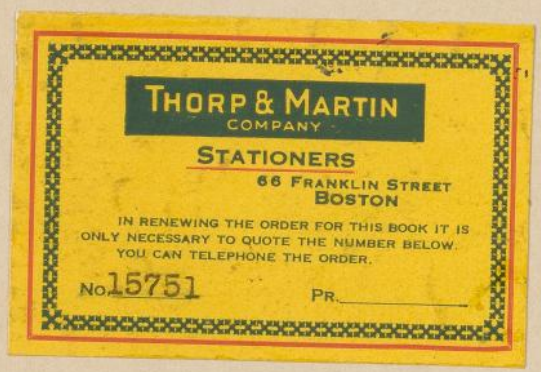
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Magnitudes of Nebulae

Sylvia F. Musselle

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Index

7 Trial Mag. (H.S. & M.E.M.)
9 Ry. Mag. of Neb. with Vel.
12 Group 7619
14 Mag. of St. Neb. (
20 Nebulae with tremendous vel.
21 Doubtful neb. (sign by Hardcastle but not mentioned elsewhere)
29 Measurements with the Schilt Chronometer

53 H. 8494 187
55 3346 407 · Mags. remeasured comp. 124 with micrometer.
62 4184 230 ·
65 5655 13 ·
69 5695 3
66 5656 24
67 5546 31
68 6504 27
71 6909 3
72 7412 9
73 7451 3 + ·

937
McCoy Universe in Back of Book (Mags., Class. & Diameters)

76 12415
88 14222 Groups of nebulae only. I + II
91 4749 Groups
100 15854
124 3346 Region 8
131 14272 "
147 14280 "
157 4181 "
159 4179 "
162 4183 "
171 15879 "

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A 13719
AX 517

AX A

Nebular Groups	No.	MEM Mag.	H8, Mag.	HS₂ Mag	HS₃ Mag	Mean Magnitude
CW Cent. 1927	BRIGHT					
Sequence used:	3	13.6	13.5	13.3	(13.5)	13.5 ✓
A = 6.4	4	14.0	14.3:	14.4,	14.5	14.3 ✓
B = 7.1	2	14.5	14.0	14.2,	14.0	14.2 ✓
C = 7.7	5				{14.8 ~~15.0~~	14.9 ✓
D = 8.5	6				15.2	15.2
a' = 9.8	9				16.0	16.0
b' = 9.9	1	15.0:(?)	14.5:	14.5:	14.8	14.7 ✓
d' = 11.1	72				{16.0 16.2	16.1 ✓
e' = 11.4	8				14.2	14.2 ✓
(e'f') = 11.7	FAINT + SCATTERED					
(f') = 12.2	73				17.2	17.2
(h') = 12.8	7				{16.8' ~~+6~~	16.1
(l') = 13.4	60				17.1	17.1
As nebulae were	10				{16.3 16.5	16.4
fainter than faintest	13				~~16.7~~ ? superposed star ?	
star of sequence	65				17.3	17.3
(13.4) the mags.	14				16.7	16.7 ✓

derived of mags.

were guessed."

Mean of 9 is ~~14.8~~ ✓ 14.7 ✓
Mode " " " 14.7 ✓

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✓ II ×

	v	$p_{\odot}$	m_*	M_*	Diff $m_{\odot}-m_*$	Means Mag.
278	+ 650	11.8	12.0	− 13.9	− 0.2	
404	− 25	11.9	11.1	—	+ 0.8	
584	+ 1800	11.9	10.9	16.8	+ 1.0	
936	+ 1300	11.3	11.1	15.7	+ 0.2	
1023	+ 300	11.2	10.2	13.8	+ 1.0	
1700	+ 800	12.0	12.5	12.8	− 0.5	
2681	+ 700	~~11.6~~ 11.4	10.7	15.0	+ ~~0.9~~ 0.7	
2683	+ 400	11.4	9.9	14.3	+ 1.5	
2841	+ 600	~~11.0~~ 10.5	9.4	16.1	+ ~~1.6~~ 1.1	
3034	+ 290	8.6	9.0	15.5	− 0.4	
3115	+ 600	10.0	9.5	15.5	+ 0.5	
3368	+ 940	9.9	10.0	16.2	− 0.1	
3379	+ 810	10.0	9.4	16.4	+ 0.6	
3489	+ 600	10.4	11.2	14.0	− 0.8	
3521	+ 730	9.8	10.1	15.4	− 0.3	
3623	+ 800	9.5	9.9	16.0	− 0.4	
4111	+ 800	10.8	10.1	16.1	+ 0.7	
4526	+ 580	10.9	11.1	14.3	− 0.2	
4565	+ 1100	10.4	11.0	15.9	− 0.6	
4594	+ 1140	9.0	9.1	17.6	− 0.1	
5005	+ 900	10.6	11.1	15.5	− 0.5	
5866	+ 650	11.0	11.7	− 14.5	− 0.7	
7619	+3780	14.8	—		mean +0.18	

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Radial Vels from Proc. Nat. Acad. Sci. 15, 1929 Velocities

I Hubble's Table 1. neb. with k. dw

	v	m SFM	m pt	m_g	M_t	Diff $m_g - m_t$	N	Light
SMag	+ 170		1.5	---	-16.0		0.032	-1.50
LMag	+ 290		0.5	---	-17.2		0.03	-1.52
221	-185	8.9	8.8	--	-13.4	+0.1	0.275	-0.60
224	-220	—	5.0	--	-17.2		0.275	-0.60
598	-70	8.9	7.0	--	-15.1	+1.9	0.263	-0.58
1068	+ 920	9.3	9.1	18.7	-15.9	+0.2	1.0	0.00
3031	- 30 (81)	8.0	8.3	18.5	-16.4	-0.3	0.9	-0.05
3627	+ 650	9.0	9.1	18.5	-15.7	-0.1	0.9	-0.05
4151	+ 960	10.6	12.0	20.0	-14.2	-1.4	1.7	+0.23
4214	+ 300	10.6	11.3	18.3	-13.2	-0.7	6.8	-0.50
4258	+ 500	9.8	8.7	19.5	17.0	+1.1	1.4	+0.15
4382	+ 500	10.9	10.0	--	16.5	+0.9	CV	(+0.30)
4449	+ 200	9.6	9.5	17.8	14.5	+0.1	0.63	-0.20
4472	+ 850	10.2	8.8	--	17.7	+1.4	CV	(+0.30)
4486	+ 800	10.5	9.7	---	16.8	+0.8	CV	(+0.30)
4649	+ 1090	10.5	9.5	--	17.0	+1.0	CV	(+0.30)
4736	+ 290	8.7	8.4	17.3	15.1	+0.3	0.5	-0.30
4826	+ 150	9.4 ~~10.2~~	9.0	18.5	15.7	+~~1.2~~ 0.4	0.9	-0.05
5055	+ 450	9.8	9.6	19.0	16.6	+0.2	1.1	+0.04
5194	+ 270	8.4	7.4	17.3	16.1	+1.0	0.5	-0.30
5236	+ 500	8.8	10.4	18.5	14.4	+1.6	0.9	-0.05
5457	+ 200 (M 101)	9.8	9.9	17.0	13.3	-0.1	0.45	-0.35
6822	- 130	11.2	9.0	—	12.7	+1.2	0.214	-0.67
7331	+ 500	10.0	10.4	A.0	14.8	-0.4	mean +0.5 (+48)	+0.04
7619	+3750	14.8						

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Photographic Magnitudes of Nebulae with Velocities

Object	Vobs. Hubble	Vobs. Eddington	V_0	Holet. (corr) m_t	Pg. Mag. Harvard Plates SFM	MM	W	Mean SFM+MM	(dist) r	log r	$d = 10^{0.2m - 2.0}$
S Mag. Cl.	+170	+5		1.5				(2.3)	0.032	−1.50	0.03
L. Mag. Cl	+290	+55		0.5				(1.3)	0.037	−1.52	0.02
N.G.C. 205	−300	−195		9.3	11.5_{+3}	11.0_{-2}	10.9	11.25	(0.273)	(−0.56)	1.78
221	−185 −300	−85		8.8	8.9_{+2}	8.5_{-2}	8.2	8.7	0.273	−0.56	0.55
224	−220 −300	−120		5.0	Andromeda	16.8!	+6.	(5.8:)	0.273	−0.56	0.14
278	+650	+760		12.0	11.85_{+1}	11.6_{-1}	11.8	11.7			2.19
404	−25	+40		11.1	11.9_{+3}	11.3_{-3}	11.0	11.6			2.09
584	+1800	+1725		10.9	11.9_{+1}	11.6_{-2}	11.8	11.75			2.24
(M33) 598	−70 −260	−40		7.0	8.9_{-1}	9.0_{0}	7.8?	8.95	0.263	−0.58	0.62
936	+1300	+1185		11.1	11.3_{+1}	11.0_{-2}	11.5	11.15			1.70
1023	+300	+310		10.2	11.15_{0}	11.2_{0}	9.5	11.20			1.74
1068	+920 +1120	+795		9.1	9.27_{-6}	10.4_{+6}	10.0	9.85	1.0	0.00	0.93
1700	+800	+580		12.5	11.97_{-1}	12.2_{+1}	11.7	12.1			2.63
2681	+700	+710		10.7	11.4_{+1}	11.2_{-1}	10.4	11.3			1.82
2683	+400	+335		9.9	11.35_{0}	11.3_{0} (or 10.6)	8.6	11.3			1.82
2841	+600	+620		9.4	10.5_{0}	10.5_{0}	8.8	10.5			1.26
3031	−30	+75		8.3	8.6_{+1}	8.4_{+1}	8.5	8.5	0.9	−0.05	0.50
3034	+290	+395		9.0	8.65_{+1}	8.5_{0}	7.5	8.55			0.51
3115	+600	+495		9.5	9.95_{+1}	9.8_{-1}	8.2	9.9			0.96
3368	+940	+870		10.0	9.90_{+1}	9.8_{0}	9.0	9.85			0.93
3379	+810 +780	+745		9.4	10.03_{-2}	10.4_{+2}	10.6	10.2			1.09
3489	+600	+550		11.2	10.4_{-1}	10.6_{+1}	9.2	10.5			1.26
3521	+730	+635		10.1	9.77_{-1}	9.9_{+1}	8.7	9.85			0.93
3623	+800	+765		9.9	9.5_{-3}	10.0_{+2}	8.4	9.75			0.90
3627	+650	+590		9.1	9.8_{-2}	10.2_{+2}	8.55	10.0	0.9	−0.05	1.00
4111	+800	+895		10.1	10.8_{-2}	11.3_{+3}	11.0	11.05			1.62
4151	+960 +980	+1050		12.0	10.6_{-3}	11.2_{+3}	10.8	10.9	1.7	+0.23	1.51
4214	+300	+385		11.3	10.6_{+1}	10.5_{0}	8.3	10.55	0.8	−0.10	1.29

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Photographic Magnitudes of Nebulae with Velocities

Object	V obs. Hubble	V_0 Eddington	Holet (corr.) m_t	Rg. Mag. Harvard Plates S.F.M.	M.M.	H	Mean SFM+M.M	(dist.) r	log r	$10^{0.2m-2.0}$
4258	+500	+455	8.7	9.85_0	9.8_0	8.5	9.8	1.4	+0.15	0.91
4449	+200	+230	9.5	9.55_0	9.5_0	8.7	9.5	0.63	−0.20	0.79
4565	+1100	+1175	11.0	10.7_{-2}	10.5_{+1}	10.3	10.35			1.18
4594	+1140 (+1120)	+1115	9.1	9.07_{-3}	9.6_{+2}	8.9	9.35			0.74
4736	+290	+410	8.4	8.7_{-1}	8.8_0	8.4	8.75	0.5	−0.30	0.56
4826	+150	+230	9.0 (Holet)	9.4_{+1}	9.2_{-1}	7.2	9.3	0.9	−0.05	0.72
4884	+1500	+1600		13.1	13.?	t.f.	13.05			4.08
5005	+900	+1030	11.1	10.6_0	10.6_0	11.2	10.6			1.32
5055	+450	+590	9.6	9.75_{-3}	10.3_{+3}	9.0	10.05	1.1	+0.04	1.02
5194	+270	+450	7.4	8.45_{+1}	8.2_{-1}	7.7	8.3	0.5	−0.30	0.46
5195	+240	+410 +218	(Holet 8.6)	10.4_{-1}	10.6_{+1}	9.0	10.5			1.26
5236	+500	+470	10.4	8.77_0	8.8_0	9.0	8.8	0.9	−0.05	0.58
(M101) 5457	+200	+385	9.9	$\cancel{9.9}_{-3}$	$\cancel{10.5}_{+3}$	11.3	10.2	0.45	−0.35	1.15
5866	+650	+865	11.7	11.0_{-2}	11.3_{+1}	10.2	11.15			1.70
6822	−130	+35	9.0	11.2_{-1}	$11.4??_{+1}$	n.s.	11.3	0.214	−0.67	1.83
7331	+500	+685	10.4	10.05_{-1}	10.2_{+1}	8.7	10.1	1.1	+0.04	1.05
7619	+3780	+3910	—	14.8_{+2}	14.4_{-2}	12.8	14.6			8.32
Coma Virgo Nebulae				H.A.	S.F.M	M.M	Mean SFM+MM			
4382	+500	+570	10.0	10.9	9.8	9.65	9.7	2.0	(+0.30)	0.91
4472	+850	+870	8.8	10.2	9.4	8.75	9.1	2.0	(+0.30)	0.76
4486	+800	+835	9.7	10.5	9.2	9.1	9.15	2.0	(+0.30)	0.69
4526	+580	+600	11.1	10.9	10.3	10.35	10.3	[2.0	+0.30]	1.15
4649	+1090	+1130	9.5	10.5	9.8	9.7	9.75	2.0	(+0.30)	0.91

omitting Coma Virgo Syst. Dev.

			SEM	MLM
Σ	−40 −32	−19		
Σ	+20	+34 +41		
42	−20 −32	+15 +26	−0.05	+0.04
42	±60 ±78	±53 ±67	±0.14	±0.13

Both of course ±0.13

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Brightest Nebulae without Radial Velocities

N.G.C.	Mean SFM	Mean MLM	SFM + MLM	Residuals SFM	Residuals MLM
55	8.6	9.2	8.9	+3	-3
210	12.5⁻	12.5	12.5⁻	0	0
246	12.5⁻	12.6	12.6	+1	0
253	9.3	10.0	9.6	+3	-4
1097	11.1	11.4	11.2	+1	-2
1300	12.3	12.5⁻	12.4	+1	-1
1316	9.1	9.4	9.2	+1	-2
1566	10.1	10.4	10.2	+1	-2
2403	10.6	11.0	10.8	+2	-2
2903	9.8	10.0	9.9	+1	-1
3310	10.7	11.1	10.9	+2	-2
3607	11.3	11.2	11.2	-1	0
3941	11.8	11.7	11.8	0	-1
4125	11.5⁻	11.4	11.4	-1	0
4251	12.0	12.2	12.1	+1	-1
4303	9.6	9.5⁻	9.6	0	+1
4414	11.0	11.5⁻	11.2	+2	-3
4485⁻	11.5⁻	11.9	11.7	+2	-2
4490	10.5⁻	10.9	10.7	+2	-2
4527	11.4	11.8	11.6	+2	-2
4576	11.3	11.5⁻	11.4	+1	-1
4605⁻	11.0	11.2	11.1	+1	-1
4631	10.4	10.8	10.6	+2	-2
4697	11.1	11.3	11.2	+1	-1
4699	10.9	11.1	11.0	+1 +2	-1
4720⁻	11.1	12.0	11.6	+5⁻	-4
5128	7.7:	9.2	8.4:	+7	-8
5322	11.2	11.7	11.4	+2	-3
5746	12.0	12.0	12.0	0	0
6503	11.6	11.8	11.7	+1	-1
7217	11.0	11.7	11.4	+4	-3

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Krayo 7619

Object	MC19554 + MC20087 S.F.M.	MC19554 + MC20087 M.L.M.	MC19554 + MC20087 Mean	Residuals S.F.M.	Residuals M.L.M.	AC	AM M.L.M. & S.F.M. Mean	AX	AY
M.7499	15.4	15.5	15.45	0	-1				
7501	15.4	15.9	15.65	+2	-3				
7503	15.5	——	15.5:	(0)	——				
7528	15.4	15.9	15.65	+2	-3				
7529	15.5	16.2	15.85	+3	-4				
7557	15.4	16.4	15.9	+5	-5				
7562	13.6	14.0	13.8	+2	-2				
7564	15.4	15.7	15.55	+2	-1				
7575	14.6	15.6	15.1	+5	-5				
7577	15.1	16.1	15.6	+5	-5				
7583	15.3	16.4	15.85	+5	-6				
7584	15.4	16.0	15.7	+3	-3				
7586	15.4	16.4	15.9	+5	-5				
7587	15.4	16.1	15.75	+4	-3				
7591	15.3	16.0	15.65	+3	-4				
7594	15.4	16.0	15.7	+3	-3				
7595	15.2	15.8	15.5	+3	-3				
7601	15.4	16.2	15.8	+4	-4				
7608	15.6	16.6	16.1	+5	-5				
7619	14.7	14.7	14.7	0	0				
7626	14.1	14.0	14.05	-1	0				

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Magnitudes of Bright Nebulae (Holetschek)

Object	Radec	Mean Pg. Mag.	Pg. residuals	Visual Mag.	Color Index	Classification S.F.M.	Classification Hardcastle	Diameter
N								

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1930phae.proj.2340m

Object	Radec	Mean Pg. Mag	Pg. residuals	(Hoketaheki) Visual Mag.	Color Index	Classification S.F.M. Hardcastle	Diameter
N							

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Magnitudes of Bright Nebulae

Object	Radec	Mean Pg. Mag.	Pg. Residuals	(Holetchek) Visual Mag.	Color Index	Classification S.F.M.	Classification Hardcastle	Diameter
N								

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 Nebulae with tremendous velocities

AY 1337

N.G.C.	Seq. I	Seq. II	Seq. III	Mean	Mean MLM	Mean MM+SM	Radial Velocities
4853	13.5	13.3	13.7	13.5	13.2	13.4	7300
4860	13.8	13.5	13.8	13.7	13.4	13.6	7800
4865	13.3	13.1	13.4	13.3	13.2	13.2	4900

Coma Virgo Nebulae with Radial Velocities

	SFM	MLM	SFM & MLM	Residuals SFM	Residuals MLM
4382	10.9	9.6	10.2	-7	+6
4472	10.2	8.8	9.5	-7	+7
4486	10.5	9.1	9.8		
4526	10.9	10.4	10.6		
4649	10.5	9.7	10.1		
4382	9.8	9.6	9.7	-1	+1
4472	9.4	8.8	9.1	-3	+3
4486	9.8	9.1	9.4	-4	+3
4526	10.3	10.4	10.4	+1	0
4649	9.2	9.7	9.4	+2	-3

No	Seq. I	Seq. II	Seq. III	Mean	Mean MM	Mean MM+SFM
N 4853	13.5	13.3	13.7	13.5	13.2	13.35
4860	13.8	13.5	13.8	13.67	13.4	13.56
4865	13.3	13.1	13.4	13.3	13.2	13.25

AY 1337

Sp. { C.C. 13 a +24
K.S. 32

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1930phae.proj.2340M

Nebulae seen by Hardcastle but not mentioned elsewhere

N.G.C.	S.F.M.	M.L.M.	Mean	Residuals S.F.M	Residuals M.L.M.
1350	11.4	11.1	11.2	+2	-1
1353	12.9	13.0	13.0	-1	0
1360	9.7	10.2	10.0	-3	+2
1365	10.3	10.8	10.6	-3	+2
1385	11.2	11.9	11.6	-4	+3
1398	10.9	10.9	10.9	0	0
1406	12.1	12.3	12.2	-1	+1
1425	11.7	11.6	11.6	+1	0
1428	11.8	11.8	11.8	0	0
1518	~~11.4~~ 12.3	12.8	12.6	-1	+2
1531	12.6	12.9	12.8	-2	+1
1532	10.3	11.0	10.6	-3	+4
2442	10.2	10.8	10.5	-3	+3
2784	~~10.0~~ 11.3	11.2	11.2	+1	0
2830	~~10.6~~ 11.4	12.0	11.7	-3	+3
2997	10.2	11.6	10.9	-7	+7
3054	11.7	12.2	12.0	-3	+2
3109	~~10.6~~ 11.3	11.9	11.6	-3	+3
3175	11.7	12.1	11.9	-2	+2
3223	11.6	12.0	11.8	-2	+2
3281	11.9	12.4	12.2	-3	+2
3309	11.7	12.0	11.8	-1	+2
3347	11.6	12.0	11.8	-2	+2
3354	11.8	12.2	12.0	-2	+2
3621	9.3	10.2	9.8	-5	+4
3673	11.6	12.0	11.8	-2	+2
6300	11.1	11.4	11.2	-1	+2
6707	11.8	12.0	11.9	-1	+1
6744	~~10.8~~ 10.4	11.3	10.8	-4	+5

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1930phae.proj.234mm

N.G.C.	S.F.M.	M.L.M	Mean	Residuals S.F.M.	Residuals M.L.M
6769	11.7	11.8	11.8	-1	0
6887	11.5	12.2	11.8	-3	+4
6943	11.0	11.7	11.4	-4	+3
7059	11.8	12.4	12.1	-3	+3
7064	12.1	12.2	12.2	-1	0
7083	10.8	11.7	11.2	-4	+5
7090	11.3	11.5	11.4	-1	+1
7125	11.5	12.3	11.9	-4	+4
7141	~~10.8~~ 12.0	12.0	12.0	0	0
7179	~~11.4~~ 11.7	12.4	12.0	-3	+4
7410	~~9.6~~ 11.5	12.0	11.8	-3	+2
7412	~~10.5~~ 11.4	12.4	11.9	-5	+5
7424	~~11.2~~ 11.6	12.6	12.1	-5	+5
7456	~~11.0~~ 12.0	12.4	12.2	-2	+2
7462	11.4	12.0	11.7	-3	+3
7496	~~11.0~~ 12.0	12.4	12.2	-2	+2
7031	11.1	11.9	11.5	-4	+4
7032	~~10.0~~ 11.1	11.6	11.4	-3	+2
7082	~~10.9~~ 11.4	11.9	11.6	-2	+3
7099	~~10.6~~ 11.6	12.2	11.9	-3	+3
131	12.8	13.0	12.9	-1	+1
134	10.8	11.4	11.1	-3	+3
150	~~10.7~~ 12.0	12.4	12.2	-2	+2
289	~~11.2~~ 11.6	11.8	11.7	-1	+1
337	11.4	12.0	11.7	-3	+3
578	10.8	11.6	11.2	-4	+4
185	~~10.3~~ 11.4	12.0	11.7	-3	+3
406	12.5	13.1	12.8	-3	+3
520	12.3	12.3	12.3	0	0
625	11.7	12.0	11.8	-1	+2

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1936phac.proj.22.jpg

N.G.C.	SFM	MLM	Mean	Residuals SFM	Residuals MLM
986	11.5	11.8	11.6	-1	+2
1249	11.6	12.0	11.8	-2	+2
1313	9.0	10.0	9.5	-5	+5
1511	11.0	11.2	11.1	-1	+1
1515	11.3	12.2	11.8	-5	+4
1535	~~9.3~~ 10.2	10.8	10.5	-3	+3
1559	9.6	10.0	9.8	-2	+2
1617	10.9	11.8	11.4	-5	+4
1672	10.3	10.8	10.6	-3	+2
1733	10.8	11.8	11.3	-5	+5
1948	11.7	12.3	12.0	-3	+3
1510	11.3	12.0	11.6	-3	+4
1527	11.5	12.2	11.8	-3	+4
1792	9.0	9.0	9.0	0	0
1808	9.2	10.0	9.6	-4	+4
2613	10.5	10.6	10.6	-1	0
4038	~~10.6~~ 11.6	12.0	11.8	-2	+2
3705	11.6	12.3	12.0	-4	+3
4064	10.6	10.9	10.8	-2	+1
4312	10.6	11.2	10.9	-3	+3
4350	10.7	11.6	11.2	-5	+4
4419	~~9.6~~ 9.8	10.4	10.1	-3	+3
4567	10.6	11.4	11.0	-4	+4
4568	11.1	11.6	11.4	-3	+2
3877	~~11.7~~ 12.2	12.9	12.6	-4	+3
4384	12.7	13.2	13.0	-3	+2
3976	12.0	13.0	12.5	-5	+5
4134	13.5	13.5	13.5	0	0
4945	11.7	12.0	11.8	-1	+2
4565	11.5	11.7	11.6	-1	+1

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N.G.C.	SFM	MLM	Mean	Residuals SFM	Residuals MLM
5102	11.2	11.4	11.3	-1	+1
5253	10.4	11.1	10.8	-4	+3
5507	12.5	13.0	12.8	-3	+2
5566	13.0	13.2	13.1	-1	+1
6015	~~10.7~~ 11.3	12.3	11.8	-5	+5
6907	11.7	12.8	12.2	-5	+6
6925	11.7	12.5	12.1	-4	+4
7038	12.2	13.0	12.6	-4	+4
7107	13.3	13.5	13.4	-1	+1
6872	11.7	11.9	11.8	-1	+1
7098	12.0	12.0	12.0	0	0
7361	~~11.7~~ 13.1	13.4	13.2	-1	+2
7793	~~7.2~~ 9.4	10.2	9.8	-4	+4
2207	11.5	12.0	11.8	-3	+2
5483	~~12.5~~ 11.6	~~11.6~~ 12.5	12.0	-4	+5
5927	~~9.4~~ 9.2	~~9.2~~ 9.6	9.4	-2	+2

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Schilt Photometer

No. (AX638) – p. 45	1st	2nd	Mean	Mags.
11.1	12.58	12.80		
10.4	10.90	11.88		
10.0	9.70	10.18		
11.5	12.87	12.93		
11.2	13.20	13.10		
10.8	11.80	12.02		
N.5203	11.33	11.69		
N.5102	9.67	9.22		
9.6				
8.6.				
AX 641 ✓				
11.9	18.57	18.50	18.50	
12.0	17.60	17.50	17.55	
12.3	17.67	17.70	17.68	
12.8	18.63	18.60	18.62	
13.0	16.98	16.98	16.98	
N6925	18.59	18.60	18.60.	
6907	17.58	17.53	17.56	
AX 404 ✓				
9.9.	4.61	4.62	4.62	
10.0	4.14	4.19	4.16	
10.5	4.48	4.50	4.49	
11.2	4.89	4.90	4.90	
11.8	4.79	4.79	4.79	
12.2	4.86	4.82	4.84	
N185	5.08	5.10 (mb.?)	5.09	
278	4.78	4.78	4.78	
12.5	5.23	5.22	5.22	
13.0	3.52	5.50	5.51	

No.	1st	2nd	Mean	Mags.
AX675 ✓				
9.8	9.2	9.2	9.2	
10.6	10.00	9.93	9.96	
11.0	10.79	10.77	10.78	
11.4	11.10	11.10	11.10	
11.7	11.60	11.58	11.59	
N4856	10.50	10.43	10.46	
AM16255 ✓				
9.8	10.22	10.20	10.21	
10.6	12.00	12.00	12.00	
11.0	11.89	11.90	11.90	
11.4	11.98	12.01	12.00	
11.7	12.26	12.26	12.26	
N4856	11.90	11.90	11.90	
AC27316 ✓				
9.8	6.12	6.05	6.08	
10.6	6.72	6.93	6.82	
11.0	6.93	7.01	6.97	
11.4	7.09	7.17	7.13	
11.7	7.40	7.31	7.35	
N4856	7.05	6.58	6.59	

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see page 36 for HX 1166, plate on same nebular

HX 913 ✓

No.	1st	2nd	Mean	Mags.
7.8	5.25	5.10	5.17	
8.0	5.53	5.68	5.60	
9.0	7.30	7.38	7.34	
9.5	7.72	7.69	7.70	
9.9	8.99	8.92	8.95	
11.0	9.10	8.98	9.04	
11.1	9.99	9.98	9.98	
11.6	9.12	9.12	9.12	
11.8	stars too close			
12.0	10.38	10.29	10.33	
12.9	11.70	11.70	11.70	
13.6	11.22	11.22	11.22	
N 7410	9.53	9.50	9.52	
7412	9.60	9.62	9.61	
7424	9.99	9.94	9.96	
7456	10.60	10.60	10.60	
7462	9.30	9.22	9.26	
7496	9.82	9.83	9.82	
7531	10.73	10.78	10.76	
7552	9.30	9.30	9.30	
7582	9.65	9.71	9.68	
7599	9.52	9.52	9.52	

HM 16390 ✓

No.	1st	2nd	Mean	Mags.
	9.40	9.40	9.40	
	9.88	9.85	9.86	
	11.10	11.10	11.10	
	11.37	11.37	11.37	
	12.10	12.22	12.16	
	12.23	12.23	12.23	
	12.78	12.78	12.78	
	13.11	13.10	13.10	
	stars too close			
	t.f.			
	"			
	"			
	12.48	12.50	12.49	
	12.80	12.78	12.79	
	too faint			
	too ft.			
	"	"		
	12.50	12.50	12.50	
	13.12	13.17	13.14	
	12.39	12.31	12.35	
	12.73	12.64	12.68	
	12.91	12.93	12.92	

HX 975 ✓ - p. 45

10.4	4.50	4.50	4.50
10.9	4.70	4.70	4.70
11.6	4.68	4.67	4.68
11.8	4.83	4.91	4.87
12.2	4.61	4.61	4.61
N 4945	4.42	4.41	4.42

HX 1163 ✓

9.9	3.82	3.86	3.84
10.0	4.30	4.29	4.30
10.5	stars too close		
11.2	4.49	4.49	4.49
11.8	4.45	4.42	4.44
12.2	4.60	4.59	4.60
N 185	4.10	4.09	4.10

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AX647 ✓

No.	1st	2nd	Mean	Mag.
I 9.4	12.10	12.20	12.15	
10.1	13.05	12.88	12.96	
10.2	13.01	13.00	13.00	
10.8	14.07	14.00	14.04	
11.6	14.80	14.73	14.76	
N7098	15.67	15.58	15.62	
	{11.59	{11.20		
II 9.5	{11.49	{11.88	11.54	
10.0	10.98	10.99	10.98	
10.1	11.90	11.90	11.90	
10.2	11.32	{11.30 / 11.25	11.27	
11.0	13.63	{13.60 / 13.40	13.54	
11.4	14.61	14.62	14.62	
11.7	15.48	{15.38 / 15.39	15.42	
11.8	14.88	14.82	14.85	
12.1	16.40	16.38	16.39	
12.6	too faint			
N6872	14.61	14.55	14.58	

AX803 ✓

11.8	14.82	14.84	14.83
12.1	15.42	15.42	15.42
12.3	15.15	15.01	15.08
12.7	14.35	14.22	14.28
N406	16.23	16.22	16.22

sequence goes one fainter

AX862 ✓

No.	1st	2nd	Mean	Mag.
F 9.9	8.23	{7.65 / 7.40}	7.73	
10.2	8.22	8.23	8.22	
11.2	9.33	9.39	9.36	
11.7	8.73	8.70	8.72	
11.9	9.33	9.50	9.41	
12.0	stars too close			
N6300	8.33	8.28	8.30	
		{9.29		
V 9.7	9.02	{9.22	9.17	
10.2	9.08	9.02	9.03	
10.8	9.08	9.08	9.08	
11.0	10.10	10.11	10.10	
		{10.89		
11.5	10.91	{10.82	10.87	
11.6	9.82	9.80	9.81	
11.9	10.40	10.43	10.42	
12.2	10.90	10.90	10.90	
12.6	11.01	11.00	11.00	
N6707	10.30	10.33	10.32	
	{8.25	{8.34		
6744	{8.60	{8.38	8.39	
		{10.63		
6769	10.63	{10.73	10.66	

Measured a 2nd time on AM 16393 (see next page)

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AM 16393 ✓

No.	1st	2nd	Mean	Mags.	No.	1st	2nd	Mean	Mags.
9.9	16.83	16.82	16.82						
10.2	17.19	17.08	17.14						
11.2	stars two close								
11.7	17.89	17.91	17.90						
11.9	18.28	18.29	18.28						
12.0	stars two close								
N 6300	18.23	18.24	18.24						
9.7	17.31	17.30	17.30						
10.2	16.97	16.93	16.95						
10.8	17.00	16.99	17.00						
11.0	18.49	18.52	18.50						
11.5	18.85	18.80	18.82						
11.6	18.10	18.10	18.10						
11.9	18.49	18.49	18.49						
12.2	19.23	19.22	19.22						
12.6	ink								
N 6744	16.91	16.88	16.90						
6707	too faint								
6769	too faint								

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AX910

	No.	1st	2nd	Mean	Mags
I	9.5	8.48	8.49	8.48	
	9.9	10.58	{10.60 / 11.20}	10.79	
	10.8	12.62	12.65	12.64	
	11.2	14.10	14.10	14.10	
	11.6	{14.80 / 15.00}	{14.86 / 15.20}	14.96	
	11.7	16.07	16.17	16.12	
	12.1	16.49	16.50	16.50	
	12.5	18.32	18.39	18.35	
N	1350	14.56	14.60	14.58	
	1406	17.08	17.32	17.20	
	1429	16.18	{16.20 / 16.29}	16.22	
II					
	A.7	10.12	{9.69 / 9.70}	9.83	
	9.3	{10.77 / 10.70}	{10.82 / 10.90}	10.79	
	9.5	10.18	10.20	10.19	
	10.1	12.63	{12.50 / 12.50}	12.55	
	10.8	16.41	{16.30 / 16.22}	16.31	
	11.1	13.3	13.3	13.30	
	11.5	13.98	13.90	13.94	
	11.9	15.40	{15.30 / 15.30}	15.33	
N	1360	12.50	{12.40 / 12.40}	12.43	
	1428	16.08	16.08	16.08	
	N31	1650	16.50	16.50	
	1532	14.65	{14.40 / 14.40}	14.48	
III					
	10.7	15.22	15.17	15.20	
	11.3	16.13	16.10	16.12	
	11.7	16.86	16.87	16.86	
	12.4	17.14	17.12	17.13	

AX1979

No.	1st	2nd	Mean	Mags.
	9.71	9.78	9.74	
	11.00	10.95	10.98	
	12.10	{12.07 / 12.01}	12.06	
	13.12	13.10	13.11	
	15.47	15.48	15.48	
	14.52	{14.50 / 14.60}	14.54	
	15.12	15.17	15.14	
	16.21	16.23	16.22	
	12.98	12.98	12.98	
	14.60	14.60	14.60	
	13.62	13.57	13.60	
	11.10	11.10	11.10	
	11.60	11.58	11.59	
	11.41	11.42	11.42	
	12.31	12.30	12.30	
	13.04	13.04	13.40	
	13.12	{13.07 / 13.02}	13.07	
	13.90	13.92	13.91	
	15.40	15.38	15.39	
	10.88	10.88	10.88	
	14.00	14.01	14.00	
	13.93	{14.02 / 13.98}	13.95	
	13.08	13.05	13.06	
	13.77	13.80	13.78	
	14.30	14.34	14.32	
	14.27	14.29	14.28	
	15.14	15.13	15.14	

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AX910

No.	1st	2nd	Mean	Mags.
12.7	17.76	17.75	17.76	
N1360	11.93	12.00	11.96	
1285	14.95	17.96 14.85	14.92	
1353	17.35	17.32 17.28	17.31	
1398	13.37	13.36 13.51	13.44	
1518	15.62	15.51 15.46	15.53	

AX952 ✓

11.4	11.91 11.90	11.83 11.80	11.86	
12.6	13.12	13.12	13.12	
12.5	13.70	13.77	13.76	
11.2	11.30	11.28 11.23	11.27	
N520	12.47	12.49	12.48	

AX1004 ✓

10.6	6.10	6.08	6.09	
11.0	6.23	6.23	6.23	
11.6	6.68	6.65	6.66	
12.0	7.03	7.00	7.02	
12.7	7.05	7.05	7.05	
13.2	7.37	7.33 7.32	7.34	
N3877	6.57	6.60	6.58	
4389	6.89	6.87	6.88	

No.	1st	2nd	Mean	Mags.
	15.49	15.49	15.49	
	10.50	10.53	10.52	
	12.88	12.91	12.90	
	14.85	14.85	14.85	
	11.99	11.99	11.99	
	14.60	14.70	14.65	

AX2093

8.0	
8.5	
8.8	
9.6	
10.2	
10.5	
N2613	

Stars in plate much too close

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1930phae.proj.2340M

AX 1174 - p. 46

No.	1st	2nd	Mean	Map.
I				
10.2	ink			
10.8	10.12	10.13	10.12	
11.0	A.33	A.39	A.36	
11.4	9.47	9.47	9.49	
11.7	9.72	9.73	9.72	
N6943	9.72	9.70	9.71	
II				
10.2	A.60	A.30 A.49	A.46	
10.6	9.28	9.23	9.26	
11.3	9.52	9.90 9.89	9.77	
11.5	9.46	9.48	9.48	
N7059	A.25	A.20	A.22	
7083	9.17	9.13	9.15	
7125	10.31	10.30	10.30	
7179	11.09	11.10	11.10	
II				
10.7	9.01	9.04 8.95	9.00	
11.1	A.01	A.02	A.02	
11.6	9.29	9.29	9.29	
12.0	ink			
12.1	9.24 9.57	9.20 9.41	9.36	
N 7064	A.91	A.92	A.92	
7090	6.41	6.47 6.52	6.47	
7141	6.90	6.79 6.73	6.81	

AX 627 - p. 49

No.	1st	2nd	Mean	Map.
	A.30	A.29	A.30	
	9.93	9.99	9.96	
	A.91	A.90	A.90	
	9.90	9.70 9.72	9.77	
	9.68	9.69	9.68	
	10.03	10.04	10.04	
	9.10	9.00 9.00	9.03	
	9.54	9.50	9.52	
	9.80	9.73 9.72	9.75	
	10.07	10.07	10.07	
	9.50	9.50 9.42	9.47	
	9.50	9.50	9.50	
	10.32	10.35	10.34	
	10.91	10.88	10.90	
	8.70	A.70	A.70	
	9.15	9.00 9.00	9.05	
	stars too close			
	9.61	9.55	9.58	
	9.40	9.39	9.40	
	too near star			
	9.09	9.20 9.29	9.19	
	10.30	10.30	10.30	

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1930phae.proj.234MM

See page 30 for AX913 & AM 16390, plates on the same nebulae

AX1228 - 46 ✓

No.	1st	2nd	Mean	Mags.
10.3	9.37	9.40	9.38	
10.6	9.08	9.52	9.30	
10.7	9.80	9.80	9.80	
11.3	9.95	9.95	9.95	
12.1	10.12	10.10	10.11	
12.4	10.73, 10.6,	10.61	10.65	
12.7	11.09	11.10	11.10	
19.2	11.27	{11.10 / 11.10}	11.16	
N337	9.10	9.09	9.10	
578	9.63	9.69	9.66	

AX1326 - p. 46 - RH plates used

7.5	2.10	2.10	2.10	
7.7	2.07	2.09	2.08	
8.4	2.10	2.13	2.12	
9.3	2.13	2.13	2.13	
10.1	2.19	2.18	2.18	
10.6	2.20	2.20	2.20	
10.9	2.30	2.30	2.30	
N4312	2.03	2.02	2.02	
4350	2.09	2.09	2.09	
N4419	1.98	1.98	1.98	
N 4568	2.00	1.99	2.00	
N 4567	1.94	1.97	1.96	

AX1166 - p. 45 ✓

No.	1st	2nd	Mean	Mags.
7.8	4.73	4.70	4.72	
8.0	4.90	4.93	4.92	
9.0	6.91	6.97	6.94	
9.5	7.03	{7.12 / 7.34}	7.16	
9.9	8.90	8.88	8.89	
11.0	9.38	{9.06 / 9.07}	9.17	
11.1	10.96	11.00	10.98	
11.6	9.49	9.49	9.49	
11.8	stars too close			
12.0	10.49	10.48	10.48	
12.9	10.68	10.68	10.68	
13.6	11.18	11.17	11.18	
N7410	8.62	8.63	8.62	
7412	9.50	9.49	9.50	
7424	8.93	{8.93 / 9.00}	8.96	
7456	10.28	10.28	10.28	
7462	9.88	9.89	9.88	
7496	11.30	11.30	11.30	
7531	9.99	{10.03 / 10.04}	10.02	
7552	8.21	{8.22 / 8.37}	8.27	
7582	9.00	{8.92 / 8.92}	8.94	
7599	9.03	9.05	9.09	

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1930phae.proj.2340M

AC 7443 ✓ (AY 1326 on p. 36 covers same region)

No.	1st	2nd	Mean	Map.
7.5	6.12	{6.13 / 6.22}	6.16	
7.7	6.30	{6.38 / 6.38}	6.35	
8.4	6.74	6.71	6.72	
9.3	6.84	6.80	6.82	
10.1	7.21	7.22	7.22	
10.6	7.28	7.28	7.28	
10.9	7.39	7.40	7.40	
N 4312	6.70	6.78	7.74	
4350	6.60	6.53	6.56	
N 4419	6.71	6.69	6.70	
N 4568	6.50	{6.95 / 6.94}	6.80	
N 4567	6.52	6.52	6.52	

AY 1336 ✓

No.	1st	2nd	Mean	Map.
10.9	3.07	3.07	3.07	
11.1	3.07	3.07	3.07	
11.9	3.22	3.22	3.22	
12.4	3.18	3.18	3.18	
12.8	3.21	3.22	3.22	
13.4	3.21	3.20	3.20	
13.6	3.26	3.22	3.24	
N 4134	3.11	3.12	3.12	

AY 1413 ✓

No.	1st	2nd	Mean	Map.
10.2	3.49	3.50	3.50	
10.4	2.84	2.80	2.82	
10.5	2.98	2.93	2.96	
11.0	3.12	3.12	3.12	
11.1	3.08	3.08	3.08	
11.5	3.28	3.28	3.28	
11.6	3.20	3.22	3.21	
N 6015	3.19	3.18	3.18	

AX 1979 ✓

No.	1st	2nd	Mean	Map.
9.0	1.38	1.41	1.40	
10.1	2.22	2.32	2.27	
10.4	2.82	2.89	2.86	
11.0	3.22	{3.09 / 3.10}	3.17	
11.4	4.70	{4.42 / 4.42}	4.57	
12.0	5.69	5.60	5.64	
N 2207	5.10	5.11	5.10	

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1930phae.proj.2348M

21+0 -p.48

No.	1st	2nd	Mean	Mags.
A.7	2.02	2.05	2.04	
9.5	2.91	3.00	3.00	
10.3	4.42	4.44	4.43	
10.6	4.72	4.72	4.72	
11.0	4.88	5.09 / 5.11	5.03	
11.4	6.00	6.00	6.00	
N1313	2.58	2.60	2.59	
1511	5.71	5.69	5.70	
1539	3.01	3.08	3.04	
1672	3.36	3.38	3.37	
9.2	stars too close			
9.4	3.78	3.80	3.79	
10.2	stars too close			
10.7	4.72	4.69 / 4.65	4.69	
11.0	5.80	5.88	5.84	
11.1	5.71	5.80	5.75	
11.5	6.52	6.51	6.52	
11.9	6.52	6.52	6.52	
N1249	6.75	6.75	6.70	
1575	6.49	6.43	6.46	
1553	2.60	2.49 / 2.41	2.50	
1617	4.49	4.49	4.49	

4X 2086 -p.50

No.	1st	2nd	Mean	Mags.
5.30	4.71 / 4.69		4.90	
5.55	5.55		5.55	
6.44	6.42		6.43	
7.00	7.00		7.00	
7.69	7.69		7.69	
7.05	7.00		7.02	
3.48	3.50 / 3.34		3.44	
6.79	6.81		6.80	
4.71	4.64 / 4.60		4.65	
4.10	4.04		4.07	
stars too close				
5.92	5.92		5.92	
stars too close				
6.80	6.88 / 6.91		6.86	
6.94	6.95		6.94	
7.10	7.11 / 7.00		7.07	
8.10	8.11		8.10	
7.90	7.90		7.90	
7.59	7.60		7.60	
7.66	7.69		7.68	
4.10	4.10		4.10	
5.60	5.65		5.62	

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AX1403

No.	1st	2nd	Mean	Mag.
10.4	8.12	8.15	8.14	
10.7	8.64	8.60	8.62	
11.3	{9.12 {9.27	{9.14 {9.19	9.18	
11.5	9.65	9.60	9.62	
11.6	9.82	9.81	9.82	
11.8	9.21	9.20	9.20	
N625	9.59	9.59	9.59	

AX1404

11.1	10.80	10.72	10.76	
11.3	9.72	9.72	9.72	
11.4	11.27	11.25	11.26	
11.8	11.52	11.54	11.53	
12.2	7.58	7.58	7.58	
12.5	12.02	12.09	12.06	
N986	10.50	10.48	10.49	

AM1614S plate p.10 -p.52

11.1	10.22	10.22	10.22	
11.3	10.33	10.35	10.34	
11.4	10.61	10.61	10.61	
11.8	10.67	10.67	10.67	
12.2	Two faint			
12.5	Two faint			
N986	10.20	10.20	10.20	

AX1416 -p.47

No.	1st	2nd	Mean	Mag.
10.8				
11.2	2.49	2.49		
11.4	2.51	2.51		
12.1	2.			plate too dense
12.5	2.52	2.52		
N3705				
4064	---- no other plate covers			

AX1605

10.7	8.92	{8.82 {8.83	8.86	
11.1	8.87	8.90	8.88	
11.7	9.72	9.72	9.72	
11.9	9.79	9.77	9.78	
12.5	11.00	11.02	11.01	
12.9	11.38	11.38	11.38	
N5507	10.08	10.09	10.08	
5566	8.99	8.99	8.99	

AX1864 -p.46

10.3	6.90	6.90	6.90
10.4	6.73	6.71	6.72
10.6	6.49	6.50	6.50
11.5	7.53	7.50	7.50
11.6	7.29	7.27	7.28
11.8	7.82	7.82	7.82
11.9	7.09	7.10	7.10
12.3	7.70	7.70	7.70
12.7	8.45	8.45	8.45
N1433	5.90	5.88	5.89
1448	7.10	7.10	7.10
1510	6.80	6.80	6.80
1529	7.08	7.09	

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AM 16370

AM 1956 - p. 47

No.	1st	2nd	Mean	Mags.
7.1	1.00	1.02	1.01	
8.2	2.23	2.23	2.23	
8.6	4.02	{3.58 3.63}	3.743	
9.3	4.96	4.90	4.93	
10.1	6.67	6.69	6.68	
10.6	6.72	6.71	6.72	
11.0	7.12	7.12	7.12	
11.3	star too close			
11.5	6.89	6.90	6.90	
11.8	7.20	7.18	7.19	
12.1	9.04	9.01	9.02	
12.5	8.72	8.73	8.72	
12.7	9.61	{9.48 9.47}	9.52	
12.9	9.40	9.40	9.40	
N131	10.41	{10.52 10.55}	10.49	
134	6.20	6.20	6.20	
150	7.72	7.90	7.71	
289	6.73	{6.90 6.90}	6.84	

No.	1st	2nd	Mean	Mags.
	2.99	{2.39 2.35}	2.58	
	6.02	6.02	6.02	
	6.73	6.80	6.76	
	8.49	8.51	8.50	
	10.81	10.82	10.82	
	12.03	12.12	12.08	
	12.55	12.58	12.56	
	12.82	12.81	12.82	
	13.00	13.00	13.00	
	14.02	14.10	14.06	
	14.40	14.42	14.41	
	15.18	15.19	15.18	
	Too faint			
	Too faint			
	Too faint			
	"	Base with photometer		
	"	"	"	"
	"	"	"	"

Base line of 1956 and 2071 photometer

AX 2045 - p. 97

No.	1st	2nd	Mean	Mags.
11.8	6.21	6.21	6.21	
12.0	7.06	7.06	7.06	
12.5	7.11	7.11	7.11	
12.6	sink			
12.9	7.51	7.50	7.50	
13.2	7.20	7.28	7.26	
N7038	5.05	5.05	5.05	
7107	6.91	6.91	6.91	

AX 2071

No.	1st	2nd	Mean	Mags.
11.4	5.50	5.50	5.50	
11.6	5.95	5.93	5.94	
12.2	6.13	6.12	6.12	
12.3	6.20	6.21	6.20	
13.0	6.37	6.32	6.34	
13.4	6.38	6.40	6.39	
13.9	6.71	6.71	6.71	
N7361	6.38	6.34	6.36	

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AX2120 - p. 48

No.	1st	2nd	Mean	Mag.
8.9	0.40	0.40	0.40	
10.0	2.37	2.33	2.35	
10.3	3.87	3.82	3.84	
11.0	4.40	4.42 4.33	4.38	
N2442	~~4.43~~	~~4.40~~	~~4.42~~	

AX2163

7.2	0.90	0.93	0.92	
8.2	1.83	1.80	1.82	
8.8	2.60	2.69	2.64	
9.4	3.52	3.50	3.51	
10.0	3.60	3.60	3.60	
10.8	3.85	3.84	3.84	
N1792	2.61	2.60	2.60	
1808	3.10	3.12	3.11	

AM16159 - p. 48

7.2	5.70	5.72	5.71	
8.2	7.23	7.26	7.24	
8.8	8.20	8.21	8.20	
9.4	8.28	8.23	8.26	
10.0	8.68	8.71	8.70	
10.8	9.00	9.03	9.02	
N1792	9.42	9.42	9.42	
1808	9.42	9.47	9.46	

AX2224

No.	1st	2nd	Mean	Mags.
11.2	2.81	2.81	2.81	
11.9	stars too close			
12.6	3.95	3.94	3.94	
13.1	4.56	4.51	4.54	
N3976	3.61	3.61	3.61	

AX2244 - p. 51

8.2	1.79	1.70 1.69	1.73	
8.7	1.71 1.61	1.76 1.81	1.72	
9.1	1.23	1.10 1.10	1.14	
9.9	2.57	2.51	2.54	.64
10.5	2.58	2.58	2.58	
N5929	1.01	1.01	1.01	
10.8	4.11	4.18	4.14	
11.4	4.50	4.47	4.48	
11.8	4.70	4.69	4.70	
12.1	5.32	5.32	5.32	
12.4	5.04	5.02	5.03	
12.8	5.22	5.22	5.22	
N5483	4.87	4.92	4.90	

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1936phae.proj.234MM

AX 2139 - p. 49

No.	1st	2nd	Mean	Mag.	No.	1st	2nd	Mean	Mag.
9.3	2.90	2.83	2.86			5.73	5.77	5.75	
10.0	4.16	4.04 / 4.03	4.08			6.51	6.43	6.47	
10.6	4.81	4.78	4.80			6.59	6.60	6.58	
10.8	4.32	4.31	4.32			7.52	7.57	7.54	
11.3	4.57 / 4.77	4.60 / 4.50	4.61			7.30	7.28	7.29	
11.4	6.00	5.90 / 5.90	5.93			8.00	7.97	7.98	
11.9	5.49	5.50	5.50		D.E.	7.92	7.89	7.90	
N 2784	6.00	6.00	6.00	10.8	11.2	7.08	7.02	7.05	11.0
2835	7.38	7.41	7.40		11.7	9.02	9.09	9.05	- diffuse
2997	5.31	5.30 / 5.22	5.28	10.2	10.9	6.20	6.20	6.20	10.2
8.6	3.52	3.60	3.56			4.48	4.53	4.50	
9.1	3.80	3.78	3.79			4.72	4.70	4.71	
10.2	5.22	5.22	5.22			6.01	6.00	6.00	
11.1	6.40	6.41	6.40			6.00	6.00	6.00	
11.3	6.47	6.46	6.46			7.12	7.12	7.12	
11.5	6.67	6.58	6.62			7.37	7.33	7.35	
11.7	6.72	6.75	6.74			7.71	7.77	7.74	
12.2	7.32	7.30	7.31			8.30	8.30	8.30	
12.6	7.71	7.68 / 7.61	7.67			8.51	8.52	8.52	
N 3054	7.49	7.48	7.48	12.3	12.0	7.99	7.96	7.98	11.9
3109	7.73	7.71	7.72	12.5	11.6	8.51	8.49	8.50	12.45 long
3175	4.71	4.68	4.70	9.7 (10.8)	11.9	8.10	8.11	8.10	12.0
3223	5.98	6.00	5.99	10.8 (12.0)	11.8	7.30	7.39	7.34	11.28
3281	6.81	6.80	6.80	11.6 (12.8)	12.2	8.47	8.50	8.48	12.4

AX 1473 - p. 51

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AM16173

No.	1st	2nd	Mean	mag.
	4.15	4.19	4.17	
	4.67	4.68	4.68	
	5.05	5.06	5.06	
	4.98	4.98	4.98	
	5.03	5.02	5.02	
	5.18	5.19	5.18	
	5.02	5.07	5.04	
	4.78	4.78	4.78	
	4.82	4.81	4.82	
	too faint			
	3.82	3.81	3.82	
	4.72	4.76	4.74	
	4.14	4.10	4.12	
	ink			
	4.73	4.73	4.73	
	4.60	4.57	4.58	
	4.76	4.78	4.77	
	4.78	4.78	4.78	
	too faint			
	too faint			
	too faint			
	"	5.19		
	"			
	"			

a black dot to the East of the Planetoid

AX2274

No.	1st	2nd	Mean	mag.
	8.2	3.01	3.06	3.00
	9.2	4.50	4.47	4.48
	9.5	4.51	4.51	4.51
	9.9	4.47	4.43	4.45
	10.4	5.27	5.29	5.28
	10.9	5.12	5.30	5.21
	11.0	5.19	5.20	5.20
	11.5	ink		
	11.6	5.23	5.20	5.22
	12.0	5.53	5.50	5.52
	N3621	3.59	3.58	3.58
	3673	5.39	5.40	5.40
	AX2325 - p. 48			
	10.4	7.40	7.39	7.40
	11.0	7.90	7.88	7.89
	11.4	8.33	8.40	8.36
	11.8	8.56	8.52	8.54
	12.4	8.78	8.78	8.78
	N4038	6.70	6.68	6.69

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1930phae.proj.2340M

AX 2387 - ✓

No.	1st	2nd	Mean	Mag.	No.	1st	2nd	Mean	Mag.
8.6	3.63	3.57	3.60						
9.1	3.53	3.50	3.52						
10.2	4.39	4.39	4.39						
11.1	5.20, 5.09	5.10	5.13						
11.3	5.68	5.64	5.66						
11.5	4.92	4.89	4.90						
11.7	5.07	5.08	5.08						
12.2	5.53	5.52	5.52						
12.6	5.60	5.60	5.60						
N3309	5.29	5.29	5.29						
3347	5.41	5.41	5.41						
3354	5.30	5.30	5.30						

~~B 2344~~ sequence goes no fainter

7.1	0.71	0.70	0.71	
8.2	1.21	1.20	1.20	
8.6	0.70	0.70	0.70	
9.3	1.30	1.32	1.31	
10.1	2.35	2.37	2.24	
10.6	2.09	{2.12 / 2.20}	2.17	
11.0	3.40	3.50	3.45	
11.3	4.18	4.21	4.20	
11.5	4.38	4.20	4.29	
11.8	6.00	6.01	6.00	
12.1	6.60	6.60	6.60	
12.5	8.57	8.63	8.60	
12.7	9.25	9.20	9.22	
12.9	8.99	8.93	8.96	
13.4	6.98	{6.90 / 6.87}	6.92	
N7793	9.70	9.71	9.70	

Remeasured on p. 51

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1930phae.proj.2340M

Remeasurements – additional stars

AX638 – p.29

No.	1st	2nd	Mean	Map
8.6	10.19	10.15	10.17	
9.6	12.00	11.99	12.00	
10.0	13.91	13.90	13.90	
10.4	14.57	14.59	14.58	
10.8	14.72	14.69	14.70	
11.1	15.44	15.43	15.44	
11.2	15.46	15.47	15.46	
11.5	15.41	15.43	15.42	
N5253	14.16	14.18	14.17	
5102	11.10	11.10	11.10	

AX647

I (see p.21)

9.4				
10.1				
10.2				
10.8				
11.6				

N7531	10.60	10.60	10.60	
7552	9.13	9.00	9.06	
7582	elongated			
7599	9.80	9.78	9.79	

AX975 – p.30

No.	1st	2nd	Mean	Map
9.4	3.69	3.68	3.68	
9.8	3.70	3.70	3.70	
10.1	3.90	3.90	3.90	
10.4	3.91	3.88	3.90	
10.9	3.90	4.00	3.95	
11.6	3.98	4.00	3.99	
11.8	4.10	4.10	4.10	
12.2	4.03	4.00	4.02	
N4945	3.70	3.68	3.69	

AX1166 – p.36

7.8	5.60	5.57	5.58
8.0	6.07	6.10	6.08
9.0	7.68	7.87 / 7.92	7.82
9.5	~~8.89~~	8.10 / 8.10	8.10
9.9	9.97	9.93	9.95
11.0	9.93	10.00	9.96
11.1	11.70	11.71	11.70
11.6	10.81	10.80	10.80
11.8	10.92	10.91	10.92
12.0	11.73	11.77	11.75
12.9	11.09	11.08	11.08
13.6	11.69	11.70	11.70
14.1	12.30	12.30	12.30
N7410	9.42	9.43	9.42
7412	10.23	10.20	10.22
7424	9.59	9.58	9.58
7456	elongated		
7462	10.13	10.15	10.14
7496	9.50	9.51	9.50

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AX1174 - p.35 ✓

No	1st	2nd	mean	mags
7.3	6.18	6.17	6.18	
7.8	8.29	8.32	8.30	
8.7	7.21	7.25	7.23	
9.1	8.68	8.63	8.66	
9.3	9.17	9.11	9.14	
10.2	9.60	9.50	9.55	
10.6	10.28	{10.19 10.13	10.20	
11.3	10.28	10.29	10.28	
11.5	10.43	10.50	10.46	
N7064	two near star			
7090	6.98	6.98	6.98	
7141	11.23	11.15	11.19	
7059	8.20	8.20	8.20	
7083	7.69	7.70	7.70	
7125	10.82	10.87	10.84	
7178	11.48	11.42	11.45	
6943	9.39	9.41	9.40	

AX1264 - p.39 ✓

9.7	7.12	7.09	7.10	
10.3	8.72	8.70	8.71	
10.4	8.32	8.30	8.31	
10.6	8.48	8.48	8.48	
11.5	9.40	9.47	9.44	
11.6	8.90	8.88	8.89	
11.8	9.87	9.88	9.88	
11.9	9.41	9.37	9.39	
12.3	9.20	9.20	9.20	
12.7	10.22	10.20	10.21	
1433	7.53	7.49	7.51	
1498	elongated			
1510	8.49	8.49	8.49	

No.	1st	2nd	Mean	Mags.
N1527	8.90	8.91	8.90	

AX1228 - p.36 ✓

9.9	6.99	7.02	7.00	
10.3	8.87	8.92	8.90	
10.6	8.90	8.91	8.90	
10.7	8.78	8.82	8.80	
11.3	9.57	9.60	9.58	
12.1	9.51	9.58	9.54	
12.4	10.40	10.40	10.40	
12.7	10.99	10.99	10.99	
13.2	10.77	10.70	10.74	
N337	8.27	8.29	8.28	
572	9.21	9.18	9.20	

RH882 - p.36 ✓

7.5	5.11	5.18	5.14	
7.7	5.11	5.06	5.08	
8.4	5.89	5.90	5.90	
9.3	5.50	5.49	5.50	
10.1	6.40	6.49	6.44	
10.6	5.79	5.80	5.80	
10.9	6.41	6.40	6.40	
N4312	4.85	4.88	4.86	
4350	4.60	4.60	4.60	
N 4419	3.50	3.51	3.50	
N 4568	3.54	3.53	3.54	
N 4567	3.40	3.40	3.40	

opposites good seconds brighter

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AX1416 - p.39

No.	1st	2nd	Mean	Mags
10.8	3.41	3.44	3.42	
11.2	3.58	3.58	3.58	
11.4	3.63	3.61	3.62	
12.1	3.59	3.59	3.59	
12.5	3.60	3.61	3.60	
N3705	2.91	2.91	2.91	
4064	3.50	3.50	3.50	
RH 146				
10.8	12.70	12.70	12.70	
11.2	12.88	12.89	12.88	
11.4	13.05	13.08	13.06	
12.1	13.90	13.92	13.91	
12.5	13.21	13.28	13.24	
N3705	11.62	11.58	11.60	
4064	off plate			

AX2045 - p.40

10.4	5.63	5.59	5.61	
11.1	6.60	6.60	6.60	
11.5	7.41	7.42	7.42	
11.8	7.33	7.37	7.35	
12.0	8.40	8.35	8.38	
12.5	8.69	8.69	8.69	
12.6	stars too close together			
12.9	9.22	9.20	9.21	
13.2	9.30	9.22	9.26	
N7038	7.01	6.98	7.00	
7109	9.03	9.01	9.02	

AX1956 - p.40

No.	1st	2nd	Mean	Mags.
7.1	3.17	3.12	3.14	
8.2	4.84	4.88	4.86	
8.6	6.91	6.90	6.90	
9.3	7.83	7.87	7.85	
10.1	9.62	9.61	9.62	
10.6	9.90	9.97	9.94	
11.0	10.55	10.52	10.54	
11.3	10.29	10.27	10.28	
11.5	9.52	9.57	9.54	
11.8	10.48	10.42	10.45	
12.1	11.80	11.80	11.80	
12.5	11.12	11.12	11.12	
12.7	12.49	12.50	12.50	
12.9	12.20	12.27	12.23	
13.4	12.80	12.81	12.80	
N131	12.80	12.80	12.80	
134	elongated			
10.0	11.18	11.10	11.14	
289	9.60	9.58	9.54	

RH 146

8.6	11.70	11.70	11.70
9.2	12.28	12.29	12.28
9.9	12.88	12.81	12.84
10.8	13.26	13.22	13.24
11.2	13.51	13.52	13.52
11.2	13.50	13.48	13.49
11.4	13.70	13.60	13.65
12.1	14.20	14.20	14.20
12.5	14.20	14.20	14.20
N3705	12.35	12.20	12.28

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AX 2120 - p. 41

No.	1st	2nd	Mean	Mags
8.9	2.70	2.69		
10.0	4.22	4.23		
10.3	6.01	6.01		
11.0	6.72	6.79		
11.4	8.30	8.19		
11.6	7.88	7.80		
N2442	too diffuse			

AX 2190 - p. 38 - p. 50 ✓

9.2	stars too close			
9.4	6.80	6.79	6.80	
10.2	6.12	6.20	6.16	
10.7	7.19	7.20	7.20	
11.0	7.82	7.82	7.82	
11.1	7.82	7.76	7.79	
11.5	7.95	7.90	7.92	
11.9	6.09	6.00	6.04	
12.2	8.40	8.40	8.40	
12.8	8.40	8.41	8.40	
N1249	7.59	7.49	7.54	
1515	elongated			
1553	4.73	4.62	4.68	
1617	6.10	6.12	6.11	

AM 1615 9 - p. 41 ✓

No.	1st	2nd	Mean	Mags.
7.2	9.42	9.39	9.40	
8.2	11.02	11.10	11.06	
8.8	11.77	11.75	11.76	
9.4	11.99	12.00	12.00	
10.0	12.18	12.22	12.20	
10.8	12.39	12.40	12.40	
11.1	13.49	13.51	13.50	
11.8	12.10	12.09	12.10	
N1792	11.88	11.82	11.85	
188	elongated			

AX 2325 ✓ - p. 43

9.5	9.58	9.59	9.58	
9.6	9.93	9.87	9.90	
10.4	10.49	10.50 10.60	10.53	
11.0	11.01	10.99	11.00	
11.4	11.49	11.40	11.44	
11.8	11.58	11.57	11.58	
12.4	11.60	11.60	11.60	
N4038	9.88	9.80	9.84	

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AX2139 - p.42 ✓

II No.	1st	2nd	Mean	Mags.
9.3	5.55	5.60	5.58	
10.0	7.17	7.20	7.18	
10.6	7.31	7.32	7.32	
10.8	7.23	7.25	7.24	
11.3	7.79	7.81	7.80	
11.4	8.02	8.09	8.06	
11.9	8.10	8.12	8.11	
12.0	8.30	8.32	8.31	
12.3	9.43	9.40	9.42	
12.9	10.00	10.01	10.00	
N2784	8.60	8.60	8.60	
2835	9.10 8.99	8.98	9.02	
2997	7.29	7.20	7.24	
I				
8.6	7.08	7.13	7.10	
9.1	7.21	7.20	7.20	
10.2	8.52	8.51	8.52	
11.1	9.10	9.09	9.10	
11.3	9.30	9.34	9.32	
11.5	9.11	9.09	9.10	
11.7	8.80	8.81	8.80	
12.2	9,30	9.30	9.30	
12.6	9.70	9.68	9.69	
N3254	9.51	9.53	9.52	
3109	9.12	9.12	9.12	
3175	8.98	9.00	8.99	
3223	8.88	8.89	8.88	
3281	8.03	8.03	8.03	

~~AX1473 - p.42~~

No.	1st	2nd	Mean	Mags.

AX627 - p.35 ✓

II				
7.3	4.92	4.84	4.88	
7.8	6.07	6.01	6.04	
8.7	5.69	5.68 5.52	5.61	
9.1	7.51	7.57	7.54	
9.3	7.96	8.00	7.98	
10.2	8.71	8.60	8.66	
10.6	9.20	9.21	9.20	
11.1	8.62	8.67	8.64	
11.5	9.32	9.31	9.32	
12.1	10.11	10.10	10.10	
12.5	9.83	9.92	9.88	
12.6	10.03	10.01	10.02	
13.1	10.15	10.13	10.14	
N7059	9.10	8.90	8.95	
7083	9.06	9.03	9.04	
7125	9.70	9.70	9.70	
7179	9.73	9.69	9.71	

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AX 2140 - p. 48

	1st	2nd	Mean	Mags.
8.9	2.48	2.50	2.49	
9.2	stars too close			
9.4	4.32	4.32	4.32	
10.2	stars too close			
10.7	4.51	4.52	4.52	
11.0	5.30	5.24	5.27	
11.1	5.22	5.20	5.21	
11.5	6.20	6.12	6.16	
11.5				
11.9	7.49	7.50	7.50	
12.2	6.99	6.96	6.98	
12.8	7.02	7.02	7.02	
13.1	7.70	7.69	7.70	
N 1249	6.11	6.08	6.10	
1515	5.97	6.00	5.98	
1553	1.71	1.81	1.76	
1617	4.01	4.00	4.00	

sequence goes no brighter

AX 2086 - p. 38

No.	1st	2nd	Mean	Mags.
II				
8.9	4.58	4.63	4.60	
9.2	stars too close			
9.4	5.79	5.70	5.74	
10.2	stars too close			
10.7	6.30	6.28	6.29	
11.0	6.62	6.62	6.62	
11.1	6.88	6.85	6.86	
11.5	7.42	7.41	7.42	
11.5	7.78	7.77	7.78	
11.9	7.68	7.67	7.68	
12.2				
12.8				
13.1				
N 1249	7.12	7.09	7.10	
1515	7.11	7.08	7.10	
1553	3.13	3.14	3.14	
1619	5.10	5.12	5.11	
I				
7.9	{2.71 {2.99	{2.70 {2.57	2.74	
8.8	4.60	4.60	4.60	
9.5	5.12	5.11	5.12	
10.3	5.79	5.86	5.82	
10.6	6.54	6.60	6.57	
11.0	7.31	{7.20 {7.23	7.25	
11.4	stars too close			
N 1313	3.03	3.08	3.06	
1511	6.39	{6.34 {6.28	6.34	
1559	3.92	3.88	3.90	
1672	3.41	3.40	3.40	

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AX 1473 - p. 42 ✓

No.	1st	2nd	Mean	Mags.
8.2	4.83	4.79	4.81	
8.9	6.15	6.10	6.12	
9.3	6.99	7.02	7.00	
10.0	7.92	{7.81 7.76}	7.84	
10.6	9.03	9.10	9.06	
10.8	7.69	7.71	7.70	
11.3	8.51	8.51	8.51	
11.4	9.37	9.39	9.38	
11.9	9.63	{9.51 9.50}	9.55	
12.0	10.04	10.03	10.04	
12.3	10.11	10.10	10.10	
12.9	10.50	10.47	10.48	
N 2784	8.43	8.41	8.42	
2835	9.18	9.20	9.19	
2997	7.40	7.38	7.39	

AX 2244 ✓ - p. 41

7.3	1.52	1.57	1.54	
8.2	2.19	{2.06 2.05}	2.10	
8.6	stars too close			
8.7	2.01	2.01	2.01	
9.1	2.50	2.50	2.50	
9.9	2.98	2.99	2.98	
10.5	3.31	{3.32 3.24}	3.28	
N 5927	1.38	1.38	1.38	

Sequence goes no brighter

B 32344 ✓

No.	1st	2nd	Mean	Mags.
7.1	0.43	{0.31 0.30}	0.34	
8.2	0.40	0.41	0.40	
8.6	0.45	0.40	0.42	
9.3	0.65	0.50	0.58	
10.1	0.83	0.82	0.82	
10.6	1.38	1.20	1.34	
11.0	1.68	1.63	1.66	
11.3	1.98	2.00	1.99	
11.5	3.09	3.17	3.13	
11.8	4.59	4.60	4.60	
12.1	6.53	{6.58 6.40}	6.50	
12.5	6.59	{6.70 6.48}	6.59	
12.7	8.10	8.20	8.15	
12.9	9.21	9.23	9.22	
13.4	12.20	12.25	12.22	
N 7793	9.68	9.50	9.59	

9.4	4.80	4.79	4.80	
10.8	5.30	{5.39 5.35}	5.37	
11.4	5.50	5.52	5.51	
11.8	5.92	5.91	5.92	
12.1	6.39	6.40	6.40	
12.4	6.03	6.01	6.02	
12.8	6.10	{6.20 6.21}	6.17	
N 5423	5.83	5.88	5.86	

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M 16 1915 ✓ p. 39	1st	2nd	Mean	Mags.
9.7	6.11	6.08	6.10	
10.3	8.90 9.09	9.02 9.00	9.00	
10.4	9.20 9.40	9.29 9.51	9.35	
10.6	9.77	9.79	9.78	
11.1	10.68	10.69	10.68	
11.3	10.81	10.81	10.81	
11.4	10.83	10.81	10.82	
11.5	10.71	10.80 10.75	10.75	
11.8	11.34	11.30	11.32	
N986	10.49	10.52	10.50	

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H. 4494 λ 320 B-36

Heb.	Mag. 1	Mag. 2	Mean
#			
96	17.0	17.0	17.0
103	15.5	16.0	15.8
105	13.5	14.0	13.7
a	16.0	16.5	16.3
m	16.5	17.0	16.7
aa	16.5	17.0	16.8
133	16.0	15.0	15.5
134	14.5	14.5	14.5
78	15.5	15.5	15.5
77	16.0	16.0	16.0
76	16.0	16.0	16.0
79	15.5	15.0	15.2
80	16.5	16.0	16.3
74	16.0	15.5	15.7
73	15.5	15.5	15.5
w	17.0	16.5	16.8
123	15.0	15.0	15.0
m	16.5	16.0	16.2
u	16.5	16.0	16.3
j	16.5	16.0 15.5	16.0
58	15.5	15.0	15.2
127	13.5	13.0 12.5	13.0
128	13.5	12.5	12
129	14.5	14.0	14.3
136	13.5	13.0 12.5	13.0
137	13.5	13.0	13.2
54	16.0	16.5	16.3
55	13.5	14.0	13.7
56	15.0	15.0	15.0

Heb.	Mag. 1	Mag. 2.	Mean
57	14.0	14.5	14.3
59	16.5	16.5	16.5
39	15.5	15.5	15.5
67	16.0	15.0 15.0	15.3
38	16.5	16.0	16.2
34	16.0	15.5	15.8
33	14.5	15.0	14.7
32	15.5	15.0	15.3
31	15.0	15.0	15.0
30	15.0	15.0	15.0
36a	14.5	14.0	14.2
36b	15.5	15.5	15.5
37	14.5	14.5	14.5
124	15.0	15.0	15.0
40	16.0	16.0	16.0
41	16.0	15.5	15.8
42	15.0	15.0	15.0
43	14.5	14.0	14.2
44	15.0	14.5	14.8
45a	16.0	15.5	15.7
47	15.0	15.0	15.0
49	15.5	15.0	15.3
45b	14.5	14.0	14.2
60	15.5	15.0	15.3
g	16.0	16.0	16.0
125	14.5	15.0	14.7
51	16.0	15.5	15.8
53	16.5	15.5 15.5	15.8
29	15.0	15.0	15.0
28	16.0	16.0	16.0

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H. 6494

Neb.	Mag. 1	Mag. 2	Mean
27	16.0	15.5	15.7
26	15.5	15.5	15.5
20	15.5	15.0	15.3
19	16.5	16.0 / 15.5	16.2
21	16.0	16.0 / 15.0	15.7
16	14.5	14.5	14.5
17	16.0	15.5	15.7
6	16.5	15.5 / 15.0	15.5
3	16.0	16.0 / 15.0	15.7
2	15.0	14.5	14.8
1	16.0	15.5	15.7
25	15.5	15.0 / 14.5	15.0
24	16.0	16.5	16.3
23	star		
g	16.5	16.5	16.5
9	14.5	14.5	14.5
8	14.5	14.5	14.5
15	14.5	14.0	14.2
N.G.C. 6893	12.5	13.0	12.8
6909	13.0	12.5	12.7
6918	14.0	14.0	14.0
N.N. 138	16.0	15.5	15.8
139	16.5	16.0	16.2
140	15.5	15.0 / 14.5	15.0
141	16.5	16.0	16.3
142	16.0	16.0 / 15.0	15.7
143	16.5	16.0 / 15.5	16.0
144	17.5	17.0 / 16.5	17.0
145	16.5	16.0	16.2
146	15.5	15.5	15.5

Neb.	Mag. 1	Mag. 2	Mean
147	16.5	16.0	16.3
148	17.0	16.5	16.7
149	17.0	16.5	16.8
150	16.0	16.0	16.0
151	17.0	17.0 / 16.0	16.7
152	16.0	15.5	15.7
153	16.5	16.0	16.3
154	17.0	16.5	16.7
155	15.5	15.0	15.3
156	16.5	16.0	16.2
157	15.0	14.5	14.8
158	16.5	16.0	16.2
159	16.0	16.0	16.0
160	H.N. 2054		
161	14.0	14.0	14.0
162	15.0	14.5	14.8
163	16.0	16.0	16.0
164	16.5	16.0	16.2
165	14.0	14.0	14.0
166	16.0	16.0	16.0
167	16.0	16.5	16.3
168	17.0	17.0 / 16.0	16.7
169	17.0	17.0 / 16.0	16.7
170	17.5	17.0	17.2
171	17.5	17.0	17.3
172	16.0	15.5	15.7
173	17.0	17.5	17.5
174	17.0	16.5	16.8
175	16.0	15.5	15.7
176	15.5	15.0	15.3

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1936phae.proj.2348M

All magnitudes remeasured on p. 124 with a new sequence set up by star counts H. 3346 and interpolation. A 226 B-52

A.8494

Neb.	Mag. 1	Mag. 2	Mean
177	15.0	15.0	15.0
178	14.5	14.5	14.5
179	17.0	{17.0 16.0}	16.7
180	17.0	16.5	16.7
181	16.5	16.5	16.5
182	17.0	16.5	16.8
183	17.0	17.0	17.0
184	16.0	15.0	15.7
185	16.0	16.5	16.5
186	15.5	15.5	15.5
just above 187 H.H. 2402	15.5	{15.0 14.5}	15.0

Neb.	Mag. 1	Mag. 2	Mean
199	17.0	16.5	16.8
198	16.5	16.5	16.5
130	16.5	16.5	16.5
177	16.5	17.0	16.7
191a	16.5	16.5	16.5
191b	17.0	17.0	17.0
179	16.5	16.5	16.5
193	17.0	17.0	170
192	17.0	17.5	17.3
189	17.0	17.0	17.0
163	16.5	16.5	16.5
200	17.5	17.5	17.5
190	17.0	17.5	17.2
162	17.0	16.5	16.8
197	17.0	17.0	17.0
194	16.5	17.0	16.7
203	16.5	16.5	16.5
190	17.0	16.5	16.8
196	17.0	17.0	17.0
159	17.0	17.0	17.0
160	17.0	17.0	17.0
161	17.5	17.0	17.2
202	16.5	16.5	16.5
15	17.0	17.0	17.0
144	17.5	17.5	17.5
145	17.5	17.0	17.3
205	17.0	16.5	16.7
146	17.0	17.0	17.0
170	17.5	17.5	17.5
171	17.0	17.0	17.0

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1930phae.proj.2340M

H. 3346

Neb.	Mag. 1	Mag. 2	Mean
176a	17.0	17.5	17.3
176b	17.0	17.5	17.2
176c	17.0	17.5	17.3
128	16.5	17.0	16.7
131	17.0	17.0	17.0
133	17.5	17.5	17.5
132	17.5	17.5	17.5
127	17.5	17.5	17.5
201	17.0	17.0	17.0
134	17.5	17.5	17.5
182	17.5	17.0	17.2
181	16.5	16.5	16.5
126	17.0	17.0	17.0
163	17.5	17.5	17.5
180	17.0	17.5	17.2
135	17.0	16.5	16.8
164	17.5	17.5	17.5
140	18.0	17.5	17.7
141	17.5	17.5	17.5
136	17.5	17.5	17.5
137	17.5	17.5	17.5
138	17.0	17.5	17.3
143	17.5	17.5	17.5
142	17.0	17.0	17.0
123	17.0	17.0	17.0
122	17.5	17.5	17.5
157	17.0	17.0	17.0
158	17.5	17.5	17.5
98	17.5	17.5	17.5
99	18.0	17.5	17.7

Neb.	Mag. 1	Mag. 2	Mean
151	17.0	17.0	17.0
110	15.0	15.0	15.0
152	17.5	17.5	17.5
108	17.5	17.5	17.5
150	17.5	17.5	17.5
106	17.0	17.0	17.0
107	17.0	17.0	17.0
149	17.0	16.5	16.8
120	I.C. 1916		
121	17.5	17.0	17.2
104	16.5	16.5	16.5
204	17.0	17.0	17.0
109	17.0	17.0	17.0
105	16.5	16.5	16.5
100	17.5	17.5	17.5
v 148	16.5	{16.0 15.5}	16.0
v 147	17.0	{16.5 16.0}	16.5
16	16.5	16.0	16.3
17	17.0	16.5	16.7
19	17.0	16.5	16.8
103	17.0	17.0	17.0
102	17.5	17.5	17.5
97	17.0	17.0	17.0
22	16.5	16.5	16.5
21	17.5	17.0	17.2
20	17.0	16.5	16.8
94	17.5	17.5	17.5
95	17.0	17.0	17.0
103	17.5	17.5	17.5
183	16.5	17.0	16.7

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1930phae.proj.2340M

17.3346

Neb.	Mag. 1	Mag. 2	Mean
120-	17.0	17.0	17.0
166	17.0	17.0	17.0
167	17.0-	17.0	17.3
168	17.0-	{16.5 / 16.0-}	16.8
119	17.0-	17.0	17.2
P7	17.0-	17.0-	17.0-
92	18.0	17.0-	17.8
90	17.0	16.0-	16.7
91	17.0-	17.0	17.3
P4	17.0-	17.0	17.2
P8	18.0	17.0-	17.8
93	17.0-	17.0-	17.0-
P9	17.0-	17.0	17.2
96	17.0-	17.0-	17.0-
185-	17.0	17.0	17.0
186	17.0	17.0	17.0
184	17.0-	17.0-	17.0-
113	17.0	17.0	17.0
112	17.0	16.0-	16.8
118	17.0	17.0	17.0
169	17.0-	17.0	17.2
P0	17.0-	17.0-	17.0-
73	17.0-	17.0-	17.0-
85	17.0	17.0	17.0
187	17.0	17.0	17.0
117	18.0	17.0-	17.8
74	17.0-	17.0-	17.0-
73	17.0-	17.0-	17.0-
72	17.0	17.0	17.2
66	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean
116	17.0-	17.0	17.3
115-	17.0-	17.0-	17.0-
114	17.0-	17.0	17.2
49	17.0-	{16.5 / 16.0-}	16.8
70	17.0	17.0-	17.3
P2	17.0	17.0	17.0
P3	17.0	17.0	17.0
P1	17.0-	17.0-	17.0-
P6	17.0-	17.0-	17.0-
79	17.0	17.0	17.0
78	18.0	17.0-	17.7
77	17.0-	17.0-	17.0-
76	18.0	17.0-	17.8
75-	17.0-	17.0-	17.0-
27	18.0	17.0-	17.7
20-	17.0	17.0	17.0
24	16.0	16.0-	16.3
28	16.0	16.0-	16.2
60	17.0-	17.0	17.3
59	17.0-	17.0-	17.0-
58	17.0-	17.0	17.2
32	17.0	17.0	17.0
31	17.0	17.0	17.0
33	17.0	17.0	17.0
34	16.0-	17.0	16.8
35	17.0-	17.0	17.2
38	17.0	17.0	17.0
36	17.0-	17.0-	17.0-
37	16.0-	16.0-	16.0-
54	17.0	17.0	17.0

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A.3346

Neb.	Mag. 1	Mag. 2	Mean
33	17.5-	17.5	17.5-
39	17.0	17.0	17.0
43	17.0	16.5-	16.8
44	17.5-	17.5-	17.5-
41	17.5-	17.5-	17.5-
40	16.5-	16.5-	16.5-
42	16.5-	17.0	16.7
45	17.5-	17.5-	17.5-
46	17.0	17.0	17.0
47	17.0	17.0	17.0
48	17.0	17.0	17.0
48	17.5-	17.5-	17.5-
50	17.0	17.5-	17.3
51	17.5-	17.5-	17.5-
52	16.5-	17.0	16.7
56	17.5-	17.5-	17.5-
57	17.5-	17.5-	17.5-
68	17.0	16.5-	16.8
69	17.0	17.0	17.0
7	17.5-	17.5-	17.5-
9	16.5-	17.0	16.7
12	17.0	17.5-	17.3
6	17.5-	18.0	17.7
13	18.0	18.0	18.0
14	17.0	17.0	17.0
15-	17.0	17.0	17.0
109	16.5-	16.5-	16.5-
B	16.5-	16.5-	16.5-
I.C. 1916	16.0	15.0 15.0	15.7
1937	15.0	14.5-	14.8

Neb.	Mag. 1	Mag. 2	Mean
I.C. 1944	16.0	16.5-	16.2
1948	16.5-	16.0	16.3
1949	12.5-	12.5-	12.5-
1961	16.5-	15.0 15.0	16.5-
N.N. 206	17.0	17.0	17.0
207	17.0	17.0	17.0
208	17.0	17.0	17.0
209	17.0	17.0	17.0
210	16.5-	17.0	16.7
211	17.0	17.5-	17.3
212	17.0	17.5-	17.2
213	17.5-	17.5-	17.5-
214	16.0	16.5-	16.3
215-	16.5-	17.5- 17.5-	17.2
216	17.0	17.5-	17.2
217	16.5-	17.0	16.8
218	16.5-	17.0	16.7
219	17.0	17.5-	17.3
220	17.5-	17.5-	17.5-
221	17.0	17.5-	17.2
222	16.5-	17.0	16.8
223	17.0	17.5-	17.2
224	17.0	17.5-	17.3
225-	17.0	17.5-	17.2
226	17.0	17.0	17.0
227	17.5-	18.0	17.8
228	16.5-	17.0	16.7
229	16.5-	17.0	16.8
230	17.0	17.5-	17.2
231	17.0	17.0	17.0

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F. 3346

Neb.	Mag. 1	Mag. 2	Mean
232	17.5-	17.5-	17.5
233	16.5-	{17.5- 17.5-	17.2
234	16.5-	17.0	16.8
235	16.0	{17.0 17.0	16.7
236	17.0	17.5-	17.2
237	17.0	17.5-	17.3
238	17.0	17.0	17.0
239	17.0	17.5-	17.2
240	17.5-	17.5-	17.5
241	17.5-	18.0	17.8
242	17.0	17.5-	17.2
243	17.0	17.5-	17.3
244	17.5-	17.5-	17.5
245	17.5-	17.5-	17.5
246	17.5-	17.5-	17.5
247	17.0	17.5-	17.2
248	17.0	17.5-	17.3
249	17.5-	18.0	17.7
250	17.5-	17.5-	17.5
251	17.5-	18.0	17.8
252	17.5-	18.0	17.7
253	17.5-	17.5-	17.5
254	17.5-	17.5-	17.5
255	18.0	18.0	18.0
256	17.5-	17.5-	17.5
257	17.5-	17.5-	17.5
258	17.0	17.5-	17.3
259	17.5-	17.5-	17.5
260	17.5-	17.5-	17.5
261	17.0	17.5-	17.2

Neb.	Mag. 1	Mag. 2	Mean
262	17.0	17.5-	17.3
263	17.5-	18.0	17.7
264	17.0	17.5-	17.2
265	16.5-	{17.5- 17.5-	17.2
266	16.0	{17.0 17.0	16.7
267	17.0	17.5-	17.3
268	17.5-	17.5-	17.5
269	17.5-	17.5-	17.5
270	17.0	17.5-	17.2
271	17.0	17.5-	17.3
272	17.0	17.0	17.0
273	17.0	17.5-	17.2
274	17.0	17.5-	17.3
275	17.0	17.5-	17.2
276	17.0	17.5-	17.3
277	17.5-	18.0	17.7
278	17.5-	17.5-	17.5
279	17.5-	17.5-	17.5
280	17.0	17.5-	17.3
281	17.5-	17.5-	17.5
282	17.0	17.5-	17.2
283	17.5-	17.5-	17.5
284	17.0	17.5-	17.3
285	17.5-	17.5-	17.5
286	17.5-	18.0	17.7
287	17.0	17.5-	17.3
288	17.0	17.5-	17.2
289	17.5-	17.5-	17.5
290	17.5-	19.5	17.5
291	17.5-	19.5	17.5

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H.3376

Neb.	Mag.1	Mag.2	Mean
292	17.0	17.5	17.3
293	17.5	17.5	17.5
294	18.0	18.0	18.0
295	17.5	18.0	17.7
296	17.5	17.5	17.5
297	17.5	17.5	17.5
298	17.5	17.5	17.5
299	17.5	17.5	17.5
300	17.5	17.5	17.5
301	17.5	17.5	17.5
302	17.5	17.5	17.5
303	17.5	17.5	17.5
304	18.0	18.0	18.0
305	17.5	17.5	17.5
306	17.5	17.5	17.5
307	17.5	18.0	17.8
308	17.0	17.0	17.0
309	18.0	17.5	17.7
310	17.5	17.5	17.5
311	17.5	18.0	17.8
312	17.0	17.5	17.2
313	17.0	17.5	17.3
314	17.5	17.5	17.5
315	17.0	17.5	17.2
316	17.5	17.5	17.5
317	17.5	17.5	17.5
318	17.0	17.5	17.3
319	17.5	17.5	17.5
320	18.0	18.0	18.0
321	17.0	17.5	17.2
322	17.5	17.5	17.5
323	17.0	17.0	17.0
324	17.0	17.5	17.3
325	17.5	17.5	17.5
326	17.5	17.5	17.5
327	17.5	17.5	17.5
328	18.0	18.0	18.0
329	17.0	17.5	17.2
330	17.0	17.5	17.3
331	17.5	17.5	17.5
332	17.5	17.5	17.5
333	17.5	17.5	17.5
334	17.0	17.0	17.0
335	17.5	17.5	17.5
336	17.5	17.5	17.5
337	18.0	17.5	17.7
338	17.5	17.5	17.5
339	18.0	18.0	18.0
340	17.5	17.5	17.5
341	17.0	17.0	17.0
342	17.5	17.5	17.5
343	17.5	17.5	17.5
344	17.5	17.5	17.5
345	17.5	17.5	17.5
346	17.5	17.5	17.5
347	17.5	17.5	17.5
348	17.5	17.5	17.5
349	17.5	17.5	17.5
350	17.0	17.5	17.3
351	17.5	17.5	17.5

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1950phae.proj.2340M

Neb.	Mag.1	Mag.2	Mean
352	17.5⁻	17.5⁻	17.5⁻
353	17.5⁻	17.5⁻	17.5⁻
354	17.5⁻	17.5⁻	17.5⁻
355	17.5⁻	17.5⁻	17.5⁻
356	17.5⁻	17.5⁻	17.5⁻
357	17.5⁻	17.5⁻	17.5⁻
358	17.5⁻	17.5⁻	17.5⁻
359	17.5⁻	17.5⁻	17.5⁻
360	17.5⁻	17.5⁻	17.5⁻
361	18.0	17.5⁻	17.7
362	17.5⁻	17.5⁻	17.5⁻
363	17.5⁻	17.5⁻	17.5⁻
364	18.0	17.5⁻	17.8
365	17.5⁻	17.5⁻	17.5⁻
366	17.5⁻	17.5⁻	17.5⁻
367	17.5⁻	17.5⁻	17.5⁻
368	18.0	17.5⁻	17.8
369	17.5⁻	17.5⁻	17.5⁻
370	17.5⁻	17.5⁻	17.5⁻
371	17.5⁻	17.5⁻	17.5⁻
372	17.5⁻	17.5⁻	17.5⁻
373	17.5⁻	17.5⁻	17.5⁻
374	17.5⁻	17.5⁻	17.5⁻
375	17.5⁻	17.5⁻	17.5⁻
376	17.5⁻	17.5⁻	17.5⁻
377	17.5⁻	17.5⁻	17.5⁻
378	18.0	18.0	18.0
379	17.5⁻	17.5⁻	17.5⁻
380	17.5⁻	17.5⁻	17.5⁻
381	16.5⁻	17.0	16.7

Neb.	Mag.1	Mag.2	Mean
382	17.0	17.5⁻	17.3
383	17.5⁻	17.5⁻	17.5⁻
384	17.5⁻	17.5⁻	17.5⁻
385	18.0	18.0	18.0
386	17.5⁻	17.5⁻	17.5⁻
387	17.5⁻	17.5⁻	17.5⁻
388	16.5⁻	17.0	16.7
389	17.0	17.5⁻	17.3
390	17.5⁻	17.5⁻	17.5⁻
391	17.0	17.0	17.0
392	17.5⁻	17.5⁻	17.5⁻
393	17.5⁻	17.5⁻	17.5⁻
394	17.5⁻	17.5⁻	17.5⁻
395	17.5⁻	17.5⁻	17.5⁻
396	17.0	17.0	17.0
397	17.5⁻	17.5⁻	17.5⁻
398	17.0	17.5⁻	17.2
399	17.0	17.0	17.0
400	17.0	17.0	17.0
401	17.0	17.5⁻	17.3
402	17.0	17.5⁻	17.2
403	17.5⁻	17.0	17.3
404	17.0	17.0	17.0
405	14.0	14.0	14.0
406	17.0	16.5⁻	16.7
✓ 407	17.0	{17.0 / 16.0}	16.7

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1930phae.proj.2340M

4.4184 λ 236 β -46

Neb.	Mag. 1	Mag. 2	Mean
3	15.5	15.5	15.5
5	14.5	15.0	14.8
8	15.0	15.5	15.3
9	16.0	15.5	15.7
10	16.0	15.5	15.8
220	16.5	16.5	16.5
14	16.0	16.0	16.0
28a	16.0	16.0	16.0
28b	16.5	16.5	16.5
12	16.5	16.5	16.5
13	16.0	16.0	16.0
a	16.0	16.0	16.0
17	15.5	16.0	15.7
18	16.0	16.5	16.3
19	16.5	16.0	16.2
22	15.5	16.0	15.8
31	16.5	16.5	16.5
41	16.5	16.5	16.5
119	17.5	17.0	17.2
2	16.5	16.5	16.5
121	16.5	16.5	16.5
120	16.0	16.0	16.0
122	16.0	16.5	16.3
124	15.5	16.0	15.7
125	17.0	16.5	16.8
126	16.5	16.0	16.2
127	16.5	16.5	16.5
51	15.5	16.0	15.8
b	16.0	16.0	16.0
48	15.5	15.5	15.5
49a	16.0	16.5	16.2
49b	16.5	17.0	16.8

Neb.	Mag. 1	Mag. 2	Mean
113	15.5	15.5	15.5
115	16.5	16.5	16.5
114	16.5	17.0	16.7
116	16.0	16.5	16.3
41	17.0	16.5	16.7
52	16.0	16.0	16.0
53	15.5	15.5	15.5
55	16.0	16.0	16.0
54	17.0	16.5	16.8
44	15.5	16.0	15.7
48	15.5	16.0	15.8
103	17.0	17.0	17.0
66	16.0	16.0	16.0
86	16.5	16.5	16.5
85	16.5	16.5	16.5
227	16.0	16.5	16.2
46	16.5	16.5	16.5
87	star		
f	16.0	16.0	16.0
c	16.0	16.0	16.0
98	16.5	16.5	16.5
95	14.5	14.5	14.5
94	16.5	16.0	16.3
93	star		
92	16.5	16.5	16.5
79	16.0	16.5	16.2
78	16.0	16.5	16.3
77	16.0	16.5	16.2
92	17.0	17.0 / 16.0	16.8
d	17.0	16.5	16.8

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17.4184

Neb.	Mag. 1	Mag. 2	Mean
61	16.0	16.0	16.0
62	16.0	16.0	16.0
63	16.5⁻	16.5⁻	16.5
64	16.5⁻	16.5⁻	16.5
65	16.0	15.5⁻	15.7
66	16.5⁻	17.0	16.8
72	16.0	16.5⁻	16.2
71	15.5⁻	16.0	15.8
70	16.0	16.5⁻	16.2
69	16.0	15.5⁻	15.8
68	16.0	16.5⁻	16.2
67	15.5⁻	16.0	15.8
104	15.0	15.0	15.0
105	15.0	15.0	15.0
106	16.5⁻	17.0	16.7
107	15.5⁻	15.0	15.3
91	16.0	{17.0 17.0}	16.7
t	16.0	{17.0 17.0}	16.7
90	16.0	16.5⁻	16.2
89	15.5⁻	15.0	15.3
107	16.5⁻	16.5⁻	16.5
108	15.5⁻	15.5⁻	15.5
109	16.5⁻	16.5⁻	16.5
110	16.0	16.5⁻	16.2
111	15.5⁻	16.0	15.8
112	16.0	16.0	16.0
105	16.0	16.0	16.0
106	16.0	15.5⁻	15.7
96	17.0	16.5⁻	16.8
97	16.5⁻	16.5⁻	16.5

Neb.	Mag. 1	Mag. 2	Mean
98	16.5⁻	16.5⁻	16.5⁻
101	16.0	16.0	16.0
104	16.0	16.0	16.0
99	16.0	16.0	16.0
100	16.5⁻	16.5⁻	16.5⁻
144	15.5⁻	15.5⁻	15.5⁻
145	16.0	16.0	16.0
146	15.0	15.0	15.0
147	17.0	17.0	17.0
148	16.0	16.0	16.0
150	15.0	15.0	15.0
151	15.0	15.5⁻	15.2
152	16.0	16.0	16.0
153	14.5⁻	14.0	14.3
159	16.0	15.5⁻	15.7
158	15.5⁻	15.5⁻	15.5
g	16.0	16.0	16.0
160	15.5⁻	15.0	15.3
h	16.0	15.5⁻	15.7
162	16.0	16.5⁻	16.3
164	15.5⁻	16.0	15.7
163	17.0	17.0	17.0
~~162~~	star		
~~161~~	star		
166	15.5⁻	15.5⁻	15.5⁻
167	16.0	16.5⁻	16.3
168	16.0	16.0	16.0
169	16.0	16.0	16.0
170	16.5⁻	16.5⁻	16.5
171	16.5⁻	17.0	16.7

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16

H. HIH

Neb.	Mag. 1	Mag. 2	Mean
172	16.5	16.5	16.5
173	16.0	16.0	16.0
141	15.5	15.5	15.5
142	16.5	15.5	16.5
defect? 138	15.0	15.0	15.0
139	16.0	16.0	16.0
140	16.5	16.0	16.5
136	16.0	16.0	16.0
135	16.5	17.0	16.8
128	16.0	16.5	16.2
130	15.5	15.0	15.5
134	16.5	15.5	15.5
133	16.5	16.5	16.5
132	16.5	16.5	16.5
131	16.5	17.0	16.8
129	17.0	16.5	16.7
219	16.0	16.0	16.0
220	16.0	16.0	16.9
221	16.0	16.0	16.0
222	16.0	16.0	16.0
[illegible]	16.0	16.0	16.0
[illegible]	16.0	16.0	16.0
215	15.0	15.0	15.0
216	16.0	16.0	16.0
218	16.5	16.5	16.5
214	16.5	16.0	16.3
213	15.5	15.5	15.5
211	16.5	16.5	16.5
208	16.5	16.0	16.2
207	16.0	16.0	16.0

Neb.	Mag. 1	Mag. 2	Mean
206	15.5	15.5	15.5
[illegible]	16.5	17.0	16.8
[illegible]	[illegible]		
205	16.0	16.0	16.2
209	16.0	16.5	16.3
[illegible]	15.5	15.5	15.5
202	16.0	16.5	16.5
[illegible]	[illegible]		
180	16.0	16.5	16.2
184	16.0	16.0	16.0
181	15.0	16.0	15.8
177	16.0	16.0	16.0
176a	16.0	16.0	16.0
176b	16.0	16.0	16.0
175	16.5	15.5 16.5	16.2
174	16.0	16.0	16.0
230	16.0	16.5	16.2
[illegible]	16.5	17.0	16.8
I.C. 1935	15.5	16.0	15.7
1960	15.0	15.5	15.3
1965	15.5	16.0	15.7
1979	15.5	16.0	15.8
1980	14.5	14.5	14.5
1982	15.5	15.5	15.5
1987	15.0	15.0	15.0
1996	16.0	16.0	16.0
1997	14.0	14.5	14.2
1999	15.0	15.5	15.3
2010	14.0	14.0	14.0
2011	15.0	15.5	15.2
2012	16.0	16.0	16.0

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H.4184 ↓ 80 58 4 164 H.5655 λ307 B-24

Neb.	Mag. 1	Mag. 2	Mean
I.C. 2014	15.0	15.5	15.3
2017	14.5	15.0	14.7
2022	16.0	16.0	16.0
2032	14.0	14.0	14.0
2034	15.0	15.5	15.3
2037	14.0	14.5	14.2
2038	14.0	14.5	14.5
2039	14.5	15.0	14.8
2049	14.5	15.0	14.7
2054	12.5	13.0	12.8
2060	13.5	13.5	13.5
N.G.C. 1533	11.0	11.5	11.2
1536	12.5	12.0	11.8
1543	10.5	11.0	10.7
1546	11.0	11.5	11.3
1549	10.0	10.0	10.0
1553	Mag. previously found in list of bright nebulae		

Neb.	Mag. 1	Mag. 2	Mean	
10	16.5	16.5	16.5	
47	17.0	17.5	17.3	
8	16.5	16.5	16.5	
7	16.0	16.5	16.2	
2	17.0	17.0	17.0	
H.N. 1922 (1)	16.0	16.5	16.3	
5	16.5	16.5	16.5	
9	17.0	17.0	17.0	
3	17.0	16.5	16.7	
12	16.5	17.0	16.8	
11				
H.N. 1922 (13)	15.5	15.0	15.2	
I.C. 4720	10.5	11.0	10.8	plate badly darkened
4721	bts. thru 10th mag.			plate darkened at edge. Impossible to tell stars.
4722	11.0	10.5	10.7	plate badly darkened
4734	14.0	14.0	14.0	
4736	15.0	14.5	14.8	
4757	15.0	15.0	15.0	
4774	15.0	15.5	15.2	
4775	15.0	15.0	15.0	
4780	15.0	14.5	14.8	
4782	15.5	16.0	15.7	
4783	15.0	15.0	15.0	
4785	13.5	14.5	14.0	
4786	16.0	16.0	16.0	
4792	16.5	16.0	16.3	
4806	15.0	15.0	15.0	
4807	14.5	14.5	14.5	
4810	14.5	13.5	14.0	
4814	15.0	14.5	14.7	

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A. 5655

Neb.	Mag. 1	Mag. 2	Mean
HP17	13.5	14.0	14.7
HP18	13.5	13.0	13.3
HP19	13.5	14.5	14.0
HP21	12.0	12.5	12.2
HP26	13.0	13.0	13.0
HP29	16.0	13.5	13.8
HP30	12.0	11.5	11.7
HP32	13.5	13.5	13.5
HP35	13.0	13.0	13.0
HP37	11.0	11.5	11.3
HP39	11.5	12.0	11.7
HP40	13.5	14.5	14.0
HP43	13.5	13.0	13.3
HP44	13.5	13.5	13.5
HP48	13.0	14.5	14.7
N.G.C. 6699	11.0	12.0	11.5
6721	13.5	13.5	13.5
6753	10.0	10.0	10.0
6758	13.0	12.5	12.8
6780	11.5	12.0 13.0	12.2

A. 5656

Neb.	Mag. 1	Mag. 2	Mean
N.G.C.			
6788	12.5	12.5	12.5
6799	13.0	13.5	13.2
I. HP51	13.0	13.0	13.0
HP54	13.0	13.0	13.0
HP55	17.5	17.5	17.5
HP56	13.0	13.5	13.2
HP57	17.0	17.0	17.0
HP58	13.5	13.0	13.3
HP61	13.0	13.0	13.0
N.N.10	13.5	13.0	13.2
16	16.0	13.5	13.8

H.N. 18

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1930phae.proj.2:48M

H. 5576 λ301 β-25

Neb.	Mag. 1	Mag. 2	Mean	
6	16.5-	16.5-	16.5-	
7	16.0	16.5-	16.2	
15	16.5-	16.0	16.3	
8	17.0 16.5- 17.0	17.0 16.5- 17.0	17.0 16.0- 17.0	triple nebula
9	15.5-	15.5-	15.5-	
10	17.0-	16.0	16.5-	
11	16.0	16.0	16.0	
12	15.5-	15.5-	15.5-	
21	15.5-	15.0	15.0	
20	15.0	15.5-	15.2	
86	14.0	14.5-	14.3	
80	15.0	15.5-	15.2	
81	15.5-	15.5-	15.5-	
79	15.0	15.0	15.0	
3	15.5-	15.5-	15.5-	
14	15.5-	16.0	15.8	
13	15.5-	16.0	15.7	
H.N. 1881 (17)	13.5-	14.0	13.8	
18	14.0	15.0	14.5-	
120	14.0	14.0	14.0	
16	14.0	13.5-	13.7	
62	14.0	14.0	14.0	
64	14.0	13.5-	13.8	
63	15.5-	14.0-	14.2	
C	16.0	15.5-	15.8	
H.N. 1871 (24)	15.5-	15.5-	15.5-	
H.N. 1865 (23)	13.0	13.0	13.0	—
I.C. 4748	15.5-	15.5-	15.5-	
4749	15.0	15.0	15.0	
4750	15.5-	15.5-	15.5-	

Neb.	Mag. 1	Mag. 2	Mean	
I H 751	14.0	13.5-	13.7	
H 752	14.5-	15.0	14.8	
H 753	14.5-	14.0	14.2	
H 754	14.0	14.5- 13.5-	14.3	
H 755	15.0	13.5-	14.0	
H 802	15.5-	15.5-	15.5-	
H 804	15.5-	16.5-	16.0	
H 805	14.0	14.0	14.0	
H 809	14.0	13.5-	13.7	
H 815	14.0	13.5-	13.8	
H 820	14.5-	14.0	14.2	
H 823	16.0 15.5-	16.0 14.5-	16.0 15.0	double nebula
H 824	15.5-	15.5-	15.5-	
H 827	12.0	11.0	11.5-	
H 828	13.5-	13.5-	13.5-	
H 831	9.5-	9.5-	9.5-	
H 833	13.5-	14.0	13.8	
H 834	14.0	14.0	14.0	
H 836	10.5-	10.0	10.2	
H 838	12.5-	13.5-	13.0	
H 842	12.5-	13.0	12.8	
H 845	12.5-	13.5-	13.0	
H 849	13.0	13.0	13.0	
H 852	12.0	11.0	11.5-	
N.G.C.				
6722	12.5-	11.5-	12.0	
6733	14.0	13.5-	13.7	
6739	12.5-	12.5-	12.5-	
6744	Mag. found under class. of test neb.			
6745	13.5	13.5-	13.5-	

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17.0-46

Neb.	Mag. 1	Mag. 2	Mean
N.G.C. 6769	Mag. found under class of 1st neb.		
6770	13.0	13.0	13.0
6771	13.0-	12.0-	13.0
6782	12.0	11.0-	11.8
N.N. 26	16.0	16.0	16.0
27	16.0-	16.0-	16.0-
28	15.0-	16.0	15.7
24	16.0-	16.0-	16.0-
29	16.0-	16.0-	16.0-
30	16.0-	16.0-	16.0-
31	17.0	16.0-	16.8
24	15.0-	15.0-	15.2-
25	16.0	16.0	16.0
26	15.0-	16.0	15.8
27	14.0	13.0-	13.7

A. 6-04 λ310 B-21

Neb.	Mag. 1	Mag. 2	Mean	
1	14.0	14.0-	14.2	H.
2	13.0-	14.0	13.8	
3	15.0-	15.0-	15.0-	
4	16.0	15.0-	15.7	
5	16.0	16.0	16.0	
6	15.0-	15.0	15.2	
8	14.0-	14.0-	14.0-	a pair
9	14.0-	14.0-	14.0-	a pair
10	13.0-	13.0	13.2	
I.4761	14.0-	13.0-	14.0	
4777	14.0	14.0-	14.3	
4796	13.0	12.0-	12.7	
4797	12.0	11.0-	11.8	
N.G.C.				
6707	12.0	11.0	11.0-	
6708	12.0	12.0	12.0	
6725	12.0	11.0-	11.7	
11	16.0-	16.0	16.3	
12	16.0-	16.0-	16.0-	
13	17.0	16.0	16.0-	
14	16.0-	15.0-	16.0	
15	16.0-	16.0	16.2	
16	16.0-	16.0	16.3	
17	16.0-	16.0-	16.0-	
18	16.0	15.0-	15.7	
19	16.0-	16.0	16.3	
20	16.0-	16.0	16.2	
21	15.0-	15.0	15.3	
22	16.0	16.0	16.0	
23	16.0	15.0-	15.7	

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17.0-19.5 λ308 β-33

Neb.	Mag.1	Mag.2	Mean
H.N. 2026	17.5-	17.0	17.3
2028	16.5-	16.5-	16.5-
2031	17.5-	17.0	17.2
2038	16.5-	15.5-	16.0
2047	17.0	16.5-	16.8
2052	15.5-	15.5-	15.5-
2053	17.5-	17.0	17.2
2068	17.0	16.5-	16.8
2090-	15.5-	15.5-	15.5-
2097	16.0	15.0	15.5-
2100	16.5-	16.0	16.2
2101	17.0	17.0	17.0
2105-	17.0	17.0	17.0
2106	15.0	14.5-	14.8
2108	17.5-	17.5-	17.5-
2109	17.5-	17.0	17.2
2112	16.5-	16.5-	16.5-
2113	15.5-	15.5-	15.5-
2114	15.5-	15.5-	15.5-
2115-	16.0	16.5-	16.3
2118	15.5-	16.0	16.2
2119	15.5-	15.5-	15.5-
2120	17.0	16.5-	16.8
2123	15.5-	15.5-	15.5-
2124	17.0	16.5-	16.7
2125-	16.5-	16.5-	16.5-
2126	17.5-	16.5-	17.0
2132	16.5-	16.0	16.3
2136	17.5-	17.5-	17.5-
2138-	17.0	16.5-	16.7

Neb.	Mag.1	Mag.2	Mean
H.N.2139	17.0	17.0	17.0
2143	16.5-	16.0	16.3
2145-	17.0	16.5-	16.7
2148	17.0	16.0	16.5-
2157	16.5-	16.0	16.3
2158	15.5-	15.0	15.2
2162	15.0	15.0	15.0
2165	16.5-	16.0	16.3
2176	16.5-	16.0	16.2
2181	16.0	15.5-	15.8
2182	16.5-	16.5-	16.5-
2183	16.0	16.0	16.0
2190	16.5-	16.5-	16.5-
2199	16.5-	16.0	16.2
2201	16.0	16.5-	16.3
2204	16.5-	16.0	16.2
2208	16.5-	16.5-	16.5-
2210	16.5-	16.5-	16.5-
2212	17.0	17.0	17.0
2215-	16.5-	16.5-	16.5-
2216	17.0	16.5-	16.8
2220	17.0	16.5-	16.7
2224	17.0	16.5-	16.8
2256	15.5-	15.5-	15.5-
2267	17.0	16.5-	16.7
2273	16.0	16.0	16.0
2274	16.5-	16.5-	16.5-
2275-	16.0	16.0	16.0
2276	16.5-	16.5-	16.5-
2281	15.0	15.0	15.0

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17.5695

Neb.	Mag. 1	Mag. 2	Mean
H.N. 2294	16.0	16.0	16.0
2303	16.5"	16.5"	16.5
2305	16.0	16.5"	16.3
I.C. 4271	12.5"	13.0	12.7
4272	16.0	15.5"	15.8
4274	14.0	14.5	14.2
4280	14.5"	14.5"	14.5
4281	14.0	13.5"	13.8
4282	14.0	15.0	14.5"
4283	12.5"	12.5"	12.5
4284	15.5"	16.0	15.7
4290	13.5"	14.5"	14.0
4296	15.0	16.0	15.5"
H901	11.5"	11.5"	11.5"
H902	16.0	16.0	16.0
H904	15.0	15.0	15.0
H910	15.5"	16.0	15.8
H919	16.5"	16.5"	16.5"
H933	13.5"	12.5"	13.0
H935	13.5"	13.5"	13.5"
H937	15.0	14.5"	14.7
N.G.C. 6810	11.5"	11.5"	11.5"
6812	12.5"	12.5"	12.5"
6814	13.5"	13.5"	13.5"
6850	12.5"	12.5"	12.5"
N.H. 1	16.0	15.0	15.5"
2	15.0	14.0	14.5"
3	15.0	14.0	14.5

17.6909

Neb. H.N.	Mag. 1	Mag. 2	Mean
2020			
2021			
2025"			
2044			
2046			
2048			
2049			
2056			
2057			
2059			
2060			
2061			
2062			
2063			
2064			
2065"			
2070			
2071			
2072			
2075"			
2077			
2079			
2080			
2081			
2083			
2084			
2085"			
2087			
2089			
2091			

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1930phae.proj.234PM

A. 6909

Neb.	Mag. 1	Mag. 2	Mean
H.N. 2093			
2098			
2102			
2103			
2104			
2110			
2111			
2117			
2121			
2127			
2128			
2129			
2131			
2137			
2141			
2144			
2147			
2150			
2160			
2163			
2166			
2167			
2168			
2171			
2177			
2179			
2186			
2192			
2193			
2194			

Neb. H.Cl.	Mag. 1	Mag. 2	Mean
2195			
2196			
2198			
2202			
2206			
2209			
2217			
2219			
2220			
2222			
2223			
2226			
2230			
2232			
2234			
2240			
2241			
2242			
2244			
2247			
2250			
2251			
2252			
2277			
2282			
2290			
2291			
2292			
2293			
2301			

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1930phae.proj.2340M

A. 6909

Neb.	Mag. 1	Mag. 2	Mean
H.N. 2304			
2312			
2315			
2323			
2338			
2341			
2343			
I.C. 4895			
4896			
4897			
4899			
4886			
4888			
4889			
4891			
4894			
4897			
4900			
4909			
4909			
4911			
4914			
4912			
N.N. 1			
3			
4			

A. 7412 λ312 B-23

Neb.	Mag. 1	Mag. 2	Mean
1P32-5338.1	15.0	14.0	14.7
1P37-5355.7	15.0	15.0	15.0
1P38-5238.1	15.0	15.0	15.3
1P38-5215.2	15.0	15.0	15.0
1PH2-5721.9	12.0	12.0	12.0
1PH2-5046.0	16.0	17.0	16.5
1PH2-5134.9	16.0	16.0	16.2
1PH2-5032.7	13.0	13.0 (15.0)	13.0
1PH3-5240.3	14.0	14.0	14.0
1PH3-5159.5	15.0	15.0	15.0
1PH4-5039.8	15.0	15.0	15.0
1PH5-5047.6	16.0	15.0	15.8
1PH7-5127.4	16.0	15.0	15.7
1P4F-5440.4	12.0	13.0	12.8
1P50-5343.0	15.0	15.0	15.2
1P51-5424.5	12.0	14.0	13.8
1P52-5406.4	15.0	15.0	15.2
1P53-5337.0	17.0	17.0	17.0
1P53-5400.2	12.0	12.0	12.0
1P53-5336.7	15.0	16.0	15.8
1P53-5319.0	14.0	14.0	14.0
1P56-5256.2	15.0	15.0	15.2
1P5L-5407.9	13.0	13.0	13.0
1P57-5415.4	15.0	15.0	15.3
1P59-5207.5	15.0	15.0	15.0
1901-5112.0	14.0	15.0	14.7
1903-5302.0	15.0	15.0	15.0
1904-5402.1	14.0	13.0	13.8
1907-5350.1	14.0	15.0	14.7

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1930phae.proj.2348M

A. 7412

Oleb.	Mag. 1	Mag. 2	Mean
N.G.C. 6754	11.5-	12.0	11.8
6761	14.5-	14.0-	14.2-
N.N. 1	15.0	15.0	15.0
2	16.0	16.0	16.0
3	17.0	17.0	17.0
4	17.0	17.0	17.0
5	16.0	15.0-	15.5-
6	15.0-	15.0-	15.5-
7	17.0	17.0	17.0
8	15.0	15.0	15.0
9	17.0	17.0	17.0

A. 7451 2314 B-35

Oleb. H.N.	Mag. 1	Mag. 2	Mean
2300	16.5-	16.5-	16.5-
2309	17.0	17.0	17.0
2308	17.0	17.5-	17.2
2309	17.5-	17.5-	17.5
2311	17.0	17.0	17.0
2313	17.0	17.0	17.0
2314	17.0	17.0	17.0
2319	16.5-	16.5-	16.5-
2320	17.0	17.5-	17.3
2322	17.0	17.0	17.0
2324	16.5-	17.5-	17.0
2328	16.5-	16.5-	16.5-
2330	17.5-	17.0	17.2
2331	17.5-	17.5-	17.5-
2332	17.5-	17.0	17.3
2333	16.5-	16.5-	16.5-
2334	17.0	17.0	17.0
2335	17.0	17.5-	17.2
2336	17.0	17.5-	17.3
2337	16.5-	16.5-	16.5-
~~2338~~		1-	
2339	17.0	17.0	17.0
2340	17.5-	17.5-	17.5-
2342	17.0	17.0	17.0
2344	17.0	17.0	17.0
2345	15.5-	16.5-	16.0
2346	13.5-	13.5-	13.5-
2347	17.0	17.0	17.0
2348	16.5	17.0	16.7
2349	15.0	16.0	15.5-

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1930phae.proj.2340M

A.7405

Neb.	Mag. 1	Mag. 2	Mean
H.N. 2360	16.5"	17.0	16.8
2361	14.5"	14.5"	14.5"
2362	15.0	15.5"	15.2
2363	13.5"	13.0	13.2
2364	14.5"	15.0	14.7
2365	14.0	14.0	14.0
2366	17.0	17.0	17.0
2367	17.0	17.5"	17.3
2368	16.5"	17.0	16.7
2369	14.5"	14.0	14.2
2360	15.5"	16.5"	16.0
2361	15.0"	15.5"	15.2"
2362	15.0	15.5"	15.2
2363	14.0	13.5"	13.8
2364	18.0	18.0	18.0
2365	17.5"	17.5	17.5"
2366	17.0	17.0	17.0
2367	17.5"	17.0	17.2
2368	17.0	17.0	17.0
2369	16.5"	17.0	16.8
2370	15.5"	15.5"	15.5"
2371	16.5"	16.5"	16.5"
2372	17.0	17.0	17.0
2373	17.5"	17.0	17.2
2374	17.0	17.5"	17.3
2375	17.5"	17.5"	17.5"
2376	13.0	13.0	13.0
2377	17.0	17.0	17.0
2378	16.5"	16.0	16.2
2379	14.0	13.5"	13.8

Neb.	Mag. 1	Mag. 2	Mean
2380	17.0	17.5"	17.2
2381	13.0"	13.5"	13.5"
2382	16.0	17.0	16.5"
2383	16.0	16.0	16.0
2384	17.0	17.0	17.0
2385	16.5"	16.5"	16.5"
2386	17.5"	17.5"	17.5"
2387	17.5"	17.5"	17.5"
2388	17.5"	17.5"	17.5"
2389	15.0	14.5"	14.8
2390	17.5"	17.5"	17.5"
2391	17.0	16.5"	16.7
2392	17.0	16.5"	16.8
2393	15.0	15.5"	15.2
2394	17.5	17.5"	17.5"
2395	(15.5) 17.0	13.5" 17.0	13.5" 17.0
2396	16.5"	16.5"	16.5"
2397	14.0	13.0	13.5"
2398	18.0	17.0	17.5
2399	16.5"	16.0	16.8
2400	17.5"	17.0	17.2
2401	17.0	16.5"	16.8
2402	16.5"	17.0	16.7
2403	14.0	13.0"	13.8
2404	16.0	15.5"	15.7
2405	17.0	17.0	17.0
2406	16.5"	17.0	16.8
2407	12.5"	12.0	12.2
2408	13.5"	13.0	13.2
2409	14.0	14.0	14.0

probably double

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1930phae.proj.234PM

17.7451

Neb.	Mag.1	Mag.2	Mean
H.N.2410	16.5-	16.5-	16.0
2411	14.0	13.5-	14.0
2412	14.0	14.0	14.0
2413	13.5-	14.5-	14.0
N.G.C. 6854	13.0-	14.0	13.7
6887	11.5-	12.5-	12.0
6889	13.0	13.5-	13.3
6899	12.5-	12.0	12.2
6925	11.5-	11.5-	11.5-
6937	13.5-	13.0	13.3
6942	13.0	13.0	13.0
I.C. 4916	13.5-	13.5-	13.5-
4917	16.0	16.5-	16.2
4918	17.0	17.5-	17.3
4920	17.5-	14.0	17.7
4923	16.5-	16.5-	16.5-
4925	17.0	17.0	17.0
4927	16.0	16.0	16.0
4930	not seen		
4932	17.0	17.0	17.0
4941	17.5-	17.5-	17.5-
4942	17.0	17.0	17.0
4944	16.0	16.0	16.0
4947	17.0	17.0	17.0
4959	not seen		
4961	15.0	14.0	14.5-
4966	3 stars mistaken for elongated neb.?		
4969	16.5-	16.5-	16.5-
4973	15.5-	16.0	15.8
4978	16.0	16.0	16.0

Neb. I.C.	Mag.1	Mag.2	Mean
4979	17.5-	16.5-	17.0
4983	14.0	13.5-	14.0
4984	17.0	17.0	17.0
4987	17.0	17.0	17.0
4994	15.5-	15.5-	15.5-
4995	15.0	15.5-	15.2
5021	15.0	14.0	14.5-
N.N.	two stars		
~~+~~	"	"	
~~+~~	"	"	
1	17.5-	17.5-	17.5-
2	17.0	17.0	17.0
3	17.5-	17.5-	17.5-
4	16.0	16.5-	16.3
5	15.5-	15.5-	15.5-

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1930phae.proj.2340M

7.12413 λ280 β+32

Neb.	Mag.1	Mag.2	Mean
H13	16.0	16.0	16.0
~~H14~~	two	stars	
327 1343-3134.8	14.5	14.5	14.5
H15	16.0	17.0	16.5
H17	16.0	17.0	16.5
H18	15.5	16.5	16.0
332 1341-3222.1	14.0	13.5	13.7
529	16.5	17.0	16.8
528	16.0	16.5	16.2
529	15.5	16.0	15.8
H19	16.0	16.5	16.2
H20	16.0	17.0	16.5
H21	15.5	16.5	16.0
H22	~~16.0~~	star	
H23	15.0	15.0	15.0
H24	15.5	15.5	15.5
333 1342-3157.8	14.5	14.5	14.5
dt	15.5	16.0	15.8
bg	16.0	16.5	16.2
du	16.5	17.0	16.8
H25	16.0	16.0	16.0
337 1342-3144.3	14.0	14.0	14.0
H26	16.0	16.5	16.2
H27	16.5	17.0	16.8
H28 1342-3116.6	16.5	16.5	16.5
ba	16.5	17.0	16.7
dv	15.5	16.0	15.8
335	16.0	16.0	16.0
bw	16.0	16.5	16.2
336	15.5	16.0	15.8

Neb.	Mag.1	Mag.2	Mean	
338	16.0	16.0	16.0	Double neb.
339 1343-3056.0	16.5	15.0	15.7	
518	star			
519	16.5	16.5	16.5	
520	16.5	17.0	16.8	
521	15.5	16.0	15.7	
by	16.0	16.0	16.0	
H30	16.5	16.5	16.5	
389	15.0	15.0	15.0	
H31	16.5	17.0	16.8	
H34	16.0	16.5	16.2	
H35	14.5	15.0	14.8	
H36	16.0	17.0	16.5	
H37 1343-3039.2	14.5	15.0	14.7	
H38	16.0	17.0	16.5	
441	15.0	15.0	15.0	
H43	16.5	17.0	16.8	
H42	17.5	17.5	17.5	
H44	16.0	16.0	16.0	
388 1343-3039.9	14.0	14.5	14.2	
390 1343-3039.4	14.0	14.0	14.0	
510	16.5	16.5	16.5	
511	16.5	17.5	17.0	
512	16.0	16.0	16.0	
513	17.0	17.0	17.0	
514	16.5	17.5	17.0	
500	16.5	17.5	17.0	
502	16.0	17.0	16.5	
457	14.0	14.0	14.0	
458	15.0	15.5	15.3	
456	15.5	15.0	15.2	

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H. 12413

Neb.	Mag. 1	Mag. 2	Mean
H93	13.5	14.0	13.8
H89	15.0	15.0	15.0
H92	16.5	17.0	16.7
356	15.5	16.0	15.8
357 1342 − 3818.7	14.0	14.0	14.0
H88	16.0	16.0	16.0
352	14.5	15.5	15.0
H89	16.0	17.0	16.5
366	15.0	15.0	15.0
355 N.5304	12.5	13.5	13.0
H60	16.5	16.0	16.2
H61	14.5	15.0	14.8
348 1342 − 3001.8	15.0	15.0	15.0
H63	16.5	17.0	16.7
H62	16.0	16.5	16.8
347	16.5	16.5	16.5
H50	17.0	17.5	17.2
345E 1342 − 3015.3	15.5	16.0	15.8
345d	16.0	16.5	16.2
345c	16.5	16.5	16.5
345b	16.0	16.5	16.3
345a	16.0	16.0	16.0
447 1342 − 3618.6	15.5	15.5	15.5
H46	16.0	16.5	16.2
341 1341 − 3926.3	(12.0)	13.5 / 14.0	13.8
H44	16.5	17.0	16.7
H49	16.0	16.5	16.3
346 1341 − 3906.9	14.5	15.5	15.0
H64	16.0	17.0	16.5
H95	16.5	17.5	17.0

Neb.	Mag. 1	Mag. 2	Mean
H94	17.0	17.5	17.2
H96	16.0	16.5	16.3
H97	16.5	17.0	16.7
H98	17.5	17.5	17.5
H99	16.8	16.5	16.3
500	16.0	16.5	16.2
342b	16.0	17.0	16.5
342a 1340 − 3022.4	16.5	17.0	16.8
501	16.5	17.0	16.7
503	17.0	17.5	17.3
504	16.5	16.5	16.5
343 1338 − 3120.3	15.0	15.5	15.2
H93	16.5	17.0	16.8
H92	17.0	17.5	17.2
365 IC. 4324	14.5	14.5	14.5
364	15.5	15.5	15.5
351a	14.5	14.5	14.5
351b N.5291	13.5	13.5	13.5
350a	14.5	14.5	14.5
349	15.0	15.5	15.3
353 N.5298 1342 − 2951.7	13.5	14.0	13.7
351b	17.5	17.5	17.5
H65	16.0	16.5	16.3
354	13.0	13.5	13.2
359	15.5	16.0	15.8
360	15.5	15.5	15.5
362 IC. 4229	14.0	14.0	14.0
361 IC. 4327	14.0	14.5	14.2
363	14.5	14.0	14.3
H66	15.5	16.0	15.7

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A.12415

Neb.	Mag.1	Mag.2	Mean
H67	14.5	14.5	14.5
H02 I.C.4321 1339-2932.6	15.0	15.0	15.0
368 1339-2933.7	15.5	15.5	15.5
H68	15.0	15.5	15.3
H69	16.5	17.0	16.7
369	15.5	15.5	15.5
370	15.5	15.5	15.5
H64	17.0	17.0	17.0
379a	15.5	16.0	15.8
H62	star		
380	15.5	16.0	15.7
H63	17.0	18.0	17.5
372	15.5	16.0	15.8
377b	15.5	15.5	15.5
378 I.C.4325	14.0	14.0	14.0
375	14.5	14.5	14.5
376d	15.5	16.0	15.7
H66	16.0	16.5	16.3
H71	15.5	16.0	15.7
400 I.C.4326	14.0	14.5	14.3
470	15.0	15.0	15.0
H69	15.5	15.5	15.5
381	15.0	15.0	15.0
382 I.C.4314	14.0	14.5	14.2
384 I.C.4322	15.5	15.5	15.5
ck	16.5	16.5	16.5
383	14.5	14.5	14.5
100A	16.0	17.0	16.5
1009	16.0	16.5	16.3
386 I.C.4330	14.0	14.0	14.0

Neb.	Mag.1	Mag.2	Mean
385	16.0	16.5	16.2
H93	16.0	17.0	16.5
H74	14.0	14.5	14.3
1010	15.5	16.5	16.0
1007	16.0	16.0	16.0
1006	17.0	17.5	17.2
331	15.5	15.5	15.5
330	16.0	16.0	16.0
329	16.0	16.0	16.0
328	15.0	15.0	15.0
327	16.0	17.0	16.5
602	17.0	17.5	17.3
326 I.C.4316	15.0	15.5	15.2
l	16.5	16.5	16.5
478	15.5	16.5	16.0
600	17.0	17.0	17.0
323a	15.0	15.5	15.3
596	16.5	17.0	16.7
324 I.C.4309	15.0	15.5	15.3
591	16.5	17.5	17.0
590	16.5	17.5	17.0
592	16.0	17.0	16.5
594	16.0	16.5	16.3
585	17.5	17.5	17.5
bb N.5264	(12.0)	14.0 13.5	13.7
328b	16.0	16.5	16.3
489	(15.5)	16.5 17.0	16.7
bm	15.5	16.0	15.8
H76	15.5	16.0	15.7

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A. 12413

Neb.	Mag. 1	Mag. 2	Mean
bg	16.0	16.5	16.3
4F5	16.0	17.0	16.5
372 E.C. 4319	13.5	14.5	14.0
373	15.0	16.0	15.5
cc	15.5	16.0	15.7
4F1	17.5	17.5	17.5
479	16.5	17.5	17.0
4F0	15.5	16.0	15.8
322	16.0	17.0	16.5
405	(16.0)	17.0 17.5	17.2
367	16.5	16.5	16.5
366 1337-2951.7	15.0	15.5	15.3
490	16.0	17.0	16.5
406	16.5	17.5	17.0
491	16.0	16.5	16.2
584	(15.5)	17.0 17.5	17.5
583	17.5	17.0	17.3
321 1336-3015.4	14.0	14.0	14.0
320b	17.5	17.5	17.5
320a	16.5	16.5	16.5
502	17.0	17.0	17.0
509	17.5	17.5	17.5
505	17.5	17.0	17.2
506	17.0	16.5	16.8
319 1336-3031.9	15.5	15.5	15.5
582	18.0	17.0	17.5
581	18.0	17.5	17.7
317	17.0	17.0	17.0
316 1336-3042.9	16.0	16.0	16.0
564	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean
315	17.0	16.5	16.8
563	17.5	17.5	17.5
314	15.0	15.0	15.0
313 N. 5253	Mag. in group of 6 test nebulae		
312	16.0	16.0	16.0
553	16.5	16.5	16.5
552	16.5	17.0	16.7
311	17.0	17.0	17.0
550	16.5	17.5	17.0
309 1334-3135.0	17.0	16.0	16.5
310 1332-3135.7	16.0	16.0	16.0
307	15.5	15.5	15.5
306	17.0	16.5	16.8
549	16.5	17.0	16.7
548	17.5	17.5	17.5
308 1335-3129.9	15.0	15.0	15.0
404	16.5	16.0	16.3
551	16.5	16.0	16.2
516	18.0	17.0	17.5
515	18.0	17.5	17.8
bf	18.0	18.0	18.0
517	17.0	16.5	16.7
337 1338-3119.6	15.5	15.0	15.3
522	17.0	17.5	17.2
305	16.0	16.0	16.0
304	17.0	16.5	16.8
523	17.0	17.0	17.0
523	17.0	17.0	17.0
294b	17.0	16.5	16.7
294a 1335-3147.7	16.5	16.0	16.3

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1930phae.proj.2344M

A. 12419

Oleb.	Mag. 1	Mag. 2	Mean
302	16.5	16.0	16.2
547	17.0	17.5	17.3
524	17.0	17.0	17.0
301 1331-3204.3	16.0	16.0	16.0
525	17.0	17.0	17.0
526	17.5	17.5	17.5
300 1337-3224.9	16.0	15.5	15.7
298	17.5	16.5	17.0
536	16.5	16.0	16.3
297 1335-3209.1	14.5	15.0	14.7
294 1334-3208.1	14.0	14.5	14.3
292	16.0	15.5	15.7
293	16.5	16.5	16.5
530	16.5	16.5	16.5
532	16.5	17.0	16.8
531	16.5	17.0	16.7
533	15.5	16.0	15.8
799	15.0	15.0	15.0
798	16.5	16.0	16.2
797	16.5	16.5	16.5
796 1330-3230.2	15.5	15.0	15.3
213 1331-3230.2	14.0	14.0	14.0
535	17.0	17.5	17.2
534	17.0	17.0	17.0
214	15.5	15.5	15.5
217	16.5	16.0	16.3
537	17.5	17.0	17.2
538	17.5	17.5	17.5
539	18.0	17.5	17.8
218 1331-3157.1	16.0	16.0	16.0

Oleb.	Mag. 1	Mag. 2	Mean
	16.0	16.0	16.0
215 1329-3201.7	16.5	16.5	16.5
771	17.0	17.0	17.0
770	17.5	17.0	17.2
769	17.5	18.0	17.8
541	16.5	17.5	17.0
544	16.5	17.5	17.0
545	17.0	17.0	17.0
546	15.0	16.0 (17.0)	15.5
295 1333-3142.9	15.0	14.5	14.7
219	16.5	16.0	16.3
234 1332-3054.4	15.0	15.5	15.2
562	17.0	17.5	17.2
563	18.0	18.0	18.0
566	16.0	16.0	16.3
567	17.0	17.0	17.0
233	16.5	17.0	16.7
560	17.0	17.5	17.2
569	17.5	17.0	17.3
570	16.5	17.0	16.7
571	16.5	16.0	16.3
572	16.5	16.0	16.2
573	16.0	15.5	15.8
574 1332-3015.5	14.5	15.0	14.7
236	17.0	16.5	17.0
575	17.0	17.0	17.0
237	16.5	17.0	16.8
576	16.5	17.0	16.7
243.8 1332-3013.0	16.0	16.5	16.3
577	16.5	16.5	16.5
578	17.5	17.5	17.5

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R. 12 41 0

Oleb.	Mag. 1	Mag. 2	Mean
241 1333.-30 16.1	14.0	14.0-	14.2
540	17.0	16.0-	16.8
579	17.0	17.0	17.0
243a	17.0-	17.0-	17.0-
242	16.0-	16.0-	16.0-
244 1332-3003.6	17.0	17.0	17.0
240	16.0-	16.0	16.2
245 1331-2954.4	17.0	17.0	17.0
249	16.0-	16.0-	16.0-
626	17.0	17.0	17.0
627	17.0-	17.0-	17.0-
628	17.0-	18.0	17.8
629	17.0-	17.0-	17.0-
630	17.0-	17.0-	17.0-
631	17.0-	18.0	17.7
246 1330-2954.8	16.0-	16.0-	16.0-
625 1331-2952.1	14.0-	16.0-	15.0
247	17.0	17.0	17.0
586	17.0	17.0	17.0
587	17.0	17.0	17.0
588	16.0-	16.0	16.8
589	17.0-	17.0-	17.0-
252	15.0	15.0-	15.2
253	16.0-	16.0-	16.0-
259a	17.0-	17.0	17.3
259b	17.0	17.0	17.0
anne	17.0-	17.0-	17.0-
1005	17.0-	17.0	17.2
595	17.0-	17.0	17.3
597	17.0-	17.0-	17.0-

Oleb.	Mag. 1	Mag. 2	Mean

omitted by mistake

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N. 12415

Neb.	Mag. 1	Mag. 2	Mean
598	17.5	17.0	17.2
599	17.0	17.0	17.0
272	16.5	16.0	16.3
267	16.5	16.5	16.5
266 a	17.0	17.0	17.0
266 b	17.0	17.0	17.0
270 1330 − 28 45.8	16.0	16.5	16.2
271 I.C. 4295	15.0	15.5	15.3
615	16.5	16.5	16.5
269	16.5	16.0	16.2
616	16.5	17.5	17.0
617	17.5	17.5	17.5
264	16.5	16.0	16.3
618	17.5	17.5	17.5
263	17.0	17.0	17.0
620	17.5	17.5	17.5
bf	17.0	17.5	17.2
273 1327 − 28 29.4	16.5	16.0	16.3
204	16.5	16.5	16.5
605	17.0	17.5	17.2
604	17.0	17.5	17.3
603	16.5	17.0	16.7
606	16.5	16.5	16.5
279 I.C. 4294	15.5	15.5	15.5
15 I.C. 4302	15.0	15.5	15.3
280	16.5	16.5	16.5
281	16.5	16.5	16.5
289	16.5	17.0	16.7
609	star		
287	16.5	16.5	16.5
288	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean
610	17.5	17.5	17.5
286	15.5	16.0	15.8
332	15.0	16.0	15.5
608 I.C. 4290	15.0	15.0	15.0
284	16.5	16.0	16.2
283	16.0	17.0	16.5
bl	16.5	16.5	16.5
74 a	16.5	16.5	16.5
74 b	15.5	15.5	15.5
982	17.0	17.0	17.0
983	16.5	16.0	16.3
618	star		
278	17.5	17.5	17.5
279	17.0	17.5	17.2
275	16.5	17.0	16.8
276	16.0	16.5	16.2
614	16.5	17.0	16.8
br 1327 − 28 26.6	16.5	16.5	16.5
274	16.5	16.5	16.5
188	15.5	15.5	15.5
279a	17.0	17.0	17.0
279b	17.5	17.0	17.2
71	16.5	16.0	16.3
by	16.5	16.0	16.2
262	17.0	17.5	17.3
261	16.0	16.0	16.0
257	16.5	16.0	16.2
257a	16.5	17.0	16.8
257b	17.0	16.5	16.7
620	17.5	17.5	17.5

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17.12413⁻

Oleb.	Mag.1	Mag.2	Mean
23·6	16.0	15:5⁻	15:8
23·5	16.5⁻	16.5⁻	16.5⁻
621	16.5⁻	16.5⁻	16.5⁻
46 e	17.5⁻	17.5⁻	17.5⁻
46 b	16.0	15.5⁻	15.7
46 d	16.5⁻	17.0	16.8
46 a	14.0	14.0	14.0
46 c	16.5⁻	16.5⁻	16.5⁻
68 b	16.5⁻	17.0	16.7
HF	16.0	16.0	16.0
23·1	17.0	17.5⁻	17.3
1083	16.5⁻	16.5⁻	16.5⁻
168	17.0	17.0	17.0
1004	17.5⁻	17.0	17.2
622	17.0	17.5⁻	17.3
169	16.5⁻	16.0	16.2
250	17.0	16.5⁻	16.8
1327-29414			
624	16.5⁻	16.0	16.2
623	17.0	17.0	17.0
632	17.0	17.5⁻	17.3
633	17.5⁻	17.5⁻	17.5⁻
634	17.5⁻	16.5⁻	17.0
635	17.0	17.0	17.0
157	17.5⁻	17.0	17.2
166	17.0	17.0	17.0
165	16.5⁻	16.5⁻	16.5⁻
164	17.0	17.0	17.0
1082	17.0	17.0	17.0
876	17.0	17.0	17.0
778	17.0	17.0	17.0
779	17.0	17.0	17.0
120	14.0	14.5⁻	14.3
1327-32412.9			
219	16.0	16.0	16.0
794	15.5⁻	16.0	15.7
793	16.5⁻	15.5⁻	16.0

Oleb.	Mag.1	Mag.2	Mean
792	15:0	14.5⁻	14.8
791	(13.5)	11.5⁻ 11.0⁻	11.0⁻
N.5193			
789	16.5⁻	17.5⁻	17.0
78f	16.5⁻	16.0	16.2
787	16.0	16.0	16.0
786	16.5⁻	16.0	16.3
785⁻	16.5⁻	16.0	16.2
116a	16.5⁻	16.0	16.3
116b	16.5⁻	16.5⁻	16.5⁻
116c	17.0	17.0	17.0
119c	16.0	15:5⁻	15:7
783	16.5⁻	16.5⁻	16.5⁻
784	16.0	15:5⁻	15.8
68a	16.0	15.5⁻	15.7
68b	15:5⁻	15.5⁻	15.5⁻
113a	16.0	16.5⁻	16.3
119a	17.0	17.0	17.0
119b	17.5⁻	17.0	17.2
202	15:0	15:0	15:0
115	17.0	16.5⁻	16.8
116	16.5⁻	16.0	16.2
806	17.5⁻	17.0	17.3
40	10.5::	10.5::	10.5::
N.5161			
801	16.0	16.0	16.0
ag	17.0	17.5⁻	17.2
803	16.5⁻	15.5⁻	16.0
11c	16.5⁻	17.0	16.8
931	16.5⁻	16.5⁻	16.5⁻
113b	16.5⁻	16.5⁻	16.5⁻
113c	17.0	17.0	17.0

Oleb. too bt. for an A. plate

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H. 12415

Neb.	Mag. 1	Mag. 2	Mean
113d	17.0	17.0-	17.2
934	16.0-	16.0	16.3
78	16.0-	15.0-	16.0
77	15.0-	16.0-	16.0
933	16.0	16.0	16.0
ab	15.0-	15.0-	15.0-
077	17.0	16.0-	16.7
160 1823-3602.3	16.0	15.0-	15.8
161	16.0	16.0-	16.2
162	17.0	17.0-	17.3
aw	17.0-	18.0	17.7
105 f	17.0	17.0-	17.3
15.0-	16.0-	16.0-	16.0-
156	16.0-	16.0-	16.0-
31 H 4247	14.0	14.0	14.0
962	17.0	17.0	17.0
961	16.0	15.0-	15.7
ac	16.0-	16.0	16.3
964	16.0-	16.0-	16.0-
963	17.0	16.0-	16.7
100	16.0-	16.0-	16.0-
99	15.0	15.0-	15.3
ad	17.0	17.0	17.0
26	15.0-	16.0	15.7
af	17.0-	17.0-	17.0-
21	16.0	16.0	16.0
20 N.5135	11.0-	12.0-	12.0
22	15.0-	16.0	15.8
23	16.0-	16.0-	16.0-
973	16.0-	16.0	16.2

Cont. on p. 85, 1st column.

3

Neb.	Mag. 1	Mag. 2	Mean
75 b	16.0	16.0	16.0
985	16.0-	16.0-	16.0-
183	17.0	17.0	17.0
184	17.0	17.0	17.0
185	17.0-	17.0-	17.0-
at	17.0-	17.0-	17.0-
186	17.0	17.0	17.0
187	17.0	16.0-	16.8
984	17.0	17.0-	17.2
106	16.0-	16.0-	16.0-
180 b	17.0-	17.0	17.3
180 a	17.0-	17.0	17.2
177 c	16.0	16.0-	16.3
177 b	16.0-	17.0	16.7
177 a	16.0-	17.0	16.8
176	17.0	16.0-	16.7
105 c	17.0-	17.0-	17.0-
105 b	17.0	17.0-	17.3
105 a	17.0-	17.0	17.2
174	16.0-	16.0	16.3
181	16.0-	16.0-	16.0-
17 N.5153	14.0	14.0	14.0
18 N.5152	15.0	15.0	15.0
182 b	16.0-	16.0	16.2
182 a	17.0	17.0	17.0
17 N.5150	13.0-	13.0-	13.0-
986	17.0	16.0-	16.8
987	17.0	17.0	17.0
988	15.0-	16.0	15.7
al	16.0-	17.0	16.8

cont. on p. 85, last col.

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2 → 4

17.1241-

Neb.	Mag.1	Mag.2	Mean
103 I.4248	14.0	14.0	14.0
972	17.0-	17.5-	17.5-
102	17.0	16.5-	16.7
ag	17.5-	17.0	17.3
25 1321-2937.4	16.5-	16.0	16.2
101	17.0	17.0	17.0
971	17.0	16.5-	16.8
163	17.0	16.5-	16.7
47a	17.0	17.0	17.0
47b	17.0-	17.5-	17.5-
47c I.4269	15:0	15:0	15:0
47d	17.0	17.5-	17.3
475	17.2	17.0	17.0
167	17.0	17.5-	17.2
190	17.0	17.0	17.0
171	16.0-	16.5-	16.5-
173	17.5-	17.0	17.3
69a I.4272	17.0	16.5	16.7
1011	17.0	16.5-	16.8
1014	17.0	17.0	17.0
ww	16.5-	16.5-	16.5-
69b	16.0	16.0	16.0
69a I.4275	17.0	17.5-	17.2
179	17.0	16.0	16.5-
178	17.0	17.0	17.0
75d	16.0	17.0-	16.3
75c	16.0	16.0	16.0
70a	16.5-	16.5-	16.5-
70b	16.5-	16.0	16.2
75a	16.0	15:5-	15.8

Neb.	Mag.1	Mag.2	Mean
ane	17.0	17.5-	17.2
dd	17.0	17.5-	17.3
975	star		
14	15:0	15:5-	15:2
16 I.4251	15:0-	16.0	15:8
104c	17.0	16.5-	16.7
104b	17.0	16.5-	16.7
104a	16.0	16.0	16.0
974	star		
19-	15:0	15:0	15:0
ag	star		
105	16.5-	16.0	16.3
aa	17.0	16.5-	16.7
201	17.5-	17.5-	17.5-
189	16.5-	16.5-	16.5-
190	16.5-	16.0	16.3
976	17.0	16.5-	16.7
12	16.5-	16.0	16.3
w	16.5-	16.5-	16.5-
ane	17.0	17.0	17.0
191	16.0	16.0	16.0
192a	16.5-	17.0	16.7
192b	17.0	17.5-	17.3
~~192c~~	star		
193	16.5-	16.5-	16.5-
~~194~~	star		
195-	17.0	17.0	17.0
196	17.0	17.0	17.0
197 I.4280	16.0	16.0	16.0
41	15:5-	15:5-	15:5-

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Neb.	Mag. 1	Mag. 2	Mean
H2	15.0	15.0	15.2
198	16.0	16.0	16.0
199	16.0	16.0	16.3
200	15.0	15.0	15.0
201	16.0	16.0	16.2
202	16.0	16.0	16.0
~~208~~	star		
979	16.0	16.0	16.0
978 I.C. 4253	15.0	15.0	15.3
980	16.0	16.0	16.2
bc	16.0	16.0	16.3
bf I.C. 4261	15.0	16.0	15.0
204	17.0	17.0	17.0
HH	15.0	15.0	15.0
981 I.C. 4276	15.0	15.0	15.2
H5 N.G.C. 182	13.0	14.0	13.8
206 I.C. 4262	16.0	16.0	16.0
111	15.0	15.0	15.0
1003	16.0	16.0	16.0
g	15.0	16.0	15.7
110	16.0	16.0	16.3
ap	16.0	17.0	17.0
ao	17.0	17.0	17.0
104	16.0	16.0	16.0
977	16.0	16.0	16.0
f	17.0	17.0	17.0
a	16.0	16.0	16.0
1	16.0	16.0	16.0
107	16.0	17.0	16.7
1002	16.0	16.0	16.0

A. 12 41.5

Neb.	Mag. 1	Mag. 2	Mean
13	16.5	17.0	16.8
ay	16.0	16.0	16.2
2	14.0	14.0	14.0
c	17.0	17.0	17.0
11	14.0	14.0	14.0
979	16.0	17.0	17.0
3	16.5	16.5	16.3
969	15.0	16.0 (17.2)	15.7
968	15.0	16.0	15.8
970	18.0	17.0	17.0
30	16.0	16.0	16.0
29c	15.0	15.0	15.2
29b	16.0	16.0	16.3
29a	16.0	16.0	16.0
965	16.0	16.0	16.2
27 N.G.C. 1319 - 294P.7	12.0	12.0	12.0
28a N.G.C. 1319 - 294P.2	14.0	14.0	14.0
966 I.C. 4233	16.0	16.0	16.3
967	16.0	16.0	16.2
28	16.0	17.0	16.8
957	16.0	16.0	16.0
90	17.0	17.0	17.2
32 1317 - 300.3	14.0	14.0	14.0
960	17.0	17.0	17.3
29	17.0	17.0	17.0
93	16.0	16.0	16.0
950	16.0	17.0	16.7
904	17.0	17.0	17.0
94	17.0	17.0	17.3
994	16.0	16.0	16.0
995	15.0	15.0	15.2

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4.12415

Neb.	Mag.1	Mag.2	Mean	Neb.	Mag.1	Mag.2	Mean
993	17.0	17.0	17.0				
992	16.0	16.0	16.0				
990	16.0	16.0	16.0				
991	16.0	16.0	16.0				
997	15:0	15:0	15.3				
996	16.0	16.0	16.0				
6	15:0	14.0	14.5				
7	(14.0)	16.0 17.0	16.7				
8	16.0	16.0	16.3				
936	15:0	16.0	16.0				
41	15:0	16.0	15:0				
4	14.0	14.0	14.0				
60 (N5110P)	15:0	14.0	14.7				
p (N5114) 1319-3N5.4	13.0	12.0	12.5				
79	15:0	16.0	15.8				
935	16.0	16.0	16.0				
61	16.0	16.0	16.0				
59	14.0	14.0	14.0				
76	15:0	15:0	15:0				

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1930phae.proj.234M

Nebulae Surveys — See Book 1a

A 14222 (Group I)

Neb.	Mag. 1	Mag. 2	Mean	
I 4744	16.0	16.0	16.0	
I 4749	14.0	14.0	14.0	
46	18.0	18.0	18.0	
47	17.0	17.5-	17.0	
48	16.5-	17.0	17.0	
49	15.5-	15.5-	15.5	
50	17.0	17.0	17.0	
473	17.0	17.5-	17.0	
90	15.0	15.0	15.0	mag. of this neb. interpolated on 914253 as defect covers nebula
91	18.0	18.0	18.0	
92	17.5-	17.5-	17.5-	
93	17.5-	18.0	18.0	
I 4765	13.0+	13.0+	13.0+	
472	15.0	15.0-	15.0	
94	14.5-	14.0	14.5-	
95	16.5-	16.0	16.0	
102	16.5-	16.5-	16.5-	
102a	17.5-	17.5-	17.5-	
I 4764	14.0	14.0	14.0	
I 4767	14.0	14.0	14.0	
460	18.0	18.0	18.0	
87	17.5-	18.0	18.0	
88	16.5-	17.0	16.5	
89	13.0	13.0+	13.0+	
464	17.5-	17.5-	17.5-	
84	18.0	18.0	18.0	
85	17.5-	17.5-	17.5	
86	17.5-	18.0	18.0	
467	18.0	18.0	18.0	
466	17.5-	18.0	17.5	
I 4770	16.0	16.0	16.0	

Neb.	Mag. 1	Mag. 2	Mean	
464	18.0	18.0	18.0	
463	18.0	18.0	18.0	
462	18.0	18.0	18.0	
461	18.0	18.0	18.0	
470	18.0	18.0	18.0	
83	18.0	17.5-	18.0	
I 4771	14.0	14.0	14.0	
469	18.0	18.0	18.0	
99	16.5-	17.0	16.5-	
459	17.5-	17.5-	17.5-	
460	18.0	18.0	18.0	
82	16.0	17.0	16.5-	
458	17.5-	17.5-	17.5-	
456	18.0	18.0	18.0	
454	17.0	17.0	17.0	
103	17.5-	17.0	17.5-	
453	18.0	18.0	18.0	
102	17.0	17.0	17.0	
457	18.0	17.5-	17.5-	
447	17.0	17.0	17.0	
100	15.5-	16.5-	16.0	
101	17.0	16.5-	17.0	
448	18.0	18.0	18.0	
449	17.5-	18.0	17.5-	
450	18.0	18.0	18.0	
451	16.0	16.0	16.0	
452	18.5-	18.5-	18.5-	
453	18.5-	18.0	18.5	
78	18.0	18.0	18.0	
78a	18.5-	18.0	18.0	poss. to be found

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R 14222 (Group II)

Neb.	Mag. 1	Mag. 2	Mean
79	18.0	18.0	18.0
414	16.0	16.0	16.0
80	18.0	18.0	18.0
415	18.0	18.0	18.0
87	17.0	17.0	17.0
416	18.0	18.0	18.0
I 4779	15.0	14.0	14.5
417	18.0	17.0	17.5
418	17.0	17.0	17.0
419	18.0	18.0	18.0
420	17.0	17.5	17.5
421	18.0	18.0	18.0
422	18.0	18.0	18.5
423	17.0	17.0	17.5
424	18.0	18.0	18.0
425	18.0	18.0	18.0
426	18.5	18.0	18.5
427	18.0	18.0	18.0
428	18.0	18.0	18.0
122	17.0	17.0	17.5
433	18.0	17.0	18.0
434	18.0	18.0	18.0
435	18.0	18.0	18.5
436	17.0	17.0	17.0
429	18.0	18.0	18.0
430	18.0	18.0	18.0
431	18.0	18.0	18.0
432	15.0	15.0	15.0
I 4760	16.0	16.0	16.0
424	18.0	18.0	18.0

Neb.	Mag. 1	Mag. 2	Mean
441	17.5	17.5	17.5
441	18.0	18.0	18.0
442	18.0	18.0	18.0
443	17.0	17.0	17.0
477	18.0	18.0	18.0
478	18.0	18.0	18.0
479	18.0	18.0	18.0
440	17.0	17.0	17.0
111	16.0	16.0	16.0
112	17.0	18.0	18.0
476	18.0	18.0	18.0
477	18.0	18.0	18.0
114	17.0	18.0	17.5
478	17.0	17.0	17.0
113	17.0	17.0	17.0
474	17.0	17.0	17.0
I 4759	14.0	14.0	14.0
445	18.0	18.0	18.0
109	17.0	17.0	17.0
444	17.0	17.0	17.0
107	16.0	16.0	16.5
440	18.0	18.0	18.0
446	18.0	18.0	18.0
96	17.0	17.0	17.0
I 4769	13.0	13.0	13.0
97	17.0	16.0	17.0
98	18.0	18.0	18.0
I 4766	15.0	15.0	15.0
471	17.0	17.0	17.0
110	18.0	18.0	18.0

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A14222 (Group I)

Neb.	Mag. 1	Mag. 2	Mean
103	17.0	17.0	17.0
H38	18.5	18.0	18.0
H39	18.5	18.5	18.5
H37	18.0	18.5	18.5
104	17.0	17.0	17.0
106	18.5	18.0	18.0
H40	17.5	17.5	17.5
H41	16.5	16.5	16.5
H42	18.0	18.0	18.0
H43	18.0	18.0	18.0

13 neb. in Group I including all IC's

Group II

141	17.5	18.0	18.0
142	16.5	16.5	16.5
143	17.0	17.0	17.0
144	18.5	18.0	18.0
145	16.5	16.5	16.5
146	17.0	17.0	17.0
147	18.0	18.0	18.0
148	18.0	18.0	18.0
149	18.0	18.0	18.0
150	18.0	18.0	18.0
151	18.0	18.0	18.0
152	17.0	17.0	17.0
153	18.5	18.0	18.5
154	15.5	15.5	15.5
155	18.5	18.5	18.5
156	18.0	18.0	18.0
157	18.0	18.0	18.0
158	18.0	18.0	18.0

(Group II)

Neb.	Mag. 1	Mag. 2	Mean
H87	18.5	18.5	18.5
H88	18.0	18.0	18.0
H89	18.0	18.0	18.0
H90	18.0	18.0	18.0
H91	18.0	18.0	18.0
H92	18.5	18.0	18.0
H93	18.0	18.0	18.0
H94	18.0	18.0	18.0
H95	18.5	18.5	18.5
H96	18.0	18.0	18.0
H97	18.5	18.5	18.5
H98	18.5	18.5	18.5
H99	18.5	18.0	18.0
500	17.5	17.5	17.5
501	18.0	18.0	18.0
502	18.0	18.0	18.0
503	18.0	18.0	18.0
504	18.5	18.5	18.5
505	18.5	18.0	18.5
506	18.0	18.0	18.0
507	18.5	18.0	18.0
508	18.0	17.5	18.0
509	18.5	18.5	18.5
510	18.5	18.0	18.0

42 neb. in Group II

7X 1946 (Group I)

I H764

H765

H766

H767

H769

H770

I Ca to finish for plate on 7X plate. Setting focus on H plate. To be finished

1930phae.proj.234CM

A4749 (Group)

Neb.	Mag. 1	Mag. 2	Mean
120	18.0	18.0	18.0
93	17.0-	17.0-	17.0-
119	18.0	18.0	18.0
I4962	16.0	17.0	16.5-
19	16.5-	16.5-	16.5-
20	17.0-	17.0-	17.0-
43	17.0	17.0-	17.0
N6872	13.0-	13.0-	13.0-
I4970	15.0	14.0-	15.0
30	17.0	17.0-	17.0
I4960	15.0	15.0	15.0
H5-	17.0-	17.0-	17.0-
I4967	15.0-	15.0	15.0-
I4971	17.0	16.0-	16.0-
90	16.0	16.0	16.0
H2=117	17.0-	17.0	17.0-
H1	16.0-	16.0-	16.0-
H0	16.0-	17.0	16.5-
117=H2			
I4981	16.0-	16.0	16.0-
36	17.0	16.0-	16.5-
N6880	14.0-	15.0	15.0
118	17.0-	17.0	17.0
N6877	13.5-	14.0	14.0
N6876	12.7 - 44 catalogue of bk. N.G.C's		
I4972	16.0	15.0-	15.0-
40-	17.0	17.0	17.0
I4982	16.0	16.0	16.0
I4985-	15.0-	15.0	15.0-

To be finished

A7374 (Group) See Book 5

Neb.	Mag. 1	Mag. 2	Mean
59			
60			
61			
62			
93			
94			
95-			
96			
I1173:			
1603+1837.2			
I1177			
1601+1833.2			
1601+1828.3			
1601+1829.9			
1601+1826.6			
63			
N6053			
64			
92			
I1180			
I1170-			
N6050-			
N6057:			
I1189			
89			
N6061			
I1191			
I1190			
82			
1601+1821.8			

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A7374 (Group)

Neb.	Mag. 1	Mag. 2	Mean
1602+1817.7			
1601+1818.5			
do			
1601+1820.0			
1601+1817.7			
1601+1814.4	equals N6005-6		
N6005-6			
I 1176			
I 1171			
65			
1559+1816.2			
66			
1600+1811.1			
1601+1813.0			
1601+1813.8			
1602+1809.9			
78			
77			
I 1194			
I 1184			
do			
I 1182			
N6005-0			
1600+1808.0			
N6044			
1559+1809.6			
67			
90			
1559+1801.8			
N6040			

Neb.	Mag. 1	Mag. 2	Mean
N6039			
I 1170			
N6041			
N6042			
91			
74			
75			
I 1181			
1601+1752.6			
I 1178	not seen.		
N6047			
1600+1708.3			
1600+1759.6			
1600+1802.0			
N6045			
N6043			
N6054			
I 1179	probably equals N6005-4		
I 1183			
I 1185			
1602+1759.6			
1602+1803.0			
I 1192			
I 1193			
do			
76			

To be finished

do

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A 1426 0 (Group)

Neb.	Mag. 1	Mag. 2	Mean
Group I			
127			
128			
129			
130			
131			
132			
119			
120			
121			
122			
a			
b			
c			
174			
175			
176			
177			
178			
179			
180			
181			
182			
183			
184			
185			

Neb.	Mag. 1	Mag 2	Mean
Group II			
341			
342			
343			
344			
345			
346			
347			
a			
b			
c			
d			
Group III			
327			
328			
329			
330			
331			
332			
333			
334			
335			
336			
337			
338			
339			
340			
a			
b			

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A1486 (Group)

Neb.	Mag. 1	Mag. 2	Mean
Group IV			
202			
203			
204			
219			
220			
221			
222			
223			
224			
225			
226			
227			
228			
229			
230			
231			
232			
233			
234			
235			
236			
237			
238			
239			
a			
b			

Neb.	Mag. 1	Mag. 2	Mean
Group V			
213			
214			
215			
216			
217			
218			
Group VI			
287			
288			
289			
290			
291			
292			
293			
294			
295			
296			
297			
298			
299			
a			
Group VII			
395			
396			
397			
398			
403			
404			

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A1460 (Group)

Neb.	Mag. 1	Mag. 2	Mean
Group VII (cont.)			
403			
406			
407			
408			
409			
Group VIII			
388			
389			
390			
391			
392			
a			
Group IX			
410			
416			
417			
418			
426			
Group X			
427			
428			
438			
439			
440			
441			
442			
443			
444			

Neb.	Mag. 1	Mag. 2	Mean
445			
446			
447			
448			
449			
450			
451			
452			
453			
454			
455			
456			
457			
458			
459			
460			
461			
462			
463			
464			
465			
466			
467			
468			
469			
470			
471			
472			
473			

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H 1460 (Group)

Neb.	Mag. 1	Mag. 2	Mean
Group II (cont.)			
H74			
H75			
H76			
H77			
H78			
H79			
HF0			
HF1			
HF2			
HF3			
HFH			
HF5			
HF6			
H87			
H88			
H89			
H90			
H91			
H92			
H93			
H94			
H95			
H96			
H97			
502			
503			
504			

Neb.	Mag. 1	Mag. 2	Mean
Group XI			
262			
263			
264			
265			
266			
267			

Nebulae alphabetically numbered only for working in groups - belong to H 1260-H6

To be finished

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1930phae.proj.234.OM

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1930phae.proj.22:DM

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1930phae.pro1.2340M

100

red checked and [outside 9 by 9 degrees
unchecked or [inside

#10-504

Neb.	Mag. 1	Mag 2	Mean	Remarks
27	16.5	16.5	16.5	
26	16.5	16.5	16.5	
47	15.5	15.5	15.5	
46	15.5	15.5	15.5	
~~202~~	~~14.5~~	Rejected		
~~201~~	~~17.0~~	"		
249	16.5	16.5	16.5	
250	16.5	17.0	16.7	
251	16.0	16.5	16.2	
364	16.0	16.5	16.2	
205	16.5	16.5	16.5	
N 448	14.0	13.5	13.7	
200	16.5	16.5	16.5	
203	16.5	17.0	16.7	
204	16.0	16.0	16.0	
198	17.0	16.5	16.7	
202	16.5	16.5	16.5	
365	16.5	16.5	16.5	
366	16.0	16.5	16.2	
252	16.0	16.0	16.0	
248	17.0	17.0	17.0	
360	16.5	17.0	16.7	Nebula?
361	16.0	16.5	16.2	
362	16.5	16.5	16.5	
363	16.0	16.5	16.2	
367	17.0	17.0	17.0	
253	16.0	16.5	16.2	
246	17.0	17.0	17.0	
247	16.0	16.5	16.2	
359	16.5	17.0	16.7	

Neb.	Mag. 1	Mag 2	Mean	Remarks
358	15.5	16.0	15.7	
357	15.5	16.0	15.7	
245	16.5	16.5	16.5	
244	16.0	16.5	16.2	
214	17.5	17.5	17.5	
210	17.5	17.0	17.2	
211	16.5	17.0	16.7	
213	16.0	16.5	16.5	
212	17.0	17.5	17.2	
207	16.5	16.5	16.5	
199	16.5	17.0	16.7	
196	16.5	16.5	16.5	
N 442	15.0	14.5	14.7	
206	17.0	17.5	17.2	
209	16.5	17.0	16.7	
N 450	12.6	(A.A.)	12.6 (A.A.)	
197	15.5	16.0	15.7	Barlow 450?
I 1639	15.0	15.0	15.0	
I 1640	15.5	15.5	15.5	
I 85	15.5	15.5	15.5	
I 1643	16.5	16.5	16.5	
N 426	15.0	14.5	14.7	
N 429	15.0	14.5	14.7	
N 430	14.0	14.0	14.2	
195	16.5	16.5	16.5	
130	17.0	17.5	17.2	Nebula?
49	15.0	15.0	15.2	
48	16.0	16.5	16.2	
45	16.0	16.0	16.2	
44	15.5	15.5	15.5	

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A 1930.4

Neb.	Mag. 1	Mag 2	Mean	Remarks
20	16.5	16.5	16.5	✓
7	16.5	16.5	16.5	✓
6	16.0	16.0	16.0	✓
8	16.5	16.5	16.5	✓
5	16.0	16.5	16.2	✓ Nebula?
9	16.5	16.5	16.5	✓
24	16.5	16.5	16.5	✓
29	16.0	16.0	16.0	✓
30	17.0	16.5	16.7	✓
28	16.5	16.5	16.5	✓
40	17.0	17.0	17.0	✓
41	16.5	16.5	16.5	✓
42	16.5	16.5	16.5	✓
43	16.0	16.0	16.0	✓
50	16.0	16.5	16.2	✓
51	16.0	16.5	16.2	✓
121	16.0	16.5	16.2	✓
122	16.0	16.0	16.0	✓
123	16.5	17.0	16.7	✓
124	16.5	17.0	16.7	✓
125	16.5	16.5	16.5	✓
126	17.0	17.5	17.2	✓
127	16.5	16.5	16.5	✓
128	16.5	16.5	16.5	✓
129	17.0	17.0	17.0	✓
181	16.5	16.5	16.5	✓
182	16.5	16.5	16.5	✓
183	16.0	16.0	16.0	✓
~~184~~	~~16.5~~	Rejected		
185	17.5	17.0	17.2	✓
186	16.0	16.0	16.0	✓

Neb.	Mag. 1	Mag 2	Mean	Remarks
~~194~~	~~16.0~~		Rejected	
189	17.0	17.0	17.0	✓
192	16.5	16.5	16.5	✓
191	16.0	16.0	16.0	✓
190	17.0	16.5	16.7	✓
180	16.5	16.0	16.2	✓
114	16.5	16.5	16.5	✓
113	16.0	16.0	16.0	✓
112	16.0	16.0	16.0	✓
111	16.5	16.5	16.5	✓
110	17.0	17.0	17.0	✓
109	16.5	16.5	16.5	✓
119	16.5	16.5	16.5	✓
120	16.5	16.0	16.2	✓
104	16.5	16.0	16.2	✓
105	16.5	16.5	16.5	✓
106	16.5	16.5	16.5	✓
107	16.0	16.0	16.0	✓
108	16.5	16.5	16.5	✓
118	16.5	16.5	16.5	✓
116	16.0	16.0	16.0	✓
115	16.5	16.5	16.5	✓
117	16.5	16.5	16.5	✓
103	16.5	16.5	16.5	✓
90	16.5	16.5	16.5	✓
91	17.0	17.0	17.0	✓
92	16.5	16.5	16.5	✓
102	16.5	16.5	16.5	✓
101	16.5	16.5	16.5	✓
100	16.5	16.5	16.5	✓

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1930phae.prt.2348M

A1575-4

Neb.	Mag. 1	Mag 2	Mean	Remarks
99	17.0	17.0	17.0	
98	17.0	17.0	17.0	
97	16.5	16.5	16.5	
96	16.5	16.5	16.5	
95	16.5	16.5	16.5	
94	16.5	16.0	16.2	
93	16.5	16.0	16.2	
53	16.0	16.0	16.0	
52	17.0	16.5	16.7	Nebula?
80	17.0	17.0	17.0	
79	16.5	16.5	16.5	
54	16.0	16.0	16.0	
A4	16.0	16.0	16.0	
A3	16.0	15.5	15.7	
A5	16.5	16.0	16.2	
A2	16.5	16.5	16.5	
A1	16.5	16.5	16.5	
A6	16.5	16.5	16.5	
AA	16.5	16.5	16.5	
A9	17.0	17.0	17.0	
21	16.5	16.5	16.5	
22	16.5	16.5	16.5	
23	17.0	17.0	17.0	
39	16.0	16.0	16.0	
57	16.0	16.0	16.0	
32	17.0	16.5	16.7	
56	17.0	17.0	17.0	
55	16.5	16.5	16.5	
31	16.5	16.5	16.5	
36	16.5	16.5	16.5	

Neb	Mag. 1	Mag 2	Mean	Remarks
35	16.5	16.5	16.5	
NH28	11.9	(A.A.)	11.9	(A.A.)
10	17.0	16.5	16.7	
11	17.0	16.5	16.7	
12	16.5	16.5	16.5	
13	16.5	16.5	16.5	
14	16.0	16.0	16.0	
19a	16.0	16.0	16.0	
19b	16.5	16.5	16.5	
20	16.5	16.5	16.5	
1	16.0	16.5	16.2	
2	15.5	15.5	15.5	
37	17.5	17.0	17.2	
73	17.0	16.5	16.7	
IA7	15.5	15.5	15.5	
IA8	15.5	15.5	15.5	
72	16.5	16.5	16.5	
135	16.5	16.5	16.5	
136	16.0	16.5	16.2	
137	16.0	16.0	16.0	
138	16.0	16.0	16.0	
134	16.0	16.5	16.2	
169	16.5	16.5	16.5	
170	16.0	16.5	16.2	Nebula?
171	17.0	17.0	17.0	
141	16.5	16.5	16.5	
75	17.0	16.5	16.7	
74	16.5	16.0	16.2	
76	16.5	16.0	16.2	
77	17.0	16.5	16.7	
139	17.0	16.5	16.7	

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Neb.	Mag. 1	Mag 2	Mean	Remarks
140	17.0	16.5	16.7	
145	17.0	17.0	17.0	
144	16.0	16.0	16.0	
143	17.0	16.5	16.7	
142	16.5	16.5	16.5	
146	15.5	15.0	15.2	
147	17.0	16.5	16.7	
58	16.0	16.0	16.0	
59	17.0	16.5	16.7	
60	16.5	16.5	16.5	
61	15.5	15.5	15.5	
63	15.5	16.0	15.7	
64	16.0	16.0	16.0	
65	16.0	15.5	15.7	
68	16.5	16.5	16.5	
69	16.5	16.5	16.5	
5	16.5	16.5	16.5	
16	16.0	16.0	16.0	
14	16.0	16.0	16.0	
15	16.0	16.0	16.0	
17	16.5	16.5	16.5	
4	16.5	16.0	16.2	
32	16.0	16.0	16.0	
N435	15.5	15.5	15.5	
N445	15.5	15.0	15.2	
155	16.5	16.5	16.5	
156	17.0	17.0	17.0	
157	16.5	16.5	16.5	
158	17.0	16.5	16.7	
148	17.0	17.0	17.2	

Neb.	Mag. 1	Mag 2	Mean	Remarks
152	17.0	17.0	17.0	
153	16.5	16.5	16.5	
150	16.0	16.0	16.0	
151	16.5	16.5	16.5	
70	17.0	16.5	16.7	
71	16.5	16.5	16.5	
154	16.5	16.5	16.5	
149	16.5	16.0	16.2	
66	16.5	16.5	16.5	
67	16.0	16.0	16.0	
162	16.0	16.0	16.0	
164	17.0	16.5	16.7	
163	16.5	16.5	16.5	
166	16.0	16.0	16.0	
167	16.5	16.5	16.5	
168	17.0	17.0	17.0	
62	15.5	16.0	15.7	
34	16.0	16.0	16.0	
33	16.5	16.5	16.5	
72	16.5	16.5	16.5	
304	16.5	16.5	16.5	
305	16.0	16.5	16.2	
317	16.5	17.0	16.7	
500	17.0	16.5	16.7	
502	16.5	16.5	16.5	
561	16.5	16.5	16.5	
571	16.0	16.5	16.2	
572	17.0	17.0	17.2	
579	16.5	17.0	16.7	
580	16.5	16.5	16.5	

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Neb.	Mag. 1	Mag 2	Mean	Remarks
582	16.5	16.5	16.5	✓
583	16.0	16.5	16.2	✓
577	16.5	16.5	16.5	✓
319	16.5	16.0	16.2	✓
320	16.5	16.5	16.5	✓
321	16.0	16.0	16.0	✓
318	15.5	15.5	15.5	✓
N47	14.5	15.0	14.7	✓
I 91	16.0	16.0	16.0	✓
306	16.5	16.5	16.5	✓
302	17.0	17.0	17.0	✓
303	17.0	17.0	17.0	✓
307	16.5	17.0	16.7	✓
308	17.0	17.0	17.0	✓
309	17.0	16.5	16.7	✓
310	16.5	16.5	16.5	✓
311	16.0	16.0	16.0	✓
312	16.0	16.0	16.0	✓
313	16.5	16.5	16.5	✓
314	16.0	16.0	16.0	✓
315	16.5	16.5	16.5	✓
316	16.0	16.0	16.0	✓
499	16.5	16.5	16.5	✓
300	16.5	16.0	16.2	✓
301	16.5	16.5	16.5	✓
299	17.0	17.0	17.0	✓
322	16.5	16.5	16.5	✓
411	16.0	16.0	16.0	✓
413	16.0	16.0	16.0	✓
298	17.0	16.5	16.7	✓

Neb.	Mag. 1	Mag 2	Mean	Remarks
296	17.0	16.5	16.7	✓
292	17.0	16.5	16.7	✓
297	16.5	16.5	16.5	✓
293	16.5	16.5	16.5	✓
294	16.5	16.5	16.5	✓
295	16.5	16.5	16.5	✓
291	16.5	16.5	16.5	✓
290	16.5	16.5	16.5	✓
232	16.0	16.0	16.0	✓
227	16.5	16.5	16.5	✓
160	16.5	16.5	16.5	✓
161	16.5	16.5	16.5	✓
162	16.0	16.0	16.0	✓
159	16.0	16.0	16.0	✓
228	16.5	16.5	16.5	✓
412	17.0	16.5	16.7	✓
323	16.0	16.0	16.0	✓ Nebula?
324	16.5	16.5	16.5	✓
325	16.5	16.5	16.5	✓
326	16.5	16.5	16.5	✓
327	16.0	16.0	16.0	✓
491	16.5	16.5	16.5	✓
490	17.0	16.5	16.7	✓
439	17.0	16.5	16.7	✓
497	17.0	17.0	17.0	✓
492	16.5	16.5	16.5	✓
493	16.5	16.5	16.5	✓
494	16.0	16.5	16.2	✓
498	16.5	16.5	16.5	✓
438	17.0	16.5	16.7	✓
496	16.0	16.0	16.0	✓

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Neb.	Mag. 1	Mag 2	Mean	Remarks
491	16.5	16.5	16.5	
414	16.5	16.5	16.5	
415	16.0	16.0	16.0	
432	16.5	16.0	16.4	
437	14.5	15.0	14.4	
429	16.0	16.0	16.0	
430	15.0	15.5	15.2	
431	17.0	17.0	17.0	
433	16.5	16.5	16.5	
434	17.0	17.0	17.0	
435	16.5	16.5	16.5	
436	16.5	16.5	16.5	
520	16.0	16.0	16.0	
417	17.0	16.5	16.7	
416	16.5	16.5	16.5	
410	17.0	16.5	16.7	
328	16.5	16.0	16.2	
329	17.0	16.5	16.7	
330	16.5	16.5	16.5	
331	16.5	16.5	16.5	
332	16.5	16.5	16.5	
333	16.0	16.0	16.0	
334	16.5	16.5	16.5	
408	16.0	16.5	16.2	
409	16.0	16.5	16.2	
412	16.5	16.5	16.5	
289	16.5	16.5	16.5	
288	17.0	16.5	16.7	
287	17.0	16.5	16.7	
281	16.0	16.0	16.0	

Neb.	Mag. 1	Mag 2.	Mean	Remarks
231	17.0	16.5	16.7	
225	16.0	16.0	16.0	
226	16.5	16.5	16.5	
229	16.5	16.5	16.5	
230	16.5	16.5	16.5	
87	17.0	17.0	17.0	
131	16.5	16.5	16.5	
132	16.5	17.0	16.7	
133	16.5	16.5	16.5	
172	16.5	16.5	16.5	
173	16.0	16.0	16.0	
174	16.5	16.5	16.5	
223	16.0	16.0	16.0	
224	16.5	16.5	16.5	
222	16.5	16.5	16.5	
221	16.5	16.5	16.5	
220	16.5	16.5	16.5	
219	16.5	16.5	16.5	
179	16.5	16.5	16.5	
178	16.5	16.0	16.2	
177	17.5	17.0	17.2	
176	17.0	16.5	16.7	
175	16.0	16.0	16.0	
193	16.5	16.5	16.5	
233	16.5	16.5	16.5	
~~234~~	~~16.5~~	—	—	Rejected
235	16.0	16.0	16.0	
236	16.5	16.5	16.5	
282	16.0	16.5	16.2	
283	16.0	16.5	16.5	

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Neb.	Mag. 1	Mag 2	Mean		Remarks
284	16.5	16.5	16.5	V	
285	16.5	16.5	16.5	V	
343	17.0	16.5	16.7	V	
340	17.5	17.0	17.2	V	
342	17.0	17.0	17.0	V	
341	16.5	16.5	16.5	V	
402	16.0	16.0	16.0	V	
337	16.5	16.5	16.5	V	
339	17.0	17.0	17.0	V	
336	16.0	16.0	16.0	V	
338	16.5	16.5	16.5	V	
335	17.0	16.5	16.7	V	
375	~~17.0~~ 17.0	17.0	17.0	V	
374	15.5	15.5	15.5	V	
376	~~16.5~~ 17.0	16.5	16.5	V	
377	~~17.0~~ 17.0	17.0	17.0	V	
378	16.0	16.0	16.0	V	
379	17.0	16.5	16.7	V	
380	17.0	16.5	16.7	V	
381	17.5	17.0	17.2	V	
344	17.0	17.0	17.0	V	
345	17.5	16.5	17.0	V	
281	17.0	16.5	16.7	V	
276	16.5	16.5	16.5	V	
~~273~~	17.0	Rejected	—		—
274	17.0	16.5	16.7	V	
272	17.0	16.5	16.7	V	
271	18.0	17.0	17.5	V	
270	~~17.0~~ 16.5	16.5	16.5	V	
269	17.0	16.5	16.7	V	

Neb.	Mag. 1	Mag 2	Mean	Remark
266	16.5	16.5	16.5	
268	17.0	16.5	16.7	
267	17.0	16.5	16.7	
265	17.0	16.5	16.7	
264	17.0	16.5	16.7	
262	16.5	16.0	16.2	
261	16.5	16.0	16.2	
263	17.0	16.5	16.7	
351	17.5	17.0	17.2	Nebula?
352	17.0	16.5	16.7	
275	16.5	16.0	16.2	
277	16.0	16.0	16.0	
278a	17.0	16.5	16.7	
278b	17.0	16.5	16.7	
280	17.0	16.5	16.7	
279	16.5	16.5	16.5	Nebula?
346	17.5	17.0	17.2	
347	17.0	17.0	17.0	10
348	16.0	16.5	16.2	
350	16.0	16.0	16.0	
349	16.5	16.5	16.5	
368	17.5	17.0	17.2	
371	16.0	16.0	16.0	
372	16.5	16.5	16.5	
370	17.0	16.5	16.7	
~~369~~	~~18.5~~	Rejected	—	—
373	16.0	16.0	16.0	
126	16.0	16.0	16.0	
127	17.5	17.0	17.2	
211	18.0	17.0	17.5	

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Neb.	Mag. 1	Mag 2	Mean	Remarks
217	16.5	16.5	16.5	
218	16.0	16.0	16.0	
237	16.5	16.5	16.5	
238	17.0	16.5	16.7	
239	16.5	16.5	16.5	
240	17.0	16.5	16.7	
241	17.5	16.5	17.0	
242	17.0	16.5	16.7	
353	16.5	16.5	16.5	
354	17.0	17.0	17.0	
356	17.5	17.0	17.2	
~~355~~	~~17.5~~	Rejected	—	—
251	16.0	16.0	16.0	
257	16.0	16.0	16.0	
255	17.0	16.5	16.7	
254	17.5	17.0	17.2	
258	16.5	16.5	16.5	
260	17.0	16.5	16.7	
259	16.0	16.0	16.0	
215	17.0	16.5	16.7	
243	17.0	17.0	17.0	
342	17.5	17.0	17.2	
343	17.5	17.0	17.2	Nebula?
344	17.0	16.5	16.7	
345	17.0	16.5	16.7	
346	17.5	17.0	17.2	
347	17.5	17.0	17.2	
392	16.5	16.5	16.5	
391	17.5	17.0	17.2	
390	16.0	16.0	16.0	

Neb.	Mag. 1	Mag 2	Mean	Remarks
389	18.0	17.0	17.5	
388	16.5	16.5	16.5	
395	16.5	16.0	16.2	
396	15.5	15.5	15.5	Barred spiral
397	16.0	16.0	16.0	
398	16.5	16.5	16.5	
393	16.5	16.5	16.5	
394	16.5	16.5	16.5	
399	16.0	16.5	16.2	
645	15.5	16.0	15.7	
644	16.0	16.5	16.2	
643	17.0	17.0	17.0	
647	17.5	17.0	17.2	Nebula?
648	16.5	16.5	16.5	
674	16.5	16.5	16.5	
N497	15.0	14.5	14.7	
712	15.5	16.0	15.7	
675	16.5	16.5	16.5	
676	17.0	16.5	16.7	
673	18.0	17.0	17.5	
672	15.5	16.0	15.7	
671	16.5	16.0	16.2	
661	17.0	16.5	16.7	
660	17.5	17.0	17.2	
653	17.0	16.5	16.7	
654	17.0	17.0	17.0	
652	17.0	16.5	16.7	
670	17.5	17.0	17.2	Nebula?
659	17.5	17.0	17.2	
658	17.0	16.5	16.7	

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Neb.	Mag. 1	Mag 2	Mean	Remarks
657	17.0	17.0	17.4	✓
655	16.5	16.5	16.5	✓
656	17.0	16.5	16.7	✓
662	17.0	16.5	16.7	✓
66F	16.5	16.0	16.2	✓
667	16.5	16.5	16.5	✓
669	17.0	16.5	16.7	✓
690	17.0	16.5	16.7	✓
691	16.5	16.5	16.5	✓
699	17.0	16.5	16.7	✓
68E	17.0	16.5	16.7	✓
687	17.5	17.0	17.2	✓
684	17.5	16.5	17.0	✓
683	17.0	16.5	16.7	✓
692	16.5	16.5	16.5	✓
696	17.0	16.5	16.7	✓
697	16.5	16.5	16.5	✓
694	16.5	16.5	16.5	✓
695	17.5	17.0	17.2	✓
693	17.0	16.5	16.7	✓
710	17.0	16.5	16.7	✓
685	17.0	16.5	16.7	✓
686	17.0	16.5	16.7	✓
682	17.5	17.0	17.2	✓
687	15.5	15.5	15.5	✓
679	16.5	16.5	16.5	✓
672	16.5	16.5	16.5	✓
680	17.0	16.5	16.7	✓
677	17.0	16.5	16.7	✓
663	16.5	16.5	16.5	✓

Neb.	Mag. 1	Mag 2	Mean	Remarks
664	16.5	16.5	16.5	✓
665	16.5	16.5	16.5	✓
666	16.5	16.5	16.5	✓
703	16.5	16.5	16.5	✓
702	16.5	16.5	16.5	✓
701	16.5	16.5	16.5	✓
700	16.5	16.5	16.5	✓
698	16.5	16.5	16.5	✓
699	16.5	16.5	16.5	✓
704	16.5	16.5	16.5	✓
705	16.5	16.5	16.5	✓
707	17.0	16.5	16.7	✓
708	16.5	16.5	16.5	✓
706	15.5	16.0	15.7	✓
8F7	18.0	17.5	17.7	✓
8F6	17.0	17.0	17.0	✓
8F5	17.0	17.0	17.0	✓
892	17.0	17.0	17.0	✓
~~891~~	~~17.5~~	Rejected		
920	16.5	16.5	16.5	✓
~~921~~	~~16.5~~	~~Rejected~~		
~~919~~	~~17.0~~			
~~918~~	~~17.0~~			
917	16.0	16.0	16.0	✓
916	16.5	16.5	16.5	✓
~~930~~	~~16.5~~	Rejected		
931	17.5	17.0	17.2	✓
~~932~~	~~16.5~~	Rejected		
933	17.0	17.0	17.0	✓
934	17.5	18.0	17.7	✓

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A 15-F3-4

Neb.	Mag 1	Mag 2	Mean	Remarks
935	17.5	17.5	17.5	Nebula?
929	17.0	17.0	17.0	Nebula?
~~936~~	~~17.0~~	Rejected		
~~937~~	~~17.0~~	"		
928	17.0	17.0	17.0	
927	17.5	17.0	17.2	
926	16.5	16.5	16.5	
925	16.5	16.5	16.5	
924	16.0	16.0	16.0	
923	17.0	16.5	16.7	
922	17.0	17.0	17.0	
938	16.0	16.5	16.2	
939	16.5	16.5	16.5	
940	16.5	16.5	16.5	
941	16.5	16.5	16.5	
I 1703	15.0	15.5	15.2	
942	16.0	16.0	16.0	
943	16.5	16.5	16.5	
950	16.5	16.5	16.5	
~~951~~	~~16.5~~	Rejected		
949	17.5	17.5	17.5	
8F3	15.0	15.5	15.2	
709	15.5	16.0	15.7	
8F6	16.0	16.5	16.2	
8F9	17.0	17.0	17.0	
8F4	15.5	16.0	15.7	
711	16.5	16.5	16.5	
712	16.5	16.5	16.5	
I 1693	15.5	16.0	15.7	
716	16.0	16.5	16.2	

Neb.	Mag 1	Mag 2	Mean	Remarks
N519	15.5	16.0	15.7	
890	16.0	16.0	16.0	
I 1696	15.0	15.5	15.2	
915	16.5	16.5	16.5	
896	17.0	16.5	16.7	
N530	14.5	15.0	14.7	
882	17.0	17.0	17.0	
881	17.0	17.0	17.0	
892	16.5	16.5	16.5	
893	15.5	16.0	15.7	
894	17.0	16.5	16.7	
915	17.0	16.5	16.7	
N532	15.0	15.5	15.2	
895a	15.0	15.5	15.2	
895b	15.0	15.5	15.2	
914	16.0	16.5	16.2	
913	~~15.5~~ 15.5	16.0	15.7	
897	17.0	17.0	17.0	
N535	15.0	15.5	15.2	
541	14.5	15.5	15.0	
905	16.5	16.5	16.5	
906	17.5	17.0	17.2	
907	15.5	16.0	15.7	
908	16.5	16.5	16.5	
909a	16.5	17.0	16.7	
909b	17.0	17.0	17.0	
N547	14.5	15.0	14.7	
N545	14.5	15.0	14.7	
910	15.5	16.0	15.7	
911a	16.5	16.5	16.5	

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Neb.	Mag. 1	Mag 2	Mean	Remarks
911b	17.0	17.0	17.0	
944	16.5	17.0	16.7	
945	17.0	17.5	17.2	
946	16.5	16.5	16.5	
947	16.0	16.5	16.2	
N 548	15.5	15.5	15.5	
912	16.0	16.0	16.0	
904	17.0	17.0	17.0	
900	16.0	16.0	16.0	
901	17.0	17.0	17.0	
N 543	15.5	15.5	15.5	
899	16.5	16.5	16.5	
894	16.0	16.5	16.2	
879	16.5	17.0	16.7	
878	16.0	16.5	16.2	
877	16.5	17.0	16.7	Nebula ?
717	16.0	16.5	16.2	
713	16.5	16.5	16.5	
714	16.5	17.0	16.7	
715	16.5	16.5	16.5	
880	16.0	16.5	16.2	
903	17.5	17.0	17.2	
902	17.0	17.0	17.0	
952	16.5	16.5	16.5	
852	17.0	17.0	17.0	
850	17.0	17.0	17.0	
859	17.5	17.5	17.5	
857	16.5	16.5	16.5	
861	16.0	16.5	16.2	
719	17.0	17.0	17.0	

Neb.	Mag. 1	Mag 2	Mean	Remarks
722	16.5	17.0	16.7	
723	16.5	17.0	16.7	
724	17.0	17.0	17.0	
725	16.0	16.5	16.2	
726	17.0	17.5	17.2	
856	17.5	17.5	17.5	
721	17.0	17.0	17.0	
720	16.5	16.5	16.5	
635	16.5	16.5	16.5	
650	16.0	16.0	16.0	
649	15.0	15.5	15.2	
646	15.5	16.0	15.7	
651	16.0	16.0	16.0	
637	16.0	16.5	16.2	
640	16.5	17.0	16.7	
641	16.5	17.0	16.7	
642	15.5	15.5	15.5	
639	16.0	16.5	16.2	
638	16.0	16.0	16.0	
636	16.0	16.0	16.0	
551	16.0	16.5	16.2	
550	17.0	17.0	17.0	
401	17.0	17.0	17.0	
400	16.0	16.5	16.2	
552	17.5	17.0	17.2	
535	17.5	17.0	17.2	
534	16.5	16.5	16.5	
533	17.5	17.5	17.5	
532	16.5	16.5	16.5	
531	17.0	17.0	17.0	

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Neb.	Mag. 1	Mag 2	Means	Remarks
536	17.0	16.5	16.7	
539	16.5	16.5	16.5	
540	16.5	16.5	16.5	
541	16.5	16.5	16.5	
I 1681	15.5	15.5	15.5	
538	17.0	17.0	17.0	
537	16.0	16.5	16.2	
553	17.0	17.0	17.0	
554	16.5	16.5	16.5	
555	17.0	17.0	17.0	
557	17.0	17.0	17.0	
558	17.0	17.0	17.0	
556	16.5	16.5	16.5	
559	16.5	16.5	16.5	
560	16.0	16.0	16.0	
529	17.0	17.0	17.0	
530	16.0	16.5	16.2	
542	17.0	17.0	17.0	
543	16.5	16.5	16.5	
544	17.0	17.0	17.0	
545	16.5	16.5	16.5	
546	16.5	16.5	16.5	
547	17.0	17.5	17.2	
548	16.5	16.5	16.5	
549	17.0	17.5	17.2	
550	16.5	17.0	16.7	
514	16.0	16.5	16.2	
513	16.5	16.5	16.5	
512	16.5	16.5	16.5	
511	16.5	16.5	16.5	

Neb.	Mag. 1	Mag 2	Mean	Remarks
527	16.5	16.5	16.5	
528	17.5	17.0	17.2	
526	16.5	16.5	16.5	
525	17.0	16.5	16.7	
521	16.5	16.5	16.5	
522	17.0	17.0	17.0	
H 26	16.5	16.5	16.5	
H 27	16.5	16.5	16.5	
H 28	16.0	16.5	16.2	
H 19	16.5	16.5	16.5	
H 07	16.5	16.5	16.5	Nebula ?
H 20	17.0	16.5	16.7	
H 21	17.0	16.5	16.7	
H 22	16.5	16.5	16.5	
H 23	16.0	16.5	16.2	
H 24	16.5	16.5	16.5	
H 25	17.0	16.5	16.7	
H 03	17.0	17.0	17.0	30
H 06	16.5	16.5	16.5	
H 05	17.5	17.0	17.2	
H 04	17.0	17.0	17.0	
633	17.0	17.5	17.2	
632	16.5	16.5	16.5	
631	16.5	16.5	16.5	
630	17.0	17.0	17.0	
629	16.0	16.0	16.0	
628	16.5	17.0	16.7	
741	16.5	16.5	16.5	
743	15.5	15.5	15.5	
742	16.5	16.5	16.5	

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17 15+07 4

Neb.	Mag. 1.	Mag 2.	Mean	Remarks	Neb.	Mag. 1.	Mag 2.	Mean	Remarks
748	17.0	17.0	17.0	Nebula ?	572	16.5	16.5	16.5	
747	16.5	16.5	16.5		524	16.0	16.5	16.2	
I 1697	15.0	15.5	15.2		523	17.0	17.5	17.2	
745	16.5	16.5	16.5		567	16.5	16.5	16.5	
740	16.5	16.5	16.5		568	16.5	16.5	16.5	
746	16.5	16.5	16.5	Nebula ?	569	16.5	16.5	16.5	
734	16.0	16.5	16.2		570	16.0	16.0	16.0	
733	17.0	17.0	17.0		571	16.0	16.0	16.0	
625	16.0	16.0	16.0		N493	14.0	13.5	13.7	
626	16.5	16.5	16.5		621	16.5	16.5	16.5	
627	17.0	17.0	17.0		622	16.5	17.0	16.7	
566	16.0	16.5	16.2		623	16.0	16.5	16.2	
624	16.0	16.0	16.0		620	17.0	17.5	17.2	
735	16.5	16.5	16.5		601	16.5	16.5	16.5	
736	16.5	16.5	16.5		602	16.5	16.5	16.5	
737	15.5	16.0	15.7		603	16.5	16.5	16.5	
738	16.0	16.0	16.0		573	16.5	16.5	16.5	
739	15.5	15.0	15.2		619	16.5	16.5	16.5	
616	17.0	17.0	17.0		600	16.0	16.5	16.2	
615	16.5	16.5	16.5		604	16.0	16.0	16.0	
614	17.0	17.0	17.0		606	17.0	17.0	17.0	
613	16.5	17.0	16.7		605	16.0	16.5	16.2	
617	15.5	16.0	15.7		753	16.5	16.5	16.5	
612	15.5	16.0	15.7		756	17.0	16.5	16.7	
612	16.5	16.5	16.5		757	16.0	16.0	16.0	
611	17.0	17.0	17.0		I 1694	15.0	15.5	15.2	
610	16.5	16.5	16.5		759	16.5	17.0	16.7	
609	16.5	17.0	16.7		758	16.5	16.5	16.5	
608	16.5	16.5	16.5		760	16.5	17.0	16.7	
607	16.5	17.0	16.7		761	17.0	17.0	17.0	

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Neb.	Mag. 1	Mag 2	Mean	Remarks
755	16.5	165	16.5	
754	16.0	160	16.0	
N 521	13.0	(A.A.)	13.0	(A.A.)
762	16.0	16.0	16.0	
763	17.0	17.0	17.0	
764	17.0	17.0	17.0	
765	17.0	17.0	17.0	
766	16.0	Rejected		
767	16.5	165	16.5	
768	16.0	160	16.0	
599	16.0	160	16.0	
598	16.5	170	16.7	
597	15.5	155	15.5	
596	16.5	165	16.5	
595	16.0	160	160	
592	16.5	165	16.5	
593	16.5	165	16.5	
591	16.5	165	16.5	
594	16.0	165	16.2	
574	15.5	16.0	15.7	
507	16.0	160	16.0	
517	16.5	165	16.5	
518	16.5	165	16.5	
519	15.5	155	15.5	
506	16.5	165	16.5	
529	17.0	170	17.0	
528	16.5	165	16.5	
527	16.0	165	16.2	
521	17.0	17.0	17.0	
590	17.0	165	16.7	
508	16.5	165	16.5	
509	16.5	165	16.5	
510	16.5	17.0	16.7	
514	16.5	165	16.5	
515	16.5	165	16.5	
516	16.5	165	16.5	
524	16.5	165	16.5	
525	17.0	17.0	17.0	
505	16.0	160	16.0	
504	16.0	165	16.2	
503	16.0	165	16.2	
513	16.5	165	16.5	
512	16.5	165	16.5	
511	16.0	165	16.2	
575	165	165	16.5	
576	16.0	165	16.2	
790	16.5	165	16.5	
7FF	16.5	165	16.5	
7F9	16.5	17.0	16.7	
7F7	16.5	17.0	16.7	
7F6	16.5	170	16.7	
791	17.0	170	17.0	
792	16.5	165	16.5	
793	16.0	165	16.2	
797	16.5	165	16.5	
796	16.5	17.0	16.7	
794	16.5	17.0	16.7	
795	16.5	17.0	16.7	
200	16.0	16.5	16.2	
797	16.5	17.0	16.7	

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9 15 54

Neb.	Mag. 1	Mag 2	Mean	Remarks
801	16.0	16.0	16.0	
802	16.0	16.0	16.0	
809	16.5	16.5	16.5	
803	16.5	16.5	16.5	
804	16.5	16.5	16.5	
805	16.5	16.5	16.5	
806	16.5	16.5	16.5	
810	16.5	16.5	16.5	
811	16.0	16.5	16.2	
812	16.5	16.0	16.2	
814	16.0	16.5	16.2	
815	16.5	16.5	16.5	
813	16.0	16.5	16.2	
808	16.5	16.5	16.5	
807	16.0	16.5	16.2	
798	16.0	16.0	16.0	
1002	15.5	16.0	15.7	Nebula ?
1007	17.0	17.0	17.0	
1006	16.5	17.0	16.7	
1005	16.0	16.0	16.0	
1004	15.0	15.5	15.2	
821	16.5	16.5	16.5	
820	16.5	17.0	16.7	
819	16.0	16.5	16.2	
N 550	14.0	14.0	14.0	
816	16.5	17.0	16.7	
817	16.5	16.5	16.5	
818	16.0	16.0	16.0	
784	17.0	17.0	17.0	
785	16.5	16.5	16.5	

Neb.	Mag. 1	Mag 2	Mean	Remarks
781	17.0	17.0	17.0	
782	16.5	17.0	16.7	
783	16.5	16.5	16.5	
779	16.0	16.5	16.2	
780	16.5	17.0	16.7	
778	15.5	16.0	15.7	
770	16.0	16.5	16.2	
I 103	15.0	15.5	15.2	
777	16.0	16.5	16.2	
776	16.5	17.0	16.7	
775	17.0	17.0	17.0	
774	17.0	17.0	17.0	
773	16.5	16.5	16.5	
772a	16.0	16.5	16.2	
772b	16.5	16.5	16.5	
771	16.5	17.0	16.7	
I 105	15.5	16.0	15.7	
769a	16.0	16.5	16.2	
769b	16.5	16.5	16.5	
830	16.0	16.0	16.0	
829	16.5	16.5	16.5	
831	16.0	16.0	16.0	
828	17.0	17.0	17.0	
827	16.5	16.5	16.5	
825	16.0	16.5	16.2	
826	16.5	16.5	16.5	
824	16.5	16.5	16.5	
823	16.0	16.5	16.2	
822	16.0	16.5	16.2	
836	15.5	16.0	15.7	

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A 1554

Neb.	Mag. 1	Mag 2	Mean	Remarks
P35	15.5	160	15.7	
N533	13.0	(A.A)	13.0	(17.17.)
P32	15.5	160	15.7	
P33	15.5	160	15.7	
P34	16.5	165	16.5	
~~P36~~	~~16.0~~	Rejected —		
P37	16.0	165	16.2	
P38	16.0	165	16.2	
P41	16.0	16.0	16.0	
P42	16.5	16.5	16.5	
P44	17.0	17.0	17.0	
P43	16.5	17.0	16.7	
P40	17.0	170	17.0	
P45	15.5	160	15.7	
P46	16.5	165	16.5	
1024	17.0	17.0	17.0	
1023	16.0	165	16.2	
1022	16.5	170	16.7	
1026	17.0	170	17.0	
1025	17.0	17.5	17.2	
995	16.5	165	16.5	
994	16.5	165	16.5	
993	16.0	165	16.2	
992	16.0	165	16.2	
991	16.0	170	16.5	
990	16.0	165	16.2	
P47	15.5	15.5	15.5	
P48	16.5	16.5	16.5	
P49	16.5	165	16.5	
P74	17.0	165	16.7	✓

Neb.	Mag. 1	Mag 2	Mean	Remarks
P76	16.5	165	16.5	
P75	16.5	165	16.5	
P73	16.0	165	16.2	
P50	16.5	165	16.5	N ebulea ?
751	16.5	165	16.5	
752	16.5	165	16.5	
1027	16.5	165	16.5	
P72	17.0	170	17.0	50
750	16.0	16.0	16.0	
P53	16.0	165	16.2	
P51	16.5	165	16.5	
P52	16.5	165	16.5	
P54	16.5	17.0	16.7	N ebulea 2
P70	16.5	165	16.5	
P71	17.0	165	16.7	
P69	17.0	170	17.0	
P67	16.0	165	16.2	
P68	16.5	17.0	16.7	
749	16.0	160	16.0	
956	16.5	170	16.7	
955	17.0	170	17.0	
963	16.5	165	16.5	
964	17.0	170	17.0	
953	17.0	170	17.0	
957	17.0	170	17.0	
954	16.5	165	16.5	
952	17.0	170	17.0	
962	17.0	170	17.0	
961	16.5	165	16.5	

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A15F54

Neb.	Mag. 1	Mag 2	Mean	Remarks
960	16.0	160	16.0	✓
959	16.5	165	16.5	✓
954	16.0	160	16.0	✓
866	16.5	165	16.5	✓
864	16.5	165	16.5	✓
865	16.5	165	16.5	✓
863	16.0	160	16.0	✓
744	16.5	165	16.5	✓
731	16.5	170	16.7	✓
732	16.5	165	16.5	✓
734	16.5	165	16.5	✓
727	16.0	160	16.0	✓
728	17.0	17.0	17.0	✓
855	16.0	165	16.2	✓
729	16.5	165	16.5	✓
730	16.5	165	16.5	✓
862	16.5	17.0	16.7	✓
965	16.5	17.0	16.7	✓
966	16.0	160	16.0	✓
967	15.5	160	15.7	✓
~~968~~	~~17.0~~	Rejected		
969	17.0	17.0	17.0	✓
970	16.5	16.5	16.5	✓
971	16.0	165	16.2	✓
974	16.0	16.5	16.2	✓ Close contact with [illegible]
975	16.5	17.0	16.7	✓
976	16.0	16.5	16.2	✓
977	16.5	170	16.7	✓
√ 1057	17.0	170	17.0	✓
~~1058~~	~~16.5~~	Rejected		

Neb.	Mag. 1	Mag 2	Mean	Remarks
~~1044~~	~~17.5~~	Rejected		
1043	16.5	16.5	16.5	
1045	16.5	16.5	16.5	
1042	16.0	16.0	16.0	
1041	16.5	165	16.5	
1040	15.5	160	15.7	
1039	16.5	165	16.5	
1038	16.5	165	16.5	
1037	17.0	17.0	17.0	— 60
1036	16.5	165	16.5	
1035	16.5	165	16.5	
989	16.5	165	16.5	
984	16.5	165	16.5	
983	16.5	165	16.5	
973	16.5	165	16.5	
972	15.5	160	15.7	
982	16.0	165	16.2	
~~978~~	~~16.5~~	Rejected		
~~979~~	~~16.5~~	Rejected		
948	15.5	15.5	15.5	
980	15.0	15.5	15.2	
981	16.0	16.0	16.0	
1046	15.0	15.5	15.2	
1047	15.5	160	15.7	
~~1048~~	~~16.5~~	Rejected		
1049	16.0	165	16.2	
1051	16.5	17.0	16.7	
~~1056~~	~~16.5~~	Rejected		
~~1059~~	~~17.0~~	Rejected		
N545	15.0	14.5	14.7	

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17 1955-54

Neb.	Mag. 1	Mag 2	Mean	Remarks
1052	16.0	16.5	16.2	
1050	16.5	16.5	16.5	
~~1055~~	~~16.5~~	Rejected		
1054	17.0	17.0	17.0	
~~1053~~	~~17.0~~	Rejected		
1062	16.5	16.5	16.5	Nebula?
1060	16.5	16.5	16.5	
1070	16.0	16.5	16.2	
1080	16.5	16.5	16.5	Nebula?
I 119	15.0	15.5	15.2	
N 5058	15.0	16.0	15.5	
N 5060	14.5	15.0	14.7	
1068a	16.5	17.0	16.7	
~~1068b~~	~~16.5~~	Rejected		
1067	16.5	16.5	16.5	
I 120	15.5	16.0	15.7	
1069	17.0	17.0	17.0	
1071	16.0	16.5	16.2	
1072	16.0	16.5	16.2	
1075	16.5	16.5	16.5	
1074	16.0	16.0	16.0	
N 5064	14.5	15.0	14.7	
1061	16.5	16.5	16.5	
1065	16.5	17.0	16.7	
1073	15.5	15.5	15.5	
1076	16.5	17.0	16.7	
1063	15.5	16.0	15.7	
1064	16.0	16.5	16.2	
~~1066~~	~~16.5~~	Rejected		
1152	15.5	16.0	15.7	

Neb.	Mag. 1	Mag 2	Mean	Remarks
1153	16.0	16.5	16.2	
~~1151~~	~~16.5~~	Rejected		
1021	16.0	16.5	16.2	
N 577	14.0	14.5	14.2	
I 126	15.5	16.0	15.7	
~~1022~~	~~16.0~~	Rejected		
1150	16.5	16.5	16.5	
1142	16.5	17.0	16.7	Nebula?
1149	15.0	15.5	15.2	
~~1040~~	~~16.5~~	Rejected		
~~1079~~	~~16.5~~	Rejected		
1078	16.5	17.0	16.7	
1077	16.0	16.5	16.2	
~~1025~~	~~16.5~~	Rejected		
1026	16.5	16.5	16.5	
1027	16.5	16.5	16.5	
1028	16.0	16.5	16.2	
1029	16.0	16.5	16.2	
1025	15.0	15.5	15.2	
1024	16.0	16.0	16.0	
1147	16.5	17.0	16.7	
1146	16.5	17.0	16.7	
1145	16.5	17.0	16.7	
N 5075	14.5	15.0	14.7	
1095	16.0	16.5	16.2	
1220	16.5	16.5	16.5	
1218	16.0	16.5	16.2	
1219	17.0	17.5	17.2	
1096	16.5	16.5	16.5	
1143	16.0	16.0	16.0	

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17 15 54

Neb.	Mag. 1	Mag 2	Mean	Remarks
1144	16.5	16.5	16.5	
1161	16.0	16.0	16.0	
1217	17.0	17.0	17.0	
1162	16.0	16.5	16.2	
1221	17.0	16.5	16.7	
1216	17.0	17.0	17.0	
1163	16.0	16.5	16.2	
1215	16.5	17.0	16.7	
1096	16.0	16.5	16.2	
1099	16.0	16.5	16.2	
1097	16.0	16.5	16.2	
1092	15.0	15.5	15.2	
1093	16.5	16.5	16.5	
1091	17.0	16.5	16.7	
1094	17.0	17.0	17.0	Nebula?
N 570	14.5	15.0	14.7	
1034	16.5	16.5	16.5	
1033	17.0	17.0	17.0	
987	16.5	16.5	16.5	
988	17.0	17.0	17.0	
1032	16.0	16.5	16.2	
1031	15.5	16.0	15.7	
1101	17.0	17.0	17.0	
1110	17.0	17.0	17.0	Nebula?
1140	17.0	17.0	17.0	
1141	16.5	16.5	16.5	
1142	16.5	16.5	16.5	
1029	16.5	16.5	16.5	
1028	16.5	16.5	16.5	
1030	16.5	16.5	16.5	

Neb	Mag. 1	Mag 2	Mean	Remarks
1102	16.5	17.0	16.7	
1103	16.0	16.5	16.2	
1104	16.5	17.0	16.7	Nebula?
1137	16.5	16.5	16.5	Nebula?
1138	16.5	16.5	16.5	Nebula?
1139	16.0	16.5	16.2	
1166	16.0	16.5	16.2	
1165	16.0	16.5	16.2	
1171	16.5	17.0	16.7	
1170	16.5	16.5	16.5	
1169	16.0	16.5	16.2	
1172	16.0	16.5	16.2	
1173	16.5	17.0	16.7	
1211	16.5	17.0	16.7	
1168	16.5	16.5	16.5	
1167	16.5	17.0	16.7	Nebula?
1174	17.0	17.0	17.0	Nebula
1175	17.0	17.0	17.0	Nebula
1338	15.5	16.0	15.7	
1339	16.5	16.5	16.5	
1176	17.0	17.0	17.0	
1177	16.0	16.5	16.2	
1178	16.5	16.5	16.5	
1179	16.0	16.5	16.2	
1180	16.5	17.0	16.7	
1181	16.5	17.0	16.7	
1183	17.0	16.5	16.7	
1184	16.5	16.5	16.5	Nebula?
1182	16.5	16.5	16.5	
1189	16.5	16.5	16.5	

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Neb.	Mag. 1	Mag 2			Neb.	Mag. 1	Mag 2	Mean	Remarks
1131	17.0	17.5	17.4	✓	1194	16.5	16.5	16.5	✓
1135	16.5	16.5	16.5	✓ Nebula?	1195	16.5	17.0	16.7	✓
1134	17.0	17.0	17.0	✓	1196	16.0	16.0	16.0	✓
1133	16.5	16.5	16.5	✓	~~1194~~	~~17.0~~		Rejected	
1150	16.5	16.5	16.5	✓	1195a	16.0	16.5	16.4	✓
1136	17.0	16.5	16.7	✓	1196a	16.5	16.5	16.5	✓
✓ 1190	16.0	16.5	16.4	✓	1197	16.0	16.0	16.0	✓
✓ 1191	16.5	16.5	16.5	✓	1295	17.0	17.0	17.0	✓
✓ 1192	17.0	17.0	17.0	✓	1294	16.0	16.5	16.4	✓
✓ 1193	16.5	16.5	16.5	✓ Nebula?	1128	16.0	16.5	16.4	✓
✓ 1188	17.0	17.0	17.0	✓	1131	16.5	16.5	16.5	✓
1105	16.0	16.5	16.4	✓	1129	17.0	16.5	16.4	✓
1106	17.0	17.0	17.0	✓	1130	16.5	17.0	16.4	✓
1107	16.5	17.0	16.4	✓ Nebula	1132	17.0	17.0	17.0	✓
1108	17.0	17.0	17.0	✓	1112	16.5	17.0	16.4	✓
1127	16.5	16.5	16.5	✓ Nebula?	1111	16.0	16.5	16.4	✓
1009	16.0	16.5	16.4	✓	143	16.0	16.5	16.4	✓
999	17.0	17.0	17.0	✓ 70	1114	16.5	16.5	16.5	✓
1000	16.5	16.5	16.5	✓	1115	16.5	16.5	16.5	✓
997	17.0	17.0	17.0	✓	1116	16.0	16.5	16.4	✓
998	17.0	17.0	17.0	✓	1117	15.5	16.0	15.4	✓
996	16.5	16.5	16.5	✓	1118	16.0	16.0	16.0	✓
1011	17.0	17.0	17.0	✓	1125	16.5	16.5	16.5	✓
1010	16.5	17.0	16.4	✓	1124	16.0	16.0	16.0	✓
1012	16.5	17.0	16.4	✓	1126	16.5	17.0	16.4	✓
1013	17.0	17.0	17.0	✓	1122	16.0	16.0	16.0	✓
1109	16.0	16.0	16.0	✓	1123	17.0	17.0	17.0	✓
1014	17.0	17.0	17.0	✓	1198	16.0	16.5	16.4	✓
1110	17.0	17.0	17.0	✓ Nebula?	1200	17.0	17.0	17.0	✓
1187	16.0	16.5	16.4	✓	1199	16.5	17.0	16.4	✓

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Neb.	Mag. 1	Mag 2	Means		Remarks
1121	17.0	17.5	17.2	✓	
1120	17.0	16.5	16.7	✓	
1119	16.0	16.5	16.2	✓	
1299	16.5	16.5	16.5	✓	
1015	16.0	16.5	16.2	✓	
I123	15.0	15.5	15.2	✓	
1020	16.5	16.5	16.5	✓	
I121	15.0	15.0	15.0	✓	
1016	16.5	16.0	16.2	✓	
1017	16.0	16.5	16.2	✓	
1018	16.5	16.5	16.5	✓	
1019	17.0	17.0	17.0	✓	
1003	17.0	17.0	17.0	✓	
1002	16.5	17.0	16.7	✓	Nebula?
1001	16.5	16.5	16.5	✓	
1021	17.0	17.0	17.0	✓	
1298	15.5	15.5	15.5	✓	
1301	16.5	16.5	16.5	✓	
1300	16.5	17.0	16.7	✓	
1310	16.5	17.0	16.7	✓	
1309	16.5	16.5	16.5	✓	
1314	16.5	16.5	16.5	✓	
1326	16.0	16.0	16.0	✓	
1325	16.5	16.5	16.5	✓	
1313	17.0	17.0	17.0	✓	
1312	16.5	17.0	16.7	✓	Nebula
1311	16.5	17.0	16.7	✓	
1303	16.5	17.0	16.7	✓	
1304	16.5	17.0	16.7	✓	
1316	17.0	17.5	17.2	✓	Nebula?

Neb.	Mag. 1	Mag 2	Mean		Remarks
1302	16.5	17.0	16.7	✓	
1297	16.0	16.5	16.2	✓	Nebula?
1296	16.5	17.0	16.7	✓	
1201	16.5	16.5	16.5	✓	
1305	16.0	16.0	16.0	✓	
1306	17.0	17.0	17.0	✓	Nebula?
1209	17.0	17.0	17.0	✓	
1208	16.5	17.0	16.7	✓	
1207	16.5	17.0	16.7	✓	
1206	17.0	17.0	17.0	✓	
1230	16.5	17.0	16.7	✓	
1203	16.0	16.0	16.0	✓	
1204	17.0	17.0	17.0	✓	
1205	16.5	17.0	16.7	✓	
1202	16.5	16.5	16.5	✓	
1307	16.5	17.0	16.7	✓	
1308	16.5	16.5	16.5	✓	
N622	15.0	15.0	15.0	✓	
1317	16.5	17.0	16.7	✓	
1330	16.0	16.5	16.2	✓	
I140	15.5	15.5	15.5	✓	
1319	16.0	16.5	16.2	✓	
1320	16.0	16.0	16.0	✓	
1321	16.5	16.5	16.5	✓	
1322	15.5	16.0	15.7	✓	
1323	~~16.0~~	16.5	16.2	✓	
1329	15.0	15.5	15.2	✓	
1328	16.5	17.0	16.7	✓	
1324	16.5	16.5	16.5	✓	
1327	16.5	16.5	16.5	✓	

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Neb.	Mag.1	Mag2	Mean	Remarks
1236	17.0	170	17.0	✓
1234	17.0	165	16.7	✓
1233	17.0	17.0	17.0	✓
1210	16.5	16.5	16.5	✓
1214	17.0	17.0	17.0	✓
1268	17.0	16.5	16.7	✓
1232	17.0	165	16.7	✓
1231	17.0	170	17.0	✓
1230	16.5	165	16.5	✓
1229	16.5	16.5	16.5	✓
1213	16.5	165	16.5	✓
1212	16.5	165	16.5	✓
1164	17.0	165	16.7	✓
1207	17.0	17.5	17.2	✓
1267	16.5	17.0	16.7	✓
1272	16.5	17.0	16.7	✓
1271	16.5	17.0	16.7	✓
1284	17.0	17.0	17.0	✓ Nebula?
1283	16.0	16.0	16.0	✓
1282	16.5	165	16.5	✓
1315	16.0	165	16.2	✓
1316	16.5	165	16.5	✓
1337	17.0	17.5	17.2	✓ Nebula?
1331	16.0	160	16.0	✓
1332	16.0	160	16.0	✓
1334	16.0	160	16.0	✓
1333	16.0	160	16.0	✓
1335	16.0	16.5	16.2	✓ Nebula?
1293	16.5	165	16.5	✓
1291	16.0	16.0	16.0	Nebula?

Neb.	Mag.1	Mag2	Mean	Nebula
1290	16.0	16.5	16.2	✓
1292	~~16.5~~	~~17.0~~	Rejected	
1289	16.0	16.5	16.2	✓
1287	16.0	16.5	16.2	✓
1288	16.0	165	16.2	✓
1336	16.5	165	16.5	✓
1285	16.5	17.0	16.7	✓
1280	16.5	16.5	16.5	✓
1279	17.0	17.0	17.0	✓
1281	16.0	16.0	16.0	✓
1274	16.0	165	16.2	✓
1273	16.5	165	16.5	✓
1270	16.5	165	16.5	✓
1269	17.0	170	17.0	✓
1262	16.5	165	16.5	✓
1261	17.5	170	17.2	✓
1260	16.5	165	16.5	✓ Nebula?
1263	17.0	170	17.0	✓
1264	16.5	165	16.5	✓
1265	16.5	165	16.5	✓
1266	16.5	16.5	16.5	✓
1286	16.5	16.5	16.5	✓
1256	16.0	165	16.2	✓
1253	16.5	170	16.7	✓
1223	17.0	17.0	17.0	✓
1237	17.0	17.0	17.0	✓
I132	15.5	15.5	15.5	✓
1238	16.0	160	16.0	✓
1239	16.0	160	16.0	✓
1243	16.0	160	16.0	✓

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Neb.	Mag. 1.	Mag 2	Mean	Remarks
1242	17.0	17.0	17.0	✓
~~1244~~	~~16.0~~	Rejected		
1240	16.5	165	16.5	✓
1241	17.0	17.0	17.0	✓
1224	16.5	165	16.5	✓
1225	16.5	170	16.7	✓
1226	16.5	170	16.7	✓
1227	16.5	165	16.5	✓
1228	16.5	165	16.5	✓
1255	17.0	17.0	17.0	✓
1254a	16.0	16.5	16.2	✓
1254b	16.5	16.5	16.5	✓
1252	17.0	170	17.0	✓
1251	15.0	15.0	15.0	✓
1249	15.0	15.5	15.2	✓
1250	16.0	16.5	16.2	✓
1248	17.0	17.0	17.0	✓
1245	15.5	16.0	15.7	✓
1222	16.5	165	16.5	✓
1159	16.5	165	16.5	✓
1160	16.5	16.5	16.5	✓
1278	16.5	16.5	16.5	✓ Nebula?
1277	16.0	16.0	16.0	✓
1276	17.0	165	16.7	✓
1275	17.0	17.0	17.0	✓
1252	16.5	170	16.7	✓
1259	16.5	17.0	16.7	✓ Nebula?
1247	16.5	16.5	16.5	✓
1246	16.5	165	16.5	✓
1154	16.5	16.5	16.5	✓

Neb.	Mag. 1.	Mag 2	Mean	Remarks
1155	16.5	165	16.5	✓
1156	16.5	165	16.5	✓
1157	16.5	165	16.5	✓
1158	16.5	165	16.5	✓

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Neb	Mag.	Neb.	Mag.

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Region 8

Nos. in purple ( ) corresponding nos. on " " blue ( ) " " 14280
" " green ( ) " " 14272
" " red ( ) " " 14269
" " green [ ] " " 4179
" " red [ ] " " 4181
" " " " 3339

Neb.	Mag. 1	Mag. 2	Mean			Neb.	Mag. 1	Mag. 2	Mean	
225	17.0	17.0	17.0		(483a)	482	17.0	17.5	17.2	17.2
226	16.5	16.5	16.5			222	16.5	16.5	16.5	
224	17.0	17.0	17.0			223	17.0	17.0	17.0	
221	17.0	16.5	17.0	16.7		194	16.5	16.5	16.5	
(H03) 519	16.5	16.5	16.5			203	16.0	16.0	16.0	
(H512) 518	17.0	17.0	17.0			195	16.5	16.0	16.0	16.2
219	16.5	16.5	16.5			196	17.0	16.5	16.5	16.4
(H39) 218a D 2.12	17.0	17.0	17.0			197	16.5	16.0	16.0	16.2
218b	16.5	16.5	16.5							
(H52) 517	17.5	17.5	17.5			159	16.5	16.5	16.5	
(H02) 520	16.0	16.0	16.0			160	16.5	16.0	16.0	16.2
(H53) 516	17.0	17.5	17.5	17.2		161	16.5	16.5	16.5	
214	16.0	16.0	16.0		(477)	506	16.5	17.0	17.0	16.7
199	16.5	16.5	16.5		(478)	505	17.0	17.5	17.5	17.2
220	17.0	17.0	17.0		(580)	504	17.0	17.0	17.0	
(H04) 467	17.0	16.5	17.0	16.7		158	16.5	16.5	16.5	defect
		17.5								
(H57) 468	17.5	H60	M.5			509	16.5	16.5	16.5	
(H62) 469	17.5	17.5	17.5		(471a)	510	17.5	17.5	17.5	
(H64) 470	17.5	17.5	17.5		(472)	511	16.5	17.0	17.0	16.7
(H63) 471	16.5	16.5	16.5		(470a)	512	17.0	17.0	17.0	
I 1903	16.5	16.0	16.5	16.2	(474)	513	17.0	17.0	17.0	
(H85a) 472	17.0	17.0	17.0			514	17.0	17.0	17.0	
(H84a) 473	16.5	16.5	16.5		(473)	515	17.5	17.5	17.5	
(H80a) star? 474	16.5	16.5	16.5			217	16.5	16.0	16.0	16.2
(H69) 475a	17.0	17.0	17.0			216	16.5	17.0	17.0	16.7
475b	17.0	17.0	17.0							
(H68) 476	16.5	16.5	16.5			202	16.0	16.0	16.0	
(H81a) 477	17.0	17.5	17.0	17.2		215	16.5	16.5	16.5	
(H82a)* 478	17.0	17.5	17.5	17.2	(476)	503	17.0	17.0	17.0	
barely visible (H67) 479	17.5	17.5	17.5		(479)	502	17.0	17.5	17.5	17.2
(H66) 480	17.0	17.5	17.0	17.2	(581)	501	17.0	17.5	17.0	17.2
11 (H65) 481	17.5	17.5	17.5		(582)	500	16.5	17.0	16.5	16.7

*Neg. measured on 14272 as scratch covers it on this plate.

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Neb.	Mag. 1	Mag. 2	Mean (4)	
(583) 499	17.0	17.0	17.0 ✓	
213 ✓	17.0	17.0	17.0 ✓	
212 ✓	17.0	17.0	17.0 ✓	
211 ✓	17.0	17.0	17.0 ✓	
210 ✓	16.5⁻	16.5⁻	16.5 ✓	
209 ✓	17.0	17.0	17.0 ✓	
208 ✓	16.5⁻	16.5⁻	16.5 ✓	
207 ✓	16.5⁻	16.0⁻	16.5⁻ ✓	
206 ✓	17.0	16.5⁻	17.0 ✓	16.7
205 ✓	16.5⁻	16.5⁻	16.5⁻ ✓	
146 ✓	17.0	17.0	17.0 ✓	
271 ✓	17.0	16.5⁻	16.5⁻ ✓	16.7 ✓
(573) 487	17.0⁻	17.0	17.0	17.2 ✓
dotting (488 (574)	17.0⁻	17.0⁻	17.0⁻ ✓	
exist? 489 (575)	17.0⁻	17.0⁻	17.0⁻ ✓	
(588) 490	17.0	17.0	17.0 ✓	
(798) 491	17.0⁻	17.0⁻	17.0⁻ ✓	
(797) 492	17.0⁻	17.0⁻	17.0⁻ ✓	
(799) 493	17.0	17.0 (17.5)	17.0 ✓	
(800) 494	17.0⁻	~~16.0~~	17.0⁻ ✓	
143 ✓	17.0	16.0⁻	16.0⁻	16.7 ✓
142 ✓	16.5⁻	16.0	16.0	16.2 ✓
(576) 483	17.0	17.0⁻	17.0⁻	17.2 ✓
(577) 484	17.0	17.0	17.0 ✓	
(578) 485	17.0⁻	17.0⁻	17.0⁻ ✓	
(579) 486	17.0	17.0	17.0 ✓	
508	17.0	16.0⁻	17.0	16.7 ✓
(587) 507	17.0	16.0⁻	16.0⁻	16.7 ✓
I 1912 ✓	16.0⁻	16.0	16.0	16.2 ✓

Neb.	Mag. 1	Mag. 2	Mean (7)	
123 ✓	17.0	16.0⁻	16.0⁻	16.7 ✓
(801) 495	16.5⁻	16.5⁻	16.5⁻ ✓	
(802) 496	17.0	16.5⁻	17.0	16.7 ✓
(238) 497	17.0	16.0⁻	16.5⁻	16.7 ✓
122 ✓	17.0	16.5⁻	17.0	16.7 ✓
157 ✓	16.5⁻	16.0	16.0⁻	16.2 ✓
158 ✓	16.5⁻	16.5⁻	16.5⁻ ✓	
(39) 521	17.0⁻	~~16.0~~ 17.0	17.0	17.2 ✓
144 ✓	17.0	16.5⁻	16.5⁻	16.7 ✓
145 ✓	17.0	16.0⁻	17.0	16.7 ✓
(584) 498	17.0	17.0	17.0 ✓	
263 ✓	17.0	17.0	17.0 ✓	
I 1914 ✓	15.0	14.0⁻	14.5	14.7 ✓
(140) 410	17.0	17.0	17.0 ✓	
(36) 149 ✓	16.0	16.0⁻	16.0	16.2 ✓
264 ✓	17.0	17.0	17.0 ✓	
(138) 411	17.0⁻	17.0	17.0⁻	17.2 ✓
(139) 412	17.0	17.0	17.0 ✓	
265 ✓	16.5⁻	16.5⁻	16.5⁻ ✓	
266 ✓	16.0	16.0	16.0 ✓	
121 ✓	16.5⁻	16.0	16.0	16.2 ✓
267 ✓	16.5⁻	16.0⁻	16.5⁻ ✓	
204 ✓	16.5⁻	16.5⁻	16.5⁻ ✓	
I 1916 ✓	16.0	15.5⁻	15.5⁻	15.7 ✓
(82) 530	17.0	17.0	17.0 ✓	
(86) (137) (93) 413	16.5⁻	16.5⁻	16.5⁻ ✓	
(87) 606	17.0	17.0	17.0 ✓	
(84) 607	17.0	17.0	17.0 ✓	
(143) 109 ✓	16.5⁻	16.5⁻	16.5⁻ ✓	
~~114~~	defect			

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8

Neb.	Mag. 1	Mag. 2	Mean		
(27) 5-25	15.5	15.5	15.5 ✓		
*(95) 603	16.5	16.5	16.5 ✓		
15-1 ✓	16.5	16.5	16.5 ✓		
I 1935 ✓	15.5	15.0	15.0 *	15.2 ✓	
99 ✓	17.5	17.0	17.5	17.2 ✓	
~~524~~	~~16.5~~	star			
(28) (145) 466	16.5	16.0	16.0	16.2 ✓	
(94) 604	17.0	17.0	17.0 ✓		
(93) 605	17.0	17.0	17.0 ✓		
15-2 ✓	17.0	16.5	16.5	16.7 ✓	
(90) 606	16.5	16.5	16.5 ✓		
(88) (144) 414 ✓	17.0	16.5	17.0	16.7 ✓	
(92) (142) 410 ✓	17.5	17.0	17.5	17.2 ✓	
~~523~~	star				
(91) 15-0 ✓	16.5	16.5	16.5 ✓		
(8) 5-22	17.0	17.5	17.0	17.2 ✓	
107 ✓	16.5	16.5	16.5 ✓		
106 ✓	16.5	16.5	16.5 ✓		
108 ✓	16.5	16.5	16.5 ✓		
460	16.0	16.0	16.0 ✓		
609	16.5	16.5	16.5 ✓		
15-3 ✓	17.0	17.0	17.0 ✓		
(83) 529	17.0	17.5	17.5	17.2 ✓	
(84) 5-28	17.0	17.0	17.0 ✓		
(85) 527 a	17.0	17.5	17.0 ✓	17.2 ✓	
527 b	17.0	17.5	17.2		
(97) 531	17.5	17.0	17.5	17.2 ✓	
(96) 532	17.5	17.5	17.5 ✓		
(362) 533	17.0	17.0	17.0 ✓		
(365) 534	17.0	17.0	17.0 ✓		
(363) 535	17.0	17.0	17.0		

13

Neb.	Mag. 1	Mag. 2	Mean		
(364) 536	17.5	~~16.5~~ 17.0	17.5 ✓		
(367) 537	17.0	17.0	17.0 ✓		
~~538~~	~~17.0~~	~~16.5~~	~~17.0~~		rejected ~~N 4~~
(369) 539	17.5	17.5	17.5 ✓		
(372) 540	17.0	17.0	17.0 ✓		
(371) 541	17.0	17.0	17.0 ✓		
(386) 542 a	17.0	16.5	16.5	16.4 ✓	
542 b	17.0	17.0	17.0 ✓		
(385) 543	17.0	17.0	17.0 ✓		
(387) 544	16.5	16.5	16.5 ✓		
545	nebula	nebula			
(10) 98 ✓	16.5	16.5	16.5 ✓		
270 ✓	16.5	16.5	16.5 ✓		
276 ✓	16.5	16.0	16.0	16.2 ✓	
277 ✓	17.0	17.5	17.5	17.2 ✓	
I 1921 ✓	16.5	16.5	16.5 ✓		
I 1922 ✓	16.5	16.5	16.5 ✓		
278 ✓	17.0	17.0	17.0 ✓		
279 ✓	16.5	16.5	16.5 ✓		
281 ✓	17.0	17.0	17.0 ✓		
282 ✓	16.5	16.5	16.5 ✓		
283 ✓	17.0	17.0	17.0 ✓		
284 ✓	16.5	16.5	16.5 ✓		
90 ✓	16.0	16.0	16.0 ✓		
91 ✓	16.5	16.5	16.5 ✓		
167 ✓	16.5	16.5	16.5 ✓		
168 ✓	16.5	16.5	16.5 ✓		
280 ✓	16.5	16.5	16.5 ✓		
119 ✓	16.5	16.5	16.5 ✓		
I 1915 ✓	16.5	16.0	16.0	16.2 ✓	

* measured on 14280 as scratch comm here

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F3346

Neb. H.S.1	Mag.1	Mag.2	Mean	
	3a 271	a and 4179	4	
137 ✓	17.0	17.0	17.0 ✓	
138 ✓	16.5	16.5	16.5 ✓	
260 ✓	16.5	16.5	16.5 ✓	
259 ✓	17.0	17.0	17.0 ✓	
180 ✓	16.5	16.5	16.5 ✓	
257 ✓	17.0	17.0	17.0 ✓	
126 ✓	16.5	16.0	16.5	16.2 ✓
134 ✓	17.0	16.5	17.0	16.7 ✓
253 ✓	17.0	17.0	17.5	17.2 ✓
182 ✓	16.5	16.5	16.5 ✓	
181 ✓	16.0	16.0	16.0 ✓	
256 ✓	16.5	17.0	17.0	16.7 ✓
183 ✓	16.5	16.5	16.5 ✓	
201 ✓	16.0	16.0	16.0 ✓	
254 ✓	17.0	17.0	17.0 ✓	
251 ✓	17.0	17.0	17.0 ✓	
250 a ✓	17.0	16.5	16.5	16.7 ✓
250 b ✓	17.0	16.5	17.0	16.7 ✓
127 ✓	17.0	16.5	16.5	16.7 ✓
163 ✓	16.5	16.5	16.5 ✓	
285 ✓	17.0	17.0	17.0 ✓	
289 ✓	17.0	17.0	17.0 ✓	
290 ✓	17.0	17.0	17.0 ✓	
169 ✓	16.5	16.5	16.5 ✓	
118 ✓	16.0	16.0	16.0 ✓	
287 ✓	16.0	16.0	16.0 ✓	
291 ✓	17.0	16.5	17.0	16.7 ✓
286 ✓	17.0	17.0	17.0 ✓	
125 ✓	16.5	16.5	16.5 ✓	
166 ✓	16.0	16.0	16.0 ✓	

Neb.	Mag.1	Mag.2	Mean	
			11	
73 ✓	16.5	16.5	16.5 ✓	
77 ✓	16.5	16.5	16.5 ✓	
78 ✓	17.0	17.0	17.0 ✓	
79 ✓	16.5	16.0	16.5	16.2 ✓
86 ✓	16.5	16.5	16.5 ✓	
85 ✓	16.5	16.5	16.5 ✓	
292 ✓	16.5	16.5	16.5 ✓	
87 ✓	16.5	16.5	16.5 ✓	
92 ✓	17.0	17.0	17.0 ✓	
I 1932 ✓	15.5	15.5	15.5 ✓	
I 1936 ✓	15.5	15.5	15.5 ✓	
I 1925 ✓	15.0	14.5	15.0	14.7 ✓
300 ✓	17.0	16.5	16.5	16.7 ✓
81 ✓	17.0	16.5	17.0	16.7 ✓
302 ✓	16.5	16.5	16.5 ✓	
83 ✓	16.5	16.0	16.5	16.2 ✓
303 ✓	16.5	16.5	16.5 ✓	
24 ✓	15.5	15.5	15.5 ✓	
23 ✓	15.5	15.5	15.5 ✓	
386 ✓	17.0	17.0	17.0 ✓	
299 ✓	17.0	17.0	17.0 ✓	
84 ✓	16.5	16.5	16.5 ✓	
88 ✓	17.0	17.0	17.0 ✓	
93 ✓	17.0	17.0	17.0 ✓	
298 ✓	17.0	17.0	17.0 ✓	
89 ✓	16.5	16.5	16.5 ✓	
22 ✓	16.0	16.0	16.0 ✓	
94 ✓	17.0	17.0	17.0 ✓	
95 ✓	16.5	16.5	16.5 ✓	
646	17.5	17.5	17.5 ✓	

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Neb.	Mag. 1	Mag. 2	Mean	
97	16.0	16.0	16.0	
21	17.0	17.0	17.0	
389	16.5	16.5	16.5	
390	17.0	16.5	17.0	16.7
~~537~~	~~16.5~~	star		
(705) 602	17.0	17.0	17.0	
20	16.5	16.5	16.5	
I 1950	15.5	15.5	15.5	
I 1947	15.5	15.0	15.5	15.2
N 1356	14.5	14.5	14.5	
(490) 547	17.5	17.5	17.5	
(499) 548	17.5	17.5	17.5	
(498) 549	17.0	17.0	17.0	
(497) 550	16.5	16.0	16.0	16.2
I 1959	13.5	13.5	13.5	
(390) (165) H 24	16.5	17.0	16.5	16.7
(166) H 23	17.0	17.5	17.0	17.2
(391) (164) H 22	17.0	17.5	17.5	17.2
(392) 553	17.0	17.0	17.0	
103	16.5	~~17.0~~ 16.5	16.5	
(294) H 25	17.0	16.5	17.0	16.7
19	16.5	16.5	16.5	
(500) 552	17.0	17.0	17.0	
(291) H 26	17.5	17.5	17.5	
(292) H 27	17.5	17.5	17.5	
(290) H 28	17.5	17.5	17.5	
(293) H 29	17.5	17.5	17.5	
(389) (152) H 21	16.5	16.5	16.5	
(151) H 20	17.5	17.5	17.5	
(150) H 19	17.0	17.0	17.0	

Neb.	Mag. 1	Mag. 2	Mean	
(149) H 18	16.5	17.0	16.5	16.7
(148) H 17	17.5	17.5	17.5	
(141) H 16	16.5	17.0	17.0	16.7
105	15.5	15.5	15.5	
100	17.0	16.5	16.5	16.7
(163) H 30	17.5	17.0	17.0	17.2
(167) H 31	17.0	17.0	17.0	
(168) H 32	17.0	17.5	17.5	17.2
(157) H 33	17.5	17.0	17.0	17.2
(158) H 34	17.0	17.0	17.0	
(159) H 35	17.5	17.5	17.5	
(160) H 36	17.5	17.0	17.5	17.2
(162) H 37	16.5	17.0	17.0	16.7
(161) H 38	17.5	17.5	17.5	
~~395~~	~~not nebula~~			
~~394~~	~~not nebula~~			
393	17.0	~~16.0~~ 17.0	17.0	
392	17.0	16.5	16.5	16.7
(289) H 39	17.0	17.0	17.0	
398	16.5	16.5	16.5	
[125] 396	16.5	16.5	16.5	
(301) H 44	17.5	17.5	17.5	
[HF] (300) H 08	16.0	16.0	16.0	
(299) H 43	16.5	16.5	16.5	
H 40	17.5	17.5	17.5	
397	16.5	16.5	16.5	
(298) H 42	17.0	17.0	17.0	
(297) H 41	17.0	17.0	17.0	
(302) H 46	16.5	16.5	16.5	
(303) H 45	17.5	17.5	17.5	

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1930phae.proj:29:COM

A 3346

Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2	Mean	
I 1961 ✓	16.5	16.5	16.5 ✓		* ~~566~~	16.5	16.5	16.5 ✓	
(307) 450	17.0	17.0	17.0 ✓		* ~~565~~	16.5	16.5	16.5 ✓	
(308) 451	17.5	17.5	17.5 ✓		* ~~564~~	17.5	17.5	17.5 ✓	
(309) 452	17.0	17.0	17.0 ✓		* ~~563~~	17.0	17.0	17.0 ✓	
(306) 453	16.5	17.0	17.0 ✓	16.7 ✓	* ~~562~~	17.5	17.5	17.5 ✓	
(310) 454	16.5	16.5	16.5 ✓		~~561~~	~~17.0~~	~~17.5~~	~~17.0~~	~~17.2~~ rejected
(312) 455	17.5	17.5	17.5 ✓		F ~~560~~	~~17.0~~	~~17.0~~	~~17.0~~	
(311) 456	17.0	17.5	17.5 ✓	17.2 ✓	(277) 559	17.5	17.5	17.5 ✓	
(317) 457	17.0	17.0	17.0 ✓		(276) 558	17.0	17.0	17.0 ✓	
(358) 458	17.5	17.5	17.5 ✓		(269) 557	17.0	17.5	17.5 ✓	17.2 ✓
(359) 459	16.0	16.5	16.0 ✓	16.2 ✓	(279) * 556	17.0	16.5	17.0	16.7 ✓
(360) 460	17.5	17.5	17.5 ✓		(981) 555	17.0	16.5	16.5 ✓	16.7 ✓
[51] 409	16.5	16.5	16.5 ✓		[400] 554	16.5	16.5	16.5 ✓	
[52] 14 ✓	17.0	17.0	17.0 ✓		[399]				
I 1974 ✓	16.5	16.0	16.5 ✓	16.7 ✓	~~(277)~~ * 610	16.5	17.0	17.0	16.7 ✓
(964) (296) 448	16.5	17.0	17.0	16.7 ✓	(966) 552	16.5	17.0	16.5	16.7 ✓
(709) (295) 447	16.0	16.5	16.5 ✓	16.2 ✓	I 1978	16.0	16.0	16.0 ✓	
(710) 599	17.5	~~16.5~~ 17.0	17.0	17.2 ✓	(963) 550	16.5	17.0	17.0	16.7 ✓
(711) 598	16.0	16.5	16.5	16.2 ✓	(962) 549	17.0	17.0	17.0 ✓	
(712) 597	17.0	17.0	17.0 ✓		(961) 548	16.5	16.5	16.5 ✓	
~~596~~	~~star~~				(960) 547	17.0	17.0	17.0 ✓	
(714) 590	17.0	17.0	17.0 ✓		(959) 546	17.0	17.5	17.5 ✓	17.2 ✓
(715) 594	17.0	17.0	17.0 ✓		(957) 545	17.0	17.5	17.2 ✓	
						~~16.0~~	~~17.5~~	~~16.8~~	~~16.4~~
391 ✓	16.5	16.5	16.5 ✓		~~544~~	star			
(965) 593	17.5	17.5	17.5 ✓		(719) 543	17.5	17.5	17.5 ✓	
(967) 590	17.0	17.0	17.0 ✓		(718) 542	17.0	17.5	17.5	17.2 ✓
(968) 591	17.0	17.0	17.0 ✓		(717) 541	17.5	17.0	17.0	17.2 ✓
(969) (313) 449	16.5	16.5	16.5 ✓		540	defect			
12 ✓	16.5	16.5	16.5 ✓		~~(944)~~ ~~566~~	~~17.0~~	~~17.0~~	~~17.0~~	see mag. Bk. H, p. 17
* ~~555~~	~~16.5~~	~~16.5~~	~~16.5~~	rejected	(955) 567 ✓	~~16.5~~ 17.5	17.5	17.5 ✓	
* ~~537~~	~~17.0~~	17.0	~~17.0~~	"	(956) 568	17.0	17.0	17.0 ✓	

* questionable. Images poor

F mag. determined on A 14269. Scratched on

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Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2
(971) 569	17.5	17.5	17.5				
(972) 570	17.0	17.0	17.0				
(973) 571	17.0	17.0	17.0				
~~572~~	~~17.0~~	~~17.0~~	~~17.0~~	rejected			
~~573~~	~~17.0~~	~~17.0~~	~~17.5~~	"			
(974) 574	17.0	17.0	17.0				
(974) 600	17.0	17.0	17.0				
(97F) 601	17.0	17.0	17.0				
~~8~~	2 stars						
7	16.5	16.5	16.5				
388	16.0	16.0	16.0				
~~(974) 576~~	~~17.0~~	~~17.0~~	~~17.0~~				
387	17.0	17.0	17.0				
* 385	17.0	17.0	17.0				
* 384	16.5	16.5	16.5				
~~383~~	2 stars						
6	17.0	17.0	17.0				

* Questionable

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1930phae.proj.234.TIF

17 14 27.2 (3 12 -0 2.5)

( ) corresponding nos. on 3339
( ) " " " 3346

Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2	Mean	
22	16.0	16.5	16.0	16.2	142	17.5	17.5	17.5	rejected
23	17.0	17.5	17.5	17.2	144	16.5	16.5	16.5	
24	~~17.0~~ 17.5	~~17.0~~ 18.0	18.0	17.4	143	16.5	16.5	16.5	
25	17.5	17.5	17.5		140	17.0	17.0	17.0	
102 ?	16.5	17.0	16.5	16.7	139	16.5	17.0	17.0	16.7
134	17.5	17.5	17.5		141	17.5	17.5	17.5	
133	16.5	17.0	17.0	16.7	146	16.5	17.0	16.5	16.7
132 ?	17.5	18.0	17.5	17.7	147	16.5	17.0	17.0	16.7
131	18.0	18.0	18.0		148	16.5	17.0	16.5	16.7
130	18.0	18.0	18.0		140	16.0	16.5	16.0	16.2
129	17.5	17.5	17.5		211	16.0	16.5	16.5	16.2
135	17.0	17.5	17.0	17.2	212	17.0	17.0	17.0	
136	17.0	17.0	17.0		200	16.0	16.5	16.0	16.2
103	16.5	16.5	16.5		201	17.0	17.0	17.0	
101	17.0	17.5	17.5	17.2	202	~~17.0~~	~~17.5~~	17.5	rejected
104	16.5	16.5	16.5		199	17.5	18.0	17.5	17.7
105	16.5	17.0	17.0	16.7	149	17.0	17.0	17.0	
106	16.5	17.0	16.5	16.7	150	17.0	17.0	17.0	
100 ?	16.5	17.0	17.0	16.7	128	17.5	17.5	17.5	
~~98~~ ?	not nebula				127	16.5	16.5	16.5	
99 ?	16.5	17.0	16.5	16.7	127a	16.5	16.5	16.5	
26	17.5	17.5	17.5		213	17.0	17.0	17.0	
21	16.5	17.0	17.0	16.7	210	16.5	17.0	17.0	16.7
27	16.0	16.5	16.5	16.2	209	16.5	17.0	16.5	16.7
20	17.5	18.0	18.0	17.7	208	16.5	17.0	17.0	16.7
19	17.5	17.5	17.5		207	17.0	17.0	17.0	
?? 1	16.5	17.0	16.5	16.7	206	16.5	17.0	16.5	16.7
2	16.5	16.0	16.0	15.7	205	16.0	16.5	16.0	16.2
137	16.5	16.0	16.5	15.7	204	16.5	17.0	16.5	16.7
* 138	13.5	13.5	13.5		203	17.0	17.5	17.0	17.2
					193	17.0	17.5	17.5	17.2

* mag. from 17 x 2149. Comp. star determined by count on the 9 plate

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Neb.	Mag. 1	Mag. 2	Mean	
194	17.5	17.0	17.0	17.2 ✓
195	16.5	16.5	16.5 ✓	
125	17.0	17.0	17.0 ✓	
126	17.0	17.0	17.0 ✓	
123	17.0	17.5	17.5	17.2 ✓
124	17.0	17.0	17.0 ✓	
~~151~~	~~17.5~~	~~17.5~~	~~17.5~~	rejected
109	17.0	17.0	17.0 ✓	
110	16.5	16.5	16.5 ✓	
~~111~~	~~17.0~~	~~17.0~~	~~17.0~~	rejected
113	16.5	17.0	17.0	16.7 ✓
96	17.0	17.5	17.5	17.2 ✓
~~95~~	star			
94	17.0	17.0	17.0 ✓	
236	17.0	17.0	17.0 ✓	
196	16.5	16.5	16.5 ✓	
197	17.5	17.5	17.5 ✓	
~~198~~	star			
237	16.0	16.0	16.0 ✓	
238	16.5	16.5	16.5 ✓	
241	16.5	17.0	17.0	16.7 ✓
239	17.0	17.5	17.5	17.2 ✓
240	16.5	16.5	16.5 ✓	
242	17.0	17.0	17.0 ✓	
243	17.0	17.0	17.0 ✓	
333	17.5	17.5	17.5 ✓	
~~390~~	~~17.5~~	~~17.5~~	~~17.5~~	rejected
192	17.0	17.0	17.0 ✓	
191	18.0	17.5	18.0	17.7 ✓
153	17.0	17.0	17.0 ✓	

Neb.	Mag. 1	Mag. 2	Mean	
82	16.5	17.0	16.5	16.7 ✓
187	16.5	17.0	17.0	16.7 ✓
188	16.5	17.0	16.5	16.7 ✓
189	16.5	17.0	17.0	16.7 ✓
~~190~~ #	17.0	17.5	17.5	17.2 rejected
245	16.5	16.5	16.5 ✓	
246	17.0	17.0	17.0 ✓	
332	16.5	17.0	17.0	16.7 ✓
331	16.5	17.0	16.5	16.7 ✓
330 #	17.0	17.5	17.0	17.2 ✓
392	17.0	17.0	17.0 ✓	
393 ?	17.5	17.0	17.5	17.2 ✓
rejected ~~394~~ #	17.0	17.0	17.0	17.2 ✓
112	16.0	16.5	16.5	16.2 ✓
120	17.0	17.0	17.0 ✓	
121	16.5	17.0	17.0	16.7 ✓
122	16.5	17.0	16.5	16.7 ✓
114	17.0	17.5	17.0	17.2 ✓
115	16.0	16.5	16.5 ✓	
116	17.0	17.0	17.0 ✓	
119	16.5	16.5	16.5 ✓	
117	16.5	16.0	16.5 ✓	
118	17.0	17.5	17.5	17.2 ✓
93	17.5	17.5	17.5 ✓	
92	17.0	17.0	17.0 ✓	
91	17.0	17.0	17.0 ✓	
90	17.0	17.0	17.0 ✓	
~~89~~	~~17.0~~	~~17.0~~	~~17.0~~ ✓	rejected
88	17.0	17.0	17.0 ✓	
87	17.5	17.5	17.5 ✓	
86	17.0	17.0	17.0	

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Neb.	Mag. 1	Mag. 2	Mean	
104	17.0	17.0	17.0	
105	17.0	17.0	17.0	
95	17.0	17.0	17.0	
84	16.5	17.0	17.0	16.4
71	17.0	17.5	17.5	17.2
107	17.0	17.5	17.0	17.2
108	16.5	17.0	16.5	16.4
97	17.5	17.5	17.5	
14	16.5	16.5	16.5	
67	17.0	17.0	17.0	
68	17.5	17.5	17.5	
63	16.0	16.0	16.0	
64	16.5	16.5	16.5	
60	17.0	17.0	17.0	
66	16.5	16.5	16.5	
61	17.0	17.0	17.0	
62	16.5	16.5	16.5	
28	17.0	17.0	17.0	
69	17.0	17.0	17.0	
70	17.0	17.0	17.0	
60	17.0	17.0	17.0	
~~60a~~	~~17.5~~	~~17.5~~	~~17.5~~	rejected
29	16.0	16.0	16.0	
58	17.5	17.5	17.5	
59	17.5	17.5	17.5	
15	16.5	17.0	17.0	16.4
16	17.0	17.5	17.5	17.2
~~17~~	~~17.5~~	~~17.5~~	~~17.5~~	2 stars
6	17.0	17.0	17.0	
~~5~~	~~17.0~~	~~17.0~~	~~17.0~~	2 stars
4	17.0	17.0	17.0	

Neb.	Mag. 1	Mag. 2	Mean	
3	16.5	17.0	17.0	16.4
7	16.5	16.5	16.5	
14	16.5	16.5	16.5	
30	16.5	17.0	16.5	16.4
57	16.5	16.0	16.0	15.4
56	16.0	16.5	16.5	16.4
55	18.0	18.0	18.0	
54	17.0	17.0	17.0	
53	17.0	17.0	17.0	
35	17.0	17.5	17.0	17.2
33	16.5	17.0	16.5	16.4
32	17.0	17.0	17.0	
~~32~~	duplicate			
34	17.0	17.5	17.0	17.2
73	17.0	17.0	17.0	
72	17.0	17.0	17.0	
31	17.5	17.5	17.5	
36??	17.0	17.0	17.5	17.2
37	16.5	16.0	16.0	16.2
~~52~~	~~17.0~~	~~17.0~~	~~17.0~~	rejected
74	15.5	15.5	15.5	
156	16.5	16.5	16.5	
~~157~~	17.0	17.0	17.0	
83	17.0	17.5	17.5	17.2
158	16.5	16.5	16.5	
159	16.0	16.0	16.0	16.2
164	16.0	16.5	16.5	
162	16.5	16.5	16.5	
160	17.5	17.0	17.5	17.2
161?	16.5	16.5	16.5	

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Neb.	Mag. 1	Mag. 2	Mean	
163	17.0	17.5	17.0	17.2
165	16.5	16.5	16.5	
166	17.0	17.0	17.0	
167	16.5	16.5	16.5	
186	17.0	17.5	17.5	17.2
251	16.5	16.5	16.5	
168	17.5	17.5	17.5	
168a	17.0	16.5	17.0	16.7
168b	17.5	17.0	17.5	17.2 rejected
170	17.0	17.0	17.0	17.2
42?	16.5	17.0	16.5	16.7
169	17.5	17.5	17.5	
394	17.0	17.0	17.0	
247	17.0	17.5	17.0	17.2
324	17.0	17.5	17.5	17.2
248	16.0	17.0	17.0	16.7
323	17.5	17.5	17.5	
329	16.5	17.0	16.5	16.7
328	17.5	17.5	17.5	
327	16.5	16.5	16.5	
326	16.5	16.5	16.5	
325	17.0	17.0	17.0	
250	16.5	17.0	17.0	16.7
249	17.5	17.5	17.5	
254	16.5	17.0	16.5	16.7
253	16.5	16.5	16.5	
252	17.0	17.0	17.0	
321	17.5	17.5	17.5	
255	17.0	17.5	17.0	17.2
257	17.0	17.5	17.5	17.2
256	17.0	17.0	17.0	
253	17.0	17.0	17.0	

Neb.	Mag. 1	Mag. 2	Mean	
259	17.5	17.5	17.5	
260	17.0	17.0	17.0	
320	16.5	17.0	17.0	16.7
185	16.5	16.5	16.5	
184	17.0	17.0	17.0	
183	17.5	17.5	17.5	
182	17.0	17.0	17.0	
181	16.5 (touching star)	16.5	16.5	
176	17.0	16.5	16.5	16.7
177	17.0	17.0	17.0	
178	16.5	17.0	17.0	16.7
179	17.0	17.0	17.0	
180	17.0	17.0	17.0	
260	17.5	17.5	17.5	
264	17.0	17.0	17.0	
263	17.0	17.0	17.0	
262	17.0	17.0	17.0	
261	18.0	17.5	17.5	17.7
300	16.5	17.0	17.0	16.7
171	17.0	17.0	17.0	
78	18.0	17.5	17.5	17.7
77	17.5	17.5	17.5	
76	16.5	16.5	16.5	
79	17.0	17.0	17.0	
80	17.0	17.0	17.0	
81	17.0	17.0	17.0	
40	16.5	16.5	16.5	
41	17.0	17.0	17.0	
42	17.0	17.0	17.0	
43	17.5	17.5	17.5	rejected

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#14272

Neb.	Mag. 1	Mag. 2	Mean	
70	16.5	16.5	16.5	
11	17.0	17.0	17.0	17.2
10	two stars??			
12	17.0	17.0	17.0	
13	16.5	16.5	16.5	
8	17.0	17.0	17.0	
9	16.5	17.0	16.5	16.7
39	16.5	16.5	16.5	
38	17.0	17.0	17.0	
44	16.5	16.5	16.5	
45	17.0	17.0	17.0	
46	17.0	17.0	17.0	
2 stars? 47??	17.0	17.0	17.0	
48	17.0	17.0	17.0	
49	16.5	16.5	16.5	
50	17.0	17.0	17.0	
51	16.5	16.5	16.5	
172	17.0	17.0	17.0	
173	17.5	17.5	17.5	
174	17.5	17.5	17.5	
175	17.5	17.5	17.5	
269	17.0	17.0	17.0	
270	17.5	17.5	17.5	
271	15.0	15.0	15.0	15.2
272	17.0	17.0	17.0	
273	17.0	17.5	17.5	17.2
274	17.0	17.5	17.0	17.2
* 275	17.0	17.0	17.0	
277	16.5	16.5	16.5	
278	16.5	16.5	16.5	

Neb.	Mag. 1	Mag. 2	Mean	
279	17.0	17.0	17.0	
280	17.5	17.5	17.5	
281	16.5	16.5	16.5	
282	17.0	17.5	17.5	17.2
283	17.5	17.5	17.5	
293	17.5	17.5	17.5	
I 1877	16.0	16.0	16.0	
291	17.5	17.5	17.5	
292	17.0	17.0	17.0	
293	star			
294	18.0	18.0	18.0	
295	17.0	17.0	17.0	
296	17.0	17.0	17.0	
297	17.5	17.5	17.5	
297a	17.5	17.5	17.5	
298	17.0	17.0	17.0	
300	18.0	18.0	18.0	
432?	17.0	17.5	17.0	17.2
433?	17.5	18.0	17.5	17.7
434	17.0	17.5	17.0	17.2
435	17.0	17.0	17.0	
436	17.0	17.5	17.5	17.2
437	16.5	17.0	17.0	16.7
451	16.5	17.0	16.5	16.7
452	16.5	16.5	16.5	
453	16.5	16.5	16.5	
454	17.5	17.5	17.5	
455	16.5	16.5	16.5	
(198) * 53	16.0	16.0	16.0	
301	17.5	17.5	17.5	
302	17.0	17.0	17.0	

* Mag. measured on #4179 as film is chipped on 14272. * From #3346

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Neb.	Mag.1	Mag.2	Mean		Neb.	Mag.1	Mag.2	Mean	
303	16.0	16.5	16.0	16.2	429	17.0	17.0	17.0	
304	17.0	17.5	17.5	17.2	~~456~~	16.5	16.5	16.5	
310	17.5	18.0	18.0	17.7	456a ~~467~~ 456b	16.5	16.5	16.5	
311	17.5	17.5	17.5		~~468~~	17.5	17.5	17.5	
312	16.5	16.5	16.5		458	17.5	17.5	17.5	
313	17.0	17.0	17.0		469	17.0	17.0	17.0	
314	17.0	17.5	17.5	17.2	* 71 (178) ~~* 6~~	16.0	16.0	16.0	
315	17.0	17.5	17.0	17.2	322	16.0	15.5	~~16.0~~ 15.7	
316	17.0	17.5	17.5	17.2	420	17.5	17.5	17.5	
266	16.5	17.0	17.0	16.7	I1878	16.0	15.5	15.5	15.7
267	17.0	17.5	17.5	17.2	I1879	16.0	16.0	16.0	
268	17.0	17.0	17.0		418	16.5	16.5	16.5	
276	18.0	18.0	18.0		419	17.0	17.5	17.0	17.2
306	17.0	17.0	17.0		470	17.0	17.5	17.5	17.2
307	17.0	17.5	17.0	17.2	471	17.5	17.5	17.5	
308	17.0	17.0	17.0		472	17.0	17.0	17.0	
309	16.5	16.5	16.5		473	17.0	17.0	17.0	
317	17.5	17.5	17.5		474	17.5	17.0	17.0	17.2
318	16.5	16.5	16.5		475	17.5	17.5	17.5	
319	17.5	17.5	17.5		417	16.5	17.0	16.5	16.7
430	15.5	15.5	15.5		416	17.0	17.5	17.0	17.2
431	17.5	17.5	17.5		415	17.5	18.0	17.5	17.7
421	17.0	17.0	17.0		414a ~~16.5~~ 414b	17.0	17.0	17.0	16.7
422	17.0	17.5	17.5	17.2	413	17.0	17.0	17.0	17.2
423	17.0	17.0	17.0		412	17.0	17.0	17.0	
424	16.5	16.5	16.5		411	17.5	17.5	17.5	
425	17.0	~~16.0~~ 17.5	17.0	17.2	410	17.5	17.5	17.5	
426	16.5	17.0	16.5	16.7	409	17.0	17.0	17.0	
427	17.5	17.5	17.5		478	17.0	16.5	17.0	16.7
428	16.5	16.5	16.5		477	17.0	16.5	16.5	16.7
					476	17.0	16.5	17.0	16.7

* From A2346

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Neb.	Mag. 1	Mag. 2	Mean	
391	16.5	16.5	16.5	
396	17.0	17.0	17.0	
390	17.0	17.0	17.0	
407	17.5	18.0	17.5	17.4
408	16.5	17.0	17.0	16.7
479	17.0	17.0	17.0	
480	17.0	17.0	17.0	
496	17.0	17.5	17.5	17.2
499	17.0	17.5	17.0	17.2
500	17.0	17.0	17.5	
508	17.0	17.0	17.0	
611	16.5	16.5	16.5	
610	16.5	16.5	16.5	
613	17.0	17.0	17.0	
612	17.0	17.0	17.0	
608	16.5	16.5	16.5	
609	17.0	17.0	17.5	17.2
606	16.5	16.5	16.5	
607	17.0	17.0	17.5	
510	16.0	16.0	16.0	
509	16.5	17.0	17.0	16.7
511	17.0	17.0	17.0	17.2
* 614	16.5	16.5	16.5	
620	16.5	17.0	17.0	16.7
616	16.5	16.5	16.5	
617	17.0	17.0	17.0	
N1249	12.3 - A.A.			
503	16.5	17.0	16.5	16.7
507	16.5	17.0	17.0	16.7
502	16.5	17.0	16.5	16.7

Neb.	Mag. 1	Mag. 2	Mean	
506	17.0	17.0	17.0	
495?	17.0	17.0	17.0	
494	16.5	16.0	16.0	16.2
501	16.0	16.0	16.0	
405	16.5	16.5	16.5	
482	17.0	17.0	17.0	
481	17.0	17.0	17.0	
406	16.5	16.5	16.5	
404	16.5	16.5	16.5	
403	17.0	17.0	17.0	
402	17.0	17.0	17.0	
401	17.0	17.0	17.0	
400	17.0	17.0	17.0	
399	16.5	16.5	16.5	
398	17.0	17.0	17.0	
397	17.5	17.0	17.5	17.2
389	18.0	18.0	18.0	
388	16.5	16.5	16.5	
~~390~~	~~17.0~~	star		
382	17.0	17.0	17.0	
383 ?	17.0	17.5	17.0	17.2
384	17.0	17.5	17.5	
385	17.0	17.5	17.5	17.2
386	17.0	17.5	17.0	17.2
387	18.0	18.0	18.0	
487	17.5	17.5	17.5	
488	17.5	17.5	17.5	
489	16.5	16.5	16.5	
380	17.0	17.0	17.0	
381	16.5	16.5	16.5	

* Involved in the outer nebulosity of N1249. A separate nebula?

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Neb.	Mag. 1	Mag. 2	Mean	
HF3	16.5	16.5	16.5	
484	17.5	18.0	17.5	17.7
485	17.0	17.0	17.0	
486	17.0	17.0	17.0	
491	17.5	17.5	17.5	
492	17.5	17.5	17.5	
493	17.5	17.5	17.5	
504	16.5	16.5	16.5	
625	16.5	17.0	17.0	16.7
618	17.5	17.5	17.5	
619	17.5	17.5	17.5	
620	17.0	17.5	17.5	17.2
621	17.5	17.5	17.5	
622	17.0	17.5	17.0	17.2
623	17.5	17.5	17.5	
624	17.0	17.5	17.5	17.2
490	17.5	18.0	18.0	17.7
667 ?	17.5	17.5	17.5	
666	17.5	18.0	17.5	17.7
665	17.0	17.5	17.0	17.2
664	17.5	17.5	17.5	
626	17.0	17.5	17.5	17.2
627	17.0	17.5	17.0	17.2
628	16.5	17.0	16.5	16.7
644	17.5	17.5	17.5	
643	17.0	17.0	17.0	
642	17.0	17.0	17.0	
641	17.5	17.0	17.0	17.2
640	17.5	17.5	17.5	
645	16.5	17.0	~~17.0~~ 16.5	16.7

Neb.	Mag. 1	Mag. 2	Mean	
663	16.0	16.0	16.0	
662	16.5	17.0	17.0	16.7
661	17.5	17.5	17.5	
648	17.0	17.5	17.5	17.2
647	17.0	17.5	17.0	17.2
646	17.0	17.5	17.5	17.2
639	17.0	17.5	17.0	17.2
I1896	15.0	16.0	15.5	15.2
638	17.0	17.0	17.0	
637	17.0	17.0	17.0	
636	17.0	17.5	17.0	17.2
630	16.5	17.0	16.5	16.7
634	17.0	17.0	17.0	
630	17.5	17.5	17.5	
376	16.5	16.5	16.5	
629	17.5	17.5	17.5	
633	17.0	16.5	17.0	16.7
632	17.0	16.5	16.5	16.7
631	17.0	17.0	17.0	
379	18.0	17.5	18.0	17.7
378	17.0	16.5	16.5	16.7
234	17.0	17.5	17.0	17.2
233	17.5	17.5	17.5	
232	17.5	17.5	17.5	
231	17.0	17.0	17.0	
230	17.0	17.0	17.0	
229	17.5	17.5	17.5	
~~228~~	17.5	17.5	17.5	rejected
227	17.5	17.0	17.5	17.2
226	17.0	16.5	17.0	16.7

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Neb.	Mag.1	Mag.2	Mean	
~~335~~	17.0	16.5	16.5	16.4
334	17.5	17.0	17.0	17.2
340	16.5	16.5	16.5	
377	17.0	16.5	16.5	16.4
~~339~~				
338	16.5	16.5	16.5	
337	17.0	17.0	17.0	
336	17.0	17.0	17.0	
220?	17.5	18.0	18.0	17.7
~~224~~??	~~18.0~~	~~not neb.~~		
~~223~~	~~17.5~~	~~18.0~~	~~17.7~~	rejected
222	16.5	16.5	16.5	
221	16.5	16.5	16.5	
220	17.0	17.5	17.5	17.2
219	17.0	17.5	17.0	17.2
~~218~~				
~~217~~				
216	16.5	16.5	16.5	
~~215~~	~~16.5~~	~~16.5~~	~~16.5~~	2 stars
214	17.0	16.5	16.5	16.7
347	17.0	17.0	17.0	
346	17.0	17.0	17.0	
345	16.5	16.5	16.5	
344	16.0	16.5	16.0	16.2
343	16.5	17.0	16.5	16.7
342	17.0	17.5	17.0	17.2
348	17.5	17.5	17.5	
349	17.5	17.5	17.5	
350	17.5	17.5	17.5	
351?	16.0	17.0	16.5	16.7

Neb.	Mag.1	Mag.2	Mean	
352	17.5	17.0	17.0	17.2
353	17.0	17.0	17.0	
354	17.0	17.5	17.5	17.2
355	17.0	17.0	17.0	
362	17.5	17.5	17.5	
363	17.5	17.0	17.0	17.2
364	17.0	17.0	17.0	
365	17.0	16.5	16.5	16.7
366	16.5	16.0	16.0	16.2
367	16.5	16.0	16.5	16.2
341?	17.5	17.5	17.5	
356	18.0	17.5	18.0	17.7
~~357~~	~~17.0~~	~~17.0~~	~~17.0~~	star
369?	17.0	17.0	17.0	
370	17.5	17.5	17.5	
371	16.5	16.5	16.5	
372	15.5	15.5	15.5	
373	16.5	17.0	16.5	16.7
374	16.0	16.5	16.0	16.2
375	17.5	17.5	17.5	
358	16.5	16.5	16.5	
359	17.0	17.0	17.0	
360	16.5	17.0	16.5	16.7
361	16.5	16.5	16.5	
368	16.5	16.5	16.5	
649	16.5	17.0	17.0	16.7
650	17.5	17.5	17.5	
651	17.5	17.5	17.5	
652	18.0	18.0	18.0	
653	17.0	17.0	17.0	

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1930phae.proj.2340M

Neb.	Mag. 1	Mag. 2	Mean	
654	17.0	17.0	17.0	
~~655~~	~~star~~	~~+6~~		
674	17.0	16.5	16.5	16.7
673	17.0	17.0	17.0	
676	17.5	17.5	17.5	
675	17.0	17.0	17.0	
672	17.0	17.0	17.0	
656	17.5	17.0	17.0	17.2
657	17.0	17.0	17.0	
658	16.5	16.5	16.5	
659	17.0	17.0	17.0	
660	17.5	17.5	17.5	
671	17.0	17.0	17.0	
670	17.5	17.0	17.5	17.2
668	17.5	17.5	17.5	
677	16.5	16.5	16.5	
~~722~~ ?	~~+6~~	~~star~~		
724	17.5	17.5	17.5	
725	17.5	17.5	17.5	
726	17.0	17.0	17.0	
727	17.5	17.0	17.0	17.2
728	17.0	17.0	17.0	
729	17.5	17.0	17.5	17.2
~~730~~ ??	~~17.0~~	~~17.0~~	~~17.0~~	2 stars
731	17.0	17.0	17.0	
732	16.5	16.5	16.5	
733	17.5	17.0	17.0	17.2
734 = I 1908	14.5	14.5	14.5	
734a	17.5	17.5	17.5	
735	16.0	16.0	16.0	
734b	18.0	18.0	18.0	
71F	17.0	17.0	17.0	
734c	16.5	16.5	16.5	

Neb.	Mag. 1	Mag. 2	Mean	
719	16.5	16.5	16.5	
720	17.0	17.0	17.0	
721	17.0	17.0	17.0	
722	16.0	16.5	16.5	16.2
899	17.5	18.0	18.0	17.7
898	17.0	17.5	17.5	17.2
736 ?	17.5	18.0	18.0	17.7
678	17.0	17.0	17.0	
679	17.5	17.5	17.5	
716	17.0	17.0	17.0	
717	17.5	17.5	17.5	
737	17.0	17.5	17.5	17.2
738	17.0	17.0	17.0	
739	17.0	17.0	17.0	
749	17.0	17.0	17.0	
750	17.0	17.0	17.0	
714	17.5	17.5	17.5	
715	17.0	17.0	17.0	
741	17.0	17.0	17.0	
743	17.5	17.5	17.5	
744	18.0	17.5	18.0	17.7
745	17.0	17.0	17.0	
746	17.0	17.0	17.0	
747	17.5	17.5	17.5	
748	17.0	17.0	17.0	
751	17.0	17.0	17.0	
680	17.5	17.5	17.5	
681	16.5	16.5	16.5	
682	17.0	17.0	17.0	
712	17.0	17.0	17.0	

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A 14272

Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2	Mean	
711	17.5	17.0	17.5	17.2	646	17.0	17.0	17.0	
710	17.5	17.5	17.5		643	16.5	16.5	16.5	
713	17.5	17.5	17.5		644	16.5	16.5	16.5	
709	17.5	17.5	17.5		658 a	17.0	17.0	17.0	
708	17.5	17.5	17.5		657	16.5	16.5	16.5	
707 ?	17.5	17.5	17.5		656	17.0	17.0	17.0	
696	17.0	17.0	17.0		658 b	17.5	17.5	17.5	
694 a	16.5	16.5	16.5		702	17.5	17.5	17.5	
693	16.0	16.0	16.0		658 c	15.5	15.5	15.5	
692	17.0	17.0	17.0		703	18.0	17.5	17.7	17.7
691	16.5	16.5	16.5		651	17.0	17.0	17.0	
683	16.5	16.5	16.5		652	17.0	17.0	17.0	
684	16.5	16.5	16.5		653	17.5	17.5	17.5	
685	17.0	17.0	17.0		650	17.0	17.0	17.0	
690	17.0	17.0	17.0		649	17.5	17.5	17.5	
689	17.5	17.5	17.5		648	16.5	16.5	16.5	
688	18.0	18.0	18.0		604	17.0	17.0	17.0	
687	17.0	17.0	17.0		603	17.5	17.5	17.5	
686	17.0	17.0	17.0		602	18.0	18.0	18.0	
685	17.0	17.5	17.0	17.2	601	17.0	17.0	17.0	
605	17.0	17.0	17.0		698	16.5	17.0	17.0	16.7
697	18.0	17.5	17.5	17.7	701	17.0	17.0	17.0	
706	17.0	17.0	17.0		700	17.0	17.5	17.5	17.2
705	17.0	17.0	17.0		600	16.5	16.5	16.5	
704	17.5	17.5	17.5		599	17.0	17.0	17.0	
742	17.5	17.5	17.5		699	17.0	17.0	17.0	
740	star				(137) * 9 close	17.0	17.0	17.0	
754 ?	17.5	18.0	18.0	17.4	(177) * 10 N	16.5	16.5	16.5	
753	17.5	17.5	17.5		(130) * 11 N	16.5	16.5	16.5	
847	17.0	17.0	17.0		(131) * 12 N	16.5	16.5	16.5	
					520	16.5 / 17.0	16.5	16.5	

* from A 3346

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Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2	Mean	
521	17.5	17.5	17.5		576	17.0	17.0	17.0	
522	17.5	17.5	17.5		593	17.0	17.0	17.0	
497	17.0	17.0	17.0		(1914) * 51 N	16.0	16.0	16.0	
519	17.5	17.0	17.0	17.2	(1916) * 52 N	16.5	16.5	16.5	
518	17.5	17.0	17.5	17.2	596	16.5	16.5	16.5	
517	17.0	16.5	17.0	16.7	597	17.5	17.5	17.5	
516a	17.0	17.0	17.0		(2053) * 7 N	17.0	17.5	17.0	17.2
516b	17.5	17.0	17.5	17.2					
515	17.0	16.5	17.0	16.7	595	16.5	16.5	16.5	
514	17.5	17.0	17.5	17.2	594	16.5	16.5	16.5	
513	17.0	17.0	17.0		(1935) * 6 N	1025	16.0	1525	15.7
498	17.0	17.0	17.0		553	17.5	18.0	18.0	17.7
523	17.0	17.5	17.0	17.2	552	17.0	17.5	17.5	17.2
556	17.5	17.0	17.5	17.2	550	17.0	17.0	17.0	
557	17.5	17.0	17.0	17.2	540	17.5	17.0	17.0	17.2
558	16.5	16.5	16.5		543	17.5	17.5	17.5	
562	17.5	17.0	17.5	17.2	544	17.0	17.0	17.0	
561	17.0	16.5	17.0	16.7	545	16.5	16.5	16.5	
560	17.5	17.5	17.5		546	17.0	16.5	16.5	16.7
559	17.5	17.5	17.5		541	16.5	16.5	16.5	
512	16.5	16.5	16.5		542	16.5	16.5	16.5	
563	17.5	17.0	17.5	17.2	521	16.5	16.5	16.5	
553	17.0	17.0	17.0		527	16.5	16.5	16.5	
534	17.5	17.0	17.0	17.2	528a	16.5	16.5	16.5	
549	17.5	17.5	17.5		528b	17.5	17.5	17.5	
548	17.5	17.0	17.5	17.2	529	17.5	17.5	17.5	
547	17.0	16.5	17.0	16.7	530	17.5	17.0	17.0	17.2
524	17.5	17.5	17.5		538	17.5	17.0	17.5	17.2
525	17.0	17.0	17.0		539	17.5	17.0	17.0	17.2
(235) * 8 N	15.5	16.0	15.5	15.7	531	17.5	17.5	17.5	
564	17.5	17.5	17.5		537	17.0	17.0	17.0	
					533	17.0	17.0	17.0	

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Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2	Mean	
537	17.0	17.5	17.5	17.2	(229) * 35 N	16.0	16.0	16.0	
536	17.5	18.0	18.0	17.7	(162) * 36 N	16.5	16.5	16.5	
535	17.0	17.5	17.5	17.4	(228) * 45 N	16.0	16.5	16.0	16.2
534	17.0	17.0	17.0		448	16.5	16.5	16.5	
533	17.5	17.5	17.5		447	17.5	17.5	17.5	
566	16.5	16.5	16.5		446	17.0	17.5	17.5	17.2
567	17.0	17.5	17.0	17.2	445	17.0	17.0	17.0	17.2
~~568~~ ?	defect				449	18.0	17.5	17.5	17.7
460	17.0	17.0	17.0		450	17.0	17.0	17.0	
459	16.5	16.5	16.5		299	17.5	17.5	17.5	
592	16.5	16.5	16.5		(224) * 46	16.5	16.5	16.5	duplicated as 224 on p. 124
785	17.0	17.0	17.0		444	17.0	17.5	17.0	17.2
784	17.0	17.0	17.0		443	17.0	17.5	17.5	17.2
(231) * 47 N	16.5	16.5	16.5		442	16.5	16.5	16.5	
(173 74) * 48 N	16.5	16.5	16.5		441	17.0	17.0	17.0	
(193) * 49 N	16.5	16.5	16.5		440	17.5	17.5	17.5	
(192) * 50 N	17.0	16.5	16.5	16.7	438	17.5	18.0	18.0	17.7
NOT NEB. ~~468~~	17.0	17.5	17.0	17.2	288	17.5	17.5	17.5	
461 ?	17.0	17.0	17.0		289	17.5	17.5	17.5	
569	17.0	17.0	17.0		(221) * 0	16.5	16.5	16.5	as above
591	17.5	17.5	17.5		(219) * 2	16.0	16.5	16.5	16.2 as above
590	17.0	16.5	16.5	16.7	(218) * 4	16.0	16.0	16.5	as above
572	17.0	17.0	17.0		284	16.5	16.5	16.5	
571	16.5	16.5	16.5		285	16.5	16.5	16.5	
570	16.5	16.5	16.5		286	16.5	16.5	16.5	
589	17.5	17.5	17.5		287	16.0	16.0	16.0	
* 67 N (163)	15.5	15.5	15.5		(199) * 3	16.0	16.5	16.5	as above 16.2
* 66 N (200)	17.0	17.0	17.0		903 ?	17.5	17.5	17.5	
* 33 N (141)	16.5	16.5	16.5		1006	17.0	17.0	17.0	
* 34 N (190) N	16.5	16.5	16.5		804	17.0	17.5	17.0	17.2

* from A 5346

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Neb.	Mag. 1	Mag. 2	Mean	
805	17.0	17.0	17.0	
806	17.0	17.0	17.0	
807?	17.5	17.0	17.5	
796	17.0	17.5	17.5	17.4
795	17.0	17.5	17.0	17.2
794	16.5	16.5	16.5	
793	17.0	17.5	17.5	17.4
792	16.5	16.5	16.5	
791	16.5	16.5	16.5	
787	17.0	17.5	17.0	17.2
788	15.5	15.5	15.5	
789	17.0	17.0	17.0	
790	17.0	17.5	17.5	17.4
784a	17.0	17.5	17.2	
786	17.0	17.5	17.0	17.2
809	16.5	17.0	16.5	16.7
808	17.5	17.5	17.5	
810	17.0	17.5	17.0	17.2
~~811 = 784a~~	~~17.0~~	~~17.5~~	~~17.5~~	~~17.2~~
812	17.0	17.5	17.0	17.2
813	17.0	17.5	17.5	17.2
815	17.0	17.0	17.0	
~~(138) (127) * 30~~	~~16.5~~	~~16.5~~	~~16.5~~	duplicated as 138 on p. 127
~~(117) * 31~~	~~16.5~~	~~17.0~~	~~17.0~~	~~16.7~~ as above
(136) * 32 N	16.5	17.0	16.5	16.7
(140) * 77 N	17.0	17.0	17.0	
(251) ~~(140)~~ * 76 N	16.0	16.5	16.0	16.2
(164) * 75 N	16.5	16.5	16.5	
822	17.0	17.0	17.0	
821	18.0	18.0	18.0	
820	17.5	17.5	17.5	

Neb.	Mag. 1	Mag. 2	Mean	
819	17.0	17.5	17.5	17.2
818	17.0	17.5	17.0	17.2
817	16.5	17.0	16.5	16.7
816	17.5	18.0	18.0	17.7
~~(260) * 29~~	~~16.5~~	~~16.5~~	~~16.5~~	duplicated as 260, p. 132
814	17.0	17.0	17.0	
823	16.5	17.0	16.5	16.7
824	17.0	17.0	17.0	
825	17.5	17.0	17.0	17.2
826	17.5	17.5	17.5	
827	17.0	17.0	17.0	
828	17.5	17.0	17.5	17.2
829	17.0	17.5	17.0	17.2
~~(257) * 26~~	~~17.0~~	~~16.5~~	~~16.5~~	~~16.7~~ as above
~~(126) * 27~~	~~16.5~~	~~16.5~~	~~16.5~~	as above
~~(180) * 28~~	~~17.0~~	~~16.5~~	~~17.0~~	~~16.7~~ as above
~~(254) * 91~~	~~17.0~~	~~17.0~~	~~17.0~~	as above
709?	17.0	17.5	17.5	
760?	17.5	17.5	17.5	
831	17.5	17.5	17.5	
830	17.5	18.0	17.5	17.7
798	17.0	16.5	17.0	16.7
781	17.0	17.0	17.0	
782	17.0	17.0	17.0	
783a	16.5	16.5	16.5	
783b	16.5	16.5	16.5	
(202) * 72 N	17.0	17.0	17.0	
(201) * 20	16.0	16.0	16.0	as above
(254) * 21	16.5	16.5	16.5	as above
1005	17.0	17.0	17.0	
1004	17.0	17.0	17.0	

* From A3346

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A14272

Neb.	Mag. 1	Mag. 2	Mean		Neb.	Mag. 1	Mag. 2	Mean	
1003	16.5-	16.5-	16.5		(176a) *14 N	16.5-	16.5-	16.5	
1002	17.0	17.0	17.0		(128) *13 N	15.5-	16.0	16.6	15.4
1001	17.5-	17.5-	17.5-		(241) *71 N	17.0	17.0	17.0	
1000	17.5-	17.5-	17.5		(176b) *74 N	17.0	17.0	17.0	
R34	17.5-	17.0	17.3-	17.2	(342) ∓ 8	17.0	17.0	17.0	
R33	17.0	17.0	17.0		(326) ∓ 6	16.0	16.0	16.0	
*18 N (133)	17.0	17.0	17.0		(327) ∓ 1	15.0	15.0	15.0	
*19 N (132)	16.5-	16.5-	16.5		(c) ∓ 2	16.0	16.0	16.0	
*73 (255a)	17.0	17.0	17.0	duplicate of 255a, p.127	(b) ∓ 3	16.0	16.5-	16.5-	16.2
*74 (255b)	17.0	17.0	17.0	as above	(a) ∓ 4	16.0	16.5-	16.0	16.2
*22 (251)	17.0	16.5-	17.0	16.7 as above	998	18.0	18.0	18.0	
*78 (255)	17.5-	17.5-	17.5-	as above	997	17.5-	17.5	17.5	
*23 (252)	16.5-	16.5	16.5-	as above	(322) ∓ 31	16.5-	16.5-	16.5	
*24 (181)	16.0	15.5-	15.5-	15.7 as above	996	17.0	17.0	17.0	
*25 (256)	17.0	17.5-	17.0	17.2 as above	994?	17.0	17.0	17.0	
N1311	13.0	13.0	13.0		995	17.0	17.0	17.0	
R32	17.5-	17.5-	17.5-		993	17.0	17.0	17.0	
R30	17.0	17.0	17.0		(341) ∓ 20	16.0	16.5	16.5-	16.2
R36	17.5-	17.5-	17.5-		992	17.5-	17.0	17.0	17.2
R37?	17.0	16.5-	16.5	16.7	991	17.0	17.0	17.0	
R42	17.5-	18.0	18.0	17.7	990	17.5-	17.5-	17.5	
R38	17.5-	17.5-	17.5-		(318) ∓ 30	16.5-	16.5-	16.5	
R41	17.5-	17.5-	17.5-		989	17.0	17.0	17.0	
R39	star				988	16.5-	16.5-	16.5	
R40	17.0	17.5-	17.5-	17.2	987?	17.5-	17.5-	17.5	
R43	17.5-	17.5	17.5		986	17.0	17.0	17.0	
999	17.5-	17.5-	17.5		(340a) ∓ 24	16.5-	16.5-	16.5	
*17 (170) N	16.5-	16.5	16.5-		R37	17.0	17.0	17.0	
*16 (242) N	17.0	17.0	17.0		R56	17.0	17.0	17.0	
*15 (171) N	16.0	16.0	16.0		R55	17.0	17.0	17.0	

* from A3346

∓ from A3339

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Neb.	Mag.1	Mag.2	Mean	
854	17.5	17.5	17.5	
858	17.5	17.5	17.5	
(325)F 9	16.0	16.0	16.0	
703	17.0	17.0	17.0	
702	17.0	17.0	17.0	
895 ?	17.0	17.0	17.0	
894 ?	18.0	17.5	17.5	17.7
900	18.0	17.5	18.0	17.7
901	17.0	17.0	17.0	
902	18.0	17.5	17.5	17.7
903 ??	18.0	18.0	18.0	
904	17.5	17.5	17.5	
905	17.0	17.0	17.0	
906 ?	17.0	17.5	17.0	17.2
~~907~~	star			
908	17.0	16.5	16.5	16.7
909	16.5	16.5	16.5	
910	17.5	17.0	17.0	17.2
911	17.5	17.0	17.5	17.2
912	18.0	17.5	18.0	17.7
913	16.5	16.5	16.5	
914	17.5	17.5	17.5	
(328)F 13	14.5	14.5	14.5	
942 ?	17.0	16.5	16.5	16.7
(262)F 31	17.0	16.5	17.0	16.7
938	17.0	17.0	17.0	
937	16.5	16.5	16.5	
939	16.5	16.5	16.5	
941	17.5	17.0	17.5	17.2
940 ?	17.0	16.5	17.0	16.7

7 From A3339

Neb.	Mag.1	Mag.2	Mean	
936 ?	17.0	17.0	17.0	
930	17.5	17.5	17.5	
930	16.5	16.5	16.5	
931	16.5	16.5	16.5	
928	16.5	17.0	16.5	16.7
929	17.0	17.0	17.0	
927	17.0	16.5	17.0	16.7
(263a)F 26	16.0	16.0	16.0	
932	16.5	~~16.5~~ 17.0	16.5	16.7
926	17.0	16.5	17.0	16.7
933	17.0	17.0	17.0	
934	16.5	16.5	16.5	
915	17.0	17.0	17.0	
916	16.5	16.5	16.5	
917	16.5	16.5	16.5	
918	16.5	16.5	16.5	
919	16.5	16.5	16.5	
920	17.5	17.5	17.5	
921	17.0	16.5	16.5	16.7
922	16.5	16.5	16.5	
923	16.5	16.5	16.5	
924	16.5	16.5	16.5	
925	15.5	16.0	16.0	15.7

Magnitudes of the cluster on this plate in Book 6, pp. 67. (264)*

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1930phae.proj.224QM

Nos. in green ( ) correspondng nos. on 73346

A14280 3 32 −47.5

Neb.	Mag. 1	Mag. 2	Mean
6	17.5	17.5	17.5
35	17.5	17.5	17.5
34	18.0	17.5	17.7
33	17.5	17.5	17.5
32	17.5	18.0	17.7
5	17.0	17.0	17.0
60	17.5	17.5	17.5
61	17.5	17.5	17.5
62	17.5	17.5	17.5
63	17.5	17.5	17.5
64	17.0	17.0	17.0
65	16.0	16.0	16.0
66	17.0	17.0	17.0
67	16.5	16.5	16.5
136	17.0	17.5	17.2
37	16.5	16.5	16.5
38	17.0	16.5	16.7
39	17.5	17.0	17.2
58	17.5	17.5	17.5
59	17.5	17.5	17.5
68	17.0	17.0	17.0
69	17.5	17.5	17.5
70	17.5	17.5	17.5
71	17.0	17.0	17.0
72	17.5	17.5	17.5
(269)* 1 N	17.0	17.5	17.2

Neb.	Mag. 1	Mag. 2	Mean
(268)* 2 N	17.0	17.5	17.2
Classify (270)* 3	17.0	17.0	17.0
(142)* 4 N	16.5	16.5	16.5
(148)* 5 N	16.0	16.0	16.0
(272)* 6 N	16.5	16.5	16.5
60	17.5	17.5	17.5
(273) 153 N	16.5	16.5	16.5
154	17.5	17.5	17.5
155	17.0	17.0	17.0
156	17.5	17.0	17.2
I 1937	15.0	15.5	15.2
a1	~~18.0~~	~~18.0~~	~~18.0~~ rejected
N.S. 1	17.5	17.5	17.5
170a	17.5	17.5	17.5
171	17.5	17.5	17.5
172	17.5	17.5	17.5
170b	18.0	18.0	18.0
169	17.5	17.5	17.5
121	17.0	17.0	17.0
123	18.0	17.5	17.7
124	17.5	17.5	17.5
120	17.0	17.0	17.0
126	17.5	~~17.5~~ 18.0	17.7
127	17.0	17.5	17.2
128	17.5	17.5	17.5

* from 73346

□ doubted by N.S.

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Neb.	Mag.1	Mag.2	Mean
129	17.5	18.0	17.7
131	17.5	17.5	17.5
122	17.5	17.5	17.5
130	17.0	17.0	17.0
132	17.5	17.5	17.5
133	17.5	17.5	17.5
134	18.0	17.5	17.7
73	17.5	17.5	17.5
74	17.5	17.5	17.5
75	17.5	17.5	17.5
76	17.5	17.5	17.5
56	17.5	17.5	17.5
57	17.5	17.5	17.5
45	17.0	17.0	17.0
40	17.5	17.5	17.5
41	18.0	17.5	17.7
42	17.0	17.5	17.2
43	17.0	17.5	17.2
31	17.0	17.0	17.0
1	17.5	17.5	17.5
2	17.0	17.0	17.0
3	17.5	17.5	17.5
4	17.0	17.5	17.2
8	17.0	17.5	17.2
9	17.5	17.5	17.5

Neb.	Mag.1	Mag.2	Mean
10	17.5	17.5	17.5
11	17.0	17.0	17.0
12	17.0	17.5	17.2
13	17.0	17.5	17.2
14	17.0	17.0	17.0
28	17.5	17.5	17.5
29	17.0	17.0	17.0
30	17.5	17.5	17.5
110	17.5	17.5	17.5
111	17.0	17.0	17.0
112	17.0	17.0	17.0
113	17.5	17.5	17.5
55	18.0	18.0	18.0
77	16.5	16.5	16.5
78	17.5	17.5	17.5
79	16.5	16.5	16.5
80	17.0	17.5	17.2
83	17.0	17.5	17.2
84	17.0	17.0	17.0
85	17.0	17.0	17.0
86	17.0	17.0	17.0
119	18.0	18.0	18.0
120	18.0	18.0	18.0
135	17.0	17.0	17.0
177	17.0	17.0	17.0

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1990phae.proj.23.COM

Neb.	Mag. 1	Mag. 2	Mean
117	18.0	18.0	18.0
118	18.0	18.5	18.2
87	17.0	17.0	17.0
107	17.5	17.5	17.5
108	17.0	17.0	17.0
109	17.0	17.0	17.0
114	17.0	17.0	17.0
115	16.5	16.5	16.5
116	18.0	17.5	17.7
179	17.5	17.0	17.2
188	17.5	17.5	17.5
181	17.5	17.5	17.5
180	17.5	17.5	17.5
182	17.5	17.5	17.5
183	17.5	17.5	17.5
184	17.0	17.0	17.0
185	16.5	16.5	16.5
186	17.5	17.5	17.5
189	17.5	17.5	17.5
102	18.0	18.0	18.0
103	17.0	17.0	17.0
104	17.0	17.0	17.0
105	17.5	17.5	17.5
106	16.5	16.5	16.5
88	17.5	17.5	17.5
89	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean
90	18.0	18.0	18.0
91	17.0	17.0	17.0
92	18.0	17.5	17.7
93	17.5	17.5	17.5
81	17.5	17.5	17.5
87	17.0	17.0	repeated
44	17.5	17.5	17.5
21	17.0	17.0	17.0
22	17.5	17.5	17.5
23	17.5	17.5	17.5
15	17.0	17.5	17.2
16	16.5	17.0	16.7
17	16.5	17.0	16.7
18	17.0	17.0	17.0
19	17.0	17.0	17.0
20	17.5	17.0	17.2
24	17.0	17.5	17.2
25	17.5	17.5	17.5
26	16.5	17.0	16.7
27	17.5	17.5	17.5
7	17.0	17.5	17.2
7a	17.0	17.5	
44	duplicate		17.2
46	17.0	17.5	17.2
47	17.0	17.0	17.0
48	17.0	17.0	17.0

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Neb.	Mag. 1	Mag. 2	Mean
49a	17.0	17.5	17.2
49b	16.5	17.0	16.7
50	17.0	17.0	17.0
51	17.0	17.0	17.0
52	17.0	17.0	17.0
53	16.5	17.0	16.7
54	17.0	17.0	17.0
82	17.5	17.5	17.5
94	17.5	17.5	17.5
95	17.0	17.0	17.0
96	17.5	17.5	17.5
97	17.0	17.0	17.0
98	17.0	17.0	17.0
99	17.5	18.0	17.7
100	17.5	17.5	17.5
101	17.0	17.0	17.0
224	17.0	17.5	17.2
225	17.0	17.5	17.2
226	17.5	17.5	17.5
228	16.5	17.0	16.7
229	17.5	17.5	17.5
230	17.0	17.0	17.0
231	16.5	16.5	16.5
232	17.0	17.5	17.2
233	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean
234	17.5	17.5	17.5
235	17.0	17.0	17.0
236	17.0	17.0	17.0
237	17.5	17.5	17.5
238	16.5	17.0	16.7
239	17.0	17.5	17.2
240	16.5	17.0	16.7
I1969	16.5	16.5	16.5
421	17.5	17.5	17.5
189	18.0	17.5	17.7
190	17.0	17.0	17.0
191	17.5	17.5	17.5
192	17.0	17.0	17.0
193	17.0	17.0	17.0
194	17.0	17.0	17.0
195	18.0	18.0	18.0
196	16.5	16.5	16.5
197	17.0	17.0	17.0
198	16.5	16.5	16.5
199	16.5	17.0	16.7
200	17.0	17.5	17.2
201	17.0	17.0	17.0
202	17.0	17.0	17.0
203	16.5	16.5 ~~17.0~~	16.5
204	17.0	17.5	17.2

189 ~~has~~ slight defect in center

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1936phae.proj.231M

R14280

Neb.	Mag. 1	Mag. 2	Mean
205	18.0	17.5	17.7
206	17.5	17.5	17.5
207	17.0	17.0	17.0
208	17.5	17.5	17.5
209	17.5	17.5	17.5
210	17.5	17.5	17.5
211	18.0	18.0	18.0
212	16.5	16.5	16.5
213	17.5	17.5	17.5
214	17.5	17.0	17.2
215	17.0	17.0	17.0
216	17.0	17.0	17.0
217	17.5	17.5	17.5
218	17.5	18.0	17.7
219	17.5	18.0	17.7
220	18.0	18.0	18.0
221	17.5	17.5	17.5
222	18.5	18.5	18.5
223	18.0	17.5	17.7
178	17.5	17.5	17.5
260	17.0	17.0	17.0
261	17.5	18.0	17.7
330	18.5	18.0	18.2
331	17.5	17.0	17.2
332	18.0	18.0	18.0
333	18.0	18.0	18.0
334	17.0	17.5	17.2
335	17.5	17.5	17.5
336	17.0	17.0	17.0
337	17.0	17.0	17.0
262	17.5	17.5	17.5
263	17.5	17.0	17.2
264	17.5	17.5	17.5
265	17.0	17.0	17.0
266	18.0	18.0	18.0
272a	17.5	17.5	17.5
272b	18.0	18.0	18.0
273	17.0	16.5	16.7
274	17.5	17.5	17.5
270	17.0	17.5	17.2
269a	17.5	17.5	17.5
269b	17.5	17.5	17.5
270	18.0	18.0	18.0
271	18.0	17.5	17.7
276	17.5	17.5	17.5
277	17.5	17.0	17.2
278	17.0	17.0	17.0
321	17.5	17.5	17.5
267	17.5	17.5	17.5
268	17.5	17.5	17.5
173	17.5	17.5	17.5
(405) 174 N	13.5	13.5	13.5

174 very stellar in appearance

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1930phae.proj.2340M

Neb.	Mag. 1	Mag. 2	Mean
175	17.5	17.5	17.5
176	18.0	17.5	17.7
I1944	15.5	16.0	15.7
I1948	16.5	16.5	16.5
I1949	14.0	14.5	14.2
279	17.0	17.0	17.0
280	17.5	17.5	17.5
281	17.5	17.5	17.5
282	17.5	17.5	17.5
283	18.0	17.5	17.7
284	18.0	17.5	17.7
285	18.0	18.0	18.0
286	17.0	17.0	17.0
(H00) 287 N	16.5	16.5	16.5
(H01) 288 N	17.0	17.0	17.0
304	17.5	17.5	17.5
305	17.5	17.5	17.5
314	17.5	17.5	17.5
315	17.0	17.0	17.0
316	17.5	17.5	17.5
318	17.5	17.5	17.5
319	17.5	17.0	17.2
(H02) 320 N	17.5	17.0	17.2
322	17.0	16.5	16.7
323	17.5	17.0	17.2
324	17.5	17.5	17.5
356	17.5	17.5	17.5
(H03) *7 N	16.5	17.0	16.7
(H04) *8 N	16.5	17.0	16.7
(17) *9 N	16.0	16.5	16.2
(H06) *11 N	16.0	16.5	16.2
325	18.0	18.0	18.0
326	17.0	17.0	17.0
327	17.0	17.0	17.0
328	17.0	17.0	17.0
370	17.0	17.5	17.2
391	17.5	17.5	17.5
392	17.5	17.0	17.2
393	17.5	17.0	17.0
394	17.5	18.0	17.7
395	16.5	16.5	16.5
396	17.5	17.5	17.5
I1976	16.0	16.5	16.2
258	17.0	16.5	16.7
259	18.0	18.0	18.0
329	17.5	17.5	17.5
330	17.5	17.5	17.5
339	17.5	17.5	17.5
340	17.0	17.0	17.0
341	17.5	17.5	17.5
353	17.0	17.5	17.2

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1930phae.proj.234M

#14280

Neb.	Mag. 1	Mag. 2	Mean
334	17.0-	17.0-	17.0
335	17.0	17.0-	17.2
241	17.0-	17.0-	17.0-
242	17.0-	17.0-	17.0-
243	18.0	17.0-	17.4
244	17.0-	17.0-	17.0-
245	18.0	17.0-	17.4
246	17.0-	17.0-	17.0-
247	17.0	17.0	17.0
248	17.0-	17.0-	17.0-
249	17.0-	17.0-	17.0-
250	17.0	17.0	17.0
251	17.0-	17.0-	17.0-
252	17.0-	17.0-	17.0-
253	17.0	17.0	17.0
254	17.0-	17.0	17.2
255	17.0-	17.0-	17.0-
256	17.0-	17.0-	17.0-
257	17.0-	17.0-	17.0-
227	17.0-	17.0-	17.0-
345	17.0-	17.0-	17.0-
346	17.0-	17.0	17.2
347	17.0-	17.0-	17.0-
348	17.0-	17.0	17.2

Neb.	Mag. 1	Mag. 2	Mean
422	17.0-	17.0-	17.0-
423	16.0-	16.0-	16.0-
424	17.0-	17.0	17.2
I 1986	15.0-	15.0-	15.0
342	17.0-	17.0-	17.0-
343	17.0-	17.0	17.2
344	18.0	18.0	18.0
349	17.0-	17.0-	17.0-
350	17.0-	17.0-	17.0-
351	17.0-	17.0-	17.0-
352	17.0-	17.0-	17.0-
401	18.0	17.0-	17.4
402	18.0	18.0	18.0
403	17.0-	17.0-	17.0-
404	17.0-	17.0-	17.0-
405	17.0-	17.0	17.2
406	17.0-	17.0	17.2
407	17.0-	17.0-	17.0-
408	16.0-	16.0-	16.0-
409	16.0-	16.0-	16.0-
410	17.0	16.0-	16.4
411	17.0-	17.0-	17.0-
412	17.0-	17.0-	17.0-
413	17.0-	17.0-	17.0-

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29 +3

Neb.	Mag.1	Mag.2	Mean
H14	17.5	17.5	17.5
H15	17.0	17.0	17.0
H16	17.0	17.5	17.2
H00	17.5	17.5	17.5
H25	17.0	17.0	17.0
H26	17.5	17.5	17.5
H27	17.0	17.0	17.0
A	17.5	17.5	17.5
H06	17.5	18.0	17.7
K.A.2	17.5	17.5	17.5
H61	17.5	17.5	17.5
H62	17.0	17.5	17.2
H63	17.5	17.5	17.5
H64	17.5	17.5	17.5
H65	17.5	17.5	17.5
H17	17.0	17.0	17.0
H18	16.5	16.5	16.5
H19	16.5	16.5	16.5
H20	17.0	17.5	17.2
H28	17.5	17.5	17.5
H01	17.5	17.0	17.2
H02	17.0	17.0	17.0
H53	17.5	17.5	17.5
H54	18.0	18.0	18.0
H55	17.5	17.0	17.2

Neb.	Mag.1	Mag.2	Mean
H07	17.5	17.0	17.2
H08	16.5	16.5	16.5
H09	17.5	17.5	17.5
H60	16.5	16.5	16.5
H79	17.5	17.0	17.2
397	17.5	17.5	17.5
398	16.5	16.0	16.2
399	18.0	17.5	17.7
H29	17.5	17.5	17.5
H30	17.5	17.0	17.2
H31	17.0	16.5	16.7
509	17.5	17.5	17.5
390	17.5	17.5	17.5
N1433	11.4 (H.H.)		(11.4)
H32	17.5	17.5	17.5
H33	18.0	18.0	18.0
H34	18.0	18.0	18.0
H35	17.5	17.5	17.5
H36	18.5	18.0	18.2
H37	17.5	17.5	17.5
H38	17.0	17.0	17.0
I 1984	16.5	16.5	16.5
H49	17.5	18.0	17.7
H50	17.5	17.5	17.5
H80	17.5	17.5	17.5

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H 14280

Neb.	Mag. 1	Mag. 2	Mean
481	16.5-	17.0	16.7
482	17.0	17.5-	17.2
483	17.0	17.5-	17.2
484	17.0	17.5-	17.2
487	17.0	17.0	17.0
488	17.0	17.0	17.0
485	17.0	17.0	17.0
486	17.0	17.5-	17.2
487	17.0	17.0	17.0
488	17.0	17.5-	17.2
490	17.0	17.0	17.0
496	18.0	18.0	18.0
497	17.5-	17.5-	17.5-
307	17.5-	17.5-	17.5-
365	18.0	18.0	18.0
366	17.5-	17.5-	17.5-
367	17.0	16.5-	16.7
368	18.0	18.0	18.0
369	18.4-	18.3-	18.3
370	17.5-	17.5-	17.5
371	17.0	17.0	17.0
372	17.0	17.0	17.0
373	17.5-	17.5-	17.5-
374	17.5-	17.5-	17.5-
270-	repeated		

Neb.	Mag. 1	Mag. 2	Mean
376	17.5-	18.0	17.7
377	17.5-	18.0	17.7
378	17.5-	18.0	17.7
379	18.0	18.0	18.0
380	17.5-	17.5T	17.5
381	17.0	17.0	17.0
382	17.5-	17.5-	17.5
383	17.5-	18.0	17.7
384	17.0	17.5-	17.2
385	17.0	17.0	17.0
386	17.5-	17.5-	17.5
387	17.5-	17.5-	17.5
388	17.5-	17.5-	17.5
389	17.0	17.0	17.0
(407)* 10 N	16.5-	16.5-	16.5
445	18.5-	18.0	18.2
446	18.0	18.0	18.0
489	17.5-	17.5-	17.5
490	17.0	16.5-	16.7
491	17.0	17.0	17.0
492	17.5-	17.5-	17.5
494	17.5-	17.5-	17.5
I 2000	13.5-	14.0	13.7
I 2001	two stars - H. S.		
498	17.5-	18.0	17.7

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Neb.	Mag. 1	Mag. 2	Mean
503	18.0	18.0	18.0
504	17.5	17.5	17.5
I 2009	16.5	16.0	16.2
493	17.5	17.5	17.5
499	17.5	17.0	17.2
500	17.0	17.0	17.0
501	17.5	17.5	17.5
502	17.5	17.5	17.5
I 2004	~~16.0~~ 15.5	15.5	15.5
439	17.5	17.0	17.2
440	17.5	17.0	17.2
441	17.5	17.0	17.2
442	16.5	16.0	16.2
443	17.0	16.5	16.4
444	17.5	~~16.5~~ 17.0	17.2
→ N 1483	13.5	14.0	13.7
505	17.5	17.0	17.2
506	17.5	17.5	17.5
507	17.5	17.5	17.5
4707	17.5	17.5	17.5
476	18.0	18.0	18.0
477	17.5	18.0	17.7
478	17.0	17.5	17.2
508	17.5	17.5	17.5
466	17.0	16.5	16.7

Neb.	Mag. 1	Mag. 2	Mean
467	16.5	16.5	16.5
468	16.5	16.5	16.5
469	17.0	17.0	17.0
470	16.5	16.5	16.5
471	17.5	17.5	17.5
472	17.5	17.5	17.5
473	17.5	17.5	17.5
474	17.5	17.0	17.2 (11.8)
N 1448	11.8	H.A. = N 1457	
N.S. 3	17.5	17.5	17.5

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1930phae.proj.2340M

A 1411 3 30 −47.5

Neb.	Mag. 1	Mag. 2	Mean
70	17.0	17.0	17.0
80	17.0	17.0	17.0
81	17.0	17.0	17.0
82	16.5	16.5	16.5
84	16.5	16.5	16.5
89	17.0	16.5	16.7
91	17.0	17.0	17.0
86	16.5	16.5	16.5
114	17.0	17.0	17.0
110	16.5	16.5	16.5
116	16.0	16.0	16.0
117	16.5	16.5	16.5
118	17.0	16.5	16.7
119	16.5	16.5	16.5
139	17.0	17.0	17.0
95	16.5	16.5	16.5
96	16.0	16.5	16.2
97	16.5	16.5	16.5
7	17.0	17.0	17.0
105	16.0	16.0	16.0
109	17.0	17.0	17.0
110	17.5	17.5	17.5
120	17.0	17.0	17.0
121	16.0	16.5	16.2
122	16.5	17.0	16.7

Neb.	Mag. 1	Mag. 2	Mean
123	16.0	16.5	16.2
124	16.5	16.5	16.5
94	16.0	16.5	16.2
75	16.5	16.5	16.5
78	17.0	17.0	17.0
103	16.5	16.5	16.5
129	16.5	16.5	16.5
99	17.0	16.5	16.7
138	16.5	16.5	16.5
73	17.0	17.0	17.0
61	17.0	16.5	16.7
62	16.5	16.5	16.5
59	17.0	16.5	16.7
133	17.0	17.0	17.0
~~37~~	~~16.0~~	~~16.0~~	~~16.0~~
~~40~~	~~16.5~~	~~16.5~~	~~16.5~~
41	16.5	17.0	16.7
30	16.5	17.0	16.7
31	17.0	17.0	17.0
~~35~~	~~17.0~~	~~17.0~~	~~17.0~~
~~38~~	~~17.5~~	~~17.5~~	~~17.5~~
131	16.5	16.5	16.5
28	17.0	17.0	17.0
d	16.5	16.5	16.5
10	17.0	17.0	17.0

35 is possibly two stars
d is probably two stars

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Neb.	Mag. 1	Mag. 2	Mean
15	17.0	17.0	17.0
16	16.0	16.0	16.0
18	16.5	17.0	16.7
6	16.5	16.5	16.5
7	16.5	16.5	16.5
8	16.5	16.5	16.5
11	16.5	16.5	16.5
a	15.5	15.5	15.5
27	16.0	16.0	16.0

Neb.	Mag. 1	Mag. 2	Mean

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1930phae.proj.234M

H4179 3 10 −32.5

Neb.	Mag.1	Mag.2	Mean
~~abt~~	~~16.5~~	~~16.5~~	~~16.5~~
362	17.0	17.0	17.0
367	17.0	17.0	17.0
368	16.5	16.0	16.2
~~394~~	~~17.0~~	~~17.0~~	~~17.0~~
381	17.0	17.0	17.0
384	17.0	17.0	17.0
385?	17.0	17.0	17.0
388	16.5	16.5	16.5
390	17.0	17.0	17.0
299	17.0	16.5	16.7
B	16.5	16.5	16.5
t	17.0	17.0	17.0
~~[illegible]~~	~~17.0~~	~~17.0~~	~~17.0~~ good
302	16.5	16.5	16.5
307	17.0	17.0	17.0
308	17.0	17.0	17.0
310	17.5	17.5	17.5
312	17.0	17.0	17.0
293	16.5	16.5	16.5
295	16.5	16.5	16.5
294	16.5	16.5	16.5
282	16.5	16.5	16.5
283	16.5	16.5	16.5
284	17.0	17.0	17.0
285	16.5	16.5	16.5

Neb.	Mag.1	Mag.2	Mean
288?	16.5	16.5	16.5
289	16.5	16.5	16.5
321	17.0	16.5	16.7
400	16.5	16.5	16.5
319	16.5	16.5	16.5
~~204~~	~~17.0~~	~~16.5~~	~~16.7~~
203	17.0	17.0	17.0
401	16.0	16.0	16.0
280	17.0	17.0	17.0
268	16.5	16.5	16.5
269	16.5	16.5	16.5
398	16.5	16.5	16.5
316	17.0	17.0	17.0
317	16.5	16.5	16.5
322	16.5	16.5	16.5
323	16.5	16.5	16.5
324	16.5	16.5	16.5
99	16.5	16.5	16.5
305	17.0	17.0	17.0
306	17.0	17.0	17.0
327	16.5	16.5	16.5
331	16.0	16.5	16.2
332	16.5	16.5	16.5
342	16.5	16.0	16.2
341	17.0	17.5	17.2
334	16.5	17.0	16.7

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1930phae.proj.2340M

Neb.	Mag. 1	Mag. 2	Mean
335	16.5	16.5	16.5
336	16.5	16.5	16.5
337	16.5	16.5	16.5
340	16.5	16.5	16.5
346	17.0	16.5	16.7
347	16.0	16.5	16.2
326	16.0	16.5	16.2
372	16.0	16.0	16.0
373	16.5	16.5	16.5
374	16.5	16.5	16.5
376	17.0	17.0	17.0
377	16.5	16.5	16.5
350 a	16.5	16.5	16.5
180	16.5	16.5	16.5
181	17.0	17.0	17.0
~~184~~	~~17.0~~	~~17.0~~	~~17.0~~ star
354	17.0	17.0	17.0
ab	17.0	17.0	17.0
350	17.0	17.5	17.2
344	16.5	16.5	16.5
345	17.0	17.0	17.0
ac	17.0	17.0	17.0
357	17.0	17.0	17.0
359	17.0	17.0	17.0
360	17.0	17.0	17.0
361	16.5	16.5	16.5

Neb.	Mag. 1	Mag. 2	Mean
370	16.5	16.5	16.5
392	16.5	16.5	16.5
355	16.5	17.0	16.7
165	16.5	16.5	16.5
166	17.5	17.0	17.2
171	16.5	16.5	16.5
196	16.5	16.5	16.5
187	17.5	17.5	17.5
188	17.0	17.0	17.0
191	17.0	17.0	17.0
160	16.5	16.5	16.5
p	17.0	17.0	17.0
103	16.5	16.5	16.5
226	17.5	17.5	17.5
112	16.0	16.5	16.2
80	16.5	16.5	16.5
81	17.0	17.0	17.0
82	17.0	17.0	17.0
87	17.0	17.0	17.0
~~91~~	~~17.0~~	~~star~~	
77a	16.5	16.5	16.5
77b	17.0	17.0	17.0
76	16.0	16.5	16.2
I 1940	15.5	15.5	15.5
I 1924	17.0	17.0	17.0
I 1926	16.0	16.5	16.2

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1930phae.proj.2348M

A4179

Neb.	Mag. 1	Mag. 2	Mean
I1927	17.0	17.0	17.0
H.S. 1	16.0	16.0	16.0
271a	16.5-	16.5-	16.5-
273	16.0-	16.5-	16.5-
271b	16.5-	16.5-	16.5-
210	17.0	16.5-	16.7
44	16.5-	16.5-	16.5-
40	16.0	16.0	16.0
47	16.5-	16.5-	16.5-
50	16.0	16.0	16.0
53	17.0	17.0	17.0
49	17.0	17.0	17.0
57	17.0	17.0	17.0
58	16.0	16.5-	16.2
42	16.5-	16.5-	16.5-
~~20~~	~~16.5-~~	~~16.5-~~	~~16.5-~~ see A14269
I1923	17.0	16.5-	16.7
41	16.5-	17.0	16.7

Neb.	Mag. 1	Mag. 2	Mean

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1930phae.proj.234M

ENTERED ON CARDS Nos. in green ( ) correspond to nos. on A 15844

162 418 3 4 10 -02.6

Neb.	Mag. 1	Mag. 2	Mean
310	16.5	16.5	16.5
316	16.5	16.5	16.5
(2) N 317	16.5	17.0	16.7
N 318	16.5	17.0	16.7
(37) N 417	16.0	16.0	16.0
+	Two stars		
8	16.0	16.0	16.0
a	16.5	16.5	16.5
(4) 18	16.5	16.5	16.5
19	16.5	16.5	16.5
(26) 221	16.0	16.5	16.2
(29) 222	15.5	16.0	15.7
(9) 223	15.5	15.5	15.5
(8) 224	15.5	15.5	15.5
(5) 225	16.5	16.5	16.5
234	16.0	16.0	16.0
418	17.5	17.5	17.5
(3) N * 1	16.5	16.5	16.5
(6) N * 2	16.5	17.0	16.7
(17) N * 3	17.0	17.0	17.0
(18) N * 4	~~16.0~~ 17.0	17.0	17.0
(33) N * 5	16.0	16.0	16.0
(35) N * 6	17.0	17.0	17.0
N 416	16.5	16.5	16.5
I 2020	16.0	16.0	16.0
N 1515	12.1 (H.A.)		12.1

Neb.	Mag. 1	Mag. 2	Mean
3	16.0	16.0	16.0
6	16.5	16.5	16.5
7	16.5	16.5	16.5
9	16.0	16.0	16.0
N 342	17.0	17.0	17.0
N 343	17.0	17.0	17.0
N 345	16.5	16.5	16.5
I 2018	~~16.0~~ 15.5	16.0	15.7
35	16.5	16.5	16.5
38	16.0	16.0	16.0
42	16.0	16.0	16.0
44	16.0	16.5	16.2
45	15.5	16.0	15.7
41	16.0	16.0	16.0
295	16.5	16.5	16.5
10	16.5	16.5	16.5
13	16.5	16.5	16.5
14	16.5	16.5	16.5
N 320	16.5	16.5	16.5
~~321~~ ?	star		
N 322	17.0	17.0	17.0
~~324~~ ?	star		
~~325~~	star		
N 326	16.5	16.5	16.5
N 327	16.5	16.5	16.5

* Transferred from A 15844

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1930phae.proj.2343M

Neb.	Mag.1	Mag.2	Mean
~~428~~	star		
N 413	16.5	16.5	16.5
~~340~~	star		
N 412	17.5	17.5	17.5
N 411	17.0	17.5	17.4
(21) N 407	16.0	16.0	16.0
~~10~~	repeated		
~~12~~	repeated		
~~14~~	repeated		
16	16.0	16.0	16.0
17	16.5	17.0	16.7
19	16.5	16.5	16.5
(12) 24a	17.0	17.0	17.0
(14) 24b	17.0	17.0	17.0
23	16.0	16.0	16.0
(13) 22a	16.5	16.5	16.5
(23) 26	16.0	16.0	16.0
242	17.0	17.0	17.0
(36) 230	16.5	16.5	16.5
(19) 236	16.5	16.0	16.2
* 7 (20)	17.0	17.0	17.0
* 8 (15)	16.5	16.5	16.5
* 9 (16)	16.5	16.5	16.5
* 10? (24)	17.5	17.5	17.5
* 11	star		

Neb.	Mag.1	Mag.2	Mean
N 405	16.5	16.5	16.5
I 2024	16.0	16.0	16.0
N 409	16.5	16.5	16.5
N 410?	17.0	17.0	17.0
(41) 247	16.5	16.5	16.5
I 2033	15.5	15.5	15.5
244	16.0	16.0	16.0
N 408 +407	17.0	16.5	16.7
N 409	16.5	16.5	16.5
~~246~~	star		
245	16.0	16.0	16.0
N 243	15.0	15.5	15.2
(40) 250	16.0	16.0	16.0
(39) 252	15.5	16.0	15.7
249	17.0	17.0	17.0
N 403	17.5	17.5	17.5
(38) * 12?	17.5	17.5	17.5
251a	16.5	17.0	16.7
N 398	16.5	17.0	16.7
253	16.5	16.5	16.5
(48) N 397	16.5	16.5	16.5
(51) N 396	17.0	17.0	17.0
(50) 211	16.5	16.5	16.5
N 1552	13.5	14.0	13.7
N 341	17.0	16.5	16.7

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1930phae.proj.2348M

Neb.	Mag.1	Mag.2	Mean
I 2020	16.0	16.5	16.2
N 346?	16.5	16.5	16.5
N 347	17.0	17.0	17.0
N 348?	16.5	17.0	16.7
N 392	16.5	16.5	16.5
N 393	17.0	16.5	16.7
29	15.5	15.5	15.5
30	16.0	15.5	15.7
305	16.0	16.0	16.0
(11) 21	16.5	16.0	16.2
204	16.5	16.5	16.5
205	16.0	16.0	16.0
I 2024	15.0	15.0	15.0
I 2029	16.0	16.0	16.0
(22) * N 13	16.5	17.0	16.7
I 2021	15.5	15.5	15.5
I 2023	15.5	15.5	15.5
N 1506	15.0	15.0	15.0
300	16.5	16.5	16.2
286?	16.5	16.5	16.5
(1) 290	16.0	16.0	16.0
288	16.5	16.5	16.5
283	17.0	17.5	17.2
N 356	16.5	17.0	16.7
N 357	17.0	17.0	17.0

Neb.	Mag.1	Mag.2	Mean
291?	17.0	17.0	17.0
270	16.0	16.0	16.0
272	16.0	16.0	16.0
~~360~~	not nebula		
N 358	17.0	17.5	17.2
N 362	16.5	17.0	16.7
N 386	17.0	17.0	17.0
N 387	16.5	16.5	16.5
N 389	16.0	16.0	16.0
N 390	17.0	17.0	17.0
N 391	17.0	17.0	17.0
350	16.0	16.0	16.0
N 351	~~17.0~~ 16.0	16.0	16.0
293	15.5	15.5	15.5
297	16.0	15.5	15.7
N 1500	15.0	15.0	15.0
294	16.0	16.0	16.0
N 360	16.5	16.5	16.5
N 366	16.5	17.0	16.7
281	16.0	16.0	16.0
283	16.0	16.0	16.0
284	16.5	16.5	16.5
N 352	17.0	17.5	17.2
N 353	17.0	17.0	17.0
N 354	17.0	17.0	17.0

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1980phae.proj.2240M

41P3

Neb.	Mag. 1	Mag. 2	Mean	
v 270	16.5	16.5	16.5	
v 274	16.0	16.0	16.0	
v 276	16.5	16.5	16.5	
v 277	17.0	16.5	16.7	
N 364	17.0	16.5	16.7	
N 367	17.0	17.0	17.0	
~~47~~	star			
~~48~~	star			
v 51	16.0	16.5	16.2	
v 53	15.5	16.0	15.7	
v 58	16.0	16.0	16.0	
~~v 59~~	~~16.0~~	~~16.0~~	~~16.0~~	star
N 369	16.5	17.0	16.7	
N 370	14.5	14.0	14.2	
N 371	17.0	16.5	16.7	
I 373?	17.0	16.5	16.7	
v 60	16.5	16.0	16.2	
v 49	16.5	16.0	16.2	
v 62	17.0	16.5	16.7	
v 63	17.0	17.0	17.0	
N 376	17.0	17.0	17.0	
N 378	17.0	17.0	17.0	
N 380	17.0	17.5	17.2	
v 94	16.5	17.0	16.7	
v 264	16.0	16.0	16.0	

Neb.	Mag. 1	Mag. 2	Mean
v 263	16.5	16.5	16.5
v 261	16.5	17.0	16.7
~~382~~	star		
N 381	16.5	16.5	16.5
v 262	16.0	16.0	16.0
v 265	15.5	15.5	15.5
v 260	16.5	16.5	16.5
N 384	17.0	17.0	17.0
(100) 259	16.0	16.0	16.0
v 258	16.0	16.5	16.2
v 257	16.0	16.0	16.0
N 394	17.0	17.0	17.0
v 230	16.5	16.5	16.5
v 180	16.5	17.0	16.7
N 426	17.0	17.0	17.0
v 179	15.5	15.5	15.5
v 181	15.5	15.5	15.5
v 182	16.5	16.5	16.5
v 183	16.0	16.0	16.0
N 436	16.5	16.0	16.2
v 184	16.5	16.5	16.5
v 185	16.5	16.5	16.5
N 434	17.0	17.0	17.0
N 435	17.0	17.0	17.0
I 2043	15.5	15.5	15.5

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1930phae.proj.2340M

Neb.	Mag. 1	Mag. 2	Mean
N 428 ?	17.0	17.0	17.0
174	16.5	16.5	16.5
167	16.5	16.5	16.5
N 431	17.5	17.0	17.2
173	17.0	16.5	16.7
168	16.5	16.5	16.5
172	16.0	16.0	16.0
171	16.0	16.0	16.0
169	16.5	16.5	16.5
170	16.5	16.5	16.5
166	16.5	16.5	16.5
165	16.5	16.5	16.5
N 489	16.5	16.5	16.5
N 488 ?	17.0	17.0	17.0
N 487	16.0	16.0	16.0
N 486	17.0	17.0	17.0
I 2050	15.5	15.5	15.5
N 402	16.5	16.5	16.5
~~439~~	two stars		
N 438	17.0	17.0	17.0
N 439	17.0	17.0	17.0
2 b	16.5	16.0	16.2
N 440	16.5	16.0	16.2
206	15.5	15.5	15.5
251 b	16.5	16.5	16.5

Neb.	Mag. 1	Mag. 2	Mean
(159) 204	16.0	15.5	15.7
(163) 203	16.5	16.0	16.2
(284) N 441	17.0	17.0	17.0
(166) N * 15	16.5	17.0	16.7
(165) 201	16.0	16.0	16.0
(167) 198	16.0	16.0	16.0
196	16.5	16.5	16.5
(286) 195	15.5	15.5	15.5
(287) N * 16	17.0	17.0	17.0
~~(285)~~ 194	15.5	15.5	15.5
(287) N * 17	= 194		
~~(172)~~ 193	16.0	16.0	16.0
(293) N * 19	16.5	16.5	16.5
(142) N * 18	15.5	15.5	15.5
(290) N 444	16.5	16.5	16.5
(291) N 445	16.5	16.5	16.5
(295) * 20	17.5	17.5	17.5
~~142~~	= * 19		
(168) 199	16.5	16.5	16.5
209	16.0	16.0	16.0
202	16.5	16.5	16.5
(164) * 14	16.5	16.5	16.5
N 442	17.0	17.0	17.0
N 443	17.0	17.5	17.2
200	16.0	16.0	16.0

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1930phae.proj.224.COM

Neb.	Mag. 1	Mag. 2	Mean	
~~199~~	~~16.5~~	~~16.0~~	~~16.2~~	duplicate
(2942) 190	16.5⁻	16.0	16.2	
(2943) 191	16.0	16.0	16.0	
H77	17.0	17.0	17.0	
H47	17.0	17.0	17.0	
H48	16.0	16.0	16.0	
(06) 210	16.0	16.0	16.0	
H85	17.0	17.0	17.0	
H83	16.5⁻	16.5⁻	16.5⁻	
90	17.0	17.0	17.0	
H51	17.0	17.0	17.0	
93	16.0	16.0	16.0	
70	16.5⁻	16.5⁻	16.5⁻	
68	16.5⁻	16.5⁻	16.5⁻	
82	16.5⁻	16.5⁻	16.5⁻	
83	17.0	17.0	17.0	
84	16.0	16.0	16.0	
87	16.5⁻	16.5⁻	16.5⁻	
H52	17.0	16.5⁻	16.7	
H53	16.5⁻	16.0	16.2	
H54	16.5⁻	16.0⁻	16.5⁻	
H59	16.5	16.5⁻	16.5⁻	
H60	16.0	16.0	16.0	
H61	17.0	16.5⁻	16.7	
H62	16.5⁻	16.5⁻	16.5⁻	
67	16.0	16.0	16.0	
167a	14.5	14.5⁻	14.5⁻	

Neb.	Mag. 1	Mag. 2	Mean
71	17.0	17.0	17.0
72	16.5⁻	16.6	16.2
77	16.0	16.0	16.0
78	16.0⁻	16.0	16.2
79	16.5⁻	16.5⁻	16.5⁻
80	16.0	16.0	16.0
N1535	13.5⁻	13.5⁻	13.5⁻
73	16.5⁻	16.5⁻	16.5⁻
74	16.0	16.0	16.0
+ 75⁻	16.0	16.0	16.0
110	16.5⁻	16.5⁻	16.5⁻
H55⁻	17.0	17.0	17.0
H47a	17.0	16.5⁻	16.4
H47b	17.0	17.0	17.0
H48	17.0	17.0	17.0
H49?	17.0	17.0	17.0
H50	16.5⁻	16.0	16.2
H51	17.0	17.0	17.0
85	16.5⁻	16.0	16.2
88	16.0	16.0	16.0
296	15.5⁻	15.5⁻	15.5⁻
H58	16.5⁻	16.5⁻	16.5⁻
H41	17.0	17.0	17.0
H42	16.5⁻	16.5⁻	16.5⁻
H43	17.0	17.0	17.0
89	17.0	17.0	17.0

+ 75⁻ double?

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Neb.	Mag. 1	Mag. 2	Mean
90	16.0 ~~17.0~~	16.5	16.2
98	15.5	16.5	15.7
99	16.0	16.0	16.0
N463	16.5	16.5	16.5
N464	16.5	16.5	16.5
N465	17.0	16.5	16.7
N466	17.5	17.5	17.5
N467	17.5	17.5	17.5
N468	16.5	16.5	16.5
N528	16.0	16.0	16.0
N5278	14.0	14.0	14.0
N469	16.0	15.5	15.7
N470	17.0	16.5	16.7
N471	16.5	16.5	16.5
N472	16.5	16.5	16.5
N474	16.5	16.0	16.2
N479	16.0	16.0	16.0
(548) N520	17.0	16.5	16.7
100	16.5	16.0	16.2
102	16.5	16.0	16.2
(360) 103	17.0	16.5	16.7
104	16.5	16.5	16.5
105	16.5	16.5	16.5
106	16.0	16.0	16.0
(357) *39	16.5	16.5	16.5

Neb.	Mag. 1	Mag. 2	Mean
(359) *40	16.5	16.5	16.5
*41	star		
(347) 239	16.0	16.0	16.0
(360) 108	16.0	16.0	16.0
(356) 109	15.5	15.5	15.5
186	16.0	16.0	16.0
187	16.0	16.0	16.0
188	16.5	16.0	16.2
(303) 189	17.0	16.5	16.7
(312) N480	17.0	17.5	17.2
(304) N485	16.0	16.5	16.2
*21	star		
(299) *22?	16.5	16.5	16.5
(302) *23	16.5	16.5	16.5
(301) *24	17.0	17.5	17.2
(353) *25	17.5	17.0	17.2
(354) *26	17.5	17.0	17.2
(355) *27	16.5	16.5	16.5
(311) *28	17.0	17.0	17.0
(545) *29	17.5	17.5	17.5
(546) *30	17.0	17.0	17.0
(549) *31	17.0	17.5	17.2
(550) *32	17.0	17.0	17.0
(300) N478	17.0	17.0	17.0
151	16.5	16.0	16.2

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Neb.	Mag. 1	Mag. 2	Mean
152	16.0	16.0	16.2
153	17.0	17.0	17.0
154	16.5	16.5	16.5
155	16.0	16.0	16.0
156	16.5	16.0	16.2
157	16.5	16.0	16.2
158	16.5	16.5	16.5
147	16.5	16.0	16.2
163	16.5	16.0	16.2
164	16.5	16.5	16.5
516	16.0	16.5	16.2
517	17.0	17.0	17.0
481	16.5	16.5	16.5
482	16.5	16.5	16.5
483	16.5	16.5	16.5
484	16.5	16.5	16.5
490	17.0	17.0	17.0
491	16.5	17.0	16.7
143	16.0	16.0	16.0
238 (558)	16.5	16.5	16.5
* 49 (562)	17.0	17.5	17.2
* 50 (561)	17.0	17.0	17.0
126 (850)	16.0	16.0	16.0
127	16.5	16.5	16.5
128 (854)	16.0	16.0	16.0

Neb.	Mag. 1	Mag. 2	Mean
~~130~~	~~star~~	~~16.5~~	
131	16.5	16.5	16.5
(569) 240	16.0	16.0	16.0
~~33~~	star		
(565) * 34?	17.0	17.0	17.0
~~35~~	not neb.		
(556) * 36	17.0	17.0	17.0
~~39~~	star		
(552) * 38	17.0	17.5	17.2
(570) * 42	17.5	17.0	17.2
(560) * 43	17.5	17.0	17.2
(567) * 44	17.0	17.0	17.0
(568) * 45?	17.0	17.0	17.0
(563) * 46	17.0	17.5	17.2
(560) * 47	16.5	16.5	16.5
(849) * 51	17.0	16.5	16.7
(557) * 48	16.5	16.5	16.5
526	17.0	17.0	17.0
(553) 527	17.0	17.0	17.0
120	16.0	16.0	16.0
122	15.0	15.0	15.0
124	16.5	16.5	16.5
110	15.5	~~16.0~~ 15.5	15.5
117	16.5	16.5	16.5
119	16.5	16.0	16.2

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Neb.	Mag. 1	Mag. 2	Mean
532	17.0	17.0	17.0
533	17.0	17.0	17.0
534	16.5	16.5	16.5
535	17.0	17.0	17.0
538	17.0	17.0	17.0
539	17.5	17.5	17.5
540	17.0	17.5	17.2
544	17.0	17.0	17.0
545	17.0	17.5	17.2
111	16.0	16.0	16.0
112	16.0	16.5	16.2
113	16.0	16.0	16.0
114	16.0	16.0	16.0
319	16.5	16.5	16.5
382	16.0	16.5	16.2
521	16.5	17.0	16.7

Neb.	Mag. 1	Mag. 2	Mean

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Neb.	Mag. 1	Mag. 2	Mean
1	16.0	16.0	16.0
2	16.5⁻	16.5⁻	16.5
3	16.5⁻	16.5⁻	16.5
5⁻	17.0	17.0	17.0
7	17.0	17.0	17.0
8	16.5⁻	17.0	16.7
9	17.0	16.5⁻	16.7
~~270~~	rejected		
378 ?	17.0⁻	17.0	17.2
380	17.5⁻	17.5⁻	17.5
381	17.5	17.5	17.5
384	17.0	17.0	17.0
387 ?	17.0	17.0	17.0
388 ?	17.0	17.0	17.0
12	17.0	17.5⁻	17.2
13	16.5⁻	17.0	16.7
16	17.0	17.5	17.2
17 ?	16.5⁻	17.0	16.7
20	16.0	16.5⁻	16.2
21	16.0⁻	17.0	16.7
22	17.0	17.0	17.0
23	16.0	16.5⁻	16.2
24 ?	16.0	16.0	16.0
25⁻	15.0	15.5⁻	15.2
28 ?	16.5⁻	16.5⁻	16.5

Neb.	Mag. 1	Mag. 2	Mean
29	16.0	16.0	16.0
30	17.0	17.5⁻	17.2
287	17.0	16.5⁻	16.7
31	17.0	16.5⁻	16.7
33	17.0	17.0	17.0
38	17.0	16.5⁻	16.7
39	16.5⁻	16.5⁻	16.5
46	17.0	17.5⁻	17.2
286	17.0	17.0	17.0
45⁻	17.0	17.0	17.0
49 ?	17.0	17.0	17.0
5⁻1	17.0	17.0	17.0
5⁻2 ?	17.0	17.0	17.0
5⁻3	16.5⁻	16.5⁻	16.5
5⁻4	17.0	17.0	17.0
71	17.0	17.0	17.0
* 72	16.5⁻	16.5⁻	16.5
80	16.5	16.0	16.2
80⁻ ?	17.0	17.0	17.0
43 ?	17.0	17.0	17.0
88	17.0	16.5⁻	16.7
89 ?	16.5⁻	16.5⁻	16.5
90	16.0	16.0	16.0
120⁻ ?	17.0	17.0	17.0
127	16.5⁻	16.5⁻	16.5

* 72 is possibly two stars

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Neb.	Mag. 1	Mag. 2	Mean
128?	17.0	17.5	17.2
129	16.0	16.0	16.0
141	16.5	16.5	16.5
146?	16.5	16.5	16.5
147	16.5	17.0	16.7
148	16.5	16.5	16.5
149	17.0	17.0	17.0
150	17.0	17.5	17.2
151	16.0	16.0	16.0
169	16.5	16.5	16.5
172?	17.0	17.0	17.0
171	17.0	16.5	16.7
174?	17.0	17.0	17.0
177	16.5	16.0	16.2
179?	17.0	17.0	17.0
180	17.0	17.0	17.0
181	17.0	17.0	17.0
182	16.5	16.0	16.2
183?	17.0	17.0	17.0
184	16.5	16.5	16.5
185	16.0	16.5	16.2
178??	16.5	17.0	16.7
187	16.0	16.0	16.0
191	17.0	17.0	17.0
192	16.5	17.0	16.7

Neb.	Mag. 1	Mag. 2	Mean	
131	16.5	16.5	16.5	
#132	16.5	17.0	16.7	
133	17.0	17.0	17.0	
135	17.0	17.0	17.0	
137	16.5	16.5	16.5	
138	16.5	16.0	16.2	
139	17.0	17.0	17.0	
160	16.5	17.0	16.7	
163?	17.0	17.5	17.2	
210	16.0	16.5	16.2	
213	17.0	17.0	17.0	
215	16.5	16.5	16.5	
158	16.5	16.5	16.5	
233	16.5	17.0	16.7	
235	17.0	17.5	17.2	
234	17.0	17.0	17.0	
~~237~~	~~15.5~~	~~15.5~~	15.5	used on AH163
112	17.0	17.0	17.0	
113	17.0	17.5	17.2	
115a	16.5	16.5	16.5	
115b	16.5	17.0	16.7	
116	16.5	17.0	16.7	
117	16.5	17.0	16.7	
118	16.5	17.0	16.7	
121	16.5	17.0	16.7	
239	16.0	16.5	16.2	
241	16.0	16.5	16.2	

132 rejected (as no. 340) on AH83. Accepted here.

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15879

Neb.	Mag.1	Mag.2	Mean
246	17.0	17.5	17.2
130	16.0	16.0	16.0
60?	16.5	17.0	16.7
62?	17.0	17.5	17.2
63	16.0	16.5	16.2
64?	16.5	17.0	16.7
66	16.0	16.0	16.0
105	16.5	16.5	16.5
106	17.0	17.0	17.0
107	17.0	17.0	17.0
108	16.5	17.0	16.7
109	17.0	17.0	17.0
111	17.0	17.5	17.2
95	16.5	16.5	16.5
98	16.0	16.0	16.0
100	17.0	17.0	17.0
260	16.0	16.0	16.0
262	17.0	17.0	17.0
263	17.0	17.0	17.0
264	16.5	17.0	16.7
265	17.0	17.0	17.0
266	16.5	17.0	16.7
268	17.0	17.5	17.2
269	17.0	17.0	17.0
271	16.0	16.5	16.2

Neb.	Mag.1	Mag.2	Mean
273	17.0	17.0	17.0
274	16.5	16.5	16.5
275	16.5	17.0	16.7
276	16.5	17.0	16.7
277	16.5	17.0	16.7
733	16.0	16.0	16.0
730	17.5	17.5	17.5
281	17.0	17.0	17.0
282	16.5	16.5	16.5
284	16.0	16.5	16.2
291	16.5	16.5	16.5
293?	17.0	17.0	17.0
302	17.0	17.5	17.2
289	17.0	17.5	17.2
290	16.5	17.0	16.7
296	17.0	17.0	17.0
311	16.0	16.5	16.2
313	17.0	17.0	17.0
314	16.5	17.0	16.7
310	17.0	17.0	17.0
329	17.5	17.5	17.5
330	17.5	17.5	17.5
333	16.5	16.5	16.5
338	17.0	17.0	17.0

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Neb.	Mag. 1	Mag. 2	Mean
339	16.0	16.5	16.2
344	17.0	17.0	17.0
345	16.5	17.0	16.7
~~305~~	~~17.5~~	rejected	
317	17.5	17.5	17.5
319	17.0	17.0	17.0
321	16.5	17.0	16.7
323	16.5	17.0	16.7
324	16.0	16.5	16.2
325	17.0	17.0	17.0
327	16.5	17.0	16.7
328	17.0	17.0	17.0
349	16.0	16.5	16.2
350	17.0	17.0	17.0
351	17.0	17.5	17.2
353	17.0	17.0	17.0
~~598~~ ?	rejected		
599	17.0	17.5	17.2
602	16.5	17.0	16.7
11	17.0	16.5	16.7
15 ?	17.0	17.5	17.2
336	15.5	16.0	15.7
337	16.0	16.5	16.2
342	17.0	17.5	17.2

Neb.	Mag. 1	Mag. 2	Mean
343	16.5	17.0	16.7
346	16.5	17.0	16.7
372	16.0	16.5	16.2
357	17.0	17.0	17.0
358	16.0	16.0	16.0
359	17.5	17.5	17.5
360	17.0	17.0	17.0
361	17.0	17.0	17.0
362	17.0	17.5	17.2
363	17.5	17.5	17.5
364	17.5	17.5	17.5
365	17.0	17.5	17.2
367	16.5	17.0	16.7
368	17.0	17.0	17.0
369	17.0	17.0	17.0
370	16.5	17.0	16.7
371	17.0	17.5	17.2
373	17.5	17.5	17.5
376	17.0	17.0	17.0
374	17.5	17.5	17.5
377	16.5	17.0	16.7
391	17.0	17.5	17.2
392	17.0	17.5	17.2
393	16.5	17.0	16.7
394	17.5	17.5	17.5
395 ?	17.0	17.5	17.2
538	17.0	17.5	17.2
539	17.5	17.5	17.5
544	17.0	17.0	17.0
540	15.5	15.5	15.5
545	17.0	17.5	17.2

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Neb.	Mag. 1	Mag. 2	Mean
546	17.0	17.0	17.0
547	17.0	17.0	17.0
548	16.5	17.0	16.7
549	17.0	17.0	17.0
550	17.5	17.5	17.5
552	17.5	17.5	17.5
553	17.5	17.5	17.5
554	17.5	17.5	17.5
555	17.5	17.5	17.5
556	17.0	17.5	17.2
571	17.0	17.0	17.0
~~597~~	rejected		
590	17.0	17.5	17.2
596	16.5	17.0	16.7
603 ?	17.5	17.5	17.5
600	17.5	17.5	17.5
631	16.0	16.5	16.2
632	17.5	17.0	17.2
610	17.0	17.0	17.0
612	17.5	17.5	17.5
614	16.5	17.0	16.7
615	17.0	17.0	17.0
616 ?	17.5	17.5	17.5

Neb.	Mag. 1	Mag. 2	Mean
618	17.5	17.5	17.5
619	17.5	17.5	17.5
620	17.5	17.5	17.5
624	17.5	17.5	17.5
725	17.5	17.0	17.2
727	16.5	16.5	16.5
728	17.5	17.0	17.2
729	17.0	17.0	17.0
731	17.5	17.5	17.5
~~732~~	rejected		
736 ?	17.0	17.0	17.0
738	17.5	17.5	17.5
739	17.5	17.5	17.5
740	17.0	17.5	17.2
745	17.5	17.5	17.5
786	17.0	17.0	17.0
787	17.0	17.0	17.0
788	17.5	17.5	17.5
747	17.5	17.5	17.5
789	16.5	16.5	16.5
784	17.0	17.0	17.0
782	17.0	17.0	17.0
780	17.0	17.0	17.0

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Neb.	Mag. 1	Mag. 2	Mean
783	17.0	17.0	17.0
785	17.5	17.5	17.5
790 ?	17.5	~~16.5~~ 17.5	17.5
791 ?	17.0	17.0	17.0
792	16.5	16.5	16.5
800	16.5	17.0	16.7
801	17.0	17.5	17.2
802	16.5	16.5	16.5
806	17.5	17.5	17.5
808	16.5	17.0	16.7
809	17.0	17.5	17.2
816	16.5	17.0	16.7
817	17.0	17.5	17.2
813	17.5	17.5	17.5
814	~~16~~ 17.0	17.0	17.0
810	17.0	17.0	17.0
255	17.0	17.0	17.0
256 ?	17.5	17.5	17.5
257	17.0	17.0	17.0
259	17.0	17.0	17.0
224	17.5	17.0	17.2
225	17.0	17.0	17.0
226	17.5	17.0	17.2
227	17.5	17.5	17.5

Neb.	Mag. 1	Mag. 2	Mean
232	17.0	17.0	17.0
247	16.5	16.5	16.5
249	17.0	16.5	16.7
251	17.0	17.0	17.0
252	17.0	17.0	17.0
253	16.5	17.0	16.7
223	17.0	17.0	17.0
~~222~~	duplicate		
221	17.5	17.5	17.5
220	16.5	16.5	16.5
217	17.5	17.5	17.5
216	17.5	17.5	17.5
209	17.0	17.0	17.0
208	16.5	17.0	16.7
206	17.0	17.0	17.0
205	17.0	17.0	17.0
204	17.5	17.5	17.5
203	17.0	17.5	17.2
202 ?	17.5	17.5	17.5
200	17.0	17.5	17.2
199	17.5	17.5	17.5
198	17.0	17.0	17.0
197	17.5	17.0	17.2
196	17.0	17.0	17.0

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Neb.	Mag. 1	Mag. 2	Mean	
193	17.5	17.5	17.5	
194	16.5	16.5	16.5	
~~201?~~	~~17.5~~	rejected		
825	17.0	17.0	17.0	
826	17.0	17.0	17.0	
827	17.0	17.0	17.0	
828	17.0	17.0	17.0	
829	17.0	17.0	17.0	
830	17.5	17.5	17.5	
~~832~~	~~17.0~~	~~17.0~~	~~17.0~~	defect
833	17.0	17.0	17.0	
834	17.0	17.0	17.0	
843	17.0	17.0	17.0	
844	17.5	17.5	17.5	
~~845~~	rejected			
852	15.0	15.0	15.0	
853	17.0	17.0	17.0	
855	17.0	17.0	17.0	
857	16.5	16.5	16.5	
858?	17.5	17.5	17.5	
870	17.5	17.5	17.5	
850	17.5	17.5	17.5	
849	17.5	17.5	17.5	

Neb.	Mag. 1	Mag. 2	Mean
848	16.5	16.5	16.5
~~847?~~	rejected		
846	17.0	17.0	17.0
841?	17.0	16.5	16.7
906?	17.5	17.5	17.5
836	17.0	17.0	17.0
837	17.0	17.0	17.0
838	17.0	17.0	17.0
922	17.5	17.5	17.5
923	16.0	16.0	16.0
924	17.0	17.0	17.0
925	17.0	17.0	17.0
926?	17.5	17.5	17.5
927	17.0	17.5	17.3
928	rejected		
929?	17.0	17.0	17.0
930	16.5	16.5	16.5
919	17.0	17.0	17.0
775	17.0	17.0	17.0
777	17.5	17.5	17.5
778	16.0	16.0	16.0
793	17.0	17.0	17.2
798	16.5	17.0	16.7

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Neb.	Mag. 1	Mag. 2	Mean
799	17.0	17.0	17.0
742	17.0	17.5	17.2
743	17.0	17.5	17.2
746	16.5	17.0	16.7
748	17.0	17.0	17.0
750	17.5	17.5	17.5
751	16.5	17.0	16.7
752	17.0	17.5	17.2
753	17.5	17.5	17.5
754	17.0	17.5	17.2
717	17.5	17.5	17.5
718	17.5	17.5	17.5
719	17.0	17.0	17.0
720?	17.0	17.0	17.0
726	16.5	17.0	16.7
755	17.0	17.0	17.0
804	17.5	17.5	17.5
805	16.5	16.5	16.5
818	16.5	16.5	16.5
819	17.0	17.0	17.0
820	17.5	17.5	17.5
821	17.0	17.5	17.2
822	17.0	17.5	17.2
823?	17.5	17.5	17.5

Neb.	Mag. 1	Mag. 2	Mean
824	17.0	17.0	17.0
757	16.5	16.5	16.5
758	17.5	17.0	17.2
759	17.5	17.5	17.5
760?	17.5	17.5	17.5
761?	~~17.5~~	rejected	
762	17.0	17.5	17.2
763	17.0	17.5	17.2
764	17.0	17.0	17.0
765	17.0	17.0	17.0
767	16.5	17.0	16.7
769?	17.0	17.0	17.0
770	17.0	17.0	17.0
771?	17.0	17.5	17.2
772	17.5	17.5	17.5
~~773~~?	rejected		
774	17.5	17.5	17.5
~~996~~	rejected	~~17.5~~	
933	17.5	17.0	17.2
711	17.0	17.5	17.2
712	17.0	17.0	17.0
713	17.0	17.5	17.2
714	17.0	17.5	17.2
700	16.5	17.0	16.7

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Neb.	Mag. 1	Mag. 2	Mean
682	17.5	17.5	17.5
683	17.5	17.5	17.5
683	17.0	17.0	17.0
684?	17.5	17.5	17.5
685	16.5	17.0	16.7
686	17.0	17.5	17.2
687	17.0	17.0	17.0
688	17.5	17.5	17.5
690?	17.0	16.5	16.7
692	17.0	17.0	17.0
694	17.0	17.0	17.0
696	17.5	17.5	17.5
697	17.5	17.5	17.5
1239	16.5	17.0	16.7
1240a?	17.0	17.5	17.2
1240b?	17.5	17.5	17.5
626	17.5	17.5	17.5
627	17.5	17.5	17.5
628	17.5	17.5	17.5
630	17.0	17.0	17.0
633	16.5	16.0	16.2
634	16.5	16.5	16.5
646	17.0	17.0	17.0
648	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean
649?	17.0	17.0	17.0
651	17.5	17.5	17.5
512	17.0	17.0	17.0
513	17.0	17.0	17.0
591	17.0	17.0	17.0
593	16.5	16.5	16.5
636	17.5	17.0	17.2
637	16.5	17.0	16.7
638	17.0	17.0	17.0
639	15.5	15.5	15.5
644	17.0	17.0	17.0
645	16.5	16.5	16.5
654	17.0	17.5	17.2
497	17.5	17.0	17.2
498	17.0	17.0	17.0
499	17.0	17.0	17.0
500	17.0	17.0	17.0
501	17.0	17.0	17.0
502	17.5	17.5	17.5
503	17.0	17.0	17.0
494	17.0	17.0	17.0
495	17.0	17.0	17.0
656	17.5	17.5	17.5

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Neb.	Mag. 1	Mag. 2	Mean
507	16.5	17.0	16.7
508	17.0	17.5	17.2
514	16.5	16.5	16.5
515	17.0	17.0	17.0
516	16.0	16.0	16.0
517	17.5	17.5	17.5
519	17.0	17.0	17.0
520	17.5	17.0	17.2
521	17.0	17.0	17.0
522	17.0	17.0	17.0
527	17.0	17.0	17.0
528	17.0	17.5	17.2
529	16.5	16.5	16.5
530	17.0	17.0	17.0
534	17.0	17.0	17.0
536	17.0	17.5	17.2
538	17.5	17.5	17.5
561?	17.0	17.0	17.0
562	16.0	16.0	16.0
559	17.5	17.5	17.5
560	17.0	17.0	17.0
564	16.5	16.5	16.5
560	17.0	17.0	17.0
567?	17.0	17.5	17.2

Neb.	Mag. 1	Mag. 2	Mean
570?	17.0	17.0	17.0
576	17.0	17.5	17.2
577	16.0	~~17.5~~ 16.5	16.2
578	17.5	17.5	17.5
579	16.5	16.5	16.5
580	16.0	16.0	16.0
581	16.0	16.5	16.2
582	17.5	17.5	17.5
583	17.5	17.5	17.5
584	17.0	17.0	17.0
585	17.0	17.0	17.0
588	16.5	16.5	16.5
589	17.0	17.0	17.0
590	16.5	16.5	16.5
44F	17.5	17.5	17.5
450	17.0	17.0	17.0
451	17.5	17.5	17.5
453	16.5	17.0	16.7
454	17.0	17.0	17.0
456	17.0	17.0	17.0
457	16.0	16.5	16.2
458	17.5	17.5	17.5
459	17.5	17.5	17.5
460	16.5	17.0	16.7

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Neb.	Mag. 1	Mag. 2	Mean
H62	17.5-	17.5-	17.5-
463	17.0	17.0	17.0
464	16.5-	17.0	16.7
524	16.5-	17.0	16.7
520-	17.0	17.5-	17.2
537	17.0	17.5-	17.2
396	16.5-	16.5-	16.5-
397	17.0	17.0	17.0
398	16.5-	17.0	16.7
399	16.5-	16.5-	16.5-
400	17.0	17.0	17.0
H16	17.0	17.0	17.0
H17	16.5-	16.5-	16.5-
H41	16.5-	16.5-	16.5-
H42	17.5-	17.5-	17.5-
H43	17.0	17.0	17.0
H44	17.0	17.0	17.0
H46	17.0	17.0	17.0
H47	17.5-	17.5-	17.5-
H60-	16.5-	17.0	16.7
H66	17.5-	17.5-	17.5-
401	17.0	17.5-	17.2
402	16.5-	17.0	16.7
403	16.5-	17.0	16.7
404?	17.0	17.5-	17.2

Neb.	Mag. 1	Mag. 2	Mean
405?	17.5-	17.5-	17.5-
406	16.5-	17.0	16.7
409	~~16.5-~~ 17.0-	17.0	17.0
H10	16.5-	16.5-	16.5-
H11	17.0	17.0	17.0
H12	17.0	17.5-	17.2
H14	17.5-	17.5-	17.5-
415-	16.0	16.0	16.0
H19	17.0	17.0	17.0
H20	15.5-	16.0	15.7
H21	16.0	16.5-	16.2
H22	16.5-	17.0	16.7
H23	16.5-	16.5-	16.5-
H24	16.0	16.5-	16.2
H25-	17.0	17.0	17.0
H26	17.0	17.0	17.0
H27	16.5-	17.0	16.7
H28	16.0	16.5-	16.2
H29	17.5-	17.0	17.2
H30	17.0	17.5-	17.2
H31	17.5-	17.5-	17.5-
H32	16.5-	17.0	16.7
H33-	15.5-	16.5-	16.5-
H37	16.5-	17.0	16.7
H38	17.0	17.0	17.0

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Neb.	Mag.1	Mag.2	Mean
H39	16.5	17.0	16.7
H40	16.5	16.5	16.5
H07	16.5	17.0	16.7
H08	17.0	17.5	17.2
H13	17.0	17.5	17.2
1358	17.0	17.5	17.2
1359	16.0	16.0	16.0
~~1360?~~	~~17.5~~	rejected	
1361?	17.0	17.5	17.2
1363	16.5	17.0	16.7
1364	17.0	17.0	17.0
1365	16.5	17.0	16.7
1366	17.5	17.5	17.5
1367	15.5	15.5	15.5
1368	16.5	17.0	16.7
1369	17.0	17.0	17.0
H70	17.0	17.0	17.0
1371	16.0	16.5	16.2
1372	16.5	17.0	16.7
1373	17.0	17.0	17.0
1384	16.5	17.0	16.7
1385	17.0	17.5	17.2
1386	17.0	17.5	17.2
1387	16.5	16.5	16.5

Neb.	Mag.1	Mag.2	Mean
1388	16.5	16.5	16.5
1389	16.0	16.0	16.0
1390	16.5	16.5	16.5
1391	17.0	17.0	17.0
1392	17.0	17.0	17.0
1395	16.5	17.0	16.7
1396	17.0	17.5	17.2
1417	16.5	17.0	16.7
1418	17.0	17.5	17.2
1397	17.0	17.0	17.0
1398	17.0	17.0	17.0
1399	17.0	17.0	17.0
1400	17.5	17.5	17.5
1404	16.0	16.5	16.2
1405	17.0	17.5	17.2
F 1408	16.5	16.5	16.5
1409	16.0	16.5	16.2
1413	16.5	17.0	16.7
1415	17.0	17.5	17.2
1416	16.0	16.5	16.2
1402	17.0	17.0	17.0
1403	17.0	17.0	17.0
H67	17.5	17.0	17.2
H68	17.0	17.5	17.2
H69	17.0	17.0	17.0

F 1408 part of a nebula no. 74, one 4183

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1930phae.proj.2345M

Neb.	Mag. 1	Mag. 2	Mean.
H70	16.0	16.5-	16.2
H74	16.0	16.5-	16.2
H75-	17.0	17.5-	17.2
H76	16.5-	17.0	16.7
H77	17.0	17.5-	17.2
H78	17.5-	17.5-	17.5
H79	17.5-	17.5-	17.5
H80?	17.5-	17.5-	17.5-
H82	16.5-	17.0	16.7
H83	17.5-	17.5-	17.5-
H84	16.5-	16.5-	16.5-
H85-	17.5-	17.5-	17.5-
H87	16.5-	17.0	16.7
H88	17.0	17.5-	17.2
H89?	17.5-	17.5-	17.5
H90	17.5-	17.5-	17.5-
H91	17.0	17.0	17.0
H92	17.0	17.5-	17.2
H96	17.0	17.5-	17.2
1411	17.0	17.0	17.0
1412	17.0	17.5-	17.2
1309	17.0	17.0	17.0
1310	17.0	17.0	17.0

Neb.	Mag. 1	Mag. 2	Mean.
1311	17.0	17.0	17.0
1442	17.0	17.0	17.0
1444	17.0	17.5-	17.2
1445-?	17.0	17.0	17.0
1445-	17.0	17.5	17.2
1456	17.0	17.5-	17.2
1457	17.0	17.5-	17.2
1458	17.0	17.5-	17.2
1459	16.5-	17.0	16.7
1460	16.0	16.5-	16.2
1461	17.0	17.5-	17.2
1462	17.0	17.0	17.0
1463	16.0	16.5-	16.2
1464	16.5-	16.5-	16.5-
1465-	17.0	17.0	17.0
1466	16.5-	17.0	16.7
659	17.0	17.0	17.0
660	17.0	17.5-	17.2
661	16.0	16.5-	16.2
662?	17.0	17.5-	17.2
664	16.5-	17.0	16.7
666	17.0	17.0	17.0
668	16.5-	17.0	16.7

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Neb.	Mag.1	Mag.2	Mean
669	17.0	17.0	17.0
671?	16.5	16.5	16.5
672?	17.5	17.5	17.5
~~673~~	duplicate		
674	17.0	17.5	17.2
678	16.0	16.0	16.0
679	17.5	17.5	17.5
680	17.5	17.5	17.5
681	17.5	17.5	17.5
682	17.0	17.0	17.0
1243	17.0	17.0	17.0
1245	17.5	17.5	17.5
1250	16.0	16.5	16.2
1251?	17.0	17.0	17.0
1252	17.0	17.5	17.2
1259	16.5	17.0	16.7
1260	17.0	17.5	17.2
1247	17.0	17.0	17.0
1449	17.0	17.5	17.2
1451	16.0	16.0	16.0
1304	17.0	17.5	17.2
1305	17.0	17.5	17.2
1307	16.0	16.0	16.0
1308	16.5	17.0	16.7

Neb.	Mag.1	Mag.2	Mean
1168	17.0	17.0	17.0
1172	17.0	17.0	17.0
1175	17.0	17.0	17.0
1176	17.5	17.5	17.5
1178	16.5	17.0	16.7
1179	17.5	17.5	17.5
1180	17.0	17.5	17.2
1181	17.0	17.0	17.0
1182	17.0	17.0	17.0
1229	17.0	17.0	17.0
1230	16.5	16.5	16.5
1231	17.0	16.5	16.7
1232	16.0	16.0	16.0
1234	16.5	16.5	16.5
1236?	17.5	17.5	17.5
1237	17.0	17.0	17.0
1266	17.5	17.0	17.2
1267	17.5	17.5	17.5
1268	15.0	15.0	15.0
701	16.0	16.5	16.2
705	17.0	17.5	17.2
706	16.5	17.0	16.7
707	17.0	17.5	17.2
710	16.5	17.0	16.7

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1930phae.proj.234M

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Neb.	Mag. 1	Mag. 2	Mean
1121	17.0	17.5	17.2
1122?	17.5	17.5	17.5
1123	17.5	17.5	17.5
1162	17.0	17.0	17.0
1163	17.0	17.0	17.0
1165	17.0	17.0	17.0
1166	17.0	17.0	17.0
1167	16.5	17.0	16.7
1238	17.0	17.0	17.0
1124	17.0	17.0	17.0
1125	17.0	17.5	17.2
1126	17.0	17.5	17.2
1127	16.5	17.0	16.7
1145	17.5	17.5	17.5
~~1147~~	rejected		
1146	17.0	17.0	17.0
1148	16.5	16.5	16.5
1149	17.5	17.5	17.5
1150	17.5	17.5	17.5
1151	17.0	17.5	17.2
1152	17.5	17.5	17.5
1153	17.0	17.5	17.2
1154	17.5	17.5	17.5
1155	17.0	17.0	17.0
1158	17.5	17.5	17.5
1159	17.5	17.0	17.2
1161	17.5	17.5	17.5

Neb.	Mag. 1	Mag. 2	Mean
1170	17.0	17.0	17.0
1171	17.0	17.5	17.2
1173	16.5	17.0	16.7
1174	17.0	17.5	17.2
1105	17.0	17.5	17.2
1106	17.5	17.5	17.5
1107	17.0	17.5	17.2
1108?	17.0	17.5	17.2
1110?	16.5	17.0	16.7
1115	17.0	17.0	17.0
1118	17.0	17.5	17.2
1116	17.0	17.0	17.0
1119	17.5	17.5	17.5
1120	17.0	17.5	17.2
766	17.0	17.0	17.0
768	17.5	17.5	17.5
935	17.5	17.5	17.5
937	17.0	17.0	17.0
938	17.5	17.5	17.5
939	17.5	17.5	17.5
940	17.5	17.5	17.5
941	17.5	17.5	17.5
942?	17.0	17.0	17.0
944	17.0	17.0	17.0

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1930phae.proj.2310M

Neb.	Mag. 1	Mag. 2	Mean
949	17.0	17.5	17.2
~~950~~	~~17.5~~	rejected	
951	17.0	17.0	17.0
~~952~~	rejected		
953	17.0	17.0	17.0
957	16.0	16.5	16.2
958?	17.0	17.0	17.0
959	16.5	17.0	16.7
931	17.0	17.0	17.0
932	17.5	17.5	17.5
945	17.0	17.5	17.2
946	17.0	17.0	17.0
947	17.0	17.0	17.0
948	17.0	17.0	17.0
954	15.5	15.5	15.5
955	17.5	17.5	17.5
956	17.5	17.5	17.5
917	17.5	17.5	17.5
918	17.5	17.5	17.5
920	17.5	17.5	17.5
921	17.5	17.5	17.5
980	17.5	17.5	17.5
981	17.5	17.5	17.5
982	17.5	17.5	17.5

Neb.	Mag. 1	Mag. 2	Mean
983	17.0	17.0	17.0
984	17.5	17.5	17.5
986	17.0	17.5	17.2
988	17.0	17.5	17.2
989	17.0	17.5	17.2
990?	17.0	17.0	17.0
991	17.0	17.5	17.2
992	17.0	17.5	17.2
999	16.5	16.5	16.5
~~1000~~?	~~17.5~~	rejected	
1001?	17.5	17.5	17.5
1002?	17.5	17.5	17.5
1003	17.0	17.0	17.0
1004	17.0	17.0	17.0
1005	17.0	17.5	17.2
1006	17.5	17.5	17.5
1007	17.5	17.5	17.5
1008	17.5	17.5	17.5
1009	17.0	17.0	17.0
1013	17.0	17.5	17.2
1014	17.0	17.5	17.2
1015	17.0	17.0	17.0
1019	16.5	17.0	16.7
1040	17.0	17.0	17.0

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1990phae.proj.234M

10879

Neb.	Mag. 1	Mag. 2	Mean
996	17.0	17.0	17.0
997	17.5	17.5	17.5
998	17.0	17.0	17.0
1039	17.5	17.5	17.5
1041	17.0	17.5	17.2
~~1042~~	~~17.5~~	~~17.5~~	~~17.5~~ rejected
1043	17.5	17.5	17.5
1071	17.5	17.5	17.5
960	17.0	17.0	17.0
961	17.0	17.0	17.0
962	17.5	17.0	17.2
963	17.5	17.5	17.5
965	17.5	17.5	17.5
966	17.5	17.5	17.5
967	17.5	17.5	17.5
968	17.0	17.5	17.2
969	17.0	17.5	17.2
970	17.0	17.0	17.0
971	17.0	16.5	16.7
973	17.5	17.5	17.5
975	17.0	17.5	17.2
976	17.0	17.0	17.0
978	17.0	17.0	17.0
979	17.0	16.5	16.7

Neb.	Mag. 1	Mag. 2	Mean
993	16.5	16.5	16.5
994	17.0	17.5	17.2
995?	17.5	17.5	17.5
1102	17.0	17.0	17.0
1104	17.0	16.5	16.7
1097	17.5	17.5	17.5
1128?	17.5	17.5	17.5
1137	17.5	17.5	17.5
1138	17.0	17.0	17.0
1139	17.0	17.0	17.0
1140	17.0	17.5	17.2
1136	16.5	17.0	16.7
1141	17.0	17.0	17.0
1142	17.0	16.5	16.7
1144?	17.0	17.0	17.0
1188	17.0	17.0	17.0
1183?	17.5	17.0	17.2
1184	17.0	16.5	16.7
1185?	17.0	17.0	17.0
1222	16.0	16.0	16.0
1226	16.5	16.5	16.5
1227	17.0	17.0	17.0
1215?	17.0	17.5	17.2
1216	16.5	16.0	16.2

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1930phae.proj.2340M

Neb.	Mag. 1	Mag. 2	Mean
1218	17.0	17.0	17.0
1219	17.0	17.0	17.0
1220	16.5	16.5	16.5
1221	16.0	16.0	16.0
1277?	17.5	17.5	17.5
1278	16.5	17.0	16.7
1279	17.0	17.0	17.0
1280	16.0	16.5	16.2
1287	17.0	17.0	17.0
1288	16.0	16.0	16.0
1289	17.0	17.0	17.0
1290	17.0	17.0	17.0
1265	17.5	17.5	17.5
1269	17.5	17.5	17.5
1270	17.0	17.0	17.0
1271?	17.0	17.0	17.0
1272	16.5	16.5	16.5
1276	15.5	15.5	15.5
1281	17.0	17.0	17.0
1282	17.0	17.0	17.0
1283	16.5	16.0	16.2
1284	17.0	17.0	17.0
1285	16.5	16.0	16.2
1297	17.5	17.5	17.5

Neb.	Mag. 1	Mag. 2	Mean
1298?	17.5	17.0	17.2
1299	17.5	17.5	17.5
1301	16.5	17.0	16.7
1302	17.5	17.5	17.5
1303	16.0	15.5	15.7
1320	17.0	17.5	17.2
1321	17.0	17.5	17.2
1323	17.0	17.0	17.0
1324	16.5	16.5	16.5
1326	17.0	17.5	17.2
1327	16.5	17.0	16.7
1429	17.0	17.0	17.0
1431	16.5	16.5	16.5
1432	16.5	17.0	16.7
1433?	17.0	17.0	17.0
1438	16.5	16.5	16.5
1439	17.0	17.0	17.0
1440	17.0	17.0	17.0
1441	17.0	17.5	17.2
~~1378~~	rejected	~~17.0~~	
1380	17.0	17.0	17.0
1381	17.0	~~16.0~~ 17.0	17.0
1382	16.5	~~17.0~~ 16.5	16.5
1383?	17.0	17.0	17.0

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1930phae.proj.234M

Neb.	Mag. 1	Mag. 2	Mean	
1420	17.0	16.5-	16.7	
1421?	17.5-	17.5-	17.5-	
1422	17.0	16.5	16.7	
1423	17.5-	17.5-	17.5-	
1424	16.5-	16.5-	16.5-	
1425-	17.0	16.5	16.7	
1428	17.0	17.0	17.0	
1353	17.0	16.5-	16.7	
1354	17.0	16.5-	16.7	
1355?	17.0	16.5-	16.7	
1356	17.0	17.0	17.0	
1357?	17.0	17.0	17.0	
1362	16.5-	16.0	16.2	
1374	17.5-	17.5-	17.5-	
1376	17.0	17.0	17.0	
1293	16.5-	16.0	16.2	
1294	17.0	16.5-	16.7	
1295?	16.5-	16.0	16.2	
1246	13.5-	13.5-	13.5-	
1348?	17.0	17.0	17.0	
1349?	16.5-	17.0	16.7	
1346?	17.0	17.5-	17.2	
1347	17.0	17.0	17.0	
~~1350~~	~~16.0~~	~~16.5-~~	~~16.5~~	two stars

Neb.	Mag. 1	Mag. 2	Mean
1351	16.0	16.0	16.0
1352	16.0	16.5-	16.2
1375?	16.5-	16.5-	16.5
1291	16.0	16.0	16.0
1292	17.0	17.5-	17.2
1328	17.0	17.0	17.0
1329?	17.5-	17.5-	17.5
1330	17.0	17.0	17.0
1331	17.5-	17.5-	17.5
1332?	17.0-	17.0	17.2
1334	17.0	17.5-	17.2
1336	17.0	17.5-	17.2
1337?	16.5-	17.0	16.7
1338	16.0	15.5?	15.7
1339	17.0	17.0	17.0
1340	17.0	17.0	17.0
1341	17.0	17.5-	17.2
1344	16.5-	16.5-	16.5
1345-	17.0	17.0	17.0
1203	15.0	15.0	15.0
1205a	16.5-	17.0 ~~16.5-~~	16.7 ~~16.5-~~
1205b	16.5	17.0	16.7
1206	16.5-	~~16.0~~	16.2
1207	16.5-	16.0	16.2
1208	15.5-	15.5-	15.5

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Neb.	Mag. 1	Mag. 2	Mean
1209	16.0	16.5	16.2
1210	16.0	16.0	16.0
1211	16.0	16.0	16.0
1212	16.5	16.5	16.5
1213	15.5	15.5	15.5
1214	16.5	16.5	16.5
1190	16.5	16.5	16.5
1192	17.0	17.0	17.0
1193	16.0	16.5	16.2
1194	15.5	16.0	15.7
1195	16.0	16.0	16.0
1196	16.5	16.5	16.5
1197	16.5	16.0	16.2
1198	15.5	15.5	15.5
1199	15.5	16.0	15.7
1201	16.0	16.5	16.2
1202	16.5	17.0	16.7
1217	16.0	16.0	16.0
1129	17.0	17.0	17.0
1130	16.5	16.5	16.5
1131	17.0	17.0	17.0
1132	16.5	17.0	16.7
1133	16.5	17.0	16.7
1134	16.5	16.5	16.5
1135?	16.0	16.5	16.2

Neb.	Mag. 1	Mag. 2	Mean

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1930phae.proj.234M

Neb.	Mag. 1	Mag. 2	Mean	Neb.	Mag. 1	Mag. 2	Mean

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1930phae.proj.234PM

Neb.	Mag. 1	Mag. 2	Mean	Neb.	Mag. 1	Mag. 2	Mean.

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Neb.	Mag. 1	Mag. 2	Mean.	Neb.	Mag. 1	Mag. 2	Mean.

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Neb.	Mag.1	Mag.2	Mean	Neb.	Mag.1	Mag.2	Mean

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Neb.	Mag. 1	Mag. 2	Mean	Neb.	Mag. 1	Mag. 2	Mean

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1950plate.proj.254M

Blue = van Rhijn only

McCay University

H. 12415

	Neb.	Mag III a	Mag III b	Mag I IIa	Mag II	Mean I+II	I, II, IIa	Diam I	Diam II	Mean		Class.
1	233	16.4	16.5	16.5	16.7 17.0	16.2 16.4	16.5	16.7 +3	2.0	1.5	2.0	c9
2	662	17.5	17.5	17.5	17.3 18.0	17.2 17.5	18.0	17.7 +2	1.0	1.0	1.0	b8
3	561	17.8	17.7	18.0	17.8 18.0	17.4 17.7	18.0	17.9 +1	1.0	1.0	1.0	b9
4	230	17.6	17.4	17.5	17.7 17.5	17.2 17.0	17.5	17.6 +1	1.0	1.5	1.5	a9
5	560	16.2	16.3	16.5	16.4 16.5	16.0 16.2	16.5	16.5 +3	2.0	1.5	2.0	d9
	1832 - 3807.1											
6	559	17.4	17.5	17.5	17.6 17.5	17.2 17.5	17.5	17.5 0	1.5	2.0	2.0	pSa7
7	558	16.1	16.3	16.5	16.8 16.5	16.0 16.2	16.5	16.6 +1	1.0	1.0	1.0	c9
8	557	17.7	17.6	17.0	{17.7 17.8	17.3 17.6	17.0	17.5 +1	1.0	1.0	1.0	b8
9	221	16.4	16.5	16.5	16.7 17.0	16.3 16.5	17.0	16.7 +2	2.0	1.5	2.0	c8
10	556	16.8	16.9	17.0	16.9 17.0	16.5 16.8	17.0	17.0 -2	1.0	1.0	1.0	b9
11	553	17.4	17.4	17.5	17.3 17.5	17.1 17.4	17.5	17.4 0	1.0	1.0	1.0	b9
12	554	17.0	17.2	17.5	17.2 17.5	16.9 17.1	17.5	17.4 -3	1.0	1.0	1.0	b10
13	220	16.3	16.4	16.5	16.5 17.0	16.0 16.3	16.5	16.7 -4	2.0	2.0	2.0	b6
	1832 - 3127.7											
14	761	17.9	18.1	18.0	18.1 18.0	17.7 18.0	18.0	18.0 0	1.0	1.0	1.0	a10
15	540	17.7	17.9	17.5	17.8 18.0	17.5 17.8	18.0	17.8 0	2.0	2.5	2.5	10° a5
16	768	17.6	17.6	18.0	17.8 18.0	17.3 17.6	18.0	17.9 -3	1.5	1.0	1.5	a6
17	766	17.7	17.7	18.0	17.8 18.0	17.4 17.7	18.0	17.9 -2	0.5	1.0	1.0	b7
18	767	16.9	17.2	17.5	17.4 17.5	16.8 17.0	17.5	17.5 -5	1.0	1.5	1.0	a6
19	1065	17.8	18.1	18.0	17.9 18.0	17.7 18.0	18.0	18.0 0	1.0	1.0	1.0	a6
20	765	17.4	17.3	17.5	17.3 17.5	17.1 17.4	17.5	17.4 0	1.0	1.0	1.0	b6
21	764	17.7	17.8	18.0	17.8 {18.0 17.9	17.1 17.7	18.0	17.9 -2	1.0	1.0	1.0	a9
22	763	17.2	17.2	17.0	17.2 17.5	17.0 17.2	17.0	17.2 0	1.0	1.5	1.5	b8
23	762	17.6	17.5	18.0	17.2 {17.5 17.0	17.3 17.6	17.5	17.4 +2	1.0	1.0	1.0	a9

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Mc Coy Univatar

	Plate	Mag. I		Mag. II		Mean		Diam. I	Diam II	Mean		Class.
24	760	17.8	18.0	18.0	17.9	18.0	17.6 / 17.9	18.0	18.0^{-1}	1.0	0.5	1.0		a9
25	759	17.5	17.4	17.5	17.6	17.0	17.2 / 17.5	17.0	17.4^{+1}	1.0	1.5	1.5		b7
26	1031	17.8	17.7	18.0	17.8	18.0	17.5 / 17.8	18.0	17.9^{-1}	1.5	2.0	1.5		b7
27	772	17.1	17.2	17.0	17.2	17.0	16.9 / 17.1	17.0	17.2^{-1}	1.5	1.0	1.0	999 probably asteroidal trail	a5
28	216 1329-3151.7	16.7	16.5	16.5	16.7	17.0	16.4 / 16.6	17.0	16.7^{-1}	1.5	1.5	1.5		b9
29	770	17.6	17.5	17.5	17.8	17.5	17.3 / 17.6	17.5	17.6^{0}	2.0	1.0	1.5		a8
30	774	17.8	17.7	18.0	18.0	18.0	17.4 / 17.7	18.0	18.0^{-3}	1.0	1.5	1.0	110°	a5
31	773	16.9	17.2	17.0	16.8	17.0	16.8 / 17.0	17.0	16.9^{+1}	1.5	2.0	2.0		a7
32	752	17.9	17.9	18.0	18.0	18.0	17.6 / 17.9	18.0	18.0^{-1}	0.5	1.0	0.5		a9
33	b2	16.3	16.0	16.5	16.7 / ~~17.2~~	16.5	16.0 / 16.2	16.5	16.6^{-4}	1.5	1.5	1.5		b7
34	758	17.2	17.1	17.0	17.3	17.0	17.0 / 17.2	17.0	17.1^{+1}	1.0	1.0	1.0		a9
35	222 1330-3117.6	16.3	16.3	16.5	16.8	16.5	16.0 / 16.3	16.5	16.6^{-3}	1.5	1.0	1.0		c9
36	757	17.2	17.4	17.5	17.6	17.5	17.1 / 17.4	17.5	17.5^{-1}	1.0	1.0	1.0		a8
37	223 1330-3115.8	16.1	15.8	16.5	16.7	16.5	15.8 / 16.0	16.5	16.6^{-6}	3.0	3.0	3.0		c7
38	756	17.8	17.8	18.0	17.8	18.0	17.5 / 17.8	18.0	17.9^{-1}	1.0	1.0	1.0		b9
39	755	17.0	16.9	17.0	17.4	17.0	16.7 / 16.9	17.0	17.1^{-2}	1.5	1.5	1.5		c9
40	754	17.6	17.7	17.5	17.7	17.5	17.3 / 17.6	17.5	17.6^{0}	1.0	1.0	1.0		b10
41	751	17.4	17.6	17.5	17.6	17.5	17.2 / 17.5	17.5	17.5^{0}	1.0	1.0	1.0		a7
42	750	17.2	17.0	17.0	17.2	17.0	16.9 / 17.1	17.0	17.1^{0}	1.5	1.5	1.5		a6
43	749	17.6	17.6	18.0	17.7	17.5	17.3 / 17.6	18.0	17.7^{-1}	1.0	1.0	1.0		a9
44	748	17.7	17.7	18.0	17.8	17.5	17.4 / 17.7	17.5	17.8^{-1}	1.0	1.5	1.0		a10
45	746 a	17.5	17.5	17.5	17.6	17.0	17.2 / 17.5	17.5	17.4^{+1}	1.0	1.5	1.5		c10
46	224 1329-3117.3	17.3	17.4	17.5	17.2	17.0	17.0 / 17.3	17.0	17.2^{+1}	1.5	1.5	1.5		b8

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3.

McCoy Universe

	Ycb.	Mag. I		Mag. II		Mean		Diam. I	Diam. II	Mean		Class.
47	1032	17.6	17.5	18.0	17.2	18.0	17.3 17.6	18.0	17.7 -1	1.0	1.0	1.0		b10
48	703	17.4	17.3	17.5	17.5	17.5	17.0 17.2	17.5	17.5 -2	1.0	1.0	1.0		a10
49	685	17.4	17.1	17.5	17.6	17.5	17.0 17.2	17.5	17.5 -3	1.0	1.0	1.0		a7
50	684 1329-3114.1	16.5	16.5	17.0	16.9	17.0	16.3 16.5	17.0	17.0 -5	1.0	1.0	1.0		c9
51	686 1328-3114.1	16.3	16.2	17.0	16.6	16.5	16.0 16.2	17.0	16.7 -5	1.0	1.0	1.0		b10
52	681a 1328-3113.6	17.5	17.7	18.0	17.7	17.5	17.3 17.6	17.5	17.7 -1	1.0	1.0	1.0		a7
53	681	17.7	17.8	18.0	17.8	18.0	17.4 17.7	18.0	17.9 -2	1.0	1.0	1.0		a8
54	682	17.6	17.5	18.0	17.6	18.0	17.3 17.6	18.0	17.9 -3	0.5	1.0	0.5	adjoining a star	a8
55	683	17.5	17.5	18.0	17.7	17.5	17.2 17.5	18.0	17.7 -2	1.0	1.5	1.5		a9
56	739	17.6	17.6	18.0	17.8	17.5	17.3 17.6	17.5	17.8 -2	1.0	1.0	1.0		a7
57	287	17.6	17.5	18.0	17.7	18.0	17.2 17.5	18.0	17.9 -4	1.0	1.0	1.0		b8
58	694	17.4	17.3	17.5	17.3	17.5	17.1 17.4	17.5	17.4 0	1.0	1.0	1.0		a10
59	678	17.6	17.5	18.0	17.8	17.5	17.2 17.5	18.0	17.8 -3	1.0	1.0	1.0		b9
60	675	17.6	17.5	18.0	17.9	17.5	17.3 17.6	17.5	17.7 -1	1.0	1.0	1.0		a8
61	676 1329-3105.5	17.0	17.0	17.0	16.8	16.5	16.8 17.0	17.0	16.8 +2	1.5	2.0	1.5		a9
62	677 1329-3106.3	16.8	16.5	17.0	16.7	16.5	16.4 16.6	16.5	16.7 -1	1.0	1.0	1.0		a8
63	674 1329-3108.7	15.9	15.8	17.0	16.5	16.5	15.7 15.9	17.0	16.7 -8	1.5	1.5	1.5		b9
64	680	17.7	17.8	17.5	17.8	17.5	17.5 17.8	17.5	17.6 +2	1.5	1.0	1.0		a9
65	1033	17.6	17.7	17.5	17.9	17.5	17.4 17.7	17.5	17.6 +1	1.5	1.5	1.5		a10
66	228a	16.3	16.3	16.5	16.7	16.5	16.0 16.3	16.5	16.6 -3	2.0	2.0	2.0		c8
67	228b	16.9	17.2	17.0	17.2	17.0	16.8 17.0	17.0	17.1 -1	1.0	1.0	1.0		b9
68	1000	17.5	17.5	17.0	17.2	17.0	17.2 17.5	17.0	17.1 +4	1.5	1.0	1.5		a9
69	1035	18.0	18.1	18.0	18.2	18.0	17.7 18.0	18.0	18.1 -1	1.0	1.0	1.0		b9

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McCoy Universe

	Neb.		Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean		Class.
70	673	17.4 17.5	18.0	17.8	18.0	17.2 17.5 18.0	17.9 -4	1.0	1.0	1.0	a7
71	672	16.5 16.5	17.0	16.9	17.0	16.3 16.5 17.0	17.0 -5	1.0	1.0	1.0	a8
72	671	17.8 17.8	17.0	17.7	18.0 18.0	17.5 17.8 18.0	17.8 0	1.5	1.0	1.0	a9
73	670	17.8 17.8	18.0	17.9	18.0	17.5 17.8 18.0	18.0 -2	1.5	1.5	1.5	a8
74	1034	17.5 17.6	17.5	17.7	17.5	17.3 17.6 17.5	17.6 0	1.0	1.0	1.0	b6
75	669 1329-3055.8	16.9 16.9	17.5	17.4	17.5	16.7 16.9 17.5	17.5 -6	1.0	1.0	1.0	c9
76	668	17.4 17.5	18.0	17.6	17.5	17.2 17.5 17.5	17.7 -2	1.0	1.0	1.0	b8
77	667	18.0 17.8	18.0	17.8	17.5	17.6 17.9 18.0	17.8 +1	1.5	1.0	1.5	a8
78	666 1329-3055.7	17.5 17.3	17.5	17.4	17.0	17.1 17.4 17.0	17.3 +1	1.5	1.5	1.5	b9
79	665 1329-3054.89	16.7 17.0	17.0	17.2	17.0	16.6 16.8 17.0	17.1 -3	1.0	0.5	1.0	a8
80	664	17.5 17.5	17.5	17.8	18.0	17.2 17.5 17.5	17.8 -3	1.0	1.0	1.0	b9
81	663	17.3 17.5	17.5	17.7	17.5	17.1 17.4 17.5	17.6 -2	1.0	1.0	1.0	b8
82	231	17.7 17.8	17.5	17.8	17.5	17.5 17.8 17.5	17.6 +2	4.0	3.0	3.5	160° a3
83	232	17.0 17.5	17.5	17.7	17.5	17.2 17.5 17.5	17.6 -1	2.0	2.0	2.0	170° a5
84	661	17.6 17.8	18.0	17.9	18.0	17.4 17.7 18.0	18.0 -3	1.0	1.0	1.0	a8
85	657	17.9 18.2	18.0	18.1	18.0	17.7 18.0 18.0	18.0 0	1.0	1.0	1.0	a6
86	658	17.7 17.7	18.0	17.9	18.0	17.4 17.7 18.0	18.0 -3	1.0	1.0	1.0	a6
87	656	17.9 17.6	17.5	17.7	17.5	17.5 17.8 17.5	17.6 +2	1.0	0.5	1.0	a7
88	659	16.3 16.0 16.9	16.5	16.5	17.0	15.9 16.1 17.0	16.7 -6	0.5	1.0	1.0	c9
89	660	16.9 16.7	17.0	16.7	17.5	16.6 16.8 17.0	16.7 +1	1.0	1.0	1.0	b9
90	239 1330-3021.9	14.8 14.5	15.0	15.3	15.5	14.4 14.6 15.5	15.3 -7	6.0	5.0	5.5	d6
91	238 1330-3024.9	15.1 15.1	16.0	16.1	16.5	14.9 15.1 16.0	16.2 -11 ?	2.0	2.5	2.0	c8
92	1066	17.4 17.5	17.5	17.7	17.5	17.2 17.5 17.5	17.6 -1	1.0	1.0	1.0	a9

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McCoy Equivorea

	Wrb.		Mag. I			Mag. II		Mean		Diam I	Diam II	Mean		Class.
93	652	17.8	18.0	18.0	18.0	18.0	17.6	17.9	18.0	18.0	1.5	1.0	1.0		a 10
94	240 b	17.6	17.9	18.0	17.8	18.0	17.5	17.8	18.0	17.9	2.0	2.0	2.0		a 9
95	240a	16.9	17.1	17.5	17.3	17.5	16.8	17.0	17.5	17.4	1.0	1.0	1.0		b 10
519	1078	17.5	17.4	17.0	17.6	17.0	17.1	17.4	17.0	17.2	1.0	2.0	1.5 (probably elongated)	110°	b 4
96	653	17.9	17.9	18.0	18.2	18.0	17.6	17.9	18.0	18.0	1.5	1.0	1.5		a 8
97	655	18.0	17.8	18.0	18.0	18.0	17.6	17.9	18.0	18.0	1.0	1.0	1.0		a 10
98	654	17.9	17.7	18.0	18.0	18.0	17.5	17.8	18.0	18.0	0.5	1.0	1.0		a 9
99	1045	17.3	17.1	17.5	17.4	17.0	17.0	17.2	17.0	17.3	1.5	1.5	1.5 effect?	90°	i b 5
100	1042	17.7	17.7	18.0	17.7	17.5	17.4	17.7	18.0	17.7	1.0	1.0	1.0		b 9
101	1043	17.8	17.8	18.0	18.0	18.0	17.5	17.8	18.0	18.0	1.0	1.0	1.0		a 7
102	1044	17.4	17.6	17.5	17.6	17.5	17.2	17.5	17.5	17.5	1.0	1.0	1.0		a 8
103	1040	17.0	17.6	17.5	17.9	17.5	17.2	17.2	17.5	17.6	2.0	2.0	2.0	110°	a 3
104	707	17.9	17.7	18.0	18.0	17.5	17.5	17.8	17.5	17.8	1.5	2.0	1.5		a 9
105	1030	17.3	17.4	17.0	17.4	17.0	17.1	17.4	17.0	17.1	1.0	1.5	1.5		i b 6
106	1028	17.7	17.6	17.5	17.7	17.0	17.4	17.7	17.5	17.4	1.0	1.5	1.0		a 9
107	1029	17.8	17.8	18.0	18.1	17.5	17.5	17.8	17.5	17.5	1.0	1.5	1.5		a 9
108	1019	17.4	17.3	17.0	17.4	17.0	17.1	17.4	17.0	17.1	1.0	1.0	1.0		b 8
109	1018	16.6	16.7	17.0	17.3	17.0	16.5	16.7	17.0	17.1	1.0	1.0	1.0		b 9
110	703	17.1	17.2	17.5	17.6	17.0	17.0	17.2	17.5	17.4	1.5	1.5	1.5		b 9
111	1026 a	17.8	18.0	18.0	18.0	18.0	17.6	17.9	18.0	18.0	1.0	1.0	1.0		a 10
112	1027	17.0	17.2	17.5	17.5	17.5	16.9	17.1	17.5	17.5	1.0	1.0	1.0		b 7
113	290	17.3	17.1	17.5	17.4	17.0	17.0	17.2	17.0	17.3	1.5	1.5	1.5		b 8
114	286	17.6	17.4	17.5	17.5	17.5	17.2	17.5	17.5	17.5	1.0	1.0	1.0		a 9
115	288	17.2	17.2	17.5	17.4	17.0	17.0	17.2	17.5	17.3	1.0	1.5	1.0		b 9

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Mc Coy Universe

	Nrb.			May. I		May. II		Mean		Mean I	Mean II	Mean		Class
116	289	17.2	{16.8 16.8	17.5	17.2	17.0	16.7 16.9	17.0	17.2	1.0	1.0	1.0		c8
117	227a	16.3	16.0	16.5	16.7	16.0	16.0 16.2	16.5	16.4	2.0	1.5	1.5		c10
118	227b	17.2	17.4	17.5	17.4	17.0	17.0 17.3	17.0	17.3	1.0	1.0	1.0		b10
119	227c	16.9	17.1	17.0	17.0	16.5	16.8 17.0	17.0	16.8	1.5	1.5	1.5		b8
120	227d	17.0	17.0	17.5	17.3	17.0	16.8 17.0	17.0	17.3	1.5	1.5	1.5	90°	b5
518	292a	16.5	16.5	17.0	16.9	16.5	16.3 16.3	17.0	16.8	1.0	1.0	1.0		c10
121	292	17.4	17.4	17.5	18.1	17.5	17.1 17.4	17.5	17.7	1.0	0.5	1.0		a9
122	227	17.5	17.8	17.5	17.8	17.5	17.3 17.6	17.5	17.6	1.0	0.5	0.5		a9
123	227e	17.3	17.2	17.0	17.3	17.0	17.0 17.3	17.0	17.1	0.5	1.0	0.5		b9
124	229	16.9	16.8	17.0	17.2	16.5	16.7 16.9	16.5	16.9	5.0	4.0	4.5		a3
125	704	17.9	17.8	18.0	18.0	18.0	17.5 17.4	18.0	18.0	1.0	1.0	1.0		a9
126	705	17.9	17.9	18.0	17.8	18.0	17.6 17.9	18.0	17.9	1.0	1.0	1.0		b8
127	706	17.9	17.6	18.0	17.6	17.5	17.4 17.7	18.0	17.7	1.0	1.0	1.0		a8
128	697a	16.3	16.4	17.0	16.9	16.5	16.2 16.4	16.5	16.8	1.5	1.5	1.5		a9
129	697	17.4	17.5	17.5	17.4	17.5	17.2 17.5	17.5	17.5	1.0	0.5	0.5		a8
130	696	17.3	17.5	17.5	17.7	17.5	17.1 17.4	17.5	17.6	1.0	1.0	1.0		a8
131	226a	16.7	16.9	17.0	17.3	17.0	16.6 16.8	17.0	17.1	1.0	1.0	1.0		b8
528	226d	17.5	17.6	18.0	17.8	18.0	17.3 17.6	18.0	17.9	1.0	1.0	1.0		a7
132	226b	15.9	15.9	16.5	16.7	16.5	15.7 15.9	16.5	16.6	1.5	1.5	1.5		c8
133	226c	17.4	17.4	17.5	17.7	17.0	17.4 17.4	17.5	17.4	2.0	2.0	2.0		b4
134	1020	17.4	17.5	17.5	17.7	17.5	17.1 17.4	17.5	17.6	1.0	1.0	1.0		b9
135	1021	17.3	17.6	17.5	17.7	17.0	17.1 17.4	17.0	17.4	1.0	1.5	1.5		c9
136	1022	17.4	17.7	18.0	17.7	17.5	17.3 17.6	18.0	17.7	1.5	1.5	1.5		a9
137	1023	17.3	17.6	17.5	17.6	17.5	17.1 17.4	17.5	17.5	1.0	1.0	1.0		b10
138	1024	17.4	17.5	17.5	17.8	17.5	17.2 17.5	17.5	17.6	1.5	1.5	1.5		a8
139	1025	17.6	17.9	18.0	17.9	18.0	17.5 17.8	18.0	18.0	1.5	1.0	1.5		a10
140	1067	17.9	18.0	17.5	17.8	17.5	17.7 18.0	17.5	17.6	1.0	1.0	1.0		a8

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I

Mc Coy Universe

	Nr.		Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean	Class.
141	1026	18.0 {18.0 17.5	18.0	18.1	17.5	17.5 / 17.8	17.5	17.7	1.5	1.0	1.0	a9
142	726	16.9	16.7	17.5	17.3	17.0	16.6 / 16.8	17.5	17.3	1.0	1.5	1.0	a9
143	727	17.7	17.4	18.0	17.6	17.5	17.3 / 17.6	17.5	17.7	1.5	1.5	1.5	a8
144	728 1327-3118.9	17.2 {16.6 16.5	17.5	16.9	17.0	16.6 / 16.8	17.5	17.1	1.5	1.0	1.0	b9
145	724	17.9	18.0	18.0	18.0	18.0	17.6 / 17.9	18.0	18.0	1.5	1.5	1.5	a9
146	1038	17.4	17.2	17.5	17.6	17.5	17.0 / 17.3	17.5	17.5	1.0	1.5	1.0	a8
147	730	17.2	16.9	17.0	17.5	17.0	16.8 / 17.0	17.0	17.2	1.0	1.0	1.0	b8
148	731	17.3	17.3	17.0	17.6	17.5	17.0 / 17.3	17.5	17.4	1.0	1.0	1.0	b7
149	122 1327-3127.1	16.2	15.9	16.5	16.6	16.5	15.8 / 16.0	16.5	16.6	2.0	1.5	1.5	c9
150	733	17.7	17.8	18.0	18.0	17.5	17.5 / 17.8	18.0	17.8	1.0	1.0	1.0	b9
151	735	17.9	18.0	17.5	17.9	18.0	17.6 / 17.9	18.0	17.8	1.0	1.0	1.0	a8
152	736	18.1	17.9	18.0	18.1	18.0	17.7 / 18.0	18.0	18.0	1.0	1.0	1.0	a9
153	737	17.6	17.5	17.5	17.7	17.5	17.3 / 17.6	17.5	17.6	1.0	1.5	1.0	a9
154	225	16.9	16.8	17.0	17.4	17.0	16.7 / 16.9	17.0	17.1	1.5	1.5	1.5	b8
155	738	17.8	17.8	18.0	17.9	17.5	17.5 / 17.8	18.0	17.8	1.0	1.0	1.0	a9
156	740	17.9	17.9	18.0	18.0	17.5	17.6 / 17.9	17.5	17.8	1.0	1.0	1.0	a9
157	741	17.7	17.8	17.5	17.9	17.5	17.5 / 17.8	17.5	17.6	1.0	1.0	1.0	a9
158	742	17.5	17.4	17.5	17.5	17.5	17.2 / 17.5	17.5	17.5	1.0	1.5	1.5	b7
159	743a	17.5	17.7	17.5	17.6	17.5	17.3 / 17.6	17.5	17.5	1.0	1.0	1.0	b7
160	744	17.7	17.7	17.5	17.8	17.5	17.4 / 17.7	17.5	17.6	1.0	1.0	1.0	a8
161	743b	17.2	17.3	17.0	17.2	17.0	17.0 / 17.2	17.0	17.1	1.0	1.0	1.0	b9
162	746	17.4	17.5	17.0	17.6	17.5	17.2 / 17.5	17.0	17.4	1.0	1.0	1.0	b9
163	734	17.0	17.0	17.0	17.3	17.0	16.8 / 17.0	17.0	17.1	1.5	1.5	1.5	a8

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McCoy Universe

	Neb.	Mag. I		Mag. II		Mean			Diam. I	Diam. II	Mean		Class.
164	732	17.7	18.0	17.5	17.7	17.5	17.8	17.5	17.6	1.0	1.0	1.0		a8
165	776	17.4	17.5	17.5	18.1	18.0	17.4	18.0	17.9	1.0	1.5	1.0		a7
166	777	17.6	17.9	18.0	18.1	18.0	17.8	18.0	18.0	1.0	1.5	1.5		a8
167	1036	17.9	17.7	17.5	17.9	17.5	17.8	17.5	17.6	0.5	1.0	0.5		b8
168	780	17.4	17.5	17.0	17.5	17.0	17.5	17.0	17.2	1.0	1.5	1.5		a10
169	1037	16.8	16.7	17.5	17.2	17.0	16.8	17.5	17.2	1.0	1.0	1.0		b9
170	121	16.9	16.6	17.0	17.2	17.0	16.8	17.0	17.1	2.0	2.0	2.0		a7
171	807	17.8	17.8	18.0	17.8	17.5	17.8	17.5	17.8	1.0	1.0	1.0		a8
172	1047	16.6	16.8	16.5	17.1	16.5	16.7	16.5	16.7	2.0	1.5	2.0		b8
173	1048	17.7	17.8	17.5	17.6	17.5	17.7	17.5	17.5	1.5	1.5	1.5		a9
174	805	17.6	17.7	18.0	17.6	17.5	17.8	18.0	17.7	2.0	2.0	2.0		a9
175	64	17.0	17.3	16.5	17.3	16.5	17.2	16.5	16.8	4.5	3.5	4.0		b10
176	804	17.7	17.5	18.0	17.8	17.5 / 17.0	17.6	17.5	17.3	2.0	1.5	1.5		a8
177	805a	17.3	17.6	18.0	17.3	17.5 / 17.0	17.4	17.5	17.3	1.0	1.0	1.0		a8
	1331-3157.1													
178	808	16.5	16.3	17.0	17.0	17.0	16.4	17.0	17.0	1.0	1.0	1.0		b9
179	781	17.6	17.6	17.5	17.6	17.0	17.6	17.0	17.4	5.0	4.0	4.5	5.0°	b4
180	809a	17.5	17.7	18.0	17.7	17.5	17.6	18.0	17.7	1.0	1.5	1.0		a7
181	140	17.2	17.5	17.0	17.3	17.0	17.4	17.0	17.1	1.5	2.0	2.0		a9
	1325-3138.3													
182	810	17.3	17.3	17.0	17.6	17.0	17.3	17.0	17.2	1.0	1.0	1.0		b10
183	58	17.0	16.8	16.5	17.3	17.0	16.9	17.0	16.9	2.0	2.0	2.0		b10
184	811	17.4	17.2	17.5	17.5	17.5	17.3	17.5	17.1	1.0	1.0	1.0		a9
185	1050	17.2	17.0	17.0	17.4	17.0	17.1	17.0	17.1	1.0	1.0	1.0		a9
186	1051	16.7	16.8	17.0	17.0	17.0	16.7	17.0	17.0	1.0	1.0	1.0		b10

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9. E

Mc Coy Universe

	Neb.			Mag. I			Mean			Harm. I	Harm. II	Mean	Class.
187	1049	16.9	16.6	17.0	17.2	17.0	16.6 16.8	17.0	17.1	1.5	1.5	1.5	b8
188	726	17.6	17.9	18.0	18.1	18.0	17.5 17.8	18.0	18.0	1.5	1.5	1.5	a6
189	725	17.4	17.7	18.0	17.8	17.5	17.3 17.6	18.0	17.8	1.0	1.0	1.0	a9
190	722	17.9	17.9	17.5	17.9	17.5	17.6 17.9	17.5	17.6	2.0	1.0	1.5	a6
191	721	17.7	17.8	17.5	17.9	17.0	17.5 17.8	17.0	17.5	2.0	1.5	2.0	a6
192	720	17.5	17.7	17.5	17.7	17.5	17.3 17.6	17.5	17.6	2.5	2.0	2.0	b6
193	723	16.9	16.7	16.5	17.2	17.0	16.6 16.8	16.5	16.9	2.0	1.5	2.0	b8
194	1001	17.3	17.3	17.0	17.5	17.0	17.0 17.3	17.0	17.2	1.0	1.5	1.5	b8
195	813	16.6	16.6	17.0	17.4	17.0	16.7 16.6	17.0	17.1	1.5	1.5	1.5	b8
196	814	16.7	16.7	17.0	17.3	17.0	16.5 16.7	17.0	17.1	2.0	1.5	2.0	a8
197	812	17.3	17.2	17.5	17.7	17.5	17.0 17.3	17.5	17.6	1.0	1.0	1.0	c10
198	818	17.0	16.7	17.0	17.4	17.0	16.6 16.8	17.0	17.1	1.5	1.5	1.5	b9
199	816	17.5	17.7	17.5	17.7	17.5	17.3 17.6	17.5	17.6	1.0	1.0	1.0	a9
200	817	17.5	17.7	17.5	17.8	18.0	17.3 17.6	18.0	17.8	0.5	0.5	0.5	a10
201	815	17.3	17.3	17.0	17.6	17.5	17.0 17.3	17.0	17.4	1.5	1.0	1.0	a10
202	135a	16.3	16.4	16.5	17.3	17.0	16.2 16.4	17.0	16.9	1.5	1.0	1.5	c9
203	135b	16.9	16.9	17.0	17.5	17.0	16.7 16.9	17.0	17.3	1.0	1.0	1.0	a9
204	136	16.6	16.5	17.0	17.0	17.5	16.3 16.5	17.5	17.2	1.5	1.5	1.5	a10
205	137 1326-3115-9	15.8	15.5	16.0	16.6	16.5	15.4 15.6	16.0	16.4	1.5	1.5	1.5	c9
206	803	17.7	17.4	17.5	17.8	17.5	17.3 17.6	17.5	17.6	1.0	1.0	1.0	a8
207	850	17.0	17.0	17.5	17.5	17.5	16.8 17.0	17.5	17.5	1.0	1.0	1.0	b8
208	848	17.9	17.8	17.5	18.0	18.0	17.5 17.8	18.0	17.8	1.0	1.0	1.0	a9
209	847	18.1	17.9	18.0	18.2	18.0	17.7 18.0	18.0	18.1	1.0	1.0	1.0	a9

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1950phtae.proj.2348M

McCay Universe

	Nos.		Mag. I		Mag. II		Mean		Diam. I		Diam. II		Mean		Class.
210	55a	16.4	16.4	16.5	17.4	17.0	16.2 16.4	16.5	17.0	-6	1.0	1.5	1.5		a9
211	55b	16.3	16.3	17.0	17.4	17.0	16.0 16.3	17.0	17.1	-8	2.0	1.5	2.0		a10
212	54	16.4	16.3	16.5	17.2	17.0	16.0 16.3	17.0	16.9	-6	3.0	2.5	2.5		b10
	1325-3110.1														
213	862	16.0	16.1	16.5	17.0	16.5	15.8 16.0	16.5	16.7	-7	1.0	1.0	1.0		b10
214	849	17.0	16.7	17.0	17.3	17.0	16.6 16.8	17.0	17.1	-3	1.5	1.5	1.5		a7
215	851	16.7	16.5	17.0	17.1	17.0	16.4 16.6	17.0	17.0	-4	1.5	1.5	1.5		b9
216	852	17.3	17.2	17.5	17.6	17.5	17.0 17.3	17.5	17.3	-2	1.0	1.0	1.0		a9
217	854	17.4	17.4	17.5	17.6	17.5	17.1 17.4	17.5	17.5	-1	1.0	1.0	1.0		b9
218	858	16.9	16.6	17.0	17.3	17.0	16.6 16.8	17.0	17.1	-3	1.0	1.0	1.0		b10
219	1069	17.5	17.3	17.0	17.5	17.5	17.1 17.4	17.0	17.3	+1	1.5	1.0	1.5		a9
220	718	17.5	17.5	17.5	17.8	17.5	17.2 17.5	17.5	17.6	-1	1.5	1.0	1.0		a6
221	717	17.6	17.5	17.5	17.8	17.5	17.3 17.6	17.5	17.6	0	1.5	1.0	1.5		a9
222	859	17.0	16.9	17.0	17.4	17.0	16.7 16.9	17.0	17.1	-2	1.0	1.0	1.0		a9
223	861	18.1	18.0	18.0	18.2	18.0	17.7 18.0	18.0	18.1	-1	1.0	1.0	1.0		a9
224	1070	17.6	17.4	18.0	17.9	18.0	17.4 17.7	18.0	18.0	-3	1.0	1.0	1.0		b8
225	716	17.5	17.7	17.5	17.8	17.5	17.3 17.6	17.5	17.6	0	1.0	1.0	1.0		a7
226	860	17.0	17.0	17.0	17.4	17.0	16.8 17.0	17.0	17.1	-1	1.5	1.5	1.5		a7
227	863	17.4	17.6	18.0	17.7	18.0	17.2 17.5	18.0	17.9	-4	1.0	1.0	1.0		b9
228	56	15.8	15.7	16.5	16.8	16.5	15.5 15.7	16.5	16.6	-9	3.0	4.0	3.5		b7
	1324-3103.9														
229	864	17.2	17.3	17.0	17.4	17.5	17.0 17.2	17.5	17.3	-1	2.0	1.5	1.5		a8
230	865	17.2	17.3	17.0	17.4	17.0	17.0 17.2	17.0	17.1	+2	1.0	1.0	1.0		a10
231	138	17.2	16.9	17.0	17.4	17.0	16.8 17.0	17.0	17.1	-1	2.0	2.0	2.0		a8
232	1068	17.4	17.4	17.5	17.7	17.0	17.1 17.4	17.5	17.4	0	2.0	2.0	2.0		a6
233	139	16.7	16.6	16.5	16.9	16.5	16.4 16.6	16.5	16.6	0	2.0	2.0	2.0		b7
234	1018	17.5	17.6	17.5	17.6	18.0	17.2 17.5	18.0	17.7	-2	1.0	1.5	1.0		a9
235	1071	17.8	17.6	17.5	17.8	18.0	17.4 17.7	17.5	17.8	-1	1.0	1.5	1.5		a9

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Mc Coy Universe

	Neb.	Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean	Class.
236	871	17.7 17.9	18.0 18.1 18.0	17.5 17.8	18.0	18.0 -2	1.0	1.0	1.0	a9
237	870	17.9 17.9	18.0 18.0 18.0	17.6 17.9	18.0	18.0 -1	1.0	1.0	1.0	a9
238	869	17.41 17.3	17.0 17.8 17.5	17.1 17.4	17.5	17.4 0	1.5	1.5	1.5	b9
239	868	18.0 18.0	18.0 18.0 18.0	17.7 18.0	18.0	18.0 0	0.5	1.0	0.5	a10
240	867	17.7 17.6	17.5 17.9 17.5	17.4 17.7	17.5	17.6 +1	1.0	1.0	1.0	a9
241	866	17.5 17.7	17.5 17.8 17.5	17.3 17.6	17.5	17.6 0	1.0	1.0	1.0	a9
242	715	16.2 16.0	16.0 16.7 16.5	15.9 16.7	16.0	16.4 -3	1.5	1.5	1.5	b9
243	699	17.4 17.4	17.5 17.6 17.5	17.1 17.4	17.5	17.5 -1	1.0	1.0	1.0	a8
244	698	17.9 18.1	18.0 17.9 18.0	17.7 18.0	18.0	18.0 0	1.0	1.5	1.5	a8
245	53	17.0 17.2	17.0 17.8 17.0	16.9 17.1	17.0	17.3 -2	1.5	1.0	1.5	a9
246	719	17.8 18.0	18.0 18.1 18.0	17.6 17.9	18.0	18.0 -1	1.0	0.5	0.5	a9
247	714	18.1 18.1	18.0 18.1 18.0	17.8 18.1	18.0	18.0 +1	0.5	0.5	0.5	a10
248	713	17.7 17.9	18.0 17.9 18.0	17.5 17.8	18.0	18.0 -2	1.0	1.0	1.0	a8
249	712	17.7 17.8	17.5 17.7 17.5	17.5 17.8	17.5	17.6 +2	1.0	1.0	1.0	a9
250	711	17.4 17.7	17.5 17.9 18.0	17.3 17.6	18.0	17.8 -2	1.0	1.0	1.0	a10
251	1039	17.9 17.9	17.5 17.9 18.0	17.6 17.9	17.5	17.8 +1	1.0	1.0	1.0	a9
252	710	16.9 17.2	17.0 17.5 17.0	16.8 17.0	17.0	17.3 -3	1.0	1.0	1.0	b9
253	147	17.4 17.5	17.5 17.8 17.5	17.2 17.5	17.5	17.6 -1	2.0	2.0	2.0	a8
254	872	17.8 18.0	18.0 18.0 18.0	17.6 17.9	18.0	18.0 -1	1.0	1.0	1.0	a7
255	873	16.6 16.8	17.0 17.4 17.0	16.2 16.4	17.0	17.1 -1	2.0	3.0	2.5	b6
256	148	17.3 17.1	17.0 17.6 17.0	17.0 17.2	17.0	17.2 0	1.0	1.0	1.0	b10
257	709	17.4 17.1	18.0 17.7 17.5	17.0 17.2	18.0	17.9 -5	1.0	1.0	1.0	b9
258	874	17.0 17.0	17.5 17.5 17.0	17.0 17.2	17.0	17.3 -1	1.0	1.0	1.0	a9

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Mc Coy Universe

	Neb.			Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean	Class.
259	708	17.7	17.9	18.0	17.9	18.0	17.5 17.8	18.0	18.0^{-2}	1.0	1.0	1.0	a9
260	1041	17.9	17.8	18.0	18.1	18.0	17.5 17.8	18.0	18.0^{-2}	1.0	1.0	1.0	b8
261	1046	17.9	17.9	17.5	17.7	17.5	17.6 17.9	17.5	17.6^{+3}	1.0	1.0	1.0	b8
262	651	17.1	17.1	17.5	17.7	17.0	16.9 17.1	17.5	17.4^{-3}	1.0	1.0	1.0	b9
263	650	17.5	17.5	18.0	17.9	18.0	17.2 17.5	18.0	18.0^{-5}	1.0	1.0	1.0	a10
264	648	17.4	{17.0 16.9	17.0	17.3	17.5	16.9 17.1	17.5	17.3^{-1}	1.0	1.5	1.0	b8
265	648	17.6	{17.4 17.2	18.0	17.6	17.5	17.1 17.4	18.0	17.7^{-3}	1.0	1.0	1.0	a9
266	645	18.2	18.0	18.0	18.0	18.0	17.8 18.1	18.0	18.0^{+1}	1.0	1.0	1.0	a10
267	647	17.5	17.4	17.0	17.7	17.5	17.2 17.5	17.5	17.4^{+1}	1.5	1.5	1.5	a10
268	646	17.6	17.6	17.5	17.8	18.0	17.3 17.6	17.5	17.4^{+2}	1.0	1.0	1.0	b8
269	149	17.2	17.0	17.0	17.7	17.5	16.9 17.1	17.0	17.4^{-3}	1.0	1.0	1.0	b8
270	150a	17.6	17.5	18.0	17.9	18.0	17.3 17.6	18.0	18.0^{-4}	1.0	1.0	1.0	b8
271	150b	17.3	{16.8 16.7	17.0	17.4	17.5	16.7 16.9	17.0	17.3^{-4}	1.5	1.0	1.5	b9
272	644	17.4	17.3	17.5	17.7	17.5	17.0 17.3	17.5	17.6^{-3}	1.0	1.0	1.0	b9
273	643	17.8	17.8	18.0	18.0	18.0	17.5 17.8	18.0	18.0^{-2}	1.5	1.0	1.0	a9
274	1053	17.8	17.7	17.5	17.9	17.5	17.5 17.8	17.5	17.6^{+2}	1.0	1.0	1.0	ia8
275	642	17.4	17.2	17.0	17.6	17.0	17.0 17.3	17.0	17.2^{+1}	1.0	1.5	1.0	b10
276	641	17.5	17.5	17.5	17.8	17.5	17.2 17.5	17.5	17.6^{-1}	1.0	1.0	1.0	b8
277	640	18.0	18.0	18.0	18.0	18.0	17.7 18.0	18.0	18.0^{0}	1.0	1.0	1.0	a10
278	639	17.5	17.5	17.5	17.7	17.5	17.2 17.5	17.5	17.6^{-1}	1.5	1.5	1.5	a7
279	638	17.7	17.6	17.5	17.8	17.5	17.4 17.7	17.5	17.6^{+1}	1.0	1.5	1.5	a7
280	637	17.7	17.7	18.0	17.8	17.5	17.4 17.7	17.5	17.8^{-1}	1.5	1.0	1.5	b9
281	636	17.9	17.9	18.0	17.9	18.0	17.6 17.9	18.0	18.8^{-1}	1.0	1.0	1.0	a8

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Mc Coy Cygnus

	Nb.		Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean	Class.
282	870	17.6	17.5 17.4	18.0 18.1 18.0	17.3 17.6	18.0	18.0 -4	1.0	1.0	b9
283	66a	17.5	17.5	17.5 17.9 17.5	17.2 17.5	17.5	17.6 -1	1.0	1.0	a10
284	65b	17.4	17.4	17.5 17.9 17.5	17.1 17.4	17.5	17.6 -2	1.0	1.0	a10
285	66a	17.1	16.9	17.0 17.5 17.0	16.8 17.0	17.0	17.2 -2	1.5	2.0	2.0	a7
286	66b	16.4	16.3	16.5 17.3 17.0	16.2 16.4	16.5	16.9 -5	1.5	2.0	1.5	ib7
287	878	18.2	18.0	18.0 18.0 18.0	17.8 18.1	18.0	18.0 +1	1.0	1.0	1.0	a8
288	153	17.6	18.0	18.0 18.0 18.0	17.6 17.9	18.0	18.0 -1	0.5	1.0	1.0	b10
289	154	17.5	17.8	17.5 17.8 17.5	17.3 17.6	17.5	17.6 0	1.0	1.0	1.0	a8
290	1052	17.6	17.9	18.0 18.0 18.0	17.6 17.9	18.0	18.0 -1	1.0	1.0	1.0	a8
291	879	17.5	17.7	17.5 17.9 18.0	17.3 17.6	18.0	17.8 -2	1.0	1.0	1.0	a9
292	880	17.7	17.7	17.5 17.9 17.5	17.4 17.7	17.5	17.6 +1	1.0	1.0	1.0	a9
293	49	16.4	16.1	16.0 16.4 16.5	16.0 16.2	16.0	16.3 -3	3.0	2.5	3.0	E6
294	1017	17.2	16.9	17.0 17.3 17.0	16.8 17.0	17.0	17.1 -1	1.5	1.0	1.0	b9
295	1016	17.2	16.9	17.5 17.4 17.0	16.8 17.0	17.0	17.3 -3	1.0	1.0	1.0	b9
296	1053	17.4	17.4	17.5 17.7 17.5	17.1 17.4	17.5	17.6 -2	1.5	1.0	1.5	a8
297	151	17.0	16.9	17.0 17.6 17.5	16.8 17.0	17.0	17.4 -4	1.5	1.5	1.5	b9
298	882	16.6	16.7	16.5 17.2 17.0	16.5 16.7	17.0	16.9 -2	2.0	2.0	2.0	b8
299	152	16.2	16.2	16.0 16.7 16.5	16.0 16.2	16.0	16.4 -2	1.5	1.5	1.5	a10
300	952	17.2	16.9	17.0 17.6 17.0	16.8 17.0	17.0	17.2 -2	1.0	1.0	1.0	a10
301	951	17.4	17.3	17.0 17.1 17.5	17.1 17.4	17.5	17.2 +2	1.5	1.5	1.5	a10
302	ad	15.8	15.5	16.5 17.0 16.5	15.4 15.6	16.5	16.7 -11	2.0	2.0	2.0	a10
303	33	16.0	16.0	16.0 16.3 16.5	15.8 16.0	16.0	16.3 -3	2.0	2.5	2.5	a9
304	953	17.6	17.6	17.0 17.8 17.5	17.3 17.6	17.5	17.4 +2	1.5	1.5	1.5	a10

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McCay Universal

	Neb.	Way. I	Way. II			Mean		Diam. I	Diam. II	Mean	Class.
305	884	17.0	16.9	17.0	17.1	17.0	16.7 16.9 17.0	17.0	17.0 -1	1.0	1.0	1.0	a 10
306	1056	17.2	17.2	17.5	17.3	17.5	17.0 17.3 17.5	17.5	17.4 -1	1.5	1.0	1.5	a 10
307	36	17.0	17.0	16.5	16.8	17.0	16.8 17.0 16.5	16.5	16.8 +2	1.5	1.5	1.5	a f
520	1072	16.8	16.8	17.0	17.2	17.5	16.8 16.8 17.5	17.5	17.2 +4	1.5	1.0	1.0	a 10
308	411a	17.5	17.3	17.5	17.9	17.0	17.1 17.4 17.5	17.5	17.5 -1	1.0	1.0	1.0	a f
521	1078	17.0	16.9	17.0	17.6	17.0	16.8 17.8 17.0	17.0	17.2 +2	1.0	1.0	1.0	b 9
309	411b	17.9	17.9	17.5	17.9	17.5	17.6 17.9 17.5	17.5	17.6 +3	1.5	1.0	1.5	a 10
310	410a	18.0	17.8	18.0	18.2	18.0	17.6 17.9 18.0	18.0	18.1 -2	1.0	0.5	0.5	a f
311	410b	17.8	17.8	18.0	18.0	18.0	17.5 17.8 18.0	18.0	18.0 -2	1.5	1.0	1.5	a 10
312	410c	17.6	17.5	18.0	17.9	18.0	17.2 17.5 18.0	18.0	18.0 -3	1.5	1.0	1.0	a 9
313	410d	17.7	17.4	17.5	17.6	17.5	17.3 17.6 17.5	17.5	17.5 +1	1.0	1.5	1.0	a 10
314	410e	17.5	17.8	17.5	17.7	17.5	17.5 17.8 17.5	17.5	17.6 +2	0.5	0.5	0.5	a 10
315	410f	17.5	17.4	17.0	17.3	17.0	17.1 17.4 17.0	17.0	17.1 +3	1.0	1.0	1.0	a 10
316	410g	17.7	17.5	18.0	18.0	18.0	17.3 17.6 18.0	18.0	18.0 -2	0.5	1.0	1.0	a 10
317	410h	17.6	17.6	17.5	17.6	17.0	17.3 17.6 17.0	17.0	17.4 +2	1.0	1.0	1.0	a f
318	410i	17.6	17.7	18.0	17.8	17.5	17.4 17.7 18.0	18.0	17.8 -1	1.5	1.0	1.5	a 10
319	410k	17.6	17.9	18.0	17.8	17.5	17.5 17.8 17.5	17.5	17.8 0	1.0	1.0	1.0	a 9
320	410l	17.5	17.6	17.5	17.8	17.0	17.3 17.6 17.5	17.5	17.4 +2	1.0	1.0	1.0	a 9
321	410m	16.7	16.8	16.5	16.7	16.5	16.5 16.7 16.5	16.5	16.6 +1	1.0	1.5	1.5	a b 9
322	410n	17.7	17.7	17.0	17.2	17.0	17.4 17.7 17.0	17.0	17.1 +6	1.0	1.0	1.0	a 10
323	409	16.9	17.0	16.5	16.9	16.5	16.8 17.0 16.5	16.5	16.6 +4	1.0	1.0	1.0	a 9
324	882	16.7	16.7	16.5	16.7	16.5	16.5 16.7 16.5	16.5	16.6 +1	1.0	1.0	1.0	a 10
525	1079	18.0	18.0	18.0	18.1	18.0	17.8 18.0 18.0	18.0	18.0 0	1.0	1.0	1.0	a 10
325	881	17.5	17.4	17.0	17.3	17.0	17.2 17.5 17.0	17.0	17.1 +4	1.0	1.5	1.5	b 10
526	1080	18.0	17.9	18.0	17.8	18.0	17.4 18.0 18.0	18.0	17.9 +1	1.0	1.0	1.0	a 10
326	14c	17.8	17.7	17.5	17.7	17.5	17.4 17.7 17.5	17.5	17.6 +1	1.0	1.0	1.0	a 10
327	14b	17.4	17.4	17.0	17.2	17.0	17.1 17.4 17.0	17.0	17.1 +3	1.5	1.0	1.5	a 10

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E

Mc Coy Universe

	Neb.		Mag. I			Mean			Diam I	Diam II	Mean	Class.
328	144a	17.7	17.4	17.5	17.7	17.0	17.3 17.6	17.0	17.4	1.0	1.0	1.0	a10
329	891	18.0	17.9	17.5	17.8	17.5	17.7 18.0	17.5	17.6	1.0	1.0	1.0	a10
330	893	16.8	16.6	16.5	16.7	16.5	16.5 16.7	16.5	16.6	1.5	1.0	1.5	c9
331	146b	16.8	16.5	16.5	16.8	16.0	16.4 16.6	16.5	16.4	2.0	1.5	1.5	a8
332	146a	17.3	17.2	17.0	17.2	17.0	17.0 17.3	17.0	17.1	1.5	1.5	1.5	b9
333	890	17.8	17.6	17.5	17.8	17.5	17.4 17.7	17.5	17.6	0.5	1.0	0.5	a8
334	1012	16.8	16.5	17.0	16.7	16.5	16.4 16.6	16.5	16.7	1.0	1.0	1.0	a10
335	50 1324-30491	16.2	16.0	16.0	16.4	16.0	15.9 16.1	16.0	16.1	3.5	3.5	3.5	d10
336	57 1324-30490	16.1	16.2	16.0	16.3	16.0	16.0 16.2	16.0	16.1	3.0	3.0	3.0	c10
337	892	16.8	16.7	17.0	16.8	17.0	16.5 16.7	17.0	16.9	1.0	1.0	1.0	b8
522	892b	17.3	17.0	17.0	17.1	17.0	17.0 17.2	17.0	17.0	1.0	1.0	1.0	a9
338	889	16.2	16.2	16.5	16.6	16.5	18.0 16.2	16.5	16.5	1.0	1.5	1.0	b9
523	892c	17.3	17.1	17.5	17.8	17.5	17.0 17.2	17.5	17.6	1.0	1.0	1.0	a7
339	143	17.0	16.7	17.0	17.1	17.0	16.6 16.8	17.0	17.0	1.5	1.5	1.5	a10
340	888	17.4	17.4	17.5	17.5	17.5	17.1 17.4	17.5	17.5	2.0	2.0	2.0	a10
341	1019	17.4	17.4	17.5	17.4	17.0	17.1 17.4	17.5	17.3	1.0	1.0	1.0	a10
342	37	15.8	15.5	16.0	16.2	16.0	15.4 15.6	16.0	16.1	1.5	1.5	1.5	c10
343	895	17.8	17.8	18.0	17.7	17.5	17.5 17.8	17.5	17.7	1.0	1.0	1.0	b10
344	900	17.2	17.4	17.0	17.4	17.0	17.0 17.3	17.0	17.1	1.0	1.0	1.0	a9
345	896	17.0	17.0	17.0	17.2	16.5	16.8 17.0	17.0	16.9	2.0	2.0	2.0	a10
346	897	16.9	16.8	16.5	17.0	16.5	16.6 16.8	16.5	16.7	1.5	1.5	1.5	b10
347	898	17.2	17.1	17.0	17.3	17.0	16.9 17.1	17.0	17.1	1.0	1.0	1.0	a10
348	899	18.0	18.0	18.0	18.0	18.0	17.7 18.0	18.0	18.0	1.0	1.0	1.0	a10
349	894	16.8	16.9	17.0	17.2	17.0	16.6 16.8	17.0	17.1	1.0	1.0	1.0	a9
350	893	17.0	17.3	17.0	17.1	16.5	17.0 17.2	16.5	16.9	1.0	1.0	1.0	a10

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McCay Universe

	Neb.		Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean		Class.
351	1411c	16.5 16.7	16.5 16.8 16.5	16.4 16.6	16.5	16.6	2.0	2.0	2.0		a9
352	1411d	17.6 17.5	17.5 17.6 17.5	17.2 17.5	17.5	17.5	1.0	1.0	1.0		b7
353	1073	17.2 17.5	17.5 17.4 17.0	17.4	17.5	17.3	1.0	1.0	1.0		a9
354	902	15.7 15.6	16.0 16.6 16.0	15.4 16.1	16.0	16.2	1.0	1.5	1.5		a9
355	1074	17.3 {17.0 17.7	17.5 17.7 17.0	17.2 17.5	17.0	17.4	1.0	1.0	1.0		a10
356	1411d	17.4 17.4	17.5 17.5 17.0	17.1 17.4	17.5	17.3	1.0	1.0	1.0		b10
357	1411e	17.2 17.2	17.5 17.2 17.0	17.0 17.2	17.0	17.2	1.5	1.0	1.5		a10
324	1411f	17.7 17.7	17.5 17.7 17.5	17.4 17.7	17.5	17.6	2.0	3.0	2.5		a6
358	907	17.4 17.7	17.5 17.9 17.0	17.3 17.6	17.5	17.5	1.0	1.0	1.0		a9
359	922	16.7 17.0	17.0 17.3 16.5	16.6 16.8	16.5	16.9	1.0	1.0	1.0		a9
360	1013	17.0 17.0	16.5 16.7 17.0	16.8 17.0	16.5	16.7	1.5	1.5	1.5		b8
361	921	17.3 17.4	17.5 17.4 17.0	17.0 17.3	17.0	17.3	0.5	0.5	0.5		a10
362	920	17.3 17.3	17.0 17.7 17.5	17.0 17.3	17.0	17.4	1.0	1.0	1.0		a8
363	919	17.3 17.1	17.0 17.5 17.0	17.0 17.2	17.0	17.2	1.0	1.0	1.0		a9
364	918	16.5 16.4	16.5 16.8 16.0	16.2 16.4	16.0	16.4	1.0	1.5	1.5		b9
365	924	17.7 17.8	16.0 17.9 18.0	17.4 17.7	18.0	18.0	1.0	1.0	1.0		a10
366	52	16.4 16.3	16.5 17.2 16.5	16.2 16.4	16.5	16.7	4.0	4.0	4.0	40°	b3
	1324-3033.9										
367	923	17.4 17.2	17.0 17.1 17.5	17.0 17.3	17.0	17.2	1.5	1.0	1.5		ib7
368	917	17.2 17.1	17.5 17.4 17.0	16.9 17.1	17.5	17.5	1.0	1.5	1.5		b8
369	av	16.3 16.6	16.5 16.8 17.0	16.2 16.4	17.0	16.8	1.5	1.0	1.5		b9
370	916	17.1 17.4	17.5 17.4 17.0	17.0 17.2	17.5	17.3	1.5	1.5	1.5		a9
371	134	15.3 15.5	16.0 16.2 16.0	15.2 15.4	16.0	16.1	2.0	1.5	1.5		c8
372	908	16.0 16.0	16.5 16.7 16.0	15.8 16.0	16.0	16.7	1.0	1.5	1.0		a9
373	133	~~16.2~~ {16.4 16.9	17.0 17.3 16.5	16.6 16.8	17.0	16.9	1.0	1.0	1.0		b10
374	912	17.3 17.4	17.5 17.6 17.5	17.0 17.3	17.5	17.5	1.0	1.0	1.0		a9
375	909	16.5 16.7	16.5 16.8 16.5	16.4 16.6	16.5	16.6	2.0	1.5	1.5		b8

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Mc Cay Nebula

	Neb		Mag. I	Mag. II	Mean			Diam. I	Diam. II	Mean		Class
376	910	17.5	17.3	17.5	17.2	17.5	17.1 17.4	17.5	17.4	1.0	1.0	1.0		b9
377	911	17.0	17.0	17.0	17.2	17.0	16.8 17.0	17.0	17.1	1.0	1.5	1.0		a10
378	1079	17.0	17.1	17.5	17.1	17.0	16.8 17.0	17.0	17.2	1.0	1.0	1.0		a9
379	905	17.2	17.3	16.5	16.9	17.0	17.0 17.3	16.5	16.8	1.5	1.5	1.5		a10
380	906	17.4	17.5	17.0	17.3	17.0	17.1 17.4	17.0	17.1	1.5	1.0	1.0		a9
381	904	16.9	16.9	16.5	16.7	16.5	16.7 16.9	16.5	16.6	1.5	1.5	1.5		c9
382	141a	17.6	17.8	17.0	17.3	17.0	17.4 17.7	17.0	17.1	1.0	1.5	1.0		a9
382	131d	16.0	16.0	16.5	16.6	16.5	15.8 16.0	16.5	16.5	1.0	1.0	1.0		a9
384	131c	17.4	17.6	17.5	17.6	17.5	17.2 17.5	17.0	17.5	1.0	1.0	1.0		b9
385	131b	17.3	17.4	17.5	17.4	17.0	17.0 17.3	17.0	17.3	1.5	1.5	1.5		a9
386	131e	15.8	15.8	16.0	16.2	16.0	15.6 15.8	16.0	16.1	2.0	1.5	1.5		c10
387	131a	17.2	17.2	17.0	17.3	17.5	17.0 17.2	17.0	17.3	1.5	1.5	1.5		a9
388	914	17.3	17.3	17.0	17.9	17.0	17.0 17.3	17.0	17.3	1.5	1.0	1.5		a9
389	38 1922-3120.1	15.0	15.1	~~17.5~~	16.0	16.5 16.0	14.8 15.0	16.5	16.2	5.0	5.0	5.0	160°	c5
390	913	16.8	16.8	17.0	16.9	17.0	16.6 16.8	17.0	17.0	1.0	1.0	1.0		b9
391	139	16.3	16.5	16.5	16.4	16.5	16.2 16.4	16.5	16.5	1.0	1.5	1.5		c10
392	138c	17.4	17.4	17.0	17.3	17.0	17.1 17.4	17.0	17.1	1.0	1.5	1.0		b10
393	915	17.5	17.1	17.5	17.5	17.5	17.2 17.5	17.5	17.5	1.0	1.0	1.0		a10
394	138b	17.4	17.5	17.5	17.4	17.5	17.1 17.4	17.5	17.5	1.5	1.5	1.5		a9
	~~138b~~													
395	835	16.5	16.7	16.5	16.4	16.5	16.4 16.6	16.5	16.5	1.5	2.0	2.0		b7
396	832	16.6	16.2	16.5	16.8	16.5	16.3 16.5	16.5	16.6	1.0	1.5	1.0		b10
397	833	17.4	17.6	~~16.0~~	17.3	17.0 17.0	17.2 17.2	17.0	17.1	1.0	1.5	1.5		a10
398	830	17.1	17.2	17.0	16.8	17.0	17.0 17.2	17.0	16.9	1.5	1.5	1.5		b10

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Mc Cay Universe

Neb.		Mag. I	Mag. II	Mean		Diam I	Diam II	Mean	Class.
399	P34	16.9 16.9	17.0 17.2 17.0	16.7 16.9	17.0	17.1	1.5	1.5	1.5	b9
400	P31	16.6 16.7	17.0 17.1 17.0	16.5 16.7	17.0	17.0	1.5	1.5	1.5	b9
401	138a	17.4 17.4	17.5 17.3 17.0	17.1 17.4	17.0	17.3	1.0	1.5	1.0	a9
402	P40	17.4 17.6	17.5 17.4 17.5	17.2 17.5	17.5	17.5	1.0	1.0	1.0	a9
403	P36	17.3 17.5	17.5 17.3 17.5	17.1 17.4	17.5	17.4	1.0	1.0	1.0	a9
404	P23	17.0 17.2	17.0 17.3 16.5	16.9 17.1	17.0	16.9	1.5	1.0	1.0	a10
405	P20	17.7 17.7	17.5 18.2 17.5	17.4 17.7	17.5	17.4	1.5	1.5	1.5	a9
406	P21	17.5 17.5	17.5 17.2 17.0	17.2 17.5	17.0	17.2	1.0	1.5	1.0	b9
407	P37	17.8 17.5	17.5 17.5 18.0	17.3 17.6	18.0	17.7	1.5	1.0	1.0	a10
408	P22	17.4 17.7	17.5 17.4 17.5	17.3 17.6	17.5	17.5	1.5	1.5	1.5	a10
409	P38	17.6 17.6	17.5 17.6 17.5	17.3 17.6	17.5	17.5	2.0	1.5	2.0	a9
410	P39	16.7 16.8	17.0 16.9 17.0	16.6 16.8	17.0	17.0	1.5	1.0	1.0	b10
411	P43	17.4 17.4	17.5 17.4 17.0	17.1 17.4	17.5	17.3	1.5	1.5	1.5	b10
412	P42	17.4 17.4	18.0 17.6 17.5	17.1 17.4	17.5	17.7	1.0	1.0	1.0	b10
413	P44	17.3 17.4	17.5 17.7 17.0	17.0 17.3	17.5	17.4	1.5	1.5	1.5	a9
414	P45	16.5 16.8	17.0 17.0 16.5	16.4 16.6	16.5	16.8	1.0	1.0	1.0	c10
415	P41	17.4 17.1	17.0 16.9 17.0	17.0 17.2	17.0	17.0	2.0	1.5	2.0	b10
416	P19	17.3 17.5	17.0 16.9 17.0	17.1 17.4	17.0	17.0	1.0	1.0	1.0	a9
417	57	17.2 17.3	17.0 17.2 17.0	17.0 17.2	17.0	17.1	4.0	4.0	4.0	a9
418	929	17.5 17.6	17.5 17.4 17.5	17.2 17.5	17.5	17.5	2.0	2.0	2.0	a7
419	P24	17.6 17.8	17.5 17.7 17.5	17.4 17.7	17.5	17.6	1.5	1.5	1.5	a8
420	P25	16.7 16.8	16.5 16.6 16.5	16.6 16.8	16.5	16.5	1.5	1.0	1.0	a8
421	1076	17.5 17.8	17.5 17.7 17.5	17.3 17.6	17.5	17.6	1.5	1.5	1.5	b9
422	132	17.6 17.8	17.5 17.2 17.0	17.4 17.7	17.5	17.2	1.0	1.0	1.0	b9

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McCoy Equivs

Nb.		Mag. I		Mag. II		Mean		Diam. I		Diam. II		Mean		Class.
H23	P29	17.0	17.2	17.0	17.2	17.0	16.9 17.1	17.0	17.1	0	1.5"	1.5"	1.5"	b9
H24	P26	17.2	17.0	17.5"	17.3	17.5"	16.9 17.1	17.5"	17.4	-3	1.5"	2.0	1.5"	a9
H25"	P27	16.3	16.2	16.5"	16.9	16.5"	16.0 16.3	16.5"	16.6	-3	1.5"	1.5"	1.5"	b10
H26	123	16.9	17.0	17.0	17.6	17.0	16.8 17.0	17.0	17.2	-2	2.0	2.0	2.0	a8
H27	P09b	17.0	17.3	17.5"	17.3	17.0	17.0 17.2	17.0	17.3	-1	1.5"	1.5"	1.5"	a7
H28	124	16.8	16.8	17.0	17.0	17.0	16.6 16.8	17.0	17.0	-2	2.0	2.0	2.0	b9
H29	P10	17.4	17.4	17.5"	17.6	17.5"	17.1 17.4	17.5"	17.5"	-1	2.0"	2.5"	2.5"	20°	a5"
H30	1055"	16.8	17.0	17.5	17.3	17.5"	16.7 16.9	17.5"	17.4	-3	1.5"	1.5"	1.5"	b9
H31	1054	17.0	17.2	17.5"	17.6	17.0	16.9 17.1	17.5"	17.4	-3	2.0	1.5"	1.5"	b9
H32	ar	16.9	17.0	17.0	17.2	17.0	16.7 16.9	17.0	17.1	-2	1.5"	1.5"	1.5"	b9
H33	P28	17.1	17.2	17.0	17.1	17.0	17.0 17.2	17.0	17.0	+2	1.5"	2.0	1.5"	a9
H34	930	17.0	16.8	17.0	16.9	17.0	16.7 16.9	17.0	17.0	-1	2.0	2.0	2.0	b9
H35"	120"	17.1	17.0	17.0	17.1	17.0	16.9 17.1	17.0	17.0	+1	2.0	2.0	2.0	a10
H36	39	15.0	15.1	16.0	15.8	16.0	14.8 15.0	16.0	15.9	-9	9.0	9.0	9.0	90°	c5"
H37	937	17.2	17.3	17.0	17.2	17.0	17.0 17.2	17.0	17.1	+2	1.5"	1.5"	1.5	a8
H38	as	16.2	16.1	16.5	16.6	16.5"	16.0 16.2	16.5"	16.5"	-3	2.0	2.0	2.0	c8
H39	927	16.8	16.9	17.0	17.0	17.0	16.7 16.9	17.0	17.0	-1	1.5"	1.5"	1.5"	a9
H40	928	17.4	17.2	17.0	17.2	17.0	17.1 17.4	17.0	17.1	+3	2.0	2.0	2.0	a9
H41	156a	17.6	17.6	17.5"	17.6	17.0	17.3 17.6	17.5"	17.5"	+1	1.5"	1.5"	1.5"	b10
H42	156b	17.5"	17.4	17.0	17.6	17.5"	17.2 17.5"	17.5"	17.4	+1	2.0	2.0	2.0	a10
H43	156c	17.5"	17.4	17.0	17.6	17.5"	17.1 17.4	17.0	17.4	0	1.5"	1.5"	1.5"	a9
H44	12a	17.2	17.3	17.0	17.3	17.0	17.0 17.3	17.0	17.1	+2	1.5"	1.5"	1.5"	b9
H45"	12b	16.6	16.7	16.5"	16.8	16.5"	16.4 16.6	16.5"	16.6	0	2.0	2.0	2.0	b10

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We Cap Universe

	x/2 b.			Mag. I			Mean			Diam. I		Diam. II	Mean	Class.
H46	1059	16.9	16.8	17.0	16.8	17.0	16.7 16.9	17.0		16.9	0 1.5	1.5	1.5	c8
H47	925	17.4	17.5	17.5	17.4	17.5	17.1 17.4	17.5		17.5	-1 2.0	2.0	2.0	a8
H48	926	16.3	16.1	16.5	16.6	16.5	16.0 16.2	16.5		16.5	-3 1.5	1.5	1.5	b9
H49	93f	16.5	16.5	16.5	16.9	17.0	16.3 16.5	17.0		16.8	-3 1.5	1.5	1.5	b10
H50	12fa	17.5	17.5	17.5	17.5	17.5	17.2 17.5	17.5		17.5	0 2.0	1.5	1.5	a9
H51	12fb	16.7	17.0	17.0	17.1	17.0	16.6 16.8	17.0		17.0	-2 2.0	2.0	2.0	a9
H52	4	16.3	16.5	17.0	16.7	16.5	16.2 16.4	17.0		16.7	-3 2.0	2.0	2.0	b10
H53	1077	17.4	17.6	17.5	17.6	17.5	17.2 17.5	17.5		17.5	0 2.0	1.5	2.0	a8
H54	a8	17.5	17.7	17.5	17.3	17.5	17.3 17.6	17.5		17.4	+2 1.5	1.5	1.5	a9
H55	902	17.6	17.6	17.5	17.7	17.5	17.3 17.6	17.5		17.6	0 1.5	1.5	1.5	a9
H56	901	17.3	17.4	17.5	17.3	17.0	17.0 17.3	17.0		17.3	0 1.5	1.5	1.5	b10
H57	4a	16.3	16.1	16.5	16.3	16.5	16.0 16.2	16.5		16.4	-2 2.0	2.0	2.0	c9
H58	939	17.8	17.9	17.5	17.7	17.5	17.5 17.8	17.5		17.6	+2 1.0	1.5	1.5	a8
H59	940	16.8	17.0	17.0	16.8	17.0	16.7 16.9	17.0		16.9	0 1.0	1.0	1.0	a9
H60	941	17.3	17.5	17.5	17.5	17.0	17.1 17.4	17.5		17.3	+1 2.0	1.5	2.0	b9
H61	35a	16.9	16.8	17.0	16.9	17.0	16.7 16.9	17.0		17.0	-1 1.5	1.5	1.5	b9
H62	35b	16.5	16.6	17.0	16.8	16.5	16.4 16.6	16.5		16.8	-2 1.5	1.5	1.5	b9
H63	35c	16.2	16.5	17.0	16.7	16.5	16.2 16.4	17.0		16.7	-3 1.0	1.0	1.0	b9
H64	35d	14.5	14.7	16.0	15.3	15.5	14.4 14.6	15.5		15.6	-10 4.0	3.5	3.5	c10
527	1081	16.5	16.7	16.5	16.7	16.5	16.4 16.6	16.5		16.6	0 2.0	2.0	2.0	a10
H65	142	16.2	16.0	17.0	16.4	16.5	15.9 16.1	17.0		16.6	-5 1.5	1.5	1.5	f10
H66	91a	17.5	17.7	17.5	17.5	17.5	17.3 17.6	17.0		17.3	+3 1.5	1.5	1.5	a8
H67	943	17.4	17.4	17.5	17.4	17.0	17.1 17.4	17.5		17.3	+1 2.0	2.0	2.0	b8
H68	91b	17.3	17.4	17.5	17.3	17.5	17.0 17.3	17.5		17.4	-1 2.0	1.5	2.0	a9
H69	91c	17.1	17.3	17.5	17.3	17.0	17.0 17.2	17.0		17.3	-1 2.0	2.0	2.0	a10

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McCoy Expedition

Neb.		Mag. I		Mag. II		Means		Diam. I		Diam. II		Mean	Class
H70	914	17.3	17.3	17.5	17.3	17.0	17.2 17.0	17.5	17.3	0	1.0	1.0	a10
H71	946	17.4	17.4	17.5	17.2	17.0	17.4 17.1	17.0	17.2	+2	2.0	2.0	a9
H72	91C	17.4	17.5	17.5	17.5	17.0	17.4 17.1	17.5	17.3	+1	1.5	1.5	b10
H73	947	17.3	17.2	17.5	17.0	17.0	17.3 17.0	17.0	17.2	+1	1.5	1.5	b9
H74	942	16.9	17.1	17.0	16.9	17.0	17.0 16.8	17.0	17.0	0	1.5	1.5	b10
H75	94	15.4	15.4	16.5	16.3	16.5	15.4 15.2	16.5	16.4	-10	3.0	3.5	a5
H76	145	15.9	16.0	16.5	16.2	17.0	16.0 15.8	16.5	16.2	-2	1.5	1.0	c10
H77	886	17.3	17.5	17.5	17.3	17.0	17.4 17.1	17.5	17.4	0	2.5	2.0	b9
H78	144	17.0	17.1	17.0	16.7	17.0	17.1 16.9	17.5	16.7	+4	2.0	2.0	b10
H79	94F	17.3	17.4	17.5	17.3	17.5	17.4 17.1	17.0	17.4	0	1.5	1.5	a7
HF0	949	15.9	16.0	16.5	16.4	17.0	15.9 15.7	16.5	16.6	-7	1.5	1.5	b10
HF1	aw	17.6	17.5	17.0	17.5	17.0	17.6 17.3	17.0	17.0	+1	1.0	1.5	a10
HF2	ww	16.4	16.7	17.0	16.8	17.0	16.6 16.4	17.0	16.9	-3	1.5	1.5	b10
HF3	95D	16.8	16.8	17.0	16.9	17.0	16.8 16.6	17.0	17.0	-2	1.5	1.5	a6
HF4	92	16.8	17.1	17.5	17.0	17.0	17.0 16.8	17.0	17.2	-2	1.5	1.5	a10
HF5	410	16.9	16.9	17.0	16.8	17.0	16.9 16.8	17.0	16.9	0	1.5	1.5	b9
HF6	7	17.0	17.0	17.5	17.4	17.5	17.0 16.8	17.5	17.0	-3	3.0	3.0	a9
HF7	ac	16.8	16.8	17.0	16.9	17.0	16.8 16.6	17.0	17.0	-2	2.0	2.0	b8
HF8	940	17.3	17.0	17.0	17.2	17.0	17.2 17.0	17.0	17.2	0	2.0	1.5	b9
529	1064	17.6	17.5	17.5	17.4	17.0	17.5 17.2	17.5	17.5	0	2.0	2.0	a8
HF9	90	15.3	15.6	16.0	16.2	16.5	15.4 15.2	16.5	16.4	-10	2.0	2.0	b10
H90	80	15.4	15.3	16.5	16.1	16.5	15.4 15.2	16.5	16.4	-10	2.0	2.5	b9
H91	89	17.1	17.0	17.5	17.2	17.5	17.1 16.9	17.5	17.4	-2	1.5	1.5	a9
H92	89a			17.5	17.2	17.5		17.5	19.4		2.0	2.0	a9

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two stars

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Nob.		Mag. I		Mag. II		Mean		Chan. I		Chan. II		Mean	Class.
H93	944	17.0	17.0	17.5	17.3	17.0	16.8 17.0	17.0	17.3	-2 1.5	1.5	1.5	a10
H94	f7	16.3	16.3	17.5	17.0	17.0	16.0 16.3	17.5	17.2	-9 2.0	2.0	2.0	a9
H95	m	15.2	14.9	wrong object measured 17.0	16.3	16.5	14.8 15.0	16.5	16.6	-16 2.0	2.0	2.0	c8
H96	1062	16.3	16.0	16.5	16.7	17.0	16.0 16.2	16.5	16.7	-5 2.0	2.0	2.0	b7
H97	998	17.4	17.5	17.5	17.6	18.0	17.1 17.4	18.0	17.7	-3 2.0	1.5	1.5	a8
H98	a	16.7	16.8	17.0	17.2	17.5	16.6 16.8	17.0	17.2	-4 3.0	3.0	3.0	b7
H99	f	17.3	17.2	17.5	17.2	17.5	17.0 17.3	17.5	17.4	-1 2.0	2.0	2.0	c7
500	9	16.4	16.7	17.0	16.8	17.5	16.4 16.6	17.5	17.1	-5 2.0	2.0	2.0	b9
501	10	16.2	15.9	17.0	16.8	17.5	15.8 16.0	17.0	17.1	-11 2.0	3.0	2.5	b9
502	999			18.0	17.7	18.0		18.0	17.9	probably 2 stars			
503	f4			17.0	17.0	17.0		17.0	17.0	probably 2 stars touching a third			
504	1063	16.8	16.8	17.5	17.3	17.5	16.6 16.8	17.5	17.4	-6 2.0	2.0	2.0	a6
505	f3	15.9	15.8	16.5	16.8	17.0	15.6 15.8	17.0	16.8	-10 2.0	2.0	2.0	c8
506	866	15.6	15.8	16.5	16.4	17.0	15.5 15.7	16.5	16.6	-9 2.0	2.0	2.0	b9
507	866	16.5	16.8	17.5	17.0	17.5	16.4 16.6	17.5	17.3	-1 2.0	2.0	2.0	b9
508	1061	17.3	17.4	17.5	17.6	17.5	17.0 17.3	17.5	17.5	-2 2.0	2.0	2.0	a8
509	8fc	18.0	17.9	18.0	18.0	18.0	17.7 18.0	18.0	18.0	0 1.0	2.0	1.5	a8
510	8fd	18.1	18.0	18.0	18.1	18.0	17.8 18.1	18.0	18.0	+1 0.5	0.5	0.5	a9
511	8fb	16.9	16.9	17.5	17.4	17.5	16.7 16.9	17.5	17.5	-6 2.0	2.0	2.0	a9
512	8fa	17.0	17.0	17.5	17.4	17.5	16.8 17.0	17.5	17.5	-5 1.5	1.5	1.5	a10
513	1060	17.3	17.2	17.5	17.5	17.5	17.0 17.2	17.5	17.5	-3 2.0	2.0	2.0	a8
514	f2	17.2	17.0	18.0	17.4	17.5	16.9 17.1	17.5	17.6	-5 2.5	2.0	2.0	a8
515	93	17.0	16.9	17.5	17.3	17.5	16.7 16.9	17.5	17.4	-5 2.0	2.0	2.0	b8

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Mc Cey Universe

N.G.C.		Mag. I	Mag. II	Mean		Diam. I	Diam. II	Mean	Class.
516	80 A	16.3	16.3	17.0	17.2 17.0	16.3 16.0	17.0	17.1 -8	2.5" 2.5" 2.5"	cA
517	80 a	17.3	17.5	17.5"	17.6 17.5"	17.4 17.1	17.5"	17.5" -1	1.5" 1.5" 1.5"	a9
(529)										

Nebulae underlined in green are nebulae outside of the group. Shoe number 167 leaving 359 in the group.

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