F

Plate Grading by H.S.

α	alpha
β	beta
γ	gamma
δ	delta
ε	epsilon

Plate Grading by S.F.M.

a, b, c+, c, c+

H.S.

18783 new nebulae
.85 (15% correction)
15965.55

Also 6 new unnumbered plates –
approximately 300 per plate = 1800 more.

S.F.M.

263 plates

THO
IN RENEWI
ONLY NECESSA
YOU CAN T
No. 157

Plate Grading by H.S.

α alpha
β beta
γ gamma
δ delta
ε epsilon

Plate Grading by S.F.M.

a, b, c+, c, c+

THORP & MARTIN
COMPANY
STATIONERS
66 FRANKLIN STREET
BOSTON
IN RENEWING THE ORDER FOR THIS BOOK IT IS ONLY NECESSARY TO QUOTE THE NUMBER BELOW. YOU CAN TELEPHONE THE ORDER.
No. 15757 PR.

1932phae.proj.234S

46

Plates nebular counted

12 949
16 147
16 145
16 213
15 974

C. K. S.

1932phae.proj.234GM

✓ at bottom means plate is entered in neb. survey catalogue – J.M.

✓ or ✓ at top " " has been star-counted and is on plate mag. limit catalogue – J.M.

] brtr. than

[fainter than

> grtr. than

< less than

14.0 dividing limit ✓

cl. = r rich

m medium

p poor or a

Sr. = a, b, c } S.F.M.

α, β, γ, δ, ε } N.S.

Sylvia, will you please check [do over that is] the gal. lat. & long. for:

314 +15
√ 204 −22 14580 6 0 −30

√ 220 +15 14431 9 0 −25

√ 198 −19 14578 6 0 −25

√ 199 −12.5 14555 6 30 −22.5

√ 200 −16 14564 6 20 −20

Please do them independently of earlier conversions

thanks JM

✓ at bottom means p catalogue - J.M.
✓ or ✓ at top " d is on logue - J.M.

Carte
17.0 +39.5 M6
14 1350 . . O7, 64, 269
1299 . , " " 125, 278.

] brtr. than
[fainter than
> grtr. than
< less than

Cl. = r rich
m medium
p poor or doubtful

Ser. = a } S.F.M.
b
c

α } N.S.
β
γ
δ
ε

Nebula Count
per square degree - S. L. Mussells

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4607	4	3346		5914		10231		12546		5376	
4726		3635	11	5656	18	12037	25	14699	32	5355	39
4740		3690		5655		12043		14551		5349	
4881		3810		5653		12087		14586		5202	
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12790	52	14580	60	14892	68	14890	76	15837	84	15289	92
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15181		15983									
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15841	103	16241	115		127		139		151		163
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See p. 6

Square	{0 20 -67.5 273 -50 Q = 5 g = b ✓ A. 7033 β 2nd	1st count		{16 29 +17.5 2 +37 Q = 3 ; g = b A. 7372 δ	~~{21 8 +17.5 36 -22 9 = 9 = A.7373~~	13 48 -22.3 290 +37 2 = 4 b = c ✓ A.3164 β
1	1	1		1	1	2
2	16	16		2	2	0
3	+2 7	5		0	1	2
4	3	3		0	1	1
5	4	4		0	2	3
6	14	14		3	5	1
7	3	3		2	5	2
8	3	3		2	0[1]] 14.0 omit in means	2
9	4	4		3	6	0
10	15	15		3	6	4
11	2	2		6	1	0
12	4	4		2	2	0
13	3	3		2	2	0
14	4	4		1	5	0
15	-1 7	8	(1 A 6604)	1	2	1
16	10	10		3	1	1
17	+1 10	9		2	0	0
18	8	8		0	1	7
19	15	15		3	2	4
20	7	7		2	2	9
21	5	5		1	1	1
22	17	17 cl	p	4	2	1
23	8	8		3	1	1
24	7	7	(1 A 6604)	3	2	4
25	15	15 cl		4	1	6
	None] 14.0. Average 16.0-17.0			None] 14.0 Vary from 15.0-17.5	15.0 - 17.0 Plate read north up	14.0 - 17.0

O	16	100	6.2
I	9	92	10.2
A	25	192	7.7

+2
-1
+1
+2 with 2nd count

O	16	31	1.9
I	9	22	2.4
A	25	53	2.1

O	16	19	1.2
I	9	33	3.7
A	25	52	2.1

Square	18 0 -77.5' 284 -24 2 = 3 b = c A. 4607 δ	17 2 -77.5' 285 -28 2 = 3 b = c A. 4726 ε	20 0 -77.5' 284 -32 ✓ g = 3i b = c A. 4740 β	4 0 -77.5 258 -36 g = 3i b = b ✓ A. 4881 γ
1	0	1	0	0
2	0 (1 A4595)	1	0	0
3	0	0	0	1
4	1	0	0	0
5	0	0	0	0
6	0	0	1	1
7	0	0	3	1
8	1	0	1	0
9	1	0	0	2
10	1	0	0	1
11	0	0	0	0
12	0	0	0	0
13	1	0	0	0
14	0	0	0	0
15	0	0	(2) (2 A4721)	0
16	0	0	(1) 1	0
17	0	0	0	3
18	2	0	1	2
19	0	0	0	2
20	4	4	0	1
21	1	0	0	4
22	1	0	0	1
23	2	0	0	0
24	0	0	0	1
25	1	0	2	3
	14.5 - 16.5	15.0 - 16.0	14.5 - 16.0	15.0 - 17.0
	O 16 | 6 0.4 I 9 | 11 1.2 A 25 | 17 0.7 ✓	O 16 | 2 .1 I 9 | 4 .4 A 25 | 6 .2 ✓	O 16 | 8 .5 I 9 | 3 .3 A 25 | 11 .4 ✓	Fewer neb. in this region on A.14282 δ 16 | 6 .4 I 9 | 17 1.9 A ✓25 | 23 0.9

1932phae.proj.234BM

Square	18 0 -82.5 27 7 -24 g = 3 i b = c A. 5442 ε	16 10 -42.5 30 6 +5 g = 4 b = c A. 6420 ε	21 7 +22.6 40 -18 g = 3 i b = c A. 6572 δ	13 30 -27.5 283 +34 g = 4 b = b ✓ A. 6714 γ
1	0	0	0	Covered by A. 12415 (McCoy) down to south half of squares 15, 24, 25, 20, 7
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	1	
6	0	0	0	
7	0	0	2 (1? no check plate)	4 (½ sq.)
8	0	0	2 (" ")	3
9	0	0	2	5
10	0	0	1	5 + (1] 14.0)
11	0	0	0	5
12	0	0	0	9
13	3 (I.C.)	0	1 (" ")	7
14	0	0	0	25
15	0	0	0	25 (½ sq.)
16	0	0	0	Covered by McCoy A 12415 ✓
17	0	0	0	
18	0	0	0	
19	0	0	0	
20	0	0	0	4 (½ sq.)
21	0	0	1 (" ")	6
22	0	1 (I.C.?)	0	10
23	0	0	0	13
24	0	0	0	11 (½ sq.)
25	0	0	0	11 (½ sq.)
	date no good. Double images	lt. patches of dark nebulosity	14.5 - 16.5	14.5 - 17.5
	0 16 | 3 .2 I 9 | 0 0.0 A 25 | 3 ✓ .1	0 16 | 0 0 I 9 | 1 .1 A 25 | 1 ✓ 0	16 | 6 0.4 9 | 0 0.0 25 | 6 ✓ 0.2	7 | 59 8.4 3 | 29 9.7 10 | 88 8.8 ✓ + 1314.8

Square	21 32 −16.0 7 −45 g = 4 b = b √ A. 6761 β	22 20 −62.5 294 −48 √ g = 4 b = b A. 6810 α	21 50 −62.5 297 −46 √ g = 5 b = b A. 6994 β	21 8 +17.3 36 −22 √ g = 5 b = b A. 7373 α
1	1	2	7 +2]14.0 (N.G.C.)	6 +1]14.0
2	4	1	3	5
3	7	2	2	2
4	5	0	3 +1]14.0 (N.G.C.)	8
5	2	1	4	2
6	3	1	4	4
7	4	0	11	2
8	3	2	5	1
9	1	0	0	0
10	0	1	9 } Cl. m.	2
11	2	4	12	1
12	0	4	7 +1]14.0 (N.G.C.)	2
13	0	0	1	2
14	6	0	6	5
15	9	0	10	5
16	6	0	7	0
17	5	0	11	1
18	10	3	6 } Cl. p.	1
19	8	0	9	3
20	7	2	12	2
21	7	7	9 }	0
22	6	10 Cl. p	8 }	1
23	3	1	18 } Cl. r	2
24	8 Cl. p	3	18 }	0
25	3	3	9	2
	15.0 – 17.0	14.0 – 17.0	14.5 – 17.5	14.5 – 17.5
	O 16 | 53 3.4	O 16 | 18 1.1	O 16 | 91 5.7	O 16 | 47 2.9
	I 9 | 57 6.3	I 9 | 29 3.2	I 9 | 100 11.1	I 9 | 12 1.3
	A 25 | 110 4.4	A 25 | 47 1.9	A 25 | 191 7.6	A 25 | 59 2.4
			+ 4]14.0	+ 1]14.0

16 9 +17.6	21 29 +17.3	7 11 −52.5	22 50 −62.5	23 20 −62.5
0 +40	39 −24	305 −10	290 −51	285 −53
g = 4 b = b	✓ g = 4 b = a	g = 4 b = b	g = 5 b = b	g = 3 b = b
A 7374 δ	A 7375 β	A 7418 β	✓ A 7427 ~~δ~~ γ	✓ A 7499 γ
5	1 (2) (1 A 7375)	0	1	0 (5 A 7427)
5	1	0	1	3 1
7	3	0	4	0 1
10	0	0	2	3
4	0	0	2 (1 A 7499)	2
1 (1 A 7372)	0	0	3 1	8
3 (1)	0	1	2 1	2
1	2	0	4 3	4 (1 A 13126)
3	0	0	0	2
8	0	0	2	2
12	0	1	0	4
8	0	0	0	0
1	0	0	0	0
67 } Cl r	1	2	4 (5 A 6810)	4 2
31 } (runs off limits)	0 (1)	0	0	1 4
20	2	0	2	3 1
7	1	0	0	2 2
3	1	0	3	3 1
6	5	0	5	5
4	0	0	1 1	2
7	0	1	6 1	5
2	1	1	8	1
6	1	1	4	3 1 (J14.0)
6	0	0	2 (3)	6 1 (+1 J14.0)
2	0	0	6	8
15.0 − 17.5	16.0 − 17.5	16.5 − 17.0	15.0 − 17.5	14.5 − 17.0
O 16 188 11.8	O 16 12 0.8	O 16 4 .2	O 16 38 2.4	O 16 51 3.2
I 9 43 4.7	I 9 9 1.0	I 9 3 .3	I 9 40 4.4	I 9 40 4.4
A 25 231 9.2	A 25 21 0.8	A 25 7 .3	A 25 78 3.1	A 25 91 3.6
✓	✓	✓	✓	✓
				+2 J14.0

Square	22 21 -57.5 300 -5.2 √ 9 = 3 b = b A. 7500 β	17 30 -52.5 307 -13 9 = 5 b = a A. 8956 α	5 26 -62.0 238 -33 9 = ? b = c A. 12295 ε	14 30 -27.5 298 +29 9 = 4 b = b A. 13037 β
1	2 (2 A7498)	0	1 (1 A8570)	2 ~~(1 ?)~~
2	3 2	1 (?)	0 +1.]14.0 (5 A2190)	8 ~~(1 ?)~~
3	10	0	2 9	0 (1 A13029)
4	9	0	0 5	2
5	0	0	1 10	1
6	2	0	2 1	0
7	4	0	1	0
8	4	0	0	4
9	5	0	0	1
10	4	2 (?)	0	10 Cl. m
11	17 } Cl m	0	0 1	3
12	17	3 (1 ?)	0	2 (3) (1 A13036)
13	3 2	1 (?)	0	2
14	4 7	1	0 4	0
15	5 11	0	0 8	1
16	4 5	0	1 ~~(?)~~ 1	2
17	6	2 (?)	2 1	1
18	8	1 (?)	2 4	1 ~~(?)~~
19	8	1	1	5
20	13	0	0 2	3
21	16 Cl p	1 (?)	0 1	1
22	19	0	0 2	2
23	5	0	2 10	3
24	13 } Cl m 1	1	1 8	2
25	24	0	0 7	4
	15.0-17.5	16.0-17.0	14.5-17.0	14.0-17.5
O	16 | 122 7.5	16 3 0.2	16 53 3.3	16 45 2.8
I	9 | 113 12.6	9 2 0.2	9 35 3.9	9 22 2.4
A	25 | 235 9.4	25 5 0.2	25 88 3.5	25 67 2.7
	√	√	√ +1.]14.0	√

Square	✓ 0 0 -60 5.8 279 -63 9 = 4 b = b A.13128 α	✓ 6 35 -62.6 279 -25 9 = ? b = b A.14109 α	16 53 -28.2 322 +8 9 = 4 b = af A.14194 α	17 22 -5.5 346 +15.5 9 = 3 b = c A.14211 γ
1	4	6	0	0
2	1	13	0	3
3	5 ~~(1?)~~	6	0	1
4	1	10 +1]14.0	0	0
5	2	3	0	0
6	1	6	0	0
7	7	6 ~~(1?)~~	0	2
8	0	6 ~~(1?)~~	0	2
9	3	2	1 (?)	0
10	15	2	0	0
11	2	3	0	0
12	1	6	0	1
13	0	1	0	1
14	1 ~~(?)~~	3	0	0
15	0	3	0	0
16	6	7	1	1
17	5	17 ~~1(?)~~	0	1
18	5	7	0	0
19	1	4	0	1
20	4	8 (1?)	0	0
21	3	6 ~~(1?)~~	1(?)	0
22	1	12 ~~(2?)~~	3 (1?)	3
23	0	8	0	0
24	1	10	0	0
25	6 ~~(2?)~~	7	0	0
	10.5 - 17.5	15.0 - 17.0	16.5 - 17.0	16.0 - 17.0
	16 49 3.1		16 1 0.1	0 16 | 11 0.7
	9 26 2.9	16 | 83 5.1	9 2 0.2	I 9 | 5 0.6
	25 75 3.0	-9 | 79 8.8	25 3 0.1	A 25 | 16 0.6
	✓	25 | 162 6.5 ✓ +1]14.0	✓	✓

Square	19 14 −20.0 347 −17 g = 4 b = a A.14257 β	21 52 −40 330 −54 g = 4 b = c ✓ A.2755 β	3 31 −52.5 230 −50 g = 4 b = c ✓ A.3339 γ	3 24 −30.3 228 −52 g = 4 b = c ✓ A.3346 δ
1	0	0	26 } Cl. m	6
2	4 (1?)	5	19	18 (1 A3339 +1]14.0)
3	4 (..)	2	22	25 4 +3]14.0
4	0	4	32 } with Sq. 19 = Cl. r	102 } Cl. r 5
5	6	0	29	3 3
6	0	0	29	4 1 +1]14.0
7	0	0	26 } Cl. r	4 1
8	0	1	26	5 1
9	0	3	11	5
10	0	4	7	6 +1]14.0
11	2 (1?)	2	} covered by A.3346	4
12	0	2		6
13	3 (..)	3		6
14	0	4		4
15	0	5		19 2
16	1 (?)	1	17	17
17	1 (?)	1	Cl. m { 33 +1]14.0	26 +1]14.0
18	1	3	21	24 1 +3]14.0
19	3 (2?)	2	31	21 3 +1]14.0
20	1	1	17	7 1 +4]14.0
21	2 (1?)	2	16	11
22	1	5	} covered by A.3346	7
23	3	3		12 +1]14.0
24	2 (?)	3		6 1
25	2 (1?)	5		10 2 +1]14.0
	16.0–17.0	15.0–17.5	14.5–18.0	14.5–18.0
	16 14 .9 9 16 1.8 25 30 1.2	O 16 36 2.2 I 9 25 2.8 A 25 61 2.4	O 11 244 22.2 I 5 123 24.6 A 16 367 22.9 +1]14.0	O 16 252 15.8 I 9 132 14.7 A 25 384 15.4 +17]14.0

Square	16 13 -20.8 322 +19 g=4 b=b A.3635 β	16 9 -22.5 321 +18 g=3 b=b A.3690 γ	18 51 -37.5 327 -18 g=4 b=b A.3810 β	3 10 -52.8 233 -53 g=4 b=c ✓ A.4179 γ
1	0	0	8	7
2	0	1 (?)	1	13
3	0	0	0	8 (+1] 14.0 A 3339)
4	0	0	0	4 13 +2] 14.0
5	0	0	0	3 3
6	0	0	1	9 {1 A3346 {21 +2] 14.0
7	0	0	0	10 {12 +2] 14.0 {1 +1] 14.0
8	0	0	0	8 {1 {2 +2] 14.0
9	0	0	1	12 {3 { +1] 14.0
10	1	0	1	3 6
11	0	0 1 A3635	1	2 {9 {1
12	0	0	0	4
13	0	0	0	1
14	0	0	1	13
15	0	0	1	14
16	0	0	0	19
17	2	0	0	15 +1] 14.0
18	0	0	0	8 5
19	0	0	0	5 1]
20	0	0	0	2 {13 +1] 14.0
21	0	0	1	12 {6 {1
22	0	0	0	4 7
23	0	0 1	0	5
24	1	0 1	2	12 1
25	1	2	1	1 5 1
	16.0 - 17.0	16.0 - 16.5	15.5 - 17.0	15.0 - 17.0
	Much dark nebulos.	Much dark neb.	Dark neb. + nebulos.	A. 3339 & 3346 cover most of squares 4-11, 18-22, 25

	A.3635		
O	16	1	0.1
I	9	4	0.4
A	25	5	0.2 ✓

A.3690		
16	2	0.1
9	4	0.4
25	6	0.2 ✓

	A.3810		
O	16	10	0.6
I	9	4	0.4
A	25	14	0.6 ✓

	A.4179		
O	16	203	12.7
I	9	119	13.2 ✓
A	25	322	12.9 +13] 14.0

	3 31 -47.6 233 -52 4 c ✓ A 4181 γ		4 10 -52.6 228 -45 4 b ✓ A. 4183 α 2nd	1st		15 40 -67.7 286 -12 5 a A. 4534 γ	16 4 -77.8 281 -17 4 b A. 4537 γ	
Square								
1	1	(+2]14.0 A3346)	25	25		1	0	
2	3	+1]14.0	21	21	+1]14.0	0	0	
3	8	1 +1]14.0	30	30	} with 18 = Cl. m	0	0	
4	3	1	8	8		0	0	
5	2	+1]14.0	21	21	} Cl. m	0	0	
6	5		22	22		0	1	
7	7		-1 9	10		0	1	
8	7		19	19	} Cl. p	0	2	
9	5		7	7		0	0	
10	4		13	13	+1]14.0	0	0	
11	7		3	3		0	0	
12	1		2	2		1	0	
13	0		1	1		0	0	+1]14.0
14	2		13	13		0	0	
15	5		+1 48	47	Cl. +	0	0	
16	3	+1]14.0	+2 36	34		0	0	
17	1	2 +1]14.0	32	32		0	0	
18	4	1	32	32	} with 25 = Cl. m	0	0	
19	3		19	19		0	0	
20	6	+1]14.0	16	16		0	0	
21	1		22	22		0	1	
22	5		13	13		1	0	
23	5		13	13		1	0	
24	3		14	14	+1]14.0	0	1	
25	5		15	15		0	0	

15.0 - 17.0	14.0 - 17.5	15.5 - 16.5	14.5 - 17.0
O 16 | 65 4.1	+1 O 16 | 278 17.3	O 16 | 2 0.1	O 16 | 4 0.2
I 9 | 36 4.0	+2 -1 I 9 | 176 19.6 +2	I 9 | 2 0.2	I 9 | 2 0.2
A 25 | 101 4.0	A 25 | 454 18.2	A 25 | 4 0.2	A 25 | 6 0.2
+: 8]14.0 ✓	+3]14.0 ✓	✓	+1]14.0 ✓

Square	16 20 -67.5 289 -13 4 b A.4539 γ	✓ 17 12 -77.8 283 -22 5 c A.4595 γ	17 52 -67.5 294 -22 3i c A.4598 δ	✓ 21 0 -67.8 294 -39 5 c A.4606 α	
1	0	0	1	0 +1]14.0	
2	1	0	0	0	
3	0	3	0	0	
4	1	0	1	0	
5	1.	0	0	0	
6	0	0	0	1	
7	0	0	0	0	
8	0	0	0	1	
9	0	0	0	0	
10	0	0	0	1	
11	0	0	2	1	
12	0	0	0	0	1 A.1742
13	0	0	0	2	
14	0	1	0	0	
15	1	1	1	2	
16	1	1	0	1	+1]14.0
17	0	0	0	0	1
18	0	0	1	0	
19	0	1	0	1	
20	0	0	1	1	
21	1	0	0	3	
22	0	1	1	1	
23	0	0	0	0	
24	0	4	0	0	+1]14.0
25	0	0	0	1	
	14.5-16.5	15.0-17.0	14.0-17.0	14.5-17.0	
	O 16 | 5 0.3	O 16 | 6 0.4	O 16 | 5 0.3	O 16 | 10 0.6	
	I 9 | 1 0.1	I 9 | 6 0.7	I 9 | 3 0.3	I 9 | 8 0.9	
	A 25 | 6 0.2	A 25 | 12 0.5	A 25 | 8 0.3	A 25 | 18 0.7	
	✓	✓	✓	+3]14.0	✓

Square	18 22 -72.8 289 -25 5 c ✓ A. 4609 β	19 290° -72.5 ~~300~~ -27 3 c ✓ A. 4724 γ	19 0 -67.5 296 -27 5 b ✓ A. 4728 B	19 40 -67.5 296 -32 5 b ✓ A. 4733 β
1	0	0 1 A 4609	1	0
2	0	0	3	0
3	0	0	0	2
4	1	0	0	1
5	0	0	0	1
6	0	0	0	0
7	0	0	2	0
8	0	1	1	0 1 A 4742
9	0	0	1	0
10	0	1	1	0 (1 +1] 14.0 A 5530)
11	0	0	2	0
12	0 2 A 4599	0	3	1
13	0	0	0 +1] 14.0 (N.B.C.)	1
14	0	0	0	1
15	0	2	0	2
16	1	1	0	1
17	0	0	4	0
18	0	0	0 +1] 14.0	1
19	1	0	0	1
20	2	2	1	0
21	0	1	1	0
22	5 1	0	0	0
23	1	0	3	0
24	1 1	0	1	0
25	0	2	0	1
	14.0 17.0	15.0 - 17.5	14.0 - 17.0	14.0 - 17.5
	O 16 | 4 0.2	O 16 | 6 0.4	O 16 | 14 0.9	O 16 | 12 0.8
	I 9 | 12 1.3	I 9 | 5 0.6	I 9 | 10 1.1	I 9 | 3 0.3
	A 25 | 16 0.6	A 25 | 11 0.4	A 25 | 24 1.0	A 25 | 15 0.6
	✓	✓	+2] 14.0 ✓	✓ +1] 14.0

	19 40 -72.8 290 -31 3i c	20 22 -67.5 295 -36 4 b	20 50 -62.5 300 ~~-40~~ 39 4 c	14 20 -62.5 281 -2 4 b
Square	✓ A.4738 γ	✓ A.4742 γ	A.5371 δ	A.5373 γ
1	0	1	0	1
2	0	0	0	0
3	0	0	0	0
4	0	1 +1] 14.0	1	0
5	1	1 +1] 14.0	1 (1 A6085)	0
6	0	1	0	0
7	1	0	0	0
8	9 +1] 14.0 } cl. m	1	0	0
9	7 +1] 14.0	2	0	0
10	4 } clip	2	0	0
11	3	0	0	0
12	2	2	0	0
13	0	1	0	0
14	2	1	0	0
15	1	2	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	1	0
20	0	3	0	0
21	1	0	0	0
22	0	0	0	0
23	0	2 (+1] 14.0 A4733)	0	0
24.	0	3	0	0
25	1	0	0	0
	14.0-17.5	14.0 - 17.0	15.5-17.0	16.0
	O 16 | 30 1.9	O 16 | 15 0.9	O 16 | 3 0.2	O 16 | 1 0.1
	I 9 | 2 0.2	I 9 | 8 0.9	I 9 | 1 0.1	I 9 | 0 0.0
	A 25 | 32 1.3	A 25 | 23 0.9	A 25 | 4 0.2	A 25 | 1 0.0
	+2] 14.0 ✓	+3] 14.0 ✓		✓

Square	16 20 −62.5 292 −11 5 a A.5451 B	16 50 −62.5 295 −13 4 b A.5453 δ	17 22 −63.0 296 −17 5 a A.5455 α	17 50 −62.5 299 −19 5 b A.5458 β
1	0	0	0	0
2	0 1	0	1	0 (A5455 +1]14.0)
3	0 1	0	0	0
4	0 2	0	0	0 (A5459 +1]14.0)
5	0 1	0	1	1 +1]14.0
6	0	0	0	1 1
7	0	1	1	0
8	(0) (1	2	0	0 1 A5408
9	0	2	1	0
10	0 +1]14.0	0	0	0
11	0 1	1	3	1
12	0 1 +1]14.0	1	1	1
13	0 1	1	0	2
14	0	0	1	0 A5455 +1]14.0
15	0	0	1	0
16	0	0	0	1 A5455 +1]14.0
17	0	0	0	0
18	0	0	0	2
19	0	0	1	0
20	0	0 1 A5377	0	0 1
21	0	1 1 A5377	2	0
22	0	0	2	0
23	0	2	0	0
24	0	1	0	0
25	1	1 {1 A5477 1 A5451	0	1 1
	15.0 − 17.0	15.0 − 17.0	15.0 − 17.0	15.0 − 17.0
	O 16 4 0.2	O 16 8 0.5	16 10 0.6	16 9 0.6
	I 9 1 0.1	I 9 9 1.0	9 5 0.6	9 5 0.6
	A 25 5 0.2	A 25 17 0.7	25 15 0.6	25 14 0.6
	+2]14.0 ✓	✓	✓	✓ +5]14.0

	18 50 -62.8 301 -25 4 b	19 20 -62.5 302 -29 5 c		19 50 -57.5 308 -33 3 c		13 52 -52.5 281 +8 3 c
Square	✓ A.5546 γ	✓ A.5548 γ		✓ A 5695 γ		A.5914 γ
1	3	2	1 A5546 1]14.0	0		0
2	1	1		1		1
3	1 +1]14.0	0	A5538 1 +1]14.0	0		0
4	1	1		1		0
5	1	0		1		0
6	0 3 A5548	1		2		0
7	2 +1]14.0	0		2		0
8	3	0	+1]14.0	7	Cl m with 21+22	0
9	7 cl.m +3]14.0	0	+1]14.0	4		0
10	2	1	+1]14.0	5	+3]14.0	0
11	2	1	1 +2]14.0	11		0
12	1	3	+3]14.0	3		1
13	2	1	+4]14.0	3	+1]14.0	0
14	4 1 A5459	2	+2]14.0	2		0
15	6 1	1	1 +1]14.0	1		0
16	12 dm 5 +1]14.0	1		3	+1]14.0	0
17	2 2 +2]14.0	6		2	+1]14.0	0
18	5	0		4		2
19	1 +1]14.0	1		1		0
20	4 +1]14.0	0		3	+1]14.0	1
21	5 +2]14.0	2	1 +1]14.0	11	+1]14.0	0
22	6	2	+1]14.0	4		0
23	1	1		1		0
24	3	2		1		2
25	5 +1]14.0	6	1	7	+1]14.0	0
	14.0 -17.5	14.0 - 17.0		14.0 - 17.5		16.0 - 17.5
	16 58 3.6	16 19 1.2		16 46 2.9		16 2 0.1
	9 34 3.8	9 22 2.4		9 34 3.7		9 5 0.6
	25 92 3.7	25 41 1.6		25 80 3.2		25 7 0.3
	+ 13]14.0	+19]14.0		+9]14.0		

Square	19 20 -57.5 307 -28 5 c A.5606 β		✓ 18 50 -57.5 307 -24 4 c A.5655 δ		✓ 20 20 -62.5 301 -36 5 b A.5653 α		✓ 19 50 -62.5 ~~A~~.301 -33 4 b A.5550 α	
1	1		0		1		0	
2	1		1	+1]14.0	1		1	
3	2		0		1		1	
4	0		2		0		1	
5	1		1	+1]14.0	1		1	
6	1	+2]14.0	3	+1]14.0	0		0	
7	1		1	+1]14.0	1		1	
8	4	1 A 5695	2	+2]14.0	3		2	
9	3	+1]14.0	1	+1]14.0	0		0	
10	0		2		0		2	
11	1	+1]14.0	2		1		0	]14.0
12	3		1		0		0	
13	0	+1]14.0	0		0		2	
14	3	+1]14.0	0		0		0	
15	1	+1]14.0	1		3		0	
16	1		0		0		0	
17	0		1		0		1	1 A5548
18	2		1		2		1	
19	1	1	2		0		0	
20	1		0		2	+1]14.0	1	
21	1		2	+1]14.0	4		2	+1]14.0
22	0	+1]14.0	2		3		3	
23	2		1		3		2	
24	0		2	+1]14.0	2		0	
25	2		2	+2]14.0	1		1	
	14.0 - 17.0		14.0 - 17.0		14.5 - 17.0		14.5 - 17.0	
	16 | 24	1.5	16 | 16	1.0	16 | 12	0.8	16 | 11	0.7
	9 | 19	1.1	9 | 13	1.4	9 | 17	1.9	9 | 12	1.3
	25 | 34	1.4	25 | 29	1.2	25 | 29	1.2	25 | 23	0.9
	+8]14.0		+11]14.0		+1]14.0		+2]14.0	

	19 51 -52.4 314 -32 3 b	19 31 -47.5 318 -28 4	12 51 -62.5 272 ± 0 4 b	19 11 -27.5 338 -18 5 a
Square	✓ A 6909 β	✓ A. 6910 β	A. 7271 γ	A. 6134 β
1	4 (1 A7443) +1] 14.0	0	Coal Sack	0
2	3 2 +1] 14.0	0		1
3	3	0		0
4	11 +1] 14.0	0		4
5	4	0		1
6	6	3		1
7	3	2		0
8	1	1		0
9	1	1		0
10	1	0		0
11	6	0		0
12	6	0		0
13	2	0		0
14	4	0		1
15	5 10	0		0
16	0 2	1		0
17	3	2		0
18	12	0		0
19	11	0		0
20	7	0		0
21	2	0		0
22	4	0		0
23	4	3		0
24	8 1	1		1
25	9	2		0
	14.0 – 17.5	15.0 – 17.5		16.0 – 17.0
	16 | 75 4.7	16 | 8 0.5		16 | 8 0.5
	9 | 61 6.8	9 | 8 0.9		9 | 1 0.1
	25 | 136 5.4 ✓	25 | 16 0.6 ✓		25 | 9 0.4 ✓
	+3] 14.0			

20

Square	18 52 -52.6 312 -23 ✓ 5 a A.7412 β	17 53 -52.5 308 -15 5 a A.7413 γ	18 11 -47.5 314 -16 4 a A.7424 β	18 50 -47.5 316 -22 ✓ 5 b A.7426 β
1	0	0	0	1
2	2 +3]14.0	0	0	1
3	2	0	0 1 A.6851	4
4	2	0	0	2
5	8 +3]14.0	0	0	1
6	1	1	0	3
7	1	0	1 1 A 6852	2
8	0	0	0	3
9	2 +1]14.0	0	0	0 2 A 8488 ↓
10	0	0	0	1 +1]14.0
11	0	0	0	0
12	5	0	0	1
13	1	0	0	0
14	1 +1]14.0	0	0	0
15	1	0	0	0
16	3	0	0	2
17	2 +2]14.0	0	0	0
18	4 +1]14.0	1	0	1
19	2	0	0	0
20	1	1	0	0 +1]14.0
21	2	0	0	1
22	0	0	0	(1) 1
23	2	0	0	(2) 1
24	8	0	0	(2) 1
25	2	0	0	(2) 1
	14.5-17.5	15.0-17.5	17.0	16.0-17.5
	16 22 1.3	16 1 0.1	16 3 0.2	16 24 1.5
	9 16 1.8	9 2 0.2	9 0 0.0	9 9 1.0
	25 38 1.5	25 3 0.1	25 3 0.1	25 33 1.3
	✓ +11]14.0	✓	✓	✓ +2]14.0

Square	19 30 -52.5 313 -29 ✓ 5 b A 7443 β	19 50 -47.5 319 -31 ✓ 5 c A 7447 α	18 11 -52.5 309 -18 5 A 6851 β	18 30 -47.5 315 -18 5 a A 6852 γ
1	3	0	0	0
2	1	2	0	0
3	2	3	0	0
4	7 +1]14.0	3	1	2
5	6	7	0	0
6	3	9 +4]14.0	0	1
7	12	5	0	2
8	5	14 } Cl. m	1	(2) 2 A 7426
9	7	0	0	(1) 1 A 8488
10	3	1	1	0
11	4	1	0	1
12	1	2 +1]14.0	0	1
13	0	0	0	0
14	3	1	0 A 7413	0
15	4	0	0 ≤ { +1]14.0 (+11] 14.0)	0
16	9	1	0	0
17	10 } Cl. m	2	0	0
18	24 }	7	(2) 1	0
19	3	6 +1]14.0	1	0
20	14	11 +1]14.0	0	0
21	4	7 } Cl. p	2	0
22	3	4	0	1
23	8	1	0	(2) 1 A 7224
24	10	2	0	1
25	6	3	0	0
	15.0 - 17.5	14.5 - 17.5	15.0 - 17.5	14.5 - 17.5
	16 | 70 4.4	16 | 48 3.0	16 | 3 0.2	16 | 10 0.6
	9 | 82 9.1	9 | 43 4.8	9 | 5 0.6	9 | 4 0.4
	25 | 152 6.1	25 | 91 3.6	25 | 8 0.3	25 | 14 0.6
	+1]14.0 ✓	+7]14.0 ✓	+2]14.0 ✓	✓

Square	20 10 -52.5 314 -35 5 b A. 7451 β	21 50 -57.5 303 -48 3 b A. 7498 γ	17 52 -57.5 303 -17 5 b A. 6840 β	14 10 -52.5 284 +8 ~~+13~~ 4 c A 6701 δ
1	3	6	0 1 A6455	0
2	3	14 +1]14.0	0 2 A13331	0
3	7	13	0 2	0
4	2	6	0 1	0
5	5	2	0 1	0
6	4	5	2 1	0
7	11	13 +1]14.0	6	0
8	4	7	5	0
9	4	0	0	1
10	5 +1]14.0	8	0	0
11	1	8	0	0
12	0	22	0	0
13	2	1	0	0
14	0	6	0 1	0
15	1	13	0	0
16	3	9	1	1
17	5	7	0	0
18	10 +1]14.0	10	0 2	0
19	7	18 } with 7 = Cl. m	0 2	0
20	9	7	0 1	0
21	6	4	0	0
22	4	26 } with 12 = Cl. m	0	1
23	3	15 }	0	0
24	0	21 } with 15 = Cl. m	0	0
25	7	7 +1]14.0	0	0
	14.5 - 17.5	14.5 - 17.5	15.0 - 16.5	16.0 - 16.5
	16 | 55 3.4 9 | 51 5.6 25 | 106 4.2	16 | 133 8.3 9 | 115 12.8 25 | 248 9.9	A13331 covers entirely completely. 16 | 21 1.3 9 | 5 0.6 25 | 26 1.0	16 | 2 0.1 9 | 1 0.1 25 | 3 0.1
	+ 2]14.0 ✓	+3]14.0 ✓	✓	✓

	16 16 -32.7	18 30 -52.8		14 48 -45.2		20 11 -47.0		
	314 +11	310 -21		293 +11		320 -36		
	4 b	.5. a		3 b		4 a		
Square	A 6453 β	✓ A 6504 α		(A 8368 γ)	120m plate	✓ A 8494 γ		
						2nd	1st	
1	0	0		0		5	5	
2	0	0		0		13	13	
3	1	1		0		-1 6	7	
4	0	0		2		5	5	
5	1	0	+1] 14.0	0		1	1	
6	0	0	+1] 14.0.	1		5	5	
7	0	1		0		6	6	+2] 14.0
8	0	1	1 A 7412	0		5	5	
9	0	0		0		2	2	
10	0	3		0		1	1	
11	0	1		1		6	6	+2] 14.0
12	0	1		0		2	2	+2] 14.0
13	0	0		0		0	0	
14	0	3	+1] 14.0 1 A 6805^-1	1		4	4	
15	0	1	1	0		3	3	
16	0	1		0		16	16	+3] 14.0 Cl. m
17	0	1		0		5	5	+2] 14.0
18	0	1		0		11	11	+1] 14.0
19	0	4		0		11	11	
20	0	1		0		10	10	
21	0	0		0		4	4	
22	1	0		0		+1 9	8	+3] 14.0
23	0	0	1	1		3	3	+2] 14.0
24	0	1		0		8	8	
25	0	1		0		3	3	+2] 14.0
	15.0 - 16.0	16.0 - 17.5		16.0 - 17.0		15.0 - 17.5		
	16 | 2 0.1	16 | 16 1.0		(16 | 5 0.3		+1 16 | 80 5.0		
	9 | 1 0.1	9 | 10 1.1		9 | 1 0.1		-1 9 | 64 7.1		
	25 | 3 0.1	25 | 26 1.9		25 | 6 0.2)		0 25 | 144 5.8		
	✓	+3] 14.0 ✓				✓ +19] 14.0		

Square	19 10 −52.5 312 −26 3ii c A 9017 ε	✓ 19 50 −42.5 325 −30 4 b A 9021 γ	18 53 −37.3 327 −19 4 c A 10061 δ	19 0 −37.5 327 −20 4 b A 10231 δ
1	2 +1] 14.0	0	0	0
2	1	0	0	0
3	0 +2] 14.0	0	0 1 A 10231	1
4	0	0	0	0
5	0	1	0	0
6	0 1 A 7440	5	0	0
7	1 1	0	0	0
8	0	0	0	0
9	0	1	0	0
10	0	1	0	0
11	1	1	0	0
12	1 +1] 14.0	1	0	0
13	0	1	0	0
14	2	0	0	0
15	1	0	0	0
16	1	1	0	0
17	1	0	0	0
18	3 +1] 14.0	0	0	0
19	1	1	0	0
20	1	1	0	0
21	2	0	1	0
22	3	0	0	0
23	1 +1] 14.0	0	0	0
24	0	1	0	0
25	0	0	0	0
	14.5 − 17.0	14.5 − 17.0	16.5	17.5
	16 | 12 0.8	16 | 12 0.8	16 | 1 0.0	16 | 1 0.1
	9 | 12 1.3	9 | 3 0.3	9 | 1 0.1	9 | 0 0.0
	25 | 24 1.0	25 | 15 0.6 ✓	25 | 2 0.1 ✓	25 | 1 0.0 ✓
	+6] 14.0			

	16 24 -24.5 321 +15 ~~319~~ ~~+18~~ 4 c	16 20 -24.5 321 +16 ~~319~~ ~~+18~~ 5- c	18 5 -31.0 328 -7 5- a	14 30 -02.8 287 +6 4 a
Square	A 12037 γ	A 12043 β	A 12087 γ	A 13045 β
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	1	0	0	0
13	0	0 +1]14.0	0	0
14	1	0	0	0
15	0	0	0	0
16	0	0	1	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	1
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
	17.0-17.5		16.5	16.0
	Mostly nebulosity & dark neb. ✓	← ✓		
	16 | 2 0.1	16 0 ✓	16 1 .1	16 0 0
	9 | 0 0.0	9 0	9 0 0	9 1 0.1
	25 | 2 0.1 ✓	25 0 +1]14.0 ✓	25 1 0	25 1 0 +

	1 30 +30.3 162 −30 ? a	20 30 −22.5 350 −34 3+ a	12 40 −25 270 +37 3 a	16 0 −35 310 +11 4 a
Square	✓ A 13082 β	✓ A 13125 β	✓ A 13362 γ	A 13471 ~~γ~~ β
1	7	0	2	0
2	3	2	2	0
3	9	2	2	0
4	8	0	2 +2]14.0	0
5	10	1	5 +2]14.0	0
6	15	1	7 } Cl. m +7]14.0	0 +1]14.0
7	18	4	6	0
8	18	8	10	0
9	4	5 } with 21 = Cl. m	10	0
10	13	6	5	0
11	20	4	0	3
12	15	4	5 +1]14.0	0
13	22 +1]14.0	1	4	0
14	14	5	1	0
15	20	5	2	0
16	14	4	3	0
17	7	8	10	2
18	16	1	6 +2]14.0	0
19	12	1	7 +4]14.0	0
20	8	1	5	0
21	31	8	4 +1]14.0	1
22	38 Cl. m	3	7	0
23	30	3	1	0 +1]14.0
24	20	3	2 +1]14.0	0
25	24 +5]14.0	1	4	0
	15.0–17.5	15.0–17.5	14.5–17.5	16.0–17.0
	16 | 210 13.1	16 | 52 3.2	16 | 66 4.1	16 | 3 0.2
	9 | 184 20.4	9 | 29 3.2	9 | 46 5.1	9 | 3 0.3
	25 | 394 15.8	25 | 81 3.2	25 | 112 4.5	25 | 6 0.2
	✓ +6]14.0	✓	✓ +20]14.0	✓ +2]14.0

	6 35 -62.6			21 42 -67.5		22 20 -72.5		21 22 -5	
	240 -25			291 -42		284 -42		36 -45	
	3+ a			5 b		3i c		b	
Square	✓ A 14256 d			✓ A 4604 γ		✓ A 4834 γ		✓ A 9868 γ	
1	14	14	Cl. r +2] 14.0	3		3		6	1 A 6585
2	35	35	+5] 14.0	1		1		10	
3	5	5	1] 14.0	2	+1] 14.0	1		2	
4	$\overset{-1}{7}$	8	+1] 14.0	2		0		1	
5	5	5		7	+1] 14.0	0		0	
6	$\overset{+1}{8}$	7		0		1		0	
7	10	10		1	1 A 14219 +2] 14.0	0	3 A 9069	0	
8	$\overset{+1}{5}$	4		1		0	3	0	
9	4	4		1	+3] 14.0	0	1 A 12[illegible]	1	
10	12	12		2	+1] 14.0	1	1	6	+1] 14.0
11	10	10		3	+1] 14.0	2		6	
12	2	2		1		0		9	
13	0	0		1		2		7	
14	2	2		1		1		0	
15	5	5	+1] 14.0	3		2		8	+1] 14.0
16	15	15		4	1 A 4606	0		5	+1] 14.0
17	27	27	Cl. p	6	+1] 14.0	2		7	+1] 14.0
18	16	16		3		0	1	6	
19	10	10	+3] 14.0	1		0	1	1	
20	$\overset{+2}{13}$	11		5		2	1	3	
21	8	8		0	+1] 14.0	2	6	16	
22	18	18		2		0		6	
23	15	15		1	+1] 14.0	1		2	
24	15	15		1		0		7	
25	6	6		4		1		5	
	14.0-17.5			14.5-17.5		16.0-17.0		15.5-17.5	
-1	16 | 139	8.7		16 | 29	1.8	16 | 22	1.4	16 | 62	3.9
+1 -1	9 | 128	14.2		9 | 20	2.2	9 | 17	1.9	9 | 53	5.9
+2 +3	25 | 267	10.7		25 | 49	2.0	25 | 39	1.6	25 | 115	4.6
	✓ +13] 14.0			+12] 14.0 ✓		✓		✓ +4] 14.0	

	22 31 -52.5		22 40 -45.0		20 50 -47.5		16 0 -25
	306 -56		317 -61		320 -42		317 +19
	3i c		3+ c		4 a		3+ b
Square	A 9074 δ		A 12193 γ		A 13033 β ~~2nd~~ 1st		A 13454 β
1	0		17	+3]14.0	3 3		1
2	0		24		4 4		0
3	0		30		5 5		0
4	2		18		10 10		0
5	1		22 } cl. p		7 7		0
6	0		32		2 2		0
7	3		41	+1]14.0	25 (25	+2]14.0	0
8	1		44	+2]14.0	12 with 21 = cl. r 12	+3]14.0	0
9	0		31		14 14	+1]14.0	0
10	0		18		22 22	+2]14.0	0
11	0		32		8 8	+1]14.0	2
12	0		41 } cl. m		11 11		0
13	0		7	+1]14.0	1 1		0
14	0		20		5 5		0
15	0		26	+1]14.0	6 6		0
16	0		36 } cl. m		0 0	+1]14.0	0
17	0		40 } cl. m		9 9		0
18	1		56 } cl. m		6 6	+1]14.0	3
19	3	1 A 14327	25	+2]14.0	5 5		1
20	0		41	+1]14.0	8 8		1
21	0		with 11 & 12 = cl. r { 109	+2]14.0	22 22	+2]14.0	0
22	0		78	+1]14.0	5 5	+1]14.0	0
23	0		34	+3]14.0	3 3	+1]14.0	0
24	0		44		14 14		2
25	1		37	+1]14.0	4 4		1
	10.5-17.5		14.5-18.0		14.0-17.5		15.0-17.5

A 9074: 7501 partly covers

16	7	0.4
9	6	0.7
25	13	0.5 ✓

A 12193:

16	440	27.5
9	462	51.3
25	902	36.1

+18]14.0 ✓

A 13033:

16	135	8.4
0.K. 9	76	8.4
25	211	8.4

+15]14.0 ✓

A 13454:

16	3	0.2
9	8	0.9
25	11	0.4 ✓

	14 30 -22.5 301 +33 3+ b ✓ A 13036 β	16 30 -22.5 324 +15 3+ b A 13019 α	15 0 -72.6 280 -13 4 a A 4533 β	14 30 -47.6 289 +10 4 b A 6764 γ
Square				
1	0	0	0	0
2	0	0	0	0
3	1	0	0	1
4	2	0	0	1
5	0	0	0	1
6	3	0	0	0
7	0	0	0	0
8	1	0	0	0
9	0	0	0 +1]14.0	0
10	0	0	1	0
11	0	0	0	0 +1]14.0
12	0	0	0	1
13	0	0	0	0
14	0	0	0	0
15	0	0	1	0
16	0	0	0	0
17	0	0	1	1
18	0	0	0	0
19	0	0	1	1
20	0 +1]14.0	0	2	1
21	0	1	1	0
22	0	0	0 +1]14.0	0
23	1	0	1	0
24	3	0	1	0
25	0	0	0 +1]14.0	0
	15.0-17.0	16.5	14.5-17.5	14.5-17.5
	16 7 0.4	16 0 0.0	16 2 0.1	16 4 0.2
	9 4 0.4	9 1 0.1	9 7 0.8	9 2 0.2
	25 11 0.4 ✓	25 1 0.0	25 9 0.4 ✓	25 6 0.2 ✓
	+1]14.0	✓	+3]14.0	+1]14.0

30

Square			(one day)	
	14 10 −42.2 288 +17 4 b A 6765 γ	14 50 −42.3 294 +13 4 b A 6766 γ	13 20 −30 283 +31 4+ b A 12415 γ	12 10 +12.5 245 +73 4 c A 6718 γ
1	0	1	12 +1]14.0	13 +1]14.0
2	0	1	23 +3]14.0	9
3	0 +1]14.0	1	27 +3]14.0	25 +1]14.0
4	0	0	38	11
5	0	0	21 +2]14.0	12 +1]14.0
6	0	2	118 +1]14.0	21 +3]14.0
7	0	3 +1]14.0	45 +4]14.0	48 +4]14.0
8	0	4	28 +7]14.0	27 +5]14.0
9	1	0	20 +1]14.0	26
10	1	0	16 +1]14.0	25 +1]14.0
11	3	1	19 +2]14.0	29 +3]14.0
12	1	2 +1]14.0	8 +1]14.0	19 +2]14.0
13	0	0	5 +1]14.0	14 +2]14.0
14	0 +2]14.0	0	16 +4]14.0	23
15	0	0	cl. + 15 might fall but outside limits 23 +3]14.0	31
16	0	1	20 +2]14.0	17
17	0 +1]14.0	1	25 +3]14.0	24 +1]14.0
18	2 +2]14.0	1	with 6 + 7 = cl. 101	14 +2]14.0
19	0 +1]14.0	0	175 +4]14.0	23
20	0	1	52 +3]14.0	45 +2]14.0
21	0	1	with 8 = cl. m. 47 +3]14.0	32 +1]14.0
22	0	1 +1]14.0	32 +2]14.0	37 +7]14.0
23	0	1	10 +3]14.0	cl. m. 39 +4]14.0
24	1	0	29 +4]14.0	25 +2]14.0
25	2	1	32 +6]14.0	28 +4]14.0
	14.5 − 17.5	14.5 − 17.5	14.0 − 18.0	14.0 − 17.5
	16 6 0.4	16 16 1.0	16 439 27.4	16 342 21.4
	9 5 0.6	9 7 0.8	9 503 55.9	9 267 29.7
	25 11 0.4	25 23 0.9	25 942 37.7	25 609 24.4
	+7]14.0 ✓	+3]14.0 ✓	+64]14.0 ✓	✓ +46]14.0

		12 30 +17.5 258 +79 4 b			12 18 +7.5 255 +68 ? b		0 41 −25.3 93 −87.3 4 b		3+ 0 0 −27.8 359 −81 a	
Square	2nd	A.6719 1st	γ	✓	A 13810	β	A 3386	δ ✓	A 12546	γ
1	13	13	+3]14.0		14	+1]14.0	3		15	+2]14.0
2	7	7	+4]14.0	cl. r {	55	+8]14.0	1		27	
3	18	18	+2]14.0		27	+7]14.0	5		9	
4	11	11	+3]14.0		17	+1]14.0	7		17	
5	1	1			9		4		10	+1]14.0
6	18	18	+1]14.0		27	+1]14.0	3		9	
7	17	17			29	+1]14.0	0		10	
8	14	14			22	+7]14.0	8		9	
9	7	7	+1]14.0		10	+6]14.0	2		9	
10	58	58			38	+10]14.0	2		11	+1]14.0
11	5	5	+1]14.0		24	+3]14.0	3		9	
12	13	13			14	+5]14.0	5		7	
13	$\overset{-1}{5}$	6			4	+1]14.0	4	+2]14.0	5	
14	25	25	+2]14.0		28	+1]14.0	2	+1]14.0	6	
15	36	36	+1]14.0		17	+2]14.0	6	+2]14.0	13	+1]14.0
16	19	19	+5]14.0		11	+2]14.0	9		14	
17	27	27			33	+8]14.0	7		17	
18	$\overset{+2}{67}$	with 25 = cl. r {65	+1]14.0		39	+3]14.0	7		22	
19	$\overset{-1}{37}$	cl. m {38			28	+6]14.0	2		6	
20	48	48			26	+10]14.0	3		16	
21	87	with 10 = cl. r {87	+1]14.0		43	+6]14.0	7		12	
22	12	12	+2]14.0	cl. r {	64	+3]14.0	6		9	
23	14	14	+2]14.0		52	+4]14.0	7	+2]14.0	8	
24	20	20	+4]14.0		15	+7]14.0	11		32	+1]14.0
25	50	50			28	+9]14.0	6		21	

	14.0 − 18.0			14.0 − 18.0			14.5 − 17.5			14.5 − 17.5		
−1	16	267	16.7	16	346	21.6	16	64	4.0	16	180	11.2
+2 −1	9	362	40.2	9	326	36.2	9	56	6.2	9	143	15.9
0	25	629	25.2	25	672	26.9	25	120	4.8	25	323	12.9

✓ +33]14.0 ✓ +112]14.0 +7]14.0 ✓ ✓ +6]14.0

Square	12 20 +25 ~~260~~ 258 +63 4 - b ✓ A 14699 β	12 10 +17.5 23~~1~~5 - + 7~~5~~8 5 b A 14551 α	12 40 +7.5 270 +69 b ✓ A 14586 γ	12 31 +12.8 262 +7° 5 b ✓ A 6720 β
1	4	16 +1]14.0	7	19 +1]14.0
2	6	32 } d. m	15 +1]14.0	20
3	3	43 +3]14.0	10	16 +1]14.0
4	5	36 +2]14.0	18	9 +2]14.0
5	6 +2]14.0	9 +6]14.0	3 +2]14.0	12
6	7 +1]14.0	28 +1]14.0	17	22 +1]14.0
7	16	27 +2]14.0	17	27 +2]14.0
8	19 +1]14.0	18 +2]14.0	28	13 +1]14.0
9	12 +4]14.0	14	9	7 +2]14.0
10	17 +2]14.0	14 +1]14.0	16	7
11	29 +2]14.0	20 +2]14.0	24 +1]14.0	7 +1]14.0
12	29 +1]14.0	16	21 +1]14.0	5 +2]14.0
13	3	2 +1]14.0	13 +2]14.0	8
14	6	15 +5]14.0	21 +3]14.0	16 +4]14.0
15	7	17 +1]14.0	25 +1]14.0	d. m { 31 +4]14.0
16	8	15 +2]14.0	40 +1]14.0	33
17	6	24 +1]14.0	43 +1]14.0	30 +2]14.0
18	25	35 +4]14.0	13	21 +3]14.0
19	6 +1]14.0	31 +2]14.0	12 +1]14.6	23 +1]14.0
20	21 +1]14.0	24 +1]14.0	19	26 +2]14.0
21	d. ✓ 16 +1]14.0	37	25 +1]14.0	27 +2]14.0
22	28	31 +1]14.0	24 +1]14.0	21 +2]14.0
23	12	17 +2]14.0	23 +3]14.0	23 +1]14.0
24	14	21 +1]14.0	23 +3]14.0	32 +3]14.0
25	31	32	29 +1]14.0	20 +3]14.0
	15.0 - 17.5		14.0 - 17.5	
	16 157 9.8	16 317 19.8	16 284 17.8	16 257 16.1
	9 159 17.7	9 256 28.4	9 201 22.3	9 223 24.8
	25 316 12.6 ✓	25 573 22.9	25 485 19.4	25 480 19.2
	+16]14.0	✓ +41]14.0	✓ +23]14.0	✓ +40]14.0

Square	21 20 -62.6 299 -43 4 b ✓ A6085 γ	3 27 +27.4 130 -22 4i c A7115 ε	12 7 +27.8 182 +23 3i c A9887 δ	20 0 -25 -28 -28 345 4 b ✓ A13087 β
1	2 + 1]14.0	0	3 (2 more on A8261)	0
2	4 + 2]14.0	0	6	0
3	7	1	1	2
4	3 + 3]14.0 (1 A6994)	1	14	0
5	1 3	0	5	0
6	4 8	0	12	1
7	8 9	1	9	0
8	6 2	1	12	0
9	10 1	1	5 +1]14.0	0
10	7	1	4 + 4]14.0	1
11	6 + 1]14.0	0	3 +4]14.0	1
12	6	0	1 +3]14.0	1
13	4	0	0 (3 on A8261)	0
14	1	0	4 +1]14.0 (2 more on ")	1
15	3	0	0 (1]14.0 on 8261)	0
16	7 + 2]14.0	1	1	0
17	7	1	5	0
18	2	0	2	0
19	11 + 1]14.0 6	0	4	1
20	17 4	0	3 +1]14.0	1
21	8 3 +1]14.0	0	9 +1]14.0	0
22	7 +2]14.0	1	2 +2]14.0	1
23	4	0	2	0
24	2	0	0	0
25	2	1	3	2
	15.0 - 18.0	16.0 - 17.5	15.0 - 18.0	16.0 - 17.5
		16 7 0.5	16 87 5.4	16 7 0.5
	16 103 6.4	9 3 0.3	9 30 3.3	9 5 0.6
	9 73 8.1	25 10 0.4	25 117 4.7	25 12 0.5
✓	25 176 7.0 +14]14.0	✓	+ 18]14.0 ✓	

	5 27 -5.4 176 -28 4 b A 2119 γ	0 38 +40.1 89 -22 4 b A 1265-1 γ	✓ 3 38 +23.8 135 -22 5 b A 2185 β	11 5 -61.3 209 -1 4 a A 2513 β
Square 1	0	4	1	0
2	0	1	0	0
3	0	1	1	0
4	0	4	0	0
5	1	2	0	0
6	0	5	1	1
7	0	4	0	0
8	0	7	2	0
9	0	2	0	0
10	0	3	0	0
11	0.	0	0	0
12	0	2	2	0
13	0	1	0	0
14	0	5	0	0
15	1	4	2	0
16	0	5	1	0
17	0	0	0	0
18	0	2	0	0
19	0	3	0	0
20	0	4	0	0
21	0	5	0	0
22	0	2	0	0
23	0	1	0	0
24	0	5	1	0
25	0	0 (Andromeda + companions) 4] 14.0	1	0
	15.0 - 17.5	14.5 - 17.5	16.0 - 18.0	14.5
	Orion	Andromeda	Pleiades	16 1 0
	16 2 0.1	16 50 3.1	16 10 0.6	9 0 0
	9 0 0.0	9 22 2.4	9 2 0.2	25 1 0
	25 2 0.1 ✓	25 72 2.9	25 12 0.5	✓
		+ 4] 14.0 ✓	✓	

Square	12 56 +28.4 5 +88 3 ~~d~~ β ✓ F 12949 (new nebulae)			18 22 -62.7 300 -22 a ✓ A 14253 α			0 30 -22.5 ~~45~~ 70 -83 4 b ✓ A 14358 α		21 0 -30 343 -30 42 4 a ✓ A 14296 β	
1	9	2	+2]14.0	3	1	]14.0 { A 5°45'9	13		5	
2	27	2		4	1	+1]14.0 A 5°42'8	11		7	
3	14	3	+1]14.0	1			19	1 A 3386	4	
4	14			2	1	+3]14.0	30	2 +2]14.0	5	
5	5	1		1	8	+13]14.0 } cl.	7	2 +1]14.0	2	
6	11	2		52		+1]14.0 } +	19	3 1	5	
7	18	6		4		+4]14.0 +.1]14.0	38	+1]14.0	4	
8	32	6	+1]14.0	2		+2]14.0	18	+1]14.0	1	
9	5	2		0		+1]14.0	5	+1]14.0	2	
10	2			0		+1]14.0	10	+1]14.0	3	
11	8	2		2		A 13331 +1]14.0	14	+1]14.0	5	
12	4	2		0	1		12		16	
13	0			0	1	+1]14.0	7		0	+1]14.0
14	5	1	+2]14.0	1			19		4	
15	30	3		1			10		2	
16	42	9		5	1	+1]14.0	2		4	
17	61	8	+1]14.0	6	1	+1]14.0	22	+2]14.0	6	
18	61	2	+2]14.0	3	1	+1]14.0	30	1 +1]14.0 1	5	+1]14.0
19	13	5		9	7	+3]14.0	25	+3]14.0	0	
20	63	7	+2]14.0	1	3	+4]14.0	40	1	7	+2]14.0
21	42	7		8		+1]14.0 +1]14.0	15		1	
22	36	8		1	1		19	+1]14.0	10	+1]14.0
23	24	8	+1]14.0	2			19		8	
24	73	8		5	1		13		9	
25	267	27	+2]14.0	2			24		4	

	14.5 - 17.5		14.0 - 17.5		14.5 - 18.0 South gal. pole		14.5 - 17.5	
16	267	16.7	16 92	5.8	16 243	15.2	16 69	4.3
9	720	80.0	9 51	5.7	9 210	23.3	9 50	5.6
25	987	39.4	25 143	5.7	25 453	18.1	25 119	4.8
	+14]14.0 ✓		+42]14.0 ✓		+15]14.0		+5]14.0	

whole plate
clusters
no. gal. pole

Square	7 50 -57.5 238 -14 4 b A 4259 γ	9 54 -5.5 214 +38 4 c A 5188 δ	8 50 -57.8 243 -8 4 a A 4257 α	19 5.3 +21.5 27 -5 4 a A 2747 β
1	0	1	0	1
2	0	1	0	0
3	0	2	0	0
4	0	2	0	0
5	0	1 +1]14.0	0	0
6	0	1	0	0
7	0	1	0	0
8	0	0	0	0
9	0	1	0	0
10	0	0	0	3
11	0	2	0	0
12	1	3	0	0
13	0	0	2	0
14	0	8	1	0
15	1	1	1	0
16	0	5	0	0
17	0	5	0	0
18	0 +1]14.0	1	1	0
19	0	0	0	0
20	0	2	0	0
21	0	2	1	0
22	0	3	0	0
23	1	0	0	0
24	1	2	0	0
25	0	1	0	0
	10.5-17.0	15.0-18.0	14.5-17.0	16.0-18.0
	16 2 0.1	16 29 1.8	16 4 0.2	16 4 0.2
	9 2 0.2	9 16 1.8	9 2 0.2	9 0 0.0
	25 4 0.2	25 45 1.8	25 6 0.2	25 4 0.2
	+1]14.0 ✓	+1]14.0 ✓	✓	✓

Square	20 48 +32.5 45 -9 5 a A 2837 α	17 26 -22.2 332 +4 4 c A 3519 γ	9 22 -57.0 245 -3 5 b A 4248 β	21 10 -17 [illegible] 213 -44 4b c ✓ A 3816 γ
1	0	0	0	3
2	0	1	0	2
3	0	1	0	1
4	0	0 +1 7,14.0	0	1
5	0	0	0	0
6	0	1	0	3
7	0	1	0	2
8	0	0	0	2
9	0	0	0	1
10	0	0	0	1
11	0	1	0	0
12	0	0	0	2
13	0	0	0	3
14	1	0	0	10
15	0	0	0	1
16	0	1	1	3
17	0	0	0	3
18	0	0	0	2
19	0	0	0	1
20	0	0	0	2
21	0	0	0	6
22	0	0	0	0
23	0	0	0	2
24	0	0	0	6
25	0	0	0	3
	17.0	16.0 – 17.5	16.0 – 16.5	15.5 – 17.5
	16 1 0.1	16 6 0.4	16 1 0.1	16 35 2.2
	9 0 0	9 0 0	9 0 0	9 25 2.8
	25 1 0.0	25 6 0.2	25 1 0.0	25 60 2.4
	✓	+1 7,14.0 ✓	✓	✓

	13 32 -52.7	16 50 -42.5	18 52 -27.8	14 50 -62.8
	275 +9	311 -1	335 -15	284 -4
	4 b	4 c	3 c	4 c
Square	A 6419 β	A6417 δ	A 6124 β	A5376 β
1	0	0 A12425, a good grade plate covers completely.	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	1
5	1	1	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	1	0	0	0
10	1 +1]14.0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	1	0
20	1	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	1	0	0	0
25	0	0	0	0
	16.0-18.0	16.5	17.0	15.5
	16 3 0.2	16 1 0.1	16 0 0	16 1 0.1
	9 2 0.2	9 0 0	9 1 0.1	9 0 0
	25 5 0.2	25 1 0.0	25 1 0	25 1 0
	+1]14.0 ✓	✓	✓	✓

Square	11 40 -72.5 265 -11 4 c A 5355 δ	11 42 -67.5 264 -6 4 b A 5349 γ	11 0 -67.5 260 -7 5 a A 5202 β	9 0 -72.5 255 -17 4 b A 5106 β
1	0	0	0	0
2	0	0	1	0
3	0	0	2	0
4	0	0	0	0
5	0	0	0	0
6	0	1	0	0
7	0	0	0	0
8	0	1	0	1
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	1	0
13	0	0	0	0
14	0	0	0	0
15	0	0	1	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	1	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	1	0	0	0
	17.0-17.5	16.5-17.0	16.5-17.5	16.5
	16 0 0	16 2 0.1	16 5 0.3	16 1 0.1
	9 2 0.2	9 0 0	9 0 0	9 0 0
	25 2 0.1	25 2 0.1	25 5 0.2	25 1 0
	✓	✓	✓	✓

	9 40 -72.5	10 20 -72.5	9 40 -67.5	15 0 -77.5
	257 -15	260 -13	254 -11	278 -17.5
	4 b	3 b	4 c	4 c
Square	A 5104. β	A 5102 β	A 5049 γ	A 4535 ε
1	0	0	0	0
2	1	0	0	0
3	2	0	1	2
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	1	0 +1] 14.0
8	0	0	0 +1] 14.0	0
9	0	0	0	0 +1] 14.0
10	0	0	0	0
11	0	0	0	1
12	0	0	0	0
13	0	0	0	0
14	0	0	0	1
15	0	0	0	0 1 (A4466)
16	0	1	1	0 +1] 14.0
17	0	0	0	0
18	0	0	0	0
19	1	0	0	1
20	1	1	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	1	0	0	0
25	0	0	0	0
	16.0 - 17.5	16.5 - 17.0	15.5 - 17.0	14.5 - 17.0
	16 3 0.2	16 1 0.1	16 3 0.2	16 5 0.3
	9 3 0.3	9 1 0.1	9 0 0	9 1 0.1
	25 6 0.2	25 2 0.1	25 3 0.1	25 6 0.2
	✓	✓	✓ +1] 14.0	✓ +3] 14.0

~~Plate checked: no new nebulae~~

	14 20 −72.5 278 −12 5 a	14 0 −77.5 276 −16 5 a	13 4 −67.4 273 −5 5 a	13 4 −77.6 272 −16 4 c
Square	A 4468 γ	A 4466 β	A 4407 β	A 4402 δ
1	0	1 (1 A4402)	0	1
2	3	2	0	0
3	0	0	0	0
4	0	0	0	1 (1 A4466)
5	0	0	0	0
6	0	2	0	0
7	0	1	0	0
8	0	1	0	0
9	0	0	0	0
10	0	1	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	1	0
15	0	1 +1] 14.0	0	0
16	0	2	0	0
17	0	2	0	0
18	0	0	0	0
19	0	0	0	0
20	1	0 { A4535 +1] 14.0	0	0
21	0	0	0	1
22	0	1	0	0
23	0	0	0	0
24	0	4	0	0
25	0	0	0	0
	15.0 − 17.5	15.0 − 17.5	16.5	16.0 − 16.5
	16 3 0.3	16 12 0.8	16 1 0.1	16 2 0.1
	9 1 0.1	9 7 0.8	9 0 0	9 1 0.1
	25 4 0.2	25 19 0.8	25 1 0	25 3 0.1
		+ 2] 14.0		

Square	12 20 -72.5 267 -11 5 b A 4400 β	12 0 -77.5 267 -11 5 A 4398 γ	8 22 -57.8 241 -11 5 a A 4265 α	15 11 -5.5 292 +3 4 b A 6423 γ
1	1	1	0	0
2	0	0	0	1
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	1	0	0	0
8	0	1	0	0
9	0	1	0	0
10	0	0	0	0
11	0	0	1	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	2	0	0	0
17	0	0	0	0
18	0	0	0	0
19	1	0	0	0
20	0	0	0	0
21	1	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
	14.5 - 17.5	16.0 - 16.5	16.0	17.5
	16 4 0.2	16 3 0.2	16 1 0.1	16 1 0.1
	9 2 0.2	9 0 0	9 0 0	9 0 0
	25 6 0.2	25 3 0.1	25 1 0	25 1 0
	✓	✓	✓	✓

Square	19 50 +32.5 37 +1 3 a A 1510 α	10 0 -77.5 262 ~~279~~ -18 4 c A 6649 γ	10 51 -57.5 355 +2 5 a A 6657 β	11 0 -72.5 262 -12 4 c A 6717 δ
1	0	1	0	0
2	0	1	0	0
3	0	2	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	1	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	1
12	0	2	0	0
13	0	0	0	0
14	0	0 +1]14.0	0	0
15	1	1	0	2
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	1	1	0	0
21	0	0	0	0
22	0	1	0	0
23	0	1	0	0
24	0	1	0	0
25	0	0	0	0
	15.5 - 17.5	16.0 - 17.5	15.5	15.5 - 16.0
	16 1 0.1	16 7 0.4	16 1 0.1	16 3 0.2
	9 1 0.1 -1.0	9 4 0.4 -0.4	9 0 0 0	9 0 0
	25 2 0.1	25 11 0.4	25 1 0	25 3 0.1
		+1]14.0		

	16 0 −30.0 314 +15 3 H-b	19 10 −52.5 275 +9 5 A-b	17 28 −17.5 337 +7 5 c	17 26 −26.2 329 +4 5 c
Square	A 13461 γ (δ)	A 6758 γ	A 6808 γ	A 12090 γ
1.	0	0	0	0
2	3	0	1	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	1	0	0	0
8	0	0	0	0
9	0	0	0	0 {A3579 {+1]14.0
10	1	0	0	0
11	0	0	0	0
12	1	0	0	0
13	0	0	0	0
14	0	0	0	1
15	0	0	0	0
16	0	0	0	0
17	1	0	0	0
18	0	0	0	0
19	0	0	0	0
20	1	0	0	0
21	2	0	0	0
22	1	0	0	0
23	1	2	0	0
24	0	0	0	1
25	0	0	0	0
	16.0 – 17.5	16.0 – 17.0	17.0	16.5
	16 6 0.4	16 0 .0	16 1 0.1	16 1 0.1
	9 6 0.7	9 2 0.2	9 0 0	9 1 0.1
	25 12 0.5	25 2 0.1 ✓	25 1 0 ✓	25 2 0.1 ✓
	✓			+1]14.0

Square	18 24 -4.2 355 +1 35 c A 12575 δ	14 30 -37.5 294 +20 4 f ✓ A 13041 α	18 0 -60 302 -19 35 b A 13331 β	12 30 -32.0 267 +29 4 b ✓ A 13035 d
1	0	0	0	0 +1],14.0
2	0	0	1	4
3	0	0	0	0
4	0	1	0	0
5	0	0	0	0
6	0	0	1	0
7	0	1	3	0
8	0	3	0	0
9	1	0	0	1
10	0	0	1 (4 6240)	0
11	0	0	4	0
12	0	0	1	0
13	0	0	0	0
14	0	0	0	0
15	0	0	3	1
16	0	2	4	1
17	0	0	1	1
18	0	0	0	1
19	0	0	1	0
20	0	2	1	0
21	0	1	1 1	0
22	0	2	1	1
23	0	0	2	0
24	0	2	3	0
25	0	0	2	1
	16.0	14.5-16.0	14.0-17.5	16.0-17.5
	16 1 0.1	16 7 0.4	16 22 1.4	16 7 0.4
	9 0 0	9 7 0.7	9 13 1.4	9 4 0.4
	25 1 0	25 14 0.6	25 33 1.4	25 11 0.4
	✓	✓	✓	✓ +1],14.0

Square	12 40 −30 270 +31 4 a ✓ A14733 α		14 30 −32.5 295 +24 4 4 ✓ A13039 β		3 30 −22.5 179 −51 3+ c ✓ A13105 γ		15 0 −25 306 +27 3− c A13342 δ	
1	3	1 A13035	2		1		0	
2	0		4	+1]14.0	3		0	
3	10		2		3	+1]14.0	1	
4	2		2	+1]14.0	1	+1]14.0	0	
5	1	1 A14715	1		0	+1]14.0	0	
6	9	2	1		3		0	
7	17	6	1		4	+2]14.0	2	
8	23	3 +2]14.0	1		3	+1]14.0	1	(2 A13017)
9	25	10.	5		2		1	1
10	3		0		2		1	
11	3		1		3	+1]14.0	1	
12	6		1		2		2	
13	2	+1]14.0	0		0		1	
14	1		2		4	+2]14.0	4	
15	2		2		2		3	
16	7	1	1		1		0	
17	5		1	+1]14.0	3		1	
18	17		5		4		2	
19	7	1	2	+1]14.0	3	+2]14.0	0	
20	17		3		5		2	
21	20		4		4	+1]14.0	0	
22	6		4		7	+1]14.0	1	
23	5		2		3		3	
24	5		4		3		1	
25	12	+1]14.0	2		3		3	
	14.0 − 18.0		14.5 − 18.0		14.0 − 18.0		15.0 − 17.5	
	16 138 8.6		16 26 1.6		16 34 2.2		16 20 1.2	
	9 95 10.6		9 27 3.0		9 35 3.9		9 13 1.4	
	25 233 9.3		25 53 2.1		25 69 2.8		25 33 1.3	
	+4]14.0 ✓		✓ +4]14.0		✓ +13]14.0		✓	

Square	10 10 −32.5 237 +20 5 c ✓ A4342 β		17 50 −72.5 289 −23 3½ ξ − A4599 δ		18 28 −72.8 290 −2~~x~~4 4 a ✓ A14208 β		1 10 −22.5 141 ~~150~~ −80' ✓ A14323 α	
1	2		0	+2]14.0	0	(1 A4599)	2	1 (A14692)
2	4	+1]14.0	0		5		17	3
3	9		0		1	(1 A4609)	14	3
4	1	+1]14.0	1		3		4	1
5	3		0		1		7	+1]14.0
6	4		0		1		11	+1]14.0
7	5	+1]14.0	1	+1]14.0	0		22	
8	0		3	+1]14.0	0		32	
9	1		0		0		22	
10	1		1		1		48	
11	0		2		2		33	
12	0		1	1 A4598	0		23	
13	1		0		3		16	
14	3		0		0	+1]14.0	28	
15	2		1		0	1	29	
16	2	+1]14.0	0		1	2.	9	
17	4		1		3		12	+2]14.0
18	2	+2]14.0	3		1		14	
19	2	+1]14.0	2		4	+1	13	
20	3		0		5	1 +1]14.0	24	
21	1		1	+1]14.0	1	1	37	
22	0		0		2	1 +1]14.0	27	
23	0	+1]14.0	1		4	3 +1]14.0	30	
24	1		1		0	1 2	26	
25	1		2		3		22	
	14.0 − 17.5		14.0 − 17.5		14.0 − 18.0		15.0 − 17.5	
	16 38	2.4	16 11	0.7	16 23	1.4	16 317	19.8
	9 14	1.6	9 11	1.2	9 32	3.6	9 205	22.8
	25 52	2.1	25 22	0.9	25 55	2.2	25 522	20.9
	+8]14.0 ✓		+8]14.0 ✓		+5]14.0 ✓		+4]14.0	

Square	// 20 20 -72.5 289 -34 4 c ✓ A 4749 β	18 23 -67.7 295 -25 4i a ✓ A 14202 β (2 A4598)	18 20 -67.5 295 -24 5 b ✓ A 4611 β	// 3 50 -57.5 236 -46 4 c+ ✓ A 4184 γ
1	0	1 (2 A4611)	1	1
2	3	2 1	1	1 +1]14.0
3	11	0	0	1
4	2	2	0	2
5	1	0	1	3
6	6 +1]14.0	0 2	2	5
7	5	0 1	0	3 +1]14.0
8	3	0	1	4 +2]14.0
9	2	1 1 +1]14.0	2 +1]14.0	5
10	5	0 4	3	13
11	7	3 1	1	13
12	7	0	1	9
13	1	0 1	0	12
14	4	1	0	21
15	5	1 1	0 1 A4098	2
16	2	1 1	1	5
17	10	1	0	4
18	10 +1]14.0	4	0	7
19	13 +1]14.0	0 (1 A4728)	0 1 A4728	2
20	11	5 2	2	9
21	11	3 1	2	6
22	4	2 2	5	9
23	21 +4]14.0	0	0	16
24	6	2	0	13
25	6	7 1 +1]14.0	1	6
	14.0 - 18.0	14.5 - 18.0	15.0 - 17.5	15.0 - 17.5
	16 64 4.0	16 29 1.8	16 15 0.9	16 112 7.0
	9 92 10.2	9 31 3.4	9 11 1.2	9 72 8.0
	25 156 6.2	25 60 2.4	25 26 1.0	25 184 7.4
	✓ +7]14.0	✓ +2]14.0	✓ +1]14.0	✓ +4]14.0

3519 covers; use that	17 26 −22.2	18 20 −62.5	21 44 −72.6	21 0 −72.
	332 +4	300 −22	288^c ~~−37~~ 40	288 −37
	4 ~~b~~c	4 c	4 ai	3i c+
Square	A 3522 γ	✓ A 5459 γ	✓ A 14325 α	✓ A 4759 β
1	0	1 +1]14.0	3 1 A 4759	1 (+1]14.0 A 4749)
2	0	0 +1]14.0	11 1 {+ A 4834 +1]14.0	0
3	0	1	8 +1]14.0 +1]14.0	3
4	0 +1]14.0	2	9 +1]14.0	1
5	0	1	3 +1]14.0	1
6	0 1 A 3519	16 +3]14.0 with	16 } cl. m	2
7	0		+1]14.0)	0
8	0		+1]14.0	3 +2]14.0
9	0		1 +1]14.0	1
10	0		+5]14.0 } cl. m	4
11	0		+1]14.0	4
12	0			0 1
13	0		3	0 1
14	0		4 +1]14.0	2 4
15	0		2	0 5
16	0 1		1	0 2
17	0 +1]14.0		1 +1]14.0	3 3
18	0		+1]14.0	2
19	0		+1]14.0	1
20	0	5 +1]14.0	42 +2]14.0 } cl. m	3
21	0	4	36 +2]14.0 +1]14.0	7
22	0	1	16 +4]14.0	2
23	0	2	15 2(+3]14.0)	2 3
24	0	0	23 +1]14.0	1 2 +2]14.0
25	0	0	18 {+1]14.0 +1]14.0 +1]14.0	1 1
	17.0		14.0 − 18.0	14.0 − 17.5
	16 2 0.1	16 34 2.2	16 180 11.2	16 35 2.2
	9 0 0	9 21 2.3	9 195 21.8	9 31 3.4
	25 2 0.1	25 55 2.2	25 375 15.0	25 66 2.6
	✓ +2]14.0	✓ +10]14.0	✓ +34]14.0	✓ +5]14.0

14860 = −80, 17

$0^{h}\ 0^{m} - 25^{\circ}.0$

−10 = 13.5
0 = 16.0
0 = 18

14871 = −81, 344

0 0 −30.

−10 = 13.5
0 = 16
0 = 18

14866 = −85, 30

0 20 −25

−10
0
0

1932phae.proj.234B

3519 covers, use that Square	17 26 −22.2 332 +4 4 ~~k~~c A3522 γ		18 20 −62.5 300 −22 4 c ✓ A5459 γ		21 44 −72.6 288 40 ~~−37~~ 4 a ✓ A14325 α		21 0 −72.5 288 −37 3-i c+ ✓ A4759 β	
1	0		1	+1]14.0	3	1 A4759	1	(+1]14.0 A4749)
2	0		0	+1]14.0	11	1 { A4834 +1]14.0	0	
3	0		1		8	+1]14.0 +1]14.0	3	
4	0	+1]14.0	2		9	+1]14.0	1	
5	0		1		3	+1]14.0	1	
6	0	1 A3519	16	+3]14.0 } with 19420	16	} cl. m	2	
7	0		5	+1]14.0 } cl m	13	+1]14.0 }	0	
8	0		3		9	+1]14.0	3	+2]14.0
9	0		1		2	1	1	
10	0		1		15	+1]14.0 +5]14.0 } cl m	4	
11	0		0		16	+1]14.0	4	
12	0		1		21		0	1
13	0		0		7	3	0	1
14	0		0		14	4 +1]14.0	2	4
15	0		1		13	2	0	5
16	0	1	1		6	1	0	2
17	0	+1]14.0	1	+1]14.0	14	1 +1]14.0	3	3
18	0		2		18	+1]14.0	2	
19	0		6	+2]14.0	10	+1]14.0	1	
20	0		5	+1]14.0	42	+2]14.0 } cl. m	3	
21	0		4		36	+2]14.0 } +1]14.0	7	
22	0		1		16	+4]14.0	2	
23	0		2		15	2(+3]14.0)	2	3
24	0		0		23	+1]14.0	1	2 +2]14.0
25	0		0		18	{ +1]14.0 +1]14.0 +1]14.0	1	1

17.0						14.0 − 18.0			14.0 − 17.5		
16	2	0.1	16	34	2.2	16	180	11.2	16	35	2.2
9	0	0	9	21	2.3	9	195	21.8	9	31	3.4
25	2	0.1	25	55	2.2	25	375	15.0	25	66	2.6
✓ +2]14.0			✓ +10]14.0			✓ +34]14.0			✓ +5]14.0		

		same pos. as A7033		
	6 0 -77.5	0 21 -67.4	0 0 -30	0 0 -25
	25.6 -29	27 -58	344 -81	17 -80
	3 i c	no qual. 4	no pupil a	unequal a
Square	A 4923 δ	✓ A 14232 γ	✓ A 14871 β	✓ A 14860 α
1	0	3 1 A7033	19	13 3 12546
2	6 +1]14.0	4 9	21	27 15
3	1	7 7	21	33 20
4	1	3 2	20	12 10
5	0	1 3	3	3 8 +1]14
6	1	2 11.	9	7 5
7	0	0 9	15 4 A12546	41 6 +1]14
8	0	2 6	21 12 +1]14.0	cl. m {53 +6]14
9	0	1 5	1 3	10 +1]14.0
10	0	1 8	8 12	6
11	1 +1]14.0	3 2	5 9 +2]14.0	7
12	4 +1]14.0	0 1	1 7	5
13	3 +2]14.0	3 3	0 5	1
14	2	1 4 +1]14.0	8 8 +1]14.0	7 +1]14.0
15	1 +1]14.0	5 5	11 3 +1]14.0	14 1 +1]14
16	5	6 3	10	20 4 +1]14
17	2	5 10	19 +1]14.0	cl. m {57 10
18	1	1 6	with 20 cl. m {27 +1]14.0	24 9
19	0	3 17	18	21 12
20	0	5 8	13 6 +1]14.0	20 5 +1]14.0
21	0	1 5	9 3 +1]14.0	2
22	1 +1]14.0	7 18	9 9	2
23	4	6 5	9 18 +1]14.0	18
24	8	5 5	15 18 +1]14.0	cl. m {30 4
25	2	2 7	19 4	16 6
	14.5-17.5	14.5-17.5	14.0-18.0	14.0-18.0
	16 25 1.6	16 121 7.6	16 236 14.8	16 331 20.7
	9 18 2.0	9 116 12.9	9 196 21.8	9 236 26.2
	25 43 1.7	237 9.5	25 432 17.3	25 567 22.7
	✓ +7]14.0	+1]14.0	✓ +11]14.0	✓ +13]14.0

1932phae.proj.234G

	2 0 1 -40 224 -69 3 b	0 20 -25 30 -85 no good. b	11 46 +28.0 180 +78 5 b	18 53 -45 319 -21 3 a
Square	✓ A 14316 β ✓	✓ A 14866 β	✓ A 8261 β	✓ F 8488 γ
1	4	4 3 A 14860	2	0
2	2	13 4	4 +1]14.0	2
3	6 +2]14.0	12	18 +1]14.0	0
4	5 +1]14.0	13 +1]14.0	14 +10]14.0	1
5	7 +1]14.0	10	2 +2]14.0	2
6	11 +2]14.0	14 +2]14.0	5	4
7	5 +3]14.0	18 .	3 +1]14.0	4
8	6	with 21 = cl. m { 19 +1]14.0	12 +1]14.0	1
9	7	30	5 +4]14.0	0
10	5 +3]14.0	31 +3]14.0	4	2
11	15	4	5 +1]14.0	0
12	10 +2]14.0	3 +2]14.0 20 +1]14.0	8	2
13	3 +1]14.0	7 2	8 +1]14.0	0
14	4	cl. { 33 38 +4]14.0	2	0
15	5	13 9 +1]14.0	6 +2]14.0	0
16	1	5 2	6 .	0 1 A 7426
17	9	15	8 +3]14.0	1
18	13	3	5 +3]14.0	0
19	7	8	8 +1]14.0	2
20	11 +2]14.0	11	8 +2]14.0	1
21	7	24	13 +2]14.0	1
22	10	25	6 +1]14.0	2
23	15	2 24 +1]14.0	11 +1]14.0	0
24	13 +3]14.0	9 1 +1]14.0	3 +3]14.0	1
25	11	10	6 +1]14.0	1 +1]14.0
	14.0 - 17.5	14.0 - 17.5	14.0 - 18.0	14.5 - 17.5
	16 96 6.0	16 307 19.2	16 97 6.1	16 19 1.2
	9 96 10.7	9 129 14.3	9 68 7.6	9 9 1.0
	25 192 7.7	436 17.4	25 165 6.6	25 28 1.1
	✓ +15]14.0	✓ +17]14.0	✓ +42]14.0	✓ +1]14.0

Square.	4 8 −69.0 249 −39 3 b A 12790 β	14 8 +19.8 34X² +68 4 c— A 3092 δ omitted	15 10 −22.5 310 +28 4 i c A 13017 δ	18 54 −62.7 301 −27 unequal. a A 14222 α 1 +2]14.0 (A554L)
1	4	1	0	10 +2]14.0
2	1	6	0	16 +3]14.0
3	0	1	0	12
4	0	3	1	13 1
5	1	1	0	2 1
6	2	0	1	5
7	4 +2]14.0	0	0	7 3 +1]14.0
8	0	1	0	6 3 3+5]14.0
9	3	0	0	2 +1]14.0
10	10 +1]14.0	0	0	2 2
11	7	0 +1]14.0	0 +1]14.0	4 2
12	4	1 +1]14.0	0	2 2
13	0	0 +1]14.0	0	2
14	0 +1]14.0	0	1	4 5
15	1	0 +1]14.0	1	14 6 +2]14.0
16	1	0	0	cl. m { 24 9 +2]14.0
17	3	3 +3]14.0	1	51 12 +2]14.0
18	7	2 +1]14.0	2	23 5 +1]14.0
19	2	2 +2]14.0	1 +2]14.0	31 2
20	3	0	1	27 3 +2]14.0
21	4	1	0	19 5 +1]14.0
22	8	0 +2]14.0	2	29 5
23	2 +2]14.0	0	0 +1]14.0	15 +1]14.0
24	5	2 +1]14.0	0	26 4
25	4	2	1	cl.p { 33 3 +1]14.0
	14.0−17.5	14.0−17.0	14.0−17.0	14.0−18.0
	16 38 2.5	Very poor plate	16 4 0.2	16 3 10.2
	9 38 4.2	Objects not trustworthy	9 8 0.9	29 3 32.3
	76 3.0	Objects? No check	25 12 .5	45 6 18.2
	+6]14.0		+4]14.0	+26]14.0

	23 3	-27.6	1 30	-22.5	8 0	-25.0	21 35	-23.7
	284	-48	156 ~~160~~	-78	211	+5	356	-49
	3+	b	4	c+	4	a	4	b
Square	✓ A 14213 γ	7 (A14219)	✓ A 14331 β		A 14370 α		✓ A 12652 γ	
1	5	+2]14.0	3		0		9	
2	12	8 +1]14.0 +1]14.0 1	5		1		12	
3	21	+1]14.0	14		1		7	+1]14.0
4	12		10		2		8	+2]14.0
5	4		11		1		1	
6	7	+4]14.0	14		0		6	
7	9		19		1		7	+1]14.0
8	4		16		3		6	
9	0	+1]14.0	10		1		1	
10	10		16	+1]14.0	4		7	
11	7		10		5		25	
12	8	3 +1]14.0 +3]14.0	20		2		14	
13	3	+6]14.0	14		2		2	+1]14.0
14	6	6	22		0		11	
15	3		18		0		20	
16	3	2	5		0		14	
17	10	6	30	+1]14.0	0		15	
18	16	4 +1]14.0	18		0		18	
19	10		29	} Cl. m	2		8	+1]14.0
20	15	+1]14.0	43	}	1		7	
21	10		22		1		11	
22	21		28		3		Cl. m { 46	+5]14.0
23	6	6	25		3		18	+1]14.0
24	5	2	26	+1]14.0	1		13	
25	7	2	17	+1]14.0	1		17	
	14.0 - 18.0		15.0 - 18.0		16.0 - 17.5		14.0 - 18.0	
16	141	8.8	207	12.9	23	1.4	150	9.4
9	120	13.3	253	28.1	12	1.3	153	17.0
25	261	10.4	460	18.4	35	1.4	303	12.1
	✓	+ 22]14.0	✓	+4]14.0	✓	+0]14.0	✓	+ 12]14.0

Square	20 23 -57.4 308 -37 proqual. a ✓ A 14308 β	2 50 -62.5 248 -50 proqual. a ✓ A 14265 α	4 50 -27.5 196 -36 4 a ✓ A 14327 α	5 30 -22.5 193 -25 4 a ✓ A 14322 β
1	2 2 A 5695	6	9	5
2	7	6	15 +1]14.0	4
3	6	11	23	4 +1]14.0
4	7	10	26	8
5	5	4	13	2
6	12	15	11	5
7	23 +1]14.0	42	9 +1]14.0	13 +1]14.0
8	7	24	14	12
9	7	14	13 +2]14.0	13
10	19	{32 } Cl. m	8	12
11	20 +1]14.0	57}	6	16
12	7	Cl. p {25 +1]14.0	8	10
13	7 +1]14.0	12	3	8
14	19 2	34 +1]14.0	14	4
15	46 3	35	15	12
16	5	26	16	7 +1]14.0
17	14	28	24	6
18	36	28	40	16
19	42	23	24 +1]14.0	18 +3]14.0
20	56	37	21	11
21	28	54	25 +1]14.0	6 +1]14.0
22	13	54	17	17
23	11	39	29	12
24	10	Cl. {52 +1]14.0	25	9
25	23	100 } Cl. n	21	10
	15.0-18.0	14.5-18.0	14.5-18.0	14.0- [illegible]
	208 13.0	353 22.1	203 12.7	127 7.9
	233 25.9	415 46.1	224 25.4	105 11.7
	441 17.6	968 38.7	427 17.1	232 9.3
	✓ +3]14.0	✓ +3]14.0	✓ +6]14.0	✓ +7]14.0

Y 61 + 11 plates to use

Square	1.3 25 +47.2 70 . +69 4 A 1836 δ c+	15 0 -82.5 274 -22 3 c A 5362 δ	✓ 21 33 -52.5 312 -48 4i, 14896 ~~t~~ b A ~~7497~~ ~~(3)~~ δ	✓ 21 13 -52.5 313 -45 3 b A 14908 δ
1	0	1	6 3 A14908	2
2	0	0	13	6
3	1	0	9 +1]14.0	7
4	0	1	12	5 1 A14896
5	2	0	8	1 10
6	0	0	5	7 11
7	1	0	5	3 6
8	0	0	2 +1]14.0	3 7
9	1	0	1	0 7
10	0	0	12 +1]14.0	3 3
11	0	0	10	3
12	0	0	10	5
13	1	0	4 1	2
14	3	0	13 4	3
15	2	0	7 3	12
16	0	0	4 +1]14.0	4 +1]14.0
17	1	0	24	11
18	2	0	24 +2]14.0	13 2
19	1	0	7	8 4
20	3 +1]14.0	0	22	3 3
21	5	1	31	5 3
22	1 +2]14.0	0	19	7 1
23	1	0	8 2	6
24	0	0	12 2	8
25	7	0	35	13 2
	14.5 - 18.0	15.0 - 16.5	14.0 - 18.0	14.0 - 18.0
	11 0.7	2 0.1	132 8.2	112 7.0
	21 2.3	1 0.1	186 20.6	89 9.9
	32 1.3	3 0.1	318 12.7	201 8.0
	✓ +3]14.0	✓	+6]14.0 ✓	+1]14.0 ✓

	15 0 276 3i	-47.5 -25 c-	22 0 321 3	-40.0 -54 b-	14 30 291 4i	-42.5 +10 c+	14 28 344 4	+17.5 +63 c+
Square	A5360 ε		✓ A14103 γ		A13043 γ		✓ A6763 β	
1	0		3		0		6	+1]14.0
2	0		4		1		3	
3	0		5		0	+1]14.0(A6763)	3	
4	0		10	+2]14.0	0	3	3	
5	0		5	+1]14.0	0		3	
6	0		6	+3]14.0	1		1	+1]14.0
7	0		9		0		19	
8	0		5		0		11	
9	0		2	+1]14.0	1		3	
10	0		3		0		2	
11	0		1		2		3	
12	0		6	+1]14.0	0	1	1	
13	0		2		0	1	2	
14	0		5	+1]14.0	0		7	
15	0		3		0		7	
16	0		8		0		6	
17	2		11		1	+1]14.0	10	
18	1		7		0		8	
19	0		10	+2]14.0	1		1	
20	0		11		1		5	
21	0		7	+2]14.0	0		4	
22	0		9		0		11	
23	0		2	+4]14.0	0		5	
24	1		8		0		4	+1]14.0
25	1		10		1		5	
	16.5-17.5		14.0-17.5		14.5-17.0		14.0-17.5	
	Very poor plate Not worth using		77	4.8	10	0.6	80	5.0
			80	8.9	4	0.4	53	5.9
			157	6.3	14	0.5	133	5.3
			+17]14.0 ✓		+2]14.0 ✓		+3]14.0 ✓	

omitted from card catalogue because it is marked as very poor plate. JM

	10 20 -67.5 257 -9 5 b	6 20 -25 200 -16 4 a	6 30 -22.5 199 -12.5 4i a	✓ 12 0 -25 258 +31 4 b
Square	A ~~5044~~ 5044 d	A14564 β	A14555 β	A14538 β+
1	0	9	(10) Not ex. Overlapped by 14564	10 (Overlapped ½ by 14664)
2	0	17 +3]14.0	(10) ..	21
3	0	12 +1]14.0	(0) 4 (½ overlapped)	6
4	0	16	7 +1]14.0	6 +1]14.0
5	0	9 +3]14.0	0	8 +1]14.0
6	0	5 +1]14.0	5 +1]14.0	9
7	0	(3) 6 (¼ of sq. covered by 14555; not ex.)	2	7
8	0	(1) 2 (½ of sq. covered)	2	5 +1]14.0
9	0	(5) 0 (¾ of sq. ..)	1	6
10	0	(4) 7 +1]14.0 (½ of square covered)	1	8
11	0	(9) 9 +3]14.0 (½ square covered)	4	7
12	0	(0) 11 (½ of sq. covered)	3	8 +2]14.0
13	0	3	1	6
14	0 +1]14.0	10 +2]14.0	5	9
15	2	9 +1]14.0	7 +2]14.0	12
16	0	14 +3]14.0	(20) 3 (½ overlapped)	20
17	0	16	(10) 8 (..)	25
18	0	2	(0) 2 (½ ..)	19 +2]14.0
19	1	13 +1]14.0	7	5
20	0	25 +3]14.0	6	10
21	0	12	2	10
22	0 +1]14.0 (A5044)	7	4	8
23	0 +1]14.0	19 +1]14.0	8	14 +1]14.0
24	0	15 +2]14.0	9 +1]14.0	29 +1]14.0
25	0	21	8	17 +1]14.0
	16.0-17.5	14.0-18.0	14.5-17.5	14.0-18.0
	2 0.1	161 10.1	90 5.6	148 9.2
	1 0.1	141 15.7	66 7.3	137 15.2
	3 0.1	302 12.1	156 6.3	285 11.4
	+3]14.0 ✓	+25]14.0 ✓	+5]14.0 ✓	✓ +10]14.0

	8 30 −22.5	9 0 −20	2 30 −75	0 0 −90
	214 +11	220 +15	262 ~~48~~ −41)	273 −29
	3 b	4i a	4 c+	3i c−
Square	A14519 δ	A14431 β	✓ A14395 α	A14394 ε
1	0	1	5	0
2	0	1	4	0
3	1	1	23	0
4	3	2	8	0
5	0	1	1	0
6	2	2	4	2
7	0	5	7 +1] 14.0	2
8	1	8	12	1
9	2	5	8 +1] 14.0	1
10	5	3	12	1
11	1	4	8	0
12	1	5	3	2
13	0	0	3	3
14	0	2	1	0
15	0	8	3 +1] 14.0	1
16	0	2	15	0
17	0	4	15	0
18	2	2	11	4
19	0	5	26 +1] 14.0	0
20	2	7	10	3
21	0	19	27 +1] 14.0	2
22	3	14	5	3
23	1	17 +1] 14.0	7	0
24	0	10	8 +1] 14.0	2
25	5 +1] 14.0	8	11 +1] 14.0	2 +1] 14.0
	15.0 − 18.0	15.0 − 18.0	14.5 − 18.0	15.0 − 18.0
	16 1.0			
	11 1.2	50 3,1	117 7.3	13 0,8
	27 1.1	86 9,5	120 13.2	16 1,8
	+1] 14.0 ✓	136 5,4 +1] 14.0	237 ✓ 9.5 +7] 14.0	29 1.2 +1] 14.0

Square	120m 5 32 -2.5 173 -16 3+ b A14391	23 16 +7.5 57 -49 no qual. b A14262 γ	6 0 -25 198 -19 4 a A14578 α	6 0 -35 209 -23 4i a A14588 β
1	0	6 +1]14.0	8	10
2	0	8	26	15
3	0	10	48	17
4	0	10	22	16
5	0	4	0 +6 A14564	9
6	0	8	0 +7	28
7	2	5	7	11
8	0	15 +2]14.0	10	35 +2]14.0
9	0	12	4	9
10	0	11 +1]14.0	8	16
11	2	50 +2]14.0 cl.m	15	13
12	0	33 +1]14.0	5 +1]14.0	11
13	1	11	9	17
14	1	17	26	28
15	0	28 +2]14.0	17	48
16	3	15	36	12
17	0	15 +2]14.0	44	36
18	2	12 +1]14.0	22	20
19	0	11	7	29
20	4	19 +2]14.0	19	19
21	0	23 +2]14.0	11 +1]14.0	27
22	2	27 +2]14.0	14 +1]14.0	20
23	1	19 +2]14.0	11	12 +1]14.0
24	0	14	23	64
25	1	36 +6]14.0	14	24
	16.5-17.5	14.0-17.5	14.5-16.8	14.0-18.0
		✓	✓	✓
		238 14.8	254 15.9	295 18.4
		176 19.5	165 18.3	250 27.8
		414 16.6	419 16.8	545 21.8
		+26]14.0	+3]14.0	+3]14.0

with 23 = cl.m

not used - see exp. time

Th.

Square	6 0 −30 ~~394~~ 304 ~~+15~~ −22 unequal. a A14580 α		8 20 −72.5 252 −19 3 a A14626 γ	12 20 −25.0 264 +37 3 b ✓A14627 γ		12 0 −30 259 +31 4 a ✓A14630 β	
1	12		0	1	4 (13A62)	11	
2	12		0	7	+1]14.0	16	
3	7		0	12	also covered by A14634 not yet examined	9	
4	7		0	0		15	
5	5		0			6	
6	7		4		3	10	
7	8		2	5	10 (A14538)	8	
8	7		0	5	3	2	
9	12		1	2	3	1	2 (A14538)
10	17	+1]14.0	0	6		3	9 +1]14.0
11	41		3	4		7	4
12	6		1	1	also partly covered by 14729 not yet examined	2	2
13	3		0	4		2	1
14	3		0	7	4	18	
15	8		5	3	1	12	
16	8		2	1		23	
17	5		1	4		26	
18	20		1	10		30	
19	6		1	2		13	+1]14.0
20	22		3	7		20	+2]14.0
21	11		3	12		18	
22	33		5	18		44	
23	20		0	5		9	
24	2		2	7		20	
25	39		2	9		27	
	15.0-18.0		16.5-18.0	15.5-18.0	not catalogued J.M.	14.0-18.0	
	163	✓ 10.2	18 ✓			163	✓ 10.2
	169	18.8	18 2.0			207	23.0
	332	13.3	36 1.4			370	14.8
	+1]14.0					+4]14.0	

	7 20 -30 211 -5 4 a	7 20 -35 215 -8 4i a-	13 0 -25 276 +36.5 3i c+	8 0 -30 215 +2 4 a
Square	A14631 β	A14640 γ	A14645	A14647
1	2	1	18 (4 A13362)	1
2	6	8	15 1	1
3	3	2	36	1
4	2	2	16	7
5	3	1	8	3
6	2	0	20	1
7	0	0	5 17 (A14744)	2
8	2	1	0 43	5
9	1	0	0 36	2
10	1	1	1 39	2
11	3	1	17	2
12	2	1 2 (A14631)	5 4	4
13	5	0	11 4	0
14	9	2	12 4	5
15	4	0	10 5	3
16	4	2	11 8	3
17	2	5	24 3	1
18	1	4	11	1
19	0	7	15	2
20	1	3	16 15 (14744)	1
21	0	0	4 43	2
22	2	5	28	0
23	4	0	16 6	6
24	4	2	22 1	1
25	2	5	15	1
	15.0-18.0	16.0-18.0	14.5-18.0	14.5-17.5
	60 ✓	✓	✓	✓ many doubtful ✓
	16 1.8	24	350	42 :
	76 3.0	31 3.4 55 2.2	216 24.0 566 22.6	15 : 1.7 57 : 2.3

	11 20 -40 253 +20 3 b	17 0 -25' 325' +8 3 b	17 0 -30 322 +5.5 3 c	19 0 -25 339 -16 3 b
Square	A 14694	A 14696	A 14701	A 14709
1	0	0	0	0
2	2	0	1	0
3	2	0	0	0
4	1	0	0	0
5	0	0	0	0
6	4	0	0	0
7	6	0	0	0
8	3	0	0	1
9	4	0	0	0
10	5	0	0	1
11	8	0	0	1
12	4	0	0	0
13	0	0	0	0
14	1	0	0	0
15	2	0	0	0
16	2	0	0	0
17	1	0	0	0
18	9	0	0	0
19	2	0	2	2
20	1	0	0	0
21	5	1	0	0
22	9	0	0	0
23	3	0	0	1
24	3	0	0	0
25	4	0	0	1
	15.5 - 17.5	16.0	16.0 - 16.5	16.5 - 17.0
	44 ✓	0 ✓	1 ✓	3 ✓
	37 4.1	1 .1	2 .2	4 .4
	81 3.2	1 0	3 .1	7 .3

Square								
	13 20	-22.5	13 40	-25	19 30	-22.0	13 0	-30
	270	+39	188	+33.5	340	-21	275	+31
	4	b	4-	b	3+	b	3+	b
	✓ A14710		✓ A14711		✓ A14712		A14715	
1	0	37 (A14744)	8	4 A6714	0		0	also A14737 not yet examined
2	9	64	5	10	1		9	
3	6	13	5	4	0		27	
4	27		6	1	0		10	
5	8		3		0		3	
6	19		2		1		6	
7	18		4		1		12	
8	27		6		0		14	
9	31		4	2 A3164	0		13	
10	21	+1] 14.0	9		0		24	
11	5	21	13		2		14	
12	0	30 42] 14.0	12		0	1 A14257	71	Cl. n
13	0	41	11	9 A14710	0	1	6	also A14733 not yet examined
14	0	37	5	8	0		7	
15	0	77	3	2 1	1		2	
16	0	60 +1] 14.0	3	3	0		7	
17	0	55	4	2	1		21	
18	8	21	6	3	0		26	
19	12		7	1	0		20	
20	11		10	1 1	2		28	+1] 14.0
21	13		21	1	2		38	
22	4	5	25	2	2		24	
23	0	37 +1] 14.0	9		0		42	Cl. m
24	0	29	5		2		40	Cl. m
25	9	4	22	4	3		28	
	14.5-17.0		14.5-18.0		16.5-18.0		14.5-18.0	
	523	✓	143	✓		—		—
	208	23.1	129	14.3	8		230	
	731	29.2	272	10.9	12	1.3	277	30.8
					20	.8	507	20.3
	+5] 14.0						+1] 14.0	

	13 20 −25	12 30 −22.5°	1 2 −72.9	23 30 −22.6
	281 +36	267 +39	267 −45	13 −73
	4 c	3+ −6	4 c+	3 c−
Square	A14716	A14718	A14207	A14210
1	6	3	S.M.C	6
2	7 1 (A6714)	2 2 (A13362)	..	2
3	29 +1]14.0	13 6	..	3
4	46 Cl. r 3(A12410) 34 (6714) 2 (14711)	6 3	0 ½ SMC	8
5	5 11 (6714) 3 (14711)	7 6 2 (A14645)	4 2 (A7012)	0
6	8 3 (6714)	20 8	9 2 37	7
7	1 3 (..) 2(14711) 5 (14710)	43 11	2 4	5
8	14 ..	57	10	5
9	21 ..	21	3 2	1
10	2 .. also ½ covered by 14744	51 Small clusters	2	4
11	8 (14710)	44	2	3
12		30	3 5	0
13		15	1 1	2
14		25	0 ½ Smc	1
15	8 (A14645)	25 6	Smc	2
16	12 ..	4 1	..	6
17	15 +1]14.0	16 2	..	9
18	25 2(6714)	20 3	..	2
19	44 Cl. as in 4 11(6714) 16 (14710)	22 1	4 ½ Sm.c	7
20	9 4 (6714)	31 1	5 .. 1	8
21	27 (14710)	71 Cl. r	0 ¼ .. 1	4
22	also ½ cov 14744 1 (14710)	57 Small clusters	0 ½ .. 1	2
23		19	2	3
24	6	31 5	Smc	5
25	21 also ¼ on 14744 3 (14710)	24 1	Smc	3
	16.0 − 18.0	14.0 − 18.0	14.0 − 17.5	14.5 − 17.5
	235 ✓	416 ✓	52 ✓	55 ✓
	184 20.4	304 33.8	14 1.6	43 4.8
	419 16.8	720 28.8	66 2.6	98 3.9

covered by other plates: not examined

covered by other plates: not examined

A 14744 not yet examined

+1]14.0

Small mag. Cloud

Square	A14269		A14357		A14621		A14722	
	3 32	-52.4	22 52	-62.5	7 20	-25.0	11 30	-22.5
	251	-43	290	-52	215	-9	250	+33
	?	a	4	a	5	a	5	a
	✓						✓	
1	26	3 (A4179) 19(A3334)	7	1 (A7427)	2		2	
2	124	3 21	19		0		12	
3	101	18	7	3	3		29	
4	117	31	5	1	1		11	
5	49	15	5	1 1	2		8	
6	62	17	5	3	1		14	
7	44	15	14	3 2	0		7	
8	29	10	26	4 3	0		11	
9	8	5	20		0		2	
10	20	4	18	1	1		12	
11	36	2 (A3346)	14		0		11	
12	24	4	8		1		11	
13	26	2 6	11	1	0		4	
14	80	10 11	18	3 5	2		10	
15	111	1 19	12		2		12	
16	67	3	16	1 2	2		18	
17	+1]14.0 198	10 4 27 8	14		3		20	
18	80	13	11	3	1		24	
19	121	26	8	1 3	0		14	
20	51	15	8	1 3	1		28	
21	43	10 2 5	18	4	0		18	
22	25	2 3	14	8	0		20	
23	46	10	18	4	1		20	
24	+1]14.0 120	1 32 2	9	2	0		32	
25	74	24	11	5	0	+1]14.0	17	
	14.0 - 16.0		14.5 - 18.0		15.0 - 18.0		14.0 - 16.0	
	1043 ~~143~~ - ✓		240 ✓		17 ✓		174 ✓	
	952	105.8	145	16.1	6	0.7	193	21.4
	2095	43.8	385	15.4	23	.9	367	14.7

+2]14.0

Square	17 00 331 4 A14724	-27.5 -2 b+	18 20 236 4- A14727	-25 -8 b	✓ 12 30 268 3+ A14729	-27.5 +35 b-	13 10 280 4 A14744	-22.5 +38 c+
1	1		0		2		0	11 (A14645)
2	1		0		7	1(A14733)	30	7
3	0		0		1		23	2
4	0		0		1	1	42	
5	1		0		0	3	19	3 (A14710)
6	3		0		1	1	32	+1] 14.0
7	1		1		4		14	4
8	1		0		6	1 A 13362	13	4 +1] 14.0
9	0		0		6	6	11	3 +1] 14.0
10	0		0		4	2	42	+1] 14.0
11	0		0		covered A14627		42	
12	1		0		..		66	
13	1		0		..		24	
14	1		0		..		49	
15	1		0		4		7	13
16	2		0		4		8	22
17	1		0		6		46	
18	0		0		6	1	61	
19	1		0		4	4	79	
20	3		0		4	3	30	
21	1		2		4	2	35	
22	2		0		2	almost totally covered by A14627	56	
23	1		3		1	..	94	
24	0		2		1		49	
25	3		1		6	1	87	
	16.0 - 18.0		16.5 - 17.5		15.0 - 18.0		14.0 - 18.0	
	14		1		55		496	
	11	1.2	8	0.9	45	5	537	59.7
	25	1.0	9	.4	100	4	1033	41.3
		✓		✓		✓	+4]14.0	✓

Square	19 20 -25 341 -19 4- C+ A14731		19 0 -30 335 -17 3+ b A14759		22 30 -22.5 2 -60 ✓ 3+ c A14809		22 20 -20.0 307 -58 ✓ b A14904	
1	0		0		0	23 (A14904)	2	2 A14947
2	0		4		0	13	9	2 A14907
3	0		2		0	23	3	
4	1		5		3	3	0	10
5	0		1		8		0	13
6	1		1		16		11	10 +1]14.0
7	0	1 A14712	1		8		27	
8	0		3		11		10	
9	2		0		10		14	8 A14809
10	1		1		9		7	6
11	1		0		17		9	
12	3		0		10		10	
13	1		1		3		0	
14	2		2		5		6	2
15	2		8		13	4	4	2
16	1		4		0	9	5	1.0
17	2		14		10	11	11	
18	1		10		9	9	4	2
19	1		1		24		11	2
20	1		6		25		14	~~8 A14809~~
21	0		2		11		10	6
22	0		2		15		10	
23	2		2		11 +1]14.0		24	
24	6		6		11	5	20 +1]14.0	
25	5		3		11	2	13	
	16.5-18.0		17.0-18.0		14.5-18.0		15.0-18.0	
	16		33		188		182	
	18	2	51	5.7	135	15.0	126	14.0
	34	1.4	84	3.4	323	12.9	308	12.3
		✓		✓	+1]14.0	✓		✓

Squares	1 0 -25:0 149 -87 ✓ 4 C- A14892		22 30 -27.5 251 -61 ✓ 3+ a A14907		23 52 -22.5 20 -78 ✓ 3 Ct A14944		22 0 -20:0 35.5 -5.5 3+ c ✓ A14947	
1	21	4(A3386)	3		6	1(A14880)	5	
2	35		5		12	5	1	
3	20		9		9	6	6	
4	7		2		1	5	3	
5	7		2		0		2	
6	11		7		1	2	16	
7	15	4(A14323)	8		4		4	
8	0	17	13		4		6	
9	0	10	5		3		3	
10	0	16	7	8(A14954)	5		6	
11	0	23	5	24	9		10	
12	5	8	1	28	5		10	
13	4	1	0	11	5		1	
14	26	2	3	3	4		1	
15	9		6	1	8		8	
16	18	1	5		12		1	
17	16	1	8		25	1	7	
18	12		6		9	3	3	
19	9		12		5	1	2	
20	15	5	21		10	1	9	
21	0	20	17		8		10	
22	0	16	12	+1]14.0	9		3	
23	5	2	6		6		5	
24	3		13		13	1	3	
25	10	1	22		10	2	2	
			15:0-18.0		16.0-18.0		15:0-18.0	
	964		156		107		83	
	115	12.8	117	13.0	104	11.6	44	4.9
	379	15.2 ✓	273	10.9 ✓	211	8.4 ✓	127	5.1 ✓

1932phae.proj.234B

Square	22 30 −32.5 342 −62 3 a ✓ A14961		5 10 −22.5 191 −29 a A14976		3 10 −37.5 206 −57 3 a ✓ A15033	
1	5		0	4 (A14327)	22	
2	3		1	1	9	
3	5		14		11	
4	7		15	1 (A14323)	14	
5	2		2	3	13	
6	4		4	6	9	
7	6		3	7	22	+2]14.0
8	3		9	6	20	+1]14.0
9	14		0	3	8	5
10	7		10	1	10	6
11	3		13		11	4
12	9		11		12	
13	13		9		4	
14	24		16		8	
15	6		4		19	
16	3		2		14	
17	5		10		7	
18	6		18		28	
19	6		8	6	18	
20	7		2	2	12	
21	3		12	2	15	
22	7		11		11	
23	19		10		38	
24	3		10		11	
25	5		6		17	
	15.0-18.0		15.0-18.0		14.5-18.0	
	114		145		221	
	61	6.6	95	10.6	157	17.4
	175	7.0	240	9.6	378	15.1
	✓		✓		✓	

Pencil figures indicate total nebulae per square degree which are numbered on plates listed at the head of columns, irrespective of whether they are shown on other plates or not.

Blue crayon figures indicate regions not numbered on original plates. Therefore, counts were made from overlapping regions of the secondary plates.

B.E. Hodam

7-15-32

Square					-10.0 -31 88		23 20 0 52 -56 ✓ A 15781	
1							6	
2							8	
3							15.	
4							15	
5							8+1] 14.0	
6							15	
7							12	
8							8	
9							3	
10							15	
11							6	
12							11	
13							0	
14							15	
15							12+1] 14.0	
16							9	
17							15	
18							25	
19							13	
20					10		12 +1] 14.0	
21	36		60		14		19	
22	13	0	41		10 +1] 14.0		7	
23	14		36		11		37 + 1] 14.0	
24	19		19 +1] 14.0		19		22	
25	17		26 + 1] 14.0		7+1] 14.0		9	
mag. limits:	(18.0, 17.7)							
	298 (14 squares)		464		109		158	
	198	22.0	425	47.2	119	13.2	159	17.7
	496 (23 squares)	21.6	889	35.6	228	9.1	317	12.7
	+2] 14.0	✓	+3]14.0	✓	✓ +2]14.0		✓ +4]14.0	

70 Prt.

Square	14 00° -25.0 292 +34 ✓ A 14807		0 00 -35. 321 -79 ✓ A 14992	20 40 -10.0 5 -31 ✓ A 15788	23 20 0 52 -56 ✓ A 15781
1	46		16	1	6
2	29	1 (A14797)	40	14	8
3	42+1]14.0	2	23	22	15
4	7	26	23	9	15
5		21	8	7	8+1]14.0
6		19	39	5	15
7	3	4	33	11	12
8	7		21	4	8
9	4		20	2	3
10	15		12	3	15
11	17		28	1	6
12	20		28+1]14.0	6	11
13	19		34	0	0
14	37		34	7	15
15	25+1]14.0		69	14	12+1]14.0
16	26		36	9	9
17	38		65	15	15
18	31		67	15	25
19	7	14	34	18	13
20	23		77	10	12+1]14.0
21	36		60	14	19
22	18	0	41	10+1]14.0	7
23	14		36	11	37+1]14.0
24	19		19+1]14.0	19	22
25	17		26+1]14.0	7+1]14.0	9
mag. limits:	(]18.0, 17.7)				
	298 (14 squares)		464	109	158
	198	22.0	425 47.2	119 13.2	159 17.7
	496 (23 squares)	21.6	889 35.6	228 9.1	317 12.7
	+2]14.0	✓	+3]14.0 ✓	✓ +2]14.0	✓ +4]14.0

1932phae.proj.2343H

	~~3 12 −52.5 230 −52~~	3 12 −52.5 230 −52	4 50 −22.5 190 −33	3 20 −35 202 −56
Square	~~A 14272~~	✓ A 14272	✓ A 14989	✓ A 14963
1	~~43+1]14.0 3 (A4119)~~	46 + 1] 14.0	20	20 (A15033)
2	~~67 9+1]14.0~~	76 + 1] 14.0	37	6
3	~~37 4~~	41	51	19 + 4] 14.0
4	~~85 4 5 (A3339)~~	104 24 (A14269)	61	4 3 + 1] 14.0
5		120	27	5
6		261 + 2] 14.0	72	18 + 1] 14.0
7		219 + 3] 14.0	82	8 + 3] 14.0
8		85 + 4] 14.0	79	5 + 1] 14.0
9		45 + 1] 14.0	65	6
10	~~9 + 1] 14.0 1~~ 5 (A3346)	15 + 1] 14.0 16	78 + 1] 14.0	6
11	~~31 + 1] 14.0 2~~ 18	57 + 1] 14.0	126	4
12	~~27 2~~	34	57	11
13		22	20	0
14		45	70	5
15		51 + 2] 14.0	15	6
16		55	26	18
17		83 + 1] 14.0	76	18
18		68	65	25 + 1] 14.0
19		56 48	112	2 5 + 1] 14.0
20		58	35	10 1
21		33	42	8 3
22		29 + 1] 14.0 89	110	16 + 1] 14.0 2
23		74	27	6
24		62	52	9
25		39 73	89	12
		(18.0, 17.2)		(17.1, 17.2)
		1300	836	144
		712 79.1	608 67.5	117 13.0
		2012 80.5	1444 57.8	261 10.4
		+18] 14.0 ✓	+1] 14.0 ✓	+13] 14.0 ✓

	23 14	−73.0	16 53	+17.2	13 21	−46.8	12 18	−67.8
	279	−44	4	+31	277	+15	267	−6
Square	A-12233		A 6454		A 12373		A 4401	
1	1		1		1		0	
2	6		1		3		0	
3	2		3		5		0	
4	0		2		3		0	
5	0		1		2		1	
6	0		5		4		0	
7	3		1		3		0	
8	0		1		2		0	
9	0		1		2		2	
10	3		0		2 +]14		0	
11	4		0		4		1	
12	2		1		9		0	
13	2		0		2		0	
14	4		1		5		1	
15	5		0		4		0	
16	2		0		2		1	
17	0		3		2		0	
18	6		2		2+1]14.0		0	
19	1		1		4+1]14.0		0	
20	3		4		7+2]14.0		0	
21	1		4		1		0	
22	4		7		2		0	
23	8		3		1		0	
24	4		1		11		0	
25	0		0		0		0	
	34		18		53		6	
	27	3.0	25	2.8	30	3.2	0	0.0
	61	2.4	43	1.7	83	3.3	6	0.2
		✓		✓	+4]14.0	✓		✓

1932phae.proj.234S

	21 00	−25.0	23 40	−5.0	0 50	−80.0	17 10	−27.5
	350	−41	55	−62	269	−38	322	+9
Square	✓ A 14859		✓ A 15792		A 12243		A 14802	
1	5		4+1]14.0		2		0	
2	7		21		7		0	
3	11		23		5		0	
4	22		17		6		0	
5	13		4		3		0	
6	21		12		3		0	
7	14		10		2		1	
8	26		34		0		0 + 1] 14.0	
9	30		24		0		1	
10	29		39		1		0	
11	23		8		2		0	
12	14		9		5		0	
13	9		2		4		0	
14	11		14		6		0	
15	8		18		5		0	
16	3		6		2		0	
17	13		22		4		0	
18	51		38		5		0	
19	58		17		2+1]14.0		0	
20	30		18		3		1	
21	30		30		6		0 + 1] 14.0	
22	32		12		4		0	
23	33		27		6		0 +1] 14.0	
24	18		37		7		0	
25	34		15		2		0	
	246		245		53		2	
	299	33.2	216	25.1	39	4.3	1	0.1
	545	21.8	461	18.4	92	3.7	3	0.1
		✓	+1]14.0	✓	+1]14.0	✓	+3]14.0	✓

Square	A 14753		A 14705		A 14533		✓ A 14720	
	1940 343	-25.0 -24	1700 318	-35 +2	9 10 220	-22.5 +18	10 20 235	-25 +27.5
1	0		0		1		9	
2	0		2		1		15	
3	1		1		5		16	
4	1		0 + 1]14.0		5		20	
5	2		0		5		13	
6	0		1		4+1]14.0		16	
7	4		2		7		1	
8	2		0		3		4	
9	2		0		2		3	
10	0	1 (A14712)	2		1		9	
11		0	0		5		8	
12		0	0		4		10	
13		0	1		3		9	
14		0	0		2		10	
15		0	0		3		14	
16	0	0	2		1		12	
17	1		3		5		21	
18	0		2		5+1]14.0		42	
19	2		0		13+1]14.0		33	
20	0	0	1		2		24	
21	0	0	2		2		19	
22	4	0	0		3+1]14.0		13	
23		0	0		4		12	
24		1	0		3		7	
25	3	0	0		6		14	
	13		11		52		169	
	11	1.2	8	0.9	43	4.8	185	20.6
	24	1.0	19	0.8	95	3.8	354	14.2
	✓		+1]14.0	✓	+4]14.0	✓		✓

1932phae.proj.234B

14 10 −27.5 3 32 −47.5 18 35 −29.5 19 10 −22.5
293 +30 222 −52 333 −12 343 −17

Square	✓A 14797		✓A 14280		A 14240		A 14880	
1	9		20 + 1] 14.0		2		1	
2	17		22		0		4	
3	7		31		0		6	
4	7		14		0		7	
5	7		7 + 1] 14.0		0		1	
6	9		11		1		7	
7	8		25		1		6	
8	16		19		1		1	
9	15		18		1		1	
10	20		29		2		4	
11	18		46		2		4	
12	8	1 (A14807)	16		4		4	
13		23	11		1		4	
14		48	13		2		10	
15	6	11	15		1		6	
16	16		20		1		5	
17	29		25 + 1] 14.0		0		2	
18	10		28		1		14	
19	7		16		0		13	
20	23	1	18		1		7	
21	14		30		0		8	
22	64		31 + 1] 14.0		3		3	
23	26	1	30		3		3	
24	20		30		1		6	
25	38		16		4		8	
	[14807 = 18.0 14797 = 17.7] plate limits							
	246		317		19		71	
	233	25.9	224	24.9	13	1.4	64	7.1
	479	19.2	541	21.6	32	1.3	135	5.4
		✓	+ 4] 14.0			✓		✓

Square	A 14890		A 14894		A 14881		A 14920	
	19 52	-47.4	20 00	-30	19 40	-30	19 12	-27.5
	320	-32	339	-30	338	-36	338	-18
1	3		11 0 (A14881)		0 6 (A14894)		3	
2	4		10		1		7	
3	7		2		2		7	
4	2		3		0		12	
5	9		2		0 6(A14894)		4	
6	13 + 3] 14.0		3		7		5	
7	12		1		1		4	
8	17		4		9		3	
9	3		4		0		1	
10	16		6		4		7	
11	12		7		16		2	
12	8		2		5		3	
13	0		0 0		1		1	
14	5		0 8		1		3	
15	2		0 3		1		4	
16	7		0 7		1		7	
17	7		8		2		7	
18	15		5		6		12	
19	18		3		14		6	
20	7		14		1		6	
21	6		9		4		3	
22	15		7		1		10	
23	2		8		5		8	
24	11		5		6		9	
25	18		11		2		6	
	120		73		55		73	
	99	11.0	70	7.7	41	4.6	67	7.4
	219	8.8	143	5.7	96	3.8	140	5.6
	+3] 14.0	✓		✓		✓		✓

21 30	-55.0	18 53	-37.4	18 53	-27.5	5 00	-25.0
309	-46	328	-18	338	-15	193	-32

Square	A14942			A14951		A14965		A14994	
1		2 (A9068)		0		0		5	
2		2		2		0	5 (A14759)	11	
3		3		2			2	11	
4		0	16 (A7498)	5			3	15	
5			9	0			2	11	
6			22+1]14.0	2			1	24	
7	6		10	1		6		7	6 (A14976)
8	1	12 (A 14596)		3		8			14
9		7		0		3			10
10		17		0		4		10	7
11		26		2		3		39	1
12		16		0		2		21	
13			8 (A14908)	0		4		6	
14			8	1		7		6	
15	2	1	(A14908)	0		3		7	
16		6		0		2		6	
		16							
17		5		2		0	1	23 + 1]14.0	
18		16		3			0	23	
19		0	4	5			0	14	
20	9	6		2		3		23	
21	6 + 1]14.0	3		2 + 4]14.0		1		26	
22	3	3	1	0		3		15	
23		10		1		8		40	
24	2	20		0		2		55	
25		10		1		3		39	
				18		55		217	
	174			16	1.8	21	2.3	258	28.6
	98		109	34	1.4	76	3.0	475	17.0
	272		10.9	✓ +4]14.0		✓			+1]14.0 ✓
	✓ +2]14.0								

[9068 = 18.1
14596 = 19.5
14908 = 18.5] plate limits

	5 30	-27.5	17 03	-14.0	3 20	-30.0	3 30	-27.5
	198	-27	336	+14	193	-55	189	-52
						Baker		Baker
Square	A15015		A14215		A14956		A14967	
1	15		0		2		1	
2	22		0		2		19	
3	30		0		9		20	
4	20		0		4+1] 14.0		7	
5	13		0		4		1+1] 14.0	
6	19		0		6		8	
7	30		0		18		9	
8	55		0		30		7	
9	45		0		12		10	
10	36		0		19		19	
11	31		1		17		12+1] 14.0	
12	28		0		7+1] 14.0		7	
13	4		0		8		9	
14	18		0		14		21	
15	27		0		7		7	
16	22		0		8		16	
17	40		0		16		34	
18	57		0		18		14	
19	50		0		3+1] 14.0		18	
20	53		0		9		8	
21	39		0		6		4	
22	56		0		2		6	
23	40		0		17		10	
24	23		0		9		18	
25	65		0		18		8+1] 14.0	
	415		1		167		173	
	423	49.2	0	0.0	98	10.9	120	13.3
	838	33.5	1	0.0	265	10.6	293	11.7
		✓		✓	+3] 14.0	✓	✓ +3] 14.0	

Square	A14960 Baker		A14949 Baker		A14953 Baker		A15392		
	3 30	-27.5	3 20	-25	3 00	-30.0	2005		-48
	189 ?	-52	185	-55	192	-59.5	320		-35
	Most neb. on this plate duplicates of 14967								
1	2		10		3		6		
2	14		13		4		1		
3	21		7		4		5		
4	9		12		7		0		
5	2		5		2		6		
6	12		13+1]14.0		5		10		
7	9		7		8		9		
8	7		14		9		6		
9	11		11		17		2		
10	20		6		10		17		
11	10+2]14.0		6		11		8	8	(A14890)
12	7		3		1			15	
13	7		6		2			17	
14	19		12		5			11	
15	5		7		5			10	
16	10		6+1]14.0		5		2	6	✓
17	35		10+1]14.0		2		1	6	✓
18	13		12		4		7	4	✓
19	21		9		13		4		
20	10		4		2			16+1]14.0	
21	3		6		4		7	12+3]14.0	✓
22	4		4		7		10		
23	12		8		9			15	
24	15		12		7		4	3	
25	12+1]14.0		8		8		8		
	165 short exp.		138		98		139		
	175	13.9	73	8.1	56	6.2	97		10.8
	290	11.6	211	8.4	154	6.2	246		9.8
	+3]14.0 ✓		+3]14.0 ✓			✓	+4]14.0		✓

	17 12	-32.3	15 51	-57.5	9 25	-57.5	20 10	-22.5
	321	+2	294	-4	245	-5	348	-30
Square	A 15337		A 15 373		A 15182		A 15425	
1	0		0		0		0	
2	0		0		2		2	
3	0		0		2		3	
4	0		0		1		3	
5	0		1		1		0 + 1] 14.0	
6	1		1		3		7	
7	0		2		4		5	
8	2		0		1		28	
9	1		0		0		7	
10	0		0		3		5	
11	0		0		1		6	
12	0		0		1		1	
13	0		0		0		4	
14	0		2		2		12 + 1] 14.0	
15	0		2		3		4	
16	0		2		2		0	
17	0		0		0		6	
18	0		0		1		6	
19	0		0		1		3	
20	0		0		0		3	
21	0		0		3		7	
22	0		0		1		10	
23	0		2		2		5	
24	0		0		1		7	
25	0		0		2		5	
	4		10		26		87	
	0	0.0	2	0.2	11	1.2	52	5.8
	4	0.2	12	0.5	37	1.5	139	5.6
		✓		✓		✓		✓ +2] 14.0

	15 10	−27.5	15 30	−27.5	16 20	+17.5	19 50	−27.5
	307	+24	310	+21	1	+38	341	−27

Square	A 15463		A 15472		A 15668		A 15681	
1	1		3		3		8	(A 14881)
2	3		0		4		1	
3	0		2		7		7	
4	2		1		6		5	(A 14894)
5	1		1		8		12	
6	3		0		2		6	
7	2		1		5		1	
8	4		3		7			(A 13087)
9	1		1		9			
10	6		1		7			
11	0		0		5		1	(A 14753)
12	0		2		5		1	
13	1		1		0		5	
14	2		0		0		1	
15	9		0		3		5	
16	2		1		1		15	
17	5		0		4		1	3
18	0		2		3		2	1
19	8		2		9		2	1
20	3		2		3		5	2
21	6		2		1		2	
22	3		0		7		3	
23	5		3		6		1	2
24	2		1		9		1	0
25	3		4		8		0	0
	37		17		72		68	(13 square degrees
	35	3.9	16	1.8	50	5.6	26	(9 " ")
	72	2.9	33	1.3	122	4.9	94	2.9 4.3

1932phae.proj..234G

	22 40	0.0	4 30	-5.0	20 47.4	+30.9	4 40	-10
	39	-49	168	-31	41	-9	175	-31
Square	A15780		A15791		A15798		A15800	
1	1		13		1		14	
2	6		18		0		22	
3	12		16		1		10	
4	2		10		3		11	
5	5		8		1		2	
6	5		6		0		17	
7	7		24		0		21	
8	24		11		0		11	
9	5		9+1]14.0		0		8	
10	7		20		0		28	
11	7		19		0		39	
12	6		12		0		27	
13	6		9		0		13	
14	12		16		0		9	
15	5		16		0		22	
16	9		32		0		13	
17	30		29		0		37	
18	5		33		1		17	
19	7		11		3		25	
20	20		44		2+1]14.0		19	
21	14		29		1		20	
22	7		27		2+2]14.0		34	
23	11		24		0		41	
24	10		27		3		47	
25	15		26		1		25	
	119		239		6		267	
	119	13.2	250	27.9 ~~2.8~~	13	1.4	265	29.4
	238	9.5	489	19.6	19	0.8	532	21.3
		✓	✓+1]14.0		+3✓]14.0			✓

	0 00	0	4 50	-5.0	7 20	-10.0	3 20	0.0
	69	-61	168	-31	193	+4	150	-43
Square	A15802		A15804		A15821		A15830	
1	14		25		0		20	
2	11		26		0		19	
3	29		28		1		14	
4	14		30		4		6	
5	10		4		0		4	
6	26		25		0		14	
7	29		25		0		27	
8	39		24		3		20	
9	30		18		0		9	
10	16		23		3		18	
11	21		45		0		7	
12	27		40		0		11	
13	5		13		0		4	
14	12		20		4		20	
15	34		32		4+□14.0		14	
16	12		16		1		22	
17	20		38		0		20	
18	33		30		0		31	
19	25		50		1		25	
20	27		26		1		11	
21	32		40		2		19	
22	31		29		0		6	
23	60		39		3		17	
24	27		39		2		9	
25	26		23		3		4	
	329		394		20		229	
	281	31.2	304	33.8	12	1.3	142	15.8 ~~1.6~~
	610	24.4	698	24.0	32	1.3	371	14.8
	✓		✓		✓ +□14.0			

	3 20	-10	4 20	-15	4 00	0.0	1 20	0.0
	162	-48	177	-37	158	-34	111	-61
Square	A15837		A15840		A15842		A15854	
1	2		6		2		22 + 1]14.0	
2	5		20		6		45	
3	4		22		8 + 1]14.0		93	
4	4		10		11		55	
5	0		3		1		20	
6	3		18		3		42	
7	15		19		3		31	
8	5		29		3		27	
9	2		72		9		14	
10	2		36		7		32	
11	0		11		3		63	
12	4		15		1		34	
13	7		15		0		21	
14	1		19		8		54	
15	3		19		3		74	
16	7		18		4		44	
17	11		25		5		74	
18	5		26		6		48	
19	5		22		16		36	
20	12		29		3		64 + 1]14.0	
21	3		12		3		58	
22	3		36		5		20	
23	1		17		8		57	
24	4		17		2		89	
25	2		24		9		33	
	64		332		72		671	
	46	5.1	208	23.1	57	6.3	479	53.2
	110	4.4	540	21.6	129	5.2	1150	46.0
								+ 2]14.0
		✓		✓		+ 1]14.0 ✓		✓

	6 30	-47.5	10 00	0.0	10 00	-10	10 00	+20
	223	-21	210	+42	219	+36	184	+52
Square	A15874		A15934		A15938		A15941	
1	5		14		15		5	
2	2		24		20		8	
3	8		32		26		9	
4	12		30		28		8	
5	4		14		7		4	
6	2		36		20		10	
7	4		26		10		4	
8	7		18		4		2	
9	4		10		8		2	
10	11		30		7		3.	
11	2		20		9		4	
12	2		28		14+] 14.0		9	
13	2		42		6		6	
14	3		59		5		9	
15	7		56		15		12	
16	6		18.		32		9	
17	12		62		24		17	
18	8		49		27		6	
19	7		72		18		8	
20	9		71		19		19	
21	12		29		7		8	
22	13		70		15		9	
23	8		36		15		20	
24	4		40		15		7	
25	19		27		12		7	
	81		457		226		104	
	92	10.2	456	50.7	152	16.9	101	11.1
	173	6.9	913	36.5	378	15.1	205	8.2
	✓		✓		✓		✓	

	22 00	−70	3 30	−22.5	0 0	−27.8	20 12	−52.4
	288	−42			359	−81	314	−35
Square	A 15443		~~A 13083~~		~~A 12546~~		A 14883	
1	1		~~0~~		~~18~~		10	
2	8		~~1~~		~~29~~		19	
3	12		~~2~~		~~9~~		5	
4	2		~~0~~		~~17~~		7	
5	2		~~0~~		~~10~~		8	
6	3		~~2~~		~~9~~		15+1]14.0	
7	4		~~2~~		~~8~~		31	
8	4		~~0~~		~~8~~		10	
9	1		~~0~~		~~6~~		6	
10	6		~~0~~		~~11 + 1] 14.0~~		25+1]14.0	
11	2		~~0~~		~~8~~		8	
12	2		~~0~~		~~7~~		8	
13	1		~~0~~		~~5~~		4	
14	0		~~2~~		~~5~~		8	
15	5		~~3~~		~~13~~		13	
16	8		~~1~~		~~13~~		18	
17	11		~~1~~		~~17~~		27	
18	4		~~3~~		~~22~~		28+1]14.0	
19	5		~~1~~		~~6~~		26	
20	20		~~1~~		~~32~~		13	
21	12		~~1~~		~~19~~		46+1]14.0	
22	4		~~2~~		~~14~~		26	
23	10		~~2~~		~~8~~		12	
24	0		~~0~~		~~11~~		8	
25	2		~~0~~		~~11~~		20	
	61				Previously		195	
	68	7.5			counted.		206	23.0
	129	5.2					401	16.0
		↓					✓	+4]14.0

Square	A 14 268	A14874	A14229	A 14870
	23 22 −62.5 285 −53	18 52 −57.6 306 −25	20 00 −60 305 −34	20 30 −22.5 351 −34
1	(A14357) ✓	0	9	4+1]14.0
2	15	1	12	3
3	28+1]14.0	0	12	10
4	22	1	18	4
5	8	2	2	4
6	13	3	5	6
7	13	6	14	2
8	14	5+2]14.0	8	5
9	4	0	5	9
10	7	4	10	20
11	8	6	10+1]14.0	9
12	14 ✓	3	7	11
13	✓	1	4	6
14	✓	0	13	10
15	✓	7	10	7
16	✓	3	5	1
17	16 ✓	2	20+1]14.0	10
18	23	1	18+3]14.0	2
19	20	4	21	6
20	14 ✓	4+1]14.0	10	17
21	24	4+1]14.0	14	5
22	27	2	17+1]14.0	10
23	13 ✓	7	22+2]14.0	8
24	22	6	19	8
25	20	6+2]14.0	15	6
	e 1° 3/12			
	146 (12 square deg.)	43	144	111
	179 (9 " ")	36 4.0	156 17.3	72 8
	325 (21) 19.9 15.4	79 3.2	300 12.0	183 7.3
	+1]14.0 ✓	+6]14.0 ✓	✓ 8]14.0	✓ +1]14.0

	12 50	-7.5	12 46	-12.0	13 10	-14.0	10 27	-7.2
	275	+54	275	+49	281	+47	225	+44
Square	A 14689		A 14703		A 14707		A 15243	
1	16		18		20+3]14.0		15	
2	23		27		25		10	
3	22+1]14.0		20+4]14.0		36		12	
4	16+1]14.0		11+2]14.0		15		12	
5	25		15		13		7	
6	29+3]14.0		24		21		18	
7	29		23		15		10	
8	10		8		17		12	
9	11+2]14.0		8		22		10	
10	9+1]14.0		52+6]14.0		20+1]14.0		19	
11	28+3]14.0		74+1]14.0		22+4]14.0		17	
12	17+1]14.0		28		16+5]14.0		13	
13	13		27+4]14.0		27		8	
14	21		34+4]14.0		11		7	
15	34		26+1]14.0		39+2]14.0		15	
16	22+1]14.0		21+1]14.0		20+3]14.0		10	
17	22+2]14.0		37		18+2]14.0		7	
18	25+1]14.0		50		19+1]14.0		12	
19	17+1]14.0		57+2]14.0		18		9	
20	33+2]14.0		70+5]14.0		33+1]14.0		8	
21	30+2]14.0		57+2]14.0		26		12	
22	36		51		17		10	
23	29+1]14.0		54+2]14.0		44		12	
24	46+6]14.0		31+3]14.0		20+1]14.0		12	
25	27+3]14.0		28+1]14.0		21+1]14.0		20	
	325		416		339		195	
	265	29.4	435	48.3	216	24.0	102	11.3
	590	23.6	851	34.0	555	22.2	297	11.9 ✓
	+31]14.0 ✓		+38]14.0 ✓		+24]14.0 ✓			

14 7 305	−7.3 +48	14 48 316	−7.0 +42	14 27 311	−7.3 +45	12 59 278	−7.3 +54

Square	A 15422		A15365		A 15367	A 15299	
1	7		2		7	9	
2	6		1		8	9	
3	6		6		7	10	
4	22		5		7+1]14.0	9	
5	6		1	0 (A15367)	1	10	
6	8		8	1	5	10	
7	18		1	0	4	11	
8	34		3	5	11	5	
9	11		1	0	1	5	
10	14		3		9	5+1]14.0	
11	17		0		3	8	
12	6		5		1	9	
13	4		3		6	2	
14	12		8		9	13	
15	11		4		14	9	
16	4		3		10	5	
17	5+1]14.0		11		11	18+1]14.0	
18	7		5		14	11	
19	34		4		5	18	
20	12		3+1]14.0		9	10+1]14.0	
21	14		0		11	15+1]14.0	
22	30		3		3	19+1]14.0	
23	27		4		14	11	
24	12		0		9	4	
25	22		2		14	5	
	186		60		103	129	
	163	18.1	32	3.5	90	111	12.2
	349	14.0	92	3.7	193	240	9.6
	+1]14.0 ✓		+1]14.0 ✓		+1]14.0 ✓	+5]14.0 ✓	

(In the A 15367 column, 10.0 and 7.7 are written at the right of the 90 and 193 rows.)

Square	A 15291		A 15447		A 15439		A 15431	
	12 29 265	-7.2 +55	11 48 249	-7.0 +52	11 27 242	-7.0 +51	11 08 255	-7.0 +48
1	13		15		26+□14.0		23	
2	21		12		31		38	
3	23		31		22		44	
4	21		30		29		25	
5	17		15		33+□14.0		29	
6	11		21		13		28	
7	26		17		20		20	
8	11		27		18		18	
9	5		13		6+□14.0		20	
10	15		10		29		20	
11	21		24		48+□14.0		19	
12	17		19		55		15	
13	12		3		20		7	
14	11		8		28		30	
15	33		26		27		35	
16	31+□14.0		27		26		37	
17	22		40		31		19	
18	23		15		29		30	
19	22		21		32		33	
20	16		18		34		21	
21	18		21		28		25	
22	34+□14.0		15		28		35	
23	31		24		47		28	
24	22		9		27		20	
25	14		18		37		12	
	288		298		431		408	
	202	21.3	181	20.1	293	32.5	223	23.5
	490	19.6	479	19.2	724	29.0	631	25.2
		+2□14.0 ✓		✓		+4□14.0 ✓		✓

10 48 -7.0 13 30 -7.5 12 25 -2.0 12 52 +2.5
229 +45 291 +52 261 +60 277 +65

Square	A 15413		A 15521		A 15258		A 15280	
1	15		3		10+]14.0		11	
2	34		9		3		20	
3	22		4		6		11	
4	31		4		3		9+]14.0	
5	15		2		2		8	
6	19		6		3		12	
7	17		10		10		3+]14.0	
8	20		1		8		10	
9	21		2		4		2	
10	23		9		10		5	
11	29		3		15		2	
12	31		5		10		2	
13	13		6		11 +]14.0		2	
14	19		3		11		5	
15	21		4		19		11	
16	48		3		11		15	
17	69		6		7		20	
18	43		5		12		18+]14.0	
19	27		5		11		24	
20	52		11		15		8	
21	60		7		10		14+]14.0	
22	41		3		15		19	
23	26		10		12 +]14.0		7	
24	17		22		11		17	
25	45		6		10		10	
	378		74		136		128	
	380	42.2	75	8.3	103	11.4	137	15.2
	758	30.3	149	6.0	239	9.6	265	10.6
	✓		✓		+, 3]14.0 ✓		+4]14.0 ✓	

Identical with 15312, No card for this count. gm

Square	A 15289		A15251		A15295		A 15296	
	12 42	-2.2	12 4	+2.7	13 00	-2.2	13 38	-14.5
	272	+59	249	+63	280	+58	291	+45
	13		17		2		1	
1	5+□14.0		10		11		11	
2	6		3		15		7	
3	7		9		4		4	
4	18		7		7		5	
5	12		11		14		10	
6	9		48		15		10	
7	12		21		13		6	
8	14		6		9		7	
9	14		3		8		6	
10	12		8		12		5	
11	10		6		5		3	
12	11		4		3		4	
13	11		6		23		6	
14	15		7		14		12	
15	18		6		14		8	
16								
17	18		19		7		7	
18	19		9		11		7	
19	17		13		4		8	
20	15		13		7		11	
21	12		8		14		12	
22	9		8		29		10	
23	10		6		16		6	
24	16		13		10		14	
25	7		9		13		2	
	187		172		169		105	
	123	13.7	98	10.9	111	12.3	77	8.6
	310	12.4	270	10.8	280	11.2	182	7.3
	✓ + □14.0		✓		✓		✓	

13 07 -17.2 13 28 +2.8 12 27.5 +22.9 12 47 +17.9
280 +44 298 +62 233 +83 282 +79

Square	A 15357		A 15359		A 15361		A 15363	
1	10		9		4		22	
2	6		13		4		14	
3	15		5		4		13	
4	6		5		3		11	
5	6		3		9		7	
6	9		6		7		7	
7	6		6		5		10	
8	10		11		6		10	
9	6		4		11		2	
10	4		6		6		5+ □14.0	
11	8		3		9		7	
12	4		9		1		7	
13	6		2		4		10	
14	8		8		11		23	
15	11		21		5		16	
16	29		8		5		14	
17	12		18		3		9	
18	15		12		4		15	
19	10		4		9		10	
20	7		14		1		8	
21	13		9		4		4	
22	7		14		5		14	
23	9		5		5		12	
24	6		5		9		11	
25	11		3		4		5	
	144		119		94		178	
	90	10.0	84	9.3	44	4.9	88	9.8
	234	9.4	203	8.1	138	5.5	266	10.6
		✓		✓		✓	✓	+ □14.0

	12 08	-22.0	11 50	+2.5	12 30	+27.5	12 7	+7.7
			242	+62	N.G.P.		250	+68
Square	A 15454		A 15445		A 15449		A 15389	
1	4		6		4		51+1]14.0	
2	13		5		18		43	
3	10		12		44		33	
4	7		22		30		9	
5	8		10		11		15	
6	6		16		20		12	
7	5		3		15		23	
8	19		7		25		21	
9	7		3		13		15	
10	12		10		11		39	
11	9		5		5		44	
12	8		13		20		59	
13	1		8		17		39+1]14.0	
14	11		26		18		36	
15	13		44		18		47	
16	20		9		10		47	
17	27		7		23		41	
18	7		17		35		34	
19	12		10		18+1]14.0		6	
20	11		9		33		30	
21	10		9		57		22	
22	11		10		13		18	
23	7		16		38		62+1]14.0	
24	5		6		40+1]14.0		37	
25	10		3		12+1]14.0		32	
	153		209		279		533	
	100	11.1	87	9.7	269	29.9	282	31.3
	253	10.1	296	11.8	548	21.9	815	32.6
		✓		✓	+3]14.0 ✓		✓ +3]14.0	

	13 07 296	+12.5 +72	11 30 220	+12.5 +68	12 50 279	+12.5 +74	18 01 285	-77.5 -25
Square	A 15384		A 15377		A 15370		A 14184	
1	29		30		8		5	
2	20		20		20 + 1]14.0		7	
3	15		34		10		11	
4	6		30		18		10	
5	10		19		12 + 1]14.0		9	
6	9		17		16 + 1]14.0		14	
7	13		15		25		11	
8	14		24 + 1]14.0		22 + 1]14.0		15	
9	17		12		20		4	
10	18		17		18		3	
11	20		19		23		4	
12	11		30		21		10	
13	8		31		14		3	
14	21		40 + 1]14.0		9		8	
15	17		51		15		3	
16	17		41		4		3	
17	16		59		14		5	
18	24		29		16		21	
19	7		24		24		14	
20	14		35		20		13	
21	18		30		6		10	
22	13		10		8 + 1]14.0		39	
23	24		42		18		6	
34	12		16		12 + 2]14.0		11	
25	22		14		13 + 2]14.0		9	
	245		430		255		120	
	150	16.7	259	28.8	131	14.6	128	14.2
	395	15.8	689	27.6	386	15.4	248	9.9
	✓		✓ +2]14.0		✓ +9]14.0		✓	

10 15 245 -46.0 +10 | 19 20 337 -30.0 -22 | 21 30 350 -27.5 -48 | 23 20 40 -10.0 -63

Square	A 15160		A 15399		A 15487		A 15790	
1	1		0		0		4	
2	1		0		5		6	
3	3		2		12		13	
4	3		2		9		5	
5	1		0		0		6	
6	1		0		7		9	
7	4		2		13		5	
8	6		1		9		18	
9	9 +]14.0		2		9		1	
10	3		1		16		7	
11	3		1	5 (A14920)	6		9	
12	1			6 ✓	3		6 +]14.0	
13	1			12 ✓	3		3	
14	4		1	10 ✓	5		8	
15	3		2		10		14	
16	3		1		9		14	
17	3		0		16		25	
18	2		6		15		20	
19	5		2		17		19	
20	0		3		4		25	
21	2 +]14.0		5		13		30	
22	1		12		29		30	
23	5		11		11		11 +]14.0	
24	0		7		9		19	
25	4		10		34		12	
	47		48		116		128	
	22	2.4	56	6.2	148	16.4	191	21.2
	69	2.8	104	4.2	264	10.6	319	12.8
	✓ + 2]14.0		✓		✓		✓ +2]14.0	

Square	A 15814		A 15817		A 14282		A 15803	
	2 00	0	2 00	-10	4 00	-77.0	0 40	-10.0
	128	-56	140	-64	258	-36	73	-72
1	10		2		8		16	
2	53		25		10		21	
3	21		22		8		24	
4	28		20		4		5+2] 14.0	
5	19		14		2		1	
6	30		30		8		8	
7	20		30		4		20	
8	42		23		4		24	
9	24		16		9		14	
10	38		28		11		19	
11	12		36		8		14	
12	14		34		4		25	
13	10		30		3		17	
14	40		37		6		19+1] 14.0	
15	23		48		7		21+1] 14.0	
16	29		18		4		21	
17	28		34		5		19	
18	41		21		8		28	
19	31		30		6		5	
20	12		18		5		26	
21	43		32		14		80+1] 14.0	
22	40		27		4		29	
23	19		38		8		44	
24	38		38		13		41	
25	32		21		16		21	
	413		413		100		269	
	284	31.6	259	28.8	79	8.8	293	32.6
	697	27.9	672	26.9	179	7.2	562	22.5
	✓		✓		✓		✓ +5] 14.0	

Square	A 15475		A 14219		A 14248		A 15825	
	21 30	-22.5	22 33	-67.6	23 00	-25.0	3 40	-35.0
	355	-48	286	-45.5	1	-68	202	-52
1	1		10		1		21 + 1] 14.0	
2	16		26		2		33	
3	14		23		0		70	
4	9		24		0		26	
5	8		9		0		16	
6	14		10		0		62	
7	12		5		6		45	
8	16		7		1		21	
9	10		6 + 1] 14.0		1		3	
10	13		7 + 2] 14.0		3		24	
11	17		16 + 1] 14.0		4		30	
12	11		13 + 1] 14.0		3		25	
13	17		11		1		11	
14	16		13		2		45	
15	23		13 + 1] 14.0		0		37 + 2] 14.0	
16	10		10		4		54 + 6] 14.0	
17	19		17		2		69 + 3] 14.0	
18	14		15		6		54 + 1] 14.0	
19	22		12		2		45	
20	19		26		1		58 + 1] 14.0	
21	16		5		2		41 + 1] 14.0	
22	51		8		1		30	
23	15		22		8		52	
24	21		12 + 1] 14.0		1		38	
25	33		7		1		43	
	207		203		28		523	
	210	23.3	124	13.8	24	2.7	425	47.2
	417	16.7	327	13.1	52	2.1	948	37.9
			+ 7] 14.0				+ 15] 14.0	
	✓		✓		✓		✓	

19 25 -62.5 20 00 -55.0 14 20 -30.0 17 57 -23.0
301 -30 310 -34 295 +27 334 -1

Square	A 14250		A 15387		A 15376		A 14037	
1	9		2		10		0	
2	8+]14.0		14		9		1	
3	6		11		11		0	
4	3		25		4		0+1]14.0	
5	1		0		7		0	
6	6		9		23		2+4]14.0	
7	6		12		24		0+]14.0	
8	6		19		43		0	
9	1		26+]14.0		7		0	
10	7		29		23		1	
11	8		32		14		0	
12	12		19		10		0	
13	9		3		3		0	
14	4+2]14.0		6		9		1	
15	6		24		15		0	
16	3		11		12		0	
17	15		33		24		0	
18	5		25		18		0	
19	4		25		18		1+2]14.0	
20	9		34		16		0	
21	7		18		11		0+]14.0	
22	0		28		35		0+]14.0	
23	5		9		13		2	
24	15		16		26		0	
25	6		37		29		0	
	95		242		224		5	
	66	7.3	225	25.0	190	21.1	3	0.3
	161	6.4	467	18.7	414	16.6	8	0.3
	+3]14.0 ✓		+]14.0 ✓		✓		✓ +10]14.0	

counted from print of plate.

	12 20	-25.0	9 40	-25.0	9 10	+20	7 20	-47.5
	264	+37	227	+21	178	+42	227	-14
Square	A 14627		A15181		A 15875		A 15882	
1	4		0		20		6	
2	13 + □14.0		2		9		3	
3	14		8		12		6	
4	3 0 (A14634)		5		3		4	
5	3 2 (A14538)		2		4		0	
6	7 4		22		16		2	
7	5 8		10		7		3	
8	5 2		6		13		3	
9	2 3		3		18		0	
10	6		6		3		0	
11	4		10		25		0	
12	1 1 (A14729)		5		15		2	
13	4 3		0		8		0	
14	11		8		3		0	
15	4		18		7		2	
16	1		8		7		3	
17	5		8		8		3	
18	12		7		11		6	
19	6 2		19		18		4	
20	7		20		25		2	
21	8		3		33		7	
22	8		8		31		0	
23	5 Previous count incomplete		11		19		4	
24	11		16		11		0	
25	12		7		10		4	
	110		113		160		34	
	74	8.2	99	11.0	166	18.4	30	3.3
	184	7.4	21 2	8.5	326	13.0	64	7.1
	+□14.0 ✓			✓		✓		✓

10 40 0.0 8 40 −10 8 50 −2.5 6 00 −10
220 +50 216 +21 199 +26 184 −14

Square	A15897		A15862		A15867		A15852	
1	12		2		12		1	
2	29		14		35		0	
3	28		21		36		0	
4	23		31		22 + 1]14.0		0	
5	6		5		6		0	
6	11		15		9		0	
7	17		21		15		0	
8	14		11		16		0	
9	6		4		5		0	
10	17		10		12		0	
11	27		19		10		2	
12	19		11		2		0	
13	11		4		3		0	
14	18		6		16		2	
15	18		8		17		0	
16	10		3		16		1	
17	13		15		21		1	
18	18		32		30 + 1]14.0		0	
19	27		31		31		0	
20	14		14		16		0	
21	29		33		23 + 3]14.0		0 + 1]14.0	
22	28		31		21		0	
23	29		14		15		1	
24	31		18		26		0	
25	39		15		13		0	
	266		185		232		6	
	228	25.3	203	22.6	196	21.8	2	0.2
	494	19.8	388	15.5	428	17.1	8	0.3
	✓		✓		+ 5]14.0 ✓		+1]14.0 ✓	

	10 20 241	-35 +19	14 40 321	0 +50	11 50 255	-70 +41	9 20 203	0.0 +35
Square	A15940		A15943		A15903		A15929	
1	1		11			4 (A14722)	8	
2	9		8		2		13	
3	9		25		8		21	
4	10		14		14		7	
5	5		4+1]14.0		5		4	
6	15		9		8		8	
7	24		36		7		22	
8	31+1]14.0		27		7		26	
9	12		8		11		8	
10	36		34		24		18	
11	19		28+2]14.0		29		16	
12	24		10		8		13	
13	3+1]14.0		4		11		4	
14	23		23		3		16	
15	16		34+1]14.0		2	2	15	
16	8		35		1	2	21	
17	8		28		15		14	
18	26		27		7		13	
19	23+1]14.0		36		24		23	
20	17		24+2]14.0		22		24	
21	22		28+1]14.0		30+1]14.0		20	
22	89+5]14.0		36		27		20	
23	31+2]14.0		32		18		33	
24	21+1]14.0		25		23+2]14.0		19	
25	40		34		40+1]14.0		17	
	245		310		148		220	
	277	30.8	270	30.0	181	20.1	183	20.3
	522	20.9	580	23.2	329	13.2	403	12.1
	+11]14.0 ✓		+7]14.0 ✓		+4]14.0 ✓		✓	

8 40	0.0	1 40	-72.4	14 8	+19.8	0 45	-72.4
195	+26	263	-45	342	+68	269	-45

Square	A 15841	A 4897		A 3092	A 2150
1	5		0	2	
2	17		1	7	
3	18		2	2	
4	7	2		2	
5	9	5		3	Small mag. cloud. No count made.
6	11	5		0	
7	9	0		2	
8	22	2		2	
9	18	1		2	
10	7	6		2	
11	9	1		6	
12	15	4	4	5	
13	7		2	2	
14	15		1	4	
15	3		1	5	
16	15		0	0	
17	26		1	10	
18	17		1	7	
19	12	0	4	5	
20	3		4	6	
21	10		2	3	
22	13	1		0	
23	13		1 5	0	
24	9			2	
25	19	3		2	

A 15841		A 4897		A 3092	
187		34		46	
122	13.6	18	2.0	35	3.9
309	12.4	52	2.1	81	3.2
✓		✓		✓	

	20 40 15	0 -26	3 20 210	-40 -55	12 47 273	-17.2 +45	13 49 282	-44.6 +16
Square	A 15794		A 15884		A 15305		A 8374	
1	7		25		12		0	
2	14		70 + 1] 14.0		26		0	
3	18		82		29		0	
4	9		45		11		0	
5	2		8		2		0	
6	7		51		11		0	
7	9		78		16		0	
8	4		97		10		0	
9	3		17		8		0	
10	4		42 + 1] 14.0		13		0	
11	4		48 + 2] 14.0		15		3	
12	7		36 + 1] 14.0		9		1	
13	2		31		9		0	
14	7		70		11		0	
15	4		61		8		2	
16	10		32		20		0	
17	2		54		63		2	
18	12		65		41		3	
19	14		52		17		0	
20	9		53		53		11	
21	10		84		31		0	
22	19		55		19		0	
23	8		55		23		0	
24	10		40		25		0	
25	17		42		27		0	
	111		793		210		6	
	110	11.2	500	55.5	299	33.2	6	0.7
	221	8.5	1293	51.7	509	20.4	12	0.5

+5] 14.0

7R 52 −57.7 14 12 +19.6 4 20 −35 3 40 −17.5
238 −14. 342 +68 203 −43 175 −46

Square	A 15035		A 14126		A 15849		A 15831
1	0		5		4		17
2	0		19		20		19
3	0		13		8		36
4	0		22		12		42
5	0		11		3		27
6	0		7		10		45
7	0		9		14		34
8	1		5		11		21
9	0		8		8		7
10	0		9		14		17
11	0		16		15		11
12	1		15		8		15
13	1		2		9		14
14	1		7		9		18
15	1		5		12		16
16	1		9		11		15
17	1		17		8		33 + 2] 14.0
18	4		27		9		39 + 2] 14.0
19	2		36		14		45
20	1		20		9		34
21	2		9		8		13
22	2		20		20		19
23	1		19		10		23
24	0		12		8		14
25	0		9		15		20 + 2] 14.0
	6		162		168		354
	13	1.4	169	18.8	101	11.2	240
	19	.8	331	13.2	269	10.8	594 + 6] 14.0

26.7
23.7

	23 40	-25	See 5653 for overlaps. 20 53	62.5	1030 -	27.5	1930	-32.5
	9 —	-76	300	-39	238	26	335	-24.
Square	A 14977		A 14209		A 15883		A14749	
1	1		1		5		1	
2	7		3		5	1] 14.0	0	
3	16		4		9	1] 14.0	1	
4	3		9	1] 14.0	10	2] 14.0	4	
5	0		3	1] 14.0	3		1	
6	6		9		37		0	
7	7		0		16	2] 14.0	4	
8	27		2		34		3	
9	22		2		20	1] 14	2	
10	9		6		36	1] 14	2	
11	6		9		21		1	
12	18		1		9		1	
13	6		0		10		2	
14	9		5		17		1	
15	2		9		11		9	
16	1		2		12		0	
17	15		4		24		1	
18	34		9	1] 14.0	30		5	
19	9		7	1] 14.0	40		4	
20	16		7		18		3	
21	20		7		32	1] 14.0	0	
22	10		7		60	8] 14.0	1	
23	9		5		25		5	
24	27		8		53	2] 14.0	4	
25	20		12		92	7] 14.0	1	
	140		65		255		32	
	160	17.8	66		374		24	2.7
	300	12.0	131 + 4] 14.0		629 + 26] 14.0		56	2.2
			7.3 5.2		41.6 25.2			

See Count on p. 108.

17 03 -111
336 +14

21 20 -25.
352 -46

22 22 -57.5
300 - -52

4 12 -77.7
258 -35

Square	A 14690		A 14936		A 14363		A 15904	
1	0		10		12		1	
2	0		9		28		10	
3	0		6		64		3	
4	0		8		34		0	
5	0		30		10		0	
6	0		33		11	+1]14.0(?)	0	
7	0		18		15		5	
8	0		30		8		2	
9	0		31		16		7	
10	0		28		70		8	
11	1		17		136		25	
12	0		3		48		13	
13	0		16		8		11	
14	0		13		27	+1]14.0	5	
15	1		15		42		7	
16	0		8		19		11	
17	1		8		31		13	
18	0		8		47		9	
19	1		11		30		4	
20	0		5		28		11	
21	1		5		91		7	
22	0		19		34		12	
23	0		5		24		14	
24	0		2		113		9	
25	0		26		59		1	
	2		275		548		108	
	3	0.3	79	8.8	457	50.8 40.2	80	8.9
	5	0.2	354	14.2	1005	+2]14.0	188	7.5
	✓		✓		✓		✓	

Check for magnitudes]14.0.

3 40 -25.0 3 50 -20 4 11.9 -52.4 $10^h 30'$ -27.5
185 -50 180 -46 228 -44 238 +26.0

Square	A15833		A15890		A 15879	A15883	
1	16		23	+ 1] 14.0		5	
2	13	+ 2] 14.0	35	+ 1] 14.0		~~6~~ 5	+ 1] 14.0
3	13		34			8	+ 1] 14.0
4	11		23			~~12~~ 10	+ 2] 14.0
5	10		6			3	
6	9		24			37	
7	11		17			~~18~~ 16	+ 2] 14.0
8	14		7			33	
9	7		7			~~20~~ 19	+ 1] 14.0
10	8		7			~~35~~ 34	+ 1] 14.0
11	8	+ 1] 14.0	38			22	
12	22	+ 3] 14.0	40			7	
13	8		13			11	
14	14		42	+ 1] 14.0		16	
15	22	+ 1] 14.0	44			11	
16	32	+ 1] 14.0	21			12	
17	32		28			24	
18	23		19			29	
19	13	1] 14.0	34			39	
20	36		37			19	
21	21		36			30	+ 1] 14.0
22	24		28			59	+ 8] 14.0
23	18		37			23	
24	29		23			52	+ 2] 14.0
25	20		32			93	+ 7] 14.0
	218		381			249	
24.0	216		274			368	
17.4	434	+ 9] 14.0	655	+ 3] 14.0		617	+ 26] 14.0
		✓		30.4 26.2 ✓		✓	40.9 24.7

Note :-

Plates 15883, 15844
15870, + 15974

nebulae counted by C K Seyfert

Counted 9 square degrees in following order 17, 18, 19, 24, 25, 20, 23, 22, 21.

17	18	19
24	25	20
23	22	21

	4^h20 −55° 230 −42.5		6^h20 −65° 242 −27°		16 00 +17.5 358 +43	1^h30 −42.5 239 −72	
Square	A 15844		A 15870		A 15974	A 16145	
1	14	+ 1] 14.0	9		~~11~~ 16	21	
2	24		10		~~28~~ 29	18	
3	48	+ 1] 14.0	8		39	8	
4	8		11		27	20	
5	8		5		8	10	
6	25		13		26	17	
7	50		15		15	45	
8	35		9		25	29	
9	21		10		11	23	
10	67		40		75	27	
11	98		30		~~83~~ 87	3~~4~~ 5	
12	94		18		~~32~~ 33	20	
13	54		7		~~4~~ 6	7	
14	117		30		~~12~~ 15	15	
15	63		31		~~34~~ 35	18	
16	24	+ 1] 14.0	17		~~34~~ 35	20	
17	26	+ 3] 14.0	43		~~100~~ 105	53	
18	31		25		~~126~~ 136	48	
19	37		34		66	39	
20	70		31		~~67~~ 70	54	
21	40	+ 2] 14.0	86		~~141~~ 146	24	
22	48	+ 2] 14.0	31		40	56	+ 1] 14.0
23	116		34		~~45~~ 52	44	
24	154		46		~~247~~ 252	37 ~~36~~	
25	164		30		100	63	
	750		263		~~464~~ 482	333	
	686		360	40.0	~~932~~ 967	418	
	1436	+ 10] 14.0	623	24.9	~~1396~~ 1449	751	+ 1] 14.0
	✓	76.2 57.4	✓				46.4 30.0

	1^h30 −37.5 226 −76	1^h20 −10.0 120 −70	0^h00^m −10.0 60 −70.0	16^h20 +17.5 1 +38	
Square	A 16147	A 16213	A 16265	A 15991	
1	23	16	14	~~8~~10	
2	19	28	28	11	~~+1~~
3	33	39	32	13	✓
4	8	42	16	24	‑
5	1	21	11	15	
6	14	16	15	11	
7	22	41	9	21	
8	67	10	8	17	
9	31	25	11	22	
10	47	18	12	20	
11	36	50	13	13	
12	49	36	20	12	
13	21	14	16	45	
14	22	32	17	5	
15	42	29	40	8	
16	50	26	25	34	
17	33	22	37	10	~~+2~~
18	46	32	49	7	
19	35	48	42	33	✓
20	59	50	26	10	
21	68	20	12	15	
22	94	32	34	14	
23	36	27	26	10	
24	37	30	33	4	~~+2~~
25	39	40	26	19	
16)	485	443	287	211	
9)	447	301	280	122	
25)	932	744	567	333	
	49.7		31.1		13.6
	37.3		22.7		13.3

	2 58 +12.5 132 −39	1 30 −32.5 207 −78	0 20 −5.0 47 −61	1 00 −5.0 104 −67
Square	A16182	A16149	A16289	A16226
1	1	9	18 2 (16265)	17
2	4	10	24	45 +4]14.0
3	10	17	20	44 +1]14.0
4	17	19	17	12
5	5	6	23	14
6	10	10	41	16
7	5	7	52	7
8	11	7	30	2 2 (A16209)
9	3	8	43	4 2 1 (A10854)
10	7	4	32	7
11	8	2	37	26
12	12	7	21	35
13	1	7	14	18
14	9	7	10	8
15	9	11	29	9 +2]14.0
16	3	13	21	32 +1]14.0
17	13	25	16	25
18	21	30	27	23
19	45	21	39	27
20	22	6	41	11
21	8	16	32	12
22	18	22	29	27
23	13	11	25	28
24	10	17	27	40 +1]14.0
25	14	10	42	20
16)	115	144	432 ✓	306
9)	164	158	272 ✓	213
25)	279 18.2 11.2	302 17.6 12.1	704 ✓	519 +9]14.0

Square	1 40 -5.0 123 -62 A 16262	11 20 +20 199 +70 A 10983	0 40 +20 90 -42 A 16216	1 20 -2.5 112 -62 A16209
1	13	23	10	0 1 (16226)
2	38	40	20	5
3	41	19	15	29
4	17	19	9	25
5	14	4	6	8 3 (16262)
6	19	4	20	18 3
7	21	8	7	47 2 4(15854
8	46 +1]14.0	14	7	15 14
9	17 1 (A16209)	20 +2]14.0	5	7 16 (7)
10	21	20 +1]14.0	8	6 13 (16)
11	34	18 +1]14.0	6	4 17 (25)
12	20	12	7	3 29 (42)
13	7	8	8	6 7 (11)
14	21	17	16	14 +1]14.0 14
15	46	33	10	16 2
16	55	34	8	19 1
17	36	67	23 +1]14.0	33 2
18	20 +1]14.0	23	26	24
19	43	22	27	35
20	53	38 +1]14.0	23	34 6
21	57	12	13 +1]14.0	37 53
22	43	14	17	24 45
23	35	20	17	26 26
24	73 +1	31	28	26 4 1
25	47	29	10	36 11
16)	430 ✓	293 ✓	162 ✓	222 ✓
9)	407 ✓	256 ✓	184 ✓	275 ✓
25)	837 ✓	549 ✓	346 ✓	497 ✓
	+2]14.0	+5]14.0	+2]14.0	+1]14.0

Square	A 16300	A 16045	A 16202	A 16181
	2 40 -7.5 150 -55	12 37 +2.5 265 +65	1 15 +7.5 105 -54	2 40 0 140 -50
1	9 +1]14.0	10 +1]14.0 2(15280)	15	8
2	19	17	41 +1]14.0	26
3	54	34 +1]14.0	53	29
4	24	13 +1]14.0	18	36
5	19 +1]14.0	5 3 (14699)	10	55 +2]14.0
6	27	10 +1]14.0 3	22	17
7	30	20 +1]14.0 3	8	25
8	22	7 2	12	28 +1]14.0
9	18	11 +2]14.0 3	4	15
10	16	11 1 (15288).	14	18
11	36 +1]14.0	20 +1]14.0	15	34
12	16 +1]14.0	21	17	20
13	9	2 2	3	10
14	24	6 4	23	39 +1]14.0
15	17 +1]14.0	11 1	30	23
16	4 +1]14.0	6 +1]14.0 5	47	19
17	25 +5]14.0	15 +1]14.0 1	96	33
18	45 +2]14.0	31 +2]14.0	25	49
19	47 +3]14.0	23 1	14	34 +2]14.0
20	22 +1]14.0	18	34	23 +2]14.0
21	21	20 +1]14.0	34	26
22	38	37 +1]14.0	25	48 +1]14.0
23	25 +1]14.0	44	46	60 +2]14.0
24	27 +1]14.0	25	42	37 +1]14.0
25	27	15 +1]14.0	27	27 +2]14.0
16)	346 ✓	204 ✓	322 ✓	402 ✓
9)	277 ✓	228 ✓	343 ✓	337 ✓
25)	623 ✓	432 ✓	665 ✓	739 ✓
	+19]14.0	+15]14.0	+1]14.0	+14]14.0

Square	11 20 ±0 232 +56 A 15964	12 10 -7.5 257 +54 A 16037	2 0 +20 160 -70 A 16303	12 20 -15 262 +47 A 16040
1	9 +1] 14.0	3	7	2
2	24	7	7	17
3	29	8	8	49
4	3	17 +1] 14.0	5	34
5	13	7	3	7
6	23	16	10	24
7	17	18	16	26
8	25 +2] 14.0	32 1 (15291)	4	30
9	28	14	6	23
10	57	32	17	36
11	37	43	11	28
12	22	35	14	51
13	4	0 (7 A15447)	5	13
14	23	13 (5) 5 (15447)	25	28
15	21	10 (7) 8	6	19
16	22	9 (3) 3	5	7
17	39	21	9 +1] 14.0	34
18	46 +1] 14.0	17	25	48
19	54	14	19	37
20	26	45	20	30
21	29	39	28 +1] 14.0	45
22	62	83	39	36
23	50	32 1	22	48
24	33	27 2	9	29
25	26	35	8	77
16)	357	264	149 ✓	394
9)	365	313	180 ✓	384 ✓
25)	722	577	329 ✓	778
	+4] 14.0	+1] 14.0	+2] 14.0	

Square	22 00 −10 18 −48 A 16241	15 0 +2.5 328 +48 A 16160	22 0 ±0 30 −42 A 16231	15 20 ±0 330 +42 A 16164
1	9	27	2	3
2	25	22	10	2
3	10	11	2	6
4	6	8	4	5
5	1 1 (7343)	5	0	3
6	16	26	4	5
7	17	24	7	15
8	27	15 6 (15943)	4	25
9	6	2 4	5	1
10	36	12	3	17
11	28	16	11	13
12	19	20	1	11
13	30	1	2	2
14	9	23	6	10
15	29	42	1	13
16	13	26	5	9
17	29	31 +1]14.0	4	16
18	39	40	5	17
19	41	18	4	18
20	38	25 +1]14.0	7	31
21	25	26 +1]14.0	14	28
22	25	19 +4]14.0	9	27
23	16	40 +1]14.0	5	18
24	44	39 +1]14.0	5	17
25	67	23 +1]14.0	18	27
16)	281 ✓	280 ✓	67 ✓	140 ✓
9)	324 ✓	261 ✓	71 ✓	199 ✓
25)	605	541 ✓ +10]14.0	138 ✓	339 ✓

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Square	14 0 -10 300 +47 1716025		2 50 +12.5 132 -39 716290	
1	5		5	
2	6		17	1 (16182)
3	6	1 (3657)	25	7
4	17		16	9
5	5		19	7
6	10		19	7
7	20	5 (15422)	39	8
8	9	12	33	7
9	2	12	6	1
10	13	24	6	1
11	23	12	30	6
12	7		8	6
13	3		1	
14	8	3	6	4
15	17	2	7	2
16	8		2	
17	56		72	10
18	28		42	11
19	21		39	22
20	21	1 3	50 +1]14.0	24
21	36	4 21	11	14
22	19 +1]14.0	3 6	25	7
23	15	2	19	1
24	22		47	5
25	41	1 3	82	13
	159 ✓		239 ✓	
	259 ✓		387 ✓	+1]14.0
	418 ✓	+1]14.0	626 ✓	

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Sq 1. + 58

Sq 2 + 12

Sq 3 = 11

Sq 4 = 18

2 1 0 1 0 1 0 0 0 0 2 2 0 1 1 1 0 0 0 1 0 3 2 0 3 2 3 4 2 7 8 2 2 2 3 4

8 + 4 $\frac{21}{12}$

− 21

21) 4 + 3 + 8 = 15
10) 5 + 4 + 11 = 20

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Neb. counts on A Ames' plates.

	✓ A14689		✓ A14703		✓ A14707	
17	20	+1] 14.0	35	+1] 14.0	! 17	+1] 14.0
18	55		39		23	
19	27	+1] 14.0	86	+1] 14.0	47	
20	30		80		37	
21	22	+1] 14.0	55		30	
22	21	+1] 14.0	62		17	
23	19		49	+1] 14.0	12	
24	29		47		17	
25	31		70	+2] 14.0	26	
	9/254 = 28.2		9/523 = 58.1		9/226 = 25.1	

Plate generally rich, rather than clustered.

✓ ✓ ✓

14689 = 12 50 − 7.5 , 274 + 54

14703 = 12 50 −12.5 , 274 + 50

14707 = 13 10 − 14.0 , 281 + 48

Only the 9 square degrees examined

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9 Dec. Plates not in SFM's counts

all neb. transferred to # 14265	6586	δ	14442	β	new plate. Not examined ~~β 14331 not in book.~~		
neb transferred to #14210 + 14232	6604	γ	3824	β	no neb. fall within limits		
neb transferred to #14238 ✓	6763	β	3554	β	all neb. transferred to 3657		
	6770	β	1835	β	no new neb		
L. Mag. Cl.	7016	α	✓ 7497	β	transferred to #14896	Not class. by HS	
120 mm	7698	β	✓ 14103	γ		14232	p. 50
✓	8261	β ✓	7377	γ	transferred to #14908 ✓	8488	p. 51
✓	12652	γ ✓	✓ 4759	β		3092	p. 52 (omitted)
✓	12790	β ✓	✓ 1836	δ			
✓	13017	δ	13021	β?	no new neb.		
✓	13035	α ✓	✓ 4342	β ✓			
✓	13039	β ✓	✓ 4599	δ ✓			
✓	13043	γ	✓ 4611	β ✓			
✓	13105	γ ✓	✓ 4749	β ✓			
✓	13342	δ ✓	✓ 4923	δ ✓			
no. gal. pole. 1 dupl. already counted	8870	β	✓ 5459	γ ✓			
New plate. Has never been examined	14229	β	✓ 3522	γ ✓			
	[2158	δ] L. Mag. Cl.	14217	β	neb transferred to #14211		
no new neb.	12497	β	2156	δ	no new neb.		
✓	14370	α	5731	α	" " "		
new plate. Has never been examined.	14431	β	✓ 5044	α			
160 mm	7501	α	✓ 5365	ε			
only dark neb.	12425	β	9394	γ	no. gal. pole - another plate counted		
120 mm	14248	α	12243	δ	120 mm		
	14229	α	12370	α	no new neb.		
120 mm	8377	α	14638	γ	14699 covers; is counted		
only nearby	4320	α	14703	α	only partially searched by H.A.		
✓	3690	γ	14649	α	only partially searched by H.A.		
✓	4259	α	AA 14689	β	" " "		
broken. Where has it gone to?	4615	β	14707	β	" " " " "		

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8488
~~3092~~

apr. 8, 1931
~~Unqualified as yet by HS~~

14627 γ
626 γ
580 α
578 α γ
431

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d	n	Δm
	~~8~~	1.5
2	a64	3.0
4		

$n = 10^{0.6\Delta m}$

$\log n = 0.6\Delta m$

For Unif density

Δm	n/n0
0.1	1.15
0.2	1.32
0.3	1.512
0.4	1.74
0.6	2.29
0.8	3.01
1.0	4.0
1.5	8.0