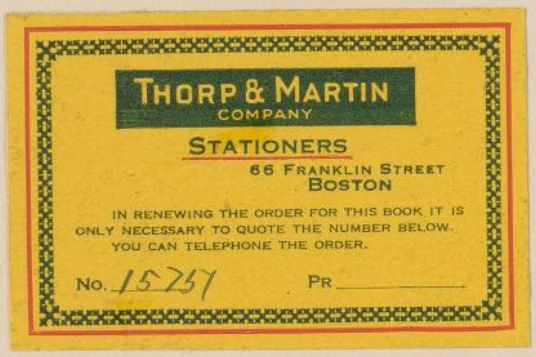
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0h 141

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Positions of nebulae on A 12546 — Blue, mean of two positions for 1900, Red, positions for 2000.

3019710	55.3	11.8		23	46	63	-30	32.1	✓
3019728	86.2	47.0	(4.71)	23	48	32.2	-29	56.6	✓
	30.9	35.2			2	25.9		35.5	
P 1	69.2	32.2		23	47	12	-30	11.6	
				23	52	23	-29	38.2	
G 1	67.0	38.0		23	47	00	-30	5.8	
				23	52	11	-29	32.4	
P 3	67.6	40.8		23	47	4	-30	3.0	
				23	52	15	-29	29.6	
P 2	82.0	38.4		23	48	12	-30	5.4	
				23	53	23	-29	32.0	
	81.0	44.7			48	7		9.7	
G 2	81.7	45.6		23	48	11	-29	58.2	
				23	53	22	-29	24.8	
						18			
3019704	43.7	48.2		23	45	18	-29	54.5	
2918872	80.2	78.3	(46.6)	23	48	8	-29	25.9	✓
	36.5	30.1			2	50		28.6	
? G 6	39.4	69.6		23	44	58	-29	32.8	
				23	~~49~~ 59	10	-28	59.5	
G 7	46.0	73.0		23	45	29	-29	31.0	
				23	50	41	-28	57.7	
P 4	61.8	51.6		23	46	42	-29	51.3	
				23	51	54	-29	18.0	
G 4	67.1	51.1		23	47	6	-29	51.7	
				23	52	17	-29	18.3	
P 6	64.5	66.0		23	46	55	-29	37.7	
				23	52	17	-29	4.3	
						10			
P 7	67.4	69.5		23	47	9	-29	34.2	
				23	52	~~20~~ 24	-29	0.8	

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3019728	85.3	46.8		23	48	32.2	-29	56.6 v
2918891	121.8	64.7	(4.62)	23	57	21.0	-29	40.3
	36.5	17.9			2	48.8		16.3
P5	88.4	51.1		23	48	46.	-29	52.7
				23	53	58	-29	19.3
? G5	~~92.6~~ ~~82.6~~	59.3		23	48 49	20 6	-29	45.2
				23	~~55~~ 54	~~31~~ 17	-29	11.8
P44	120.4	63.7		23	51	15	-29	41.2
				23	56	25	-29	7.8
2918872	79.8	78.5		23	48	8	-29	25.9
2918891	121.7	64.9	(4.62)	23	57	21	-29	40.3
	41.9	13.6			3	13		14.4
P9	94.3	78.1		23	49	16	-29	26.3
				23	54	27	-28	52.9
P8	98.2	72.5		23	49	33	-29	32.2
				23	54	44	-28	58.8
G45	114.0	70.0		23	50	46	-29	34.9
				23	55	57	-29	1.5
IC 5364 P43a	120.0	70.0		23	51	13	-29	34.9
				23	56	23	-29	1.5
P43b	120.4	70.1		23	51	16	-29	34.8
				23	56	26	-29	1.4
2918850	31.3	110.0		23	44	33	-28	53.9
2918872	79.8	78.5	(4.44)	23	48	8	-29	25.9
	48.5	31.5			3	35		32.0
P14	43.3	104.7		23	45	28	-28	59.4
				23	50	40	-28	26.1
G9	48.8	-109.9		23	45	50	-28	54.2
				23	51	2	-28	20.9
G8	53.0	99.1		23	46	9	-29	5.0
				23	51	21	-28	31.7

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110.0
78.5

I 5362

P 13	56.2	109.2	23 46 24	-28	55.0 ✓ I.C. 5362
			23 51 36	-28	21.7
G 14	70.1	98.3	23 47 24	-29	5.8
			23 52 36	-28	32.5
(G13) P 10	71.4	97.0	23 47 31	-29	7.2
			23 52 43	-28	33.9
P 11	77.1	95.8	23 47 56	-29	8.4
			23 53 7	-28	35.0
P 12	71.2	101.7	23 47 30	-29	3.0
			23 52 41	-28	29.6
2918872	79.8	78.5	23 48 8	-29	25.9
2918877	88.8	102.2	(5.00) 23 48 53	-29	2.9
	9.0	23.7	45		23.0
G 12	83.4	92.3	23 48 26	-29	12.4
			23 53 37	-28	39.0
2918850	31.3	110.0	23 44 33	-28	53.9
2818402	122.1	143.8	(4.60) 23 51 31	-28	22.1
	90.8	33.8	6 58		31.8
G 11	32.1	134.0 3.5	23 44 37	-28	31.3 8
			23 49 49	-27	~~58.0~~ 57.5
G 10	38.2	120.5	23 45 6	-28	44.0
			23 50 18	-28	10.7
G 15	47.8	134.9	23 45 49	-28	30.5
			23 51 1	-27	57.2
G 16	54.7	129.8	23 46 21	-28	35.3
			23 51 33	-28	2.0
P 20	41.9	143.5	23 45 22.	-28	22.4
			23 50 34	-27	49.1
P 16	58.8	133.4	23 46 39	-28	31.9
			23 51 51	-27	58.6

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2918850	31.3	110.0				
2818402 cent	122.1	143.8				
P 17	59.6	135.7	23 46 44		-28	29.7
			23 51 56		-27	56.4
P 15	68.0	110.8	23 47 22		-28	53.1
			23 52 33		-28	19.7
G 17	70.1	132.0	23 47 32		-28	33.2
			23 52 43		-27	59.8
G 18	84.0	137.7	23 48 36		-28	27.9
			23 53 47		-27	53.5
G 19	86.8	136.9	23 48 48		-28	28.6
			23 53 59		-27	55.2
G 20	97.7	128.3	23 49 39		-28	36.7
			23 54 50		-28	3.3
G 21	98.1	139.7	23 49 40		-28	26.0
			23 54 51		-27	52.6
G 22	97.5	141.0	23 49 37		-28	24.8
			23 54 48		-27	51.4
P 42	100.3	113.5	23 49 51		-28	50.6
			23 55 2		-28	17.2
P 18	100.0	119.3	23 49 49		-28	45.2
			23 55 0		-28	11.8
2818379	78.7	172.8	23 48 16		-27	53.0
2818402	122.1	143.9	23 51 31	4.50	-28	22.1
	43.4	28.9	3 15			29.1
? P 21 bis	66.3	153.5	23 47 20		-28	12.4
			23 52 31		-27	39.0
G 27	83.0	160.5	23 48 35		-28	5.4
			23 53 46		-27	32.0
G 26	97.4	152.2	23 49 40		-28	13.7
			23 54 51		-27	40.3

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	78.7	172.8						
	122.1	143.9						
G161	97.4	151.7	23	49	40	-28	14.2	
			23	54	51	-27	40.8	
P22	93.2	161.0	23	49	21	-28	4.9	
			23	54	32	-27	31.5	
P21	95.1	158.2	23	49	30	-28	7.7	
			23	54	41	-27	34.3	
G25	97.9	153.0	23	49	42	-28	12.9	
			23	54	51/3	-27	39.5	
G24	101.0	152.6	23	49	56	-28	13.3	
			23	55	7	-27	39.9	
G23	97.3	149.4	23	49	39	-28	16.5	
			23	54	50	-27	43.1	
G155	101.5	152.2	23	49	58	-28	13.7	
			23	55	9	-27	40.3	
G63	112.0	120.5	23	50	46	-28	15.4	
			23	55	576	-27	42.0	
P36	115.7	161.1	23	57	2	-28	4.8	
			23	56	132	-27	31.4	
P35	116.0	164.6	23	51	4	-28	1.2	
			23	56	154	-27	27.8	
G65	115.5	169.0	23	51	1	-27	56.9	
			23	56	171	-27	23.5	
2616806.	41.8	257.8	23	45	31	-26	27.5	
2516682.	74.9	302.5	4,50	23	48	0	-25	44.3
	33.1	44.7			2	29		43.2
P25	55.5	261.5	23	46	33	-26	23.8	
			23	51	45	-25	50.5	
P24	60.2	261.0	23	46	53.8	-26	24.4	
			23	52	6	-25	51.1	
P26	61.9	288.6	23	47	1.5	-25	57.7	
			23	52	13	-25	24.3	

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2716463	35.8	183.5		23	44	58	-27	40.7		
2716480	92.9	222.1	(454)	23	49	17	-27	4.1		
	57.1	38.6			4	19		36.6		
G 28	36.9	194.1		23	45	3	-27	30.5		
				23	50	15	-26	57.2		
G 30	38.3	199.7		23	45	9	-27	25.3		
				23	50	21	-26	52.0		
G 29	75.0	193.4		23	47	56	-27	31.3		
				23	53	7	-26	57.9		
P 23	70.6	214.3		23	47	36	-27	11.5		
				23	52	47	-26	~~58.1~~ 3		
G. 31	87.1	219.4		23	48	51	-27	6.7		
				23	54	2	-26	33.3		
2716480	92.8	222.1		23	49	17	-27	4.1		
2716498	136.2	200.5	(4.33)	23	52	25	-27	25.7		
	43.4	21.6			3	8		21.6		
G 32	98.0	221.3		23	49	39	-27	4.9		
				23	54	50	-26	31.5		
G 70	114.2	217.3		23	50	50	-27	8.9		
				23	56	0	-26	35.5		
P 38	124.9	215.3		23	51	36	-27	10.9		
				23	57	46	-26	37.5		
					6					
G 156	134.2	210.7		23	52	16	-27	15.5		
				23	57	36	-26	42.1		
2716480	92.9	222.1		23	49	17	-27	4.1		
2616849	134.8	268.8	(4.51)	23	52	26	-26	17.9		
	41.9	46.7			3	9		46.2		
G 33	100.5	233.3		23	49	51	-26	53.2		
				23	55	2	-26	19.8		
	1				51	9				
G 71	~~1~~7.7	226.3		23	57	54	-27	0.4		
				23	57	4	-26	27.0		
					56	19				

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2516682	74.9	302.6	(4.44)	23 48 0	-25 44.3
2616849	134.8	268.9		23 52 26	-26 17.9
	59.9	33.7		4 26	33.6
P28	77.0	292.2		23 48 10	-25 54.6
				23 53 21	-25 21.2
P27	87.2	286.0		23 48 54	-26 0.8
				23 54 5	-25 27.2
P31	95.3	284.0		23 49 30	-26 2.8
				23 54 41	-25 29.4
P39	96.5	273.8		23 49 36	-26 13.0
				23 54 47	-25 39.6
P75	119.0	282.2		23 51 16	-26 4.6
				23 56 26	-25 31.2
C	130.0	284.5		23 52 5	-26 2.4
				23 57 15	-25 29.0
3019728	86.2	47.0		23 48 32.2	-29 56.6
3019946	123.0	40.7	(4.62)	23 51 22.4	-30 3.5
	36.8	6.3		2 50	6.9
G3	105.4	44.6		23 50 ~~0.8~~ 1	-29 59.2
				23 55 11	-29 25.8
3019728	86.2	47.0		23 48 32.3	-29 56.6
3019762	155.1	16.5	(4.60)	23 53 48.4	-30 29.0
	68.9	30.5		5 16.1	32.4
G34	184.0	18.7		23 ~~51~~ 50 ~~26~~ 40	-30 26.7
				23 ~~56~~ 55 36 50	-29 53.3
3019774	122.9	40.7		23 51 22.0	-30 3.5
3019762	155.1	16.5	(4.54)	23 53 48.4	-30 29.0
	32.2	24.2		2 26.5	25.5
P49	136.0	28.0		23 52 22	-30 16.9
				23 57 32	-29 43.5

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3019747 cont.	122.9	40.7						
3019767	155.1	16.5						
	32.2	24.2						
P 52	139.0	35.0	23	52	35	-30	9.5	
			23	57	45	-29	36.1	
G 35	137.4	27.5	23	52	25	-30	17.4	
			23	57	35	-29	44.0	
P 46	142.1	19.3	23	52	49	-30	26.0	
			23	57	59	-29	52.6	
G 36	147.6	23.8	23	53	14	-30	21.3	
			23	58	23	-29	47.9	
P 48	146.8	25.2	23	53	11	-30	19.8	
			23	58	20	-29	46.4	
G 38	147.4	35.8	23	53	13	-30	8.7	
			23	58	22	-29	35.3	
P 47	150.9	20.5	23	53	29	-30	24.8	
			23	58	38	-29	51.4	
P 50	151.3	24.3	23	53	31	-30	20.8	
			23	58	40	-29	47.4	
P 51	152.8	29.3	23	53	38	-30	15.5	
			23	58	47	-29	42.1	
G 37	151.6	34.7	23	53	32	-30	9.8	
			23	58	41	-29	36.4	
P 53	148.5	40.4	23	53	18	-30	3.8	
			23	58	27	-29	30.4	
2918891	122.3	64.8	23	51	21	-29	40.3	
3019765	161.6	42.3	23	54	21.4	-30	2.5	
	39.3	22.5		3	0.0		22.2	
P 45	124.6	53.9	23	51	32	-29	51.0	
			23	56	42	-29	17.6	

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	122.3	64.8						
	161.6	42.3						
G44	139.0	63.2	23	52	37	-29	41.8	
			23	57	47	-29	8.4	
G43	144.1	62.8	23	53	1	-29	42.2	
			23	58	10	-29	9.8	
P56	144.4	57.3	23	53	2	-29	47.6	
			23	58	11	-29	14.2	
P60	156.1	64.3	23	53	56	-29	40.6	
			23	59	5	-29	7.2	
G41	158.1	55.7	23	54	5	-29	49.2	
			23	59	14	-29	15.8	
G39	159.4	49.0	23	54	11	-29	56.0	
			23	59	20	-29	22.6	
2918891	122.3	64.8	23	51	21	-29	40.3	
2918907	155.4	92.9	(4.60)					
	33.1	28.1	23	53	53	-29	11.7	
				2	32		28.6	
P54	134.9	68.9	23	52	19	-29	36.0	
			23	57	29	-29	2.6	
G47	155.0	78.2	23	53	51	-29	26.6	
			23	59	0	-28	53.2	
2918877	89.2	102.1	23	48	53	-29	2.9	
2818423	152.4	146.0	(4.56)					
	63.2	43.9	23	53	41	-28	20.3	
				4	48		42.6	
G53	119.2	106.2	23	51	10	-28	59.0	
			23	56	20	-28	25.6	
G54	125.5	110.8	23	51	38	-28	54.4	
			23	56	48	-28	21.0	
P41	128.4	120.7 ~~138.2~~	23	51	52	-28	44.8 ~~27.8~~	
			23	57	2	~~-27~~ -28	~~54.4~~ 11.4	
P64	120.5	102.2	23	51	16	-29	2.8	
			23	56	26	-28	29.4	
G78	144.0	138.0	23	53	3	-28	28.1	
			23	58	12	-27	54.7	

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2918907	155.2	92.9	23	53	53	-29	11.7
3019799	211.0	51.7 (4.56)	23	58	7	-29	53.2
	55.8	41.2		4	14		41.5
G 52	161.9	88.8	23	54	23	-29	16.0
			23	59	32	-28	42.6
G 50	162.5	79.9	23	54	26	-29	24.8
			23	59	35	-28	51.4
G 49	164.7	75.9	23	54	36	-29	28.8
			23	59	45	-28	55.4
G 48	167.3	75.0	23	54	48	-29	29.8
			23	59	57	-28	56.4
G 51	~~177.7~~ 177.6	~~81.0~~ ~~82.4~~	23	55	~~35~~ 40	-29	~~22.4~~ 23.8
			0	0	~~44~~ 49	-28	~~49.0~~ 50.4
P 57	164.7	62.0	23	54	36	-29	42.8
			23	59	45	-29	9.4
G 40	164.4	52.5	23	54	35	-29	52.2
			23	59	44	-29	18.8
P 62	171.2	66.4	23	55	7	-29	38.4
			0	0	16	-29	5.0
P 63	170.4	62.0	23	55	2	-29	42.8
			0	0	11	-29	9.4
P 107	177.3	62.6	23	55	34	-29	42.2
			0	0	43	-29	8.8
P 105	182.1	53.2	23	55	58	-29	51.6
			0	1	7	-29	18.2
G 42	184.7	61.0	23	56	7	-29	43.8
			0	1	16	-29	10.4
P 106	191.9	79.3	23	56	40	-29	25.4
			0	1	49	-28	52.0
G 80	197.1	77.0	23	57	4	-29	27.8
			0	2	12	-28	54.4

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G 81	197.5	78.0	23	57	6	-29	26.8
			0	2	14	-28	53.4
G 79	202.2	70.3	23	57	27	-29	34.4
			0	2	35	-29	1.0
2818423	152.3	146.1	23	53	41	-28	20.3
2918934	199.7	98.0 (4.53)	23	57	16	-29	7.3
	47.4	48.1		3	35		47.0
P 101	155.1	113.7	23	53	54	-28	52.0
			23	59	3	-28	18.6
G 57	160.5	117.6	23	54	18	-28	48.2
			23	59	27	-28	14.8
G 55	169.9	103.8	23	55	1	-29	12.6
			0	0	10	-28	28.2
P 66	175.1	102.7	23	55	24	-29	2.7
			0	0	33	-28	29.3
P 117	180.2	104.3	23	55	47	-29	1.1
			0	0	56	-28	27.7
P 116	188.8	107.1	23	56	26	-28	58.3
			0	1	34	-28	24.9
G 56	182.5	110.0	23	55	58	-28	55.5
			0	1	7	-28	22.1
P 118	174.5	120.7	23	55	22	-28	45.0
			0	0	31	-28	11.6
G 58	176.8	126.5	23	55	32	-28	39.4
			0	0	41	-28	6.0
P 67	172.6	138.5	23	55	15	-28	27.8
			0	0	24	-27	54.4
P 100	193.9	132.4	23	56	50	-28	33.7
			0	1	58	-28	0.3

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3019762	154.8	16.4	(4.60)	23	53	48.4	-30	29.0
3019799	211.0	57.6		23	58	7.	-29	53.2
	56.2	35.2			4	19		35.8
P103	189.2	34.4		23	56	26	-30	10.7
				0	1	34	-29	37.3
P112	183.2	39.5		23	55	59	-30	5.5
				0	1	8	-29	32.1
P104	197.9	45.1		23	57	7	-29	59.8
				0	2	15	-29	26.4
P61	172.8	49.0		23	55	11.	-29	55.8
				0	0	20	-29	22.4
P110	204.2	16.6		23	57	36	-30	28.8
				0	2	44	-29	55.4
P111	202.2	22.9		23	57	26	-30	22.4
				0	2	34	-29	49.0
P208	208.0	26.7		23	57	59	-30	18.5
				0	3	1	-29	45.1
3019801	212.3	10.0	4.47	23	58	13	-30	34.8
3019818	231.8	33.3		23	59	40	-30	11.2
	19.5	23.3			1	27		23.6
P207	224.5	17.9		23	59	7	-30	26.8
				0	4	14	-29	53.4
2918934	199.8	98.0	4.58	23	57	16	-29	7.3
2918953	229.9	80.6		23	59	34	-29	24.6
	30.1	17.4			2	18		17.3
P114	213.7	87.7		23	58	20	-29	17.4
				0	3	28	-28	44.0
P115	220.8	95.1		23	58	52	-29	10.2
				0	4	0	-28	36.8
P164	122.3	87.0		23	58	59	-29	18.2
				0	4	7	-28	44.8

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	199.8	98.0					
	229.9	80.6					
P165[a]	223.0	82.7	23	59	2	-29	22.6
			0	4	9	-28	49.2
G82	219.8	84.7	23	58	48	-29	20.6
			0	3	56	-28	47.2
G83	224.1	86.4	23	59	7	-29	18.8
			0	4	14	-28	45.4
G84	223.3	87.3	23	59	4	-29	18.0
			0	4	11	-28	44.6
G85	225.7	90.0	23	59	15	-29	15.2
			0	4	22	-28	41.8
2918934	200.1	98.0	23	57	16	-29	7.3
2818453	232.9	150.9	23	59	44	-28	14.31
	32.8	52.9		2	28		53.0
P99	204.3	138.9	23	57	34	-28	26.4
			0	2	42	-27	53.0
P119	210.7	139.8	23	58	4	-28	25.4
			0	3	12	-27	52.0
P155	219.7	137.7	23	58	45	-28	27.6
			0	3	53	-27	54.2
P156	227.3	126.4	23	59	24 19	-28	38.8
			0	4	~~26~~ 31	-28	5.4
P159	230.2	104.5	23	59	32	-29	0.8
			0	4	39	-28	27.4
G86	214.9	116.8	23	52	23	-28	48.4
			0	3	31	-28	15.0
G87	210.6	127.5	23	58	3	-28	37.8
			0	3	11	-28	4.4
G88	209.5	139.0	23	57	58	-28	26.3
			0	3	6	-27	52.9
G89	209.4	140.8	23	57	58	-28	24.4
			0	3	8	-27	51.0

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2816453	232.8	151.0	23	59	44	-28	14.3	
2926	301.0	102.2	4.53 0	4	53	-29	2,5	
	68,2	48,8		5	9		48.2	
P149	235.5	149.7	23	59	56	-28	15.6	
			0	5	3	-27	42.2	
P148	251.5	148.3	0	1	9	-28	17.0	
			0	6	16	-27	43.6	
P150	256.6	149.3	0	1	32	-28	16.0	
			0	6	39	-27	42.6	
P154	241.9	126.2	0	0	25	-28	38.8	
			6	5	32	-28	5.4	
P151	260.8	141.3	0	1	51	-28	23.9	
			0	6	58	-27	50.5	
P158	258.1	125.2	0	1	39	-28	39.8	
			0	6	46	-28	6.4	
P157	266.0	124.8	0	2	14	-28	40.2	
			0	7	20	-28	6.8	
36 44 50 P187	272.7	126.4	0	2	44	-28	38.6	
			0	7	50	-28	5.2	
P162	267.0	110.6	0	2	19	-28	54.2	
			0	7	25	-28	20.8	
P188	280.4	111.9	0	3	20	-28	53.0	
			0	8	26	-28	19.6	
P192	296.9	145.3	0	4	35	-28	19.9	
			0	9	41	-27	46.5	
G 91	266.3	124.2	0	2	16	-28	40.8	
			0	7	22	-28	7.4	
G 92	263.0	146.6	0	2	1	-28	18.7	
			0	7	7	-27	45.3	
G 93	252.9	142.2	0	1	15	-28	23.0	
			0	6	22	-27	49.6	

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2818379	79.5	172.7	4.39	23 48 16	-27 53.0
2716498	136.3	200.8		23 52 25	-27 25.7
	56.8	27.6		4 9	27.3
P32	106.4	176.7		23 50 14	-27 49.2
				23 55 24	-27 15.8
P33	112.1	177.8		23 50 39	-27 48.0
				23 55 49	-27 14.6
P37	127.0	172.5		23 51 44	-27 53.4
				23 56 54	-27 20.0
G64	109.4	177.3		23 50 27	-27 48.6
				23 55 37	-27 15.2
2818423	148.1	145.9	4.68	23 53 41	-28 20.3
2818439	181.2	160.1		23 56 16	-28 5.5
	33.1	14.2		2 35	14.8
P97	149.0	157.0		23 53 45	-28 8.7
				23 58 54	-27 35.3
P92	175.9	160.0		23 55 51	-28 5.6
				0 1 0	-27 32.2
P95	180.0	156.2		23 56 10	-28 9.6
				0 1 18	-27 36.2
G59	160.3	153.5		23 54 38	-28 12.4
				23 59 47	-27 39.0
2716498	131.7	200.3	4.66	23 52 25	-27 25.7
2818439	181.2	160.1		23 56 16	-28 5.5
	49.5	40.2		3 51	39.8
G66	145.0	187.4		23 53 27	-27 38.4
				23 58 36	-27 5.0
G61	169.3	162.4		23 55 21	-28 3.4
				0 0 30	-27 30.0
G62	172.8	166.6		23 55 37	-27 57.2
				0 0 46	-27 25.8

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(cont)

2716498	131.7	200.3	23	52	25	-27	25.7	
2818439	181.2	160.1	23	56	16	-28	5.5	
	49.5	40.2		3	51.		39.8	
G67	178.4	180.5	23	56	3	-27	45.3	
			0	1	11	-27	11.9	
P a	146.2	193.9	23	53	32	-27	31.9	
			23	58	41	-26	58.5	
P69	155.0	187.1	23	54	14	-27	38.7	
			23	59	23	-27	5.3	
P68	162.3	178.7	23	54	48	-27	47.1	
			23	59	57	-27	13.7	
P96	162.7	166.2	23	54	50	-27	59.6	
			23	59	59	-27	26.2	
P84	168.9	183.2	23	55	19	-27	42.6	
			0	0	28	-27	9.2	
P91	176.7	161.2	23	55	55	-28	4.6	
			0	1	4	-27	31.2	
P90	181.1	167.5	23	56	16	-27	58.3	
			0	1	24	-27	23.9	
P83	179.1	191.6	23	56	6	-27	34.2	
			0	1	14	~~-26~~ -27	0.8	
2818439	181.2	160.1	23	56	16	-28	5.5	
2818458	228.2	150.9	4.43 23	59	44	-28	14.3	
	47.0	9.2		3	28		8.8	
P94	184.8	158.1	23	56	32	-28	7.4	
			0	1	40	-27	34.0	
P93	189.2	155.0	23	56	51	-28	10.4	
			0	1	59	-27	47.0	
G60	190.5	152.0	23	56	57	-28	13.3	
			0	2	5	-27	39.9	

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G90	199.6	151.0		23	57	38	−28	14.2
				0	2	46	−27	40.8
2818439	181.2	160.1		23	56	16	−28	5.5
2716538	233.7	176.2	4.40	0	0	7	−27	50.1
	52.5	16.1	(See previous page)		3	51		15.4
~~P90~~	~~181.2~~	~~167.6~~						
G157	190.1	171.3		23	56	55	−27	54.8
				0	2	3	−27	21.4
G158	198.9	168.2		23	57	34	−27	57.8
				0	2	42	−27	24.4
G96	~~206.0~~ 210.6	163.0		23	58 ~~57~~	5 ~~41~~	−28	2.7
				0	~~2~~ 3	~~49~~ 13	−27	29.3
G97	196.9	175.0		23	57	25	−27	51.3
				0	2	33	−27	17.9
P122	205.9	168.4		23	58	5	−27	57.6
				0	3	13	−27	24.2
P121	216.5	169.3		23	58	52	−27	56.7
				0	4	0	−27	23.3
P184	226.0	170.7		23	59	33	−27	55.3
				0	4	40	−27	21.9
2716513	169.1	190.8		23	55	17	−27	35.7
2716538	233.7	176.3	4.50	0	0	7	−27	50.1
	64.6	14.5			4	50		14.4
G68	188.0	183.2		23	56	42	−27	43.2
				0	1	50	−27	9.8
P98	190.7	177.5		23	56	54	−27	49.0
				0	2	2	−27	15.6
G98	201.8	179.3		23	57	44	−27	47.2
				0	2	52	−27	13.8

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	169.1	190.8						
	233.7	176.3						
P89	201.3	181.0	23	57	42	-27	45.5	
			0	2	50	-27	12.1	
P88	203.9	184.8	23	57	53	-27	41.6	
			0	3	1	-27	8.2	
P120	206.8	178.2	23	58	6	-27	48.2	
			0	3	14	-27	14.8	
Q99	208.8	178.8	23	58	15	-27	47.6	
			0	3	23	-27	14.2	
Q100	207.2	182.2	23	58	8	-27	44.2	
			0	3	16	-27	10.8	
P144	232.0	186.8	23	59	59	-27	39.6	
			0	5	6	-27	6.2	
2716498	136.3	200.2	23	52	25	-27	25.7	
2716528	214.1	228.1	23	58	18	-26	58.0	
	77.8	27.9		5	53		27.7	
Q69	163.3	225.6	23	54	28	-27	0.3	
			23	59	37	-26	26.9	
P70a	171.2	209.0	23	55	3	-27	17.0	
			0	0	12	-26	43.6	
P70b	170.8	209.1	23	55	2	-27	16.9	
			0	0	11	-26	43.5	
2716513	173.8	190.6	23	55	17	-27	35.7	
2716528	214.1	228.2	23	58	18	-26	58.0	
	40.3	37.6		3	1		37.7	
			(see page 18)					
~~P83~~	~~184.0~~	~~191.6~~						
P86	194.9	200.2	23	56	52	-27	26.0	
			0	2	0	-26	52.6	
P82	202.8	209.3	23	57	27	-27	17.0	
			0	2	35	-26	43.6	

4.54

4.48

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	173.8 214.1	190.6 228.2						
G103	202.0	210.3	23 0	57 2	24 32		−27 −26	16.0 42.6
P87	207.9	195.4	23 0	57 2	50 58		−27 −26	30.8 57.4
P85	207.5	198.0	23 0	57 2	48 56		−27 −26	28.2 54.8
P147	211.2	205.2	23 0	58 3	5 13		−27 −26	21.0 48.6
2716528	214.1	228.1	4.52	23	58	18	−26	58.0
2716538	238.3	176.3		0	0	7	−27	50.1
	24.2	51.8			1	49		52.1
P136	228.6	211.3	23 0	59 4	23 30		−27 −26	15.0 41.6
P137	227.6	208.9	23 0	59 4	19 26		−27 −26	17.4 44.0
P142	283.3	209.1	23 0	59 4	44 51		−27 −26	17.2 43.8
G159a	233.1	209.6	23 0	59 4	44 51		−27 −26	16.6 43.2
G101	235.3	190.9	23 0	59 5	54 1		−27 −27	35.4 2.0
2716538	238.3	176.2		0	0	7	−27	50.1
2811	273.3	164.7	4.57	0	2	47	−28	1.2
	35.0	11.5			2	40		11.1
G95	250.2	167.1	0 0	1 6	1 8		−27 −27	58.9 25.5
G94	251.6	167.0	0 0	1 6	8 15		−27 −27	59.0 25.6
P191	268.1	171.0	0 0	2 9	23 29		−27 −27	55.1 21.7

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2716538	238.3	176.2	4.49	0	0	7	-27	50.1	
2718	295.8	194.4		0	4	25	-27	31.3	
	57.5	18.2			4	18			18.8
P178	281.3	183.3		0	3	20	-27	42.8	
				0	8	26	-27	9.4	
P179	284.8	194.0		0	3	35	-27	31.7	
				0	8	41	-26	58.3	
2765 38	238.3	176.2	4.41	0	0	7	-27	50.1	
272	255.1	211.4		0	1	21	-27	14.6	
	16.8	35.2			1	14			35.5
P146	253.1	196.0		0	1	12	-27	30.2	
				0	6	19	-26	56.8	
Comp. 272	255.1	211.3	4.52	0	1	21	-27	14.6	
2718	295.8	194.4		0	4	25	-27	31.3	
	40.7	16.9			3	4			16.7
G102	260.5	194.5		0	1	45	-27	31.3	
				0	6	52	-26	57.9	
P143	262.1	196.2		0	1	53	-27	29.6	
				0	7	0	-26	56.2	
P141	265.2	207.4		0	2	6	-27	18.4	
				0	7	12	-26	45.0	
G132	286.0	202.9		0	3	41	-27	22.9	
				0	8	47	-26	49.5	
G131	288.0	199.1		0	3	50	-27	26.7	
				0	8	56	-26	53.3	
P177	291.5	205.2		0	4	6	-27	20.6	
				0	9	12	-26	47.2	
2616849	134.8	268.5	4.39	23	52	26	-26	17.9	
2716508	165.1	233.9		23	54	39	-26	52.9	
	30.3	34.6			2	13			35.0
P74	145.7	246.0		23	53	14	-26	40.6	
				23	58	23	-26	7.2	

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2716508	160.4	234.0		23	54	39	-26	52.9
2616876	188.0	266.1	4.48	23	56	43	-26	20.8
	27.6	32.1			2	4		32.1
P81	167.6	242.9		23	55	11	-26	44.0
				0	0	20	-26	10.6
P73	168.8	250.8		23	55	17	-26	36.1
				0	0	26	-26	2.7
P80	175.8	259.1		23	55	48	-26	27.8
				0	0	57	-25	54.4
G73	173.5	246.0		23	55	38	-26	40.9
				0	0	47	-26	7.5
G74	174.4	259.6		23	55	42	-26	27.3
				0	0	51	-25	53.9
G75	180.3	265.4		23	56	8	-26	21.5
				0	1	16	-25	48.1
2616849	130.2	268.7	4.43	23	52	26	-26	17.9
2516740	166.2	316.7		23	55	6	-25	29.7
	36.0	48.0			2	40		48.2
P76	148.9	288.5		23	53	49	-25	58.0
				23	58	58	-25	24.6
2516709	119.9	348.6	4.36	23	57	44	-24	59.4
2516740	166.2	316.8		23	55	6	-25	29.7
	46.3	31.8			3	22		30.3
P29	124.7	336.4		23	52	5	-25	11.0
				23	57	15	-24	37.6
P30	129.3	318.2		23	52	25	-25	28.4
				23	57	35	-24	55.0
G76	255.1	348.8		23	54	18	-24	59.2
				23	59	27	-24	25.8
P71	166.1	302.7		23	55	6	-25	43.8
				0	0	15	-25	10.4

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2516740	166.1	316.8		23	55	6	-25	29.7
2516772	213.6	349.4	4.40	23	58	35	-24	58.1
	47.5	32.6			3	29		31.6
P129	177.5	333.4		23	55	56	-25	13.6
				0	1	5	-24	40.2
G 77	194.1	345.0		23	57	9	-25	2.4
				0	2	17	-24	29 0
G 108	209.4	327.3		23	58	16	-25	19.5
				0	3	24	-24	46.1
2516740	166.2	316.8		23	55	6	-25	29.7
2616894	226.6	272.2	4.44	23	59	34	-26	14.2
	60.4	44.6			4	28		44.5
P 78	181.6	302.1		23	56	14	-25	44.4
				0	1	22	-25	11.0
P 77	197.8	301.9		23	57	26	-25	44.6
				0	2	34	-25	11.2
P 79	186.1	279.0		23	56	34	-26	7.4
				0	1	42	-25	34.0
P130	194.3	281.2		23	57	11	-26	5.2
				0	2	19	-25	31.8
P127	211.0	295.9		23	58	25	-25	50.6
				0	3	33	-25	17.2
P169	223.2	297.9		23	59	19	-25	48.6
				0	4	26	-25	15.2
2616894	226.7	272.2		23	59	34	-26	14.2
2516783	237.2	304.9	4.28	0	0	19	-25	41.9
	10.5	32.7				45		32.3
P126	229.1	292.1		23	59	44	-25	54.6
				0	4	51	-25	21.2
P125	234.6	300.6		0	0	8	-25	46.2
				0	5	15	-25	12.8

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2516772	213.6	349.4	4.40	23 58 35	-24	58.1
2516783	237.2	305.0		0 0 19	-25	41.9
	23.6	44.4		1 44		43.8
P124	233.0	320.8		0^w 0^m 0^s	-25	26.4
				0 5 7	-24	53.0
252	252.9	295.7		0 1 28	-25	51.3
2525	286.2	334.3	4.38	0 3 54	-25	12.2
	33.3	38.6		2 26		39.1
P132	254.7	308.8		0 1 36	-25	38.0
				0 6 43	-25	4.6
G109	255.8	316.9		0 1 41	-25	29.8
				0 6 48	-24	56.4
P168	265.0	306.3		0 2 21	-25	40.6
				0 7 27	-25	7.2
P166	278.0	320.5		0 2 34	-25	26.2
				0 7 40	-24	52.8
P175	271.8	304.1		0 2 51	-25	42.8
				0 7 57	-25	9.4
2716508	165.3	233.8	4.47	23 54 39	-26	52.9
2716528	214.3	228.1		23 58 18	-26	58.0
	49.0	5.7		3 39		5.1
G72	194.5	230.9		23 56 50	-26	55.5
				0 1 58	-26	22.1
2716528	214.3	228.1	4.41	23 58 18	-26	58.0
2616894	231.5	272.1		23 59 34	-26	14.2
	17.2	44.0		1 16		43.8
P140	225.1	242.2		23 59 6	-26	43.9
				0 4 13	-26	10.5
P135	229.0	254.9		23 59 23	-26	31.3
				0 4 30	-25	57.9

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2616894	231.6	272.2	23 59 34	-26 14.2	
272	255.2	211.4	0 1 21	-27 14.6	4.53
	23.6	60.8	1 47	60.4	
G 107	239.7	267.2	0 0 11	-26 19.0	
			0 5 18	-25 45.6	
P 173	237.9	258.1	0 5 10	-25 54.7	
			0 0 3	-26 28.1	
P 139	249.9	233.4	0 0 57	-26 52.8	
			0 6 4	-26 19.4	
P 138	251.4	234.0	0 1 4	-26 52.2	
			0 6 11	-26 18.8	
272	255.2	211.4	0 1 21	-27 14.6	
2635	303.4	260.0	0 4 53	-26 25.6	
	48.2	48.6	3 32	49.0	
G 104	266.1	224.1	0 2 9	-27 1.7	
			0 7 15	-26 28.3	
G 105	255.4	241.6	0 1 22	-26 44.2	
			0 6 29	-26 10.8	
G 151	270.4	244.6	0 2 28	-26 41.2	
			0 7 34	-26 7.8	
P 172	274.7	237.8	0 2 47	-26 48.0	
			0 7 53	-26 14.6	
P 171	276.1	253.0	0 2 52	-26 32.8	
			0 7 58	-25 59.4	
P 174	288.7	255.4	0 3 48	-26 30.4	
			0 8 54	-25 57.0	
G 149	300.0	232.9	0 4 38	-26 52.9	
			0 9 44	-26 19.5	
P 190	298.1	248.2	0 4 30	-26 37.6	
			0 9 36	-26 4.2	

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252	257.9	295.7	4.51	0 1 28	−25	51.3
2635	303.4	260.0		0 4 53	−26	25.6
	45.5	35.7		3 25		34.3
G106	261.5	261.4		0 1 44	−26	24.3
				0 6 51	−25	50.9
P133	265.0	262.9		0 2 0	−26	22.8
				0 7 6	−25	49.4
P165	279.+	278.3		0 3 4	−26	8.0
				0 8 10	−25	34.6
G153	280.5	279.0		0 3 10	−26	7.4
				0 8 16	−25	34.0
G154	284.3	281.9		0 3 27	−26	4.6
				0 8 33	−25	31.2
G152	286.2	268.4		0 3 36	−26	17.6
				0 8 42	−25	44.2
P170	287.8	267.9		0 3 43	−26	18.0
				0 8 49	−25	44.6
P176	285.4	261.6		0 3 32	−26	24.2
				0 8 38	−25	50.8
2635	803.4	260.0	4.52	0 4 53	−26	25.6
2657	353.9	234.1		0 8 41	−26	50.5
	50.5	25.9		3 48		24.9
G150	306.3	253.1		0 5 6	−26	32.2
				0 10 12	−25	58.8
3010	273.8	8.6	4.57	0 2 56	−30	30.5
3033	316.9	31.6		0 6 13	−30	12.1
	43.1	23.0		3 17		23.4
P209	294.0	20.4		0 4 28	−30	23.5
				0 9 34	−29	50.1
P210	300.3	17.0		0 4 57	−30	26.9
				0 9 3	−29	53.5
				10		

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	273.8	8.6						
	316.9	31.6						
P211	309.6	12.2	0	5	40	−30	31.3	
			0	10	45	−29	57.9	
P251	296.7	24.6	0	4	41	−30	19.3	
			0	9	47	−29	45.9	
3012	275.0	46.0	0	2	59	−29	58.5	
2936	331.6	91.2	0	7	14	−29	12.5	
	56.6	45.2		4	15		46.0	
P195	303.5	49.1	0	5	7	−29	55.4	
			0	10	12	−29	22.0	
G111	305.3	50.0	0	5	16	−29	54.4	
			0	10	21	−29	21.0	
P194	308.9	55.2	0	5	32	−29	49.1	
			0	10	37	−29	15.7	
G112	319.0	59.8	0	6	17	−29	44.5	
			0	11	22	−29	11.1	
P230	326.1	86.6	0	6	49	−29	17.2	
			0	11	54	−28	43.8	
P227	305.6	63.1	0	5	17	−29	41.1	
			0	10	22	−29	7.7	
P212	301.2	67.0	0	4	57	−29	37.1	
			0	10	2	−29	3.7	
G115	321.4	68.6	0	6	27	−29	34.5	
			0	11	34	−29	1.8	
G116	322.7	69.0	0	6	34	−29	35.1	
			0	11	39	−29	1.7	
G159	299.5	74.1	0	4	49	−29	29.9	
			0	9	55	−28	56.5	
G117	294.0	80.0	0	4	25	−29	23.9	
			0	9	31	−28	50.5	
G118	306.0	81.2	0	5	19	−29	22.7	
			0	10	24	−28	49.3	

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	275.0	46.0						
	331.6	91.2						
G160	307.9	78.8		0	5	28	−29	25.1
				0	10	33	−28	51.7
G119	310.0	81.5		0	5	37	−29	22.4
				0	10	42	−28	49.0
G120	316.3	79.4		0	6	5	−29	24.5
				0	11	10	−28	51.1
P204[a]	318.7	79.3		0	6	16	−29	24.6
				0	11	21	−28	51.2
P205[a]	323.4	74.4		0	6	37	−29	29.7
				0	11	42	−28	56.3
3033	316.8	31.6	4.54	0	6	13	−30	12.1
2950	368.2	68.8		0	10	6	−29	34.5
	51.4	37.2			3	53		37.6
G113	331.7	52.5		0	7	20	−29	51.0
				0	12	25	−29	17.6
P228	331.7	57.3		0	7	20	−29	46.2
				0	12	25	−29	12.8
P225[a]	341.1	48.7		0	8	3	−29	54.8
				0	13	8	−29	21.4
P223	347.8	54.0		0	8	34	−29	49.5
				0	13	38	−29	16.1
2936	331.5	91.1		0	7	14	−29	12.5
2950	368.2	68.8	4.68	0	10	6	−29	34.5
	36.7	22.3			2	52		22.0
P231	336.0	81.2		0	7	35	−29	22.2
				0	12	40	−28	48.8
G121	343.9	88.5		0	8	12	−29	15.0
				0	13	16	−28	41.6
P229	353.1	79.5		0	8	55	−29	24.0
				0	13	59	−28	50.6

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2950	368.2	68.8	0	10	6	-29	34.5
3063	388.0	23.1	0	11	41	-30	18.0
	19.8	45.7		1	35		43.5
(out) P224	367.9	56.5	0	10	5	-29	46.2
			0	15	9	-29	12.8
G 114	369.0	46.7	0	10	10	-29	55.5
			0	15	14	-29	22.1
2950	368.2	68.8	0	10	6	-29	34.5
2955	391.9	84.9	0	11	51	-29	19.0
	23.7	16.1		1	45		15.5
G 122	382.0	74.1	0	11	7	-29	29.4
			0	16	10	-28	56.0
2823	316.2	138.0	0	6	0	-28	26.2
2955	391.9	84.9	0	11	51	-29	19.0
	75.7	53.1		5	51		52.8
G 123	321.2	120.3	0	6	23	-28	43.8
			0	11	28	-28	10.4
P203	336.5	117.0	0	7	34	-28	47.0
			0	12	39	-28	13.6
P233	346.9	103.0	0	8	22	-29	1.0
			0	13	26	-28	27.6
P219	357.9	113.2	0	9	14	-28	51.0
			0	14	18	-28	17.6
P220	369.5	115.8	0	10	7	-28	48.2
			0	15	11	-28	14.8
P221	371.4	116.1	0	10	17	-28	48.0
			0	15	21	-28	14.6
P218	370.6	128.3	0	12	12	-28	35.8
			0	15	16	-28	2.4
P225	367.9	95.2	0	10	0	-29	9.0
			0	15	4	-28	35.6

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P234	377.5	104.0		0	10	45	−29	0.0
				0	15	49	−28	26.6
2865	394.7	126.0		0	11	56	−28	37.1
2975	425.3	104.0	4.61	0	14	17	−28	56.5
	30.6	22.0			2	21		19.4
P249	420.3	113.8		0	13	54	−28	47.9
				0	18	57	−28	14.5
2811	273.3	164.7		0	2	47	−28	1.2
2823	316.1	137.9	4.52	0	6	0	−28	26.2
	42.8	26.8			3	13		25.0
P183	289.5	156.0		0	4	0	−28	9.3
				0	9	6	−27	35.9
P193	305.9	141.2		0	5	14	−28	23.2
				0	10	19	−27	49.8
P197	304.7	150.3		0	5	8	−28	14.6
				0	10	13	−27	41.2
P182	289.4	164.6		0	3	59	−28	1.3
				0	9	5	−27	27.9
2811	273.3	164.7		0	2	47	−28	1.2
2718	295.7	194.3	4.38	0	4	25	−27	31.3
	22.4	29.6			1	38		29.9
P180	276.4	173.5		0	3	1	−27	52.2
				0	8	7	−27	18.8
P181	272.0	174.3		0	2	41	−27	51.4
				0	7	47	−27	18.0
2865	394.5	125.8		0	11	56	−28	37.1
2886	434.0	148.4	4.33	0	14	48	−28	12.1
	39.5	22.6			2	52		25.0
P248	399.7	135.3		0	12	19	−28	26.6
				0	17	25	−27	53.2
G124	408.5	138.9		0	12	57	−28	22.6
				0	18	1	−27	49.2
P246	420.3	145.3		0	13	48	−28	15.6
				0	18	52	−27	42.2

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2847	360.0	158.7	4.60	0	9	17	−28	4.8
2865	394.6	125.9		0	11	56	−28	37.1
	34.6	32.8			2	39		32.3
G125	366.2	154.0		0	9	45, 47	−28	9.4
				0	14	50	−27	36.0
P235	385.2	147.2		0	11	13	−28	16.1
				0	16	18	−27	42.7
P247	390.8	142.7		0	11	39	−28	20.6
				0	16	33 43	−27	47.2
2847	360.0	158.7		0	9	17	−28	4.8
2871	407.5	170.1	4.42	0	12	47	−27	52.2
	47.5	11.8			3	30		12.6
G126	365.4	159.0		0	9	41	−28	4.5
				0	14	46	−27	31.1
P213	364.6	160.2		0	9	37	−28	3.2
				0	14	42	−27	29.8
P236	383.3	164.9		0	11	0	−27	58.2
				0	16	4	−27	24.8
2718	295.8	194.3		0	4	25	−27	31.3
2847	360.0	158.7		0	9	17	−28	4.8
	64.2	35.6			4	52		33.5
G129	326.3	169.2		0	6	44	−27	54.9
				0	11	49	−27	21.5
G128	326.6	169.2		0	6	45	−27	54.9
				0	11	50	−27	21.5
G127	327.5	168.0		0	6	49	−27	56.0
				0	11	54	−27	22.6
G130	321.4	159.8		0	6	21	−28	3.8
				0	11	26	−27	30.4
P215	331.4	181.5		0	7	7	−27	43.3
				0	12	12	−27	9.9

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	295.8	194.3				
	360.0	158.7				
P201	332.4	179.9	0 7 11	-27	44.8	
			0 12 16	-27	11.4	
P202	334.9	162.7	0 7 23	-28	1.1	
			0 12 28	-27	27.7	
P214	342.4	159.8	0 7 57	-28	3.8	
			0 13 2	-27	30.4	
2722	314.8	225.3	0 5 49	-26	59.3	
2737	337.7	200.0	4.54 0 7 33	-27	25.0	
	22.9	25.3	1 44		25.7	
P204	315.5	218.8	0 5 52	-27	6.0	
			0 10 58	-26	32.6	
G134	324.9	215.9	0 6 35	-27	8.9	
			0 11 41	-26	35.5	
P203	323.7	205.9	0 6 30	-27	18.9	
			0 11 36	-26	45.5	
G133	326.0	204.7	0 6 40	-27	20.1	
			0 11 46	-26	46.7	
P205	335.3	215.9	0 7 22	-27	8.9	
			0 12 28	-26	35.5	
2737	337.7	200.0	4.42 0 7 33	-27	25.0	
2760	393.9	217.0	0 11 42	-27	5.6	
	56.2	17.0	4 9		19.4	
G136	345.0	206.5	0 8 5	-27	17.6	
			0 13 10	-26	44.2	
G137	377.3	212.9	0 10 29	-27	10.3	
			0 15 34	-26	36.9	
2635	303.1	260.0	0 4 53	-26	25.6	
2653	351.9	278.6	4.39 0 8 27	-26	6.5	
	48.8	18.6	3 34		19.1	
G148	344.2	264.8	0 7 53	-26	20.7	
			0 12 59	-25	47.3	

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2722	314.8	225.3	4,45	0	5	49	-26	59.3
2657	353.5	234.2		0	8	41	-26	50,5
	38.7	8.9			2	52		8.8
P200	334.4	229.4		0	7	16	-26	55.2
				0	12	22	-26	21.8
G135	338.2	229.3		0	7	33	-26	55.4
				0	12	39	-26	22.0
P222	347.0	227.1		0	8	12	-26	57.5
				0	13	17	-26	24.1
2657	353.5	234.1	4,39	0	8	41	-26	50,5
2681	411.1	254.8		0	12	54	-26	28,1
	57.6	20.7			4	13		22.4
G138	379.6	238.0		0	10	36	-26	46.3
				0	15	41	-26	12.9
G139	385.4	245.2		0	11	1	-26	38.5
				0	16	5	-26	5.1
2760	393.9	217.0	4.39	0	11	42	-27	5.6
2690	432.9	231.8		0	14	33	-26	50.6
	39.0	14.8			2	51		15.0
P245	409.0	223.0		0	12	48	-26	59.5
				0	17	52	-26	26.1
P256	427.7	220.9		0	14	10	-27	1.6
				0	19	13	-26	28.2
2771	411.4	194.7	4.23	0	13	2	-27	27.4
2690	432.9	231.8		0	14	33	-26	50.6
	21.5	37.1			1	31		36.8
P 252	419.7	199.0		0	13	37	-27	23.2
				0	18	41	-26	49.8
P 255	428.2	206.2		0	13	13	-27	15.9
				0	19	17	-26	42.5

(cont)

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G 110	427.1	204.0		0	14	8	−27	18.2
				0	19	11	−26	44.8
P 254	428.7	207.2		0	14	15	−27	15.0
				0	19	18	−26	41.7
2760	393.9	217.0		0	11	42	−27	5.6
2771	411.3	194.7	4.61	0	13	2	−27	27.4
	17.4	22.3			1	20		21.8
P 244	402.2	212.8		0	12	20	−27	9.6
				0	17	24	−26	36.2
2653	382.0	278.5	4.61	0	8	27	−26	6.5
2681	411.1	254.9		0	12	54	−26	28.1
	59.1	23.6			4	27		21.6
P 239	376.1	260.1		0	10	16	−26	23.3
				0	15	21	−25	49.9
G 140	405.4	271.3		0	12	29	−26	13.1
				0	17	33	−25	39.7
2683	419.4	266.3	4.31	0	13	29	−26	16.0
26102	450.3	280.8		0	15	42	−26	1.7
	30.9	14.5			2	13		14.3
G 141	425.6	279.7		0	13	56	−26	2.7
				0	19	0	−25	29.3
P 250	448.9	273.1		0	15	36	−26	9.3
				0	20	39	−25	36.0
2584	407.7	293.8		0	12	33	−25	49.8
2596	440.4	302.2	4.38	0	14	56	−25	40.8
	32.7	8.4			2	23		9.0
G 142	428.2	298.8		0	14	3	−25	44.4
				0	19	6	−25	11.1
2591	428.7	343.8		0	13	57	−24	59.8
2599	446.4	327.3	4.55	0	15	18	−25	15.4
	17.7	16.5			1	21		15.6
P 253	430.6	238.8		0	14	6	−25	4.5
				0	19	9	−24	31.2

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2567	376.5	342.7	4.57	0	10	10	−25 2.3
2584	407.8	293.8		0	12	33	−25 49.8
	31.3	48.9			2	23	47.5
G143	403.0	312.0		0	12	11	−25 32.1
				0	17	15	−24 58.7
P257	404.2	335.9		0	12	17	−25 8.9
				0	17	21	−24 35.5
P240	377.7	317.9		0	10	16	−25 26.4
				0	15	21	−24 53.0
2543	329.4	298.8		0	6	46	−25 47.2
2567	376.5	342.7	4.33	0	10	10	−25 2.3
	47.1	43.9			3	24	44.9
P241	340.5	314.6		0	7	34	−25 31.0
				0	12	40	−24 57.6
G145	365.2	311.1		0	9	21	−25 34.6
				0	14	26	−25 1.2
P243	367.0	329.5		0	9	29	−25 15.8
				0	14	34	−24 42.4
P242	374.4	330.1		0	10	1	−25 15.2
				0	15	6	−24 41.8
G146	340.5	307.5		0	7	34	−25 38.3
				0	12	40	−25 4.9
2543	329.5	298.7	4.46	0	6	46	−25 47.2
2653	352.1	278.6		0	8	27	−26 6.5
	22.6	20.1			1	41	19.3
P208	333.0	286.7		0	7	2	−25 58.7
				0	12	8	−25 25.3

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2653	352.1	278.6		0	8	27	−26	6.5
2584	407.8	293.8	4.42	0	12	33	−25	48.9
	55.7	15.2			4	6		17.6
G144	378.0	293.6		0	10	21	−25	49.1
				0	15	26	−25	15.7
2525	291.0	334.3		0	3	54	−25	12.2
2543	329.5	298.7	4.47	0	6	46	−25	47.2
	38.5	35.6			2	52		35.0
P206	313.3	331.0		0	5	34	−25	15.4
				0	10	40	−24	42.0
P209 b	324.0	314.0		0	6	21	−25	32.2
				0	11	27	−24	58.8
G147	314.0	306.9		0	5	37	−25	39.1
				0	10	43	−25	5.7
2635	303.2	260.0	4.28	0	4	53	−26	25.6
2543	329.5	298.8		0	6	46	−25	47.2
	26.3	38.8			1	53		38.4
P198	316.4	295.3		0	5	50	−25	50.5
				0	10	56	−25	17.1
P207 b	329.1	293.6		0	6	44	−25	52.2
				0	11	50	−25	18.8
2918877	89.8	102.1		23	48	53	−29	2.9
2918891	122.7	64.7	4.50	23	51	21	−29	40.3
	32.9	37.4			2	28		37.4
G146	113.6	86.1		23	50	40	−29	18.9
				23	55	50	−28	45.5
P55	116.1	79.8		23	50	52	−29	25.2
				23	56	2	−28	51.8

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2918907	155.8	92.9	4.59	23	53	53	-29	11.7
2918934	200.1	97.9		23	57	16	-29	7.3
	44.3	5.0			3	23		4.4
P 58	157.9	96.1		23	54	2	-29	8.9
				23	59	11	-28	35.5
2918953	230.3	180.6	4.5	23	59	34	-29	24.6
2926	301.1	102.2		0	4	53	-29	2.5
	70.8	21.6			5	19		22.1
P 160	247.2	81.9		0	0	50	-29	15.0
				0	5	57	-28	41.6
P 161	276.8	97.0		0	2 1	18 33	-29	8.0
				0	6 7	40 25	-28	34.6
2847	360.0	158.8		0	9	17	-28	4.8
2771	411.5	195.7	4.37	0	13	2	-27	27.4
	51.5	36.9			3	45		37.4
P 237	388.7	182.6		0	11	22	-27	40.8
				0	16	26	-27	7.4
2918953	25.2	80.3		23	59	34	-29	24.6
3012	69.8	45.6	4.59	0	2	59	-29	58.5
	44.6	34.7			3	25		33.9
P 189	35.4	78.7		0	0	21	-29	26.2
				0	5	28	-28	52.8
2516740	15.3	16.2		23	55	6	-25	29.7
2516783	86.4	4.5	4.39	0	0	19	-25	41.9
	71.1	11.7			5	13		12.2
G 162	49.9	11.0		23	57	38	5 -29	35.1
				0	2	46	-25	1.7
2716513	18.6	40.3	4.51	23	55	17	-27	35.7
2716528	58.7	77.8		23	58	18	-26	58.0
	40.1	37.5			3	1		37.7
G 165	52.0	52.5		23	57	47	-27	23.5
				0	2	55	-26	50.1

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1927phae.proj.2310A

Total No. of objects 401.

Plotted off 11
2 other errors also
Read wrong 13
3 other errors also
Precession correction wrong 10
1 other error also
Copied on cards wrong 2

Computed wrong 1

Total Errors 37, on 34 nebulae.

2818423	47.7	95.2	23	53	41	−28	20.3
2918934	94.9 / 47.2	47.3 / 47.9	23.	57 / 3	16 / 35	−29	7.3 / 47.0
G 163	49.9	60.7	23	53	51	−28	54.3
			23	59	0	−28	20.9
G 164	89.0	72.3	23	56	49	−28	42.8
			0	1	57	−28	9.4
2918907	0.6	42.2	23	53	53	−29	11.7
3019799	56.3 / 55.7	1.1 / 41.1	23	58 / 4	7 / 14	−29	53.2 / 41.5
G 166	32.0	12.3	23	56	15	−29	41.8
			0	1	23	−29	8.4

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2er

Calculation of precession: remember:

Angle	Sin	Cos.	Tan	Cot
x	$+\sin x$	$+\cos x$	$+\tan x$	$+\cot x$
$90+x$	$+\cos x$	$-\sin x$	$-\cot x$	$-\tan x$
$180+x$	$-\sin x$	$-\cos x$	$+\tan x$	$+\cot x$
$270+x$	$-\cos x$	$+\sin x$	$-\cot x$	$-\tan x$.

For minus declination take trig. function minus.

In using $\sin \alpha$ in formula Right Ascension must be changed from h, m, s to °, ′, ″,

$1^h = 15^\circ$

$1^m = 15'$

$1^s = 15''$

Logarithms characteristic

Log XXX = 2. XXX

XX.X = 1. XXX

X.XX = .XXX

.XXX = 9. XXX −10

.0XXX = 8. XXX −10

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1927phae_proj_2319A

Precession Correction:

See Newcomb, Astronomical Papers of the American Ephemeris, Volume VIII, page 73.
For values of the precession to the year 2000.

From Berliner Astronomische Jahrbuch.
Hilfstafeln -
The formulae are given for computing precession:

$$P_\alpha = m + \frac{1}{15} n \sin\alpha \tan\delta$$
$$P_\delta = n \cos\alpha$$

For A 12546 $\quad \alpha_{1900} = \alpha_{2000} + 5^m +$

	23^h					0^h						
	45^m	48^m	51^m	54^m	57^m	0^m	3^m	6^m	9^m	12^m	15^m	18^m
	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}	^{s}
-25°	11	11	10	9	8	7	7	6	4	3	3	2
-26°	12	11	10	9	8	7	6	6	5	4	3	2
-27°	12	11	10	9	8	7	6	6	5	4	3	2
-28°	12	11	10	9	8	7	6	5	5	4	3	2
-29°	12	11	10	9	8	7	6	5	4	3	2	2
-30°	12	11	10	9	8	7	6	5	4	3	2	1
-31°	12	12	10	9	8	7	6	5	4	3	2	1
			$\delta_{1900} = \delta_{2000}$									
	33.3	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.3	33.3

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Precession for A 3386 from 1900 to 2000.

$\alpha_{1900} = \alpha_{2000} + 5^m \pm$ tabulated quantity.

0^h

	22^m	25	28	31	34	37	40	43	46	49	52	55	58^m
$-23°$	$+2^s$	$+1^s$	$+0^s$	-1^s	-2^s	-2^s	-3^s	-3^s	-4^s	-5^s	-5^s	-6^s	-7^s
$-24°$	+2	+1	±0	−1	−1	−2	−3	−4	−5	−5	−6	−7	-8^s
$-25°$	+1	+1	0	−1	−2	−3	−3	−4	−5	−6	−7	−7	−8
$-26°$	+1	0	−1	−1	−2	−3	−4	−5	−6	−7	−8	−8	−9
$-27°$	+1	0	−1	−2	−3	−4	−4	−5	−6	−7	−8	−9	−10
$-28°$	+1	0	−1	−2	−3	−4	−5	−6	−7	−8	−9	−10	−10
	33.3	33.2	33.2	33.1	33.0	33.0	32.9	32.8	32.7	32.6	32.5	32.4	32.4

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1927phae.proj..231O

Magnitudes of nebulae on A 12546.

Sequences:

		II	
104. K.		α	14.5
(B 45696)		β	15.1
–		γ	15.5
6)	10.7	δ	16.1
7	11.4	ε	16.5
8	11.4	ζ	17.0
9	11.5	η	17.7
10	12.0	θ	17.9
11	12.3		
12	12.4		
13	12.6	III	
14	12.9	ι	14.4
15.	13.5	κ	14.7
Extrapolation:		λ	15.4
a	14.0	μ	15.6
b	14.5	ν	16.0
c	15.0	ξ	16.6
d	15.5	ο	16.8
e	16.0	π	17.2
f	16.5	ρ	17.8
g	17.0	σ	18.0
h	17.5		
k.	18.0		

–

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Magnitudes A 12546

G 83	16.5	16.6	16.6	±, 0
G 84	17.7	17.6	17.6	1, 0
G 85	17.5	17.5	17.5	0, 0
P 114	17.6	17.8	17.7	±, 1
P 115	16.9	17.1	17.0	±, 1
P 164	17.1	17.0	17.0	1, 0
P 165a	17.4	17.4	17.4	0, 0
G 82	16.7	16.8	16.8	±, 0
G 79	17.8	17.9	17.8	0, 1
G 80	16.4	16.5	16.4	0, 1
G 81	17.9	18.0	18.0	±, 0
P 106	17.3	17.4	17.4	±, 0
P 159	16.4	16.6	16.5	±, 1
P 156	17.4	17.2	17.3	1, ±
P 155	17.5	17.3	17.4	1, ±
P 149	15.2	15.2	15.2	0, 0
P 184	17.0	17.0	17.0	0, 0
P 121	17.6	17.3 17.2	17.4	2, ±, ±
P 119	16.6	16.7	16.6	0, 1
G 89	17.8	17.6	17.7	1, ±
G 88	17.7	17.7	17.7	0, 0
P 99	17.6	17.4	17.5	1, ±
P 100	16.1	15.9	16.0	1, ±
P 116	16.7	16.6	16.6	1, 0
G 56	17.5	17.5	17.5	0, 0
P 117	17.5	17.6	17.6	±, 0
P 66	17.4	17.3	17.4	0, ±
G 55	17.9	17.8	17.8	1, 0
G 51	17.7	18.0	17.8	±, ±
P 58	16.3	16.1	16.2	1, ±

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G 52	17.8	18.0	17.9	±,1	P 57	17.0	16.7	16.8	2,±
G 50	17.8	17.9	17.8	0,1	P 56	17.4	17.4	17.4	0,0
G 49	17.7	17.8	17.8	±,0	G 43	17.5	17.5	17.5	0,0
G 48	17.8	17.8	17.8	0,0	G 44	17.6	17.5	17.6	0,±
G 47	17.2	17.1	17.2	0,±	P 54	15.2	15.4	15.3	±,1
G 42	17.2	17.3	17.2	0,1	P 55	17.2	17.2	17.2	0,0
P 105	17.1	17.2	17.2	±,0	G 45	17.8	17.8	17.8	0,0
P 107	17.5	17.5	17.5	0,0	P 43a	~~16.7~~	16.2 16.4	3 16.3	1,±
P 62	17.3	17.3	17.3	0,0	P 43b	~~16.6~~	15.7 15.8 16.2	15.9	±13
P 63	17.4	17.4	17.4	0,0	P 44	16.7	16.5	16.6	1,±
P 61	17.0	16.8	16.9	1,±	P 45	16.9	16.7	16.8	1,±
P 60	17.0	17.0	17.0	0,0	G 3	16.8	16.6	16.7	1,±
G 40	17.9	17.9	17.9	0,0	G 34	16.8	16.8	16.8	0,0
G 41	17.4	17.6	17.5	±,1	P 49	16.8	17.0	16.9	±,1
G 39	17.5	17.5	17.5	0,0	G 35	16.7	16.8	16.8	±,0

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P 52	17.6	17.5	17.6	0, 1	P 208a	16.8	16.6	16.7	1, 1
P 46	~~16.1~~ 15.4	15.4 15.7	15.5	1 1 2	P 207a	16.5	16.3	16.4	1, 1
G 36	17.5	17.5	17.5	0, 0	P 189	17.4	17.4	17.4	0, 0
P 48	16.5	16.3	16.4	1, 1			No position		
G 38	16.8	16.7	16.8	0, 1	P 160	17.2	17.2	17.2	0, 0
P 47	16.0	15.7 15.5	15.7	3, 0, 3	P 161	17.2	17.1	17.2	0, 1
P 50	17.2	17.0	17.1	1, 1	P 188	16.8	16.8	16.8	0, 0
P 51	17.0	16.8	16.9	1, 1	P 162	17.0	17.1	17.0	0, 1
G 37	17.5	17.3	17.4	1, 1	G 91.1	17.3	17.3	17.3	0, 0
P 53	16.9	16.9	16.9	0, 0	P G 157	16.9	17.0	17.0	1, 0
P 112	17.3	17.2	17.2	1, 0	P G 187	16.5	16.6	16.6	1, 0
P 103	16.3	16.3	16.3	0, 0	P 158	17.5	17.5	17.5	0, 0
P 104	17.2	16.9	17.0	2, 1	P 154	16.6	16.5	16.6	0, 1
P 111	17.0	16.8	16.9	1, 1	P 151	17.4	17.4	17.4	0, 0
P 110	16.6	16.5	16.6	0, 1	G 93	18.0	17.8	17.9	1, 1
					G 92	17.3	17.2	17.2	1, 0

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P 148	17.4	17.3	17.4	0, 1
P 150	17.5	17.5	17.5	0, 0
NGC 7.	14.0::	14.3:	14.2::	2, 1
P 251	16.9	17.1	17.0	1, 1
P 209a	16.6	16.7	16.6	0, 1
P 210	16.3	16.6	16.4	1, 2
P 211	16.6	16.7	16.6	0, 1
P 195	17.3	17.3	17.3	0, 0
G 111	17.6	17.6	17.6	0, 0
P 194	15.4	15.3	15.4	0, 1
P 227	17.3	17.2	17.2	1, 0
P 212	17.6	17.5	17.6	1, 1
G 159 b	17.7	17.5	17.6	1, 1
st. att. G 117	17.4:	17.6	17.5:	1, 1
G 160	17.1	17.2	17.2	1, 0

G 118	17.4	17.6	17.5	1, 1
G 119	17.7	17.6	17.6	1, 0
G 120	17.9	17.8	17.8	1, 0
G 112	17.5	17.4	17.4	1, 0
G 115	17.6	17.4	17.5	1, 1
G 116	17.6	17.4	17.5	1, 1
P 205a	16.6	16.7	16.6	0, 1
P 204a	16.7	16.8	16.8	1, 0
P 230	16.9	16.8	16.8	1, 0
P 231	17.6	17.6	17.6	0, 0
G 121	17.5	17.3	17.4	1, 1
P 229	17.3	17.1	17.2	1, 1
G 113	16.9	16.9	16.9	0, 0
P 228	17.6	17.5	17.6	0, 1
P 225a	17.5	17.6	17.6	1, 0

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P223	17.1	17.2	17.2	1,0
P224	15.7	15.8	15.8	1,0
G 114	16.8	16.8	16.8	0,0
G 99	17.7	17.6	17.6	1,0
G 100	17.8	17.8	17.8	0,0
P 88	16.4	16.6	16.5	1,0
P 89	17.9	17.8	17.8	1,0
G 98	17.8	17.7	17.8	0,1
P 120	~~15.7 16.2~~	15.6 15.8	15.7	1 0 1
P 122	16.6	16.7	16.6	0,1
G 96	17.8	17.9	17.8	0,1
G 158	17.9	17.7	17.8	1,1
G 97	16.5	16.6	16.6	1,0
P 98	16.8	17.1	17.0	2,1
G 157	17.9	17.8	17.8	1,0
G 68	17.8	17.9	17.8	0,1
P 83	17.0	17.0	17.0	0,0
G 67	17.6	17.6	17.6	0,0
P 84	17.5	17.5	17.5	0,0
P 68	15.9	16.0	16.0	1,0
P 69	17.5	17.5	17.5	0,0
G 66	17.9	17.7	17.8	1,1
P a	17.7	17.9	17.8	1,1
G 156	18.0	17.9	18.0	0,1
P 38	17.2	17.4	17.3	1,1
G 70	17.8	17.8	17.8	0,0
G 71	17.9	17.9	17.9	0,0
G 33	17.9	17.8	17.8	1,0
G 32	17.1	16.9	17.0	1,1

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G 31	16.6	16.5	16.6	0, 1
P 23	17.4	17.1	17.2	2, 1
P 24	~~16.9~~ 16.4	16.5:	16.4:	0, 1
P 25	17.3	17.0:	17.2:	1, 2
G 28	17.1	16.9	17.0	1, 1
G 30	two stars			
G 29	16.4	16.3	16.4	0, 1
P 37	16.0	16.3	16.2	2, 1
P 36	16.7	16.9	16.8	1, 1
P 35	15.0 15.0	15.4	15.1	1, 1, 3
G 65	16.6	16.5	16.6	0, 1
P 33	16.7	16.9	16.8	1, 1
G 64	16.8	17.0	16.9	1, 1
P 32	16.5	16.8	16.6	1, 2
G 63	16.4	16.6	16.5	1, 1

G 155	17.3	17.4	17.4	1, 0
G 25	17.8	17.7	17.8	0, 1
P 21	15.7	15.7	15.7	0, 0
P 22	16.4	16.3	16.4	0, 1
G 27	17.4	17.5	17.4	0, 1
G 26	17.8	17.7	17.8	0, 1
G 161	17.5	17.8	17.6	1, 2
G 24	~~17.4~~ 17.3	17.5 17.7	17.5	2 1 0 2
G 23	17.7	17.6	17.6	1, 0
G 22	17.6	17.7	17.6	0, 1
G 21	17.2	17.0	17.1	1, 1
G 20	16.1	16.4	16.2	1, 2
G 19	17.2	17.2	17.2	0, 0
G 18	16.9	17.1	17.0	1, 1
P 21 bis	16.3	16.2	16.2	1, 0

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P20	16.2	16.5	16.4	±1
G15	16.9	16.8	16.8	1,0
P17	14.8 15.1	~~15.6~~ 15.0	15.0:	1 ±0
G17	17.7	17.6	17.6	1,0
P16	16.2	16.5	16.4	±1
G16 st. att.	16.2	16.0	16.1	1,1
G11 stall.	15.3	15.4	15.4	1,0
G10	16.5	16.7	16.6	1,1
G9	17.0	17.3	17.2	±1
P13 I 5362	14.7:	14.5:	14.6:	1,1
P15	16.2	16.0	16.1	1,1
P14	15.4	15.6	15.5	1,1
G8	16.6	16.8	16.7	1,1
G14	16.9	17.2	17.0	1,2
P12 I 5363	16.8	17.0	16.9	1,1
P10	16.0	16.2	16.1	1,1
P11	17.6	17.5	17.6	0,1
G12	17.8	17.6	17.7	1,1
G6	15.9	15.8:	15.8:	1,0
G7	17.2:	17.1:	17.2:	0,1
P7	16.1:	15.9	16.0:	1,1
P6	14.6 14.4:	14.8	14.6:	±2,0
P4	16.4:	16.6	16.5:	1,1
G4	16.3:	16.3	16.3:	0,0
P3	16.8:	16.7	16.8:	0,1
G1	16.8:	17.1	17.0:	±1
P1	16.2:	16.4	16.3:	1,1
P2	15.1:	15.4	15.2:	1,2
G2	17.2:	17.0:	17.1:	1,1
P5	17.0	17.0	17.0	0,0

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G 5	17.8:	17.6	17.7	1,1
P 8	17.1:	17.2	17.2	1,0
P 9	15.7:	15.6	15.6	1,0
G 46	17.0	17.3	17.2	1,1
P 64	16.8	16.9 17.0	17.0	1,0
G 53	17.3	17.4	17.4	1,0
G 54	16.3	16.3	16.3	0,0
~~P 41~~	~~16.7~~	~~17.5~~	possibly a defect?	
G 78	18.0	18.0	18.0	0,0
P 101	16.5	16.6	16.6	1,0
sts? G 57	15.8	15.9	15.8	0,1
P 118	17.0	17.0	17.0	0,0
G 58	17.2	17.4	17.3	1,1
P 67	17.3	17.5	17.4	1,1
G 59	17.5	17.3	17.4	1,1
P 97	17.5	17.3	17.4	1,1
P 96	17.6	17.5	17.6	0,1
G 61	17.8	17.7	17.8	0,1
G 62	17.9	17.6	17.8	1,2
P 90	15.5	15.5	15.5	0,0
P 91	16.3	16.3	16.3	0,0
P 92	16.2	16.2	16.2	0,0
P 94	15.6	15.8	15.7	1,1
P 95	16.9	17.1	17.0	1,1
P 93	14.8	14.7	14.8	0,1
G 60	17.3	17.2	17.2	0,1
G 90	17.9	17.9	17.9	0,0
P 237	16.7	16.6	16.6	1,0
P 252	17.2	17.1	17.2	0,1

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G.110.	16.8	16.9	16.8	0,1	G135	17.9	17.7	17.8	1,1
P.255	16.1	15.8 15.7	15.9	2,1,2	P200	17.4	17.4	17.4	0,0
P.254	16.8	16.8	16.8	0,0	P205.b	17.4	17.2	17.3	1,1
P.256	17.0	17.0	17.0	0,0	G136	17.6	17.5	17.6	0,1
P.244	16.6	16.6	16.6	0,0	G133	17.7	17.9	17.8	1,1
P.245	17.0	17.1	17.0	0,1	P203.b	17.2	17.4	17.3	1,1
P.250	15.8	15.5 15.4	15.6	2,1,2	G134	17.7	17.8	17.8	1,0
G.142	16.3	16.0	16.2	1,2	P204.b	17.3	17.4	17.4	1,0
G.141	17.1	16.8	17.0	1,2	P177	16.4	16.7	16.6	2,1
G.140	17.5	17.5	17.5	0,0	G132	17.4	17.3	17.4	0,1
P.239.	17.6	17.4	17.5	1,1	G131	18.0	18.0	18.0	0,0
G.139.	17.8	17.7	17.8	0,1	P179	17.2	17.0	17.1	1,1
G138	17.9	17.7	17.8	1,1	P178	17.7	17.4 17.3	17.5	2,2,1
G137	17.9	17.9	17.9	0,0	P180	16.6	16.7	16.6	0,1
P222	17.8	17.8	17.8	0,0	P181	17.0	16.9	17.0	0,1

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G95	17.8	17.9	17.8	0,1
G94	16.9	17.0	17.0	1,0
P191	17.7	17.6	17.6	1,0
P182	17.1	17.1	17.1	0,0
P183	16.8	16.6	16.7	1,1
P192	16.5	16.6	16.6	1,0
P197	16.7	16.8	16.8	1,0
P193	17.6	17.6	17.6	0,0
P203a	17.4	17.4	17.4	0,0
P233	16.8	17.0	16.9	1,1
P225f	16.2:	15.9:	16.0:	2,1
G122	16.9	16.8	16.8	1,0
P234	17.3	17.2	17.2	1,0
P219	16.1	15.9 15.7	15.9	2,0,2
P220	17.1	16.9	17.0	1,1
P221	17.0	17.0	17.0	0,0
P249	16.9	16.6	16.8	1,2
P246	two stars? yes!			
G124	17.7	17.8	17.8	1,0
P248	17.6	17.4	17.5	1,1
P218	16.7	16.6	16.6	1,0
P247	~~17.6~~	17.1 17.2	17.2	0,1
P235	17.4	17.4	17.4	0,0
P236	17.2	17.2	17.2	0,0
G125	17.7	17.5	17.6	1,1
G126	18.0	18.0	18.0	0,0
P213	17.8	17.6	17.7	1,1
P214	17.0	17.0	17.0	0,0
P202	16.1	15.9	16.0	1,1
G130	17.4	17.4	17.4	0,0

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G127	17.8	17.8	17.8	0,0
G128	17.9	17.9	17.9	0,0
G129	18.0	18.0	18.0	0,0
P201	15.1 15.0	~~15.5~~	15.0	0,1
P215	16.2	16.4	16.3	±1,1
G123	17.1	17.0	17.0	1,0
P144	16.7	16.5	16.6	1,±1
G101	18.0	17.8	17.9	1,±1
P137	16.2	16.4	16.3	±1,1
P142	16.9	17.2	17.0	±1,2
G159a	16.8	17.0	16.9	±1,1
P136	16.8	17.0 17.2	17.0	±2,0,2
P140	17.8	17.9	17.8	0,1
P135	17.2	17.4	17.3	∓1,1
P173	17.4:	17.4:	17.4:	0,0
G107	17.6	17.8	17.7	±1,1
P126	16.4	16.5	16.4	0,1
P169	16.5	16.6	16.5	0,1
P125	17.1	17.2	17.2	±1,0
P124	17.5	17.5	17.5	0,0
G108	17.5	17.5	17.5	0,0
P127	17.6	17.8	17.7	±1,1
P77	16.4	16.5	16.4	0,1
P130	17.6	17.9	17.8	∓3,1
P79	17.4	17.5	17.4	0,1
G75	two stars ? ✓			
G74	17.0	16.8	16.9	1,±1
P80	16.9	16.7	16.8	1,±1
P73	16.1	15.9	16.0	1,±1

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P81	17.1	17.1	17.1	0,0
G69	17.5	17.6	17.6	1,0
P70b	~~17.1~~	16.3	16.3	0,0
P70a	16.7	16.4	16.5	2,1,1
P74	17.1	17.5	17.3	2,1,2
P76	16.9	17.3	17.1	2,1,2
P71	17.2	17.3	17.2	0,1
P78	16.5	16.7	16.6	1,1
P129	17.6	17.4	17.5	1,1
G77	17.3	17.1	17.2	1,1
G76	16.5:	16.7	16.6:	1,1
P29	15.8	15.7:	15.8:	0,1
P30	16.6	16.6	16.6	0,0
Pc	17.6	17.5	17.6	0,1
P75	~~17.2~~	16.7	16.8	0,1
P39	16.5:	17.0:	16.7	2 0 3
P31	17.3	17.5:	17.4	1,1
P27	14.7:	14.8:	14.8:	1,0
P28	16.0:	16.0	16.0:	0,0
P26	14.5:	14.0:	14.3:	2 0 3
G73	17.7	17.7	~~17.7~~	0,0
P87	16.7	16.9	16.8	1,1
P85	16.9	17.0	17.0	1,0
P86	17.4	17.3	17.4	0,1
P82	17.9	17.9	17.9	0,0
P47	17.5	17.4	17.4	1,0
G103	18,0	17.9	18.0	0,1
G72	17.9	18,0	18.0	1,0
G162	17.7	17.8	17.8	1,0

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G102	17.7	17.7	17.7	0,0
P143	~~16.1~~	15.9 16.1	16.0	1, 1
P146	17.6	17.5	17.6	0, 1
P141	17.3	17.2	17.2	1,0
G104	17.6	17.7	17.6	0,1
P139	16.8	17.0	16.9	1,1
P138	17.4	17.4	17.4	0,0
G105	17.8	17.7	17.8	0, 1
P172	17.2	17.3	17.2	0,1
G151	17.9	17.9	17.9	0,0
G149	17.8	17.8	17.8	0,0
G106	18.0	18.0	18.0	0,0
P171	17.7	17.6	17.6	1,0
P190	17.2	17.4	17.3	1, 1
G150	17.9	17.9	17.9	0,0

P174	15.8	15.8	15.8	0,0
P176	17.7	17.9	17.8	1, 1
P170	17.1	17.2	17.2	1, 0
P165b	17.5	17.6	17.6	1, 0
G152	17.6	17.8	17.7	1, 1
G153	17.3	17.3	17.3	0,0
G154	17.3	17.3	17.3	0,0
P175	17.1	16.9	17.0	1, 1
P168	17.2	17.1	17.2	0, 1
P132	15.4	15.2	15.3	1, 1
G109	17.2	17.4	17.3	1, 1
P166	17.4	17.4	17.4	0,0
P189	13.	?17?		
P206	17.3	17.1	17.2	1, 1
P209b	17.2	17.1	17.2	0, 1

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G147	16.9	16.9	16.9	0, 0
P198	17.1	17.1	17.1	0, 0
P207 b	17.0	16.9	17.0	0, 1
P208 b	16.7	16.7	16.7	0, 0
G148	17.8	17.7	17.8	0, 1
G146	17.7	17.6	17.6	1, 0
P241	17.9	17.8	17.8	1, 0
G145	17.3	17.2	17.2	1, 0
G144	17.5	17.6	17.6	1, 0
P240	16.5	16.7	16.6	1, 1
P243	16.8	17.1:	17.0:	3, 1
P242	~~16.7~~ 15.5	15.4: 15.7:	15.5:	0 1 2
G143	17.2:	17.3:	17.2:	0, 1
P257	16.8:	16.8:	16.8:	0, 0
P253	15.8:	15.5:	15.6:	2, 1

P133	17.0	16.9	17.0	0, 1
P18	16.4	16.7	16.6	3, 1
P42	16.8	16.9	16.8	0, 1
G86	17.6	17.6	17.6	0, 0
G87	17.9	17.8	17.8	1, 0
G163	16.8	17.0	16.9	1 1
G164	18.0	18.0	18.0	0, 0
G165	17.9	17.9	17.9	0, 0
G166	17.4	17.5	17.4	0, 1

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Classifications and Diameter

				Scale	″ of arc.
P 1	a 8:	b 9:	a 8:	4.2	50
2	b 8:	b 9:	b 9:	3.0	36
3	b 9	b 9	b 9	3.2	38
4	c 10	b 10	c 10	3.6	41 43
5	c 10	c 10	c 10	2.9	35
6	a 8:	b 9:	b 8:	3.3	40
7	b 9:	c 9	b 9	3.4	41
~~8~~	a 6	two stars			
9	c 8	c 8	c 8	2.9	35
10	b 7 ,	a 7 ,	a 7	2.8	34
11	a 5	a 4	a 5	3.8	46
12	b 9	c 9	b 9	3.6	43
13	b 8	c 9	c 8	4.0	48
14	a 7	a 8:	a 7	3.4	41
15	b 5	b 5	b 5	4.2	50

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	Classification			Diameter.	
P 16	f 8	a 8	f 8	5.0	60
17	c 9	c 9	c 9	3.0	36
18	f 10	a 10	a 10	2.2	26
20	a 8:	c 8:	f 8:	2.7	32
21	c 10	d 10	c 10	2.7	32
21bis	c 8	c 9	c 8	2.9	35
22	f 4	f 6	f 5	3.6	43 ~~41~~
23	f 6	f 6	f 6	4.6	55
24	c 8	c 7	c 7	4.3	52
25	f 7	a 6	a 6	5.2	62
26	c 5	c 5	c 5	7.5	90
27	c 9:	a 9:	f 9:	3.9	47
28	f 8:	f 8:	f 8:	3.3	40
29	a 9	a 8	a 9	3.6	43
30	a 9	c 7	f 8	3.2	38

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		b	✓		✓	
P 31	a 6	d 7	b 6		4.3	52
32	b ~~8~~	a 9	b 9		1.8	22
33	a 8	b 8	b 8		2.2	26
35	d 2	c 3	d 3		5.7	68
36	c 5	a 6	b 6		3.3	40
37	c 4	c 4	c 4		5.0	60
38	a 10	a 10	a 10		3.4	41
39	b 10	b 10	b 10		5.0:	60:
41	d 6	e 5	e 5		2.2	26
42	b 9	c 9	b 9		3.2	38
43a	a 9	a 8	a 8		2.8	34
43b	b 10	b 10	b 10		2.4	29
44	c 10	c 9	c 9		2.3	28
45	b 9	a 8	a 8		2.2	26
46	c 9:	c 8:	c 9		3.7	44

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			✓			✓
P47	f 9	f 8	f 8		2.7	32
48	f 8	a 8:	f 8		2.8	34
49	a 10	a 10	a 10		1.8	22
50	a 10	a 10	a 10		2.4	29
51	f 8	f 8	f 8		2.3	28
52	a 10	a 10	a 10		2.6	31
53	f 9	f 8	f 9		3.1	37
54	f 5	f 5	f 5		7.6	91
55	a 7	a 7	a 7		2.7	32
56	c 10	c 10	c 10		2.3	28
57	c 3	c 4	c 4		4.3	52
58	d 9	c 9	c 9		3.2	38
60	f 9	f 9	f 9		1.9	23
61	d 7	d 6	d 7		2.5	30
62	f 8	f 9	f 8		2.4	29

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			✓		✓
P 63	c 9	c 8	c 9	2,5	30
64	b 5	b 5	b 5	3,3	40
66	b 10	c 9	b 10	1.8	22
67	c 8	c 8	c 8	2.2	26
68	e 9	e 8	e 9	2.0	24
69	b 10	d 10	c 10	1.3	16
70a	d 10	d 10	d 10	1.9	23
70b	b 8	b 10	b 9	2.1	25
71	a 3	b 4	b 4	3.2	38
73	c 4	c 7/8	c 6	2.6	31
74	a 9	a 9	a 9	2.1	25
75	b 9:	a 9:	b 9:	3.2	38
76	b 9	d 7	c 8	1.8	22
77	c 10	c 10	c 10	2.3	28
78	d 8	d 7	d 7	2.0	24

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				✓		✓	
P	79	a 5	a 3	a 4		2.1	25
	80	d 8	e 8	e 8		2.2	26
	81	b 7	c 6	b 6		1.9	23
	82	a 10	b 10	b 10		2.2	26
	83	b 10	b 10	b 10		2.3	28
	84	c 6	c 7	c 7		2.0	24
	85	a 9	a 9	a 9		1.4	17
	86	b 8	a 7	b 8		1.7	20
	87	c 9	b 9	b 9		1.9	23
	88	d 8	e 6	d 7		1.4	17
	89	a 9	a 8	a 9		1.7	20
	90	e 7	d 8	d 8		1.9	23
	91	c 4	c 5	c 5		2.7	32
	92	b 9	b 8	b 8		2.0	24
	93	f 10	f 9	f 9		6.7	80

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P	94	c 9	c 10	c 10	1.9	23
	95	e 8	e 8	e 8	2.3	28
	96	a 8	a 8	a 8	1.7	20
	97	c 9	f 9	c 9	2.1	25
	98	f 6	f 7	f 7	1.8	22
	99	a 9	f 9	f 9	2.0	24
	100	c 2	c 3	c 2	7.0	84
	101	c 10	f 8	c 9	1.6	19
	103	f 6	c 5	c 5	3.3	40
	104	ic 9	ic 6 7	ic 7 8	3.3	40
	105	ic 4	ic 4	ic 4	4.4	53
	106	c 10	d 9	c 9	2.1	25
	107	f 9	f 10	f 10	1.9	23
	110	f 6	f 7	f 7	2.3	28
	111	a 7	a 7	a 7	2.0	24

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				✓		✓	
P	112	a 10	f 10	b 10		2.2	26
	114	b 10	d 8	c 9		1.7	20
	115	c 8	f 8	c 8		1.8	22
	116	a 7	a 9	a 8		2.5	30
	117	a 10	a 10	a 10		1.3	16
	118	d 10	c 10	c 10		2.0	24
	119	e 6	e 7	e 6		2.2	26
	120	a 4	f 4	a 4		3.1	37
	121	b 10	f 10	b 10		2.1	25
	122	a 9	a 10	a 9		1.6	19
	124	a 9	a 9	a 9		2.2	26
	125	d 10	c 10	c 10		1.8	22
	126	c 8	b 9	c 8		1.9	23
	127	b 10	a 10	a 10		1.5	18
	129	b 8	f 8	b 8		2.2	38

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P	130	a 10	a 9	a 9		1.9	23
	132	d 9	c 8	d 8		2.9	35
	133	i e 4 5	i d 7	i d 5		2.9	35
	135	a 10	b 8	a 9		1.8	22
	136	a 7	a 7	a 7		2.3	28
	137	c 10	b 10	b 10		1.7	20
	138	a 9	a 9	a 9		1.4	17
	139	b 10	b 10	b 10		1.5	18
	140	a 3	a 3	a 3		2.3	28
	141	a 9	b 10	a 10		2.1	25
	142	a 3	c 4	b 3		1.6	19
	143	c 6	d 5	d 6		1.9	23
	144	a 4	a 4	a 4		3.3	40
	146	a ✗	a 6 6	a ✗		1.5	18
	147	c 10	c 8	c 9		1.7	20

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P	148	a 8	b 10	a 9		1.7	20
	149	b 10	c 9	c 10		2.2	26
	150	a 8	a 10	a 9		1.8	22
	151	b 10	c 9	b 9		1.9	23
	154	ie 4	ie 3	ie 4		4.0	48
	155	d 8	b 7	c 7		1.5	18
	156	c 2	c 5 (4)	c 4		3.1	37
	157	d 9	d 10	d 9		2.0	24
	158	b 10	c 8	c 9		1.4	17
	159	d 6	d 6	d 6		2.5	30
	160	b 5	a 5	b 5		2.7	32
	161	b 10	b 10	b 10		2.5	30
	162	b 10	d 10	c 10		1.8	22
	164	b 7	a 7	a 7		1.7	20
	165a	a 8	a 8	a 8		1.4	17

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1927phae.proj.2310A

P	165	b	b 9	b 9	b 9	2.1	25
	166		b 9	a 9	b 9	2.3	28
	168		e 10	d 8	d 9	1.8	22
	169		d 10	c 10	d 10	1.5	18
	170		c d 9	a 9	c 9	2.3	28
	171		d 3	c 5	c 4	1.7	20
	172		c 10	b 8	c 9	2.3	28
	173		a 10	a 10	a 10	3.1	37
	174		b 8	b 9	b 8	2.4	29
	175		b 7	c 7	c 7	2.3	28
	176		a 8	a 8	a 8	2.9	35
	177		c 7	d 5	c 6	2.4	29
	178		d 6	e 7	e 7	2.2	26
	179		c 9	d 10	c 10	1.6	19
	180		b 8	b 9	b 9	1.7	20

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1927phae.proj.2310A

P	181	b 9	b 10	b 10	2.1	25
	182	c 6	c 6	c 6	2.0	24
	183	a 10	a 10	a 10	1.9	23
	184	b 8	b 8	b 8	1.8	22
	187	d 8	d 8	d 8	2.2	26
	188	a 10	a 9	a 9	2.2	26
	189	d 8	e 8	d 8	2.1	25
	190	a 8	a 9	a 8	2.0	24
	191	b 10	a 10	a 10	1.9	23
	192	a 6	b 6	a 6	2.0	24
	193	a 9	a 7	a 8	2.5	30
	194	b 8	c 7	c 7	3.3	40
	195	a 5	a 4	a 4	3.4	41
	197	b 8	a 8	b 8	2.2	26
	198	b 10	b 10	b 10	2.8	34
	200	b 9	a 8	a 9	1.9	23
NGC.	24	c 2	c 2	c 2	27.0	324

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1927phae.proj.2310A

			✓		✓
P. 201	c 9	f 8	c 8	2.4	29
202	f 6	b 6	f 6	2.4	29
203a	a 10	b 9	b 9	2.0	24
203 b	b 10	f 10	f 10	1.8	22 ~~20~~
204a	c 10	c 9	c 10	2.9	35
204b	e 4	c 3	d 3	3.7	44
205a	d 10	d 10	d 10	2.0	24
205b	c 8	a 10	b 9	1.7	20
206	c 8	c 10	c 9	2.7	~~20~~ 32
NGC 7	c 1	b 1	c 1	11.4	137
207a	c 9	c 9	c 9	2.1	25
207b	e 9	f 10	b 10	1.4	17
208a	b 5	f 6	b 5	3.7	44
208b	d 10	d 10	d 10	2.0	24
209a	f 10	a 10	b 10	1.8	22 ~~20~~
209b	a 10	a 10	a 10	2.0	24

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1927phae.proj.2319A

P	210	c 9	b 10	b 10		2.3	28
	211	d 10	c 10	d 10		3.1	37
	212	c 10	a 10	b 10		1.4	17
	213	b 10	a 10	a 10		1.7	20
	214	c 6	b 7	c 7		2.2	26
	215	d 9	d 8	d 8		2.1	25
	218	c 10	c 10	c 10		1.9	23
	219	b 10	b 8	b 9		2.6	31
	220	a 8	a 6	a 7		2.3	28
	221	a 10	b 9	b 9		2.5	30
	222	a 8	a 7	a 8		2.1	25
	223	b 7:	a 8:	b 7:		4.2	50
	224	c 6	c 5	c 6		6.0	72
	225a	a 9:	a 8:	a 9:		2.1	25
	225b	b 10	c 8	c 9		3.6	43

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1927phae.proj..231D

			✓		✓
P 227	f 9	f 9	f 9	2.7	32
228	c 8	f 8	c 8	2.6	31
229	a 9	a 9	a 9	2.9	35
230	d 9/10	c 7	c 9	2.1	25
231	a 9	a 10	a 10	1.6	19
233	f 10	f 10	f 10	1.7	20
234	f 5	f 8: f 7:	f 7:	3.3	40
235	c 5	f 5	c 5	3.3	40
236	a 10	a 9	a 9	2.0	24
237	d 10	d 10	d 10	2.3	28
239	d 9	c 8	c 8	1.9	23
240	a 8:	a 5/5:	a 5	5.1	61
241	f 10	a 10	f 10	2.0	24
242	c 9:	f 7:	f 8:	4.4	53
243	a ~~10~~	f 6:/6:	a 6:	4.7	56

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1927phae.proj.2319A

P 244	b 8	b 8	b 8		3.0	36
245	a 9	a 9	a 9		2.6	31
~~246~~	a 6	~~a 6~~		two stars?	yes ✓	
247	a 10	b 10	b 10		1.9	23
248	b 10	b 10	b 10		2.3	28
249	b 8	b 8	b 8		3.3	40
250	a 9:	b 9:	a 9:		3.8	46
251	c 9:	c 8:	c 9:		3.2	38
252	a 10	b 8:	b 9:		3.0	36
253	b 8:	b 8:	b 8:		7.0:	84:
254	b 9:	c 9:	b 9:		3.2	38
255	a 9:	b 9:	b 9:		2.8	34
256	a 8	a 8	a 8		3.9	47
257	a 9:	a 9:	a 9:		4.2	50
c	a 10	a 10	a 10		1.7	20
d	a 10	a 9	d 9		1.9	23

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1927phae.proj.2315A

		Classification			Diameter 1	✓
G	1	a 7:	a 7:	a 7:	5.2	62
	2	a 9:	a 9:	a 9:	3.3	40
	3	e 7	d 8:	e 8:	2.9	35
	4	f 8	f 8:	f 8:	3.6	43
	5	c 10	f 10	f 10	2.0:	24:
	6	f 8:	c 8:	f 8:	4.3	52
	7	a 9:	a 10	a 9	3.7	44
	8	a 10	a 9	a 10	4.2	50
	9	a 8	a 8	a 8	3.0	36
	10	f 8	a 9:	a 9	4.1	49
	11	c 9	a 9:	f 9	3.0	36
	12	a 9	a 9	a 9	2.2	26
	13	missing				
	14	f 5	f 5	f 5	3.8	46
	15	f 4	f 9	f 8	3.4	41

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1927phae.proj.2319A

				✓		✓
G st att	16	c 10	c 10	c 10	2.0	24
	17	a 10	a 9	a 9	3.2	38
	18	b 9	b 9	b 9	2.4	29
	19	a 7	b 8	a 8	2.5	30
	20	b 9	a 7	a 8	2.1	25
	21	b 7	b 7	b 7	2.2	26
	22	b 8 9	b 6	b 8	2.7	32
	23	a 10	a 10	a 10	2.0	24
	24	c 9	a 8	b 9	1.9	23
	25	a 9	a 9	a 9	1.7	20
	26	a 7	a 8	a 8	2.7	32
	27	a 6	a 6	a 6	3.3	40
	28	b 10	a 9	b 9	2.8	34
	29	c 9	c 9	c 9	2.3	28
	30	— two stars —				

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1927phae.proj.2310A

				✓			✓
G	31	c 8	c 7	c 8		3.3	40
	32	b 8	a 8	a 8		2.8	34
	33	a 7	a 8	a 7		2.7	32
	34	b 9:	a 9:	b 9:		3.5	42
	35	c 10	c 10	c 10		2.1	25
	36	a 7:	a 9	a 8:		2.7	32
	37	b 10	b 10	b 10		1.7	20
	38	c 10	c 8	c 9		2.3	28
	39	a 8	b 8	b 8		1.9	23
	40	a 8	a 10	a 9		1.6	19
	41	a 8	a 8	a 8		3.3	40
	42	b 9	b 9	b 9		1.8	22 ~~20~~
	43	a 10	a 10	a 10		1.7	20 ~~18~~
	44	a 8	a 7	a 8		2.1	25
	45	a 7	a 9	a 8		1.8	22

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1927phae.proj.2319A

				✓		✓
G	46	a3	a3	a 3	2.4	29
	47	b6	b5	b 5	2.9	35
	48	a6	a7	a 6	2.0	24
	49	a9	a9	a 9	2.1	25
	50	a8	a7	a 7	2.3	28
	51	a10	b8	a 9	2.4	29
	52	a7	a9	a 8	2.3	28
	53	a9	a10	a 10	2.3	28
	54	c10	b8	b 9	2.2	26
	55	a10	a9	a 9	1.7	20
	56	b10	b10	b 10	1.3	16
	57	c6	c7	c 6	2.0	24
	~~58~~	d4	two	stars	~~2.3~~	~~28~~
	59	c10	b9	c 9	1.5	18
	60	b9	c7	c 8	1.6	19

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1927phae.proj.2315A

				✓		✓
G	61	b 8	a 9	b 8	3.2	38
	62	b 10	b 9	b 9	1.7	20
	63	d 10	d 10	d 10	2.4	29
	64	i b 7	a 9	i a 8	2.9	35
	65	a 5	c 6	b 6	3.8	46
	66	defect.				defect?
	67	a 4	a 5	a 5	2.5	30
	68	b 10	a 8	b 9	1.4	17
	69	d 8	c 7	c 8	2.6	31
	70	a 9	a 10	a 9	2.0	24
	71	a 10	a 9	a 10	1.9	23
	72	a 10	a 8	a 9	2.0	24
	73	c 10	c 8	c 9	1.9	23
	74	d 9	d 8	d 9	2.4	29
	75		two stars?			

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1927phae.proj.2310A

				✓			✓
G	76	d 9:	d 8	d 8		4.4	53
	77	c 9	c 8	c 9		2.2	26
	78	— defect —					
	79	a 7	a 9	a 8		2.5	30
	80	d 10	d 10	d 10		1.3	16
	81	a 6	b 6	a 6		2.0	24
	82	d 6	d 6	d 6		2.4	29
	83	e 8	~~e~~ 8	e 8		1.9	23
	84	a 9	a 9	a 9		1.8	22
	85	b 5	b 5	b 5		2.1	25
	86	c 10	b 9	c 10		1.7	20
	87	a 4	a 4	a 4		1.5	18
	88	b 6	b 5	b 5		1.9	23
	89	c 7	a 6	b 6		2.0	24
	90	b 10	a 10	a 10		1.2	14

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1927phae.proj..231DA

				✓		✓
G	91	e10	e9	e 9	2.1	25
	92	d10	d 7 8	d 8	1.8	22
	93	b5	a5	b 5	2.3	28
	94	b10	c8	c 9	1.5	18
	95	a4	a4	a 4	2.4	29
	96	a8	a6	a 7	3.2	38
	97	d7	d8	d 8	1.9	23
	98	b10	b 7 8	b 8	1.7	20
	99	b10	b10	b 10	1.6	19
	100	b9	a10	b 9	1.3	16
	101	b10	a8	a 9	1.2	14
	102	a5	a7	a 6	1.4	17
	103	a9	b8	a 8	2.2	26
	104	a10	b9	b 9	1.9	23
	105	b6	a6	b 6	2.6	31

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1927phae.proj.2310A

				✓		✓	
G	106	a 10	a 9	a 10		1.7	20
	107	b 9	a 10	a 9		1.3	16
	108	b 9	b 9	b 9		2.1	25
	109	a 8	b 8	a 8		3.8	46
	110	a 8:	a 9:	a 8:		3.3	40
	111	a 7:	a 10	a 10		2.5	30
	112	b 10	b 8	b 9		2.7	32
	113	b 10	b 8	b 9		2.6	31
	114	c 9:	c 9;	c 9:		2.8	34
	115	c 8	d 10	d 9		2.0	24
	116	d ~~x~~	d 7	d 7		1.8	22
st. att.	117	b 10	b 9	b 9		1.5	18
	118	c 10	b 8	c 9		1.4	17
	119	d 8	e 10	e 9		1.9	23
	120	a 9	a 9	a 9		2.0	24

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1927phae.proj.2310A

				✓			✓
G	121	c 8	c 9	c 8		2.0	24
	122	b 8:	b 7	b 7		2.2	26
	123	a 5	b 6	a 6		2.1	25
	124	b 7	b 9	b 8		2.2	26
	125	a 8	a 10	a 9		2.0	24
	126	a 10 10	a ✗	a 10		1.3	16
	127	b 9	a 10	a 9		1.8	22
	128	b 6	b 8.	b 7		1.9	23
	129	a 10	a 10	a 10		2.2	26
	130	a 5	a 6	a 6		1.6	19
	131	a 10	a 10	a 10		1.2	14
	132	d 8	d 9	d 9		1.8	22
	133	a 4	b 5	a 4		2.7	32
	134	a 10	a 10	a 10		1.4	17
	135	a 7	b 9	a 8		3.0	36

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1927phae.proj.2319A

						✓
G	136	a 9	a 9	a 9	2.1	25
	137	b 9	b 10	b 9	1.6	19
	138	b 9	a 8	a 8	2.7	32
	139	c 10	b 10	c 10	1.9	23
	140	a 6	a 8:	a 7:	3.0	36
	141	b 4	a 4	a 4	4.2	50
st. att,	142	c 6:	c 4:	c 5:	4.6	55
	143	a 8:	a 9:	a 9:	2.6	31
	144	a 7:	a 8	a 8:	2.2	26
	145	b 9:	b 9	b 9:	2.4	29
	146	a 7	a 6:	a 7:	3.4	41
	147	c 9	c 9	c 9	2.2	26
	148	a 8	c 10	b 9	1.5	18
	149	b 8	b 10	b 9	1.6	19
	150	c 6	c 5	c 6	2.3	28

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1927phae.proj.2319A

							✓
G	151	b9	a7	b 8		2.0	24
	152	a10	b9	b 9		2.6	31
	153	a9:	b8:	a 8		1.8	22
	154	b5	c5	c 5		2.1	25
	155	b10	c10	b 10		2.2	26
	156	a8	a8	a 8		1.8	22
	157	c~~10~~	c7	c 7		1.3	16
	158	b9	b9	b 9		1.7	20
	159a	d6	d7	d 7		1.6	19
	159b	b8:	b7	b 8		2.4	29
	160	b5	b6	b 5		2.1	25
	161	a9	a9	a 9		2.0	24
	162	a10	a8	a 9		2.3	28
	163	a6	a6	a 6		1.3	16
	164	a9	a10	a 10		1.9	23

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1927phae.proj.2319A

			✓			✓
165	a 10	a 8	a 9		2.1	25
166	a 8	b 7	b 7		2.2	26

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Position Angle. A 12546

P 11	P 133
15	140
22	142
26	144
35	154
37	156
54	160
57	171
64	195
71	204 b
79	208 a
91	235
100	240
103	N 7
120	N 24

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1927phae.proj.2310A

Cy 14

46

47

67

85

87

88

93

95

133

141

142

154

160

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1927phae.proj.2319A

N.G.C. and I.C. Objects on A 2546.

N.G.C. 7 ✓
24 ✓

I.C. I none

I.C. II 5362 ✓ P13,
5363 not found
5364 ✓ double P43a and P43b

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A 3386.

Positions in Russell's Book 6.

Sequences.

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A 3386.

111	16.7
74	16.2
N 142	15.3::
N 143	15.9::
N 144	14.7::
86	16.6
I 1553	14.6::
2	17.5 star —
3	17.4
88	17.1
87	17.0::
89	17.6
4	16.4
N167	14.8:
12	16.3

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~~X~~	
9	17.3
11	17.6
I 1558	16.7
10	17.6
N168	14.9:
25	17.3
N172	15.2
38	17.4
112	16.8
113	— star —
N177	15.3
I 1561	15.6
I 1562	14.4
41	17.5 star

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1927phae.proj.2319A

90	star
19	17.4
22	17.5
24	17.5
17	17.1
91	17.7
93	16.9
18	16.7
94	17.5
39	17.4
36	17.6
185	17.2
27	17.1
29	16.3
37	Star

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1927phae.proj.2319A

33	17.4
47	17.1
31	defect a star
34	17.7
67	16.8
28	17.5
N 230	16.3
95	16.9
32	17.0
N 232	15.0
36	17.6
N 235	14.6
I 1574	16.3::
45	17.0
96	17.4

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1927phae.proj.2319A

64	16.7
97	16.6
98	17.4
46	17.7
I1576	15.9
83	16.3
I1578	15.5
I1579	15.2
54	17.2
I1582	16.5
114	14.9
N253	very bright -7^m ??
63	17.6
82	17.2
84	17.5

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1927phae.proj.2319A

99	16.8
I 1587	16.6
116	17.4
58	17.1
59	17.3
I 1588	17.3
73	17.2
N 276	16.7:
104	16.9:
103	14.8:
72	star
71	16.8
70	star
105	15.0
107	17.3

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1927phae.proj.2319A

108	16.6
78	16.9
I 1599	16.3
109	17.4
I 1600	16.1
106	16.8
77	17.2
I 1601	14.8
110	16.8
115	15.8:
62	17.5
65	17.6
57	15.3
101	17.4
102	17.8

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1927phae.proj.2319A

100	17.4
I 1573	17.3
I 1581	17.1
120	16.4:
121	16.9:
122	16.9:
123	16.5:
124	16.2:
125	17.2
126	17.6
127	17.8
128	17.6
129	17.2
130	17.3
131	17.5

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132	16.2
133	17.2
~~134~~	missing? ✓
135	17.5
136	16.3
137	17.9
138	18.0:
139	17.8
140	17.6
141	17.7
142	17.4
143	17.3
144	17.8
145	17.3
146	17.2

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147	16.5
148	17.1
51	17.3
53	16.6
13	16.8
149	17.4
150	16.7:
151	17.2
152	16.0:
153	16.2
154	16.9:
155	17.4
156	17.6
157	17.5
158	17.7

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159	17.8
160	17.5

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5493

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1927phae.proj.2319A

14h

0° to -30° Declination.

5493 A7724 Already done in previous survey.
5476– A6448 Already done in previous survey.
5478 A6448 " " " " "
X 5494 A9361, AX 1600 12.5, AX 1047 12.4, RB 323 12.6 — 12.5 ✓
5495 A10056 AX 1600 [13.3
5496 A6448 Already done in previous survey.
5506 A6448 AX 2296 13.3
5507 A6448 AX 2296 13.5
5510 A8286, AX 2220 13.5
X5534 A7724 AX 2269 13.0, AX 1193 13.0, AX 1605 12.9 — 13.0 ✓
5555 A8286 AX 2220 13.5
5556X A13637, AX 1600 12.4:, AX 2263 12.3:, AX 1047 12.5 — 12.4: ✓ A14797 sag 2.5X2.2 very large with low surface brightness similar fainter nebs spp ca. 20m.
5592 A13037, AX 1600 12.8, AX 2263 13.1, AX 1047 13.3 — 13.1 ✓
5595X A8286 AX 2220 12.1, AX 1091 12.5, AX 1803 12.6 — 12.4 ✓
3597X A8286 AX 2220 12.4, AX 1091 12.6, AX 1803 12.8 — 12.6 ✓
5604 A6448 AX 2269 13.5
5605 A3709 AX 2220 13.1, AX 1091 12.9, AX 1803 13.2 — 13.1 ✓
5618 A6448 AX 2269 [13.5
5626 A13037 AX 1600 [13.3
5634 A10390 ~~AX 2269 10.9~~ AX 1605 11.0, AX 1193 11.1 — 11.0 globular cluster.
5663 A3468 AX 2220 [13.5
3664 A7354 not found.
5694 A5391 globular cluster
5705 A3797 AX 1605 [13.3
5716 A3468 AX 2220 13.3
5726 Forev A3468 AX 2220 [13.5
5734 A13036 AX 2220 [13.3
5741 A7355 AX 2220 [13.5
5742 A7355 AX 2220 [13.5
5743 A13036 AX 2220 [13.3
5744 A3468 very doubtful; too faint.

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1927phae.proj.2319A

14h (cont)

5745		A7355 AX 2220 [13.5			
5756		A7355 AX 2220 13.1, AX 1091 13.2 AX 1803 13.0	13.1 ✓		
5757	X	A3468 AX 2220 12.4, AX 1091 12.5, AX 1803 12.9	12.6 ✓		no good plate for description
5761		A3468 AX 2220 13.5			
5766		A3671 AX 2220 13.5			
5768	X	A5993 AX 1605 12.9, AX 1737 12.8, A 2269 13:1	12.9 ✓	MC 16767	S:C 8 1.0
5781		A5916 AX 2220 13.1, AX 1091 13.3			
5791		A3817 AX 2220 12.6, AX 1091 13.1 AX 1803 13.3	13.0 ✓		
5792	X	A5993 AX 1737 12.6: AX 1605 12.9:, AX 2269 13.2	12.9:		
5793		A5916 AX 2220 [13.5			
5796	X	A5916 AX 2220 12.7, AX 1091 12.7 AX 1803 12.9	12.8 ✓		
5801		Overlaps on A5916			
5802					
5803					
5809		A5916 AX 2220 [13.5			
5810		A5916 AX 2220 [13.5			
5812*	X	A3777 AX 2220 12.3, AX 1091 12.4, AX 1803 12.7	12.5 ✓		
5816		A5916 not found.			
5817		A5916 AX 2220 [13.5			
5849		A5916 Not found.			
5815*		A5916 AX 2220 [13.5			
I 998		A6448 AX 2269			
I H401		A6448 AX 2269			
5728±	X	A3468 AX 2220 12.1, AX 1091 12.5, AX 1803 12.5	12.4 ✓		
5729		A3777 AX 2220 13.2			
I 1080		A3777 AX 2220 [13.5			
I 991		A3709 AX 2220 [13.3			
I 4392		A3709 AX 2220 [13.3			
I 1081		A3617 AX 2220 [13.3			
I 4513		A3671 AX 2220 [13.3			
I 4510		A3671 AX 2220 [13.3			

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0° to −30°

15h

5858 A6716 AX 1091 13.3

X5861 A6716 AX 1091 12.4, AX 2220 12.4, AX 1803 12.4 — 12.4 ✓

5863 A7341 AX 1091 [13.3

5872 A6716 AX 1091 13.3

5877 A5440 triple star.

X5878 A5916 AX 2220 13.1, AX 1091 12.6, AX 1803 13.0 — 12.9 ✓ — A7884 Sie 4 2.6

5880 A5916 Not found.

5883 A5916 AX 2220 [13.5

X5885 A6716 AX 1091 12.5, AX 2220 12.2, AX 1803 12.4 — 12.4 ✓

5890 A7341 AX 1091 [13.3

5891 A6716 AX 1091 [13.3

5892 A5916 Very doubtful; too faint.

5897 A 13017 globular cluster

5898X A13017 AX 2220 12.5, AX 1803 12.7, AX 1091 12.6 — 12.6 ✓ — f10 0.5' spheroid

X5903 A 13017 AX 2220 12.5, AX 1803 13.0, AX 1091 13.1 — 12.9 ✓ — f10 0.7 spheroid

5913 A5440 AX 2226 [13.7

X5915 A4416 AX 1091 12.6, AX 2220 12.2, AX 1803 12.6 — 12.5 ✓

5916 A4416 AX 1091 [13.3

5917 A8775 AX 1091 [13.3

5937 A3798 AX 2226 [13.3

5959 A2650 AX 1091 [13.3

5973 A3783 AX 1091 [13.3

5978 Not vis. on A371D. v M.

5995 " " " " v M.

5998 Cluster A 10042

6000 A 10042, AX 1683, not resolved from star; central mag 12.8; neb mag [13.0.

6033 MC 16674 not found.

6059 A10131 not found.

I 1125 A3798, AX 2226 [13.7

X New. A7341 AX 1091 12.6:, AX 2220 13.1, AX 1803 12.8 — 12.8 ✓ — S: f10 2:0

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1927phae.proj.2319A

128

16h

6093 Cluster A12043 ✓

6118 X MC 16674, AX 12,4 2226, AX 12,3 2359 AX 12,1 1104 ✓ 12.3. Faint surface bright.

6121 Cluster A12043 ✓

6171 A4404 Cluster, (Reinmuth)

6172 A7891 AX 2226 [13.3

6218 A7891 Cluster

6220 A7891 not found. M.

6144 Cluster A12043 ✓

I 4606 A12043 Diffuse

I 4605 A12043 Diffuse

I 4604 A12043 Diffuse

I 4603 A12043 Diffuse

I 4600 A12043 not found

I 4596 A12043 spgal. neb. [13.5.

I 1203 A12043 Diffuse

~~6254~~ ⊕ ✓ Rein. H.S.

~~6266~~ ⊕ ✓ H.S.

~~6273~~ ⊕ ✓ H.S.

~~6284~~ ⊕ ✓ H.S.

~~6287~~ ⊕ ✓ H.S.

17h ~~6293~~ ⊕ ✓ H.S.

~~6294~~ double star.

~~6304~~ ⊕ ✓ H.S.

6309 A14215 not found - poor cluster?

~~6325~~ ⊕ H.S.

~~6333~~ ⊕ ✓ Rein.

~~6342~~ ⊕ H.S.

~~6355~~ Cluster H.S.

6356 ⊕ Rein. H.S.

6360 Neb patches in Milky Way.

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1927phae.proj.2319A

17h cont.

6369 ⊙ A12090 not ex galactic
6401 Probably diffuse nebula. H.S.
~~6402~~ ⊕ v Rein. H.S.
~~6432~~ Cluster not found.
6439 O v Gal center H.S.
~~6440~~ ⊕ H.S.
6445 Planetary Gal center H.S.
~~6469~~ Cluster v H.S.
~~6476~~ Not. part of the M.W.
~~6494~~ Cluster v Rein.
6506 Cluster
~~6507~~ Cluster v Rein.
6514 Diffuse - Trifid nebula.
6519 Poor cluster A12087
~~6520~~ Cluster v H.S.
6523 Diffuse nebula Me.
~~6530~~ Cluster v H.S.
~~6531~~ Cluster v H.S.
6533 not found - Gal. center. H.S.
~~6535~~ Cluster v Rein. H.S.
6537 O v Gal center H.S.
~~6539~~ ⊕ H.S.
~~6540~~ Cluster H.S.
~~6544~~ Cluster H.S.
6546 Cluster v Gal center. H.S.

"Gal center" refers to card catalogue made by D.M. Wills for work on the galactic center, with classifications of objects by H.S.

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1927phae.proj.2319A

18h

~~6551~~ very poor cluster A 12087.
~~6553~~ ⊕ v H.S.
~~6554~~ Cluster. not ex-gal. Rein.
~~6559~~ Diffuse Gal-center H.S.
~~6561~~ Cluster. not ex-gal. Rein.
~~6565~~ ⊙ v
~~6569~~ ○ v
~~6568~~ Cluster loose cluster Gal. center H.S.
~~6573~~ Cluster " " " " "
~~6578~~ ⊙ v
~~6583~~ Cluster v H.S.
~~6584~~ Diffuse v Gal center. H.S.
~~6590~~ Same as 6595.
~~6595~~ Diffuse v Rein.
~~6596~~ Cluster v Rein.
~~6603~~ Cluster v Rein.
~~6604~~ Cluster v Rein.
~~6605~~ Cluster not ex-gal. neb Rein.
~~6611~~ Cluster v Rein.
~~6613~~ Cluster v Rein.
~~6618~~ diffuse nebula, Rein.
~~6620~~ ○ v
~~6625~~ Cluster not ex-gal nebula. Rein.
~~6626~~ Cluster ⊕ v H.S.
6629 ○ or ⊕, Planetary Gal. Cen. H.S.
~~6631~~ Cl v Rein
~~6638~~ ⊕ v H.S.
~~6639~~ Cluster v Rein
~~6642~~ ⊕, Open Cluster H.S.
6644 ○ v

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1927phae.proj.2310A

6645 Cluster v Rein. H.S.
6647 Cluster not ex gal neb. Rein.
6649 Cluster v Rein. H.S.
6656 ⊕ v H.S.
6664 Cluster v Rein. H.S.
6682 Cluster not ex gal neb. Rein.
6683 Cluster v Rein.
6694 Cluster v Rein. H.S.
6698 Suspected Cluster. not ex gal.
6704 Cluster v Rein.
6705 Cluster v Rein. H.S.
6712 ⊕ v Rein. H.S.
6716 Cluster
6717 Cluster and nebula.
6728 Cluster not ex gal neb. Rein.
6735 Cluster v Rein.
6737 Cluster, not ex gal. neb. Rein.
6741 O v
6751 Planetary. Lick XIII

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1927phae.proj.2310A

132

±0° to -30°

19h

6772 Planetary Lick XIII.
6774 Cluster + Nebs.
6775 Cluster + Nebs.
6778 Planetary Lick XIII
6785 not found MF 8837
6797 n not found by Ho.
X 6814 pF A3712. AX 2540 12.0, AX 1968 12.3, AX 1678 12.3 — 12.2 ✓ — Lick XIII: "spiral" a 10, c S.
6816 A 14737 AX 1793 C 13.2
6818
6821 Planetary FA3720 AX 774 C 13.2
X 6822 n A3717 AX 2540 10.6:, AX 1968 11.5:, AX 1678 11.0: — 11.0:: ✓ — Mag. Cl. Type. Very large + ff. irreg.
X 6835 n A 3717 AX 2540 12.8, AX 1968 13.0, AX 1678 13.2 — 13.0 — c 3, small
6836 n A 3717 AX 2540 C 13.2
6863 Stars, Neb.
6864 ⊕ Cluster
6865 F A 10109 not found.

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1927phae.proj.2310A

20h

6897 vF
6898 cF A10155 AX1205 C13.2
6900 F A10209 AX774 C13.2
6903 cF A2766 AX1793 C13.2
X 6907 A8911 AX1793 12.2, AX1285 12.1, AX1247 12.1
6908 A8911 not seen
6912 n A2766 AX1793 C13.2
6915 A10209 AX774 C13.3
6922 FA8962 AX774 C13.3
6924 n A10167 not seen
6926 cF A8962 AX774 C13.2
6929 cF A8962 AX774 C13.2
6931 n A3713 AX1205 C13.2
6936 n A10167 not seen.
6941 vF
6945 pF A7894 not seen
6959 n A8962 AX774 C13.2
6961 vF
6962 pF A8962 AX774 C13.2
6964 pF A8962 AX774 C13.2
6965 ? not found, Rein. A8962
6966 n A8962 AX774 C13.2
6967 pF A8962 AX774 C13.2
6968 n A10240 AX1205 C13.2
6973 n A10240 not seen
6975 same as 6976
6976 vF
6977 cF A10240 AX1205 C13.2
6978 pF A10240 AX1205 C13.2
6980 n A10240 AX1205 C13.2
6981 ⊕ Cluster, Rein.

h. st. att. may compared on A plate 12.1 v
C7, C4
also A13125 SC9 2X2

see page 185 for 20h cont.

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For beginning of 21h see page 185!!

21h

7065 A10197 not seen
7069 pFA9862 AX 791 C13.2
7073 cFA 9028 AX 1205 C13.2
7088n A9862 not found
7089 ⊕ Cluster
7099 ⊕ Cluster
7103n A12652 AX 2071 C13.2
7104n A12652 AX 2071 C13.2
7105n not found by Howe.
7108 vF
7111 cF A10210 not seen
7115n A12652 AX 2071 C13.2
7120 FA10210 not seen
7121 pF RB421 not found.
7122 star, Kein.
7131 cF A7417 AX 1205 C13.2
7136n A7417 not seen
7152 A5724 not seen
7153 A5724 not seen
7158n A7417 not seen
7165 vF
7167 A5724 not seen
7170n RB421 not seen.
X 7171 cF A7417 AX 1205 (12.6), AX 646 (13.0), AX 1169 (12.9) — 12.8 ✓ cS, s: e.8
7180 A6511 AX 1954 C13.2
7181 vF
7182 vF
7183 vF
X 7184 A6511 AX 1954 (12.1), AX 2071 (12.0), AX 1819 (12.0) — 12.0 ✓ 6'X1.5 f3, spiral?
7185 A6511 AX 1954 C13.2
7188n A6511 AX 1954 C13.2
7189 cF RB421 not seen

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1927phae.proj.2319A

0° to -30°

7198	eF				
7211	eF				
	✓				
22h					
7208		A3947, AX 2071 [13.2			
7214		Cluster-Drayer. A 14204 prob. not ⊕ AX 2071 [13.2			
7215	vF				
X 7218	pB	A8963 AX 1849 12.6, AX 2029 12.7, AX 1871 12.7	12.7 ✓	2' x 1.5 spiral, , C 8	
7220		A14947 AX 2071 [13.2			
7225		A14947 AX 2071 13.3			
7230	pF	A8963 AX 1849 13.2			
7239	vF				
7246	cF	A8963 AX 1849 [13.2			
7247		A14947 AX 2071 [13.2			
7251	pF	A8963 AX 1849 [13.2			
7252		A3947 AX 2071 13.0, AX 1811 13.1, AX 1954 12.8	13.0 ✓		stellar
7254		A14809 AX 2071 [13.2			
7255		A8963 not seen.			
7256		Same as #7254			
7257	cF	A10196, AX 791 [13.3			
7258		A3947 not seen.			

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1927phae.proj.2310A

22 cont.

7259		A3947	AX 2071 C13.2		
7260	F	A10196	AX 791 C13.2		
7266	pF	A10196	AX 791 C13.2		
7269		A9029	AX 1849 C13.2		
7284		A14809	AX 2071 C13.2		
7285		A14809	AX 2071 C13.2		
7287		A14809	stars only found.		
7288	pF	A10196	AX 791 C13.2		
7293		A14809	Planetary neb.		
7294		A2852	not found		
7298	vF				
7300	cF	A9029	AX 1849 13.0, AX 2029 13.2, AX 1871 13.3	13.2 v	f 4, small
7301		A10211	AX 1849 C13.2		
7302	pB	A9029	AX 1849 13.1, AX 2029 13.1, AX 1871 13.1	13.1 v	stellar.
7306		A2852	AX 2071 C13.3		
7308		A9029	AX 1849 C13.2		
7309	cF	A9029	AX 1849 13.0, AX 2029 13.2, AX 1871 13.1	13.1 v	f 9, small.
7310		A14809	AX 2071 C13.2		
7313		A2852	not found		
X 7314		A2852	AX 2071 12.0, AX 1819 11.9, AX 1954 11.7	11.9 v	3'X1.5 e5, S: close arms.
7341		A14809	AX 2071 C13.2		also A14907 sa 4 3'X1.3
7344	cF	A14196	AX 791 C13.2		
7349		A14809	not found.		
7351		A14196	AX 791 C13.2		
7359		A14809	AX 2071 C13.2		
7364	pF	A14196	AX 2071 C13.2		
7365		A14809	AX 1849 C13.2		
X 7371	pF	A8977	AX 1849 12.9, AX 2029 12.9, AX 1871 13.0	12.9 v	c10, x small
X 7377		A14809	AX 2071 12.9, AX 2029 12.6, AX 1849 12.6	12.7 v	d 9, 1.2
7378		A8977	AX 1849 C13.2		also A 14248 spheroidal

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1927phae.proj.2318A

22h cont.

7381		A14809 not seen.	
7391	cB	A14196 AX 749 C13.2	A14980 sd8
X 7392		A4000 AX 2029 12.6, AX 1849 12.5, AX 1871 12.8	12.6 1.5 X 1.0
7393	pF	A7005 AX 1849 13.2	
7399		A7005 not seen.	
7406	pB	A7005, AX 1849 C13.2	
7416	cF	A7005, AX 1849 C13.2	
7425		A8977 AX 1849 C13.2	
7428	pF	B27906	
7434	eF	———	
7441		A7005 not seen.	
7443	pB	A8977 AX 1849 C13.2	
7444	pB	A8977 AX 1849 C13.2	
7450	pF	A8977 AX 1849 C13.2	
7453		A7005 not found	
7471		A4000, not found.	
7481		A400 AX 1871 C13.2	

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23h

7491		A8124	AX 1849 C13.2		
7492	vF	~~~~			
7494		A4008	not found.		
7498		A4008	AX 1287 C13.2		
7502		A4008	not found.		
7506	pF	A7400	AX 1928 C13.2		A 14806 C10
X 7507		A2856	AX 11.9 1287, AX 12.2 1931, AX 12.0 2097	12.0 ✓	1.0 spheroid
7513		A2856	AX 1287 13.3		
7517	F	A7400	AX 1928 C13.2		
7520		A4008	not found		
7521	cF	A7400	AX 1928 C13.2		
7522		A4008	not found		
7524	vF				
7526	Not a Neb. 3F Stars - Rein.				
7530	vF	~~~~			
7532	pF	A7400	AX 1928 C13.2		
7533	vF	~~~~			
7534	F	A7400	AX 1928 C13.2		
7544	vF				
7546	eF				
7554	eF				
7556	pF	A7400	AX 1928 C13.2		
7565	Not a Neb *15 in Dreyer's place - Rein.				
7566	cF	A7400	AX 1928 C13.2		
7573		A4008	not found.		
7576	pB	A8124	AX 1928 C13.2		C7 0.'8
X 7585	cB	A8124	AX 12.7 1928, AX 12.9 776, AX 12.8 2095	12.8 ✓	stellar
7589	vF	~~~~			
7592	pF	A7400	AX 1928 C13.2		
7596		A8124	not seen.		

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1927phae.proj..2319A

23h cont.

7600	pB	A7754	AX 1849 12.9, AX 2029 13.1, AX 1871 13.2	13.1 ✓	d5, small	
7603	pB	A7400	AX 1928 13.3			
X 7606	pF	A7754	AX 1849 11.9, AX 2029 12.0, AX 1871 11.9	11.9 ✓	e7 3.0 x 2.0	
7613	vF	Neb? 14.7 mg. – Rein.				
7614		Not found – Rein.				
7646		A8993 not seen.				
7656		A8124 not seen.				
7663		Neb? * 15.0 – Rein.				
7665	pF	A9044	AX 1849 < 13.2			
7666		Neb? n * 15.0 – Rein.				
7667	eeF	———				
7668.70		Neb? or * 16.0 – Rein.				
7684	pF	A9864	AX 1928 < 13.2			
7692	pF	A9044	AX 1928 < 13.2			
7693		Neb? or neb star 14 mag. – Dreyer				
7694	pF	A9864	AX 1928 < 13.2			
7695	F	A9864	AX 1928 < 13.2			
7699	F	A9864	AX 1928 < 13.2			
7700	eF	A9864	AX 1928 < 13.2			
7701	pB	A9864	AX 1928 < 13.2			
7709		B28519	AX 1849 < 13.2			
7710	pF	A9864	AX 1928 < 13.2			
7716	pB	A9864	AX 1849 13.0, AX 776 13.0, AX 2095 13.1	13.0 ✓	c10, v. small.	
7717	pF	B28519	AX 1849 < 13.2			
7719		A5729 not seen.				
X 7721	pF	A9044	AX 1928 12.4, AX 776 12.4, AX 2095 12.3	12.4 ✓	d5, 3' x 1.5	
X 7723	pB	A8993	AX 1849 12.2, AX 2029 12.0, AX 1871 12.2	12.1 ✓	f7, somewhat large	
7724	cF	A8993	AX 1849 < 13.2			
7725	pB	A9044	AX 1928 < 13.2			
X 7727	B	A8993	AX 1849 12.1, AX 2029 11.9, AX 1871 12.0	12.0 ✓	d10, stellar.	

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1927phae.proj.2310A

23h cont.

7730		A5729 not found.
7736		A5729 not found.
7738	cF	A8905 not found.
7739		Not found by Reiz.
7746		A8905 AX 1928 [13.2
7754		A9055 AX 1849 [13.2
7758		A1491H not found
7759		A9055 AX 1849 [13.2
7761		A9020 not seen
7763		A9055 not seen
7776		A9020 AX 1849 [13.2
7783	cF	A8905 AX 1928 [13.2
7787	F	A8905 not found.
7807		A9055, not seen.
7808		A9020 AX 1849 [13.3
7813		A9020 AX 1849 [13.3
7821		A9055 AX 1849 [13.2
7826		Baxter - Dreyer
7828		A9020 AX 1849 [13.2
7832	pB	A8373 AX 1928 13.2

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1927phae.proj.2319A

0h

	17		A9033 not found, same as N34?
X	24		A14330 AX 1287 12.1, AX 1931 12.4, AX 2097 12.2 — 12.2 ✓ 4'×0.8 d 2 spiral
	34		A9033 AX1909 [13.2 — also A 12456 3h
	35		A9033, AX 1909 [13.2
	38		A7106 AX1928 [13.2
X	45		A4001 AX 1287 12.2:, AX 1931 11.8:, AX 2097 12.3: — 12.1: v 7'×6', at att. large - low s.b.
	47		A7106 AX1928 [13.2 — also A 14866 7'×6' s 69
	50	cB	A7106 AX1928 13.2
	54		A7106 AX1928 [13.2
	58		Not found by Ho.
	59		A4001 AX1287 13.2
	60		A8119 not found
	61	F	A7106 AX1928 13.2
	62		A9033 AX 1909 [13.2
	64		Acc. to Dreyer- eeF, vS, R, v diffic. (Not on A 7106)
	65		A4001 not found
	66		A4001 not found
	73		A4752 not found.
	77		A4001 not found.
	102		A9033 not seen.
	106		A7106 not found.
	107	F	A7106 AX 1928 [13.2
	111		A8119 same as NGC 113.
	113	pBpF	A8119 AX 1928 [13.2
	114		A8119, A8130 [13.2
	116	cFpF	A7106 A 1928 [13.2
	118		A8119 A8130 [13.2
	120		A8119 A8130 [13.2
	122		A8119 A8130 [13.2
	123		A8119 A8130 [13.2

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1927phae.proj.2319A

0h cont.

	124		A8119	A8130 C13.2		
	135		A8179	AX 1909 C13.2		
	142		A3386	AX 1287 C13.3		
	143		A3386	AX 1287 C13.3		
	144		A3386	AX 1287 C13.3		
	145	pF	A14287	AX 1928 C13.2		
X	150	pB	A4094	AX 12.2 1287, AX 12.3 2097, AX 12.1 1931	12.2 ✓	29. spiral, spirals
X	151	pB	A8179	AX 12.5 1909, AX 12.5 2080, AX 12.6 1228	12.5	27, small
	153		A8179	same as N151.		
	154	F	A8179	AX 1909 C13.5		
	155		A8179	AX 1909 C13.3		
	156		A14287	not found		
X	157	pB	A14287	AX 11.2 1928, AX 11.0 776, AX 11.0 2095	✓ 11.1	3'X2.5 sarm e8, spiral
	158		A14287	not found		
	161		A8103	AX 1928 C13.2		
	163	cF	A8179	AX 1909 C13.3		
	165		A8179	AX 1909 C13.3		
	166		A8179	AX 1909 C13.3		
	167		A3386	AX 1287 C13.3		
	168		A3386	AX 1287 C13.3		
	172		A3386	AX 1287 C13.3		A14358 ϕ spiral
X	175		A4009	AX 13.0 1909, AX 12.8 2080, AX 12.7 1228	✓ 12.8	S e 8 1.8X1.3
	177		A3386	AX 1287 C13.3		
X	178		A8179	AX 12.8 1909, AX 13.0 2080, AX 12.8 1228	✓ 12.9	as, small
	179		A9886	AX 1909 C13.3		
	187		A14286	AX 1909 C13.3		
	191	pF	A14287	AX 1909 C13.2		
	195	cF	A14287	AX 1909 C13.2		
	207	cF	A8179	AX 1909 C13.2		
	209		A9886	not found		

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X 210	cB	A8179	AX 1909 12.5, AX 2080 12.5, AX 1228 12.6	12.5 ✓	10'×5' 6:, extremely ft. outside	
216		A4009	AX 1909 [13.2			
217	pB	A8179	AX 1909 13.3			
227	cB	A8103	AX 1928 13.1, AX 776 13.1, AX 2095 13.0	13.1 ✓	stellar	
230		A3386	AX 1928 [13.2			
232		A3386	AX 1928 [13.2			
235		A3386	AX 1928 [13.2			
237		A8103	AX 1928 13.1, AX 776 13.2, AX 2095 13.3	13.2 ✓	stellar	
239		A8103	AX 1928 [13.2			
244	cF	A14286	AX 1909 [13.3			
X 245	pB	A8103	AX 1928 12.9, AX 776 13.0, AX 2095 12.9	12.9 ✓	stellar	
246	!!LR	A10255	Planetary nebula.			
X 247		A4679	AX 1909 10.5, AX 2080 10.7, AX 1228 10.9	10.7 ✓	18.0 × 7.0 low, s. b. spiral, ft. nucleus.	
X 253	!! vvB vvL	A4094	AX 1909 7.0:, AX 1287 7D:, AX 2097 7.0	7.0:	spiral, much structure 27'×5' no Br. nucleus	
X 255	pF	A10255	AX 1909 12.9, AX 2080 13.0, AX 1228 12.6	12.8 ✓	c10, small.	
259	pB	A8197	AX 1928 [13.2			
263		A10255	AX 1909 [13.2			
268	pF	A8183	AX 1928 13.0, AX 2095 13.2, AX 776 13.3	13.2 ✓	c8, small	
270	pF pB	A8183	AX 1909 13.2			
271	pB	A8197	AX 1928 [13.2			
273	pF	A8183	AX 1909 [13.2			
274	pB	A8183	AX 1909 12.8, AX 2080 13.0, AX 1228 13.1	13.0 ✓	stellar	
275	pB	A8183	AX 1909 12.9, AX 2080 13.1, AX 1228 13.1	13.0 ✓	small, irregular	
276		A4679	not found.			
277	pF	A8183	AX 1909 [13.2			
279	pB	A8197	AX 1928 [13.2			
283		A10255	not found			
284		A10255	not found			
285		A10255	not found			
286		A10255	not found			

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1927phae.proj.2319A

0h cont.

	288	Cluster	
	291	cF	A 8183 AX 1909 C 13.2
	293	F	A 8183 AX 1909 C 13.2
	297	eeF	———
	298	pF	A 8183 AX 1909 C 13.2
	301		A 10255 AX 1909 C 13.2
	302		A 10255 AX 1909 C 13.2
	303		A 4737 not found
	307	pB	A 8197 AX 1928 C 13.2
	308	vF	eeS ———
X	309	pF cF	A 10255 AX 12.7 1909, AX 12.6 2080, AX 12.3 1228 — 12.5 ✓ bg, small
	310		neb star – Rim.
	320		A 4679 not found
	321	vF	———
	325	eeF	———
	327	eF	A 8183 AX 1928 C 13.2
	329	cF-F	A 8183 AX 1928 C 13.2
	331		A 8197 not found.
	333		A 4737 not found.
	335		A 4737 not found
	336		A 4737 not found
X	337	pB	A 8183 AX 12.3 1909, AX 12.2 2080, AX 12.0 1228 — 12.2 ✓ 2 nuclei irregular small
	340	pF	A 8183 AX 1909 C 13.2
	341		A 8183 AX 1909 C 13.2
	342	cF	A 8183 AX 1909 C 13.2
	343		A 4679 not found
	344		A 4679 not found
	345	cF	A 8183 AX 1909 C 13.2
	347	F	A 8183 AX 1909 C 13.2
	349	pBpF	A 8183 AX 1909 C 13.2

X

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350	cF	A8183 AX1909 ⊏13.2
351		A8197 AX 1928 ⊏13.2
352	pF	A8183 AX 1928 ⊏13.2
353		A8197 AX 1928 ⊏13.2
355	eeFvS	~~~~
356	pF	A8183 AX1909 ⊏13.2
357	pB	A8183 AX 1909 (13.1), AX 2050 (13.2), AX 1228 (12.7) 13.0 ✓ small.
359	cF	A8120 AX1928 ⊏13.2
363		A5757 not found
364	vSeeF	~~~~
367		A10255 AX1909 ⊏13.2
369		A5757 AX1909 ⊏13.2
377	n	not seen on AX plate, no A to cover.
XNew neb ✓		A8183, AX 1909 (13.0), AX 2080 (12.8), AX 1228 (12.5) 12.8. ✓ low surface br. ≥ 10, 3.5

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1927phae.proj.2319A

1 h

412 no A plate to cover, not seen on AX plate.
413 A 8120 not seen
417 A 5757 not found
423 AX 2044 not seen
426 cF A 8120 AX 2066 C 13.2
429 cF A 8120 AX 2066 C 13.2
430 pF-pB A 8120 AX 2066 C 13.2
442 A 8120 AX 2066 C 13.2
448 A 8120 AX 2066 C 13.2 X
X 450 cF-F A 8120 AX 12.9 2066, AX 12.5 1883, AX 12.4 1846 12.6 ✓ b 10, small
478 A 14331 AX 1909 C 13.2
480 A 10343 not found X
481 A 10343, AX 1909 C 13.2
487 A 5757 not found
497 A 8120 AX 2066 C 13.2
519 A 8120 AX 2066 C 13.2
530 A 8020 AX 2066 C 13.2
535 vF ~~~~~ X
538 A 8120 AX 2066 C 13.2
539 A 5757 not found
540 A 14331 AX 1909 C 13.2
541 cF A 8120 AX 2066 C 13.2
543 F A 8120 AX 2066 C 13.2
545 pF A 8120 AX 2066 C 13.2
547 pF A 8120 AX 2066 C 13.2 X
548 A 8120 AX 2066 C 13.2
554 A 14331, AX 1909 C 13.2
555 A 14331 AX 1909 C 13.2
556 A 14331 AX 1909 C 13.2
557 A 8120 AX 2066 C 13.2 X

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1927phae.proj.2319A

1h cont.

558	F	A8120 AX 2066 ⊏13.2				
560	eF	A8120 AX 2066 ⊏13.2				
563		A5757 not found				
564	cF	A8120 AX 2066 ⊏13.2				
565		A8120 AX 2066 ⊏13.2				
567		A10343 not found.				
570		A8120 AX 2066 ⊏13.2				
577		same as N550.				
X 578		A14331, AX 11.7 1909, AX 11.6 2044, AX 11.7 1228	11.7 ✓		spiral, many arms, knots, 5'×3' d 6	
580		AX 2066 carefully examined, net not found.				
583		A5757 not found.				
X 584	vB	A14938, AX 11.6 1909, AX 11.6 2080, AX 11.5 1228	11.6 ✓		stellar	
585	F	B32800 not found.				
586	F	A14938 AX 1909 ⊏13.2				
589		A14916 AX 1909 ⊏13.2				
593		vS Q Dreyer A14916 AX 1909 ⊏13.6				
594		B28520, AX 2080 ⊏13.3				
X 596	cB	A14938 AX 12.3 1909, AX 12.2 2080, AX 12.2 1228	12.2 ✓		stellar	
599	Nr Dec.	A14916 AX 1909 ⊏13.2				
600	eeF	~~~~				
601		A14916 AX 1909 ⊏13.3				
607	No neb. Rem.					
610		A14331 not found				
611		A14331 not found				
X 615	pB	A14938 AX 12.6 1909, AX 12.5 2080, AX 12.6 1228	12.6 ✓		f 5, very small	
617		A14916 AX 1909 ⊏13.2				
622	F	B32800 not found				
624	vf	~~~~				
635		A14331 not found				
X 636	pB	A14938 AX 12.6 1909, AX 12.6 2080, AX 12.7 1228	12.6 ✓		NC 20282 d 8 0.5 stellar	

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1h cont.

	640		A14938 AX1909 [13.2
	647		A14938 AX 1909 [13.2
	648		B28520, AX 2080 [13.2
	649		A14938 AX 1909 [13.2
	655		A14916 not found
	667		A4010 A14331 AX1909 [13.2
X	681	gF cF	A14916 AX 12.8 1909 AX 13.0 2080, AX 12.9 1228 — MC 17947 1.3 — 12.9 :C 9, small
	682	cF	A10257 AX1909 [13.2
	686		A4010 AX 2044 13.2
	689		A4936 not found
	690		A10257 not found
	699		A14916 not found.
X	701	gF	A14938 AX 12.7 1909, AX 12.8 2080 AX 12.7 1228 — 12.7 ✓ — MC 17947 SC 3 1.6 a 7 small
	702	cF	RB 21, AX 2066 [13.2
	707		A14938 AX1909 [13.2
	713		A14938 not found
	715		A9108 not found
X	720	cB	A9108 AX 11.9 1909, AX 11.5 2080, AX 11.7 1228 — 11.7 ✓ stellar
	723		A4010, same as N724.
	724	pB	A4010 AX 2044 13.3
	725		A10257 not found
	726		A9108 not found.
	731	pB	A10495, AX 2066 [13.2
	734		A10257 not found
	747		A9108 not found
	748	pF	A10495 AX 2066 [13.2
	755	cF	A10495 AX 2066 13.2
	756		A10257 not found
	757		A10495 same as N755.
	758		RB 21 not seen.

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1h cont.

762	pF	A10495 AX 2066 C13.2		
763		A10495, AX 2066, not found.		
764		A10257 not found		
767		A9108 not found		
768		MC99, AX 2066 C13.2		
773	cF	A9108		
775		A4936 AX 2044 C13.2		
X 779	cB	A10495, AX 11.7 2066, AX 11.6 1883, AX 11.9 1846	11.7 ✓	d6, small.
787		A10495, AX 2066 C13.2		
788	pB	A10495, AX 13.0 2066, AX 13.2 1883, AX 13.3 1846	13.2 ✓	stellar.
790	cF	A10495 AX 2066 not seen.		
799	eeF	Dreyer MC99, AX 2066		
800	eeF	Dreyer MC99 AX 2066		
806	eeF	vdiffic - Dreyer A9108 not found A4010		
808		A13081 AX 2044 C13.2		
809		A10495 not seen		
811		A10495 not seen		
814		A10257 not found.		
815		A10257 not found.		

✓

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2h

823		A 5761 not found.
829	pF	A 10495, AX 2066 [13.2
830	pF-pB	A 10495, AX 2066 [13.2
833	cF	A 9900, AX 1883 [13.2
835	pB	A 9900 AX 1883 [13.2
836		A 13081 AX 2044 [13.2
837		A 13081 AX 2044 [13.2
838	pB	A 9900 AX 1883 13.2
839	pF	A 9900 AX 1883 [13.2
842	pB	A 10495 AX 2066 [13.2
848	eeF	pl v diffic - Dreyer A 9900, AX 1883 [13.2
849		A 13081 AX 2044 [13.2
850	cF	MC 99, AX 2066 [13.2
853	pF-pB	MC 20299, AX 2066 13.2
856		MC 99 AX 2066 [13.2
858		A 13081 not found
859		MC 99 AX 2066 [13.2
863	F	MC 99 AX 2066 [13.2
866		Not found by Howe
868		eeF, Dreyer. - not seen on AX 2066.
872		A 9106, AX 2026 [13.2
873	pB	A 9900, AX 2026 [13.0
874		A 13081 not found
878		F Globular Cluster A 13081, not found
879		MC 20299 not seen.
880		eF, Dreyer, RB 21, not found.
881	cF	MC 20299 AX 2066 [13.2
883	pB	MC 20299 AX 2066 [13.2
885		RB 21, AX 2066 [13.2
887	cF	A 9106, AX 2026

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0° - 30°

9558 omitted?

2h cont.

892 eF eS E? neb? A13081 not found

894 cF MC 20299, part of N895.

X 895 MC 20299, AX 2066.6 12.3, AX 1883 12.1, AX 1846 12.1 — 12.2 ✓ c10, small low s.b.

899 A13081 AX 2044 13.2

902 MC 20299 not found

905 MC 20299 not found

907 A13081 AX 2044 [13.2

X 908 A13081 AX 2044.4 11.4, AX 1966 11.1, AX 1288 10.8 — 11.1 ✓ spiral 7'x3'

921 A9106, AX 2026 [13.2

X 922 A14998, AX 2044 12.5, AX 1966 12.4, AX 1288 12.1 — 12.3 ✓ c5, small. no good plate.

926 cF RB21, AX 2066 [13.2

929 A7119, AX 2026, [13.2

934 cF RB21, not seen.

X 936 B RB21, AX 2066 11.3, AX 1883 11.6, AX 1846 11.5 — 11.5 ✓ f8, p. small.

941 pF RB21, AX 2066 13.3, AX 1883 13.1, AX 1846 13.4 — 13.3 ✓

942 A7119 AX 2026 [13.2

943 A7119 AX 2026 [13.2

944 A7119 AX 2026 [13.2

945 vF ~~~~

947 no Beschreibung A10274, AX 2026 13.2

948 A7119 AX 2026 [13.2

950 A7119 AX 2026 [13.2

951 n not seen on AX.

955 pB RB21, AX 2066 13.2, AX 1883 12.9, AX 1846 13.3 — 13.1 ✓

958 pF RB21, AX 2066 12.8, AX 1883 12.9, AX 1846 13.2 — 13.0 ✓ c6, small

960 A7119, AX 2026 [13.2

961 MC 17882, not seen

963 RB21, AX 2066 [13.2

965 A10274 not found

966 A10274 not found

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2h cont.

	967	We Bench.	A10274, AX 2026 [13.2		
	977	F	A7119, AX 2066 [13.2		
	981		A7119 AX 2026, [13.2		
	985		MC 17882, AX 2026 [13.2		
	988		A7119 AX 2026 [13.2: very diffic, st. 7.0 sup. preceding.		
	989		A10274, AX 2026 [13.2		
X	991	F	MC 17882, AX 12.9 2066, AX 12.2 1883, AX 12.7 1846	12.6 ✓	p. small, low st.
	1006	eeF, pS, R - Dreyer	A7119, AX 2026 [13.2		
	1010	cF	A7119 AX 2026 [13.2		
	1011	cF-F	A7119 AX 2026 [13.2		
	1013	eeF, vS, R - Dreyer	A7119 AX 2026 [13.2		
	1014		A7119 not found		
	1015	pF-cF	MC 20235, AX 2066 [13.3		
	1017	eeF, vS, R, v diffic - Dreyer	A7119, AX 2026 [13.2		
	1018		A7119 not found.		
X	1022	pB	MC 17882, AX 11.8 2066, AX 12.0 1883, AX 12.1 1846	12.0 ✓	stellar
	1033		MC 17882, not seen.		
	1034		A10274, AX 2026 [13.2		
X	1035	cF	MC 17882, AX 12.8 2026, AX 12.8 2101, AX 12.7 1872	12.8 ✓	3, p. small.
	1037	eeF, vS, mE, v diffic - Dreyer	MC 20235, AX 2066, not seen.		
	1041		MC 17882 AX 2066 [13.2		
	1042	eeF, L, R - Dreyer	MC 17882 not seen		
	1045	pF	A7119, AX 2026 [13.2		
	1047	eeF, pS, R, v diffic - Dreyer	MC 17882 not seen.	✓	
X	1048		MC 17882, AX 12.5 2026, AX 12.6 2101, AX 12.5 1872	12.5	low, surf. br. a 10, perhaps v. large?
	1051		MC 17882, AX 2066 [13.2		
X	1052	B	MC 17882, AX 11.4 2026, AX 11.6 2101 AX 11.8 1872	11.6 ✓	stellar
X	1055	!pF	MC 20235, AX 11.9 1883, AX 11.7 2066, AX 11.9 1846	11.8 ✓	c 4, p. large.
	1063		MC 17882 AX 2066 [13.2		
	1064		MC 17882 not seen.		

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1065		A 10274, AX 2026 [13.2			
X 1068	!! vB	MC 20235, AX 1883 (9.9), AX 2066 (10.3), AX 1846 (10.0)	10.1 ✓	3'X2.5	spiral, br. nucleus.
1069		MC 17882, AX 2026 [13.2			
1071		MC 17882 not seen.			
1072		MC 20235 not seen			
1074		A 10274 not seen			
1075		A 10274 not seen			
1076		A 10274, AX 2026 [13.2			
1078		A 7119 not found	MF 8278 ✓		d 7: 1.1:
X 1079		A 8172 AX 2044 (12.5), AX 1966 (12.5), AX 1288 (12.7)	12.6		stellar
1080		MC 17882, AX 2066 [13.2.			
1081		A 10274 not seen.			
1082	eeF, pS, lE - Dreyer	MC 17882, AX 2026 [13.2			
1083	eeF, pS, mE - Dreyer	A 10274, not seen.			
X 1084	B	MC 17882, AX 2066 (11.2), AX 2101 (11.0), AX 1872 (11.3)	11.2 ✓		pspiral. c 8, spiral
X 1087	pB	MC 20235, AX 2066 (10.9), AX 1883 (11.0), AX 1846 (11.5)	11.1 ✓		c 8, 2½x2'
1089	eeF, S, R - Dreyer	A 10274 not seen.			
X 1090	cF-pF	MC 20235 AX 2066 (12.7), AX 1883 (12.5), AX 1846 (12.8)	12.7 ✓		b6 small, low sb.
1091		A 10274 not seen			
1092		A 10274 not seen.			
1094	cF	MC 20235 AX 2066 [13.3			
1098		A 10274 not seen			
1099		A 10274 not seen			
1100		A 10274 not seen			
1102		A 4982, AX 2101 [13.2			large?
1103		A 10514 not seen			
1104	F	MC 20235 AX 2066 [13.2			
1105		A 8185, AX 2026 [13.2			
1108		MC 20121, AX 2026 [13.2			
1110		MC 20121 AX 2026 [13.2			

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2h cmt.

1114	pF	A10274, AX 2026 13.2
1118		A10514, AX 2026 [13.2
1119		A10274 not seen.
1120		A10514 not seen
1121		MC 20235 AX 2066 [13.2
1124		A 8172 not seen.
1125	pF-cF	A8185, AX 2026 [13.2
1126		MC 20235, AX 2066 [13.2
1132	vF	———
1133		MC 20121, AX 2026 [13.2
1139		A10514 not seen
1140	cB	A10514, AX 2026 12.8, AX 2101 13.0, AX 1872 13.1 — 13.0 ✓ stellar
1141		Double 12 mag. stars. No nebulae seen. Rien.
1142		
1143	cF	MC 20235 AX 2066 [13.2
1144	pF	MC 20235 AX 2066 [13.2
1145	vB Becker.	A8185, AX 2026 [13.2
1147		MC 20121 not seen
1148		MC 20121 AX 2026 [13.2
1149		MC 20097 AX 2066 [13.2
1150		A8185 not seen
1151		A8185 not seen
1152	..	MC 20121 AX 2026 [13.2
1154	cF	A10514 not seen
1155	cF	A10514 not seen
1157		A8185, AX 2026 [13.2
1158		A10514 not seen
1162	pB	A10514, AX 2026 13.2
1163		A8185, AX 2026 [13.2
1172	pF	A8185, AX 2026 12.9, AX 2101 13.0, AX 1872 13.3 — 13.1 ✓ stellar

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1179		A8185, AX 2026 12.9, AX 2101 13.0, AX 1872 13.0	13.0 ✓	large, low s/b.
1180		A8185 not seen		
1181		A8185 not seen		
1182		A10514, AX 2026 [13.2		
1185	n	AX 2026, not seen.		
X 1187		A4085, AX 2026 11.3, AX 2101 11.4, AX 1872 11.2	11.3 ✓	b8 p. 4'X3' large.
1188		A8185, AX 2026 [13.2		
1189		A8185 not seen		
1190		A8185 not seen		
1191		A8185 not seen		
1192		A8185 not seen		
1194		MC 20097 AX 2066 [13.2		
1195	vF	——		
1196	F	A10514 AX 2066 [13.2		
X 1199	pB	A8185, AX 2026 12.7, AX 2101 12.7, AX 1872 12.7	12.7 ✓	C10; 0'.6; stellar
1200	pF	A10514 AX 2026 [13.2		
X 1201		A4092, AX 2044 12.1, AX 1288 11.9 AX 1966 11.9	12.0 ✓	My F8283 prob. spheroid C10, small
1202	n	AX 2026, not seen.		
1203		A10514 not seen.		
1204		A10514 not seen.		
1205		A10514 not seen		
1206	n	AX 2026, not seen		
1208	pB	A10514, AX 2026 13.2		
X 1209	cB	A8185, AX 2026 12.4, AX 2101 12.5, AX 1872 12.5	12.5 ✓	C9; 0'.6; stellar
1210		A4092 not found.		
1211		MC 20097, AX 2066 [13.2		
New		A5761, AX 2044 12.9, AX 1966 13.0, AX 1288 13.2	13.0 ✓	

✓

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156

3 n

1214	n	A 10514 not seen		
1215	n	A 10514 not seen		
1216	n	A 10514 not seen		
1221	n	A 8096 not seen		
1222	n	A 8096, AX 1930 [13.2		
1223	n	A 8096 not seen		
1225	n	A 8096 not seen		
1228	n	A 4085 not seen		
1229	n	A 4085 not seen		
1230	n	A 4085 not seen		
1231	n	A 10300 not seen.		
X 1232		A 4085, AX 2026 11.3, AX 2101 10.8, AX 1872 11.2	11.1 ✓	4:x3: d 10, spiral?
1234	n	AX 2026 not seen		
1237	n	AX 2026 not seen		
1238	n	14494 AX 2026 [13.2		
1239	No Bracket	A 8096, AX 1930 [13.2		
1241	cF	AX 2026 13.0, AX 2101 13.0, AX 1872 12.9	13.0 ✓	stellar?
1242	F	AX 2026 [13.2		
1243	F	AX 2026 [13.2		
1247	F	A 14494, AX 2026 13.4		
1248	pF	AX 2026, AX 2101, 13.2.		
1253	F	A 8096, AX 1930 [13.2		
X 1255	n.	A 4092, AX 1479 12.2, AX 1340 11.9, AX 1888 11.8	A 14949 ✓ 12.0	s b 7, 3.5
1256		A 4085 not seen		
1258	n	A 4085 not seen.		
1262	n	A 10300 not seen		
1263	n	A 10300 not seen		
1266	cF	A 8096 AX 1930 [13.2		
1280	n	A 8096 AX 1930 [13.2		
1284	VF			

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3h cont.

	1285	cF	AX 2026 13.2		
	1286	n	AX 2026 C13.2		
	1287	VF	——— .		
	1289	n	A 8096 . AX 1930 13.2		
	1290	n	A 14494 AX 2026 C13.2		
X	1292		A 4092 . AX 12.9 1479, AX 12.5 1340, AX 12.7 1888	12.7 ✓	no good plate
	1295	n	A 14494 AX 2026 C13.2		
	1296	n	A 14494 AX 2026 C13.2		
	1297	n	A 10300 AX 13.0 2026, AX 12.9 2101, AX 13.0 1872	13.0 ✓	very small
	1298	F	A 8096 AX 1930 C13.2		
	1299	pF	MC 20098, AX 1930 13.2		
X	1300	No Reading	A 10300 AX 11.8 2026, AX 11.5 2101, AX 12.1 1872	11.8 ✓	5' X 3' p. large, ff, spiral
	1301	n	A 10300 not seen		
X	1302	n	A 4092, AX 12.0 1479, AX 11.9 1340, AX 11.8 1888	11.9 ✓	A 14949 d9 1.5-
	1303	vF	——— .		
	1304	vF	———		
	1305	F	A 8096 AX 1930 C13.2		
	1306	n	A 4092 AX 1479 C13.2		
	1307	n	A 8096 not seen		
	1308	F	A 8096 AX 1930 C13.2		
X	1309	pB	A 10300, AX 11.9 2026, AX 12.0 2101, AX 11.6 1872	11.8 ✓	spiral, d 10, small
	1314	n	A 8096 AX 1930 C13.2		
	1315		A 14945, AX 2026 C13.2		
	1319		A 14945 AX 2026 C13.2		
	1320	/	A 8096 AX 1930 C13.2		
	1321	/	A 8096 AX 1930 C13.2		
	1322	/	A 8096 AX 1930 C13.2		
	1323	/	A 8096 AX 1930 C13.2		
	1324	F	MC 20098, AX 1930 C13.2		
X	1325		A 14945 AX 12.9 2026, AX 13.0 1872, AX 12.8 2101	12.9 ✓	long streak, bright sup. N.F.

A 4 + A 13105 s; d 3 2.5 X 9.8

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3h cont.

* Note N.G.C. 1360 - Miss Cannon says spectrum is F? no bright lines seen. Long exposure A 14967 - shows neb as planetary in appearance. B 24451 shows nebulosity at green end of spectrum. Planetary.

1328	n	A 8096 not seen			
1329	no duplicate	A 10300 AX 2026 13.3			
X 1332		A 14945, AX 2026 11.4, AX 2101 11.5, AX 1872 17.4	11.4 ✓		e 3, 3' x 1.5'
X 1337	n	RB 22 AX 2026 12.9, AX 2101 12.6, AX 1872 12.5	12.7 ✓		b 3, p. large
1338	n	A 14495, AX 2026 [13.2			
1345		A 9859 AX 2026 [13.2			
1346		MC 20098, AX 1930 [13.2			
1347	n	A 14945, AX 2026 [13.2			
1352		A 9859 not seen			A 13105
X 1353		A 14945 AX 2026 12.3, AX 2101 12.3, AX 1872 12.3	12.3 ✓		s f 4 2.5
1354		A 9859 AX 2026 [13.2			
1355		MC 20098 AX 1930 [13.2			d 10 1.1'
X 1357		A 14495, AX 2026 12.5, AX 2101 12.5, AX 1872 12.4	12.5 ✓		stellar ff. outer rim
1358		MC 20098 AX 1930 13.1, AX 1939 13.1, AX 2024 13.0	13.1 ✓		
X 1359		A 14945 AX 2026 12.9, AX 2101 12.9, AX 1872 12.7	12.8 ✓		i b 8 double? 1.6
~~X 1360~~		~~A 14400, AX 1479 11.0, AX 1340 10.7, AX 1888 10.8 * Note~~	~~10.8~~		A 13105
1361	n	MC 20098, AX 1930 [13.2			Planetary
1362		A 14945 AX 2026 [13.2			
1363	n	A 14495, AX 2026 [13.2			
1364	n	A 14495 AX 2026 [13.2			
1367	n	A 14400, AX 1479 [13.2			
1368	n	A 9859 not seen			
1370		A 14945 AX 2026 (unresolved) [13.2			
X 1371		A 14400, AX 1479 12.5, AX 1872 11.9, AX 1888 12.1	12.2 ✓		A 14949 prob s; e 7 2.0 ϕ spir.
1372	n	A 9859 not seen.			
X 1376		RB 22, AX 1930 12.7, AX 1939 12.9, AX 2024 13.1	12.9 ✓		no good plate plange, loaf?
1377		A 14945 AX 2026 [13.0.			
1383		A 9859 AX 2026 [13.0			A 14949
X 1385		A 13083 AX 1479 12.1, AX 1340 11.8, AX 1888 11.6	11.8 ✓		s d 6 2.6 x 1.4
N 1388	n	A 9859 not seen.			
X I 1953		A 14945, AX 2026 12.6, AX 2101 12.5, AX 1872 12.4	12.5 ✓		A 13105 s b 10, 2.4 x 2.4 loose?

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3h cont.

1390	n	A9859 AX 2026 C13.2			
1391	n	A9859 not seen			
1393		A9859 AX 2026 C13.2			
1394	n	A9859 AX 2026 C13.2	also A13105	spheroidal C 8	1'X0.8'
X 1395		A13083 AX 2026 10.9, AX 2102 11.3; AX 1479 11.5	11.2	stellar	
1397		RB 22? AX 1930 C13.2			
X 1398	n	A14400, AX 1479 11.5, AX 1340 11.2, AX 1888 11.2	A14967 11.3	very ft. oval arms S e 9 4"x3.5" spir	
X 1400		A9859 AX 2026 12.6, AX 2101 12.3, AX 1672 12.7	12.5	stellar	
1401		A13083, AX 2026 13.2			
1402	n	A9859 AX 2026 C13.2			
1403	n	A13083, AX 2026 C13.2			
1405	n	A9859 not seen			
X 1407		A9859 AX 2026 11.4, AX 2101 11.4, AX 1872 11.8	11.5	stellar	
1409		RB 22, AX 1930 C13.2			
1410		RB 22 AX 1930 C13.2			
1412		A14400 not seen			
1413	n	A9859 not seen			
1414	n	A13083 AX 2026 C13.2	A13105	S:e S 2'X1'	
X 1415		A13083 AX 2026 13.0, AX 2101 12.9, AX 1479 12.7	12.9		
1416	n	A13083 AX 2026 C13.2			
X 1417	pF	RB 22 AX 1930 12.9, AX 1939 13.0, AX 1024 12.9	12.9		
1418	cF	RB 22 AX 1930 C13.2			
1420	F	RB 22, AX 1930 C13.2			
X 1421	pBpF	A14495, AX 2026 12.3, AX 2102 11.8, AX 1872 11.9	12.0	k2, irreg 4'x0.5	
1422	n	A13083 AX 2026 C13.2			
1423	n	RB 22 not seen.			
1424	cF	RB 22, AX 1930 C13.2	A13105	C7 0.6	
X 1426		A13083 AX 2026 13.0, AX 2101 12.8, AX 1479 12.8	12.9	spheroidal	
1429	n	RB 22 not seen.			
1430	n	A9859, AX 2026 C13.2			

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3h cont.

1434	w	A 14495, AX 2026 [13.2			
1438	w	A 13083 AX 2026 [13.2			
1439		A 13083, AX 2026 (13.1), AX 2101 (12.9), AX 1479 (12.9)	13.0 ✓	A 13105 C10	0.6
1440		A 9859, AX 2026 (13.1), AX 2102 (12.8), AX 1872 (13.0)	13.0 ✓	stellar	
1441	pF-eF	RB 22, AX 1930 [13.2			
1442		Same as 1440 - Rem. ⇒ 9859			
1443	w	RB 22 not seen			
1445	w	A 14495 AX 2026 [13.2			
1446	w	RB 22 not seen			
1447	w	RB 22 + AX 2026, not seen			
1449	F	RB 22 AX 1930 [13.2			
1450	w	RB 22 + AX 2026 not seen.			
1451	eF	RB 22 AX 1930 [13.2			
1452		A 9859, AX 2026 (13.0), AX 2102 (12.9), AX 1872 (13.1)	13.0 ✓	stellar	
X 1453	pB	RB 22 AX 1930 (12.7), AX 1939 (12.8) AX 2024 (12.9)	12.8 ✓	stellar!	
1454	w	A 13083, AX 2026 [13.2			
1455	w	A 9859 AX 2026 [13.2			
1459	w	A 14400, AX 1479 [13.2			
X 1461		A 4217 AX 2026 (12.9), AX 2102 (12.7), AX 1872 (12.9)	12.8 ✓	no good plate. stellar	
1464	w	A 4217, AX 2026, not seen			
1467	w	RB 22 not seen			
1468	w	RB 22 AX 1930 [13.2			
1470	w	RB 22 not seen			
1471	w	A 4217, AX 2026 not seen			
1472	w	RB 22 not seen			
1475	w	RB 22 not seen			
1477	w	RB 22 not seen			
1478	w	RB 22 not seen			
1479	w	A 9912 not seen			
1480	w	A 9912 not seen			

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1927phae.proj..2316A

13h cont

1481		A 10516 & A X 2026 not seen		
1482		A 10516 and AX 2026, not seen.		
1486	n	A 10516 not seen.		
1489	n	RB 22 not seen		
1498		Cluster Anon A9912		
1504	n	MC 20123, A X 1930 E 13.2		
1505	n	MC 20123 A X 1930 E 13.2		
X 1507	pF	RB 22 AX 1930 (12.7), AX 1929 (12.9), AX 2024 (13.1)	12.9 ✓	no good plate for dens. b 3, p large.
1509	n	A 9912 not seen		

✓

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4 n

	1516	/	RB 22, MC 20123, AX 1930 C13.2		
X	1518		B 5730 AX 1479 11.9, AX 1340 12.1, AX 1888 12.0	12.0 ✓	f4
	1519	n	A 14437, AX 2161 C13.2		
	1521		B 5730, AX 1479 13.0, AX 1340 13.0, AX 1888 13.2	13.1 ✓	
	1524	n	RB 22 } MC 20123, AX 1930 C13.2		
	1525	n	RB 22 }		
	1535	Pl?	tary A 4221 Planetary, Rein.		
	1538	n	A 4221 not seen		
	1540		A 14932, AX 1479 C13.2		
	1547	n	A 14437, AX 2161 C13.2		
	1552	F	RB 22?, MC 18151, AX 1930 C13.2		
	1561	n	A 14437 not seen		
	1562	n	A 14437 not seen		
	1563	n	A 14437 not seen		
	1564	n	A 14437 not seen		
	1565	n	A 14437 not seen		
	1568	n	RB 22, MC 18151, AX 1930 C13.2		
	1575	n	A 4221, AX 2161, not seen.		
	1576	F	A 8107 AX 1930 C13.2		
	1577		Same as 1575. Dreyer		
	1580	vF	~~~~~~~~		
	1583	n	A 4015 not seen		
	1584	n	A 4015 not seen		
	1586	vF	~~~~~~~~		
	1591		A 3448, AX 1479 C13.2		
	1594	n	RB 22, MC 20100 not seen		
	1597	n	A 6577, AX 2161 C13.2		
	1599	n	A 8107, MC 20100, AX 1930 C13.2		
X	1600	pB	RB 22, MC 20100, AX 1930 12.8, AX 1939 12.6, AX 2024 12.6	12.7 ✓	
	1601	F-vF	~~~~~~~~		

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4h cont.

1603	vF	———
1604	n	MC 20100, AX 1930 C13.2
1606	F	RB 22, MC 20100 not seen
1607	n	A8106, MC 20100, AX 1930 C13.2
1609	cF	A8106 MC 20100, AX 1930 C13.2
1610	n	A8106, MC 20100, AX 1930 C13.2
1611	vF	~~~~~
1612	n	A8106 MC 20100, AX 1930 C13.2
1613	n	A8106 MC 20100, AX 1930 C13.2 — 2 other ref. always to be here.
1614	n	A8106 MC 20100, AX 1930 C13.2
1618	F	A8106 AX 1930 C13.2
1619	n	A8106, MC 20100, AX 1930 C13.2
1620	vF	~~~~~
1621	n	A8106, MC 20100, AX 1930
1622	cF	A8106 AX 1930 C13.2
1623		A6577 AX 2161 C13.2
1625	F	A8106 AX 13.1 1930, AX 13.1 1939, AX 13.2 2024 — 13.1 ✓
1626	n	A8106, MC 20100 not seen
1627	n	A8106, MC 20100, AX 1930, 13.2
1628	n	A8106, MC 20100 not seen.
1630	n	A4015 AX 2161 C13.0
1631		A14376, AX 2161 C13.0
1632	n	RB 22, I 34375 not seen
1635	cF	A8106, AX 1930 C13.2
1636		RB 22, I 34375, AX 2161 C13.2
X 1637	cF	A8106, MC 20100, AX 11.7 1930, AX 11.6 1939, AX 11.6 2024 — 11.6 ✓
1638	pB	A8106 AX 13.1 1930, AX 13.0 1939, AX 13.1 2024 — 13.1 ✓
X 1640	n	A14376, AX 12.6 2161, AX 12.6 881, AX 12.6 2130 — 12.6 ✓ e 4, small spiral
1643	F+B	MC 20100, AX 1930 C13.2 — A14989 A14973 S:24 1.5
1645	F+F	MC 20100, AX 1930 C13.2
I382		I 34375 AX 2161 C13.2

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4h cont.

	1646	cF	I 34375, AX 2161 C13.2		
	1648	n	I 34375 not seen		
	1650	n	A 4015, AX 2161 C13.2		
	1653	pF	A8106, AX 1930, 13.2		
	1654	n	A8106 AX 1930 C13.2		
	1656	pF	MC 20100, AX 1930 C13.2		
	1657	n	A8106 AX 1930 C13.2		
X	1659	pF	MC 20100 AX 1930 13.0, AX 1939 12.9, AX 2024 12.9	[redacted] 12.9	
	1661	n	MC 4190, AX 1930 C13.2		
	1665	vF	~~~~~~~~		
	1666	n	RB 60, MC 20100, AX 1930 C13.2		
X	1667	n	RB 60, MC 20100, AX 1930 12.8, AX 1939 12.9, AX 2024 12.9	12.9 ✓	s:d 10: 1,0!
	1670	F	RB 60, MC 20100, AX 1930 C13.2		
	1671	n	MC 4190, AX 1930 C13.2		
	1677	n	MC 20100, AX 1930 C13.2		
	1678	F	MC 20100, AX 1930 C13.2		
	1681	n	RB 60, MC 20100, AX 1930 C13.2		
	1682	F	RB 60, MC 20100, AX 1930 C13.2		
	1683	F	RB 60, MC 20100, not seen		
	1684	pF	RB 60 MC 20100 AX 1930 C13.2		
	1685	F	MC 20100, AX 1930 C13.2		
	1686	n	A 7616, AX 2161 C13.2		
	1689	n	RB 60, MC 20100, not seen.		
	1692	n	A 14530, AX 2161 C13.2		
	1694	n	I 34375, AX 1930 C13.2		
	1699	n	I 34375 AX 1930 C13.2		
X	1700	cB	RB 60 I 34375, AX 1930 12.8, AX 1939 12.3, AX 2024 12.2	12.4 ✓	
	1709	vF	~~~~~~~~		
	1710	n	A 7616, AX 2161 C13.0		
	1713	F-cF	MC 4190, AX 1930 C13.2		

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1716 A14530 AX 2161 [13.2

1717 ? Neb ★ 14, ~~att~~ ~~appa~~ NGC 1719

1719 cF MC 4190, AX 1930 [13.0

1720 pB RB 60, I 34375, AX 2161 13.2

1721 n RB 60, AX 2161 [13.2

1723 n RB 60, AX 2161 13.2

1725 n RB 60, AX 2161 [13.2

1726 cF RB 60, I 34375, AX 2161 12.9, AX 881 13.2, AX 2130 12.9 — 13.0 ✓

1728 n RB 60 AX 2161 [13.2

1729 F RB 60, I 34375 not seen

1730 n A7616, AX 2161 13.2

1738 n A14464 } not resolved on AX 2161, continued may 13.1

1739 n A14464 }

1740 cF RB 60, I 34375 not seen

1741 n RB 60, I 34375, AX 1930 [13.2

1742 F RB 60 I 34375 not seen

X 1744 A14327, AX 1479 12.8:, AX 1340 12.3:, AX 888 12.3: — 12.5: ✓ v. low cfb. 6' x 4' very large ¢ spiral?

1752 pF-cF RB 60, I 34375, AX 2161 13.1, AX 881 13.3

1753 n RB 60, I 34375 not seen

1779 pB RB 60, I 34375, AX 2161 13.2

1781 A14464, AX 2161 [13.2

X 1784 pF A10349, RB 60, AX 2161 12.8, AX 881 12.9, AX 2130 12.7 — 12.8 ✓

~~X 1788 !B.~~ ~~RB 60, I 34375, AX 1930 11.3, AX 1939 11.5, AX 2029 11.2~~ — 11.3 ✓ ★

IC 2106 A14327 AX 1479 [13.2

Mengel 0507-1454.5 A7616, AX 2161 13.0, AX 881 13.1, AX 2130 13.2 — 13.1 ✓ S 2 X 1.5'

✓

★ Lick XIII and Helwan Bull 22 give this as diffuse neby, surrounding two stars.

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5h

	1780	n	A14464 AX2161 [13.2
	1794		Same as 1781 - Rein. A14464
	1797	n	RB60, AX 2161 [13.2
	1799	n	RB60, AX2161 [13.2
	1811		A14327, AX1995 [13.2
	1812		A14327, AX1995 [13.2
	1821	n	A7616, AX2161 [13.2
X	1832	/	A7616, AX2161 (12.6), AX881 (12.7), AX2130 (12.5) — 12.6 ✓ 2.0 x 1.5 small spiral, a 6 s e 8
	1843	pF-pB	A10349, RB60, AX2161 13.2
	1886	n	A14322, AX2126 [13.2
	1888	/	A10349 } not resolved on AX2161, counted mag 13.0
	1889	/	A10349 }
	1904		A14322, globular Cluster
	1906	n	A14464, AX2161 [13.2
	1908		Not seen. Rein.
	1909		Not seen - Rein.
	1924	c F	[illegible]
	1927		Not seen - Rein.
	1954	/	A4222, AX2161 [13.2
	1957	n	A4222 AX2161 [13.2
X	1964		A14322 AX2161 (11.8), AX881 (12.0), AX2130 (12.1) — 12.0 ✓ 5' X 2.5 spiral very ft. arms, br. N.
	1973	eL,B	Star (irrelevant)
	1975	/	Double Star, Rein.
	1976		Mr. Bok's diffuse nebula in Orion, (Rein.)
	1977		Star, Rein.
	1979		A14322, AX2161 13.2
	1980		Star, Rein.
	1981		Cluster, Rein.
	1982		Star, Rein.
	1990		Star, Rein.

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5h cont.

1993 A 14438, AX 2126 ⊏13.2

1999 Star, Rein.

2017 Cl & L st 14438 Cluster.

2023 A 2199 diffuse, Reinmuth.

2024 A 2199 diffuse, Reinmuth

2064 A 2199 diffuse, Rein.

2068 A 2199 diffuse, Rein.

2073 RB 171, AX 1995 ⊏13.2

2076 A 14438, AX 2126 ⊏13.2

2089 RH 2529, and AX 2126 not seen.

2106 RB 171, AX 1995 ⊏13.2

2110 A 8201, AX 2161 ⊏13.2

2124 RB 171, AX 1995 ⊏13.2

2131 A 14578, AX 1995 ⊏13.2

X 2139 A 14578, AX 1995 (12.5), AX 1482 (12.6), AX 2212 (12.4) 12.5 ✓ s d 9, 2 x 1.8

2142 RH 2529, B 26515, AX 2161, nebulosity around st. not seen, 12.6 ✓ stellar

X 2149 RH 2529, B 26515, AX 2161 (12.5), AX 881 (12.7), AX 2130 (12.7) no good plate.

~~I 411~~ ~~A 14322~~

~~I 2129~~ ~~A 14322~~

~~2130~~ ~~A 14322~~

~~2138~~ ~~A 14322~~

I 2132 A 4222, F.A. chart 5h - 15°, not seen.

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6h

	2167		star, Rein.
	2170	pF	diffuse neb. surrounding star, B53757 - ✓
	2179		A 4306, AX 13.0 1995, AX 13.1 1482, AX 12.9 2169 — 13,0 stellar
	2182		star, Rein.
	2183	eF	———
	2184		Cluster - Drey., Rein.
	2185		star in neby, Rein.
X	2196		A 4306, A 12.5 1995, AX 12.8 1482, AX 12.6 2169 — ✓ 12.6 stellar
	2206		A 14564, AX 1482 C13.2
X	2207		A 4306, A 12.3 1995, AX 12.2 1482, AX 12.3 2169 — ✓ 12.3 large, elongated.
	2211	n	A 10528, AX 2131 C13.2
	2212	n	A 10528 A.X 2131 C13.2
	2216		A 14555, AX 1482 C13.2
X	2217		A 14564, AX 12.5 1482, AX 12.6 1995, AX 12.6 2169 — ✓ 12.6 ϕ spiral, 5'X4' ff. arms
	2219		Cluster Drey., Rein.
X	2223		A 14555, AX 13.0 1482, AX 12.6 1995, AX 12.6 2169 — ✓ 12.7 open spiral, very ff. Arms 3.5X2.5
	2225		Cluster Drey. Rein. 5 f 7
	2226	n	very F., Rein
	2227		A 14555, AX 1482 C13.2
	2232		Cluster + B st. Drey., Rein.
	2250		Cluster - Drey., Rein.
	2260		Cluster - Drey., Rein.
	2263		A 14555, AX 1482 C13.2
	2271		A 14555, A X 1482 C13,2
	2272		A 14591, AX 1482 C13.2
X	2280		A 14591, AX 12.7 1482, AX 12.8 1995, AX 12.7 2169 — ✓ 12.7 spiral 4'X1.5
	2283	F	A 14404, RB 118 C13.2
	2286		Cluster - Drey., Rein.
	2287		Cluster - Drey.
	2292		A 14591, AX 1482 C13.2

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1927phae.proj..2319A

6h cont.

2293 A 14591, AX 1482 ε13.2

2295 A 14591, AX 1482 ε13.2

2296 w A 14404, RB 118 ε13.2

2299 Cluster - Drey- not a neb, Rein.

2302 Cluster - Drey- , Rein.

2306 Cluster - Drey- not a neb, Rein.

2309 Cluster - Drey- Rein.

2311 Cluster - Drey- Rein.

2313 F, MF 1285-8, AX 2131 ε13.2

2316 pF MF 12858, RB 118 mag 13.0, on central line of M.W. what is it?

2317 star, Rein.

2318 Cluster - Drey- , Rein.

2323 Cluster - Drey- Rein.

X 2325 A 10358, AX 12.8 1495, AX 13.1 1482, AX 12.9 2169 — 12.9 v

2327 cF A 14439, galactic, diffuse nebulosity. 15050 C7: 1.5:

2335 Cluster - Drey- Rein.

2215 Cluster Drey.

2204 Cluster Drey.

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7h.

2338	Cluster-Drey. not a neb. Rein.
2343	Cluster-Drey. Rein.
2345	Cluster-Drey. Rein.
2346	star, Dreyer. ? Rein lost.
2349	Cluster-Drey. not a neb. Rein.
2351	Cluster-Drey. not a neb. Rein.
2352	Cluster-Drey.
2353	Cluster-Drey. Rein.
2354	Cluster-Drey.
2358	Cluster-Drey. —
2359	With N2361 forms a large region of diff neby.
2360	Cluster-Drey. —
2361	See N2359.
2362	Cluster-Drey-
2364	Cluster-Drey- Rein.
2367	Cluster-Drey.
2368	Cluster-Drey. —
2374	Cluster-Drey. —
2377	MF10090, not seen.
2380	A 14621 AX 1480 13.2
2382	A 14621, same as N2380?
2383	Cluster-Drey.
2384	Cluster-Drey.
2396	Cluster-Drey. —
2401	Cluster-Drey. —
2409	Cluster-Drey. —
2413	Cluster-Drey. —
2414	Cluster-Drey. —
2421	Cluster-Drey.
2422	Cluster-Drey. —

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0° to -30°

7h cont.

2423 Cluster-Drey, —
2425 Cluster-Drey, —
2428 Cluster-Drey, —
2430 Cluster-Drey —
2432 Cluster-Drey Rein.
2437 Cluster-Drey —
2438 Planetary-H.H.P. —
2440 Planetary-H.H.P.
2447 Cluster Dreyer.
2448 Cluster-Drey.
2452 Planetary, H.H.P.
2453 Cluster-Drey.
2455 Cluster-Drey
2467 Larg diffuse neb. in milky way.
2478 cluster-Drey —.
2479 Cluster-Drey. —
2482 Cluster-Drey
2483 Cluster-Drey.
2489 Cluster-Dreyer.
2494 CF MC 4192, AX 2191 [13.2
A14440
2501 — MF 11348, AX 2131 [13.2 ? What is this ?
2506 — Cluster-Dreyer —
2509 Cluster-Dreyer —
A14440
2517 / MF 11348, AX 2131 [13.2
2520 Cluster-Dreyer
A14440 12,3; 12,2 12.1
X 2525 / MF 11348, AX 2131, AX 1960, AX 2180 ——— ✓ sa8, 2'X1.5
12.2 ϕspiral.
2527 Cluster-Dreyer

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2533 Cluster, Dreyer.
2539 Cluster, Dreyer. —
2542 Neb. star. Dreyer —
2548 Cluster Dreyer, Rein.
(2559 MF 11470, AX 2109 12.6, AX 2213 12.7, AX 1480 12.5 Probably planetary What is it? H.S.
2564 A 14496, AX 2109 [13.2
2566 A 14496, AX 2109 [13.2 in Vlus gal. or ex-gal? See MF 11470 too
2571 Cluster, Dreyer
2574 n A 10547 not seen
2578 A 10379, AX 1589 [13.2
2580 Cluster Dreyer
2583 n A 10057, not seen
2584 n A 10057 not seen
2585 n A 10057 not seen
2586 n A 10057 not seen
2587 Cluster, Dreyer
2589 n A 10547 not seen
2590 n star, Dreyer, A 10057, not seen
2610 Planetary, H.H.P. Look up.
2612 A 4392, AX 1589 [13.2
X 2613 A 14519, AX 2109 11.4, AX 1480 11.3, AX 2213 11.3 ✓ 11.3 spiral, 6 X 1.8 low sfb.
2615 n A 5129 AX 2191 [13.2
2616 n A 5129, AX 2191 [13.2
2617 n A 5129, AX 2191 [13.2
2627 Cluster, Dreyer
X 2642 VF pl. A 5129, AX 2191 12.8, AX 2108 12.6, AX 2210 12.6 ✓ 12.7 stellar.
2662 A 4392 ?, AX 1589 [13.2
2665 n A 10393 not seen. (not on)
2674 A 10029 not seen
2690 A 7296 AX 2191 [13.2

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8h cmk.

2695	A7296, AX2191 13.2
2696	A7296, not seen
2697	A7296, AX2191 C13.2
2698	A7296 AX2191 C13.2
2699	A7296, AX2191 C13.2
2700	A7296, AX2191 C13.2
2702	A7296, AX2191 C13.2
2703	A7296, AX2191 C13.3
2705	A7296 AX2191 C13.2
2706	A7296, AX2191 C13.2
2707	A7296 not seen.
2708	A7296, AX2191 C13.2
2709	A7296, AX2191 C13.2
2717	A2976 AX1589 C13.3
2721	A7296 AX2191 C13.2
2722	A7296, AX2191 C13.2
2727	A7296 not seen
2733	A7296 not seen
2754	A4383 AX1589 C13.3
2758	A4383 AX1589 C13.3
~~I 524~~	~~A4383~~
~~I 2436~~	~~A4383~~
~~I 2437~~	~~A4383~~

✓

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9h.

X	2763	A3509	AX 1589 12.9, AX 1665 12.5, AX 1036 12.7	12.7 ✓		b10
	2772	A4309	AX 1589 [13.2			
X	2781	A10397	AX 1589 12.6, AX 1665 12.8, AX 1036 12.6	12.7 ✓	A14533	stellar S:23 3,0
X	2784	A4309	AX 1589 11.8, AX 1665 11.7, AX 1036 11.8	11.8 ✓		elong., st. nucleus.
X	2811	A3509	AX 1589 12.5, AX 1665 12.5, AX 1036 12.4	12.5 ✓		stellar
X	2815	A4309	AX 1589 12.8, AX 1665 13.2, AX 1036 12.8	12.9 ✓	A14533 S:e3	3'X1'
	2817	A10398	not seen			
	2821	A4312	AX 1588 [13.2			
X	2835	A4309	AX 1589 12.0:, AX 1665 12.0:, AX 1665 12.0	12.0: ✓	A14533 Sa7	large, lE, 1ft spiral arms, loose 6.0X4.0
	2837	A3509	AX 1589 [13.2			
	2846	A10397	not found.			
	2847	A3509	AX 1589 [13.2			
X	2848	A3509	AX 1589 12.6, AX 1665 12.7, AX 1036 13.0	12.8 ✓		a10
	2851	A3509	AX 1589 [13.2			
X	2855	A10397	AX 1589 12.2, AX 1665 12.5, AX 1036 12.4	12.4 ✓		stellar
	2863	A10397	AX 1589 [13.3			
X	2865	A4309	AX 1589 12.4, AX 1665 12.6, AX 1036 12.8	12.6 ✓	A14533, C7 0,8	spheroidal
	2868	A10397				
	2869	A10397	Identical, and both same as N2863.			
	2876	A10400	not seen			
	2879	A10397	AX 1589 [13.4			
	2881	A10397	AX 1589 [13.4			
	2884	A10397	not seen.			
	2886	A4309	not seen			
X	2889	A10397	AX 1589 12.4, AX 1665 12.4, AX 1036 12.5	12.4 ✓		a10
	2890	A10397	AX 1589 [13.2			
	2891	A4309	not seen			
	2902	A4393	AX 1589 13.1, AX 1665 13.2, AX 1036 13.0	13.1 ✓		stellar
	2904	A14675	AX 1598 [13.2			
X	2907	A10049	AX 1589 12.8, AX 1665 12.8, AX 1036 13.0	12.9 ✓		no good plate - small c9
	2917	A5153	not seen			
	2888	A4312	AX 1598 13.0, AX 2189 13.2, AX 2387 13.0	13.1 ✓		

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	9h				
	2920	A3110	AX 1589 [13.2		
	2921	A3110	AX 1589 13.2		
	2924	A10049	AX 1589 13.1, AX 1665 13.2, AX 1036 13.2	13.2 ✓	small a 8
X	2935	A3110	AX 1589 12.4, AX 1665 12.3, AX 1036 12.5	12.4 ✓	stellar, double?
	2945	A3110	AX 1589 [13.3		
	2947	A4393	not seen		
	2952	A10410	not seen		
	2956	A10049	not found.		
	2969	A10410	AX 1590 [13.2		
	2973	A 14675	RB 781 [13.3		
X	2974	A5153	AX 1590 12.8:, AX 1676 12.6:, AX 2166 12.6:	12.7: ✓	br. st. att.
	2975	A10049	not found		
	2978	A10410	AX 1590 [13.4		
	2979	A10410	AX 1590 [13.4		
	2980	A10410	AX 1590 [13.4		
X	2983	A3110	AX 1589 12.7, AX 1665 12.8, AX 1036 13.0	12.8 ✓	b 10 small
X	2986	A3110	AX 1598 12.1, AX 2387 12.4, AX 1473 12.2	12.2 ✓	b 8 small,
	2989	A3114	AX 1598 13.1, AX 1665 13.0, AX 1036 13.3	13.1 ✓	cS, bg.
	2992	A5828	AX 1590 13.0, AX 1665 13.1, AX 1306 12.9	13.0 ✓	a 9, small
	2993	A5828	AX 1590 13.0, AX 1665 13.0, AX 1036 12.9	13.0 ✓	stellar
	2996	A3096	AX 1598 [13.2		
	3001	A 14675	RB 781 13.0, RB 859 13.2, RB 169 13.3	13.2 ✓	SC 7 1.5 X 1.0
	3007	A5188	AX 1590 [13.2		
	3014	A5188	AX 1590 [13.2		
	3017	A10058	not seen.		
	3022	A5188	AX 1590 [13.2		
	3025	A3096	AX 1598 [13.2		
	3028	A3114	AX 1598 [13.2		
	3029	A5188	not found		
	3030	A5828	AX 1598 [13.4		

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W

9 cont.

	3035	A5188	AX 1590	13.3		
	3037	A2975	not found.			
	3045	A3114	AX 1589	13.2		
	3046	A2975	not found.			
	3047	A10058	not seen			
	3050		AX 1590, not seen [NCC. vF]			
	3051	A2975	AX 1598	13.2		
X	3052	A3114	AX 1589 12.9, AX 1665 12.5, AX 1036 12.9		12.8 ✓	log on plate. prob spir. cS, e9,
X	3054	A3096	AX 1598 12.6, AX 2387 12.5, AX 2189 12.6		12.6 ✓	A14629 S: f6 3.'0
X.	3056	A2975	RB 169 12.8, RB 859 12.6, RB 781 13.0		12.8 ✓	C 10 0.'5 stellar, br. st. very near, north.
	3058	A5828	AX 1589	13.4		
	3064	A5188	AX 1590	13.2		
	3072	A3114	AX 1589	13.2		
	3076	A3114	not seen			
X	3078	A2975	AX 1598 12.4, RB 169 12.5, AX 2189 12.8		12.4 ✓	A 14629 possibly spiral e9 0.'5
X	3081	A3096	AX 1598 12.8, AX 2387 12.7, AX 2189 13.0		12.8 ✓	S: f8 1.'5
	3082	A2975	AX 1598	13.2		
	3083	A10058	not seen.			
	3084	A2975	RB 169	13.2		
	3085	A3114	AX 1589	13.2		
	3086	A10058	not seen.			
	3089	A2975	RB 781 13.1, RB 169 13.0, RB 859 13.0		13.0 ✓	cS, R, br. nucleus
	3090	A10058	not seen.			
X	3091	A3114	AX 1589 12.8, AX 1665 12.7, AX 1036 12.7		12.7 ✓	d 10 stellar
	3092	A10858	not seen.			
	3093	A10058	not seen.			
	3096	A3114	not seen			
	3101	A10058	not seen.			
X	3109	A2975	AX 1598 11.0:, AX 2189 11.5:, AX 2387 11.0:		11.2: ✓	A 14629 Sa 3 very large ca. 10'x4' 12'x3' low surface br.
	3110	A5188	AX 1590	13.2		

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	3112	A3096 not found.				
	3113	A2975 AX 1598 I13.2				
X	3115	A5188 AX 1590 (10.2), AX 1676 (9.8), AX 2166 (9.5)	9.8 ✓			d4 4'x1'
	I2541	A4384 AX 2202 I13.2				
	~~I574~~	~~A5188~~				
	~~I575~~	~~A5188~~				
	~~I586~~	~~A5188~~				
	~~I587~~	~~A5188~~				
	~~I597~~	~~A5188~~				
	I573	A5828				
	I2529	A3096				
X	I2537	A2975, AX 1598 (12.8), AX 2189 (12.6), AX 2387 (12.9)	12.8 ✓	A14629	S:C 7	2.0 low surface br.
	✓					
	~~I2531~~	~~A2975~~				

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10

X	3124	A4384 AX 2202 [12.4:], AX 547 [12.8], AX 2325 [13.1]	12.8 v	a6 2.5 × 1.5 ?	
	3125	A 10084 AX 2387 [13.0], AX 2189 [13.1], RB 169 [12.9]	13.0 ✓	stellar	
	3127	A4384 not seen			
	3128	A 4384 not seen			
	3133	A5832 not found			
	3137	A 10084 AX 2387 [13.3, bright star superposed slightly preceding.			
	3138	A5832 not found			
	3139	A5832 not found.			
	3140+41	A 4384 AX 2202 [13.2 (both)			
	3142	A 7297 AX 1590 [13.2			
	3143	A5832 AX 2202 [13.3			
X	3145	A5832 AX 2202 [12.6], AX 547 [12.5], AX 2325 [12.4]	12.5 ✓	no good plate. e 10, pl	
	3146	A4384 not found			
	3171	A4384 not found.			
	3173	A 10084 AX 2387 [13.3			
X	3175	A 10084 AX 2387 [12.3], AX 2189 [12.2], RB 169 [11.9]	12.1 ✓	b3, c large	
	3176	A 4384 not seen			
	3178	A 4384 AX 2202 [13.2			
X	3200	A 4384 AX 2202 [12.4], AX 547 [13.0], AX 2325 [13.1]	12.8 ✓	3' × 0.8, low s.b., pt nucleus. a3	
	3203	A 10084 AX 2387 [13.0], AX 2189 [13.3], RB 169 [13.2]	13.2 ✓	e3 2.8 × 0.6	
	3208	A 10084 not found.			
	3233	A 2977 AX 1598 [13.3			
	3240	A 2977 not found			
	3242	A 4384 Planetary			
	3243	A 10412 not found			
	3280	A 10092 not found			
	3282	A 3513 not found			
	3285	A 3557 AX 2198 [13.2], AX 1598 [13.1], RB 169 [13.2]	13.2 ✓	stellar	
	3290	A 5160 not found.			
	3292	A 5138 not seen			

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1927phae.proj..231GA

0° to -30°

3295	A10092 not found			
3296	A 10092 not found			
3297	A10092 not found			
3305	A3557 AX 1598 [13.2			
3307	A3557 not found.			
3308	A3557 AX 1598 [13.2			A14720 1.0 x 1.0
X 3309	A3557 AX 1598 (12.8), RB 169 (12.6), AX 2198 (12.7)	12.7 ✓		stellar E
3311	A 3557 A X 1598 [13.2			
3312	A3557 AX 1598 (13.0), RB 169 (13.3), AX 2198 (13.0)	13.1 ✓		
3313	A 3513 not found.			
3314	A 3557 AX 1598 [13.2			
3315	Same as A 3313.			
3316	A 3557, AX 1598 [13.5			
3317	A3557 not found.			
3321	A10092 not found.			
3322	Same as 3321			
3331	A3513 AX 1598 [13.5			
3335	A3513 AX 1598 [13.5			
3336	A3557 AX 1598 [13.5			
3355	A 3513 not found.			
3360	A10092 not found			
3361	A 10092 not found			
3369	A4460 AX 2202 [13.3			
3375N	A7645 AX 2202 [13.3			
3383	A4460 AX 2202 [13.3			
3393	A4460 AX 2202 [13.3			
3402N	A 4394 AX 2202 [13.5			
3404N	A4394 AX 2202 [13.5			
3409	A7202 not found			
3411	A4394 (F) AX 2202 13.3			

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	3420	A7202 AX2202 ☰13.3
	3421 n	A4394 } Identification doubtful. AX2202 ☰13.3
	3422 n	A4394 }
	3431	A7202. AX2202 ☰13.3
	3450	AH460 not found
	3452 w	A4394
	3453	A4460 AX2202 ☰13.3
	3456	A7202 AX2202 ☰13.3
	3459	A7202 AX2202 ☰13.3
	3463	A10097 not found
	3464	AH460 AX2202 13.1, AX2325 13.3, AX547 13.2 — 13.2 ✓ low purp. br.
	3469	A4394 (AX2202 13.4
	3472	A7202 not found.
	3479	A4394 not found.
	3481	A7645, AX2202, 13.2
	3483	A10097 AX1598, 13.2
	3497	A7202 not found. Same as 3528.
	3502	A4394 not found.
	3505	A7202 AX2202 ☰13.3
	3508	A7202 AX2202 13.2
X	3511	A4460 AX2202 11.5, AX2325 12.0, AX547 12.1 — 11.9 ✓ ch, elongated.
X	3513	AH460 AX2202 11.8, AX2325 12.0, AX547 12.1 — 12.0 ✓ ch, elongated.
	3514	A7202 AX2202 ☰13.3
	3518	A7645 not found
	3520	A7202 not found
	3525	A7202 AX2202 ☰13.5
	~~I 604~~	~~A10412~~
	~~I 618~~	~~A10092~~
	I 2593	A10092
	~~I 2595~~	~~A10092~~

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1927phoo.proj.2319

0° to -30°

~~I 626 A 5138~~
~~I 630 A 5138~~
~~I 631 A 5138~~
~~I 624 A 5138~~
~~I 627 A 5898~~
~~I 625 A 3513~~
~~I 2594 A 3513~~
I 629 A 3557
~~I 2597~~ A 3557, AX 1598 [13.2
I 651 A 10122 AX 1590, [13.2
New A 3557 AX 1598 (13.1), AX 2189 (13.2) [13.0 -

✓

~~I 3582 A 3557~~
~~3582 A 3557~~
XI 2627 A 4462 AX 2202 (12.9), AX 2325 (12.8), AX 547 (12.8) 12.8 ✓

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1927phae.proj.2319A

11h

3528	A5984	AX 2202 C13.5	
3529	A5984	AX 2202 13.2	
3537	A4470	AX 2325 C13.5	
3541	A9372	not found.	
3544	A5984 (Not on)	AX 2325 13.3	
3546	A9372	AX 2325 C13.5	
3565 n	A5984	not found	
3566 n	A5984	not found.	
3571	A5984	AX 2325 13.0, AX 2202 13.0, AX 547 13.4	13.1 ✓
3578	A5984	not found.	
3585	A3558	AX 1143 11.5, AX 1076 11.6, AX 1046 11.4	11.5 ✓
3591	A9372	AX 2325 C13.5	
3597	A4462	AX 2202 C13.5	
3617	A3558	AX 1143 C13.3	
3634	A4470	AX 2325 C13.5	
3635	A4470	AX 2325 C13.5	
3636	A4470	AX 2325 13.3	
3637	A4470	AX 2325 12.9, AX 2202 12.9, AX 547 12.7	12.8 ✓
3638	A4470	not found.	
3660	A4470	already done Bk 10:27.	
3661	A9372	" " " "	
3662	A10059 (Not on)	" " " "	
3663	A9372	" " " "	
3667	A9372	" " " "	
3672	A4470	" " " "	
3673	A3558	" " Bk 10:31.	
3676	A9372	" " Bk 10:27	
I 680	A10059	} not bright enough.	
I 690	A4470		
N3679	A4470	" " Bk 10:27.	

✓

M.C. 17041
e 9 0.3

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Decided to omit all objects called
pF, cF, F, vF and eF if also called S, vS or eS.

~~and objects~~ c

Look up N2559 on MF 11470 ✓
N3699 on A2525 ✓
Whirlpool vet. (N5194?) A2512 ✓
N6140 not done. pg. 85 Book ✓.

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20h cont. from pg 133
6985 n A 3718 not seen.
6986 n A 7381 AX 1205 [13.2
6993 n Not on A 13011
6994 small Cluster Rein
6998 not found on no A 13011 eef, vS
6999
7001 pF A 8992 AX 1762 [13.0
7005 small Cluster Rein.
7009 Planetary
7010 eF
7016 n A 13011 Not found
7017 n A 13011 Not found
7018 n A 13011 Not found
7019 n A 13011 not found.

21h (beginning)
7030 n A 9042 not seen
7035 n A 13099 not seen
7047 pF A 8193 AX 791 [13.2
7051 pF A 10197 AX 1205 [13.2

(continued on pg. 134)

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10	12.5	10.9			
	6.2	30.4			
G 5 2	164.9	88.8			
B.D. 12958	13.2	8.9	12 26 4.9	+15 30.2	
BD 13745			12 27 3.4	+15 21.9	
			45"	8.3	
10	3.2	4.5			
	10.0	4.4			
11.					
+12 7584	13.2	8.9	12 26 4.9	+ 12 26.2	
+13 4786			12 27 3.4	+ 13 0.9	
			√2.6		

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1927phae.proj..231W

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