	122	15.8
	T33	17.5
	T35	17.6
	T36	17.7
	T37	17.3
	225	16.7
	T38	17.5
	T40	17.6
	T41	17.5
	T42	17.2
	T43a	17.3
	T44	17.4
	T43b	17.0
	T46b	17.2
	T34	16.8
	T32	17.5
	T76	17.1
	T77	17.5
	1036	17.5
	T80	17.2
	1037	16.6
	121	16.6
	807	17.5
	1047	16.5
	1048	17.4

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1932phae.proj.291M

	805	17.5
	64	17.0
	804	17.3
1331-3157.1	805a	17.1
	808	16.2
	781	17.3
	809a	17.3
1325-3138.3	140	17.1
	810	17.0
	58	16.7
	811	17.0
	1050	16.9
	1051	16.5
	1049	16.6
	726	17.5
	725	17.3
	722	17.6
	721	17.5
	720	17.3
	723	16.6
	1001	17.0
	813	16.4
	814	16.5
	812	17.0
	818	16.6
	816	17.3
	817	17.3
	815	17.0
	135a	16.2
	135b	16.7

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1932phae.proj.234M

	136	16.3
13h26m-31°15'.9	137	15.4
	853	17.3
	850	16.8
	848	17.5
	847	17.7
	55a	16.2
	55b	16.0
13h25m-31°10'.1	54	16.0
	862	15.8
	849	16.6
	851	16.4
	852	17.0
	854	17.1
	858	16.6
	1069	17.1
	718	17.2
	717	17.3
	859	16.7
	861	17.7
	1070	17.4
	716	17.3
	860	16.8
	863	17.2
13h24m-31°03'.9	56	15.5
	864	17.0
	865	17.0
	138	16.8
	1068	17.1
	139	16.4

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1932phae.proj.231M

1018	17.2
1071	17.4
871	17.5
870	17.6
869	17.1
868	17.7
867	17.4
866	17.3
715	15.9
699	17.1
698	17.7
53	16.9
719	17.6
714	17.8
713	17.5
712	17.5
711	17.3
1039	17.6
710	16.8
147	17.2
872	17.6
873	16.2
148	17.0
709	17.0
874	17.0
708	17.5
1041	17.5
1046	17.6
651	16.9
650	17.2

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1932phae.proj.2344M

649	16.9
648	17.1
645	17.8
647	17.2
646	17.3
149	16.9
150a	17.3
150b	16.7
644	17.0
643	17.5
1053	17.5
642	17.0
641	17.2
640	17.7
639	17.2
638	17.4
637	17.4
636	17.6
875	17.3
65a	17.2
65b	17.1
66a	16.8
66b	16.2
878	17.8
153	17.6
154	17.3
1052	17.6
879	17.3
880	17.4
49	16.0

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1932phae.proj.23:M

	1017	16.8
	1016	16.8
	1015	17.1
	151	16.8
	885	16.5
	152	16.0
	952	16.8
	951	17.1
	ad	15.4
1320-3013.4	33	15.8
	953	17.3
	884	16.7
	1056	17.0
	36	16.8
	1072	16.6
	411a	17.1
	1078	16.8
	411b	17.6
	410a	17.6
	410b	17.5
	410c	17.2
	410d	17.3
	410e	17.5
	410f	17.1
	410g	17.3
	410h	17.3
	410i	17.4
	410k	17.5
	410l	17.3
	410m	16.5

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1932phae.proj.234M

	410n	17.4
	409	16.8
	882	16.5
	1079	17.7
	881	17.2
	1080	17.7
	14c	17.4
	14b	17.1
	14a	17.3
	891	17.7
	883	16.5
	146b	16.4
	146a	17.0
	890	17.4
	1012	16.4
1324-3049.1	50	15.9
1324-3047.0	51	16.0
	892	16.5
	892b	17.0
	889	16.0
	892c	17.0
	143	16.6
	888	17.1
	1019	17.1
	37	15.4
	895	17.5
	900	17.0
	896	16.8
	897	16.6
	898	16.9

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1932phae.proj.23:M

	899	17.7
	894	16.6
	893	17.0
	141c	16.4
	141b	17.2
	1073	17.1
	902	15.4
	1074	17.2
	141d	17.1
	141e	17.0
	141f	17.4
	907	17.3
	922	16.6
	1013	16.8
	921	17.0
	920	17.0
	919	17.0
	918	16.2
	924	17.4
1324-3053.9	52	16.2
	923	17.0
	917	16.9
	av	16.2
	916	17.0
	134	15.2
	908	15.8
	133	16.6
	912	17.0
	909	16.4
	910	17.1

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1932phae.proj.234M

	911	16.8
	1075	16.8
	905	17.0
	906	17.1
	904	16.7
	141a	17.4
	131d	15.8
	131c	17.2
	131b	17.0
	131ε	15.6
	131a	17.0
	914	17.0
1322-3120.1	38	14.8
	913	16.6
	139	16.2
	138c	17.1
	915	17.2
	138b	17.1
	835	16.4
	832	16.3
	833	17.2
	830	17.0
	834	16.7
	831	16.5
	138a	17.1
	840	17.2
	836	17.1
	823	16.9
	820	17.4
	821	17.2

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1932phae.proj.23:M

837	17.3
822	17.3
838	17.3
839	16.6
843	17.1
842	17.1
844	17.0
845	16.4
841	17.0
819	17.1
57	17.0
929	17.2
824	17.4
825	16.6
1076	17.3
132	17.4
829	16.9
826	16.9
827	16.0
123	16.8
809b	17.0
124	16.6
810	17.1
1055	16.7
1054	16.9
ar	16.7
828	17.0
930	16.7
125	16.9
39	14.8

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1932phae.proj.234M

937	17.0
as	16.0
927	16.7
928	17.1
156a	17.3
156b	17.2
156c	17.1
12a	17.0
12b	16.4
1059	16.7
925	17.1
926	16.0
938	16.3
128a	17.2
128b	16.6
r	16.2
1077	17.2
at	17.3
903	17.3
901	17.0
n	16.0
939	17.5
940	16.7
941	17.1
35a	16.7
35b	16.4
35c	16.2
35d	14.4
1081	16.4
142	15.9

1322 - 3059.1

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1932phae.proj.294M

	91a	17.3
	943	17.1
	91b	17.0
	91c	17.0
	91d	17.0
	946	17.1
	91e	17.1
	947	17.0
	942	16.8
	34	15.2
	145	15.8
	886	17.1
	144	16.9
	948	17.1
	949	15.7
	au	17.3
	u	16.4
	950	16.6
	92	16.8
	415	16.7
	f	16.8
	ac	16.6
	945	17.0
	1064	17.2
	90	15.2
1317-3056.3	85	15.2
	89b	16.9
	944	16.8
	87	16.0
	m	14.8

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1932phae.proj.234M

1062	16.0
998	17.1
a	16.6
f	17.0
9	16.4
10	15.8
1063	16.6
83	15.6
86a	15.5
86b	16.4
1061	17.0
88c	17.7
88d	17.8
88b	16.7
88a	16.8
1060	17.0
82	16.9
93	16.7
80b	16.0
80a	17.1

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1932phae.proj.294M

N.B: Before this group is worked up dr. Shapley should see A15879 in order to determine the correct limits of this group.

A 15844

4 20 -55.0

TOTAL NO. OF NEBULAE IN CLUSTER = 219 220

SEQUENCE IN LEFT CENTER, CLUSTER IN LOWER RIGHT HALF

	No.	A15844 1ST MEASURE MAG.	2ND MEASURE MAG	MEAN	RESIDUALS	REMARKS
	538	17.3	17.3	17.3	0, 0	
cf. A 4183	539	16.1	16.0	16.0	1, 0	
	540	16.7	16.7	16.7	0, 0	
	541	17.3	17.2	17.3	0, 1	
cf. A 4183	542	16.6	16.5	16.6	0, 1	
	543	17.2	17.3	17.3	1, 0	
	544	17.4	17.5	17.4	0, 1	
	571	17.5	17.4	17.5	0, 1	
	572	17.3	17.2	17.2	1, 0	
cf. A4183	578	16.2	16.5	16.4	2, 1	
	644	17.3	17.3	17.3	0, 0	
	645	16.6	16.8	16.7	1, 1	
	646	17.2	17.2	17.2	0, 0	
	647	16.7	16.9	16.8	1, 1	
	648	17.2	17.3	17.3	1, 0	
	649	17.5	17.5	17.5	0, 0	
	650	17.1	16.9	17.0	1, 1	
	651	16.7	16.8	16.7	0, 1	
	651a	17.2	17.0	17.1	1, 1	
	652	16.9	17.0	17.0	1, 0	
	653	17.0	17.3	17.1	1, 2	
cf. A4183	654	16.2	16.3	16.2	0, 1	
cf. A 4183	655	16.9	16.9	16.9	0, 0	
	656	17.3	17.3	17.3	0, 0	
	657	17.4	17.5	17.5	1, 0	
	658	16.7	16.9	16.8	1, 1	
	659	17.3	17.3	17.3	0, 0	

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1932phae.proj.2344M

660	17.2	17.4	17.3	-1, 1	
661	17.4	17.4	17.4	0, 0	
662	17.4	17.5	17.4	0, 1	
663	16.8	16.9	16.9	-1, 0	
664	16.7	16.9	16.8	-1, 1	
665	17.4	17.3	17.3	1, 0	
666	17.3	17.4	17.4	-1, 0	
667	16.9	17.1	17.0	-1, 1	
668	16.5	16.4	16.5	0, -1	
669	16.6	16.8	16.7	-1, 1	
670	16.1	16.1	16.1	0, 0	
671	16.8	16.9	16.9	-1, 0	
672	16.9	17.0	17.0	-1, 0	
673	16.6	16.6	16.6	0, 0	
674	17.5	17.5	17.5	0, 0	
675	17.3	17.3	17.3	0, 0	
676	16.9	16.9	16.9	0, 0	
677	16.9	16.9	16.9	0, 0	
678	17.3	17.1	17.2	1, -1	
679	17.3	17.3	17.3	0, 0	
680	17.4	17.4	17.4	0, 0	
681	17.2	17.3	17.3	-1, 0	
681a	16.8	16.7	16.8	0, -1	
682	16.9	16.9	16.9	0, 0	
683	17.1	17.1	17.1	0, 0	
684	16.9	17.0	17.0	-1, 0	
685	17.4	17.3	17.3	1, 0	Nebula?
686	16.6	16.8	16.7	-1, 1	
689	16.9	16.9	16.9	0, 0	
690	16.8	16.7	16.8	0, -1	
691	17.2	17.2	17.2	0, 0	

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1932phae..proj..234M

692	17.3	17.2	17.3	0,1	
693	16.5	16.6	16.6	1,0	
694	16.4	16.4	16.4	0,0	
695	16.0	16.0	16.0	0,0	
696	16.8	16.7	16.7	1,0	
697	16.3	16.2	16.2	1,0	
698	17.1	17.0	17.1	0,1	
699	16.9	17.0	17.0	1,0	
699a	16.8	16.7	16.7	1,0	attached to I 2082
700	16.1	16.1	16.1	0,0	
701	17.0	17.3	17.2	2,1	
702	16.9	17.1	17.0	1,1	
703	17.0	17.2	17.1	1,1	
704	17.3	17.1	17.2	1,1	
705	17.0	16.9	17.0	0,1	
706	16.6	16.5	16.5	1,0	
707	17.0	16.9	17.0	0,1	
708	16.9	16.7	16.8	1,1	
709	16.4	16.2	16.3	1,1	
710	17.0	17.1	17.1	1,0	
711	16.6	16.8	16.7	1,1	
712	17.0	17.2	17.1	1,1	
713	16.5	16.6	16.6	1,0	
713a	17.0	17.0	17.0	0,0	
714	16.8	16.8	16.8	0,0	
715	17.3	17.4	17.3	0,1	
716	17.2	17.5	17.4	2,1	
717	17.5	17.5	17.5	0,0	
718	17.2	17.4	17.3	1,1	Star attached
719	16.5	16.6	16.5	0,1	
720	17.0	17.1	17.0	0,1	

might be

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1932phae.proj.2344M

721	16.9	17.1	17.0	1, 1	
722	17.3	17.3	17.3	0, 0	
723	17.3:	17.5:	17.4:	1, 1	Star attached
724	16.9	16.9	16.9	0, 0	
725	16.6	16.7	16.7	1, 0	
726	16.0	16.0	16.0	0, 0	
727	17.2	17.3	17.2	0, 1	
728	17.0	16.9	16.9	1, 0	
729	16.9	17.0	17.0	1, 0	
730	17.4	17.5	17.5	1, 0	
731	16.9	16.8	16.8	0, 0	
732	17.1	17.3	17.2	1, 1	
732a	17.4	17.4	17.4	0, 0	
733	16.1	16.2	16.1	0, 1	
734	16.9	17.1	17.0	1, 1	
735	16.5	16.6	16.6	1, 0	
736	17.3	17.3	17.3	0, 0	
736a	17.2	17.2	17.2	0, 0	
737	17.3	17.4	17.3	0, 1	
740	17.2	17.2	17.2	0, 0	
741	17.2	17.3	17.2	0, 1	
742	16.7	16.9	16.8	1, 1	
743	17.3	17.3	17.3	0, 0	Nebula?
744	16.0	16.2	16.1	1, 1	
745	16.6	16.8	16.7	1, 1	
746	16.7	16.9	16.8	1, 1	
747	16.4	16.6	16.5	1, 1	
748	16.9	16.8	16.9	0, 1	
749	16.5	16.6	16.6	1, 0	
750	17.0	17.0	17.0	0, 0	
751	17.4	17.3	17.3	1, 0	
752	16.9:	16.8:	16.8:	1, 0	Star attached

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1932phae.proj.234.TM

753	15.9	16.0	15.9	0,1	
754	17.3	17.3	17.3	0,0	
755	16.8	16.8	16.8	0,0	
756	16.6	16.7	16.6	0,1	
757	16.5	16.6	16.5	0,1	
757a	16.9	16.9	16.9	0,0	
758	17.3	17.3	17.3	0,0	
758a	17.4	17.4	17.4	0,0	
759	16.9	17.0	17.0	1,0	
760	15.9	16.0	15.9	0,1	
761	17.3	17.0	17.2	1,2	
762	16.9	16.8	16.9	0,1	
763	17.3	17.2	17.2	1,0	
764	17.4	17.4	17.4	0,0	
765	17.3	17.3	17.3	0,0	
766	16.9	17.0	16.9	0,1	
767	17.2	17.3	17.2	0,1	
768	16.6	16.6	16.6	0,0	
769	16.7	16.6	16.7	0,1	
770	16.6	16.5	16.6	0,1	
771	16.9	17.0	16.9	0,1	
772	16.2	16.2	16.2	0,0	
773	17.6	17.4	17.5	1,1	
774	16.6	16.8	16.7	1,1	
775	17.4	17.3	17.3	1,0	
776	17.3	17.3	17.3	0,0	Nebula?
777	17.5	17.5	17.5	0,0	
778	16.2	16.3	16.2	0,1	
779	16.8	16.8	16.8	0,0	
780	17.5	17.4	17.5	0,1	Nebula?
781	17.4	17.3	17.4	0,1	

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1932phae.proj.2344M

782	17.3	17.3	17.3	0,0	
783	17.4	17.3	17.3	1,0	
784	17.2	17.0	17.1	1,1	
785	17.5	17.4	17.4	1,0	
786	17.2	17.0	17.1	1,1	
787	16.6	16.4	16.5	1,1	
788	16.9	17.0	16.9	0,1	
789	16.8	16.8	16.8	0,0	Nebula?
790	16.2	16.4	16.3	1,1	
791	17.1	17.2	17.1	0,1	
792	17.1	17.1	17.1	0,0	
792a	16.8	16.7	16.8	0,1	
793	17.4	17.4	17.4	0,0	
794	16.8	16.8	16.8	0,0	
795	17.3	17.1	17.2	1,1	
796	17.3	17.1	17.2	1,1	
797	17.0	17.1	17.1	1,0	
798	16.6	16.5	16.6	0,1	
799	16.6	16.8	16.7	1,1	
842	16.1	16.1	16.1	0,0	
843	17.4	17.3	17.3	1,0	
844	16.9	16.9	16.9	0,0	
845	17.3	17.2	17.2	1,0	
846	16.9	16.8	16.9	0,1	
859	17.0	16.9	17.0	0,1	
860	17.3	17.3	17.3	0,0	
863	16.5	16.7	16.6	1,1	
863a	17.3	17.2	17.3	0,1	
864	17.3	17.1	17.2	1,1	
865	16.9	16.9	16.9	0,0	
866	16.6	16.6	16.6	0,0	
867	16.6	16.6	16.6	0,0	

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1932phae.proj.234M

868	16.9	16.8	16.8	1,0	
869	17.2	17.2	17.2	0,0	
I.C.					
2071	16.6	16.6	16.6	0,0	
2073	16.0	15.9	15.9	1,0	
2079	16.1	16.1	16.1	0,0	
2081	16.0	15.9	16.0	0,1	
2082	16.1	16.2	16.1	0,1	attached to 699a
2083	16.0	16.2	16.1	1,1	
2086	16.5	16.6	16.6	1,0	
FROM A 15879 (IN GREEN)					
1045	17.4	17.5	17.4	0,1	
1048	17.2	17.2	17.2	0,0	
1052	17.3	17.4	17.3	0,1	
1055	17.1	17.0	17.0	1,0	
1056	17.3	17.3	17.3	0,0	
1057	17.3	17.3	17.3	0,0	
1059	17.4	17.4	17.4	0,0	
1061	17.3	17.4	17.3	0,1	
1062	17.4	17.5	17.4	0,1	
1066	17.5	17.6	17.5	0,1	
1067	17.3	17.2	17.2	1,0	
1068	17.3	17.2	17.3	0,1	
1072	17.4	17.4	17.4	0,0	
1073	17.3	17.5	17.4	1,1	
1075	17.3	17.4	17.4	1,0	
1076	17.4	17.4	17.4	0,0	
1079	17.1	17.2	17.1	0,1	
1083	17.0	17.2	17.1	1,1	
1084	17.3	17.4	17.4	1,0	
1085	17.2	17.3	17.3	1,0	
1089	17.6	17.6	17.6	0,0	
1090	17.4	17.4	17.4	0,0	
1092	17.5	17.4	17.4	1,0	
1096	17.3	17.1	17.2	1,1	
1099	17.2	17.1	17.1	1,0	
1100	17.4	17.3	17.4	0,1	
1101	17.2	17.2	17.2	0,0	

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1932phae.proj.2344M

A14184

18 01 −77.5

TOTAL NO. OF NEBULAE IN CLUSTER = 41 ✓ CLUSTER NEAR CENTER, SEQUENCE CLOSE

No.	A14184 1ST MEASURE MAG.	A14184 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
123	17.6:	17.7:	17.7:	1,0	Star close
124	17.8	17.9	17.8	0,1	
125	17.9	17.9	17.9	0,0	
126	17.9	17.9	17.9	0,0	
127	16.8	16.7	16.7	1,0	
128	18.1	18.0	18.0	1,0	Nebula?
129	17.9	17.7	17.8	1,1	
135	17.0	16.9	16.9	1,0	
136	16.7	16.6	16.6	1,0	
137	17.9	17.9	17.9	0,0	
163	17.8	17.8	17.8	0,0	
164	18.1	18.1	18.1	0,0	
165	16.9	17.1	17.0	1,1	
166	16.2	16.3	16.3	1,0	
167	17.2:	17.2:	17.2:	0,0	Faint star attached
168	16.7:	16.5:	16.6:	1,1	Bright " "
169	17.9	18.0	18.0	1,0	
170	17.4	17.3	17.3	1,0	
171	17.5:	17.5:	17.5:	0,0	Faint star attached
172	16.4	16.4	16.4	0,0	
173	17.5	17.4	17.4	1,0	
174	17.6:	17.5:	17.5:	1,0	Defect close
175	17.5	17.4	17.4	1,0	Nebula?
176	17.5	17.6	17.5	0,1	
177	17.3	17.0	17.2	1,2	
178	17.5	17.3	17.4	1,1	

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1932phae.proj.234M

179	17.9	17.9	17.9	0,0	
180	16.5	16.6	16.5	0,1	
181	16.3	16.5	16.4	1,1	
182	17.0	16.9	17.0	0,1	
183	15.6	15.4	15.5	1,1	
184	17.6	17.5	17.5	1,0	
185	16.3	16.3	16.3	0,0	
186	17.9	17.9	17.9	0,0	
187	18.1	18.0	18.0	1,0	
188	16.8	16.9	16.9	1,0	
189	16.9	16.9	16.9	0,0	
215	16.5	16.5	16.5	0,0	
216	16.3	16.3	16.3	0,0	Bright star close
217	14.2	14.1	14.2	0,1	
218	16.5	16.6	16.5	0,1	

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1932phae.proj.2344M

A 15883

10 30 -27.5

TOTAL No. OF NEB. IN CLUSTER = 71

CLUSTER JUST OFF CENTER, SEQUENCE CLOSE

F.W.W.	No.	A15883 1ST. MEASURE MAG.	A15883 2ND MEASURE MAG.	MEAN	RESIDUALS	
267	195	17.0	17.2	17.1	1,1	
268	196	17.4	17.5	17.4	0,1	
269	197	17.3	17.4	17.3	0,1	
270	198	17.0:	16.8:	16.9:	1,1	Star attached
271	199	16.3:	16.1:	16.2	1,1	Star attached
142	200	17.6	17.5	17.6	0,1	
272	201	17.2	17.3	17.3	1,1	
140	202	16.4	16.4	16.4	0,0	
141	231	17.1	17.2	17.2	1,0	
	~~232~~	..	..			(2 stars)
143	233	17.5	17.4	17.5	0,1	
144	234	16.6	16.6	16.6	0,0	
145	235	16.2	16.4	16.3	1,1	
146	235a	17.0	17.3	17.2	1,1	
147	236	17.4	17.4	17.4	0,0	
148	237	16.9	17.0	16.9	0,1	
149	238	17.2	17.2	17.2	0,0	
150	239	16.3	16.5	16.4	1,1	
151	240?	17.4	17.4	17.4	0,0	Two stars?
152	241	16.2	16.4	16.3	1,1	
153	242	16.7	16.9	16.8	1,1	
154	243	17.1	17.3	17.2	1,1	
155	244	17.3	17.4	17.4	1,0	
156	245	17.0	17.2	17.1	1,1	
157	246	16.0	15.8	15.9	1,1	
158	246a	17.2	17.2	17.2	0,0	
280	247	17.4	17.4	17.4	0,0	

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1932phae.proj.234M

279	255					
276a	256					
281	248	16.0	16.1	16.1	1,0	
282	249	16.5	16.5	16.5	0,0	
283	250	16.3	16.3	16.3	0,0	
284	251	15.4	15.2	15.3	1,1	
285	252	15.7	15.7	15.7	0,0	
286	253	16.0	16.0	16.0	0,0	
287	254	16.5	16.5	16.5	0,0	
288	307	17.1	17.3	17.2	1,1	
289	307a	17.3	17.5	17.4	1,1	
290	308	17.0:	17.0:	17.0:	0,0	Faint star attached
291	309	16.5	16.5	16.5	0,0	
292	310	16.9	16.8	16.8	1,0	
292a						
cf. A 14720	311	15.6	15.5	15.5	1,0	
293	312	16.5:	16.6:	16.6:	1,0	Very bright star close
159	313	16.0	16.0	16.0	0,0	
160	314	17.3	17.3	17.3	0,0	Nebula?
161	315	17.1	17.2	17.1	0,1	
162	316	16.2	16.3	16.2	0,1	
163	317	17.3	17.4	17.3	0,1	
164	318	17.4	17.5	17.4	0,1	
165	319	17.0	17.0	17.0	0,0	
	~~319a~~					
294	320	17.0	17.0	17.0	0,0	
295	321	17.2	17.3	17.3	1,0	
166	322	16.5	16.6	16.6	1,0	
166a	323	17.4	17.4	17.4	0,0	
167	331	17.6	17.6	17.6	0,0	
From A14720 (in green)						
	1	15.0	14.8	14.9	1,1	
	2	16.2	16.2	16.2	0,0	
	3	16.4	16.5	16.5	1,0	

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	4	17.0	17.2	17.1	1, 1	
	5	16.4	16.4	16.4	0, 0	
	6	15.8	16.1	16.0	2, 1	
	7	15.7	15.6	15.7	0, 1	
	8	14.7	14.4	14.6	1, 2	
	9	16.0	16.0	16.0	0, 0	
296	10	15.4	15.6	15.5	1, 1	
297	11	16.4	16.6	16.5	1, 1	
298	12	16.0	15.8	15.9	1, 1	
	N.G.C.					
	3308 spheroidal	14.2	14.2	14.2	0 0	
	3309 spheroidal	13.6	13.7	13.7	1, 0	
	3311 spheroidal	14.6	14.8	14.7	1, 1	
	3312 spiral!	14.4:	14.2:	14.3:	1, 1	Two stars involved
	3314 spiral	15.5	15.5	15.5	0, 0	
	3316 spheroidal	14.0	13.9	14.0	0, 1	
Identification?	3317 ft.	16.5	16.5	16.5	0, 0	Position wrong in N.G.C.? Plots there, but object too faint.

N.B. Do 3317 to be identified as 303 or 388 on A 14270? HS

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A 15884

3 20 −40.0

TOTAL NO. OF NEB. IN CLUSTER = 76 ✓

SEQUENCE IN CENTER, CLUSTER AT EDGE

Cluster No. 3

49

No.	15884 1ST MEASURE MAG.	15884 2ND MEASURE MAG.	MEAN	RESIDUALS	
1052	17.4	17.6	17.5	1,1	
1053	16.9	16.9	16.9	0,0	
1054	16.3	16.3	16.3	0,0	
1057	17.5	17.6	17.5	0,1	
1058	17.2	17.4	17.3	1,1	
1059	17.5	17.6	17.6	1,0	
1060	16.2	16.3	16.3	1,0	
1061	17.7	17.7	17.7	0,0	
1062	16.7	16.7	16.7	0,0	
1063	16.8	16.9	16.8	0,1	Nebula?
1064	17.0	17.0	17.0	0,0	
1065	17.2	17.5	17.3	1,2	
1066	16.9	16.9	16.9	0,0	
1066a	17.5	17.5	17.5	0,0	
1067	16.7	16.7	16.7	0,0	
1068	17.2	17.3	17.2	0,1	
1069	17.3	17.5	17.4	1,1	
1070	16.5	16.6	16.5	0,1	
1071	16.2	16.2	16.2	0,0	
1072	16.1	16.1	16.1	0,0	
1073	17.8	17.8	17.8	0,0	
1074	17.6	17.5	17.6	0,1	
1075	17.2	17.3	17.3	1,0	
1075a	16.2	16.0	16.1	1,1	
1076	17.8	17.8	17.8	0,0	
1077	16.1	16.2	16.2	1,0	
1078	17.5	17.5	17.5	0,0	

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1079	17.3	17.5	17.4	1, 1	
1080	16.9	17.2	17.1	2, 1	
1081	16.7	16.8	16.8	1, 0	
1081a	16.9	17.0	17.0	1, 0	
1082	17.8	17.7	17.7	1, 0	
1083	17.4	17.5	17.4	0, 1	
1084	17.1	17.0	17.1	0, 1	
1085	17.4	17.5	17.4	0, 1	
1086	17.6	17.7	17.7	1, 0	
1087	17.5	17.4	17.4	1, 0	
1088	17.6	17.7	17.7	1, 0	
1089	16.3	16.3	16.3	0, 0	
1090	17.5	17.6	17.6	1, 0	
1091	17.6	17.4	17.5	1, 1	
1092	17.6	17.6	17.6	0, 0	
1093	17.6	17.8	17.7	1, 1	
1094	17.7	17.8	17.7	0, 1	
1095	17.5	17.5	17.5	0, 0	Nebula?
1096	17.7	17.7	17.7	0, 0	
1097	17.5	17.5	17.5	0, 0	
1098	17.2	17.2	17.2	0, 0	
1099	16.7	16.9	16.8	1, 1	
1100	16.3	16.2	16.2	1, 0	
1101	17.3	17.3	17.3	0, 0	
1102	17.7	17.5	17.6	1, 1	
1103	16.8	16.9	16.9	1, 0	
1104	17.5	17.5	17.5	0, 0	
1105	16.7	16.5	16.6	1, 1	
1119	17.6:	17.5:	17.6:	0, 1	Star attached
1120	17.5	17.4	17.5	0, 1	

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1121	17.3	16.9	17.1	2,2	
1122	16.9	16.7	16.8	1,1	
1123	16.6	16.6	16.6	0,0	
~~1124~~	—	—			
1126	17.5	17.4	17.4	1,0	
1127	17.7	17.5	17.6	1,1	
1128	17.6	17.5	17.5	1,0	Nebula?
1129	17.2	17.1	17.2	0,1	
1130	16.3	16.5	16.4	1,1	
1131	17.0	17.4	17.2	2,2	
1132	17.3	17.4	17.3	0,1	
1156	16.7	17.1	16.9	2,2	
1157	16.6	16.9	16.8	2,1	
1158	17.3	17.3	17.3	0,0	
1159	17.4	17.4	17.4	0,0	
1160	16.8	16.9	16.9	1,0	
1161	17.6	17.6	17.6	0,0	
1162	17.3	17.5	17.4	1,1	
1163	17.6	17.6	17.6	0,0	
1164	17.4	17.5	17.4	0,1	

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1932phae.proj.2344M

A 15305

12 47 -17.2

TOTAL NO. OF NEB. IN CLUSTER = 122

SEQUENCE IN CENTER, CLUSTER FAIRLY NEAR

No.	A15305 1ST MEASURE MAG.	A15305 RND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
171	17.2	17.1	17.1	1, 0	
172	17.7	17.8	17.8	1, 0	
178	16.2	16.1	16.1	1, 0	
179	17.3	17.3	17.3	0, 0	
180	16.2	16.3	16.2	0, 1	
181	17.6	17.8	17.7	1, 1	
182	17.8:	17.8:	17.8:	0, 0	Bright star close
183	16.3	16.3	16.3	0, 0	
184	17.3	17.3	17.3	0, 0	
185	16.3	16.4	16.3	0, 1	Nebula?
186	17.8	17.7	17.8	0, 1	
187	18.0	18.0	18.0	0, 0	
188	16.3	16.1	16.2	1, 1	
189	16.0	15.8	15.9	1, 1	
190	17.5	17.6	17.5	0, 1	
191	17.9	17.8	17.8	1, 0	
192	17.6	17.5	17.5	1, 0	
193	17.3	17.3	17.3	0, 0	
194	17.8	17.8	17.8	0, 0	
195	17.2	17.1	17.2	0, 1	
196	16.3	16.2	16.3	0, 1	
197	17.6	17.4	17.5	1, 1	
198	16.3	16.3	16.3	0, 0	
199	18.0	18.0	18.0	0, 0	
208	17.0	17.0	17.0	0, 0	
209	16.3	16.6	16.4	1, 2	

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1932phae.proj.2347M

210	17.8	17.8	17.8	0,0	
211	17.8	17.7	17.7	1,0	
212	17.0	17.0	17.0	0,0	
213	17.6	17.7	17.6	0,1	
214	17.9	17.9	17.9	0,0	
215	17.9	18.0	17.9	0,1	
216	17.3:	17.3:	17.3:	0,0	attached to 217
217	17.8:	17.8:	17.8:	0,0	attached to 216
218	17.1	17.0	17.0	1,0	
219	17.5	17.6	17.5	0,1	
220	17.8	17.8	17.8	0,0	
221	17.6	17.2	17.4	2,2	Two stars?
222	17.2	17.2	17.2	0,0	
223	16.6	16.8	16.7	1,1	
224	17.3	17.0	17.2	1,2	
225	16.2	16.2	16.2	0,0	
226	18.0	18.0	18.0	0,0	
227	17.3	17.4	17.3	0,1	
228	17.7	17.6	17.6	1,0	Two stars?
229	17.2	17.1	17.1	1,0	
230	17.4	17.3	17.4	0,1	
231	17.1	17.1	17.1	0,0	
232	17.5	17.2	17.3	2,1	
233	17.9	17.9	17.9	0,0	
234	18.0	18.0	18.0	0,0	
235	17.9	17.8	17.8	1,0	
236	17.2	17.1	17.1	1,0	
237	16.3	16.3	16.3	0,0	
238	16.1	16.1	16.1	0,0	
239	17.3	17.3	17.3	0,0	

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1932phae.proj.2344M

240	17.8	17.8	17.8	0,0	
241	17.0	17.1	17.0	0,1	
242	17.1	17.1	17.1	0,0	
243	16.9	17.0	16.9	0,1	
244	17.8	17.6	17.7	1,1	
245	17.7	17.3	17.5	2,2	
246	16.3	16.4	16.4	1,0	
247	17.9	17.8	17.8	1,0	
248	16.9	17.0	17.0	1,0	
249	17.8	17.7	17.8	0,1	
250	17.0	17.2	17.1	1;1	
251	17.8	17.9	17.8	0,1	
252	17.0	17.0	17.0	0,0	
253	17.9:	17.7:	17.8:	1,1	Star attached
254	17.2	17.3	17.3	1,0	
255	18.0	18.0	18.0	0,0	
256	17.3	17.3	17.3	0,0	
257	18.0	18.0	18.0	0,0	
258	17.5	17.4	17.4	1,0	
259	17.7	17.7	17.7	0,0	
260	17.8	17.8	17.8	0,0	
261	17.8	17.8	17.8	0,0	
262	17.9	17.9	17.9	0,0	
263	17.4	17.5	17.5	1,0	
264	17.1	17.4	17.2	1,2	Star close
265	17.9	17.8	17.9	0,1	
266	17.6	17.3	17.4	2,1	
267	18.0	17.9	17.9	1,0	
268	17.8	17.7	17.8	0,1	
269	16.7	16.5	16.6	1,1	
270	17.4	17.5	17.5	1,0	

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1932phae.proj.2347M

271	17.8	17.8	17.8	0,0
272	17.1	17.1	17.1	0,0
273	16.9	17.0	17.0	1,0
274	17.1	17.1	17.1	0,0
275	17.4	17.7	17.5	1,2
276	17.7	17.7	17.7	0,0
277	16.9	16.7	16.8	1,1
278	16.6	16.3	16.5	1,2
279	16.4	16.2	16.3	1,1
280	17.3	17.1	17.2	1,1
281	16.5	16.4	16.4	1,0
282	17.1	17.2	17.1	0,1
283	17.3	17.4	17.4	1,0
284	17.5	17.3	17.4	1,1
285	17.4	17.3	17.3	1,0
286	17.6	17.5	17.6	0,1
287	17.7	17.8	17.7	0,1
288	17.7	17.7	17.7	0,0
289	17.9	17.9	17.9	0,0
290	17.8	17.8	17.8	0,0
291	17.7	17.6	17.6	1,0
292	17.6	17.3	17.5	1,2
293	17.3	17.1	17.2	1,1
294	16.8	16.9	16.8	0,1
295	17.0	16.8	16.9	1,1
296	17.7	17.7	17.7	0,0
297	17.9	18.0	17.9	0,1
298	16.2	16.2	16.2	0,0
299	17.2	17.3	17.2	0,1
300	18.0	18.0	18.0	0,0
301	16.7	16.8	16.7	0,1

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302	17.9	18.0	18.0	1, 0
303	17.4	17.4	17.4	0, 0
304	17.0	17.0	17.0	0, 0
305	16.9	17.1	17.0	1, 1

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1932phae.proj.2347M

A 15870

6 20 −65

TOTAL NO. OF NEB. IN CLUSTER = 73 ✓ SEQUENCE IN CENTER, CLUSTER NEAR

No.	A 15870 1ST MEASURE MAG.	A 15870 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
242	17.1	16.9	17.0	1, 1	
243	16.8	16.7	16.8	0, 1	
244	16.5	16.5	16.5	0, 0	
245	17.2	17.1	17.2	0, 1	
246	17.0	17.0	17.0	0, 0	
247	17.2	17.3	17.3	1, 0	
248	16.9	16.9	16.9	0, 0	
249	16.7	16.7	16.7	0, 0	
250	15.6	15.7	15.7	1, 0	
251	16.8	16.8	16.8	0, 0	
252	17.2	17.3	17.3	1, 0	
253	17.3	17.4	17.4	1, 0	
254	17.0	17.0	17.0	0, 0	
255	16.8	16.8	16.8	0, 0	
256	16.8	16.9	16.9	1, 0	
258	17.2	17.2	17.2	0, 0	Nebula ?
259	16.8	16.8	16.8	0, 0	
260	16.7	16.7	16.7	0, 0	
261	17.2	17.3	17.2	0, 1	
262	17.1	17.2	17.1	0, 1	
263	16.9	16.7	16.8	1, 1	
264	17.1	17.0	17.0	1, 0	
265	16.9	16.7	16.8	1, 1	
266	15.8	15.9	15.9	1, 0	
267	17.1	17.4	17.3	2, 1	
268	16.6	16.5	16.6	0, 1	

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268a	16.6	16.4	16.5	1, 1	
269	16.2	16.2	16.2	0, 0	
270	17.1	16.8	17.0	1, 2	
273	17.3	17.3	17.3	0, 0	
274	17.2	17.2	17.2	0, 0	
275	16.0	16.3	16.1	1, 2	
306	17.3	17.2	17.2	1, 0	
307	16.8	16.8	16.8	0, 0	
308	16.2	16.2	16.2	0, 0	
309	17.2	17.1	17.1	1, 0	
310	16.3	16.3	16.3	0, 0	Nebula ??
311	16.8	16.8	16.8	0, 0	
312	17.2	17.2	17.2	0, 0	
313	16.8	16.9	16.8	0, 1	
314	17.0	17.0	17.0	0, 0	

IN GREEN (FROM A 14109)

1	16.8	16.7	16.7	1, 0	
2	15.9	15.9	15.9	0, 0	
3	16.8	16.4	16.6	2, 2	
4	17.0	16.8	16.9	1, 1	
5	16.2	16.4	16.3	1, 1	
6	15.8	15.6	15.7	1, 1	
7	16.4	16.4	16.4	0, 0	
8	16.3	16.2	16.2	1, 0	
9	16.8	16.4	16.6	2, 2	
10	15.9	15.8	15.9	0, 1	
11	16.3:	16.3:	16.3:	0, 0	Faint star attached?
12	16.2	16.2	16.2	0, 0	
13	15.9	15.8	15.8	1, 0	
14	15.7	15.6	15.7	0, 1	Star close

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IN BLUE (FROM A14256)

	1	16.8	16.8	16.8	0, 0
	2	16.2	16.3	16.2	0, 1
	3	16.8	16.8	16.8	0, 0
	4	17.3	17.2	17.3	0, 1
	5	15.6	15.6	15.6	0, 0
	6	16.3	16.4	16.4	1, 0
	7	16.8	16.8	16.8	0, 0
	8	16.6	16.6	16.6	0, 0
	9	16.8	16.8	16.8	0, 0
	10	15.9	15.9	15.9	0, 0
	11	16.9	16.9	16.9	0, 0
	12	16.2	16.1	16.1	1, 0
	13	16.9	16.9	16.9	0, 0
	14	16.5	16.5	16.5	0, 0
N.G.C.					
perhaps spiral	2229	15.2	15.2	15.2	0, 0
spheroidal	2230	15.1	15.1	15.1	0, 0
probably spheroidal	2233	15.1	15.2	15.2	1, 0
perhaps spheroidal	2235	15.8:	15.7:	15.7:	1, 0

Star involved?

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1932phae.proj.2341M

A 14222

18 54 −62.7

TOTAL NO. OF NEB. IN CLUSTER = 89 ✓ CLUSTER JUST OFF CENTER; SEQUENCE CLOSE

No.	A14222 1ST MEASURE MAG.	A14222 2ND MEASURE MAG.	MEAN	RESIDUALS	
1	17.0	17.3	17.1	±1, 2	
2	17.3	17.4	17.4	±1, 0	
3	16.5:	16.9:	16.7:	±2, 2	Faint star attached Nebula?
4	17.9	17.9	17.9	0, 0	
5	17.2	17.4	17.3	±1, 1	
6	17.8:	17.9:	17.9:	±1, 0	Star attached
7	17.8	17.9	17.8	0, 1	
8	16.5	16.7	16.6	±1, 1	
9	17.8	17.8	17.8	0, 0	
10	17.9	17.9	17.9	0, 0	
11	18.1	18.0	18.1	0, ±1	
12	17.4	17.5	17.4	0, 1	
13	17.8	17.8	17.8	0, 0	
14	17.4	17.4	17.4	0, 0	
15	16.8	16.8	16.8	0, 0	
16	17.8	17.9	17.9	±1, 0	
17	17.4:	17.7:	17.6:	±2, 1	Star attached
18	16.1	16.2	16.1	0, 1	
19	17.8	17.8	17.8	0, 0	
20	17.3	17.3	17.3	0, 0	Nebula?
21	17.2	17.3	17.2	0, 1	
22	16.0:	16.2:	16.1:	±1, 1	Defect involved
23	17.5	17.7	17.6	1, 1	
24	14.8	14.9	14.9	±1, 0	Bright star close
25	17.5	17.7	17.6	±1, 1	
26	17.2:	17.2:	17.2:	0, 0	Star attached

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1932phae.proj.2347M

27	15.7	16.0	15.8	1, 2	
28	17.2	17.2	17.2	0, 0	
29	18.2	18.2	18.2	0, 0	Nebula?
30	18.1	17.9	18.0	1, 1	
31	17.3	17.4	17.3	0, 1	
32	16.8	16.8	16.8	0, 0	
33	17.3	17.5	17.4	1, 1	
34	17.0	16.8	16.9	1, 1	
35	17.9	17.8	17.8	1, 0	
36	17.3	17.4	17.3	0, 1	
37	17.5	17.5	17.5	0, 0	
38	16.5	16.6	16.6	1, 0	
39	17.2	17.2	17.2	0, 0	
40	17.9	17.8	17.9	0, 1	
41	17.7	17.7	17.7	0, 0	
42	17.4	17.6	17.5	1, 1	
43	17.8	17.7	17.8	0, 1	
44	16.8	16.8	16.8	0, 0	
45	16.9	17.0	16.9	0, 1	
46	17.0	17.2	17.1	1, 1	
47	16.7	16.7	16.7	0, 0	
48	17.5	17.4	17.4	1, 0	
49	17.0	17.0	17.0	0, 0	
50	17.8	17.8	17.8	0, 0	Nebula?
51	17.4	17.4	17.4	0, 0	
52	17.8	17.8	17.8	0, 0	
53	17.2	17.2	17.2	0, 0	
54	16.7	16.6	16.7	0, 1	Nebula?
55	17.9:	17.8:	17.9:	0, 1	Star attacked
56	17.3	17.2	17.2	1, 0	

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57	16.6	16.7	16.7	1, 0	
58	17.4	17.4	17.4	0, 0	
59	17.8	17.8	17.8	0, 0	
60	17.3	17.4	17.4	1, 0	
61	17.7	17.7	17.7	0, 0	
62	17.7	17.6	17.7	0, 1	
63	15.8	15.8	15.8	0, 0	
64	17.6	17.5	17.6	0, 1	
65	17.8	17.8	17.8	0, 0	
66	18.0	17.9	17.9	1, 0	
67	16.9	17.0	17.0	1, 0	
68	17.9	17.8	17.9	0, 1	
69	17.5	17.4	17.4	1, 0	Nebula?
70	17.2	17.2	17.2	0, 0	
71	17.4	17.3	17.3	1, 0	
72	17.2	17.2	17.2	0, 0	
73	17.8	17.6	17.7	1, 1	
74	18.1	18.2	18.2	1, 0	
75	17.5	17.4	17.5	0, 1	
76	17.6	17.5	17.6	0, 1	
77	17.8	17.9	17.9	1, 0	
78	17.7	17.9	17.8	1, 1	
79	16.6	16.6	16.6	0, 0	
80	17.9	17.9	17.9	0, 0	

I.C.

4759	16.1	16.2	16.2	1, 0	
4760	16.5	16.6	16.5	0, 1	
4764	15.9	15.8	15.8	1, 0	
4765	15.0	15.1	15.1	1, 0	Faint star attached
4767	15.7	15.6	15.6	1, 0	
4769	16.2	16.0	16.1	1, 1	

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1932phae.proj.231M

4770	16.9:	17.0:	16.9:	0,1	Bright star attached
4771	16.6	16.6	16.6	0,0	
4779	16.7:	16.9:	16.8:	⊥,1	Star attached

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1932phae.proj.2344M

A 15940

10 20 -35.0

TOTAL NO. OF NEB. IN CLUSTER = 108 ✓ CLUSTER JUST OFF CENTER ; SEQUENCE IN CENTER .

No.	A15940 1ST MEASURE MAG.	A15940 2ND MEASURE MAG.	MEAN	RESIDUALS	REMARKS
243	17.5	17.5	17.5 ✓	0, 0	
244	17.3	17.4	17.3 ✓	0, 1	Nebula?
245	16.6	16.4	16.5 ✓	1, 1	
246	17.2	17.4	17.3 ✓	1, 1	Nebula?
247	15.7	16.1	15.9	2, 2	
248	14.6	14.8	14.7	1, 1	
249	17.5	17.7	17.6 ✓	1, 1	Nebula?
250	17.3	17.3	17.3 ✓	0, 0	
251	16.0	16.3	16.2	2, 1	
252	17.4	17.3	17.3 ✓	1, 0	
253	16.6	16.8	16.7	1, 1	
254	17.6	17.7	17.6 ✓	0, 1	
255	17.4:	17.5:	17.5: ✓	1, 0	Star attached
256	17.4	17.5	17.4 ✓	0, 1	
257	16.6	16.6	16.6 ✓	0, 0	
258	17.1	17.3	17.2 ✓	1, 1	
259	15.7	16.1	15.9	2, 2	
260	17.0	17.2	17.1	1, 1	
261	17.4	17.5	17.5 ✓	1, 0	
262	17.6	17.6	17.6 ✓	0, 0	
263	16.9	17.1	17.0	1, 1	
264	17.4	17.4	17.4 ✓	0, 0	
265	15.7	15.8	15.8	1, 0	
266	16.8	17.1	16.9	1, 2	
267	17.5	17.4	17.5 ✓	0, 1	
268	17.6	17.7	17.6 ✓	0, 1	

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269	17.5	17.5	17.5	0,0	
270	17.1:	17.3:	17.2:	1,1	Bright star attached
271	17.5	17.5	17.5	0,0	
272	16.2	16.2	16.2	0,0	
299	17.5	17.6	17.5	0,1	
300	17.5	17.7	17.6	1,1	Nebula?
301	17.4:	17.5:	17.4:	0,1	Bright star attached
302	17.6	17.7	17.6	0,1	
303	17.3	17.4	17.3	0,1	
304	16.8	17.2	17.0	2,2	
305	16.6	16.7	16.7	1,0	
306	17.3	17.5	17.4	1,1	
307	17.6:	17.5:	17.6:	0,1	Attached to 308
308	17.4:	17.3:	17.3:	1,0	Attached to 307
309	17.6	17.7	17.6	0,1	Nebula?
310	16.0	16.1	16.1	1,0	
311	16.5	16.7	16.6	1,1	
312	17.4	17.4	17.4	0,0	
313	16.3	16.3	16.3	0,0	
314	17.4	17.5	17.4	0,1	
315	15.9	15.7	15.8	1,1	
316	17.5	17.5	17.5	0,0	
317	17.7	17.7	17.7	0,0	
318	17.4	17.4	17.4	0,0	
319	17.5	17.5	17.5	0,0	
320	15.6	15.7	15.7	1,0	
321	17.2	17.2	17.2	0,0	
322	17.7	17.7	17.7	0,0	
323	16.3	16.2	16.2	1,0	
324	17.7	17.6	17.7	0,1	

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1932phae.proj.2344M

325	17.7	17.7	17.7	0,0	
326	16.8	17.1	17.0	2,1	
327	17.3	17.4	17.3	0,1	
328	17.4	17.6	17.5	1,1	
329	17.5	17.7	17.6	1,1	
330	17.4	17.7	17.6	2,1	Nebula?
331	16.8	16.8	16.8	0,0	
332	17.5	17.4	17.5	0,1	
333	17.3	17.1	17.2	1,1	
334	17.4	17.1	17.2	2,1	
334a	17.7	17.7	17.7	0,0	Nebula?
335	17.5	17.6	17.5	0,1	
335a	16.7	16.6	16.6	1,0	
336	17.1	17.1	17.1	0,0	
361	17.6	17.7	17.7	1,0	
362	17.6	17.7	17.6	0,1	
363	17.2	17.3	17.3	1,0	
364	17.4	17.5	17.4	0,1	
365	16.7	16.8	16.7	0,1	
366	17.5	17.4	17.4	1,0	
367	17.5	17.6	17.5	0,1	Nebula?
368	17.5	17.5	17.5	0,0	
369	17.3	17.3	17.3	0,0	Nebula?
370	17.6	17.7	17.6	0,1	
371	17.3	17.3	17.3	0,0	
480	16.1:	16.2:	16.1:	0,1	Star attached
481	16.7	16.5	16.6	1,1	
482	16.8:	16.8:	16.8:	0,0	Star involved
433	17.6	17.6	17.6	0,0	
434	15.7	15.9	15.8	1,1	
435	15.9	16.1	16.0	1,1	
436	16.4	16.4	16.4	0,0	Star close

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1932phot.proj.234M

	437	17.8	17.5	17.6	2, 1	
	438	17.3	17.4	17.3	0, 1	Nebula ??
	439	17.5	17.6	17.6	1, 0	
	440	17.2	17.3	17.3	1, 0	
	441	17.5	17.5	17.5	0, 0	Nebula?
	442	16.1	15.9	16.0	1, 1	Stars close and involved
	~~443~~					
	444	17.5	17.6	17.6	1, 0	
	445	17.5	17.6	17.5	0, 1	
	446	17.4	17.4	17.4	0, 0	
	469	15.4	15.5	15.4	0, 1	
	N.G.C.					
spheroidal	3257	15.0	15.3	15.1	1, 2	
spheroidal	3258	14.1	14.2	14.2	1, 0	
spheroidal?	3260	15.3	14.9	15.1	2, 2	
spheroidal?	3267	14.7	14.6	14.7	0, 1	
spheroidal	3268	143	14.2	14.2	1, 0	
spiral	3269	14.5	14.6	14.5	0, 1	
spiral	3271	14.0	13.9	14.0	0, 1	
spiral	3273	14.3	14.6	14.5	2, 1	
spiral	3281	14.7	14.8	14.8	1, 0	
	I.C.					
	2584	14.5	14.5	14.5	0, 0	

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1932phae.proj.2342M

A 15974

16 00 +17.5

TOTAL NO. OF NEB. IN CLUSTER NO. 1 = 320

TOTAL NO. OF NEB IN CLUSTER NO 2 = 471

2 CLUSTERS IN CENTER; SEQUENCE OF MAGNITUDES OF NEBULAE DERIVED ON A 7374

CLUSTER NO. 1 (15)

No.	A15974 1ST MEASURE MAG.	A15974 2ND MEASURE MAG.	MEAN	RESIDUALS
691	17.1	17.2	17.1	0, 1
692	16.3	16.0	16.2	1, 1
693	17.2	17.2	17.2	0, 0
694	17.0	16.9	16.9	1, 0
695	16.8	16.7	16.8	0, 1
696	17.0	17.1	17.1	1, 0
697	17.1	17.1	17.1	0, 0
698	17.0	17.0	17.0	0, 0
699	17.3	17.2	17.2	1, 0
700	17.1	17.1	17.1	0, 0
701	16.2	16.3	16.3	1, 0
702	17.1	17.0	17.0	1, 0
703	17.2	17.2	17.2	0, 0
704	17.2	17.1	17.1	1, 0
705	17.0	16.9	17.0	0, 1
706	17.3	17.3	17.3	0, 0
707	17.2	17.3	17.3	1, 0
708	17.1	17.2	17.2	1, 0
709	17.3	17.3	17.3	0, 0
710	17.3	17.4	17.3	0, 1
711	17.2	17.0	17.1	1, 1
712	17.2	17.2	17.2	0, 0
713	16.8	16.8	16.8	0, 0
714	17.0	17.0	17.0	0, 0
715	17.0	17.0	17.0	0, 0

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1932phot.proj.234M

T16	17.2	17.2	17.2	0,0	
T17	17.4	17.3	17.4	0,1	
T18	17.1	17.1	17.1	0,0	
T19	17.0	17.1	17.1	1,0	
T20	17.3:	17.3:	17.3:	0,0	Nebula? Faint star attached
T21	16.9	16.9	16.9	0,0	
T22	17.3	17.2	17.2	1,0	
T23	17.3	17.2	17.3	0,1	
T24	17.2	17.3	17.2	0,1	
T25	17.4	17.4	17.4	0,0	
T26	17.4	17.4	17.4	0,0	
T27	17.2	17.2	17.2	0,0	
T28	17.3	17.3	17.3	0,0	
T29	17.2	17.2	17.2	0,0	
T30	16.8	16.6	16.7	1,1	
T31	17.3	17.2	17.3	0,1	
T32	17.4	17.2	17.3	1,1	
T33	17.1	17.1	17.1	0,0	
T34	17.1	17.0	17.0	1,0	
T35	17.2	17.2	17.2	0,0	
T36	17.2	17.2	17.2	0,0	
T37	17.3	17.2	17.3	0,1	
T38	17.2	17.3	17.2	0,1	
T39	17.2	17.2	17.2	0,0	
T40	16.3	16.4	16.3	0,1	
T41	17.3	17.0	17.2	1,2	
T42	17.3	17.2	17.3	0,1	
T43	17.2	17.2	17.2	0,0	
T44	17.4	17.4	17.4	0,0	
T45	16.5	16.4	16.4	1,0	

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746	17.4	17.4	17.4	0,0	
747	17.3	17.3	17.3	0,0	
748	17.2	17.0	17.1	1,1	
749	17.2	17.3	17.3	1,0	
750	16.9	16.9	16.9	0,0	
751	17.4	17.4	17.4	0,0	
752	17.0	16.9	17.0	0,1	
753	17.0	16.8	16.9	1,1	
754	17.3	17.3	17.3	0,0	
755	16.6	16.6	16.6	0,0	
766	17.3	17.3	17.3	0,0	
767	17.4	17.4	17.4	0,0	
768	17.3	17.3	17.3	0,0	
769	17.3	17.3	17.3	0,0	
770	17.2	17.2	17.2	0,0	
771	17.1	17.1	17.1	0,0	
772	17.1	17.0	17.1	0,1	
773	17.4	17.3	17.4	0,1	Nebula?
774	17.4	17.4	17.4	0,0	Nebula?
775	17.0	16.8	16.9	1,1	
776	17.4	17.3	17.3	1,0	
777	17.2	17.2	17.2	0,0	
778	16.9	16.8	16.8	1,0	
779	17.2	17.4	17.3	1,1	Star attached
780	17.0	16.9	16.9	1,0	
781	17.2	17.3	17.2	0,1	
M. 1600 + 1800.0	~~782~~	~~15.9~~			
783	17.4	17.4	17.4	0,0	
784	17.1	16.9	17.0	1,1	
785	17.2	17.1	17.1	1,0	

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1932phot.proj.234M

786	17.2	17.1	17.2	0, 1	
787	16.8	17.0	16.9	1, 1	
788	17.3	17.2	17.3	0, 1	
789	17.4	17.3	17.4	0, 1	Nebula?
790	16.9	16.9	16.9	0, 0	
791	16.3	16.2	16.3	0, 1	
791a	17.4	17.2	17.3	1, 1	
792	17.3	17.2	17.2	1, 0	
793	17.2	17.0	17.1	1, 1	
794	16.9	17.0	16.9	0, 1	
795	17.2	16.9	17.0	2, 1	Attached to red 67
796	16.3	16.2	16.3	0, 1	
797	16.9	16.9	16.9	0, 0	
798	17.3	17.4	17.4	1, 0	Bright star close
799	17.1	17.2	17.1	0, 1	
800	16.9	17.0	17.0	1, 0	
801	17.3	17.3	17.3	0, 0	
802	17.3	17.2	17.3	0, 1	
803	17.3	17.3	17.3	0, 0	
804	17.2	17.1	17.2	0, 1	
805	17.4	17.5	17.5	1, 0	Nebula?
806	17.4	17.3	17.4	0, 1	
807	17.4	17.2	17.3	1, 1	
808	17.0	17.0	17.0	0, 0	
809	16.9	16.9	16.9	0, 0	
810	17.3	17.2	17.3	0, 1	
811	17.2	17.2	17.2	0, 0	
812	17.4	17.4	17.4	0, 0	
813	17.2	17.1	17.2	0, 1	
814	17.1	17.2	17.1	0, 1	
815	16.5	16.4	16.5	0, 1	

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1932phae.proj.2344M

816	17.0	16.9	17.0	0, 1	Star close
817	17.2	17.2	17.2	0, 0	
818	16.7	16.7	16.7	0, 0	
819	17.4	17.4	17.4	0, 0	
820	17.4	17.3	17.3	1, 0	
821	17.3	17.2	17.2	1, 0	
822	17.1	17.1	17.1	0, 0	
822a	17.3	17.1	17.2	1, 1	
823	17.4	17.3	17.3	1, 0	
824	17.3	17.3	17.3	0, 0	
828	17.2	17.2	17.2	0, 0	
829	17.1	17.1	17.1	0, 0	
830	16.7	16.7	16.7	0, 0	
831	17.1	16.9	17.0	1, 1	
832	17.3	17.3	17.3	0, 0	
833	17.0	17.1	17.0	0, 1	
834	17.4	17.3	17.3	1, 0	
835	17.1	17.2	17.2	1, 0	
837	17.2	17.3	17.2	0, 1	
838	17.2	17.2	17.2	0, 0	
839	17.3	17.2	17.3	0, 1	
840	17.0	17.0	17.0	0, 0	
841	16.3	16.4	16.3	0, 1	Nebula?
842	17.4	17.3	17.4	0, 1	
843	17.2	17.1	17.1	1, 0	
844	17.3	17.2	17.2	1, 0	
845	17.4	17.3	17.3	1, 0	
846	16.8	16.9	16.8	0, 1	
847	17.3	17.2	17.3	0, 1	
848	16.8	16.9	16.8	0, 1	

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1932phae.proj.234M

849	17.4	17.3	17.3	1, 0	
850	17.3	17.2	17.2	1, 0	
851	17.3	17.2	17.3	0, 1	
852	16.7	16.9	16.8	1, 1	
853	17.4	17.2	17.3	1, 1	
854	17.1	16.9	17.0	1, 1	
855	17.2	17.2	17.2	0, 0	
856	17.4	17.2	17.3	1, 1	
857	17.0	17.0	17.0	0, 0	
858	16.8	16.7	16.7	1, 0	Close to 859
859	17.0	16.8	16.9	1, 1	Close to 858
860	17.4	17.3	17.4	0, 1	
861	17.3	17.2	17.3	0, 1	
862	17.3	17.3	17.3	0, 0	
863	16.3	16.2	16.2	1, 0	
864	16.9	16.9	16.9	0, 0	
865	17.0	17.0	17.0	0, 0	
866	17.2	17.2	17.2	0, 0	
867	17.0	16.9	16.9	1, 0	
868	16.9	16.9	16.9	0, 0	
869	17.0	17.0	17.0	0, 0	
870	16.8	16.7	16.8	0, 1	
871	17.3	17.3	17.3	0, 0	
872	17.1	17.0	17.1	0, 1	
873	17.3	17.4	17.4	1, 0	Nebula?
874	17.2	17.2	17.2	0, 0	
875	17.2	17.3	17.3	1, 0	
876	17.3	17.3	17.3	0, 0	
877	17.2	17.2	17.2	0, 0	
878	17.1	17.2	17.2	1, 0	

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881	16.9	16.9	16.9	0,0	
882	17.3	17.2	17.3	0,1	
883	17.2	17.0	17.1	1,1	
884	16.1	16.1	16.1	0,0	
885	17.3	17.3	17.3	0,0	
886	17.2	17.2	17.2	0,0	
887	17.3	17.4	17.4	1,0	Nebula?
888	17.0	17.0	17.0	0,0	
889	17.0	16.9	16.9	1,0	
890	17.3	17.2	17.2	1,0	
891	17.3	17.3	17.3	0,0	Nebula?
892	17.4	17.4	17.4	0,0	
893	17.2	17.0	17.1	1,1	
894	17.4	17.3	17.3	1,0	
895	17.0	17.1	17.0	0,1	
896	17.1	17.1	17.1	0,0	
897	17.0	16.9	16.9	1,0	
901	17.3	17.4	17.4	1,0	
902	17.3	17.3	17.3	0,0	
903	17.2	17.1	17.1	1,0	
904	16.9	16.8	16.8	1,0	
905	17.1	17.0	17.1	0,1	
906	17.1	16.9	17.0	1,1	
907	17.2	17.3	17.2	0,1	
908	17.2	17.3	17.3	1,0	
909	16.9	16.9	16.9	0,0	
910	17.2	17.0	17.1	1,1	
911	16.6	16.7	16.6	0,1	
912	17.4	17.3	17.4	0,1	Nebula?
913	17.3	17.2	17.3	0,1	

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914	17.1	17.0	17.0	1,0	
915	17.1	17.0	17.1	0,1	
916	16.8	16.7	16.8	0,1	
917	17.2	17.2	17.2	0,0	
918	17.1	17.0	17.1	0,1	
919	17.3	17.3	17.3	0,0	
920	16.8	16.8	16.8	0,0	
921	17.3	17.2	17.2	1,0	
922	17.3	17.2	17.3	0,1	
923	17.4	17.2	17.3	1,1	
924	17.2	17.0	17.1	1,1	
925	16.9	16.9	16.9	0,0	
926	17.4	17.3	17.4	0,1	
927	17.1	17.0	17.1	0,1	
928	16.8	16.5	16.6	2,1	
929	17.4	17.4	17.4	0,0	Nebula?
1033	17.2	17.0	17.1	1,1	
1034	16.9	16.9	16.9	0,0	
1035	16.9	16.8	16.9	0,1	
1036	16.4	16.4	16.4	0,0	
1037	17.2	17.2	17.2	0,0	
1038	17.3	17.3	17.3	0,0	

SEE PAGE 151 FOR NINE ADDITIONAL NEBULAE IN CLUSTER No. 1

CLUSTER No. 2

(14)

202	16.9	17.0	17.0	1,0
203	17.0	17.1	17.1	1,0
204	17.3	17.2	17.2	1,0
205	17.2	17.2	17.2	0,0
206	16.8	16.9	16.9	1,0
207	17.1	17.0	17.0	1,0

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208	16.8	17.0	16.9 v	1, 1
209	16.7	16.8	16.7 v	0, 1
210	17.0	17.0	17.0 v	0, 0
211	17.2	17.0	17.1 v	1, 1
212	17.1:	17.2:	17.2: v	1, 0 Nebula? Faint star close
213	16.7	16.6	16.7 v	0, 1
214	16.9	16.8	16.8 v	1, 0
215	17.3	17.2	17.3 v	0, 1
216	17.2	17.1	17.2 v	0, 1
217	16.7	16.8	16.7 v	0, 1
218	17.0	16.9	17.0 v	0, 1
219	17.2	17.2	17.2 v	0, 0
220	16.4	16.6	16.5 v	1, 1
221	17.1	17.2	17.1 v	0, 1
222	16.8	16.7	16.8 v	0, 1
223	17.3	17.2	17.3 v	0, 1
224	16.1	15.8	16.0 v	1, 2
225	16.8	16.7	16.7 v	1, 0
226	17.3	17.3	17.3 v	0, 0
227	17.2	17.2	17.2 v	0, 0
228	16.4	16.5	16.4 v	0, 1
229	16.9	16.9	16.9 v	0, 0
230	17.3	17.3	17.3 v	0, 0
231	16.5	16.2	16.3 v	2, 1
232	16.8:	16.5:	16.6: v	2, 1 238 attached
233	17.0	16.9	16.9 v	1, 0
234	17.2	17.4	17.3 v	1, 1
235	17.0	17.2	17.1 v	1, 1
236	17.0	17.2	17.1 v	1, 1
237	17.1	17.1	17.1 v	0, 0

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238	17.0	17.0	17.0	0,0
239	16.8	16.9	16.9	1,0
240	17.0	17.0	17.0	0,0
241	17.1	17.0	17.0	1,0
242	17.0	17.1	17.1	1,0
243	16.3	16.1	16.2	1,1
244	17.2	17.1	17.2	0,1
245	16.4	16.4	16.4	0,0
246	17.2	17.2	17.2	0,0
247	16.9	16.9	16.9	0,0
248	17.3	17.2	17.3	0,1
249	17.3	17.2	17.2	1,0
250	17.1	17.1	17.1	0,0
251	17.0	17.0	17.0	0,0
252	17.0	16.9	16.9	1,0
253	16.9	17.1	17.0	1,1
254	17.3	17.3	17.3	0,0
255	17.2	17.2	17.2	0,0
256	16.9	16.9	16.9	0,0
257	17.0	17.1	17.0	0,1
258	16.6	16.8	16.7	1,1
259	17.0	16.9	16.9	1,0
260	16.3	16.4	16.4	1,0
261	17.1	17.1	17.1	0,0
262	17.4	17.3	17.3	1,0
267	16.8	16.9	16.8	0,1
268	17.4	17.3	17.3	1,0
269	17.3	17.2	17.2	1,0
270	16.3	16.3	16.3	0,0
271	17.0	16.9	16.9	1,0

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272	16.9	16.8	16.8 ✓	1,0
273	16.8	16.9	16.8 ✓	0,1
274	17.1	17.2.	17.1 ✓	0,1
275	16.4	16.6	16.5 ✓	1,1
276	17.2	17.3	17.2 ✓	0,1
277	16.8	16.6	16.7 ✓	1,1
278	17.3	17.3	17.3 ✓	0,0
279	17.0	16.9	16.9 ✓	1,0
279a	16.8	16.7	16.8 ✓	0,1
280	16.8	16.9	16.9 ✓	1,0
281	17.2	17.2	17.2 ✓	0,0
282	17.3	17.3	17.3 ✓	0,0
283	17.0	16.9	17.0 ✓	0,1
284	17.0	17.2	17.1 ✓	1,1
285	16.4	16.2	16.3 ✓	1,1
286	16.6	16.4	16.5 ✓	1,1
287	17.2	17.1	17.1 ✓	1,0
288	16.8	16.8	16.8 ✓	0,0
289	16.9	16.9	16.9 ✓	0,0
290	16.5:	16.6:	16.5: ✓	0,1 Bright star attached
291	16.9	16.9	16.9 ✓	0,0
292	17.3	17.2	17.2 ✓	1,0
293	17.0	17.0	17.0 ✓	0,0
294	16.8	16.7	16.7 ✓	1,0
295	17.1	17.0	17.1 ✓	0,1
296	16.8	17.0	16.9 ✓	1,1
297	17.3	17.3	17.3 ✓	0,0
298	17.0	17.1	17.0 ✓	0,1
299	17.2	17.2	17.2 ✓	0,0
300	16.4	16.2	16.3 ✓	1,1
301	16.7	16.8	16.7 ✓	0,1

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302	17.0	16.9	17.0 ✓	0, 1	Faint star close
303	17.0	16.9	16.9 ✓	1, 0	
304	17.2	17.1	17.2 ✓	0, 1	
305	17.3	17.3	17.3 ✓	0, 0	
306	17.2	17.0	17.1 ✓	1, 1	
307	17.0	17.0	17.0 ✓	0, 0	
308	16.9	17.1	17.0 ✓	1, 1	
309	17.3	17.2	17.3 ✓	0, 1	
310	16.8	16.9	16.8 ✓	0, 1	
311	16.7	16.6	16.7 ✓	0, 1	
312	16.6	16.5	16.6 ✓	0, 1	
313	17.0	17.0	17.0 ✓	0, 0	
314	16.7	16.6	16.7 ✓	0, 1	
315	17.0	17.0	17.0 ✓	0, 0	
316	17.2	17.2	17.2 ✓	0, 0	
317	17.1	17.1	17.1 ✓	0, 0	
318	17.4	17.4	17.4 ✓	0, 0	
319	17.2:	17.3:	17.2: ✓	0, 1	Star close
320	16.8:	17.0:	16.9 ✓	1, 1	Star attached
321	17.2	17.2	17.2 ✓	0, 0	
322	17.3	17.3	17.3 ✓	0, 0	
323	17.3	17.3	17.3 ✓	0, 0	
324	16.9	16.8	16.9 ✓	0, 1	
325	16.1	15.9	16.0 ✓	1, 1	
326	17.2	17.3	17.2 ✓	0, 1	
327	17.4	17.4	17.4 ✓	0, 0	
328	16.9	17.0	16.9 ✓	0, 1	
329	16.4	16.7	16.6 ✓	2, 1	
330	17.2	17.3	17.3 ✓	1, 0	
331	17.1	17.1	17.1 ✓	0, 0	

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332	17.4	17.3	17.4 ✓	0, 1	
333	17.3	17.2	17.3 ✓	0, 1	
334	17.2	17.1	17.2 ✓	0, 1	
335	17.3	17.2	17.3 ✓	0, 1	
336	17.3	17.2	17.2 ✓	1, 0	
337	17.4	17.3	17.3 ✓	1, 0	
338	17.2	17.1	17.2 ✓	0, 1	
339	16.8	16.4	16.6 ✓	2, 2	
340	16.2	16.2	16.2 ✓	0, 0	
341	15.8	15.8	15.8 ✓	0, 0	
342	16.9	17.0	16.9 ✓	0, 1	
343	17.3	17.2	17.2 ✓	1, 0	
344	16.8	16.9	16.4 ✓	1, 0	
345	17.3	17.2	17.3 ✓	0, 1	Nebula?
346	16.9	17.0	17.0 ✓	1, 0	
347	17.3	17.3	17.3 ✓	0, 0	
348	16.2	16.2	16.2 ✓	0, 0	
349	17.4	17.4	17.4 ✓	0, 0	Nebula?
350	16.9	17.0	17.0 ✓	1, 0	
351	17.4	17.4	17.4 ✓	0, 0	
352	16.4	16.5	16.5 ✓	1, 0	
353	17.1	17.1	17.1 ✓	0, 0	
354	17.4	17.2	17.3 ✓	1, 1	
a	17.3	17.2	17.2 ✓	1, 0	
b	16.8	16.8	16.8 ✓	0, 0	Nebula?
c	17.0	16.9	16.9 ✓	1, 0	
e	17.2	17.2	17.2 ✓	0, 0	
f	17.0	17.0	17.0 ✓	0, 0	
g	17.3	17.2	17.2 ✓	1, 0	
h	17.3	17.2	17.3 ✓	0, 1	

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355	16.9	16.9	16.9	0,0	
356	16.8	16.8	16.8	0,0	
357	17.2	17.2	17.2	0,0	
358	17.3	17.2	17.2	1,0	
359	17.3	17.2	17.3	0,1	
360	17.4	17.3	17.4	0,1	Nebula?
361	17.3	17.1	17.2	1,1	
362	16.9	16.9	16.9	0,0	
363	17.3	17.2	17.3	0,1	
364	16.9	16.9	16.9	0,0	
365	17.2	17.2	17.2	0,0	
366	17.3	17.3	17.3	0,0	
367	16.9	16.9	16.9	0,0	
368	16.8	16.9	16.8	0,1	
369	17.1	17.1	17.1	0,0	
370	17.2	17.2	17.2	0,0	
371	16.6	16.5	16.5	1,0	
372	16.1	16.1	16.1	0,0	
373	16.8	16.9	16.8	0,1	
374	17.0	17.0	17.0	0,0	
375	16.9	16.9	16.9	0,0	
376	17.4	17.3	17.3	1,0	
377	17.3	17.3	17.3	0,0	
378	17.3	17.2	17.2	1,0	
379	17.2	17.3	17.3	1,0	
380	16.3	16.1	16.2	1,1	
381	16.2	16.4	16.3	1,1	
382	17.2	17.3	17.2	0,1	
383	17.4	17.3	17.3	1,0	
384	17.3	17.2	17.2	1,0	

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385	16.9	16.9	16.9 ✓	0,0	
386	17.2	17.2	17.2 ✓	0,0	
387	16.9	17.0	16.9 ✓	0,1	
388	17.3	17.3	17.3 ✓	0,0	
389	17.4	17.4	17.4 ✓	0,0	
390	17.0	16.9	17.0 ✓	0,1	
391	17.2	17.2	17.2 ✓	0,0	
392	17.3	17.2	17.3 ✓	0,1	
393	16.9	16.8	16.8 ✓	1,0	
394	17.4	17.3	17.3 ✓	1,0	
395	17.3	17.2	17.2 ✓	1,0	
396	17.2	17.1	17.1 ✓	1,0	
397	17.3	17.3	17.3 ✓	0,0	
398	16.9	16.8	16.8 ✓	1,0	
399	17.2	17.3	17.3 ✓	1,0	
400	17.0	16.9	17.0 ✓	0,1	
401	16.9	16.8	16.9 ✓	0,1	
402	16.8	16.7	16.8 ✓	0,1	
403	17.1	17.1	17.1 ✓	0,0	
404	17.3	17.3	17.3 ✓	0,0	
405	17.3	17.2	17.3 ✓	0,1	
406	16.8	16.9	16.8 ✓	0,1	
407	17.1	17.2	17.1 ✓	0,1	
408	17.2	17.2	17.2 ✓	0,0	Nebula?
409	16.9	16.9	16.9 ✓	0,0	
410	16.4	16.3	16.4 ✓	0,1	
411	17.2	17.1	17.1 ✓	1,0	
412	17.3	17.2	17.2 ✓	1,0	
413	16.9	16.8	16.9 ✓	0,1	
414	17.3	17.3	17.3 ✓	0,0	

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415	17.0	17.0	17.0 ✓	0,0
416	16.2	16.3	16.2 ✓	0,1
417	17.1	17.1	17.1 ✓	0,0
418	17.2	17.2	17.2 ✓	0,0
419	16.1	16.3	16.2 ✓	1,1
420	16.9	16.7	16.8 ✓	1,1
420a	17.3	17.3	17.3 ✓	0,0
421	16.8	16.8	16.8 ✓	0,0
422	17.2	17.3	17.3 ✓	1,0
423	17.3	17.3	17.3 ✓	0,0
424	17.2	17.2	17.2 ✓	0,0
425	17.1	17.2	17.2 ✓	1,0
426	17.2	17.4	17.3 ✓	1,1
427	17.2	17.4	17.3 ✓	1,1
428	15.8	15.8	15.8 ✓	0,0
429	16.4	16.4	16.4 ✓	0,0
430	16.8	16.6	16.7 ✓	1,1
431	16.8	16.8	16.8 ✓	0,0
432	16.5	16.9	16.7 ✓	2,2
433	16.9	17.0	16.9 ✓	0,1
434	16.8	16.7	16.8 ✓	0,1
435	17.0	17.1	17.1 ✓	1,0
436	17.0	17.1	17.0 ✓	0,1
441	17.2	17.2	17.2 ✓	0,0
442	17.3	17.2	17.3 ✓	0,1
443	16.8	16.8	16.8 ✓	0,0
444	16.9	16.8	16.8 ✓	1,0
445	15.8	15.8	15.8 ✓	0,0
446	16.8	16.9	16.9 ✓	1,0
447	16.8	17.0	16.9 ✓	1,1
448	17.3	17.3	17.3 ✓	0,0

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449	17.3	17.3	17.3 ✓	0,0
450	16.8	16.8	16.8 ✓	0,0
451	17.3	17.3	17.3 ✓	0,0
452	16.9	16.9	16.9 ✓	0,0
453	17.2	17.1	17.2 ✓	0,1
454	17.2	17.2	17.2 ✓	0,0
455	16.8	16.9	16.9 ✓	1,0
456	17.2	17.2	17.2 ✓	0,0
457	17.4	17.3	17.4 ✓	0,1
458	17.3	17.2	17.3 ✓	0,1
459	15.8	16.0	15.9 ✓	1,1
460	16.7	16.8	16.8 ✓	1,0
461	17.1	17.2	17.1 ✓	0,1
462	17.0	17.0	17.0 ✓	0,0
463	16.9	17.0	17.0 ✓	1,0
464	16.7	16.8	16.7 ✓	0,1
465	16.9	16.9	16.9 ✓	0,0
466	17.1	17.0	17.0 ✓	1,0
467	16.4	16.3	16.3 ✓	1,0
468	17.3	17.2	17.2 ✓	1,0
469	16.9	16.9	16.9 ✓	0,0
470	17.3	17.3	17.3 ✓	0,0
471	17.2	17.1	17.1 ✓	1,0
472	17.2	17.1	17.2 ✓	0,1
473	16.5	16.5	16.5 ✓	0,0
474	17.4	17.3	17.3 ✓	1,0
475	17.0	17.2	17.1 ✓	1,1
476	17.2	16.9	17.1 ✓	1,2
477	17.1	17.0	17.0 ✓	1,0
478	15.8	15.8	15.8 ✓	0,0

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479	16.8	16.9	16.9	✓	1,0
480	17.4	17.3	17.4	✓	0,1
481	17.0	17.1	17.1	✓	1,0
482	17.2	17.2	17.2	✓	0,0
483	17.2	17.3	17.2	✓	0,1
484	16.4	16.4	16.4	✓	0,0
485	16.3	16.3	16.3	✓	0,0
486	17.3	17.3	17.3	✓	0,0
487	16.5	16.4	16.5	✓	0,1
488	16.5	16.7	16.6	✓	1,1
489	17.1	17.1	17.1	✓	0,0
490	17.3	17.3	17.3	✓	0,0
491	16.9	16.9	16.9	✓	0,0
492	17.2	17.2	17.2	✓	0,0
493	16.9	17.0	17.0	✓	1,0
494	17.3	17.2	17.3	✓	0,1
495	16.9	17.0	17.0	✓	1,0
496	15.8	15.8	15.8	✓	0,0
497	17.2	17.2	17.2	✓	0,0
498	17.1	17.2	17.1	✓	0,1
499	17.0	17.1	17.0	✓	0,1
500	16.4	16.5	16.5	✓	1,0
501	17.1	17.1	17.1	✓	0,0
502	16.5	16.8	16.6	✓	1,2
503	17.3	17.3	17.3	✓	0,0
504	17.2	17.2	17.2	✓	0,0
505	15.8	15.8	15.8	✓	0,0
506	17.3	17.0	17.1	✓	2,1
507	17.0	17.1	17.0	✓	0,1
508	17.1	17.1	17.1	✓	0,0

Faint star attached

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509	17.2	17.3	17.3	✓	1, 0
510	17.3	17.4	17.4	✓	1, 0
511	16.4	16.8	16.6	✓	2, 2
512	17.1	17.0	17.1	✓	0, 1
513	17.1	17.0	17.0	✓	1, 0
514	17.2	17.2	17.2	✓	0, 0
515	16.8	16.5	16.7	✓	1, 2
516	16.0	15.8	15.9	✓	1, 1
517	17.1	17.1	17.1	✓	0, 0
539	16.8	16.9	16.8	✓	0, 1
540	17.2:	17.2:	17.2:	✓	0, 0 Nebula ? Ft. st. att.
541	16.4	16.6	16.5	✓	1, 1
542	16.5	16.8	16.7	✓	2, 1
543	16.4	16.4	16.4	✓	0, 0
544	16.4	16.4	164	✓	0, 0
545	16.5	16.6	16.6	✓	1, 0
546	16.8	16.9	16.9	✓	1, 0
547	16.2	16.1	16.2	✓	0, 1
548	16.9	16.9	16.9	✓	0, 0
549	16.2	16.1	16.1	✓	1, 0
550	17.2	17.1	17.2	✓	0, 1
551	15.8	15.9	15.9	✓	1, 0
552	17.4	17.3	17.4	✓	0, 1
553	16.7	16.7	16.7	✓	0, 0
554	17.2	17.2	17.2	✓	0, 0
555	15.9	15.8	15.9	✓	0, 1
556	15.6	15.5	15.6	✓	0, 1
557	17.3	17.2	17.2	✓	1, 0
558	16.7	16.7	16.7	✓	0, 0
559	17.1	17.1	17.1	✓	0, 0

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560	16.9	16.9	16.9 ✓	0,0	
561	16.9	16.8	16.8 ✓	1,0	
562	17.1	17.1	17.1 ✓	0,0	
563	17.2	17.2	17.2 ✓	0,0	
564	17.0	17.0	17.0 ✓	0,0	
565	16.8	16.8	16.8 ✓	0,0	
566	17.2	17.2	17.2 ✓	0,0	
567	17.2	17.2	17.2 ✓	0,0	
568	16.8	16.8	16.8 ✓	0,0	
569	16.8	16.8	16.8 ✓	0,0	
570	17.1	17.1	17.1 ✓	0,0	
571	17.3	17.3	17.3 ✓	0,0	
572	17.0	17.1	17.1 ✓	1,0	
573	17.0	17.0	17.0 ✓	0,0	
574	17.4	17.4	17.4 ✓	0,0	Nebula?
575	17.2	17.1	17.2 ✓	0,1	
576	17.2	17.1	17.1 ✓	1,0	
577	17.3	17.4	17.4 ✓	1,0	
578	16.3	16.3	16.3 ✓	0,0	
579	17.2	17.2	17.2 ✓	0,0	Nebula?
580	17.2	17.3	17.3 ✓	1,0	Nebula?
581	15.1	15.1	15.1 ✓	0,0	
582	17.2	17.2	17.2 ✓	0,0	
583	17.3	17.4	17.4 ✓	1,0	Nebula?
584	16.5	16.4	16.5 ✓	0,1	
585	17.0	17.0	17.0 ✓	0,0	
586	17.0	17.0	17.0 ✓	0,0	
587	16.8	16.8	16.8 ✓	0,0	
588	17.0	17.0	17.0 ✓	0,0	
589	17.2	17.2	17.2 ✓	0,0	

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590	16.7	16.8	16.8	1,0	
591	16.9	16.9	16.9	0,0	
592	16.5	16.6	16.5	0,1	
593	16.6	16.8	16.7	1,1	
594	17.1	17.1	171	0,0	
595	16.8	16.8	16.8	0,0	
596	16.8	16.8	16.8	0,0	
597	17.2	17.1	17.2	0,1	
598	16.8	16.9	16.9	1,0	
599	17.3	17.3	17.3	0,0	
600	16.3	16.2	16.2	1,0	
601	16.8	16.8	16.8	0,0	
602	17.3	17.2	17.3	0,1	
602a	17.3	17.2	17.2	1,0	
603	17.2	17.2	17.2	0,0	
604	16.9	16.8	16.9	0,1	
605	17.2	17.1	17.2	0,1	
608	17.0	17.1	17.1	1,0	
609	17.2	17.1	17.2	0,1	
610	17.4	17.4	17.4	0,0	Nebula?
611	17.3	17.3	17.3	0,0	Nebula?
612	16.1	16.1	16.1	0,0	
613	16.6	16.9	16.7	1,2	
614	16.5	16.4	16.5	0,1	
615	16.4	16.4	16.4	0,0	
616	16.2	16.4	16.3	1,1	
617	16.4	16.5	16.4	0,1	
617a	16.0	15.8	15.9	1,1	
618	17.3	17.3	17.3	0,0	
619	17.3	17.3	17.3	0,0	
620	17.2	17.2	17.2	0,0	

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621	16.8:	16.9:	16.9:	1,0	Bright star close
622	17.3	17.4	17.4	1,0	
623	17.0	16.9	16.9	1,0	
624	16.5	16.7	16.6	1,1	
625	17.2	17.2	17.2	0,0	
626	16.6:	16.7:	16.6:	0,1	Bright star attached
627	17.2	17.2	17.2	0,0	
628	16.6	16.6	16.6	0,0	
629	17.0	16.9	16.9	1,0	
630	17.2	17.1	17.2	0,1	
631	17.0	16.9	16.9	1,0	
632	17.3	17.2	17.2	1,0	
633	17.2	17.3	17.3	1,0	
635	17.3	17.3	17.3	0,0	
636	16.7	16.8	16.8	1,0	
637	16.5	16.5	16.5	0,0	
638	17.4	17.3	17.3	1,0	
639	17.4	17.3	17.4	0,1	"nebula?"
640	16.9	16.9	16.9	0,0	
641	17.2	17.2	17.2	0,0	
644	17.0	16.9	16.9	1,0	
645	17.2	17.2	17.2	0,0	
646	17.3	17.2	17.2	1,0	
647	17.2	17.2	17.2	0,0	

IN RED (FROM A7374)

1	16.9	16.9	16.9	0,0	= MENZEL 1602+1608.4
2	16.1	16.2	16.1	0,1	faint star attached = MENZEL 1602+1557.2
3	15.7	15.8	15.8	1,0	=121
4	15.8	15.9	15.9	1,0	=120
5	16.8	17.0	16.9	1,1	= MENZEL 1601+1602.8

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6	15.9	15.9	15.9 ✓	0,0	= MENZEL 1601+1604.6
7	15.9	15.9	15.9 ✓	0,0	=118
8	16.2	16.2	16.2 ✓	0,0	= MENZEL 1601+1649.2
9	16.4	16.4	16.4 ✓	0,0	= " 1601+1651.4
10	15.8	15.8	15.8 ✓	0,0	= 11?
11	16.5:	16.4:	16.4: ✓	1,0	star involved = MENZEL 1601+1648.4
12	16.7	16.6	16.7 ✓	0,1	=112
13	16.4	16.5	16.4 ✓	0,1	=113
14	16.5	16.6	16.5 ✓	0,1	=114
15	15.8	15.9	15.8 ✓	0,1	=11?
16	16.1	16.3	16.2 ✓	1,1	=126
17	15.6	15.6	15.6 ✓	0,0	=125
18	16.1	16.0	16.1 ✓	0,1	=128
19	16.4	16.4	16.4 ✓	0,0	=130
20	16.1	16.0	16.0 ✓	1,0	=129
21	15.4	15.5	15.5 ✓	1,0	=127
22	15.9	16.1	16.0 ✓	1,1	= MENZEL 1557+1615.0
23	16.3	16.2	16.2 ✓	1,0	= MENZEL 1557+1612.8
24	16.1	16.0	16.1 ✓	0,1	= " 1557+1610.8
25	16.2	16.2	16.2 ✓	0,0	= " 1557+1609.9
26	15.8	15.8	15.8 ✓	0,0	= I.C. 1163
27	16.8	16.8	16.8 ✓	0,0	= I.C. 1159
28	16.2	16.2	16.2 ✓	0,0	= I.C. 1160
29	16.8	17.0	16.9 ✓	1,1	= I.C. 1157
30	15.8	15.6	15.7 ✓	1,1	= I.C. 1161
31	15.8	15.8	15.8 ✓	0,0	= 131
32	16.6	16.9	16.8 ✓	2,1	= 11?
33	16.3	16.3	16.3 ✓	0,0	= M. 1559+1615.4
I.C.					
1155	16.0	16.2	16.1 ✓	1,1	

cf. P 151 for 14 additional nebulae

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CLUSTER No. 1 (CONTINUED)

IN RED (FROM A 7374)

1	15.8	15.8	15.8	0,0	=105
2	17.3	17.2	17.3	0,1	use as new on this plate
3	16.8:	16.6:	16.7:	1,1	=101 Faint star attached.
4	16.4	16.4	16.4	0,0	= MENZEL 1559+1745.0
5	16.8	16.6	16.7	1,1	= " 1558+1804.9
6	17.3	17.2	17.2	1,0	use as new on this plate
7	15.9	15.9	15.9	0,0	=81
8	16.5	16.7	16.6	1,1	=58
9	16.6	16.5	16.5	1,0	use as new on this plate

CF. BELOW FOR CONTINUATION

CLUSTER No. 2 (CONTINUED)

1248	17.0	17.1	17.0 ✓	0,1	
1249	16.8	16.8	16.8 ✓	0,0	
1250	17.1	17.2	17.2 ✓	1,0	
1251	17.2:	17.3:	17.3: ✓	1,0	Faint star attached?
1252	17.0	17.2	17.1 ✓	1,1	
1253	17.0	17.1	17.1 ✓	1,0	
1254	16.0	16.2	16.1 ✓	1,1	
1255	17.3	17.2	17.2 ✓	1,0	
1256	17.1	17.0	17.0 ✓	1,0	
1257	16.9	16.9	16.9 ✓	0,0	
1258	17.2	17.2	17.2 ✓	0,0	
1259	16.6	16.5	16.5 ✓	1,0	
1260	16.7	16.8	16.8 ✓	1,0	
1261	16.5	16.7	16.6 ✓	1,1	

CLUSTER No. 1 (CONTINUED) REMEASUREMENT OF 82 NEBULAE FROM A 7274

10	16.3	16.4	16.3	0,1	= 77
11	16.8	16.8	16.8	0,0	= c

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1932phae.proj.2342M

12	16.6	16.8	16.7	1,1 = 76
13	16.2	15.8	16.0	2,2 = M 1602+1744.4
14	17.0	16.9	17.0	0,1 = 47
15	16.4	16.4	16.4	0,0 = 48
16	16.2	16.1	16.1	1,0 = I. 1188
17	16.4	16.4	16.4	0,0 = I. 1186
18	16.5	16.4	16.4	1,0 = M 1602+1803.2
19	15.6	15.6	15.6	0,0 = I. 1194
20	16.4	16.5	16.5	1,0 = 88
21	16.3	16.2	16.2	1,0 = I. 1193
22	16.7	16.5	16.6	1,1 = I. 1192
23	16.2	16.1	16.1	1,0 = 79
24	17.1	17.3	17.2	1,1 = 78
25	16.4	16.4	16.4	0,0 = M. 1602+1817.7
26	16.0	16.0	16.0	0,0 = 89
27	16.3	16.4	16.4	1,1 = 80
28	16.8	16.5	16.7	1,2 = M. 1601+1813.8
29	16.9	16.9	16.9	0,0 = 82
30	16.7	16.6	16.6	1,0 = M. 1601+1821.8
31	16.5	16.6	16.5	0,1 = M. 1601+1817.7
32	15.4	15.6	15.5	1,1 = N. 6056
33	16.4	16.6	16.5	1,1 = N. 6057
34	17.3	17.2	17.2	1,0 = I. 1189
35	16.6	16.6	16.6	0,0 = M. 1601+1828.3
36	16.8	16.8	16.8	0,0 = I. 1190
37	15.4	15.4	15.4	0,0 = N 6061
38	16.4	16.2	16.3	1,1 = M. 1601+1829.9
39	16.0	16.0	16.0	0,0 = N. 6055
40	15.5	15.5	15.5	0,0 = N. 6053
41	16.4	16.3	16.3	1,0 = M. 1601+1833.2

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1992phae.proj.234M

42	16.5	16.6	16.6	1,0	= M. 1600 + 1837.2
43	16.1	16.1	16.1	0,0	= I 1177
44	16.5	16.4	16.5	0,1	= 60
45	16.2	16.4	16.3	1,1	= 59
46	15.9	16.1	16.0	1,1	= 56
47	17.1	17.2	17.2	1,0	= 92
48	16.4	16.4	16.4	0,0	= 65
49	16.5	16.5	16.5	0,0	= M. 1559 + 1816.2
50	16.7	16.8	16.7	0,1	= 66
51	17.0	16.9	17.0	0,1	= 64
52	16.4	16.4	16.4	0,0	= M. 1600 + 1811.1
53	16.6	16.6	16.6	0,0	= I. 1184
54	15.8	15.8	15.8	0,0	= I. 1183
55	15.3	15.3	15.3	0,0	= I. 1185
56	16.3	16.4	16.3	0,1	= M. 1600 + 1758.3
57	15.4	15.4	15.4	0,0	= I. 1181
58	16.8	16.8	16.8	0,0	= M. 1600 + 1759.6
59	15.8	15.9	15.8	0,1	= M. 1600 + 1802.0
60	15.8	15.9	15.9	1,0	= I. 1182
61	16.4	16.6	16.5	1,1	= N. 6054.
62	16.8:	16.9:	16.8:	0,1	Close to 63+64
63	17.0:	17.1:	17.1:	1,0	N. 6050 Close to 64+62
64	17.0:	17.1:	17.0:	0,1	Close to 62+63
65	15.8	15.7	15.7	1,0	= N. 6044
66	15.7	15.7	15.7	0,0	= N. 6043
67	15.8	15.8	15.8	0,0	= N. 6045
68	17.0	17.1	17.0	0,1	= 90
69	16.5	16.4	16.5	0,1	= N. 6041
70	15.9	16.0	16.0	1,0	= N. 6040
71	15.9	15.8	15.9	0,1	= b

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	72	16.2	16.0	16.1	1, 1	= I 1170
	73	15.8	15.8	15.8	0, 0	= M 1600+1800.0
	74	16.0	15.9	16.0	0, 1	= N. 6042
	75	16.4	16.4	16.4	0, 0	= M. 1601 +1752.6
	76	16.7	16.9	16.8	1, 1	= 74
	77	16.1	16.2	16.1	0, 1	= 73
	78	16.6	16.5	16.6	0, 1	= 104
	79	16.9	16.8	16.9	0, 1	= 103
	80	15.8	15.8	15.8	0, 0	= 72
	81	16.7:	16.6:	16.6:	1, 0	= 71 Ft. star(?) near
	82	17.2	17.2	17.2	0, 0	= 102
	83	17.0	17.1	17.1	1, 0	= 69 nebula?
	83a	16.3	16.3	16.3	0, 0	= 70
	84	16.8	16.8	16.8	0, 0	= 68
near 30	85	15.8	15.9	15.8	0, 1	= M. 1601 +1820.0
near 74	86	16.9	16.8	16.9	0, 1	= 91
near 70	87	16.8	16.8	16.8	0, 0	= M. 1559 +1809.6
near 37	88	16.5	16.6	16.6	1, 0	= 61
near 52	89	16.8	16.7	16.7	1, 0	= 83
	90	16.4	16.4	16.4	0, 0	= M. 1600 +1808.0
near 22	91	15.8	15.9	15.8	0, 1	= 1602 +1809.9
near 48	92	16.8	17.0	16.9	1, 1	= 67

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1932phot.proj.234M

A 14299

3 53 −57.7

TOTAL NO. OF NEB. IN CLUSTER = ~~164~~ 163 CLUSTER AT LEFT OF CENTER, SEQUENCE AT RIGHT

No.	A 14299 1ST MEASURE MAG.	A 14299 2ND MEASURE MAG.	MEAN	m_s	RESIDUALS	REMARKS
304	17.8	17.8	24 a9	17.8	17.1 0,0	
305	16.9	16.8	24 c7	16.8	15.8 1,0	
306	17.0	16.8	24 b8	16.9	16.1 1,1	
307	17.7	17.9	18 a8	17.8	16.4 1,1	Nebula?
308	18.0	18.1	12 b8	18.1	15.8 1,1	
309	17.8	17.9	18 b10	17.9	16.7 1,0	
310	17.0:	16.9:	18 c9	17.0:	15.7: 0,1	Bright star close
310a	18.3	18.2	18 b8	18.3	16.9 0,1	Nebula?
311	17.6	17.6	18 b9	17.6	16.3 0,0	
314	17.9	17.8	18 b7	17.8	16.2 1,0	F.S.B
315	17.6	17.6	18 b8	17.6	16.2 0,0	
316	17.9	17.9	24 b8	17.9	17.1 0,0	
317	17.1	17.1	24 c8	17.1	16.3 0,0	
318	17.7	17.6	18 a9	17.7	16.4 0,1	
319	17.5	17.5	18 b10	17.5	16.3 0,0	
320	16.6	16.7	18 b10	16.6	15.4 0,1	
321	16.7	16.9	24 c9	16.8	16.1 1,1	
322	16.8	17.0	18 a10	16.9	15.7 1,1	
323	17.6	17.7	18 b9	17.7	16.4 1,0	
323a	16.4	16.4	18 b9	16.4	15.1 0,0	
324	17.6	17.6	18 b9	17.6	16.3 0,0	
325	17.1	17.1	18 c8	17.1	15.7 0,0	
326	17.5	17.7	18 b9	17.6	16.3 1,1	F.SB
327	17.5	17.5	18 b9	17.5	16.2 0,0	
328	17.7	17.9	24 c4	17.8	16.2 1,1	
329	17.0	17.1	24 b8	17.0	16.2 0,1	
330	17.9	18.1	30 b8	18.0	17.7 1,1	
331	16.8	17.0	24 c9	16.9	16.2 1,1	

28 27

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✓	✓	332	16.4	16.4	24	c8	16.4 ✓	15.6 ✓	0,0	
		~~333~~	~~17.2~~	~~17.1~~			17.1 ✓		~~1,0~~	rejected
✓	✓	334	17.2	17.2	24	b8	17.2 ✓	16.4 ✓	0,0	
✓	✓	335	17.3	17.4	24	b8	17.4 ✓	16.6 ✓	1,0	
✓	✓	336	17.5	17.7	18	b9	17.6 ✓	16.3 ✓	1,1	
✓	✓	337	17.6	17.8	18	c9	17.7 ✓	16.4 ✓	1,1	
✓	✓	338	17.9	18.0	18	b9	17.9 ✓	16.6 ✓	0,1	
✓	✓	339	17.5	17.5	30	a4	17.5 ✓	16.4 ✓	0,0	F.S.B
✓	✓	340	18.2	18.2	24	b8	18.2 ✓	17.4 ✓	0,0	
✓	✓	341	17.1	17.1	18	b10	17.1 ✓	15.9 ✓	0,0	
✓	✓	342	17.3	17.4	18	c9	17.4 ✓	16.1 ✓	1,0	
✓	✓	343	16.8	16.9	18	b9	16.9 ✓	15.6 ✓	1,0	
		~~344~~	~~17.7~~	~~17.6~~			17.6 ✓		~~1,0~~	rejected
✓	✓	345	17.4	17.3	18	b7	17.3 ✓	15.7 ✓	1,0	
✓	✓	346	16.9	16.9	24	c9	16.9 ✓	16.2 ✓	0,0	
✓	✓	347	17.9	17.9	24	b10	17.9 ✓	17.3 ✓	0,0	
✓	✓	348	17.7	17.6	18	b10	17.6 ✓	16.4 ✓	1,0	
✓	✓	349	17.1	17.1	24	b8	17.1 ✓	16.3 ✓	0,0	
✓	✓	350	17.3	17.3	18	b10	17.3 ✓	16.1 ✓	0,0	
✓	✓	351	17.2	17.2	18	b9	17.2 ✓	15.9 ✓	0,0	
✓	✓	352	18.3	18.3	24	b7	18.3 ✓	17.3 ✓	0,0	
✓	✓	353	17.9	18.1	18	a8	18.0 ✓	16.6 ✓	1,1	Nebula?
✓	✓	354	17.7	17.6	18	b10	17.7 ✓	16.5 ✓	0,1	
✓	✓	355	17.8	17.9	24	b10	17.8 ✓	17.2 ✓	0,1	
		~~356~~	~~17.4~~	~~17.4~~			17.4 ✓		~~0,0~~	rejected
		~~357~~	~~17.1~~	~~17.1~~			~~17.1~~ ✓		~~0,0~~	..
✓	✓	358	17.7	17.9	18	a9	17.8 ✓	16.5 ✓	1,1	
✓	✓	359	18.2	18.2	18	b10	18.2 ✓	17.0 ✓	0,0	
✓	✓	360	16.6	16.6	18	c10	16.6 ✓	15.4 ✓	0,0	
✓	✓	361	17.5	17.4	18	b9	17.5 ✓	16.2 ✓	0,1	F.S.B.

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362	17.5	17.4	17.4	1,0
363	17.7	17.6	17.7	0,1
364	17.1	17.2	17.2	1,0
367	17.9	17.9	17.9	0,0
368	17.2	17.1	17.1	1,0
369	17.5	17.4	17.4	1,0
370	17.2	17.1	17.1	1,0
371	16.9	16.8	16.8	1,0
372	17.1	17.1	17.1	0,0
373	17.4	17.2	17.3	1,1
374	17.1	17.2	17.1	0,1
375	17.0	17.0	17.0	0,0
376	16.9	16.9	16.9	0,0
377	18.3	18.1	18.2	1,1
378	18.3	18.1	18.2	1,1
379	18.3	18.2	18.2	1,0
380	17.8	17.6	17.7	1,1
381	16.9	16.9	16.9	0,0
382	17.5	17.3	17.4	1,1
383	17.2	17.3	17.3	1,0
384	16.8	16.6	16.7	1,1
385	17.8	17.7	17.8	0,1
386	17.7	17.6	17.7	0,1
387	17.1	17.1	17.1	0,0
388	17.9	18.1	18.0	1,1
389	17.2	17.2	17.2	0,0
390	16.9	16.8	16.8	1,0
391	17.1	17.0	17.1	0,1
392	18.1	18.1	18.1	0,0
393	16.9	16.9	16.9	0,0

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394	16.9	17.0	17.0	1, 0	
395	16.8	16.9	16.9	1, 0	
396	18.2	18.1	18.2	0, 1	
397	16.9	16.8	16.9	0, 1	
398	17.3	17.2	17.2	1, 0	
399	17.0	17.1	17.1	1, 0	
400	17.4	17.6	17.5	1, 1	
401	16.6	16.7	16.6	0, 1	
402	17.2:	17.4:	17.3:	1, 1	Star attacked
403	16.8	16.6	16.7	1, 1	
404	17.0	16.9	16.9	1, 0	
405	16.7	16.6	16.6	1, 0	
406	18.2	18.2	18.2	0, 0	
407	18.2	18.3	18.3	1, 0	
408	16.5	16.6	16.6	1, 0	
408a	17.9	18.0	18.0	1, 0	
409	17.2	17.2	17.2	0, 0	Nebula ???
410	17.8	17.7	17.7	1, 0	
411	17.2	17.2	17.2	0, 0	
412	17.1	17.1	17.1	0, 0	
413	17.8	17.7	17.8	0, 1	
414	17.8	17.7	17.7	1, 0	
415	18.3	18.2	18.2	1, 0	Nebula?
416	17.0	17.1	17.1	1, 0	
416a	16.9	16.8	16.8	1, 0	
~~417~~	~~17.7~~	~~17.7~~	~~17.7~~	0, 0	rejected
418	16.7	16.7	16.7	0, 0	
419	18.2	18.1	18.2	0, 1	
420	17.2	17.3	17.3	1, 0	
422	18.3	18.3	18.3	0, 0	
423	17.1	17.1	17.1	0, 0	
424	17.1	17.2	17.2	1, 0	

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425	17.1	17.1	17.1	0,0	
426	18.2	18.1	18.1	1,0	Nebula?
427	17.8	17.8	17.8	0,0	
428	17.1	17.2	17.2	1,0	
429	16.9	16.8	16.8	1,0	Nebula?
430	18.2	18.1	18.1	1,0	
431	18.3	18.2	18.2	1,0	
433	18.1	18.0	18.1	0,1	
434	18.1	18.0	18.0	1,0	
442	17.9	18.0	18.0	1,0	
443	18.1	18.2	18.1	0,1	
444	17.0	17.1	17.1	1,0	Nebula ??
445	18.1	18.1	18.1	0,0	Nebula?
446	17.2	17.3	17.2	0,1	
447	18.2	18.1	18.1	1,0	
541	18.1	18.1	18.1	0,0	
542	17.8	17.6	17.7	1,1	
543	17.8	17.9	17.8	0,1	
544	18.1	18.2	18.1	0,1	
545	17.5	17.5	17.5	0,0	
546	17.7	17.5	17.6	1,1	Nebula? Star involved?
547	17.5	17.4	17.4	1,0	
548	17.0	16.9	16.9	1,0	
549	17.6	17.8	17.7	1,1	
550	17.0	17.1	17.0	0,1	
551	17.8	17.8	17.8	0,0	
552	17.7	17.6	17.5	1,1	
553	17.2	17.4	17.3	1,1	
554	17.6	17.4	17.5	1,1	
555	17.1	17.2	17.1	0,1	

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✓ ✓ 556	17.1	17.1	17.1 ✓	0,0
✓ ✓ 557	17.3	17.2	17.2 ✓	1,0
FROM A4184 (IN BLUE)				
✓ ✓ 1	16.7	16.7	16.7 ✓	0,0
✓ ✓ 2	15.9	15.8	15.9 ✓	0,1
✓ ✓ 3	16.6	16.6	16.6 ✓	0,0
✓ 108 = ✓ 4	15.6	15.5	15.6 ✓	0,1
✓ ✓ 5	15.9	16.0	15.9 ✓	0,1
✓ 107 = ✓ 6	16.4	16.4	16.4 ✓	0,0
✓ 237 = ✓ 7	15.9	16.1	16.0 ✓	1,1
✓ ✓ 8	16.6	16.6	16.6 ✓	0,0
✓ ✓ 9	16.2	16.2	16.2 ✓	0,0
✓ 97 = ✓ 10	16.6	16.6	16.6 ✓	0,0
✓ 96 = ✓ 11	17.1	17.0	17.0 ✓	1,0
✓ ✓ 12	16.8	16.6	16.7 ✓	1,1
✓ ✓ 13	16.6	16.6	16.6 ✓	0,0
✓ 100 = ✓ 14	16.7	16.7	16.7 ✓	0,0
✓ ✓ I.C. 1996	16.3	16.4	16.3 ✓	0,1
✓ ✓ I.C. 1999	16.1	16.1	16.1 ✓	0,0

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TOTAL No. OF NEB. IN CLUSTER # 1 = 7 — CLUSTER HALF-WAY TO EDGE; SEQ. IN CENTER.

TOTAL No. OF NEB. IN CLUSTER # 2 = 11 — CLUSTER HALF-WAY TO EDGE; SEQ IN CENTER.

CLUSTER No. 1	No.	MAG. 1	MAG. 2	MEAN	RESIDUALS	
	383	17.2:	17.4:	17.3:	1, 1	attached to 385
	384	17.8	17.8	17.8	0, 0	
	385	16.0:	16.1:	16.0:	0, 1	attached to 383
	386	17.0	16.8	16.9	1, 1	
	387	16.7	16.6	16.7	0, 1	
	388	17.0	16.9	17.0	0, 1	
	389	16.6	16.5	16.5	1, 0	

CLUSTER No. 2					
	336	16.7	16.6	16.6	1, 0
	337	15.9	15.9	15.9	0, 0
	338	16.7	16.7	16.7	0, 0
	339	17.3	17.2	17.3	0, 1
	340	16.5	16.5	16.5	0, 0
	341	16.6	16.6	16.6	0, 0
	342	15.8	15.8	15.8	0, 0
	343	17.8	17.9	17.8	0, 1
	344	17.1	17.2	17.1	0, 1
	345	16.6	16.8	16.7	1, 1
	346	17.5	17.5	17.5	0, 0

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