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1923
On A plate No. 12193

bn = bright on north side.
bs = " " south ",

Standard descriptions
Nos. 1 = eeF eeS
2 = eF eS
Not used until after passing
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Measured, June 28 —

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2

For one set of stars the algebraic differences should not spread over 0.9 or 1.0.

Nebula No.

	X	Y	Comp. *	R.A. Pos. 1900
905	20.4	1.8	9866	22 22 8
	-1.1	-11.3	9869	24 14
	8 1,6	(1875 Pos.)	RA 22 20 35.7 22 22 42.2	22 ~~23~~ 14
	-4.4		Dec -47, 30.9 -47° 18.3	+120
			+1m 32s +26	~~6.5~~ -7
~~898~~	~~24.3~~	~~25.3~~	9875	
	8.2	18.3 ?	~~9878~~	
			Reject	
899	22.4	15.1	9875	22 25 39
	6.1	12.0	9878	22 27 14
	8 9,6		22 24 6.5 22 25 42.0	132
	24.4		-47 48.3 -47 45.4	36
			+1.32 +7.7	
900	17.6	1.5	"	
	1.3	-1.5	"	
	7 0.4			103
	5.2			~~7~~
901	11.9	0.7	"	
	-4.3	-2.2	"	
	47.6			71
	-17.2			=26

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$\sec\delta(4\Delta x'') = \Delta x^2 = \frac{4\Delta x''}{\cos\delta} = \Delta x^2$

Dec. Pos 1900	RA. Reduced.	Dec Reduced	Description
	1900	1900	
−47° 23.3	22 24 .8	−47 21.5	eF vS bM
−47° 10.7	22 24 7	−47 22.0	
1.47	22 24 .8	−47 21.8	
−47°			eF .2′ RR vbM
−47°			
		Reject	
40.6		25.5	
−47° ~~34.3~~	22 27 51	−47 ~~19.2~~	eF .2′
−47° 37.7	22 27 50	−47 25.7	
1.49	22 27 50	−47 25.6	
		39.1	
	22 27 22	−47 ~~32.6~~	eF .1′ bM
	22 27 21	−47 39.2	
	22 27 22	−47 39.2	
	22 26 50	−47° 39.9	eF .2′ x .05′ IE
	22 26 48	39.9	
	22 26 49	−47 39.9	

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4

(2-35)

119				
	1.1	-6.1	9879	22 28 32
	-20.7	-3.7	9881	22 30 38
	4.4		22 27 1.0 22 29 6.5	6
	-828		-47° 4.0 -47° 6.3	-122
			+1.31 +7.7	
118				
	(-5.2 X	0.0	"	
	~~-20.8~~ -26.8	2.0	"	
	-20.8			-31
	-107.2			-157
#27				
	5.9	-2.1	"	
	-15.9	-0.2	"	
	23.6			35;
	-63.6			-93
28				
	7.2	-2.0	"	
	-14.7	-0.1	"	
	28.8			42
	-58.8			-86
906				
	-4.7	2.3	"	
	-26.7	4.4	"	
	-18.8			-28
	-106.8	✓		-157

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-46	56.3	22	28	38	-47° 2.4	eF .2d R 6M
-46	58.6	22	28	36	-47° 2.3	
	1.47	22	28	37	-47 2.4	

22	28	1	-46°	56.3
22	28	1	-46°	56.6
22	28	1	-46	56.4

eF .1d 9 6M

22	29	7	-46°	58.4
22	29	5	-46°	58.8
22	29	6	-46	58.6

vF ,1by,3' IE at 45° defect?

22	29	14	-46°	58.3
22	29	12	-46°	58.7
22	29	13	-46	58.5

eF RobM

22	28	4	-46°	54.0
22	28	1	-46°	54.2
22	28	2	-46	54.1

eeF eS

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907

	-4.3	3.2	9879	22 28 32 −4
	−26.1	5.3	9881	22 30 38 −4
	−17.2		22 27 1.0 22 29 6.5	−25
	−10 4.4		−47 4.0 −47 6.3	−151
			+1.31 +7.7	
29	+8.4	(15.7)	9881	22 30 38
	+11.4	(4.4)	9880	22 30 21
	+33.6		22 ~~27 1.0~~ 29 6.5 6.3 22 28 50.0	+49
	+45.6		−47 ~~6.8~~ −47 17.3	+67
			+1.31 +7.7	
885	+1.8	(16.4)	"	
	+4.8	(5.3)	"	
	+7.2			+11
	+19.2			+28
890	+2.7	(11.7)	"	
	+5.4	(0.5)	"	
	+10.8			+16
	+21.6			+32
889	+2.1	(5.2)	"	
	+ +5.0	(−6.0)		+12
	+8.4			+30
	+20.0	✓		

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-46° ~~-47°~~ 56.3	22	28	7	-46° 53.1	eeFeS
-46° ~~-47°~~ 58.6	22	28	7	-46° 53.3	
1.46	22	28	7	-46 53.2	
-46 58.6	22	~~31~~ ~~29~~	~~27~~ ~~49~~	-46° 53.9 ~~48.9~~	eFeS RR
-47° 9.6	22	31	~~25~~ 4	-46° 54.2	
1.47	22	31	28	-46 54.0	
	22	30	~~49~~	-46° 53.2 ~~42.2~~ 53.3 ~~4.3~~	eFeS bM
	22	30	49		
	22	30	49	-46° 53.2	
	22	30	54	-46 57.9 ~~46.9~~	eFeS bM
	22	30	53	58.1	
	22	30	54	-46 58.0	
	22	30	50	-47° 4.4	eFeS psumbM
	22	30	51	4.6	
	22	30	50	-47° 4.5	

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887	+3.3	4.8	9881	22 30 38
	+6.0	-6.4	9880	22 30 21
	+13.2		29 6.5	
	+24.0		22 ~~27~~ 1.0 (6.3) 22 28 50.0	+19
			-47 ~~7.8~~ . -47 17.3	+35
			+1.31 +7.7	
888	+2.6	3.5	"	
	+6.3	-7.8	"	
	+10.4			+15
	+21.2			+31
120	+6.6	+2.3	"	
	+9.4	-13.4	"	
	+26.4			+39
	+37.6			+55
750	+5.7 } 2	-5.1	"	
	+8.1 }	-16.1	"	
	+22.8			+34
	+32.4			+48
121	+4.5	-11.4	"	
	+7.2	-22.4	"	
	+18.0			+26
	+28.8	✓		+42

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-46° 58.6	22	30 57	-47°	48 ee Fee S
-47° 9.6	22	30 56		5.0
1.47	22	30 56	-47°	4.9
	22	30 53	-47	6.1 eF vS psvmbM
	22	30 52		6.4
	22	30 52	-47°	6.2
	22	31 17	-47°	11.9 vF .3'by.2' @ 40° psvmbM
	22	31 16		12.0
	22	31 16	-47°	12.0
	22	31 12	-47°	14.7 eeF vS .2'd
	22	31 9		14.7
	22	31 10	-47°	14.7
	22	31 4	-47°	21.0 eeF vS 16M
	22	31 3		21.0
	22	31 4	-47°	21.0

✓

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δ91	+10.2	7.9	·9883	22 32 31
	7.7	3.9	9880	22 30 21
	+40.8	4°	22 30 33.3 22 28 50.0	−60
	+30.8		−47 21.2 −47 17.3	45
			+1.30 +7.7	
722	2.1	14.9	"	
	19.7	10.3	"	
	8.4	4.6		12
	78.8			116
δ92	5.8	2.0	"	
	23.4	−1.7	"	
	23.2			34
	93.6			137
δ93	5.9	1.7	"	
	23.8	−2.9	"	
	23.6			35
	95.2			140
δ94	0.4	−5.3	"	
	18.9	−8.8	"	
	1.6			2
	75.6			111

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-47°	13.5	22	31	3	-47° 5.6	eeF eeS
-47°	9.6	22	31	6	-47° 5.7	
1.47		22	31	4	-47° 5.6	
		22	32	15	-46° 58.6	eF eS 6M
		22	32	17	-46° 59.3	
		22	32	16	-46° 59.0	
		22	32	37	-47° 11.5	eeF eeS 16M
		22	32	38	-47° 11.3	
		22	32	38	-47° 11.4	
		22	32	38	-47° 11.8	eeF eS 16M
		22	32	41	-47° 12.5	
		22	32	40	-47° 12.2	
		22	32	5	-47° 18.8	eeF eeS
		22	32	11	-47° 18.4	
		22	32	8	-47° 18.6	

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122	14.2 31.8 56.8 127.2	−7.2 −11.1	9883 9880 22 30 33.3 22 28 50.0 −47 21.2 −47 17.3 +1.31 +7.7	22 32 3 22 30 21 83 186
889	−12.2 13.0 −48.8 52.0	12.3 −22.6	9880 9886 22 28 50.0 22 31 13.8 −47 17.3 −47 52.3 +1.31 +7.7	22 30 21 23 32 45
903	9.8 −2.3 37.2 −9.2	−0.4 −4.0 −6.3	9886 9889 22 31 13.8 22 32 25.8 −47 52.3 −47 46.6 +1.31 +7.7	22 32 45 22 33 56 58 −14
902	3.0 −8.7 12.0 −34.8	−3.5 −0.4 −10.0 −9.5	"	17 −52
904	24.2 12.2 96.8 48.8	7.2 7.4 +1.3 7 1.6	"	144 73

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-47°	13.5	22	33	16	-47° 20.7	eF eS 6M
-47°	9.6	22	33	27	-47° 20.7	
1.47		22	33	26	-47° 20.7	

-47°	9.6				- 57.3	eF R eS 1b M
-47°	~~44.6~~				17.2	
1.49						

-47°	44.6	22	33	43	-47° 45.0	eF eS 6m
-47°	38.9	22	33	42	45.2	
1.49		22	33	42	-47 45.1	

22	33	2	-47°	48.1	eF eS
22	33	4	-47°	48.4	
22	33	3	-47°	48.2	

22	35	9	-47°	37.2	eeF eeS
22	35	9		37.3	
22	35	9	-47°	37.2	

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123	14.4	−5.3	9888	22 33 37
	7.5	−17.8	9892	22 34 29
	57.6		22 32 19.3 22 33 0.8	85
	30.0		−47 20.0 −47 7.2	44
			+1.28 +7.9	
897	3.3	2.9	"	
	−3.8	−10.4	"	
	13.2			19
	−15.2			−22
124	17.3	−11.8	9892	22 34 29
	−21.9	8.9	9897	22 38 18
	69.2		22 33 0.8 22 36 49.8	102
	−87.6		−47 7.2 −47 26.3	−129
			+1.28 +7.9	
125	28.9	−10.3	"	
	−11.1	9.0	"	
	115.6			170
	−44.4			−65
226	−3.4	19.4	9910	22 44 9
	−5.7	−6.8	9911	22 44 26
	−13.6		22 42 39.8 22 42 56.8	−20
	−22.8		−47 57.3 −47 31.0	−34
			+1.29 +7.9	

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	-47°	12.1	22	35	2	-47° 17.4	vF .1d RbM
	-46	59.3	22	35	13	-47° 18.1	
		1.47	22	35	7	-47° 17.2	
			22	33	56	-47° 9.2	eeFeeS
			22	34	7	-47° 9.7	
			22	34	2	-47° 9.4	
	-46°	59.3	22	36	11	-47° 11.1	vF .2d vmbM
	-47°	18.4	22	36	9	-47° 9.5	
		1.47	22	36	10	-47° 10.3	
			22	37	19	-47° 9.6	F .2d psumbM *?
			22	37	13	-47° 9.4	
			22	37	16	-47° 9.5	
9	-47°	49.4	22	43	49	-47° 30.0	eF .1'x.2' 1E @ 35°
.6	-47°	23.1	22	43	52	-47° 29.9	
		1.48	22	43	50	-47° 30.0	

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126	30.6	4.2	9892	22 34 29
	−11.4	1.8	9898	22 38 36
	123.2		22 38 0.8 22 37 7.8	179
	−45.6		−47 7.2 −47 5.5	−67
			+1.28 +7.8	
127	26.1	5.7	"	
	−16.2	3.5	"	
	104.4		"	151
	−64.8			−95
878	20.5	2.9	"	
	−21.6	0.6	"	
	8 2.0			119
	−86.4			−126
713	9.4	5.5	"	
	−33.0	3.3	"	
	37.6			55
	−132.0			−192
227	−2.0	18.7	9910	22 44 9
	−4.6	−7.6	9911	22 44 26
	−8.0		22 42 39.8 22 42 56.8	−11
	√184	V	−47 57.3 −47 31.0	−27
			+1.29 +7.9	

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9	-46°	59.3	22	37 28	-46° 55.1	vF .1 ó vsvm 6M
	-46°	57.7	22	37 29	55.9	
	1.46		22	37 28	-46° 55.5	
			22	37 0	-46 53.6	eF .1 x .2' at 40° 6M
			22	37 1	54.2	
			22	37 0	-46° 53.9	
			22	36 28	-46 56.4	eF .1 6y .2' at 25° vm 6M
			22	36 30	57.1	spin
			22	36 29	-46° 56.7	
			22	35 24	-46 53.8	eF .1 d 6M
			22	35 24	54.4	
			22	35 24	-46° 54.1	
9	-47°	49.4	22	43 58	-47° 30.7	eF .2 d 6M
06	-47°	23.1	22	43 59	30.7	
	1.48		22	43 58	-47° 30.7	

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710	28.8 -17.0 115.2 -68.0	~~-8.7~~ -9.3 -9.9	9898 9907 22 37 7.8 22 41 34.8 -47 5.8 -47 5.4 +1.28 +7.8	22 38 36 22 43 .3 170 -99
711	20.8 -24.9 83.2 -99.6	-8.4 -8.8	" "	122 -146
708	26.2 -19.7 104.8 -78.8	-3.8 -4.5	" "	154 -116
707	26.2 ~~-15.6~~ -19.7 104.8 -78.8	-0.2 -0.7	" "	154 -116
706	25.2 -20.5 100.8 -82.0	0.4 -0.2	" "	148 -120

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-46° 57.7	22	41	26	-47°	7.0	vF vS vmbM
-46 57.6	22	41	24	-47°	7.5	
1.47	22	41	25	-47°	7.2	
	22	40	38	-47°	6.1	eF eS 1E at 30°
	22	40	37		6.4	
	22	40	38	-47°	6.2	
	22	41	10	-47°	1.5	eF eS 16M
	22	41	7		2.1	
	22	41	8	-47°	1.8	
	22	41	10	-46°	57.9	eeF eeS bM
	22	41	7		58.3	
	22	41	8	-46°	58.1	
	22	41	4	-46°	57.3	vF. 1cl R vmbM
	22	41	3		57.8	
	22	41	4	-46°	57.6	

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703	25.8 −19.9 103.2 −79.6	0.7 0.2	9898 9907 22 37 7.8 22 41 34.8 −47 5.5 −47 5.4 +1.28 +7.8	22 38 36 22 43 3 151 −117
709	29.9 −16.1 119.6 −64.4	−4.3 −4.8	" "	170 −95
173	0.1 −16.7 0.4 −66.8	5.3 0.1	9907 9912 22 41 34.8 22 43 14.4 −47 5.4 −47 0.5 +1.28 +7.8	22 43 3 22 44 42 .5 −98
174	1.4 −15.4 5.6 −61.6	4.7 −0.3	" "	8 −91
172	2.5 −14.4 10.0 −57.6	5.4 0.2	" "	15 −85

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-46° 57.7	22	41	7	-46	57.0	vF iF g/ps vm bM
-46° 57.6	22	41	6		57.4	
1.47	22	41	6	-46°	57.2	
	22	41	26	-46°	2.0	eeF e S IE @ 45°
	22	41	28		2.4	
	22	41	27	-46°	2.2	
-46° 57.6	22	43	8	-46°	52.3	eF ,i x.2' IE @ 0°
-46° 52.7	22	43	4		52.6	
1.47	22	43	6	-46°	52.4	
	22	43	11	-46°	52.9	eeF ees
	22	43	11		53.0	
	22	43	11	-46°	53.0	
	22	43	18	-46°	52.2	eF .2d bM iF
	22	43	17		52.5	
	22	43	18	-46°	52.3	

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175	4.8 −12.0 19.2 −48.0	3.8 −1.3	9907 9912 22 41 34.8 22 43 14.14 −47 5.4 −47 0.5 +1.28 +7.8	22 43 3 22 44 42 28 −70
176	5.3 −11.6 21.2 −46.4	1.3 −4.0	"	31 −68
178	7.7 −8.4 30.8 −33.6	−2.3 −7.0	"	45 −49
179	15.4 −1.6 61.6 −6.4	−2.1 −7.4	"	91 −9
177	7.8 −9.0 31.2 −36.0	−6.2 −11.4	"	46 −52

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	−46° 57.6	22	43 31	−46	54.8	vF. 2d 6M
32	−46° 52.7	22	43 32		54.0	
	1.47	22	43 32	−46	54.4	
		22	43 34	−46°	56.3	eF. 2d 16M
		22	43 34		56.7	
		22	43 34	−46°	56.5	
		22	43 48	−46°	59.9	eeFeS
		22	43 53		59.7	
		22	43 50	−46°	59.8	
		22	44 34	−46°	59.7	eF eS c6M
		22	44 33	−47	0.1	
		22	44 34	−46°	59.9	
		22	43 49	−47°	3.8	eF. 2d c6M
		22	43 50	−47°	4.1	
		22	43 50	−47°	4.0	

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185	11.5	-6.8	9907	22 43 3
	-5.5	-11.6	9912	22 44 42
	46.0		22 41 34.8 22 43 14.4	67
	- 22.0		-47 5.4 -47 0.5	- 32
			+1.28 +7.8	
182	2.0	12.3	9913	22 44 49
	3.5	-2.5	9912	22 44 42
	8.0		2243 21.3 22 43 14.4	11
	14.0		-47 15.0 -47 0.5	20
			+1.28 +7.8	
181	3.2	6.8 ~~8.1~~	"	
	4.6	- 7.8	"	
	12.8			19
	18.4			27
180	2.1	~~#6.7~~ ~~8.0~~ -8.0	"	
	3.6	~~7.7~~	"	
	8.4			12
	14.4			21
183	5.0	~~7.7~~ #7.0	"	
	6.2	~~7.0~~ ~~8.3~~ #7.7	"	
	20.0			29
	24.8	✓		36

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	−46° 37.2	22	44 10	−47°	4.0	eeF eS bs
	−46° 52.7	22	44 4		4.3	
	1.47	22	44 7	−47°	4.2	
	−47° 7.2	22	45 0	−46°	54.7	ecF eS
	−46° 62.7	22	45 2		55.2	
	+1.47	22	45 1	−46°	55.0	
		22	45 8	−47°	0.4	ecF eS bM
		22	45 9	−47°	0.3	
		22	45 8	−47°	0.4	
		22	45 1	−46°	0.5 / 3.9	eF .2d vmbM almost bn
		22	45 3	−47°	0.7	
		22	45 2	−47°	0.6	
		22	45 18	−47°	0.2	eF .1d vmbM
		22	45 18		0.4	
		22	45 18	−47°	0.3	

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65

184	4.3	~~+3.2~~ ~~+1.6~~ ~~-1.4~~ ~~+1.7~~	9913	22 44 49
	5.8		9912	22 44 42
	17.2		22 15 21.3 22 43 14.4	25
	23.2		-47 5.4 -47 0.5	34
			+1.28 +7.8	
187	-41.2	+13.8 ~~+1.2~~	"	
	-2.5	~~-2.4~~ -0.8	"	
	-16.8			-25
	-10.0			-15
188 Defect				
228	18.3	-0.8	9910	22 44 9
			22 42 39.8	
	73.2		-47 57.3	108
			+1.29 +7.9	
802	19.4	2.3	9911	22 44 26
	3.3	-2.6	9914	22 46 1
	776		22 42 56.8 22 44 31.8	115
	13.2		-47 31.0 -47 26.2	20
			+1.29 7.9	
803	17.2	1.3	"	
	0.7	-3.7	"	
	68.8			7022
	2.8			4

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1923phae..proj..2305S

-47°	7.2	22	45 14	-46°	~~20.4~~ 54.0	eF vS vmbM
-47	52.7	22	45 16	-46	54.1	
1.47		22	45 15	-46°	54.0	
		22	44 24	-46°	53.4	eF vS gpsvmbM
		22	44 27	-46°	53.5	
		22	44 26	-46	53.4	
-47°	49.4	22	45 57	-47	50.2	vF S 3 by 1 @ 5°0° abM
		22	45 57			spin.
1.49		22	45 57			
-47°	23.1	22	46 21	-47	20.8	eF 3d R vlbM
-47°	18.3	22	46 21		20.9	
1.48		22	46 21	-47°	20.8	
		22	46 8	-47°	21.8	eF 2d R vlbM
		22	46 5		22.0	
		22	46 6	-47°	21.9	

Note:-
Only one good Comparison *.
Readings Very accurate.

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70

195	14.4 - 12.9 57.6 - 51.6	14.8 0.7	9913 9916 22 15 21.3 22 46 0.8 -47 5.4 -47 1.8 +1.28 +7.8	22 44 49 22 47 29 85 - 76
813	27.3 + 0.2 109.2 0.8	10.4 - 3.0	" "	158 1
815	22.3 - 4.7 89.2 - 18.8	5.7 - 2.8	" "	131 - 28
194	14.6 - 12.4 58.4 - 50.0	6.3 - 6.0	" "	86 - 73
193	14.7 - 12.3 58.8 - 49.2	3.5 - 9.9	" "	86 - 72

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1923pnate.proj.23055

207
1F0
27

-47°	7.1	22	46	14	-46°	52.4	cF.2d g bM
-46°	54.0	22	46	15	-46°	53.3	
	1.47	22	46	14	-46°	52.8	
		22	47	27	-46°	56.8	ee See F v 16M
		22	47	30	-46°	57.0	
		22	47	38	-46°	56.9	
		22	47	0	-47°	1.5	ee F eS RR
		22	47	1		1.8	
		22	47	0	-47	1.6	
		22	46	15	-47°	0.9	ee F ee S
		22	46	16	-47°	0.0	
		22	46	16	-47°	0.4	
		22	46	15	-47°	3.7	e F e S ab M
		22	46	15	-47°	3.9	
		22	46	15	-47°	3.8	

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7s

192	9.6 -17.5 38.4 -70.0	2.0 -11.4	9913 9916 22 15 21.3 22 46 0.8 -47 5.4 -47 1.8 +1.28 +7.8	22 44 49 22 47 29. 56 -900
799	11.2 -16.3 44.8 -65.2	0.4 -13.0	"	66 -96
801	12.8 -13.1 51.2 -52.4	0.1 -13.6	"	75 -77
800	11.6 -15.4 46.4 -61.6	-0.1 -13.7	"	68 -91
807	20.6 -6.4 8-2H -25.6	-5.2 +18.8	"	121 -38

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-47° 7.2	22	45 45	-47°	5.2	eF .2d gpsvmbM
-46° 54.0	22	45 49	-47°	5.4	
1.47	22	45 47	-47°	5.3	
	22	45 53	-47°	6.8	eFeS bM/E@ 10°
	22	45 53	-47°	7.0	
	22	45 54	-47°	6.9	
	22	46 4	-47°	7.1	eFeeS
	22	46 12	-47°	7.5	
	22	46 8	-47°	7.3	
	22	45 57	-47°	7.3	eFeeS
	22	45 58	-47°	7.7	
	22	45 58	-47°	7.5	
	22	46 50	-47°	12.4	eeFeeS bM
	22	46 51	-47°	12.8	
	22	46 50	-47°	12.6	

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80

F04	11.7 - 15.4 46.8 -61.6	1.6 -11.8	9913 9916 22-15 21.3 22 46 0.8 -47 5.4 -47 1.8 +1.28 +7.8	22 44 49 22 47 29 69 - 91
F05	13.2 - 13.8 52.8 -55.2	-5.6 -19.1	"	78 -81
F06	18.7 - 8.3 74.8 -33.2	-6.7 -20.1	"	110 - 49
224	~~-7.2~~ ~~9.0~~ ~~7.0~~ 11.3 -28.8 45.2	~~+15.5~~ ~~8.9~~ ~~+14.1~~ -15.8	~~9911~~ ~~9914~~ ~~9914~~ ~~9910~~ 22 44 31.8 22 42 39.8 -47 26.2 -47 57.3 +1.29 +7.9	22 46 1 22 44 9 -42 66
225	~~-3.3~~ ~~12.5~~ ~~3.6~~ 15.0 -13.2 +60.0	+18.6 ~~+3.1~~ ~~17.9~~ -12.8	"	-22 88

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-47°	7.2	22	45 58	-47°	5.6	cFeS6M
-46°	54.0	22	45 58	-47°	5.8	
1.47		22	45 58	-47	5.7	
		22	46 7	-47°	12.8	eFeS6M
		22	46 8	-47°	13.1	
		22	46 8	-47°	13.0	
		22	46 39	-47°	13.9	eeFeeS
		22	46 40	-47°	14.1	
		22	46 40	-47	14.0	
-47°	49.4	22	45 19	-47°	33.9	eeFeeS16M
-47°	18.3	22	45 15	-47°	34.1	
1.48		22	45 17	-47°	34.0	
		22	45 39	-47°	30.8	eeFeeS
		22	45 37	-47°	31.1	
		22	45 38	-47°	31.0	

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.85

18	~~17.1~~ ~~−12.2~~	11.3	.9920	22 49 23
	+2.4	− 7.8	9916	22 47 29
	− 68.4		22 47 54.3 22 46 0.8	− 101
	9.6		−47 20.6 −47 1.8	14
			+1.29 +7.9	
19	~~19.2~~ ~~−13.7~~	10.8	"	
	+0.3	−8.0	"	
	− 76.8			−113
	1.2			2
20	~~16.4~~ ~~−11.5~~	8.6	"	
	+3.0	−10.2	"	− 96
	−65.6			17
	12.0			
f10	−41.0	12.3	"	
	15.6	− 6.7	"	
	−16.0			−23
	+ 62.4			92
f08	29.0	− 12.6	9914	22 46 1
	− 5.6	− 18.4	9920	22 49 23
	116.0		22 44 31.8 22 47 54.3	141
	−22.4		−47 26.2 −47 20.6	− 33
	✓	✓	+1.39 +7.9	

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-47°	12.7	22	47	42	-47°	1.4	eF vS
-46°	54.0	22	47	43	-47°	1.8	
1.47		22	47	42	-47°	1.6	
		22	47	30	-47°	1.9	eF vS IE@ 40° spin
		22	47	31	-47°	2.0	
		22	47	30	-47°	2.0	
		22	47	47	-47°	4.1	eF vS almost
		22	47	46	-47°	4.2	
		22	47	46	-47°	4.2	
		22	49	0	-47°	0.4	eF vS IE@ 45°
		22	49	1	-47°	0.7	
		22	49	0	-47°	0.6	
-47°	18.3	22	48	52	-47°	30.9	vF .4'x.2 @ 135° bs
-47°	12.7	22	48	50	-47°	31.1	
1.48		22	48	51	-47°	31.0	

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90

815	12.6	18.0	9925	22 51 5
	16.2	-6.0	9926	22 51 21
	50.4		22 49 36.5 22 49 53.2	75
	+64.8		-47 32.9 -47° 7.0	96
			+1.28 +7.9	
816	5.0	9.8	"	
	8.5	-14.3	"	
	20.0			29
	34.0			50
809	-6.0	11.7	"	
	-2.6	-12.6	"	
	-24.0			-35
	-10.4			-15
817	~~36.8~~ ~~29.6~~	10.6	9923	22 49 58
	-5.4 147.2 ~~+8.4~~	-9.0	9931	22 54 17 218 ~~+74~~
	-21.6		22 48 29.8 22 52 48.7	-32
			-47 29.8 -47 9.6	
			+1.28 +7.9	
3	8.3	19.0	9933	22 54 58
	-6.0	+3.3	9936	22 56 21
	33.2		22 53 31.2 22 54 53.7	49
	-24.0		-47 38.0 -47 22.4	-35
	✓	✓	+1.27 +8.0	

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-47°25.0	22	52 41	-47°	17.0	vF .3′ cbM
-46°59.1	22	52 36	-47°	15.0	
1.48	22	52 38	-47°	16.0	
	22	52 55	-47°	15.2	vF .1′x.2′ @ 50° bS
	22	52 50	-47	13.4	
	22	52 52	-47	14.3	
	22	50 50	-47°	13.3	eF vS
	22	50 46	-47°	11.7	
	22	50 48	-47°	12.5	
-47° 21.9	22	53 36	-47°	11.3	vF .3′x.2′ @ 100° bM
-47° 17	22	53 45	-47	9.7	spir.?
1.46	22	53 40	-47	10.5	
-47° 30.0	22	55 47	-47°	11.0	F 1.2′ x.3′ @ 100° mbM
-47° 14.4	22	55 46	-47°	11.1	def. spir.
1.48	22	55 46	-47°	11.0	

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95

δ18	−5.1	8.1	.9938	22 57 40
	8.5	−0.2	9936	22 56 21
	−20.4		22 56 18.2 22 54 53.7	− 30
	84 0		−47 30.7 −47 22.4	50
			+1.27 +8.0	
17*				
16	−6.0	5.2	"	
	7.4	−3.1	"	
	−24.0			− 35
	29.6			44
δ19*				
935	4.9	11.6	10416	22 25 16
	7.4	− 1.0	10414	22 25 31
	19.6		22 24 14.6 22 24 0.2	28
	29.6		−46 37.2 −46 24.7	43
			+1.31 +7.6	
10δ	− 3.0	9.6	"	
	−0.4	− 2.8	"	
	−12.0			−17
	−1.6			− 2
934	−0.3	8.0	"	
	2.2	−4.7	"	
	−1.2			− 1
	8.8 ✓	✓		13

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-47° 22.7	22 57 10	-47° 14.6	eFvSv16M	
-47° 14.4	22 57 11	-47° 14.6		
1.48	22 57 10	-47° 14.6		
"	22 57 5	-47° 17.5	F S 6M olm *	
"	22 57 5	-47° 17.5		
	22 57 5	-47° 17.5		
-46° 29.6	22 26 14	-46° 18.0	eeF eeS RR	
-46° 17.1	22 26 14	-46° 18.1		
1.45	22 26 14	-46° 18.0		
	22 25 29	-46° 20.0	eF eS	
	22 25 29	-46° 19.9		
	22 25 29	-46° 20.0		
	22 25 45	-46° 21.6	eeS eeF	
	22 25 44	-46° 21.8		
	22 25 44	-46° 21.7		

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100°

933	2.8	5.1	10416	22 25 46
	3.4	-7.5	10414	22 25 31
	11.2		22 24 14.6 22 24 0.2	16
	21.6		-46 37.2 -46 24.7	31
			+1.31 +7.6	
913	29.4	16.8	10416	22 25 46
	- 2.3	5.1	10419	22 28 49
	117.6		22 24 14.6 22 27 18.0	169
	-9.2		-46 37.2 -46 25.8	- 13.
			+1.31 +7.6	
932	28.3	14.3	"	
	- 3.6	2.4	"	
	113.2			163.0
	-14.1			- 21.
766	30.8	3.4	"	
	- 0.7	- 8.3	"	
	123.2			178
	-2.8			- 4
767	24.4	3.8	"	
	- 7.2	- 8.1	"	
	97.6			141
	- 28.8			-42

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6	-46° 29.6	22	26	2	-46° 24.5	eeFees
	-46° 17.1	22	26	2	-46° 24.6	
	1.45	22	26	2	-46° 24.6	
16	-46° 29.6	22	28	35	-46° 12.8	eeFees
9	-46° 18.2	22	28	36	-46° 13.1	
	1.45	22	28	36	-46° 13.0	
		22	28	29	-46° 15.3	eeFees
		22	28	28	-46° 15.8	
		22	28	28	-46° 15.6	
		22	28	44	-46° 26.2	eFes R
		22	28	45	-46° 26.5	
		22	28	44	-46° 26.4	
		22	28	7	-46° 25.8	eFes IF
		22	28	7	-46° 26.3	
		22	28	7	-46° 26.0	

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5/

915	19.8	−1.0	10416	22 25 46
	−11.7	−13.0	10419	22 28 49
	79.2		22 24 14.6 22 27 18.0	115
	−46.8		−46 37.2 −46 25.8	− 68
			+1.31 +7.6	
908	17.2	−5.4	"	
	−14.4	−17.5	"	
	68.8			100
	−57.6			− 84
89	5.5	− 1.0	10418	22 25 52
	−17.4	− 9.2	10309	22 28 2
	22,0		22 24 21.1 22 26 30.9	32
	−69.6		−46 2.5 −45 54.7	− 100
			+1.31 +7.6 +1.31 +7.6	
92	4.6	− 1.1	"	
	− 18.6	−9.0	"	
	18 4			27
	−74.4			− 107
109	2.2	− 0.5	"	
	− 20.4	−8.6	"	
	8.8			13
	− 81,6			− 118

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46	−46°	29.6	22	27 41	−46° 30.6	eeF ees
49	−46°	18.2	22	27 41	−46° 31.2	
	1.45		22	27 41	−46° 30.9	
			22	27 26	−46° 35.0	eeFees
			22	27 25	−46° 35.7	
			22	27 26	−46° 35.3	
2	−45°	54.9	22	26 24	−45° 55.9	eeF ees
2	−45°	47.1	22	26 22	−45° 56.3	
	1.46		22	26 23	−45° 56.2	Diffinet to make good measurements Nebulae very faint. This applies to the following six nebulae. VA.
	1.44					
			22	26 21	−45° 56.0	eeF ees
			22	26 15	−45° 56.1	
			22	26 18	−45° 56.0	
			22	26 5	−45° 55.4	eF .2 or bN
			22	26 4	−45° 55.7	
			22	26 4	−45° 55.6	

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10

735	6.4	−4.7	10418	22 25 52
	−16.2	−12.6	10309	22 28 2
	25.6		22 24 21.1 {22 26 30.9	37
	−64.8		−46 2.5 {−45 54.7	−93
			+1.31 +7.6 {+1.31 +7.6	
930	11.6	− 3.0	" "	
	−10.6	− 11.4	"	
	46.4			68
	−42.4			−61
931	11.4	− 3.7	"	
	−11.0	− 12.3	"	
	45.6			67
	−44.0			−63
11H	13.4	1.3	"	
	−9.3	−7.0	"	
	53.6			78
	−37.2			−54
733	27.3	2.6	"	
	4.7	− 5.6	"	
	109.2			159
	16.8			27

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-45°	54.9	22	26	31	-46°	0.6	eeFeeS
-45°	47.1	22	26	35	-46°	9.7	
1,46		22	26	33	-46°	0.2	
1.44							

22	27	0	-45°	57.9	eeF ees
22	27	1	-45°	58.5	
22	27	0	-45°	58.2	

22	27	9	-45°	58.6	eeFees
22	27	9	-45°	59.4	
22	27	9	-45°	59.0	

22	27	10	-45°	53.6	eeFeeS 1F
22	27	8	-45°	54.1	
22	27	9	-45°	53.8	

22	28	31	-45°	52.3	eF eS 9bM
22	28	29	-45°	52.7	
22	28	30	-45°	52.5	

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15

117	−12.5	11.3	9879	22 28 32
	16.2	−16.4	10416	22 25 46
	−50.0		22 27 1.0 22 24 14.6	−73
	64.8		−47 4.0 −46 37.2	95
			+1.31 +7.6	
116	5.4	16.4	10419	22 28 49
	36.7	−6.7	10418	22 25 52
	21.6		22 27 18.0 22 24 21.1	31
	146.8		−46 25.8 −46 2.5	213
			+1.31 +7.6	
913	−3.7	5.3	"	
	27.5	−17.9	"	
	−14.8			−21
	110.0			150
932	−3.3	2.6	"	
	27.7	−20.6	"	
	−13.2			−19
	110.8			160
714	13.5	10.6	9890	22 34 5 −4
	4.5	−3.8	10430	22 35 3 −4
	54.0		22 32 33.8 22 33 31.5	78
	18.0		−47 5.4 −46 51.1	26
		V	+1.31 +7.7	

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1923phae.proj.23055

-46°	56.4	22	27 19	-46°	45.1	cF vS bS /Eat 100°
-46°	29.6	22	27 21	-46°	46.0	
1.46		22	27 20	-46°	45.6	
~~1.46~~						
-46°	18.2	22	29 20	-46°	1.8	vF, 2d RR 9/ps vm6M
-45°	54.9	22	29 25	-46°	1.6	a/m *
1.45		22	29 22	-46°	1.7	
1.46						
		22	28 28	-46°	12.9	eeF eeS
		22	28 22	-46°	12.8	
		22	28 25	-46°	12.8	
		22	28 30	-46°	15.6	ceF eeS
		22	28 32	-46°	15.5	
		22	28 31	-46°	15.6	
-46°	57.7	22	35 23	-46°	47.1	eeF eS ; F
-46°	43.4	22	35 29	-46°	47.2	
1.46		22	35 26	-46°	47.2	

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20°

766	−11.8 8.8 −47.2 33.2	24.4 −5.6	10421 ~~10425~~ 10419 22 29 ~~57.2~~ 13.5 22 27 18.6 −46° ~~56.5~~ 59.4 −46 25.8 +1.31 +7.6	22 30 44 22 28 49 −69 49
773	−11.7 7.6 −46.8 30.4	21.2 −8.6	″ ″	−68 44
771	−12.0 8.4 −48.0 33.6	20.8 −8.9	″ ″	−71 49
774	−10.8 9.3 −43.2 37.2	20.1 −9.9	″ ″	−63 54
911	−12.4 8.0 −49.6 32.0 V	18.2 −12.3	″ ″	−72 46

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44	-46°	47.9	22	29 35	-46° 23.5	eeFeeS
49	-46°	18.2	22	29 38	-46° 23.8	
	1.46		22	29 36	-46° 23.6	
			22	29 29	-46° 26.7	eeFeeS
			22	29 33	-46° 26.8	
			22	29 31	-46° 26.8	
			22	29 33	-46° 27.1	eeFeeS
			22	29 38	-46° 27.1	
			22	29 36	-46° 27.1	
			22	29 41	-46° 27.8	eeFeeS
			22	29 43	-46° 28.1	
			22	29 42	-46° 28.0	
			22	29 32	-46° 29.7	eFeS 6M
			22	29 35	-46° 30.5	
			22	29 34	-46° 30.1	

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1923phae.proj.23055

25

The comp x has been changed do not record this. All is OK.

769	−10.7	12.1	.10425	22 30 44
	9.6	−17.8	10419	22 28 49
	−42.8		22 29 57.2 22 27 18.0	−62
	+38.4		−46 56.5 −46 25.8	56
			+1.31 +7.6	
770	−12.7	12.0	"	
	9.7	−18.0	"	
	−50.8			−74
	+30.8			45
909	−10.8	10.8	"	
	10.5	−19.4	"	
	−43.2			−63
	42.0			61
775	−2.4	13.8	"	
	18.8	−15.5	"	
	−9.6			−14
	75.2			110
25	−1.4	10.7	"	
	19.6	−16.2	"	
	−5.6			−8
	78.4			114

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	−46°	47.9	22	29	42	−46° 35.8	eeFees
	−46°	18.2	22	29	45	−46° 36.0	
	1.46		22	29	44	−46° 35.9	
			22	29	30	−46° 35.9	eeFees
			22	29	34	−46° 36.2	
			22	29	32	−46° 36.0	
			22	29	47	−46° 37.1	eeFees
			22	29	50	−46° 37.6	
			22	29	48	−46° 37.4	
			22	30	30	−46° 34.1	ees eeF
			22	30	39	−46° 33.7	
			22	30	34	−46° 33.9	
			22	30	36	−46° 37.2	eF .2 x .3 @ 50° 16M
			22	30	38	−46° 36.4	spin.
			22	30	37	−46° 36.8	

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52

30

30	16.8 −13.7 ~~−0.4~~ 67.2 ~~−1.6~~ −54.8	12.5 3.8	9f79 10425 22 27 1.0 22 29 57.2 −47 4.0 −46 56.5 +1.31 +7.6	22 28 32 22 31 28 98 ~~−2~~ −80
31	17.0 −13.4 ~~0.1~~ 68.0 ~~−0.4~~ −53.6	11.4 2.7	" "	99 −1 −78
32	15.8 −14.6 ~~−1.3~~ 63.2 ~~−5.2~~ −58.4	11.3 2.7	" "	92 −85
33	14.7 −15.7 ~~−2.4~~ 58.8 ~~−10.0~~ −62.8	10.1 1.4	" "	86 ~~−5~~ −92
34	13.7 16.7 ~~−3.4~~ 54.8 ~~−11.0~~ −16.8	10.8 2.0	" "	80 ~~−20~~ −98

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-46°56.4	22	30	10	-46°	43.9	eF	eS	bM
-46° 47.9	22	30	8	-46°	44.1			
1.46	22	30	9	-46°	44.0			
	22	30	1	-46°	45.0	eeF	eS	
	22	30	10	-46°	45.2			
	22	30	5	-46°	45.1			
	22	30	4	-46°	45.1	eF	eS	
	22	30	3	-46°	45.2			
	22	30	4	-46°	45.2			
	22	29	58	-46°	46.3	eF	eS	
	22	29	56	-46°	46.5			
	22	29	57	-46°	46.4			
	22	29	52	-46°	45.6	eF	eS	
	22	29	50	-46°	45.9			
	22	29	51	-46°	45.8			

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54

36

910	12.3 ~~44~~ ~~-44~~ -19.2 ~~-5.7~~ 49.2 ~~444~~ ~~-44~~ ~~-23.2~~ -76.8	8.2 -0.15	9879 10425 22 27 1.0 22 29 57.2 -47 4.0 -46 58.5 +1.31 +7.6	22 28 32 22 31 28 72 ~~-64~~ -112
724	1.6 ~~+4.9~~ -22.3 6.4 ~~+9.6~~ -89.2	8.0 -9.0	10425 10427 22 29 57.2 22 32 17.0 -46 56.5 -46 38.9 +1.31 +7.6	22 31 28 22 33 48 ~~87~~ 9 -130
5	-4.0 ~~9.6~~ -27.9 -16 ~~38.4~~ -111.6	10.6 -6.6	" "	-23 -16.3
884	-4.0 ~~9.7~~ -27.9 16 ~~58.8~~ -111.6	8.5 -8.6	" "	-23 -163
726	8.4 ~~24.7~~ -15.5 33.6 ~~46.8~~ -62.0	13.3 -3.8	" "	49 ~~+27~~ ~~-105~~ -90

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-47°	56.4	22	29	44	-46° 48.2	eFcS vmbM almt
-46°	47.9	22	29	36	-46° 48.4	
1.46		22	29	40	-46° 48.3	
-46°	47.9	22	31	37	-46° 39.9	vF.2d vmbM
-46°	31.3	22	31	38	-46° 40.3	
1.46		22	31	38	-46° 40.2	
		22	31	5	-46° 37.3	eeFeeS
		22	31	5	-46° 37.9	
		22	31	5	-46° 37.6	
		22	31	5	-46° 39.4	eFeS bM
		22	31	5	-46° 39.9	
		22	31	5	-46° 39.6	
		22	32	17	-46° 34.6	eFcS .2d bM
		22	32	18	-46° 35.1	
		22	32	18	-46° 34.8	

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49

f83	8.5 ~~21.8~~ −15.6 34.0 ~~47.2~~ −62.4	2.3 −14.6	10425 10427 22 27 57.2 22 32 17.0 −46 56.5 −46 38.9 +1.31 +7.6	22 31 28 22 33 48 49 ~~+27~~ −91
723	2.7 ~~16.0~~ ~~+21.2~~ 10.8 ~~47.0~~ −84.8	−2.1 −19.0	" "	~~93~~ 16 −124
727	1.4 28.3 5.6 113.2	−5.3 ~~−5.6~~ −5.4	10424 10419 22 29 58.0 22 27 18.0 −46 28.6 −46 25.8 +1.31 +7.6	22 31 24 22 28 49 ~~8~~ 164
763	−1.4 25.4 −5.6 101.6	−3.0 ~~−5.1~~ −5.8	" "	−8 148
765	−10.0 17.0 −40.0 68.0	5.5 3.0	" "	−58 99

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V

-46°	47.9	22	32	17	-46° 45.6	eeFeeS
-46°	31.3	22	32	17	-46° 45.9	
1.46		22	32	17	-46° 45.8	
		22	31	44	-46° 50.0	eFeS bM a/m *
		22	31	44	-46° 50.3	v/E@ 15°
		22	31	44	-46° 50.2	
-46°	21.0	22	31	32	-46° 26.3	eF .2'd bM
-46°	18.2	22	31	33	-46° 26.6	
1.45		22	31	32	-46° 26.4	
		22	31	16	-46° 24.0	eF .2'x.1' @ 50°
		22	31	17	-46° 24.0	vIE
		22	31	16	-46° 24.0	
		22	31	22	-46° 15.5	eFeS mr. b *
		22	31	28	-46° 15.2	
		22	31	25	-46° 15.4	

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58

45

732	-12.3 14.7 -49.2 58.8	7.3 4.8	10424 10419 22 29 53.0 22 27 18.0 -46 28.6 -46 25.8 +1.31 +7.6	22 31 24 22 28 49 -72 85
764	13.8 -22.3 -5.2 -89.2	3.8 -12.7	10424 10428 22 29 53.0 22 33 22.5 -46 28.6 -46 12.9 +1.31 +7.6	22 31 24 22 34 54 81 -129
760	13.0 -23.0 52.0 -92.0	5.8 -11.5	" "	75 -133
751	~~22.0~~ 18.2 -14.0 88.0 -56.0	6.1 -10.3	" "	127 -81
758	21.5 -14.7 86.0 -58.8	10.3 -6.0	" "	124 -85

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4	-46°	21.0	22	30	24	-46°	13.7	eF eS cbM nr. b*
9	-46°	18.2	22	30	13	-46°	13.4	
	1.45		22	30	18	-46°	13.6	
4	-46°	21.0	22	32	45	-46°	17.2	ecF eeS
4	-46°	5.3	22	32	45	-46°	18.0	
	1.45		22	32	45	-46°	17.6	
			22	32	39	-46°	15.2	eF eS bM
			22	32	41	-46°	16.8	
			22	32	40	-46°	16.0	
			22	33	31	-46°	14.9	eF eS bM
			22	33	33	-46°	15.3	
			22	33	32	-46°	15.1	
			22	33	28	-46°	10.7	eF eS IE @ 10°
			22	33	29	-46°	11.3	
			22	33	28	-46°	11.0	

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50

759	14.5	11.8 2	10424	22 31 24
	11.8	− ~~+0.7~~ −1.53	10426	22 31 42
	~~5~~8.0		22 29 53.6 22 30 11.2	84
	47.2		−46 28.6 −46 2.1	68
			+1.31 +7.6	
731	10.8	13.8	"	
	8.3	− 12.4	"	
	43.2			63
	33.2			48
766	15.6	14.7	"	
	13.0	− 11.8	"	
	62.4			90
	52.0			75
730	11.7	14.3	"	
	8.3	− 12.6	"	
	46.8			68
	33.2			48
14	18.0	20.2	"	
	15.3	− 6.9	"	
	72.0			104
	61.2			89

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4	-46°	21.0	22	32	48	-46°	9.2	eF, 2'x, 1' IE @ 40° bM
2	-45°	54.5	22	32	50	-46°	9.8	
	1.45		22	32	49	-46°	9.5	
			22	32	27	-46°	7.2	ecF ecS
			22	32	30	-46°	7.9	
			22	32	28	-46°	7.5	
			22	32	54	-46°	6.3	ecFeS
			22	32	57	-46°	6.3	
			22	32	56	-46°	6.3	
			22	32	32	-46°	6.7	ecF eS
			22	32	30	-46°	7.1	
			22	32	31	-46°	6.9	
			22	33	8	-46°	0.8	vF. 2'x.4' @ 50° bM
			22	33	11	-46°	1.1	H spin.
			22	33	10	-46°	1.1	

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55

762	10.2	20.0	10424	22 31 24
	7.7	− 7.0	10426	22 31 42
	40.8		22 29 53.0 2230 11.2	59
	30.8		−46 28.6 −46 2.1	45
			+1.31 +7.6	
729	− 1.4	13.4	"	
	− 4.2	− 13.4	"	
	− 5.6			− 8
	−16.8			− 24
728	− 0.3	13.6	"	
	−3.1	− 13.3	"	
	− 1.2			− 2
	−12.4			− 18
914	− 41.5	28.0	"	
	− 7.0	1.2	"	
	− 18.0			− 26
	− 28.0			− 40
879	13.9	9.1	9890	22 34 4
	4.1	− 5.1	10430	22 35 2
	55.6		22 32 38.8 22 33 31.5	81
	16.4		−47 5.4 −46 51.1	24
			+1.30 +7.7	

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9

4	-46° 21.0	22	32 23	-46°	1.0	eFeS v/E @ 10°
2	-46° 54.5	22	32 27	-46°	1.5	
	1.45	22	32 25	-46°	1.2	
		22	31 16	-46°	7.6	eF vS bM
		22	31 18	-46°	7.9	
		22	31 17	-46°	7.8	
		22	31 22	-46°	7.4	eFeS v/E @ 90°
		22	31 24	-46°	7.8	
		22	31 23	-46°	7.6	
		22	30 58	-45°	53.0	eF eS bM
		22	30 58	-45°	53.3	
		22	30 58	-45°	53.2	
4	-46° 57.7	22	35 25	-46°	48.6	eeFeS R
2	-46° 43.4	22	35 26	-46°	48.5	
	145	22	35 26	-46°	48.6	

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60

716	18.3 -3.8 73.2 -15.2	-2.0 -1.2	10430 10432 22 33 31.5 22 35 40.1 -46 51.1 -46 52.1 +1.30 7.7	22 35 2 22 37 10 107 -22
715	8.4 -13.8 33.6 -55.2	2.7 3.5	" "	49 -81
875	14.4 -8.3 57.6 -33.2	8.4 9.1	" "	84 -49
717	22.5 0.2 90.0 0.8	10.3 11.1	" "	131 1
877	25.8 3.6 103.2 14.4	1.2 2.0	" "	150 21

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10

-46° 43.4	22	36	49	-46°	45.4	eF eS lE@ 30° a/m*
-46° 44.4	22	36	48	-46°	45.6	
1.46	22	36	48	-46°	45.5	
	22	35	51	-46°	40.7	eF eS bM lE @ 40°
	22	35	49	-46°	40.9	
	22	35	50	-46°	40.8	
	22	36	26	-46°	35.0	ecFeeS
	22	36	21	-46°	35.3	
	22	36	24	-46°	35.2	This nebula very hard to measure. Not very accurate?!!!
	22	37	13	-46°	33.1	eF vS bM
	22	37	11	-46°	33.3	
	22	37	12	-46°	33.2	
	22	37	32	-46°	42.2	ecFeeS
	22	37	31	-46°	42.4	
	22	37	32	-46°	42.3	

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65

740	− 6.0 7.0 − 24.0 28.0	8.4 − 3.8	10430 10427 22 33 31.5 22 32 17.0 −46 51.1 −46 38.9 + 1.30 + 7.7	22 35 2 22 33 47 − 35 40
739	− 6.9 6.2 −27.6 24.8	8.2 − 3.7	"	− 40 36
738	− 7.9 5.2 − 31.6 20.8	9.0 − 3.0	" "	−46 30
880	− 8.0 5.4 −32.0 21.6	13.6 1.3	" "	− 46 31
882	4.2 −7.3 + 16.8 −29.2	6.7 − 19.3	10427 10428 22 32 17.0 22 33 22.5 −46 38.9 −46 12.9 +1.30 +7.7	22 33 47 22 34 53 25 − 43

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	-46° 43.4	22	34	27	-46° 35.0	eeFeS
17	-46° 31.2	22	34	27	-46° 35.0	
	1.46	22	34	27	-46° 35.0	
		22	34	22	-46° 35.2	eeFvS
		22	34	23	-46° 34.9	
		22	34	22	-46° 35.0	
		22	34	16	-46° 34.4	eeFeeS
		22	34	17	-46° 34.2	
		22	34	16	-46° 34.3	
		22	34	16	-46° 29.8	vFeS
		22	34	18	-46° 29.9	
		22	34	17	-46° 29.8	
47	-46° 31.2	22	34	12	-46° 23.5	vFeS a/m *
3	-46° 5.2	22	34	10	-46° 24.5	
	1.45	22	34	11	-46° 24.0	

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1923phae.proj.23055

70

737	12.8 1.5 51.2 6.0	7.2 # −19.1	10427 10428 22 32 17.0 22 33 22.5 −46 38.9 −46 12.9 +1.30 +7.7	22 33 47 22 34 53 75 8
736	13.4 2.3 53.6 9.2	9.9 ~~−11.6~~ −16.3	" "	78 13
881	2.6 −9.0 10.4 −36.0	8.2 −17.9	" "	15 −52
741	7.3 −4.0 29.2 −16.0	12.0 −14.2	" "	42 −23
744	13.1 1.9 5 2.4 7.6	14.4 −11.9	" "	76 11

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1923phae.proj.23055

-46° 31.2	22	35	2	-46°	24.0 eF.2ér6M
-46° 5.2	22	35	1	-46°	24.3
1.45	22.	35	2	-46°	24.2
	22	35	5	-46°	21.3 eF.2ér 9pSvmbM
	22	35	6	-46°	21.5
	22	35	6	-46°	21.4
	22	34	2	-46°	23.0 eeFeeS
	22	34	1	-46°	23.1
	22	34	2	-46°	23.0
	22	34	29	-46°	19.2eeFeS
	22	34	30	-46°	19.4
	22	34	30	-46°	19.3
	22	35	3	-46°	16.8eeFeS IE @ 40°v16M
	22	35	4	-46°	17.1
	22	35	4	-46°	17.0

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1923phae.proj.23055

75

757	6.6 − 4.7 26.7 − 18.8	16.5 ~~9.9~~ −10.2	10427 10428 22 32 17.0 22 33 22.5 −46 38.9 −46 12.9 +1.30 +.77	22 33 .47 22 34 53 38 − 27
7412	5.1 −6.1 20.4 −24.4	18.6 −8.3	"	30 35
7413	8.1 −3.2 32.4 −12.8	19.4 −7.5	"	47 −19
5	12.8 1.7 51.2 6.8	21.1 −5.7	"	74 10
756	8.9 −1.7 35.6 −6.8	24.1 −2.7	"	52 −10

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1923phae.proj.2305S

Checked to here OK

-46° 31.2	22	34 25	-46°	14.7	ee Fe S
-46° 5.2	22	34 20	-46°	15.4	
1.45	22	34 22	-46°	15.0	
	22	34 17	-46°	12.6	ee Fee S
	22	34 18	-46°	13.5	
	22	34 18	-46°	13.0	
	22	34 34	-46°	11.8	ee Fee S
	22	34 34	-46°	12.7	
	22	34 34	-46°	12.2	
	22	35 1	-46°	10.1	F 1.5 x .3' @ 140° b M
	22	35 3	-46°	10.9	def spin
	22	35 2	-46°	10.5	
	22	34 39	-46°	7.1	e F e S v m b M
	22	34 43	-46°	7.9	
	22	34 41	-46°	7.5	

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1923phae.proj.23055

72

80

35	−10.1	−2.6	10428	22 34 53
	23.4	−13.3	10426	22 31 42
	−40.4		22 33 22.5 22 30 11.2	−58
	+93.6		−46 12.9 −46 2.1	135
			+1.30 +7.7	
752	−6.2	4.4	"	
	27.3	−6.3	"	
	−24.8			−36
	109.2			156
753	−6.0	3.9	"	
	27.6	−7.3	"	
	−24.0			−34
	110.4			158
756	−9.9	10.0	"	
	23.8	−0.7	"	
	−39.6			−57
	95.2			137
40	−10 5.8	9.7	"	
	22.6	−0.8	"	
	−43.2			−62
	904			130

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1923phae.proj.2305S

V

	-46°	5.2	22	33 55	-46°	7.8	eF .1 x .4 @ 135°
	-45°	544	22	33 57	-46°	7.7	6 M def. spin.
	1.44		22	33 56	-46°	7.8	
			22	34 17	-46°	0.8	ecF es
			22	34 18	-46°	0.7	
			22	34 18	-46°	0.8	
			22	34 19	-46°	1.3	ecF ecS
			22	34 20	-46°	1.7	
			22	34 20	-46°	1.5	
			22	33 56	-45°	55.2	ecF ecS
			22	33 59	-45°	55.1	
			22	33 58	-45°	55.2	
			22	33 51	-45°	55.0	eF .2 or *?
			22	33 52	-45°	55.2	
			22	33 52	-45°	55.4	

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1923phae.proj.23055

74

85

783	−12.6	10.4	10428	22 34 53
	21.0	−0.2	10426	22 31 42
	−50.4		22 32 22.5 22 30 11.2	− 73
	84.0		−46° 12.9 −46° 2.1	120
			+1.30 +7.7	
754	− 2.0	4.7	10428	22 34 53
	− 3.7	−15.9	10322	22 35 2
	− 8.0		22 33 22.5 22 33 31.9	− 11
	−14.8		−46 12.9 −45 12.6	− 21
			+1.30 +7.7	
669	3.9	7.1	"	
	2.4	−13.5	"	
	15.6			22
	9.6			14
45	0.7	9.9	"	
	−0.9	−10.8	"	
	2.8			4
	−3.6			− 5
667	2.1	11.4	"	
	0.4	−9.1	"	
	8.4			12
	1.6 ✓	✓		2

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V

53	-46°	5.2	22	33	40	-45°	54.8	eFeS o/m *
42	-45°	54.4	22	33	42	-45°	54.6	
	1.44		22	33	41	-45°	54.7	
3	-46°	5.2	22	34	42	-46°	0.5	eeFeeS
2	-45°	44.9	22	34	41	-46°	0.8	
	144		22	34	42	-46°	0.6	
			22	35	15	-45°	58.1	eFeS * ?
			22	35	16	-45°	58.4	
			22	35	16	-45°	58.2	
			22	34	57	-45°	55.3	eF.eS iF IE@0°
			22	34	57	-45°	55.7	
			22	34	57	-45°	55.5	
			22	35	5	-45°	53.8	eeFeeS
			22	35	4	-45°	54.0	
			22	35	4	-45°	53.9	

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1923phae.proj.23055

76

70

666	− 1.9 − 3.7 (4) − 7.6 −14.8	14.3 − 6.4	10428 10322 22 33 22.5 22 33 31.9 −46 12.9 −45 52.6 +1.30 +7.7	22 34 33 22 35 2 − 11 −21
668	1.7 0.0 6.8 0.0	12.7 − 7.8	"	10 0
788	10.0 8.5 40.0 34.0	9.3 −11.3	" "	58 48
787	13.3 -10.8^2 (4) 53.2 −40.8	− 1.5 − 7.8	10431 10433 22 34 0.5 22 36 14.6 −46 10.4 −46 4.3 1.30 +7.7	22 35 31 22 37 45 77 − 59
670	7.7 +1.0 30.8 4.0	− 2.0 − 4.5	10428 10431 22 33 22.5 22 34 0.5 −46° 12.9 −46 10.4 +1.30 +7.7	22 34 53 22 35 31 44 5

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1923phate.proj.23055

V

-46°	5.2	22	34	42	-45°	50.9	eeFeeS
-45°	44.7	22	34	41	-45°	51.3	
1.44		22	34	42	-45°	51.1	
		22	35	3	-45°	52.5	eFeeS
		22	35	2	-45°	52.7	
		22	35	2	-45°	52.6	
		22	35	51	-45°	55.9	eeFeS
		22	35	50	-45°	56.2	
		22	35	50	-45°	56.0	
-46°	2.7	22	36	48	-46°	4.2	eeFeS
-45°	56.6	22	36	46	-46°	4.4	
		22	36	47	-46°	4.3	
1.44							
-46°	5.2	22	35	37	-46°	7.2	eeFeS
-46°	2.7	22	35	36	-46°	7.2	
		22	35	36	-46°	7.2	
1.44							

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78

95

674.	8.6	31.4	10430	22 35 2
	4.1	− 9.6	10431	22 35 31
	34.4		22 33 31.5 22 34 0.5	50
	16.4		−46 51.1 −46 10.4	24
			+1.30 +7.7	
745	8.6	28.3	"	
	4.0	− 12.6	"	
	34.4			50
	16.0			23
746	8.0	23.3	"	
	3.3	− 17.0	"	
	32.0			46
	13.2			19
866	11.3	22.3	"	
	6.7	− ~~+3.3~~	"	
	45.2	−18.7		66
	26.8			39
872	7.7	17.4	"	
	3.2	− 23.6	"	
	30.2			44
	12.8			19

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V

-46°	43.4	22	35	52	-46°	12.0	eFeS 6M alm*
-46°	2.7	22	35	55	-46°	12.3	
1.46		22	35	54	-46°	12.2	
		22	35	52	-46°	15.1	eeFeeS
		22	35	54	-46°	15.3	
		22	35	53	-46°	15.2	
		22	35	48	-46°	20.1	eFeS iF defect ??
		22	35	50	-46°	19.7	
		22	35	49	-46°	19.9	
		22	36	8	-46°	21.1	eeFeeS
		22	36	10	-46°	21.4	
		22	36	9	-46°	21.2	
		22	35	46	-46°	-26.0	eeFeeS
		22	35	50	-46°	26.3	
		22	35	48	-46°	26.2	

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100

873	7.6 2.9 30.4 11.6	16.6 −24.4 41.0	10430 10431 22 33 31.5 22 34 0.5 −46 51.1 −46 10.4 +1.30 +7.7	22 35 2 22 35 31 44 17
747	4.2 −1.0 16.8 −4.0	19.6 −21.5	"	25 −5
748	5.6 0.6 22.4 2.4	17.1 −23.9	"	33 4
870	3.9 −0.9 15.6 −3.6	15.7 −25.1	"	23 −5
871	6.6 1.7 26.7 6.8	14.4 −26.2	"	39 10

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-46°	43.4	22	35 46	-46°	26.8	eeFeeS
-46°	2.7	22	35 48	-46°	27.1	
1.46		22	35 47	-46°	27.0	
		22	35 27	-46°	33.8	eFeS vIE@10°
		22	35 26	-46°	24.2	
		22	35 26	-46°	24.0	
		22	35 35	-46°	26.3	eFeS16M
		22	35 35	-46°	26.6	
		22	35 35	-46°	26.4	
		22	35 25	-46°	27.7	eeFeeS
		22	35 26	-46°	27.6	
		22	35 26	-46°	27.8	
		22	35 41	-46°	29.0	eeFeeS IE@45°
		22	35 41	-46°	28.9	
		22	35 41	-46°	29.0	

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1923phae.proj.23055

82

5/

674	8.2	− 13.8	10430	22 35 2
	3.4	− 27.2	10431	22 35 31
	32,8		22 33 31.5 22 34 0.5	48
	13.6		−46 51.1 −46 10.4	20
			+1.30 +7.7	
749	13.1	20.6	"	
	8.3	− 20.3	"	
	52,4			77
	33.2			48
687	15.7	17.0	"	
	11.1	− 23.9	"	
	62.8			92
	44.4			65
686	15.3	15.4	"	
	11.4	− 25.3	"	
	61.2			89
	45.6			66
672	10.8	− 6.0	10431	22 35 31 −4
	−18.7	− 2.8	10434	22 38 .15 −2
	43.2		22 34 0.5 22 36 45.1	63
	−74.8		−46 10.4 −46 14.0	−109
	✓	✓	+1.30 +7.7	

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1923phae..proj..2305S

✓

-46°	43.4	22	35 50	-46°	29.6	eeFvS
-46°	2.7	22	35 51	-46°	29.9	
1.46		22	35 50	-46°	29.8	
		22	36 19	-46°	22.8	eFeS iF
		22	36 19	-46°	23.0	
		22	36 19	-46°	22.9	
		22	36 34	-46°	26.4	eFeS IE@10°
		22	36 36	-46°	26.6	
		22	36 35	-46°	26.5	
		22	36 31	-46°	28.0	eeFeeS
		22	36 37	-46°	28.0	
		22	36 34	-46°	28.0	
-46°	2.7	22	36 34	-46°	8.7	eF.2dbM
-46°	6.3	22	36 26	-46°	9.1	
1.4#		22	36 30	-46	8.8	

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1923phae.proj.23055

84

10

675	15.0 -13.6 60.0 -54.4	-8.0 -4.7	10431 10434 22 34 01.5 22 36 45.1 -46 10.4 -46 14.0 +1.30 +7.7	22 35 31 22 38 15 86 -78
676	15.1 -13.7 +60.4 -54.8	-9.6 -6.0		87 -79
677	~~14.5~~ 9.5 -19.2 38.0 -76.8	-9.6 -6.4		54 -111
678	16.5 -11.7 66.0 -46.8	-11.8 -8.5		95 -67
673	11.0 -17.7 44.0 -70.8	-11.8 -8.6		63 -102

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1923phae..proj..2305S

V

-46°	2.7	22	36	57	-46°	10.7	ccF ccS
-46°	6.3	22	36	57	-46°	11.0	
1.44		22	36	57	-46°	10.8	
		22	36	58	-46°	12.3	ccF ccS 1E
		22	36	58	-46°	12.3	
		22	36	58	-46°	12.3	
		22	36	25	-46°	12.3	eF eS 6M o/m ~~x~~
		22	36	24	-46°	12.7	
		22	36	24	-46°	12.5	
		22	37	6	-46°	14.5	ee F ee S
		22	37	8	-46°	14.8	
		22	37	7	-46°	14.6	
		22	36	34	-46°	14.5	ee F ee S
		22	36	33	-46°	14.9	
		22	36	34	-46°	14.7	

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1923phae.proj.23055

15

687	2.7	28.2	10432	22	37	10
	− 8.5	− 10.6	10434	22	38	15
	10.8		22 35 40.1 22 36 45.1		16	
	−34.0		−46 52.1 −46 14.0		− 49	
			+1.30 +7.7			
688	4.3	27.7	"			
	− 7.0	− 10.9	"			
	17.2				25	
	−28.0				− 40	
689	4.2	26.8	"			
	− 7.1	− 11.1	"			
	16.8				25	
	− 28.4				− 41	
690	6.6	27.5	"			
	− 5.6	− 11.0	"			
	26.4				39	
	− 22.4				− 33	
691	5.0	26.0	"			
	− 6.2	− 13.1	"			
	20.0				29	
	− 24.8				− 36	

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1923phae.proj.2305S

10	-46°	44.4	22	37	26	-46°	16.2	ecF eS · 2 ó/ kM
5	-46°	6.3	22	37	25	-46°	16.9	
	1.46		22	37	26	-46°	16.6	
	"		22	37	35	-46°	16.7	eFeSR
	"		22	37	35	-46°	17.2	
			22	37	35	-46°	17.0	
	"		22	37	35	-46°	17.6	eFeSR
	"		22	37	34	-46°	17.4	
			22	37	34	-46°	17.5	
	"		22	37	49	-46°	16.9	ecF eeS very hard to
	"		22	37	42	-46°	17.3	see thru glass to measure this one also.
			22	37	46	-46°	17.2	
	"		22	37	39	-46°	18.4	eoFeeS
	"		22	37	39	-46°	19.4	
			22	37	39	-46°	18.9	

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1923phae.proj.23055

20

720

0.7
−10.3
2.8
−41.2

22.4 ?
−16.3
~~38.7~~

10432
10434
22 35 40.1 22 36 45.1
−46 52.1 −46 14.0
+1.30 +77

22 37 10 −
22 38 15
4
− 60

719

1.7
−9.6
6.8
−38.4

15.3
−~~18.4~~
−23.27

"
"

10
− 56

718

−0.9
−12.0
− 3.6
−48.0

15.7
~~+7.1~~
−22.78

"
"

− 5.0
− 70

876

7.7
−22.3
30.8
− 89.2

5.8
−16.8

10432
10440
22 35 40.1 22 38 41.1
−46 52.1 −46 29.9
+1.30 / +7.7

22 37 10 −
22 40 11
45
−130

721

~~25.3~~
~~+7.3~~
−6.2
10.2
−24.8

6.0
−16.5
V

"
"

147
− 36

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10	−46°	44.4	22	37	14	−46° 22.0	/
5	−46°	6.3	22	37	15	−46° 22.6	
	1.46		22	37	14	−46° 22.3	
			22	37	20	−46° 29.1	/
			22	37	19	−46° 29.5	
			22	37	20	−46° 29.3	
			22	~~37~~ 36	~~5~~ 18	−46° 28.7	eeF eS .1x.2 @ 40°
			22	37	5	−46° 29.0	spin bm.
			22	37	5	−46° 28.8	
0	−46°	44.4	22	37	55	−46° 38.6	/
11	−46°	22.2	22	38	1	−46° 39.0	
	1.46	~~1.2~~	22	38	58	−46° 38.8	
			22	39	37	−46° 38.4	/
			22	39	35	−46° 38.7	
			22	39	36	−46° 38.6	

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25

795	~~25.4~~ 16.5 −14.4 66.0 −57.6	12.1 −10.6	10432 10440 22 35 40.1 −46 52.1 +1.30 22 38 40.1 −46 29.9 +7.7	22 37 10 −4 22 40 11 −4 ~~148~~ 96 −84
700	~~30.6~~ 25.6 −4.0 102.4 −16.0	13.9 −8.9	〃 〃	148 −23
701	~~32.5~~ 27.3 −4.2 110.0 −16.8	13.5 −9.2	〃 〃	160 −25
702	~~31.3~~ 26.3 −5.4 105.2 −21.6	12.9 −9.7	〃 〃	153 −32
699	~~31.1~~ 26.1 −5.4 104.4 −21.6	14.6 −8.0	〃 〃	~~94~~ 151 −32

46 5 250

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1923phae.proj.2305S

0	-46°	44.4	22	38	46	-46°	32.3
1	-46°	22.2	22	38	47	-46°	32.8
	1.46		22	38	46	-46°	32.6
			22	39	38	-46°	30.5
			22	39	48	-46°	31.1
			22	39	43	-46°	30.8
			22	39	50	-46°	30.9
			22	39	46	-46°	31.4
			22	39	48	-46°	31.2
			22	39	43	-46°	31.5
			22	39	39	-46°	31.9
			22	39	41	-46°	31.7
			22	39	41	-46°	29.8
			22	39	39	-46°	30.2
			22	39	40	-46°	30.0

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30

697	~~27.0~~ ~~27~~ 2	22.8	10432	22 37	10 -46
	— 4.7	+ ~~0.3~~ ~~3.0~~	10440	22 40	11 -46
	108.0		22 35 40.1	22 38 41.1	157.
	-18.8		-46 52.1	-46 29.9	— 27
			+1.30	+7.7	
693	~~16.4~~	20.7	"		
	— 15.0	— 1.8	"		
	65.6				~~95.7~~ 96
	-60.0				— 88
691	12.2	22.3	"		
	— 19.6	-0.3	"		
	48.8				71
	-78.4				— 114
692	15.7	23.4	"		
	— 16.7	+0.8	"		
	62.8				92
	-66.8				— 98
696	29.3	19.3			
	~~19.2~~	~~15.3~~			
	— 1.7	— 3.0			
	117.2				170
	— 6.8				— 10

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10	-46°	44.4	22	39	47	-46°	21.6
11	-46°	22.2	22	39	44	-46°	21.9
	1.46		22	39	46	-46°	21.8
			22	38	46	-46°	23.7
			22	38	43	-46°	24.0
			22	38	44	-46°	23.8
			22	38	21	-46°	22.1
			22	38	27	-46°	22.5
			22	38	24	-46°	22.3
			22	38	42	-46°	21.0
			22	38	33	-46°	21.4
			22	38	38	-46°	21.2
			22	40	0	-46°	25.1
			22	40	1	-46°	25.2
			22	40	0	-46°	25.2

Extremely difficult to measure, Not very accurate

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35

705	5.1	4.2	-10446	22 41 17	-4
	8.6	-8.4	10445-	22 40 59	-4
	20.4		22 39 47.1 22 39 28.6	30	
	34.4		-46 56.7 -46 44.1	50	
			1.30 +7.7		
704	5.1	5.0	"		
	11.4	-7.6	"		
	32.4			47	
	45.6			67	
139	4.4	9.1	"		
	7.7	-3.5	"		
	17.6			26	
	30.8			45	
136	3.2	10.1	"		
	6.3	-2.9	"		
	12.8			19	
	25.2			37	
128	-7.4	10.6	"		
	-41.1	-1.8	"		
	-29.6			-43	
	-16.4			-24	

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1923phae.proj.2305S

V

-46°	49.0	22	41	47	-46°	44.8 z 16M
-46°	36.4	22	41	49	-46°	44.8
1.46		22	41	48	-46°	44.8

22	42	4	-46°	44.0	z cbM IE?
22	42	6	-46°	44.0	
22	42	5	-46°	44.0	

22	41	43	-46°	39.9	z a/m.* bM
22	41	44	-46°	39.9	
22	41	44	-46°	39.9	

22	41	36	-46°	38.9	z
22	41	36	-46°	39.3	
22	41	36	-46°	39.1	

22	40	34	-46°	38.4	eF.z'dgpsumbM
22	40	35	-46°	38.2	a/m*
22	40	34	-46°	38.3	

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40

138	−0.6 ~~7.6~~ ~~4.5~~ −2.4 30.4	3.7 −10.9	10445 10440 22 39 28.6 22 38 41.1 −46 44.1 −46 29.9 1.30 +7.7	22 40 59 −46 22 40 11 −46 − 4 44		
137	2.1 10.2 8.4 40.8	4.7 −9.4	" " " "	12 60		
132	3.7 11.8 14.8 47.2	6.3 −7.8	" " " "	22 69		
131	3.3 ~~10.3~~ 11.3 13.2 44.8	9.7 − 4.5	" " " "	19 65		
129	2.2 10.3 8.8 41.2	12.4 −1.7	" " " "	13 60		

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1923phae.proj.23055

V

9	-46°	36.4	22	40	55	-46°	32.7	1
1	-46°	22.2	22	40	55	-46°	33.1	
	1.46		22	40	55	-46°	32.9	
			22	41	11	-46°	31.7	1
			22	41	11	-46°	31.6	
			22	41	11	-46°	31.6	
			22	41	21	-46°	30.1	1
			22	41	19	-46°	30.0	
			22	41	20	-46°	30.0	
			22	41	18	-46°	26.7	eFeS alm * vm bM
			22	41	16	-46°	26.7	
			22	41	17	-46°	26.7	
			22	41	12	-46°	24.0	2
			22	41	11	-46°	23.9	
			22	41	12	-46°	24.0	

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45

130	4.0 12.1 16.0 48.4	12.2 (3) −2.0	10445 10440 22 39 28.6 −46 44.1 +1.30 22 38 41.1 −46 29.9 +7.7	22 40 59 −46 22 40 11 −46 23 71	
133	3.6 11.7 14.4 46.8	14.3 + 0.1	〃 〃	21 68	
~~926~~ 926	−7.7 6.9 −30.8 ~~+23.6~~ 3.6	~~12.7~~ ~~4.7~~ −5.0	10440 10436 22 38 41.1 −46 29.9 +1.30 22 37 51.1 −46 12.1 +7.7	22 40 11 −46 22 39 21 −46 −45 ~~34~~ 5	
695	−4.1 ~~(4.8)~~ ~~9.1~~ −19.2 ~~36.4~~ 16.4	7.0 −10.7	〃 〃	−28 ~~53~~ 24	
694	−1.1 ~~7.8~~ ~~+2.8~~ −4.4 ~~5.2~~ 31.2	~~4.5~~ ~~+3.0~~ −13.3	〃 〃	−6 ~~44~~ 45	

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-9	-46°	36.4	22	41	22	-46°	24.2	1
1	-46°	22.2	22	41	22	-46°	24.2	
	1.46		22	41	22	-46°	24.2	
			22	41	20	-46°	22.1	eFes 6M 1E@10°
			22	41	19	-46°	22.3	
			22	41	20	-46°	22.2	
1	-46°	22.2	22	39	26	-46°	9.5	2
21	-46°	4.4	22	39	26	-46°	9.4	
	1.45		22	39	26	-46°	9.4	
			22	39	43	-46°	15.2	2 6M
			22	39	45	-46°	15.1	
			22	39	44	-46°	15.2	
			22	40	5	-46°	17.7	2 v g 6M
			22	40	6	-46°	17.7	
			22	40	6	-46°	17.7	

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1923phae.proj.23055

100

50

54	37.1	−12.1		10431	22	35	31
	8.3	−9.8		10434	22	38	15
	148.4		−22 34 0.5	22 36 45.1		210.	
	33.2		−46 10.4	−46 14.0		48	
			+1.30	+7.7			
55	33.9	−7.2		"			
	5.2	−3.8		"			
	135.6					195	
	20.8					30	
794	35.3	−9.9 v		"			
	6.7	−6.5		"			
	141.2					203	
	26.8					39	
795	28.5	−9.9 v		"			
	−0.3	−6.5		"			
	114.0					164	
	−1.2					−2	
656	24.9	−11.7		"			
	−3.8	−8.3		"			
	99.6					143	
	−15.2					−22	

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1923plate.proj.23055

V

-46°	2.7	22	39 1 ~~55 52~~	-46°	15.8	eeF eS 1E @ 75°
-46°	6.3	22	39 3	-46°	16.1	
1.44		22	39 2	-46°	16.0	
		22	38 46	-46°	9.9	/
		22	38 45	-46°	10.1	
		22	38 46	-46°	10.0	
		22	38 54	-46°	12.6	/
		22	38 54	-46°	12.8	
		22	38 54	-46°	12.7	
		22	38 15	-46°	12.6	eeF .2 2/
		22	38 17	-46°	12.8	
		22	38 16	-46°	12.7	
		22	37 54	-46°	14.4	eeF eS
		22	37 53	-46°	14.6	
		22	37 54	-46°	14.5	

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1923phae.proj.23055

102

55

680	4.7	−13.0	10433	22 37 45
	− 0.8	− 3.3	10434	22 38 15
	18.8		22 36 14.6 22 36 45.1	27
	− 3.2		−46 4.3 −46 14.0	− 5
			+1.30 +7.7	
679	4.8	−12.1	"	
	− 0.6	− 2.5	"	
	19.2			28
	− 2.4			− 3
681	~~5.3~~ 4.9	− 11.2	"	
	− 0.3	− 1.6	"	81
	21.2			− 2
	− 1.2			
682	7.8	− 12.8	"	
	2.3	− 3.1	"	
	31.2			45
	9.2			13
53	8.8	− 8.6	"	
	3.6	1.0	"	
	35.2			57
	14.4			21

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1923phot.proj.29055

V

-45°	56.6	22	38	12	-46°	9.6	1
-46°	6.3	22	38	10	-46°	9.6	
1.44		22	38	11	-46°	9.6	
		22	38	13	-46°	8.7	2
		22	38	12	-46°	8.8	
		22	38	12	-46°	8.8	
		22	38	16	-46°	7.8	1
		22	38	13	-46°	7.9	
		22	38	14	-46°	7.8	
		22	38	30	-46°	9.4	1
		22	38	28	-46°	9.4	
		22	38	29	-46°	9.4	
		22	38	36	-46°	5.2	e F. 1cl χ^2_1
		22	38	36	-46°	5.3	
		22	38	36	-46°	5.2	

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1923phae.proj.23055

60

52	7.6	− 7.0	10433	22 37 45
	− 9.4	0.9	10436	22 39 21
	30.4		22 36 14.6 22 37 51.1	44
	−37.6		−46 4.3 −46 12.1	− 54
			+1.30 +7.7	
662	6.0	−6.4	"	
	− 6.9	1.3	"	
	32.0			46
	−35.6			− 51
665	13.0	− 4.3	"	
	− 3.7	3.4	"	
	52.0			74
	−14.8			− 21
661	13.3	−0.9	"	
	− 3.8	7.0	"	
	53.2			77
	− 15.2			−22
50	3.3	0.5	"	
	− 13.9	8.3	"	
	13.2			19
	−55.6			− 80,

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V

-45° 56.6	22	38	29	-46°	3.6	2 bM
-46° 4.4	22	38	27	-46°	3.5	
1.44	22	38	28	-46°	3.6	
	22	38	31	-46°	3.0	1 16M
	22	38	30	-46°	3.1	
	22	38	30	-46°	3.0	
	22	38	59	-46°	0.9	2
	22	39	0	-46°	1.0	
	22	39	0	-46°	1.0	
	22	39	2	-45°	57.5	2
	22	38	59	-45°	57.4	
	22	39	0	-45°	57.4	
	22	38	4	-45°	56.1	1
	22	38	1	-45°	56.1	
	22	38	2	-45°	56.1	

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106

65

660	11.8	3.1	10433	22 37 45
	−5.3	10.8v	10436	22 39 21
	47.2		22 36 14.6 22 37 51.1	68
	−21.2		−46 4.3 −46 12.1	−31
			+1.30 +7.7	
149	12.3	4.4	10436	22 39 21
	5.6	7.3	10439	22 40 1
	49.2		22 37 51.1 22 38 30.6	71
	22.4		−46 12.1 −46 15.1	32
			+1.30 +7.7	
135	11.1	13.1	10446	22 41 17
	−2.9	−0.7	10445	22 42 39
	44.4		22 39 47.1 22 41 9.1	65
	−11.6		−46 56.7 −46 42.9	−17
			+1.30 +7.7	
144	16.7 ~~6.7~~	8.7	"	
	2.7	−5.1	"	
	66.8			98
	10.8			16
175	13.5	−1.6	"	
	−0.4	−15.2	"	
	54.0			78
	−2.0	✓		−2

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✓

-46°	56.6	22	38	53	-45°	53.5	1
-46°	4.4	22	38	50	-45°	53.6	
1.44		22	38	52	-45°	53.6	
-46°	4.4	22	40	32	-46°	0.0	1
-46°	7.4	22	40	33	-46°	0.1	
1.44		22	40	32	-46°	0.0	
-46°	49.0	22	42	22	-46°	35.9	vF, 3'd gpsum bM
-46°	35.2	22	42	22	-46°	35.9	
1.46		22	42	22	-46°	35.9	
		22	42	55	-46°	40.3	2
		22	42	55	-46°	40.3	
		22	42	55	-46°	40.3	
		22	42	35	-46°	50.6	2 bM
		22	42	37	-46°	50.4	
		22	42	36	-46°	50.5	

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108

70

202	14.1	2.2	10449	22 42 39	
	-1.3	-6.0	10450	22 44 10	
	56.4		22 41 9.1	22 42 40.1	82
	-5.2		-46 42.9	-46 34.8	-8
			+1.30	+7.7	
203	14.1	2.0	"		
	-1.2	-6.2	"		
	56.4				82
	-4.8				-7
142	~~11.0~~ 11	2.2 2	"		
	-4.6	-6.3	"		
	44.0				64
	-18.4				-27
165	16.7 7	-1.2	"		
	+1.2 ✓	-9.6	"		
	66.8				98
	4.8				7
143	9.4 9	-3.2	"		
	-5.8 (6)	-11.6	"		
	37.6				55
	-23.2				-34

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V

9	-46°	35.2	22	44 1	-46°	33.0 /
0	-46°	27.1	22	44 2	-46°	33.1
	1.46		22	44 2	-46°	33.0
			22	44 1	-46°	33.2 /
			22	44 3	-46°	33.3
			22	44 2	-46°	33.2
			22	43 43	-46°	33.0 eF, 2by, 1 @ 50° bM
			22	43 43	-46°	33.4 def spin
			22	43 43	-46°	33.2
			22	44 17	-46°	36.4 eeF vS
			22	44 17	-46°	36.7
			22	44 17	-46°	36.6
			22	43 34	-46°	38.4 eFeeS
			22	43 36	-46°	38.7
			22	43 35	-46°	38.6

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110

75

501	26.0	3.4	10449	22 42 39	
	−11.6	10.1	10452	22 46 15	
	104.0		22 41 9.1	22 44 44.7	151
	−46.4		−46 42.9	−46 50.0	− 68
			+1.30	+1.77	
159	28.3	−5.1	"		
	− 9.1	1.6	"		
	113.2				163
	−36.4				− 49
163	23.3 ~~(3)~~	− 8.8	"		
	− 14.1	− 2.0	"		
	93.2				135
	−56.4				− 82
164	18.4	− 4.9	"		
	− 19.0	1.7	"		
	73.6				107
	−76.0				− 110
162	24.0	− 13.4	"		
	− 13.4	− 6.8	"		
	96.0				139
	−53.6				− 78

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V

9	-46°	35.2	22	45 10	-46°	31.8 2
5	-46°	42.3	22	45 7	-46°	32.2
	1.45		22	45 8	-46°	32.0
			22	45 22	-46°	40.3 2 defect? umbM
			22	45 26	-46°	40.7
			22	45 24	-46°	40.5
			22	44.54	-46°	44.0 1
			22	44 53	-46°	44.3
			22	44 54	-46°	44.2
			22	44 26	-46°	40.1 2
			22	44 25	-46°	40.6
			22	44 26	-46°	40.4
			22	44 58	-46°	48.6 ecF eS 16M
			22	44 57	-46°	49.1
			22	44 58	-46°	48.8

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EP

160	23.6	−13.8	10449	22 42 39	
	−13.8	−7.0	10452	22 46 15	
	94.4		22 41 9.1 22 44 44.7	138	
	−55.2		−46 42.9 −46 50.0	−81	
			+1.30 +7.7		
161	22.4	−13.1	"		
	−15.0	−6.6	"		
	89.6			131	
	−60.0			−88	
166	16.0	−13.2	"		
	−21.2	−6.6	"		
	64.0			93	
	−84.8			−124	
170	8.8	−11.6	"		
	−28.3	−5.1	"		
	35.2			51	
	−113.2			−164	
204	0.6	−2.7	10451	22 44 9	
	0.6	7.3	10450	22 44 9	
	2.4		22 42 40.1 22 42 40.1	4	
	2.4		−46 24.8 −46 34.8	4	
			+1.29 +7.8		

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1923phae.proj.23055

✓

39	-46°	35.2	22	44	57	-46°	49.0	2 defect?
15	-46°	42.3	22	44	54	-46°	49.3	
	1.46		22	44	56	-46°	49.2	
			22	44	50	-46°	48.3	2
			22	44	47	-46°	48.9	
			22	44	48	-46°	48.6	
			22	44	12	-46°	48.3	2
			22	44	11	-46°	48.9	
			22	44	12	-46°	48.6	
			22	43	30	-46°	46.8	1
			22	43	31	-46°	47.4	
			22	43	30	-46°	47.1	
9	-46°	17.0	22	44	13	-46°	19.7	eFeScbM
9	-46°	27.0	22	44	13	-46°	19.7	
	1.45		22	44	13	-46°	19.7	

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1923phae.proj.23055

F5

140	29.6 −13.8 1184 −55.2	−17.0 2.0	10439 10450 22 38 30.6 22 42 10.1 −46 15.1 −46 34.8 +1.29 +7.8	22 40 0 22 44 9 169 ~~99~~ ~~108~~ −79	
756	31.6 −11.6 126.4 −46.4	−7.0 12.0	"	181 −67	
155	33.1 −10.3 132.4 −41.2	−1.8 17.3	" "	190 −59	
154	34.3 −9.3 137.2 −37.2	−0.3 19.0	" "	197 −54	
134	20.8 ~~29.4~~ −23.6 80.0 −94.4	−9.1 9.9	" "	115 −136	

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V

0	-46°	7.3	22	42 49	-46°	24.3	eFeS 1E@135° bM
9	-46	27.0	22	42. 50	-46°	25.0	
	1.44		22	4250	-46°	24.6	
			22	43 1	-46°	14.3	2
			22	43 2	-46°	14.0	
			22	43 2	-46°	14.2	
			22	43 10	-46°	9.1	eF .2'by.1' 1E@ 40°
			22	43 10	-46°	9.7	16M spin?
			22	43 10	-46°	9.4	
			22	43 17	-46°	7.6	eFeS bM 1E@ 170°
			22	43 15	-46°	8.0	spin? defect?
			22	43 16	-46°	7.8	
			22	41 55	-46°	16.4	/
			22	41 53	-46°	17.1	
			22	41 54	-46°	16.8	

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80

150	17.8 −25.6 71.2 −102.4	−0.3 18.8	10439 10450 22 38 30.6 22 42 40.1 −46 15.1 −46 34.8 +1.29 +7.8	22 40 0 22 44 9 103 −146
57	18.8 −25.0 75.2 −100.0	+4.5 ✓ 23.6	"	108. −144
151	39.5 − 4.2 158.0 −16.8	+3.2 ✓ 22.7	"	227 − 24
153	41.9 − 1.6 167.6 −64	+2.2 ✓ 21.7	"	241 − 9
152	37.6 − 6.0 150.4 −24.0 ✓	+8.0 ✓ 27.3	"	216 − 34

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V

0	-46°	7.3	22	41	43 -46° 7.6	2
9	-46°	27.0	22	41	43 -46° 8.2	
	1.44		22	41	43 -46° 7.9	
			22	41	48 -46° 2.8	2 1E @ 90° bM
			22	41	45 -46° 3.4	spir?
			22	41	46 -46° 3.1	
			22	43	47 -46° 4.1	2 bM
			22	43	43 -46° 4.3	
			22	43	45 -46° 4.2	
			22	44	1 -46° 5.1	2
			22	44	0 -46° 5.3	
			22	44	0 -46° 5.2	
			22	43	36 -45° 59.3	2 1E @ 40° bM
			22	43	35 -45° 59.7	
			22	43	36 -45° 59.5	

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1923phae.proj,2305S

118

95

141	~~-17.6 -44.8~~	7.3	10450	22 44 9
	30.8	-12.1	10439	22 40 0
	-50.4		22 42 40.1 22 38 30.6	-72
	123.2		-46 34.8 -46 15.1	+177
			+1.29 +7.8	
58	-5.4	-7.6 ~~-27.9~~	10338	22 42 32
	-23.0	+23.0	10451	22 44 9
	-21.6		22 41. 2.0 22 42 40.1	-31
	-92.0		-45 54.5 -46 24.8	-132
			1.30 +7.7	
62	6.6	-10.7	"	
	-11.7	19.7	"	
	26.4			38
	-46.8			-67
86	16.6	-12.5	"	
	-0.4	18.0	"	
	66.4			96
	-1.6			-2
69	25.0	-10.4	"	
	7.8	20.0	"	
	100.0			147
	34.2			45

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V

	-46°	27.0	22	42 57	-46°	19.7	eFeS 6s.
	-46°	7.3	22	42 57	-46°	19.4	
	1.44		22	42 57	-46°	19.6	
2	-45°	46.8	22	42 1	-45°	54.4	eFeS 6M 1E @ 180°
2	-46°	17.1	22	41 57	-45°	54.1	
	1.44		22	41 59	-45°	54.2	
			22	43 10	-45°	57.5	eF VS
			22	43 2	-45°	57.4	
			22	43 6	-45°	57.4	
			22	44 8	-45°	59.3	2
			22	44 7	-45°	59.1	
			22	44 8	-45°	59.2	
			22	44 56	-45°	57.2	2 6M
			22	44 54	-45°	57.1	
			22	44 55	-45°	57.2	

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120

100

87	24.2	− 13.1	10338	22	42	32
	7.0	17.5	10451	22	44	9
	96.8		22 41 2.0 22 42 40.1		139	
	28.0		−45 54.5 −46 24.8		40	
			+1.30 +7.7			
796	22.3	− 18.6	"			
	5.1	11.9	"			
	89.2				128	
	20.4				29	
195	+ 5.1	− 6.7	10452	22	46	12
	− 8.0	+ 5.1	9916	22	47	31
	20.4		22 44 44.7 22 46 0.8		29	
	− 32.0		−46 30.0 −47 1.8		− 136	
			+1.30 +7.7			
196	+ 3.2	− 7.0	"			
	− 9.9	+ 4.9	"			
	12.8				18	
	−39.6				− 58	
826	6.1	0.0	10461	22	48	27
	−10.3	2.8	10452	22	50	13
	24.4		22 46 59.5 22 48 34.5		36	
	− 4 1.2		− 46 32.9 −46 35.9		− 59	
	↓	↓	1.27 +8.0			

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✓

12	-45°	46.8	22	44 51	-45° 59.9	2ab M
9	-46°	17.1	22	44 49	-45° 59.6	
	1.44		22	44 50	-45° 59.8	
			22	44 40	-45° 55.4	1
			22	44 38	-45° 55.2	
			22	44 39	-45° 55.3	
12	-46°	42.0	22	46 41	-46° 48.7	2
1	-46°	54.1	22	46 45	-46° 49.0	
	1.44		22	46 43	-46° 46.8	
	1.46					
			22	46 30	-46° 49.0	2 v 16 M
			22	46 33	-46° 49.2	
			22	46 32	-46° 49.1	
7	-46°	24.9	22	49 3	-46° 24.9	eFeS 16 M R
13	-46°	27.9	22	49 14	-46° 25.1	
	1.46		22	49 8	-46° 25.0	

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122

5

200	-6.3	-0.4	10461	22 48 27	
	12.8	-16.2	10454	22 46 37	
	-25.2		22 46 59.5	22 45 9.7	-36
	51.2		-46 32.9	-46 17.2	73
			+1.27	+8.0	
205	-10.1	-6.0	10454	22 46 37	
	15.7	1.5	10451	22 44 7	
	-40.4		22 45 9.7	22 42 40.1	-57
	62.8		-46 17.2	-46 24.8	89
			+1.27	+8.0	
158	-11.0	-1.6	"	"	
	15.1	6.0			
	-44.0				-62
	60.4				88
199	-3.6	-2.7	"		
	22.4	4.7	"		
	-14.4				-21
	89.6				130
198	2.0	-3.5	"		
	28.2	4.0	"		
	8.0				11
	112.8				163

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V

-46°	24.9	22	47	51	-46°	25.3	2 16M
-46°	9.2	22	47	50	-46°	25.4	
1.45		22	47	50	-46°	25.4	
-46°	9.2	22	45	40	-46°	15.2	eFeS bM 1E @ 10°
-46°	16.8	22	45	36	-46°	15.3	
1.45		22	45	38	-46°	15.2	
		22	45	35	-46°	10.8	2 mbM
		22	45	35	-46°	10.8	
		22	45	35	-46°	10.8	
		22	46	16	-46°	11.9	/ vl6M.
		22	46	17	-46°	12.1	
		22	46	16	-46°	12.0	
		22	46	48	-46°	12.7	eeF vS b7
		22	46	50	-46°	12.8	
		22	46	49	-46°	12.8	

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f50	10.7	-6.8	10460	22	48	26
	-8.0	5.2	10465	22	50	12
	42.8		22 46 58.5	22 48 44.5		62
	-32.0		-46 11.7	-46 23.9		-46
			+1.27	+8.0		
f8	-1.4	3.3	10454	22	46	37
	23.3	-27.0	10342	22	44	17
	-5.6		22 45 9.7	22 42 50.0		-8
	93.2		-46 17.2	-45 47.0		133
			1.27	+8.0		
75	-7.1	8.0	"			
	17.6	-22.7	"			
	-28.4					-41
	70.4					101
76	-7.6	8.7	"			
	17.2	-21.8	"			
	-30.4					-44
	68.8					96
77	-7.2	12.0	"			
	17.4	-18.6	"			
	-28.8					-42
	69.6 ✓	✓				100

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1022phot.proj.29055

V

-46°	3.7	22	49	28 -46°	10.5	eeFeS spir.
-46°	15.9	22	49	26 -46°	10.7	
1.45		22	49	27 -46°	10.6	
-46.°	9.2	22	46	29 -46°	5.9	/
-45° 3	9.0	22	46	30 -46°	6.0	
1.45		22	46	30 -46°	6.0	
1.43						
		22	45	56 -46°	1.2	/
		22	45	58 -46°	1.7	
		22	45	57 -46°	1.4	
		22	45	53 -46°	0.5	eeFeS
		22	45	53 -46°	0.8	
		22	45	53 -46°	0.6	
		22	45	55 -45°	57.2	eFeS nmbll *?
		22	45	57 -45°	57.6	
		22	45	56 -45°	57.4	

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1923phae.proj.2305S

15

79	−10.4	+4.3	10454	22	46 37
	14.2	−16.3	10342	22	44 17
	−41.6		22 45 9.7	22 42 50.0	−60
	56.8		−46 17.2	−45 47.0	81
			+1.27	+8.0	
78	− 5.7	14.4	"		
	18.9	− 16.3	"		
	−22.8				−33
	75.6				108
71	−2.8	15.0	"		
	21.8	−15.6	"		
	−11.2				−16
	87.2				125
72	+6.1	14.9	"		
	30.7 ~~(it)~~	−15.6	"		
	24.4				35
	122.8				175
73	+ 3.4	12.0	"		
	27.9	−16.4	"		
	13.6				20
	111.6				160

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V

-46° 9.2	22	45	37	-45°	54.9
-45° 39.0	22	45	38	-45°	55.3
1.44	22	45	38	-45°	55.1
1.43					
	22	46	4	-45°	54.8
	22	46	5	-45°	53.3
	22	46	4	-45°	55.0
	22	46	21	-45°	54.2
	22	46	22	-45°	54.6
	22	46	22	-45°	54.4
	22	47	12	-45°	54.3
	22	47	12	-45°	54.6
	22	47	12	-45°	54.4
	22	46	57	-45°	57.2
	22	46	57	-45°	57.4
	22	46	57	-45°	57.3

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20

4	−3.0	6.0	10460	22	48 26
	7.1	−17.0	10352	22	47 23
	−12.0		22 46 58.5	22 45 59.6	−17
	28.4		−46 11.7	−45 48.7	41
			1.27	+8.0	
21	1.7	9.0	9924	22	50 33
	−10.0	−2.4	10467	22	51 42
	6.8		22 49 5.8	22 50 14.5	10
	−40.0		−47 5.1	−46 53.9	−58
			1.27	+8.0	
22	3.6	7.4	"		
	−8.1 ~~(.2)~~	−4.0	"		
	14.4				21
	−32.4				−47
23°	4.6	6.0	"		
	~~1.9~~	−5.4	"		
	−7.0 18.4				27
	−28.0				−40
856	6.0	0.0	10461	22	48 27
	−10.3	2.8	10464	22	50 2
	24.0		22 46 59.5	22 48 34.5	35
	−41.2	✓	−46 32.9	−46 35.9	−60
	✓		1.27	+8.0	

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✓

-46° 37.8	22	48	9	-45°	57.7	1
-45° 40.7	22	48	8	-45°	57.7	
1.44	22	48	8	-45°	57.7	
-46° 37.1	22	50	43	-46°	48.1	eFeS 16M
-46° 44.9	22	50	44	-46°	47.3	
1.46	22	50	44	-46°	47.7	
"	22	50	54	-46°	49.7	eFeS 16M
"	22	50	55	-46°	48.9	
	22	50	54	-46°	49.3	
"	22	51	0	-46°	49.1	eF vS
"	22	51	2	-46°	50.3	
	22	51	1	-46°	49.7	
-46° 24.9	22	49	2	-46°	24.9	eFeS 1E# @ 40° bm
-46° 27.9	22	49	2	-46°	25.1	* 2
	22	49	2	-46°	25.0	
1.46						

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25

15	0.4	− 3.7	10471	22 52 33	
	9.2	14.7	10467	22 54 42	
	1.6		22 51 5.5	22 50 14.5	2
	36.8		−46 35.7	−46 53.9	53
			1.27	+8.0	
14	− 3.1	− 11.0	"		
	6.7	7.3	"		
	− 12.4				− 18
	26.8				3.9
f14	5.6	− 9.1	10465	22 50 12	
	7.2	3.0	10464	22 50 2	
	22.4		22 48 44.5	22 48 34.5	32
	28.8		−46 23.9	−46 35.9	42
			1.27	+8.0	
f 13	− 2.2	− 6.5	"		
	− 0.6	5.6	"		
	− 8.8				− 13
	− 2.4				− 3
24	− 3.8	− 1.0	"		
	− 2.0	11.1	"		
	− 15.2				− 22
	− 8.0				− 11

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V

-46°	27.7	22	52	35	-46°	31.4	eF . 3 x .1 @ 40°.6 M
-46°	45.9	22	52	35	-46°	31.2	5 pairs
1.45		22	52	35	-46°	31.3	
		22	52	15	-46°	38.7	vF . 4d groups mb M
		22	52	21	-46°	38.6	groups.
		22	52	18	-46°	38.6	
-46°	15.9	22	50	44	-46°	25.0	2
-46°	27.9	22	50	44	-46°	24.9	
1.45		22	50	44	-46°	25.0	
		22	49	59	-46°	22.4	1
		22	49	59	-46°	22.3	
		22	49	59	-46°	22.4	
		22	49	50	-46°	16.9	eeF eS
		22	49	49	-46°	16.8	
		22	49	50	-46°	16.8	

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30

854	17.3	9.2	10465	22 50 12
	4.6	− 5.6	10466	22 51 26
	69.2		22 48 44.5 22 49 58.5	100
	18.4		−46 23.9 −46 9.3	27
			+1.27 +8.0	
206	14.3	10.1	〃	
	1.5	− 4.6	〃	
	57.2			83
	6.0			8
855	21.0	13.2	〃	
	8.3	− 1.6	〃	
	84.0			121
	33.2			48
〃	5.1	7.0	〃	
	− 7.5	− 7.8	〃	
	20.4			30
	−30.0			− 43
822	19.9	5.9	10466	22 51 26
	0.3	3.9	10476	22 53 16
	79.6		22 49 58.5 22 51 49.2	115
	1.2	✓	−46 9.3 −46 7.6	2
			+1.27 +8.0	

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V

-46°	15.9	22	51	52	-46°	6.7 2
-46°	1.3	22	51	53	-46°	6.9
1.45		22	51	52	-46°	6.8
		22	51	35	-46°	5.8 2
		22	51	34	-46°	6.0
		22	51	34	-46°	5.9
		22	52	13	-46°	2.7 2
		22	52	14	-46°	2.9
		22	52	14	-46°	2.8
		22	50	42	-46°	8.9 vF vg psumb M RR
		22	50	43	-46°	9.1 v mF F * glob
		22	50	42	-46°	9.0
-46°	1.3	22	53	21	-45°	55.4 eF vS RR vmb M
-45°	59.6	22	53	18	-45°	55.5 glob.
1.44		22	53	20	-45°	55.4

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35

13	−18.6	14.3	10477	22 55 17
	7.4	−21.2	10473	22 52 48
	−74.4		22 53 −50.2 22 51 20.5	−109
	29.6		−46 56.2 −46 20.8	43
			1.27 +8.0	
852	−4.5	18.3		
	21.8	−17.0		
	−18.0			−26
	87.2			127
853	4.2	28.5		
	30.1	−7.0		
	16.8			25
	120.4			175
851	16.5	6.3	10473	22 52 48
	11.4	−7.0	10476	22 53 16
	66.0		22 51 20.5 22 51 49.2	95
	45.6		−46 20.8 −46 7.6	66
			+1.27 +8.0	
4	−6.3	−2.0	10489	22 58 25
	25.6	14.0	10477	22 55 17
	−25.2		22 56 57.7 22 53 50.2	−37
	102.4		−46 40.3 −46 56.2	147
			+1.27 +8.0	

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V

−46° 48.2	22	53	28	−46° 33.9	ccFvS
−46° 12.8	22	53	31	−46° 34.0	
1.46	22	53	30	−46° 34.0	
	22	54	51	−46° 29.9	ccFvS
	22	54	55	−46° 29.8	
	22	54	53	−46° 29.8	
	22	55	42	−46° 19.7	/
	22	55	43	−46° 19.8	
	22	55	42	−46° 19.8	
−46° 12.8	22	54	23	−46° 6.5	eFeS glob, ~~var.~~
−46° 59.6	22	54	22	−46° 6.6	
1.44	22	54	22	−46° 6.6	
−46° 32.3	22	57	48	−46° 34.3	eF X 1.3 ó/ iF
−46° 48.2	22	57	44	−46° 34.2	
1.45	22	57	46	−46° 34.2	

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40

927

4.5

=

18.0

10410 22 23 50

10303 22 25 8

22 22 19.4 22 23 36.5

−46 6.0 −45 53.0

+1.31 +7.6

926

−4.0 ~~22~~

3.6 −2.3

−16.0

14.4

10417 22 25 50

10303 22 25 8

22 24 19.0 22 23 36.5 −23

−46 56.8 −45 53.0 21

+1.31 +7.6

922

−1.6 3.1

12.2 −26.4

−6.4

48.8

10303 22 25 8

10302 22 23 51

22 23 36.5 22 22 20.3 −9

−45 53.0 −45 23.1 71

+1.31 +7.6

925

2.1 6.3 "

16.0 −23.1 "

8.4 12

64.0 93

621

−5.4 9.7 "

8.5 −19.9 "

−21.6 −32

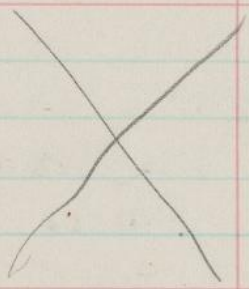
34.0 49

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1923phae.proj.2305S

✓

~~-46 58 H~~
~~-45° 45.4~~
1.46



eeF ▽S

Cannot see nebula
thru reticule to measure

-46°49.2	22	25	27	-46°	~~42.0~~	eF, 12 by, 15 @ 90° sp'n
-45° 45.4	22	25	29	-46°	47.7	
1.46	22	25	28	-46°	47.7	

-45° 45.4	22	24	59	-46°	42.3	eeFeS
-45° 15.5	22	25	2	-46°	41.9	
1.43	22	25	1	-46°	42.1	

	22	25	20	-46°	39.1	eeFeS
	22	25	24	-46°	38.6	
	22	25	22	-46°	38.8	

	22	24	36	-46°	35.7	eeFeS ~~D.H~~
	22	24	40	-46°	35.4	
	22	24	38	-46	35.6	

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45

620	−5.6	10.6	10303	22 25 8
	8.1	−18.9	10302	22 23 51
	−22.4		22 23 36.5 22 22 20.3	−32
	32.4		−45 53.0 −45 23.1	46
			+1.31 +7.6	
619	−2.1	10.4	"	
	11.7	−19.1	"	
	−8.4			−12
	46.8			67
924	2.7	13.2	"	
	16.4	−16.4	"	
	10.8			15
	65.6			94
920	−10.4	−2.5	10234	22 26 13
	14.6	21.6	10302	22 23 51
	−41.6		22 24 42.7 22 22 20.8	−59
	68.4		−44 59.6 −45 23.1	96
			+1.30 +7.6	
922	−15.2	−10.4	"	
	10.0	13.4	"	
	−60.8			−86
	40.9			56

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-45°	45.4	22	24 36	-45°	34.8	eeF eS
-45°	15.5	22	24 37	-45°	34.4	
1.43		22	24 36	-45°	34.6	
		22	24 56	-45°	35.0	eeF eS bM
		22	24 58	-45°	34.6	
		22	24 57	-45°	34.8	
		22	25 23	-45°	32.2	eeF eeS
		22	25 25	-45°	31.9	
		22	25 24	-45°	32.1	
13 -44°	52.0	22	25 14	-44°	54.5	eFeS
-45	15.5	22	25 29	-44°	53.9	
1.41		22	25 20	-44°	54.2	
		22	24 47	-45°	2.4	eeFeS
		22	24 47	-45°	2.1	
		22	24 47	-45°	2.2	

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1923phae.proj.2305S

140

50

161	4.5 −12.0 18.0 −48.0	−16.0 −2.3	10306 10309 22 24 57.4 22 26 30.9 −45 38.9 −45 54.7 +1.30 7.7	22 26 27 22 28 1 25 − 68
113	5.6 −11.0 22.4 −44.0	−14.9 0.7		33 − 62
110	2.2 −14.4 8.8 −57.6	−6.0 9.6		13 − 82
734	8.4 19.4 33.6 77.6	−0.8 −2.3	10309 10311 22 26 30.9 22 29 10.9 −45 54.7 −45 53.3 +1.30 +7.7	22 28 1 22 30 41 48 112
618	+0.3 +16.8 1.2 67.2	13.4 −2.6	10309 10306 22 26 30.9 22 24 57.4 −45 54.7 −45 38.9 +1.30 +7.7	22 28 1 22 26 27 2 96

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V

7	-45°	31.2	22	26	52	-45°	47.2	e F eS
1	-45°	47.0	22	26	53	-45°	47.2	
	1.43		22	26	52	-45°	47.2	
	"		22	26	59	-45°	46.1	e F vS
	"		22	26	59	-45°	46.3	
	"		22	26	59	-45°	46.2	
	"		22	26	40	-45°	37.2	e F eS bM
	"		22	26	39	-45°	37.4	
	"		22	26	40	-45°	37.3	
1	-45°	47.0	22	28	49	-45°	47.8	e F eS RR vM
41	-45°	45.6	22	28	33	-45°	47.9	
	1.44		22	28	41	-45°	47.8	
1	-45°	47.0	22	28	3	-45°	34.6	e e F vS R
27	-45°	31.2	22	28	3	-45°	33.8	
	1.43		22	28	3	-45°	34.2	

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142

55

614	5.3	− 0.2	10308	22	27 57
	−2.8	−3.7	10310	22	28 41
	21.2		22 26 26.9	22 27 10.9	30
	−11.2		−45 19.9	−45 16.6	− 16
			+1.30	+7.6	
916	2.3	− 13.1	10310	22	28 41
	−19.2	23.7	10311	22	30 41
	~~10~~ 9.2		22 27 10.9	22 29 10.9	13
	−76.8		−45 16.6	−45 53.3	− 109
			+1.30	+7.6	
617	7.8	−24.2	"	"	
	−13.8	12.7	"	"	
	31.2				44
	−55.2				− 78
613°	4.9	−11.7 x	10234	23	26 13
	5.2	~~4.2~~ 4.6	10305	22	26 10
	19.6		22 24 42.7	22 24 40.2	28
	20.8		−44 59.6	−45 15.2	30
			+1.30	+7.6	
612°	12.6	−12.3 x	"	"	
	13.0	~~3.6~~ 4.7	"	"	
	50.4				72
	52.0 ✓				74

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V

	-45 0	12.3	22	28	27	-45° 12.5	vF, 2 or bM
	-45°	9.0	22	28	25	-45° 12.7	
	1.42		22	28	26	-45° 12.6	
	-45°	9.0	22	28	54	-45° 22.1	eeFeS
	-45°	45.7	22	28	52	-45° 22.0	
	1.42		22	28	53	-45° 22.0	
			22	29	25	-45° 33.2	eFeS bM
			22	29	23	-45° 33.0	
			22	29	24	-45° 33.1	
	-44 0	52.0	22	26	41	-45° 3.7	vF, 3 or 1E @ 1E0°
	-45°	7.6	22	26	40	-45° 3.0	x ?
	1.42		22	26	40	-45° 3.4	
			22	26	25	-45° 4.3	eFeS 1bM
			22	26	24	-45° 2.9	
			22	26	24	-45° 3.6	

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CO

778	− 11.2 18.4 −44.8 73.6	−1.2 8.0	10312 10309 22 29 20.4 22 26 30.9 −45 45.8 −45 54.7 +1.30 7.7	22 30 50 22 28 1 − 64 105
779	− 11.7 18.0 −46.8 72.0	−0.3 9.0	〃 〃	− 67 102
777	− 7.5 22.2 −30.0 88.8	2.9 12.1	〃 〃	−40 127
115	− 1.6 27.8 − 6.4 111.2	2.5 11.6	〃 〃	− 9 158
766	− 9.5 20.2 − 38.0 80.8	−8.7 0.6	〃 〃	− 54 116

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V

-45° 38.1	22	29	46	-45°	39.3	/
-45° 47.0	22	29	46	-45°	39.0	
1.43	22	29	46	-45°	39.2	
"	22	29	43	-45°	38.4	/
"	22	29	43	-45°	38.0	
	22	29	43	-45°	38.2	
"	22	30	10	-45°	35.2	/
"	22	30	8	-45°	34.9	
	22	30	9	-45°	35.0	
"	22	30	41	-45°	35.6	e e F vs /E @ 0°
"	22	30	39	-45°	35.4	
	22	30	40	-45°	35.5	
"	22	29	56	-45°	46.8	2 16 11
"	22	29	57	-45°	47.6	
	22	29	56	-45°	47.2	

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65

780	−9.8	12.0	10312	22	30	50
	13.5	−17.0	10310	22	28	41
	−39.2		22 29 20.4 22 27 10.9		−56	
	54.0		−45 45.8 −45 166		77	
			+1.30 +7.7			
781	−4.8	15.3	〃			
	18.5	−13.7	〃			
	−19.2				−27	
	74.0				105	
103	−10.5	−3.7	10316	22	33	14
	14.7	14.9	10312	22	30	49
	−42.0		22 31 44.9 22 29 20.4		−60	
	58.8		−45 27.4 −45 45.8		84	
			+1.29 +7.7			
104	−16.7	−8.7	〃			
	8.4	9.9	〃			
	−66.8				−96	
	33.6				48	
105	−7.1	−4.5	10317	22	33	23
	19.6	1.0	10312	22	30	49
	−28.4		22 31 34.4 22 29 20.4		−41	
	78.4		−45 40.9 −45 45.8		112	
			+1.29 +7.7			

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−45°	38.1	22	29	54 −45°	26.1	/
−45°	8 9	22	29	58 −45°	25.9	
1.43		22	29	56 −45°	26.0	
		22	29	23 −45°	22.8	/
		22	29	26 −45°	22.6	
		22	29	24 −45°	22.7	
−45°	19.7	22	32	14 −45°	23.4	/
−45°	38.1	22	32	13 −45°	23.2	
1.43		22	32	14 −45°	23.3	
"		22	31	38 −45°	28 4	2
"		22	31	37 −45°	28.2	
		22	31	38 −45°	28.3	
−45°	33.2	22	32	42 −45°	37.7	/
−45°	38.1	22	32	41 −45°	37.1	
1 43		22	32	42 −45°	37.4	

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148

70

915	-11.3	-4.5	10317	22 33 23
	15.4	1.0	10312	22 30 49
	-45.2		22 31 54.4 22 29 20.4	-65
	61.6		-45 40.9 -45 45.8	88
			+1.29 +7.7	
37	-1.4	-9.0	"	
	25.3	-3.6	"	
	-5.6			-8
	101.2			144
38	0.1	-12.7	"	
	26.9	-7.3	"	
	0.4			1
	107.6			154
78 2	-10.3	-13.4	"	
	16.4	-8.0	"	
	-41.2			-59
	65.6			94
36	-7.9	-15.7	"	
	19.0	-10.2		
	-31.6			-45
	76.0			108

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V

-45° 33.2	22	32	18	-45°	37.7	1
-45° 38.1	22	32	17	-45°	37.1	
1.43	22	32	18	-45°	37.4	
"	22	33	15	-45°	42.2	2 c b M
"	22	33	13	-45°	41.7	
	22	33	14	-45°	42.0	
"	22	33	24	-45°	-45.9	2
"	22	33	23	-45°	45.4	
	22	33	24	-45°	45.6	
"	22	32	24	-45°	46.6	1
"	22	32	23	-45°	46.1	
	22	32	24	-45°	46.4	
"	22	32	38	-45°	48.9	2 c b M a/m *.
"	22	32	37	-45°	48.3	
	22	32	38	-45°	48.6	

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75

615	7.7 −4.8 30.8 − 19.2	11.2 7.3	10313 10315 22 29 53.4 22 31 49 −45 18.7 −45 14.9 +1.29 +7.7	22 31 22 22 33 18 44 −.27
616	5.1 −7.4 20.4 −29.6	7.6 3.8	" "	29 −42
593	−17.7 8.0 −70.8 32.0	5.6 11.3	10321 10315 22 33 29.4 22 31 4.9 −45 9.2 −45 14.9 +1.29 +7.7	22 34 58 22 32 34 −101 45
592	−16.3 9.4 −65.2 37.6	6.4 12.2	" "	−93 53
591	−10.8 14.7 −43.2 58.8	7.7 13.8	" "	−61 83

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−45°	11.0	22	32	6	−44°	59.8	2 cbM R
−45°	7.2	22	32	11	−44°	59.9	
	1.42	22	32	8	−44°	59.8	
"		22	31	47	−45°	3.4	2 bs
"		22	31	40	−45°	3.4	
		22	31	44	−45°	3.4	
−45°	1.5	22	32	17	−44°	55.9	2
−45°	7.2	22	32	19	−44°	55.9	
	1.42	22	32	18	−44°	55.9	
"		22	32	25	−44°	55.1	2 vmbM IE @180°
"		22	32	27	−44°	55.0	
		22	32	26	−44°	55.0	
"		22	33	57	−44°	53.8	1
"		22	33	57	−44°	53.4	
		22	33	57	−44°	53.6	

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8D

626	−3.8	−0.7	10321	22 34 58
	22.0	5.0	10315	22 32 34
	−15.2		22 33 29.4 22 31 4.9	−22
	88.0		−45 9.2 −45 14.9	124
			+1.29 +7.7	
627	−3.9	−2.0	"	
	21.7	3.7	"	
	−15.6			−22
	86.8			123
629	3.0	6.3	10321	22 34 58
	−1.8	−7.6	10323	22 35 23
	12.0		22 33 29.4 22 33 54.4	17
	−7.2		−45 9.2 −45 5.5	−10
			+1.29 +7.7	
628	5.5	6.5	"	
	0.6	−7.2	"	
	22.0			31
	2.4			3
630	9.2	7.2	"	
	4.6	−6.6	"	
	36.8			52
	18.4			26

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-45°	1.5	22	34	36	-45°	2.2
-45°	7.2	22	34	38	-45°	2.2
1.42		22	34	37	-45°	2.2
"		22	34	36	-45°	3.5
"		22	34	37	-45°	3.5
		22	34	36	-45°	3.5
-45°	1.5	22	35	15	-44°	55.2
-44°	57.8	22	35	13	-44°	55.4
1.42		22	35	14	-44°	55.3
"		22	35	29	-44°	55.0
"		22	35	25	-44°	55.0
		22	35	27	-44°	55.0
"		22	35	50	-44°	54.3
"		22	35	49	-44°	54.4
		22	35	50	-44°	54.4

ecF eS 1E @ 45°

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85

664	3.6 5.0 14.4 20.0	2.1 −11.5	10317 10316 22 31 54.4 22 31 44.9 −45 40.9 −45 27.4 1.29 +7.7	22 33 23 22 33 14 21 29	
663	4.1 5.5 16.4 22.0	7.8 −10.7	〃 〃	23 31	
106	−8.3 11.2 −33.2 44.8	+16.4 −8.5	10322 10316 22 33 31.9 22 27 10.9 −45 52.6 −45 16.6 +1.29 +7.7	22 35 1 33 4 22 28 40 −47 64	−4 −4
665	−8.6 10.6 −30.4 42.4	+10.6 −14.4	〃 〃	−43 61	
637	−0.6 18.8 −2.4 74.2	+8.8 −16.3	〃 〃	−3 106	

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V

-45°	33.2	22	33	44	-45°	31.1 ~~35.3~~	1
-45°	19.7	22	33	43	-45°	31.2	
1.43		22	33	44	-45°	31.2	
"		22	33	46	-45°	30.4	1
"		22	33	45	-45°	30.4	
		22	33	46	-45°	30.4	
-45°	44.9	22	34	14	-45°	28.5	2 blank
-45°	~~8.9~~ 19.4	22	34	8	-45°	28.2	
1.43		22	34	11	-45°	28.4	
"		22	34	18	-45°	34.3	2
"		22	34	5	-45°	34.1	
		22	34	12	-45°	34.2	
"		22	34	58	-45°	36.1	1
"		22	33	18	-45°	36.0	
		22	34	10	-45°	36.0	

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90

636	3.7	4.1	10324	22 35 34
	13.0	-17.2	10319	22 34 44
	14.8		22 34 6.4 22 33 15.9	21
	52.0		-45 40.1 -45 18.9	73
			1.28 +7.8	
635	-2.4	3.8	"	
	7.2	-17.3	"	
	-9.6			-14
	28.8			41
634	-2.1	1.4	"	
	7.0	-19.8	"	
	-8.4			-12
	28.0			39
46	-6.7	21.4	10433	22 37 44
	15.7	-2.8	10324	22 35 34
	-26.8	24.2	22 36 14.6 22 34 6.4	-38
	62.8		-46 4.3 -45 40.1	89
			4.29 +7.7	
45	-6.6	14.8	"	
	16.0	-9.5	"	
	-26.4			-37
	64.0			91

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-45°	32.3	22	35	55	-45° 28.2	2 v m b M x ?
-45°	11.1	22	35	57	-45° 28.3	
1.42		22	35	56	-45° 28.2	
"		22	35	20	-45° 28.5	2 v m b M x ?
"		22	35	25	-45° 28.4	
		22	35	22	-45° 28.4	
"		22	35	22	-45° 30.9	/
"		22	35	23	-45° 30.9	
		22	35	22	-45° 30.9	
-45°	56.6	22	37	6	-45° 35.2	2 c b M spin E @ 50°
-45°	32.3	22	37	3	-45° 35.1	
1.42		22	37	4	-45° 35.2	
"		22	37	7	-45° 41.8	2 c b M spin E @ 35°
"		22	37	5	-45° 41.8	
		22	37	6	-45° 41.8	

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95

48	− 08	7.5	10433	22 37 44	
	21.6	−16.7	10324	22 35 34	
	− 3.2.		22 36 14.6	22 34.64	− 5
	86.4		−46 4.3	−45 40.1	123
			+1.29	+7.7	
49	− 0.7	5.5	"	"	
	21.8	−18.8	"	"	
	− 2.8				− 4
	87.2				124
638	− 10.0	7.7	"	"	
	12.6	−16.4	"	"	
	−40.0				−57
	50.4				72
639	− 12.6	13.2	"	"	
	10.0	−10.9	"	"	
	− 50.4				− 72
	40.0				57
640	− 15.1	17.8	"	"	
	7.4	−6.4	"	"	
	−60.4				− 86
	29.6				42

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	-46°	56.6	22	37	39	-45°	49.1	1 1E@180° 6M spir
	-45°	32.3	22	37	37	-45°	49.0	
	1.42		22	37	38	-45°	49.0	
			22	37	40	-45°	51.1	vF vim 6M RR .7d
			22	37	38	-45°	51.1	spir
			22	37	39	-45°	51.1	
			22	36	47	-45°	48.9	2 16M
			22	36	46	-45°	48.7	
			22	36	46	-45°	48.8	
			22	36	32	-45°	43.4	2 16M
			22	36	31	-45°	43.2	
			22	36	32	-45°	43.3	
			22	36	18	-45°	38.8	2 16M
			22	36	16	-45°	38.7	
			22	36	17	-45°	38.8	

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100

659	8.4	5.9	10433	22 37 44.4	
	− 6.4	−26.7	10329	22 39 9	
	33.6		22 36 14.6	22 37 40.4	48
	−25.6		−46 4.3	−45 31.9	− 36
			+1.29	+7.7	
658	9.6	11.3	"	"	
	− 5.4	−21.5	"	"	
	38.4				55
	−21.6				− 31
47	0.9	~~14.2~~ 13.8	"	"	
	−14.1	−18.9	"	"	
	3.6				5
	−56.4				− 80
632	5.8	14.2	"	"	
	− 9.0	−18.4	"	"	
	23.2				33
	−36.0				− 51
635	5.7	15.7	"	"	
	− 9.2	−16.7	"	"	
	22.8				32
	−36.8				− 52

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-45°	56.6	22	38	32	-45°	50.7	e e F v S 16/11.9/0 b.
-45°	24.2	22	38	33	-45°	50.9	
1.42		22	38	32	-45°	50.8	
		22	38	39	-45°	45.3	1
		22	38	38	-45°	45.7	
		22	38	38	-45°	45.5	
		22	37	49	-45°	42.8	2
		22	37	49	-45°	43.1	
		22	37	49	-45°	43.0	
		22	38	17	-45°	42.4	1
		22	38	18	-45°	42.6	
		22	38	18	-45°	42.5	
		22	38	16	-45°	40.9	1
		22	38	17	-45°	40.9	
		22	38	16	-45°	40.9	

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5

414	6.8	17.4	10433	22 37 44
0	-8.3	-15.3	10329	22 39 9
	27.2		22 36 14.6 22 37 40.4	39
	-33.2		-46 4.3 -45 31.9	-47
			+1.29 +7.7	
101	~~7.2~~ 6.8	18.7	"	
	-7.6	-14.0	"	
	27.2			39
	-30.4			-43
651	14.0	21.9	"	
	-0.9	11.0	"	
	56.0			79
	-3.6			-5
653	-6.2	7.4	10332	22 40 18
	6.7	-12.0	10329	22 39 9
	-24.8		22 38 48.5 22 37 40.4	-36
	26.8		-45 51.4 -45 31.9	39
			+1.29 +7.7	
652	-6.3	8.3	"	
	6.7	-11.0	"	
	-17.2			-25
	26.8	✓		39
	✓			

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-45°	56.6	22	38	23	-45°	39.2
-45°	24.2	22	38	22	-45°	39.5
1.42		22	38	22	-45°	39.4
"		22	38	23	-45°	37.9
"		22	38	26	-45°	38.2
		22	38	26	-45°	38.0
"		22	39	3	-45°	34.7
"		22	39	4	-45°	35.2
		22	39	4	-45°	35.0
-45°	43.7	22	39	42	-45°	36.3
-45°	24.2	22	39	48	-45°	36.2
1.44		22	39	45	-45°	36.2
		22	39	53	-45°	35.4
		22	39	48	-45°	35.2
		22	39	50	-45°	35.3

degrees

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1923phae.proj.23055

10

650	−7.8	10.6	10332	22	40	18
	4.2	−8.9	10329	22	39	9
	−31.2		22 38 48.5	22 37 40.4		−45
	16.8		−45 51.4	−45 31.9		24
			+1.29	+7.7		
648	−5.8	10.2				
	6.1	−9.4				
	−23.2					−33
	24.4					35
649	−5.9	9.6	"			
	6.0	−9.8	"			
	−23.6					−34
	24.0					34
848	1.9	15.2	"			
0	13.2	−4.4				
	~~8.8~~					
	7.6					1
	~~52.8~~					~~47~~
	~~32.8~~					76
57	−2.6	21.3	"			
	9.6	+1.7	"			
	−10.4					−15
	38.4					55

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1923phae.proj.2305S

V

-45°	43.7	22	39	33	-45°	33.1 /
-45°	24.2	22	39	33	-45°	33.1
1.44		22	39	33	-45°	33.1
		22	39	45	-45°	33.5 /
		22	39	44	-45°	33.6
		22	39	44	-45°	33.6
		22	39	4	-45°	34.1 / a/m x vm bM
		22	39	3	-45°	34.0
		22	39	4	-45°	34.0
		22	40	19	-45°	28.5 / iF
		22	40	25	-45°	28.6
		22	40	21	-45°	28.6
		22	40	3	-45°	22.4 2 vm bM
		22	40	4	-45°	22.5 a/m x
		22	40	4	-45°	22.4

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1923phae.proj.23055

15

846	1.8	19.7	10337	22 40 18
	13.8	+ 0.1	10329	22 39 9
	7.2		22 38 48.5 22 37 40.4	10
	55.2		-45 51.4 -45 31.9	79
			1.29 +7.7	
147	19.0	3.6	10433	22 37 44
	- 7.6	- 9.4	10332	22 40 18
	76.0		2236 14.6 22 38 48.5	109
	-30.4		-46 4.3 -45 51.4	- 44
			+1.29 +7.7	
146	~~19~~.6	5.0	"	
	- 7.1	- 8.0	"	
	78.4			113
	-28.4			- 41
100	18.5	10.3	"	
	- 8.3	- 2.7	"	
	74.0			106
	-33.2			- 48
99	16.4	10.3	"	
	-10.2	- 2.7	"	94
	65.6			- 39
	-40.8			

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-45°	43.7	22	40	28	-45°	24.0	1
-45°	24.2	22	40	28	-45°	24.1	
1.44		22	40	28	-45°	24.0	
-45°	56.6	22	39	33	-45°	53.0	1
-45°	43.7	22	39	34	-45°	53.1	
1.43		22	39	34	-45°	53.0	
		22	39	37	-45°	51.6	1
		22	39	37	-45°	51.7	
		22	39	37	-45°	51.6	
		22	39	30	-45°	46.3	1
		22	39	30	-45°	46.4	
		22	39	30	-45°	46.4	
		22	39	18	-45°	46.3	2
		22	39	19	-45°	46.4	
		22	39	18	-45°	46.4	

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1923phae.proj.23055

20

654	16.4 −10.1 65.6 −40.4	11.6 −1.4	10433 10332 22 36 14.6 22 38 48.5 −46 4.3 −45 51.4 +1.29 +7.7	22 37 44 − 22 40 18 − 94 −58
59	13.4 −10.4 53.6 −42.0	−5.8 −3.0	10332 10338 22 38 48.5 22 41 2.0 −45 51.4 −45 54.5 +1.29 +7.7	22 40 18 − 22 42 31 − 77 −60
60	11.4 −12.3 45.6 −49.2	−4.6 −1.8	" "	66 −71
597	14.1 −9.6 56.4 −38.4	−4.0 −1.3	" "	81 −55
61	1.8 −21.8 7.2 −87.2	−6.1 −3.3	"	10 −126

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1923phae.proj.23055

	-45° 56.6	22	39 18	-45° 45.0	eFeeS
	-45° 43.7	22	39 20	-45° 45.1	
	1.44	22	39 19	-45° 45.0	
	-45° 43.7	22	41 35	-45° 49.5	ee FeS
	-45° 46.8	22	41 31	-45° 49.8	
	1.44	22	41 33	-45° 49.6	
		22	41 24	-45° 48.3	/
		22	41 20	-45° 48.6	
		22	41 22	-45° 48.4	
		22	41 39	-45° 47.7	z bMalm x
		22	41 36	-45° 48.1	
		22	41 38	-45° 47.9	
		22	40 28	-45° 49.8	z x² bM
		22	40 25	-45° 50.1	
		22	40 26	-45° 50.0	

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1923phae.proj.23055

170

25

845	−1.6	−4.4	10338	22 42 31
	−20.3	−12.0	10342	22 44 19
	−6.4		22 41 2.0 22 42 50.0	− 9
	−81.2		−45 54.5 −45 047.0	− 117
			+1.29 +7.7	
844	1.6	−2.7	"	
	−17.3	−10.5	"	
	6.4			9
	−59.2			−85
843	2.0	−2.4	"	
	−16.8	−10.0	"	
	8.0			11
	−67.2			−97
63	4.6	−1.3	"	
	−14.2	−8.8	"	
	18.4			26
	−56.8			−82
64	21	3.0	"	
	−16.6	−4.7	"	
	8.4			12
	−66.4			−96

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1923phae.proj.23655

31	-45°	46.8	22	42	22	-45° 51.2 /
9	-45°	39.3	22	42	22	-45° 51.3
	1.44		22	42	22	-45° 51.2
			22	42	40	-45° 49.5 /
			22	42	44	-45° 49.8
			22	42	42	-45° 49.6
			22	42	42	-45° 49.2 eeF eS
			22	42	42	-45° 49.3
			22	42	42	-45° 49.2
			22	42	57	-45° 48.1 /
			22	42	57	-45° 48.1
			22	42	57	-45° 48.1
			22	42	43	-45° 43.8 eF eS o/m x
			22	42	43	-45° 44.0 umbM
			22	42	43	-45° 43.9

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1923phae.proj,2305S

30

65	17.8 −15.2 71.2 −60.8	0.2 −1.0	10335 10342 22 39 41.0 22 42 50.0 −45 47.9 −45 47.0 +1.28 +7.8	22 41 9 22 44 19 102 −87
96	20.4 −12.6 8 1.6 −50.4	2.0 +0.7	"	117 −72
66	3.8 −29.6 15.2 −118.4	−3.2 −0.6	10342 10352 22 42 50.0 22 45 59.6 −45 47.0 −45 48.7 +1.27 +7.9	22 44 19 22 47 27 22 −168
67	4.6 −29.1 18.4 −116.4	−4.6 −3.0	"	26 −165
68	4.5 −28.8 18.0 −115.2	−5.0 −3.5	"	25 −164

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1923plate.proj : 29055

-45° 40.1	22	42	51	-45°	39.9	1
-45° 39.3	22	42	52	-45°	40.3	
1.43	22	42	52	-45°	40.1	
	22	43	6	-45°	38.1	1
	22	43	7	-45°	38.6	
	22	43	6	-45°	38.4	
-45° 39.3	22	44	41	-45°	42.5	~ vmbM defect?
-45° 40.8	22	44	39	-45°	41.4	
1.43	22	44	40	-45°	41.9	
	22	44	45	-45°	43.9	1
	22	44	42	-45°	43.8	
	22	44	44	-45°	43.8	
	22	44	44	-45°	44.3	eFeS 16M
	22	44	45	-45°	44.3	
	22	44	44	-45°	44.3	

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1923phae.proj.23055

35

80	11.5	-10.4	10347	22 44 19
	-21.7	-8.9	10352	22 47 27
	46.0		22 42 50.0 22 45 59.4	65
	-86.8		-45 47.0 -45 48.7	-124
			+1.27 +7.9	
81	10.4	-10.8	"	
	-22.8	-9.2	"	
	41.6			59
	-91.2			-130
53	8.3	-11.0	"	
	~~22.8~~	-9.6	"	
	-24.9			
	33.2			47
	-99.6			-142
85	9.5	-11.4	"	
	~~23.8~~	-9.8	"	
	~~24.9~~			
	38.0			54
	-95.2			-136
70	24.2	-10.8	"	
	-8.6	-8.2	"	
	96.8			138
	-34.4			-49

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1923phao.proj.29055

V

19	-45° 39.3	22	45	24	-45° 49.7	2 16M
7	-45° 40.8	22	45	23	-45° 49.7	
	1.43	22	45	24	-45° 49.7	
		22	45	18	-45° 50.1	2 16M
		22	45	17	-45° 50.0	
		22	45	18	-45° 50.0	
		22	45	6	-45° 50.3	1
		22	45	5	-45° 50.4	
		22	45	6	-45° 50.4	
		22	45	13	-45° 50.7	2 16M 1E@ 175°
		22	45	11	-45° 50.6	
		22	45	12	-45° 50.6	
		22	46	37	-45° 50.1	2 16M
		22	46	38	-45° 49.0	
		22	46	38	-45° 50.0	

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1923phae.proj.23055

40

842	+0.1	-13.0	10340	22 43 7
	-12.0	18.6	10342	22 44 19
	+0.4		22 41 40.0 22 42 50.0	1
	-48.0		-45 15.5 -45 47.0	-68
			+1.27 +7.9	
94	-6.6	-15.0	"	
	-18.8	16.7	"	
	-26.4			-38
	-75.2			-108
93	1.0	16.7	"	
	-11.2	14.9	"	
	4.0			5
	-44.8			-64
838	6.2	-19.2	"	
	-5.2	11.6	"	
	24.8			35
	-20.8			-30
840	7.0	-20.6	"	
	-5.8	10.7	"	
	28.0			40
	-23.2			-33

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1923phae..proj..23055

V

-45	7.6	22	43	8	-45°	20.6
-45	39.1	22	43	11	-45°	20.5
1.43		22	43	10	-45°	20.6
		22	42	29	-45°	22.6
		22	42	31	-45°	22.4
		22	42	30	-45°	22.5
		22	43	12	-45°	24.3
		22	43	15	-45°	24.2
		22	43	14	-45°	24.2
		22	43	42	-45°	26.8
		22	43	49	-45°	27.4
		22	43	46	-45°	27.1
		22	43	47	-45°	28.2
		22	43	46	-45°	28.4
		22	43	46	-45°	28.3

1 spir E @ 45° bM

eF cS RR cbM.

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1923phae.proj.2305S

45

95	0.2	−20.4	10340	22 43 7
	−12.0	10.1	10342	22 44 19
	8.8		22 41 40.0 22 42 50.0	0
	−46.0		−45 15.5 −45 48.7	−68
			1.27 +7.9	
918	13.1	−18.2	"	
	1.0	13.3	"	
	52.4			75
	4.0			5
37	15.9	−12.1	"	
	1.7	15.1	"	
	63.6			
	6.8			
836	14.0	−16.0	"	
	1.6	15.6	"	
	56.0			80
	6.4			9
834	−1.5	−8.8	10344	22 45 19
	9.3	14.4	10342	22 44 19
	−6.0		22 43 51.5 22 42 50.0	−8
	37.2		−45 23.9 −45 48.7	53
			+1.27 +7.9	

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1923phae.proj.23055

V

-45° 7.6	22	43	7	-45°	28.0	/ c b M
-45° 39.1	22	43	11	-45°	29.0	
1.43	22	43	9	-45°	28.5	
	22	44	22	-45°	25.8	/
	22	44	24	-45°	25.8	
	22	44	23	-45°	25.8	
	22	44	27	-45°	23.6	/
	22	44	28	-45°	23.5	
	22	44	28	-45°	23.6	
-45° 16.0	22	45	11	-45°	24.8	/
-45° 39.3	22	45	12	-45°	24.9	
1.43	22	45	12	-45°	24.8	

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50

835	-1.7	-6.2	10344	22 45 19
	8.8	17.2	10342	22 44 19
	-6.8		22 43 51.5 22 42 50.0	-90
	35.2		-45 23.9 -45 46.7	50
			+1.27 +7.9	
828	8.3	-12.5	10341	22 44 1
	-5.6	6.4	10344	22 45 19
	33.2		22 42 34.0 22 43 51.5	47
	-24		-45 5.0 -45 23.9	-32
			+1.27 +7.9	
827	14.9	-7.6	"	
	1.0	11.4	"	
	59.6			85
	4.0			5
483	6.1	-4.0	"	
	-7.8	14.9	"	
	24.4			35
	-31.2			-45
484	10.6	-3.7	"	
	-3.3	15.2	"	
	42.4			61
	-13.2			-19

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-45°	16.0	22	45 9	-45°	22.2	1
-45°	39.3	22	45 9	-45°	22.1	
1.43		22	45 9	-45°	22.2	
-44°	57.1	22	44 48	-45°	9.6	eF vS E@ 185° spin
-45°	16.0	22	44 47	-45	9.6	
1.42		22	44 48	-45	9.6	
		22	45 26	-45°	4.7	eF eS 9/06
		22	45 24	-45°	4.6	
		22	45 25	-45°	4.6	
		22	44 36	-45°	1.1	1
		22	44 34	-45°	1.1	
		22	44 35	-45°	1.1	
		22	45 2	-45°	0.8	1
		22	45 0	-45°	0.8	
		22	45 1	-45°	0.8	

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55

485	26.0	-11.0	10262	22 40 58
	-17.9	-2.6	10343	22 44 39
	104.0		22 39 24.8 22 43 31.0	146
	71.6		-44 56.5 -45 3.9	-101
			+1.28 +7.8	
486	21.6	-7.5	"	
	-22.3	0.9	"	
	86.4			122
	-89.3			-126
489	11.7	-8.0	"	
	~~32.1~~			
	~~22.1~~	0.1	"	
	46.8			66
	128.4			-181
92	14.4	-7.8	10340	22 43 7
	-8.8	0.4	10344	22 45 19
	57.6		22 41 40.0 22 43 51.5	82
	-35.2		-45 15.5 -45 23.9	-50
			+1.27 +7.9	
863	7.2	-5.8	"	
	-16.0	2.1	"	
	28.8			41
	-64.0			-90

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✓

	−44°	48.7	22	43	19	−44° 59.7	2 c b M
	−44°	56.1	22	43	18	−44 58.7	
	1.41		22	43	18	−44 59.2	
			22	42	55	−44° 56.2	/
			22	42	53	−44° 57.0	
			22	42	54	−44° 56.6	
			22	41	59	−44° 56.7	/
			22	41	58	−44° 56.0	
			22	41	58	−44° 56.4	
	−45°	7.6	22	44	29	−45° 15.4	2
	−45°	16.0	22	44	29	−45° 15.6	
	1.42		22	44	29	−45° 15.5	
			22	43	48	−45° 13.4	
			22	43	49	−45 13.9	/
			22	43	48	−45 13.6	

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60

98	11.2	-21.2	10262	22 40 53	-4
	-11.0	-2.0	10340	22 43 7	-4
	44.6		22 39 24.8	22 41 40.6	64
	-44.0		-44 56.5	-45 15.5	-62
			+1.28	+7.8	
841	15.0	-21.0	"		
	-7.3	-2.4	"		
	60.0				85
	-29.2				-41
847	12.9	-16.4	"		
	-9.4	2.6	"		
	51.6				73
	-37.6				-53
459	11.8	-8.3	"		
	-10.7	10.8	"		
	47.2				67
	-42.8				-61
833	13.4	-4.8	10352	22 47 27	-4
	-12.8	-28.3	10362	22 49 57	-4
	53.6		22 45 59.6	22 48 29.6	77
	-51.2		-45 48.7	-45 25.3	-73
			+1.27	+7.9	

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3	-44°	48.7	22	41	57	-45° 9.9	ceF vS
	-45°	7.7	22	42	5	-45° 9.7	
	1.42		22	42	1	-45° 9.8	
			22	42	18	-45° 9.7	/
			22	42	26	-45° 10.1	
			22	42	22	-45° 9.9	
			22	42	6	-45° 5.1	/
			22	42	14	-45° 5.1	
			22	42	10	-45° 5.1	
			22	42	0	-44° 57.0	/
			22	42	6	-44° 56.9	
			22	42	3	-44° 57.4	
27	-45°	40.8	22	48	44	-45° 45.6	/
57	-45°	17.4	22	48	44	-45° 45.7	
	.43		22	48	44	-45° 45.6	

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1923phae.proj.23055

65

830	9.6	4.2	10352	22	47	27
	-16.4	-19.5	10362	22	49	57
	38.4		22 45 59.6	22 48 29.6		55
	-65.6		-45 48.7	-45 25.3		-94
			+1.27	+7.9		
89°	~~-10.6~~ ~~-12.4~~	-6.0	10351	22	47	13
	3.9	2.7	10345	22	45	50
	-42.4		22 45 45.6	22 44 23.1		-61
	15.6		-45 31.2	-45 39.5		22
			+1.27	+7.9		
90°	~~-12.4~~ ~~-10.6~~	-0.8 -5.7	"	"		
	2.1	7.3				
	-49.6					-71
	8.4					12
829°	3.0	-4.4				
	17.6	4.0				
	12.0					17
	69.4					99

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1923phae.proj.23055

7	-45°	40.8	22	48	22	-45° 36.6	1
7	-45°	17.4	22	48	23	-45° 36.9	
	1.43		22	48	22	-45° 36.8	
3	-45°	23.3	22	46	12	-45° 29.3	eF vS gbM spin
0	-45°	31.6	22	46	12	-45° 28.9	E@87°
	1.43		22	46	12	-45° 29.1	
	"		22	46	2	-45° 24.1	1 spin E@40°
	"		22	46	2	-45° 24.3	16M.
			22	46	2	-45° 24.2	
	"		22	47	30	-45° 27.7	1 R.
	"		22	47	29	-45° 27.6	
			22	47	30	-45° 27.6	

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70

217	9.2	1.4	10351	22 47	13
	-19.6	-4.6	10362	22 49	57
	36.8		22 45 45.6 22 48 29.6	52	
	-78.4		-45 31.2 -45 25.3	-111	
			1.27 +7.9		
219	11.6	6.0	"		
	-17.0	0.0	"		
	46.4			66	
	-68.0			-96	
115	10.0	-0.8	"		
	-18.8	-7.1	"		
	40.0			57	
	-70.8			-101	
214	15.1	-4.0	"		
	-13.8	-10.1	"		
	60.4			86	
	-55.2			-78	
213	16.7	1.7	"		
	-12.0	-4.5	"		
	66.8			95	
	-48.0			-68	

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V

3	-45°	23.3	22	48	5	-45° 21.9	1
7	-45	17.4	22	48	6	-45° 22.0	
	1.42.		22	48	6	-45° 22.0	
	"		22	48	19	-45° 17.3	1
	"		22	48	21	-45° 17.4	
			22	48	20	-45° 17.4	
	"		22	48	10	-45° 24.1	1
	"		22	48	16	-45° 24.5	
			22	48	13	-45° 24.3	
	"		22	48	39	-45° 27.3	1
	"		22	48	39	-45° 27.5	
			22	48	39	-45° 27.4	
	"		22	48	48	-45° 21.6	2 gpsumbM almt.
	"		22	48	49	-45° 21.9	
			22	48	48	-45° 21.8	

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1923phae.proj,23055

75

471	0.4	0.9	10349	22 46 38
	+18.2	−4.0	10343	22 44 58
	1.6		22 45 10.6 22 43 31.0	2
	+72.8		−45 10.0 −45 3.9	+103
			1.27 +7.9	
341	−6.2	5.0	"	
	+11.6	−1.0	"	
	−24.8			−35
	+46.4			+65
840	−5.0	−14.9	10358	22 48 10
	4.9	16.5	10351	22 47 13
	−20.0		22 46 42.9 22 45 45.6	−28
	19.6		−45 0.1 −45 31.2	28
			1.27 +7.9	
481	−2.5	−12.7	"	
	7.3	18.7	"	
	−10.0			−14
	29.2			41
482	−0.2	−13.9	"	
	9.6	17.4	"	
	−0.8			−1
	38.4	✓		68

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f	-45°	2.1	22	46 40	-45°	1.2	eF vs E@ 50° bM
	-44°	5-6.0	22	46 41	-45°	0.0	spin
	1.41		22	46 40	-45°	0.6	
	"		22	46 3	-44°	57.0	2 vmbM
	"		22	46 3	-44	57.0	
			22	46 3	-44°	57.0	
0	-44°	5-22	22	47 42	-45°	7.1	1 9/06
3	-45°	23.3	22	47 41	-45°	6.8	
	1.41		22	47 42	-45°	7.0	
	"		22	47 56	-45°	4.9	cF eeS
	"		22	47 54	-45°	4.6	
			22	47 55	-45°	4.8	
	"		22	48 9	-45°	6.1	1
	"		22	48 21	-45°	5.9	
			22	48 15	-45°	6.0	

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80

475	4.5	-8.5	10358	22 46 10	
	14.3	23.0	10351	22 47 03	
	18.0		22 46 42.9 22 45 45.6	25	
	47.2		-45 0.1 -45 31.2	67	
			+1.27 +7.9		
473	15.0	-17.8	10358	22 48 10	
	+1.2	+7.5	10362	22 49 17	
	60.0		22 46 42.9 22 48 29.6	85	
	4.8		-45 0.1 -45 25.3	67	
			+1.27 +7.9		
474	14.6	-18.1	"		
	+0.1	7.3	"		
	58.4			82	
	0.4			1	
475	13.5	-18.1	"		
	-0.3	7.3	"		
	54.0			76	
	-1.2			-2	
476	12.0	-15.8	"		
	-2.0	9.5	"		
	48.0			67	
	-8.0			-11	

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V

-44°	52.2	22 48 35	-45°	0.7	eF vS 1bM def. spir.	
-45°	23.3	22 48 20	-45°	0.3		
1.41		22 48 28	-45°	0.5		
-45°	52.2	22 49 35	-45°	10.0	2	
-45	17.4	22 49 24	-45°	9.9		
1.41		22 49 30	-45°	10.0		
		22 49 32	-45°	10.3	1	
		22 49 18	-45°	10.1		
		22 49 25	-45°	10.2		
		22 49 26	-45°	10.3	1	
		22 49 19	-45°	10.1		
		22 49 22	-45°	10.2		
		22 49 17	-45°	8.0	1	
		22 49 6	-45°	7.9		
		22 49 12	-45°	8.0		

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85

860

21.2
−14.2
2.4

84.8
−56.8
7.6

−7.7
−12.0

1035.8
1028.5

22 46 42.9 22 50 15.4
−45 0.1 −44 55.3
+1.27 +7.9

22 48 10
22 51 42

120
−80

478

22.3
−15.2
3.6

89.2
−66.8
14.4

−8.4
−13.2

"
"

126
−85

497

37.5
+9.2

0.5
150.0
76.8

2.0

−13.0
−17.4

"
"

210
108

2

831°

22.4
−4.0

89.6
−16.0

8.7
−13.4

1035.2
1036.2

22 45 59.6 22 48 29.6
−45 48.7 −45 25.3
+1.27 +7.9

22 47 27
22 49 57

128
−22

832°

23.4
−2.8

93.6
−11.2

9.2
−13.8

"
"

134
−16

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1923phae..proj.2305S

V

	-44° 52.2	22	50	10	-44° 59.9	2
	-44° 47.4	22	50	22	-44° 59.4	
	1.41	22	50	16	-44° 59.6	
	1.40					
		22	50	16	-45° 0.6	1
		22	50	17	-45° 0.6	
		22	50	16	-45° 0.6	
		22	51	40	-45° 5.2	1
		22	51	44	-45° 4.8	
		22	51	42	-45° 5.0	
	-45° 40.8	22	49	35	-45° 32.1	1
	-45° 17.4	22	49	35	-45° 30.8	
	1.43	22	49	35	-45° 31.5	
		22	48	41	-45° 31.6	1
		22	48	41	-45° 31.2	
		22	48	41	-45° 31.4	

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90

261	28.4	18.3	10352	22 47 27
	2.0	-6.0	10362	22 49 57
	113.6		22 45 59.6 22 48 29.6	163
	8.0		-45 48.7 -45 25.3	11
			+1.27 +7.9	
~~21~~ 212°	29.0	23.0	"	
	2.8	-0.6 2	"	
	~~14.9~~ 37.9			
	116.0			165
	11.2			16
830	9.7	4.0	"	
	-16.4	-19.6	"	
	38.8	~~23.6~~		55
	-65.6			-94
823°	4.9	3.0	10363	22 51 12
	3.8	~~23.3~~ ~~26.0~~ 2	10364	22 51 17
	19.6		22 49 46.1 22 49 50.9	28
	15.2		-45 53.3 -45 24.3	22
			+1.26 +8.0	
207°	0.1	5.7	"	
	-1.1	~~-16.4~~ 2	"	
		-23.3		
	0.4			1
	-4.4			-6

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1923phot.proj.23055

-45°	40.8	22	50 10	-45°	22.5	eF eSc bM
-45°	17.4	22	50 8	-45°	23.4	
1.43		22	50 9	-45°	23.0	
"		22	50 12	-45°	17.8	2 g/b
"		22	50 13	-45°	18.0	
		22	50 12	-45°	17.9	
"		22	48 22	-45°	36.8	1
"		22	48 23	-45°	37.0	
		22	48 22	-45°	36.9	
-45°	45.3	22	51 40	-45°	42.3	eF eS psv mb M
-45°	16.3	22	51 39	-45°	42.3	RR
1.44		22	51 40	-45°	42.3	
"		22	51 13	-45°	39.6	eF ee S bM IE @ 35°
"		22	51 11	-45°	39.6	
		22	51 12	-45°	39.6	

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1923phae.proj.2305S

95

511	0.5 -0.5 2.0 -2.0	16.7 -12.3	10363 10364 22 49 46.1 22 49 50.9 -45 53.3 -45 24.3 +1.26 +8.0	22 51 12 22 51 7 2 -2
9/	9.7 -0.4 38.8 -1.6	-3.9 -4.0	10364 10367 22 49 50.9 22 50 49.3 -45 24.3 -45 24.1 +1.26 +8.0	22 51 7 22 52 15 56 -2
208	19.1 -15.1 76.4 -60.4	4.9 -12.1	10363 10373 22 49 46.1 22 52 59.9 -45 53.3 -45 36.4 +1.26 +8.0	22 51 12 22 54 26 110 -87
824	24.3 -10.0 97.2 -40.0	9.0 -8.0	" " 	 140 -58
825	30.9 -3.5 123.6 -14.0	8.7 -8.0	" " 	 178 -20

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V

-45°	45.3	22	51	14	-45°	28.6	eFcS RR 1bM
-45°	16.3	22	51	5	-45°	28.6	
1.49		22	51	10	-45°	28.6	
-45°	16.3	22	52	3	-45°	20.2	eFS cbM Ht. ▽ shaped
-45°	16.1	22	52	13	-45°	20.1	
1.43		22	52	8	-45°	20.2	
-45°	45.3	22	53	2	-45°	40.4	2 cbM
-45°	28.4	22	52	59	-45°	40.5	
1.44		22	53	0	-45°	40.4	
		22	53	32	-45°	36.3	eFceS cbM
		22	53	28	-45°	36.4	
		22	53	30	-45°	36.4	
		22	54	10	-45°	36.6	1
		22	54	6	-45°	36.4	
		22	54	8	-45°	36.5	

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200

100

479	2.0	−14.5	10285	22 51 42
	4.0	14.7	10364	22 51 18
	8.0		22 50 15.4 22 49 50.9	11
	16.0		−44 55.3 −45 24.3	23
			+1.27 +7.9	
210	4.4	+3.1	10380	22 56 ~~+5~~ 4.6
	−10.0	−2.8	10375	22 55 25
	11.6		22 ~~49 50.9~~ 55 19.4 22 53 58.4	25
	−40.0		−45 ~~24.3~~ 58.6 −45 52.5	−57
			+1.27 +7.9	
509	−5.4	−1.7	10375	22 55 25
	4.5	−18.0	10373	22 54 27
	−21.6		22 53 58.4 22 52 59.9	−31
	18.0		−45 52.5 −45 36.4	25
			+1.27 +7.9	
626	−1.3	2.2	"	
	8.8	−13.8	"	
	−5.2			−7
	35.2			51
849	−0.2	−16.5	10375	22 54 27
	−1.0	6.6	10373	22 54 27
	−0.8		22 52 55.9 22 52 59.9	−1
	−4.0		−45 13.6 −45 36.4	−5
	✓	✓	+1.27 +7.9	

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−44°	47.4	22	51	53	−45°	1.9	1
−45°	16.4	22	51	41	−45°	1.7	
1.44		22	51	47	−45°	1.8	
−45°	~~16.4~~ 50.7	22	55	49	−45°	47.6	eeF eS 16 M
−45°	44.6	22	55	50	−45°	47.4	
1.43		22	55	50	−45°	47.5	
−45°	44.6	22	54	44	−45°	46.3	eF .2 x .1' @ 85° bM
−45°	28.5	22	54	52	−45°	46.5	spin
1.44		22	54	48	−45°	46.4	
		22	55	18	−45°	42.4	eF 3 x .1' @ 90° bM
		22	55	18	−45°	42.3	spin.
		22	55	18	−45°	42.4	
−45°	5.7	22	54	26	−45°	22.2	1
−45°	28.5	22	54	22	−45°	21.9	
1.42		22	54	24	−45°	22.0	

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202

5

450	−7.4	7.6	10372	22 54 27	−4
	1.6	−22.2	10289	22 53 33	−4
	−29.6		22 52 55.9 22 52 6.0	−42	
	6.4		−45 13.6 −44 44.0	9.0	
			+1.27 +7.9		
850	3.3	11.0			
	12.2	−18.7			
	13.2			19	
	48.8			69	
455	−2.7	12.8			
	6.3	−16.8			
	−10.8			−15	
	25.2			36	
454	−4.1	13.4			
	5.0	−16.3			
	−16.4			−23	
	20.0			28	
449	−3.6	17.4			
	5.6	−12.3			
	−14.4			−20	
	22.4			32	

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V

-45°	5.7	22	53	45	-44°	58.1 ~ 16M
-44°	36.1	22	53	42	-44°	58.3
1.42		22	53	44	-44°	58.2
		22	54	46	-44°	54.7 eeF vs v16M
		22	54	42	-44°	54.8
		22	54	44	-44°	54.8
		22	54	12	-44°	52.9 /
		22	54	9	-44°	52.9
		22	54	10	-44°	52.9
		22	54	4	-44°	52.3 /
		22	54	1	-44°	52.4
		22	54	2	-44°	52.4
		22	54	7	-44°	48.3 /
		22	54	5	-44°	48.4
		22	54	6	-44°	48.4

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10'

448	3.0	16.6	10372	22 54 27
	11.9	−13.1	10289	22 53 33
	12.0		22 52 55.9 22 52 6.0	17
	47.6		−45 13.6 −44 44.0	68
			+1.27 +7.9	
421	3.5	20.8	"	
	12.3	−8.9	"	
	14.0			19
	49.2			70
444	9.6	8.3	10377	22 55 [illegible]
	4.0	−15.0	10293	22 56 27
	38.4		22 54 28.9 22 55 1.0	55
	16.0		−45 20.0 −44 57.0	22
			+1.26 +8.0	
445	3.7	13.3	"	
	−2.0	−9.9	"	
	14.8			52
	−6.0			−11
453	−3.6	14.0	"	
	−9.1	−9.7	"	
	−14.4			−20
	−36.4	✓		−52
	✓			

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V

7	−45°	5.7	22	54	44	−44°	49.1	2
3	−44°	36.1	22	54	41	−44°	49.2	
	1.42		22	54	42	−44°	49.2	
	1.41.							
	"		22	54	46	−44°	44.9	2
	"		22	54	43	−44°	45.0	
			22	54	44	−44°	45.0	
−5	−45°	12.0	22	56	50	−45°	3.7	2 b M spin E@ 85°
7	−44°	49.0	22	56	49	−45°	4.0	
	1.42		22	56	50	−45°	3.8	
	1.41							
	"		22	56	47	−44°	58.7	2 c b M R
	"		22	56	38	−44°	58.9	
			22	56	42	−44°	58.8	
	"		22	55	35	−44°	58.0	1
	"		22	55	35	−44°	58.7	
			22	55	35	−44°	58.4	

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15

		16.5		
451	-5.3	+9.5	10377	22 55 55
	-11.0	-6.8	10293	22 56 27
	-21.2		22 54 28.9 22 55 1.0	-30
	-44.0		-45 20.0 -44 57.0	-62
			+1.26 +8.0	
452	-0.7	19.5	"	
	-6.4	-3.9	"	
	-2.8			-4
	-25.6			-36
446	3.0	20.7	"	
	-2.8	-2.6	"	
	12.0			17
	-11.2			-16
440	16.5	-2.4	10293	22 56 27
	-17.0	-7.9	10294	22 59 36
	66.0		22 55 1.0 22 58 9.8	93
	-68.0		-44 57.0 -44 53.1	-95
			+1.26 +8.0	
442	10.0	0.3	"	
	-23.6	-5.3	"	
	40.0			56
	-94			-133

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V

-45°	12.0	22	55 25	-44°	55.5	2 cb M v/E @ 80°
-44°	49.0	22	55 25	-44°	55.8	
1.42		22	55 25	-44°	55.6	
1.41						
		22	55 51	-44°	52.5	1 RR glob ?
		22	55 51	-44°	52.9	
		22	55 51	-44°	52.7	
		22	56 12	-44°	51.3	2 RR glob bM
		22	56 11	-44°	51.6	
		22	56 12	-44°	51.4	
-44°	49.0	22	58 0	-44°	51.4	eeF eS 16M
-44°	44.1	22	58 1	-44°	52.0	
1.41		22	58 0	-44°	51.7	
"		22	57 23	-44°	48.7	/
"		22	57 23	-44°	49.4	
		22	57 23	-44°	49.0	

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20

443	7.8 −25.6 31.2 −102.4	1.6' −4.0	10293 10294 22 55 1.0 22 58 9.8 −44 57.0 −44 52.1 +1.26 +8.0	22 56 27 22 59 36 44 −143
439	21.9 −11.6 87.6 −46.4	7.1 1.7	" "	123 −65
441	16.7 −7.9 66.8 −71.6	10.5 5.1	" "	94 −101
437	−10.7 27.8 −42.8 111.2	11.3 −25.8	10294 10292 22 58 9.8 22 54 38.0 −44 52.1 −44 14.5 +1.26 48.0	22 59 36 22 56 4 −60 156
434	−9.6 29.0 −38.4 116.0	16.2 −20.9	" "	−54 163

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-44°	49.0	22	57	11	-44°	47.4	e F ees
-44°	44.1	22	57	13	-44°	48.1	
1.41		22	57	12	-44°	47.7	
"		22	58	30	-44°	41.9	2 bM LE @ 100° bM
"		22	58	31	-44°	42.4	spin
		22	58	30	-44°	42.2	
"		22	58	1	-44°	38.5	1
"		22	57	55	-44°	39.0	
		22	57	58	-44°	38.8	
-44°	44.1	22	58	36	-44°	32.8	2
-44°	6.3	22	58	40	-44°	32.3	
		22	58	38	-44°	32.6	
1.41							
"		22	58	42	-44°	27.9	2
"		22	58	47	-44°	27.4	
		22	58	44	-44°	27.6	

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25

433	−17.0	19.7	10294	22 59	36
	21.7	−18.3	10292	22 56	4
	−68.0		22 58 9.8	22 54 38.0	−95
	86.8		−44 52.1	−44 14.5	122
			+1.26	+8.0	
432	−23.8	15.4	"		
	14.7	−21.6	"		
	−95.2				−134
	58.8				83
438	1.4	11.6	"		
	39.9	−25.7	"		
	5.6				8
	159.6				226
383	−6.7	28.4	"		
	32.2	−8.8	"		
	−26.8				−38
	128.8				181
382	−6.4	36.8	"		
	32.6	−0.4	"		
	−25.6				−36
	120.4				169

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36	-44°	44.1	22	58	1	-44°	34.4
4	-44°	6.5	22	58	6	-44°	34.8
	1.41		22	58	4	-44°	34.6

2 E @ 135° b M spin.

"			22	57	22	-44°	28.7
"			22	57	27	-44°	28.1
			22	57	24	-44°	28.4

2 RR glob.

"			22	59	44	-44°	32.5
"			22	58	50	-44°	32.2
			22	59	47	-44°	32.4

e F S 1E @ 115°

"			22	58	58	-44°	15.7
"			22	59	5	-44°	15.3
			22	59	1	-44°	15.5

2

"			22	59	0	-44°	7.3
"			22	58	53	-44°	6.9
			22	58	56	-44°	7.1

e F .5 d c b M R

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1923phae.proj.23055

30

387	17.7	3.1	10292	22 55 4
			22 54 38	
	70.8		-44 14.5	100
			+1.26 +8.0	
447	-10.7	9.4	10293	22 56 27
	3.7	-13.1	10291	22 55 10
	-42.8		22 55 1.0 22 53 44.0	-60
	14.8		-44 57.0 -44 34.2	21
			+1.26 +8.0	
471	-10.4	12.7	"	
	4.0	-9.8	"	
	-41.6			-59
	16.0			22
422	-10.9	13.8	"	
	3.4	-8.7	"	
	-43.6			-61
	13.6			19
430	-64	15.3	"	
	7.9	-7.3	"	
	-25.6			-36
	31.6			45

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1	-44°	6.5	22	56	44	-44°	3.4	ee F vs
								no other comp. + nr. by,
	1.41							
7	-44°	49.0	22	55	27	-44°	39.6	/
0	-44°	26.2	22	55	31	-44°	39.3	
	1.41		22	55	38	-44°	39.4	
			22	55	26	-44°	36.3	/
			22	55	32	-44°	36 0	
			22	55	30	-44°	36.2	
			22	55	26	-44°	35.2	/
			22	55	29	-44°	34.9	
			22	55	28	-44°	35.0	
			22	55	51	-44°	33.7	/
			22	55	55	-44°	33.5	
			22	55	53	-44°	33.6	

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35

439	−8.4	14.6	10293	22 56	27
	5.8	−8.0	10291	22 55	10
	−33.6		22 55 1.0 22 53 44.0	−47	
	23.2		−44 57.0 −44 34.2	33	
			+1.26 +8.0		
438	− 6.1	16.8	"		
	8.3	− 5.8	"		
	−24.4			−34	
	33.2			47	
427	− 11.4	19.0	"		
	3.0	− 3.6	"		
	− 75.6			−64	
	12.0			16	
426	− 10.6	20.4	"		
	3.7	− 2.2	"		
	−42.4			−60	
	14.8			21	
421	− 0.3	−0.9	10291	22 55 1.0	−4
	19.6	2.3	10288	22 53 18	−4
	− 1.2		22 53 44.6 22 51 52.4	− 2	
	78.4		−44 34.2 −44 36.2	111	
			+1.26 +8.0		

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27	-44°	49.0	22	55	40	-44°	34.4	/
0	-44°	26.2	22	55	43	-44°	34.2	
	1.41		22	55	42	-44°	34.3	
	"		22	55	53	-44°	32.2	/
	"		22	55	57	-44°	32.0	
			22	55	55	-44°	32.1	
	"		22	55	23	-44°	30.0	/
	"		22	55	26	-44°	29.8	
			22	55	24	-44°	29.9	
			22	55	27	-44°	28.6	/
	"		22	55	31	-44°	28.4	
	"		22	55	29	-44°	28.5	
	-44°	26.2	22	55	8	-44°	27.1	/
	-44°	28.2	22	55	19	-44°	25.9	
	1.40		22	55	14	-44°	26.0	

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40

425	−5.4	0.0	10291	22 55	10
	14.7	2.1	10288	22 53	18
	−21.6		22 53 44.6 22 51 52.4	−30	
	58.8		−44 34.2 −44 36.2	82	
			+1.26 +8.10		
827	−2.9	12.2	10291	22 55	10
	5.4	−9.9	10290	22 ~~55~~ 54	~~18~~ 24
	−11.6		22 53 44.6 22 ~~51~~ 52 ~~52.4~~ 58.0	−16	
	21.6		−44 34.2 44 ~~36.2~~ 12.1	90	
			+1.26 +8.0		
423	−2.8	10.0	"		
	6.4	−12.1	"		
	−11.2			−15	
	25.6			35	
392	−7.7	14.0	"		
	0.8	−8.1	"		
	−30.8			−43	
	3.2			4	
391	−9.3	14.4	"		
	−0.7	−7.5	"		
	−37.2			−52	
	−2.8			−3	

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10	-44° 26.2	22	54	40	-44° 26.2	/
18	-44° 28.2	22	54	40	-44° 26.1	
	1.40	22	54	40	-44° 26.2	
0	-44° 26.2	22	54	54	-44° 14.0	ecF eS
24	-44° ~~28.2~~ 4.1	22	54	54	-44° 14.0	
		22	54	54	-44° 14.0	
	1.40					
"		22	54	55	-44° 16.2	/
"		22	54	59	-44° 16.2	
		22	54	57	-44° 16.2	
"		22	54	27	-44° 12.2	2
"		22	54	28	-44° 12.2	
		22	54	28	-44° 12.2	
"		22	54	18	-44° 11.8	/
		22	54	21	-44° 11.6	
		22	54	20	-44° 11.7	

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45

389	−10.2	17.0	10291	22 55 10
	−1.7	− 5.0	10290	22 54 24
	−40.8		22 53 44.6 22 51 52.4	−57
	−6.8		−44 34.2 −44 36.2	− 9
			+1.26 +8.0	
393	−3.1	17.4	"	
	5.4	− 4.6	"	
	−12.4			−17
	21.6			30
394	4.6	13.7	"	
	13.0	− 8.4	"	
	18.4			25
	62.0			80
858	3.6	13.4	"	
	12.0	− 8.8		
	14.4			20
	48.0			60
390	19.2	−2.4	10287	22 52 31
	−1.4	+0.1	10290	22 54 24
	76.8		22 51 5.2 22 51 52.4	107
	−5.6		−44 9.6 −44 36.2	− 7
			+1.26 +8.0	

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V

10	-44°	26.2	22	54 13	-44°	9.2	2
4	-44°	4.1	22	54 15	-44°	9.1	
	1.40		22	54 14	-44°	9.2	
	"		22	54 53	-44°	8.8	/
	"		22	54 54	-44°	8.7	
			22	54 54	-44°	8.8	
	"		22	55 35	-44°	12.5	/
	"		22	55 44	-44°	12.5	
			22	55 48	-44°	12.5	
	"		22	55 30	-44°	12.8	/
	"		22	55 24	-44°	12.9	
			22	55 27	-44°	12.8	
31	-44°	1.6	22	54 18	-44°	4.0	/ IE@ 135° v/b M
4	-44°	4.1	22	54 17	-44°	4.0	
	1.40		22	54 18	-44°	4.0	

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50

384	3.7	2.7	10287	22 52 31
	16.7	+ 5.2	10290	22 54. 24
	14.8		22 51 5.2 22 51 52.4	21
	66.8		-44 9.6 -44 36.2	93
			+1.26 +8.0	
395	-4.2	+0.1	10292	22 56 4
	14.0	-2.4	10290	22 54 24
	-16.8		22 54 38.0 22 51 52.4	-23
	56.0		-44 14.5 -44 36.2	78
			+1.26 +8.0	
388	-6.3	+ 4.7	"	
	11.6	+ 2.1	"	
	-25.2			- 35
	46.4			64
396	3.7	-5.0	10287	22 52 31
	7.5	2.8	10286	22 52 11
	14.8		22 51 52 22 50 44.7	21
	30.0		-44 9.6 -44 17.5	42
			+1.26 +8.0	
461	4.1	- 10.0	"	
	7.7	- 2.0	"	
	16.4			23
	30.8			43

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-44°	1.6	22	52	52	-43°	58.9
-44°	4.1	22	52	51	-43°	58.9
		22	52	52	-43°	58.9
1.39						
-44°	6.5	22	55	41	-44°	6.4
-44°	4.1	22	55	42	-44°	6.5
		22	55	42	-44°	6.4
1.39						
		22	55	29	-44°	1.8
		22	55	28	-44°	2.0
		22	55	28	-44°	1.9
-44°	1.6	22	52	52	-44°	6.6
-44°	9.5	22	52	53	-44°	6.7
1.39		22	52	52	-44°	6.6
		22	52	54	-44°	11.6
		22	52	54	-44°	11.5
		22	52	54	-44°	11.6

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