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Nebulae Discovered By

H. Shapley

on

Plate No. A 12193

Boon No II

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This book Checked for positions.
1924

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July 30, 1923.

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Book No. 2.

Begun, July, 27, 1923.

Standard Descriptions
Nos. 1 = ecF, ecS.
2 = eF, eS

Nebulae marked thus
Discovered by
Dr H. Shapley
March, 1923

Positions Determained by
Leon Campbell, Jr.
July – Aug.
1923

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2

3/

No. Nebs.	x	Y	Comp. Star	R. A.
8	0.7	−11.4	10288	22 53 19
	20.2	8.1	10285	22 51 4.2
	2.8		22 07 52.8 22 50 15.4	3
	80.8		−44 36.2 −44 55.3	113
			+1.27 +7.9	
419	−2.4	−18.3	〃	
	17.0	1.2	〃	
	−9.6			−13
	68.0			90
418	−5.8	−7.5	〃	
	13.7	12.0	〃	
	−23.2			−32
	54.8			76
417	−11.6	−10.7	〃	
	8.2	9.0	〃	
	−46.4			−64
	32.8			45
416	−10.7	−11.0	〃	
	8.8	8.5	〃	
	−42.8			−59
	35.2			49

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Dec	x	y	Description
-44° 28.3	22 53 22	-44° 39.7	e F V S V m b M RR
-44° 47.4	22 53 35	-44° 39.3	
1.40	22 53 28	-44° 39.5	
"	22 53 6	-44° 46.6	2 E @ 35° spin
"	22 53 12	-44° 46.2	
	22 53 9	-44° 46.4	
"	22 52 47	-44° 35.8	2 g p s u m b M RR
"	22 52 58	-44° 35.4	
	22 52 52	-44° 35.6	
"	22 52 15	-44° 39.0	1
"	22 52 27	-44° 38.4	
	22 52 21	-44° 38.7	
"	22 52 18	-44° 39.3	1
"	22 52 31	-44° 38.9	
	22 52 24	-44° 39.1	

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1°/

415	−11.5	−13.9	10284	22 53 19
	8.0	5.6	10285	22 51 42
	−46.0		22 51 52.4 22 50 15.4	− 60
	32.0		−44 36.2 −44 55.3	40
			+1.27 + 7.9	
457	−4.8	11.6	10285	22 51 42
	12.6	−13.7	10282	22 49 53
	−19.2		22 50 15.4 22 48 25.9	− 26
	50.4		−44 55.3 −44 30.2	70
			+1.27 +7.9	
~~5~~ 459	−2.1	12.3	〃	
	15.1	−12.0	〃	
	−8.4			− 11
	60.4			84
~~453~~ 460	24.0	−8.5	10282	22 49 53
	−13.1	−2.6	10288	22 53 19
	96.0		22 48 25.9 22 51 52.4	130
	−52.4		−44 30.2 −44 36.2	− 73
			+1.27 +7.9	
380	~~16.5~~ 15.5	−1.7	〃	
	−21.7	4.0	〃	
	~~66.0~~ 62.0			87
	−86.8			− 122

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-44°	28.3	22	52	19	-44°	42.2
-44°	47.4	22	52	22	-44°	41.8
1.40		22	52	20	-44°	42.0
-44°	47.4	22	51	16	-44°	35.8
-44°	22.3	22	51	3	-44°	36.0
1.40		22	51	10	-44°	35.9
		22	51	31	-44°	35.1
		22	51	17	-44°	34.3
		22	51	24	-44°	34.7
-44°	22.3	22	52	3	-44°	30.8
-44°	28.3	22	52	6	-44°	30.9
1.40		22	52	4	-44°	30.8
		22	51	20	-44°	24.0
		22	51	17	-44°	24.3
		22	51	18	-44°	24.2

2 spin-E @ 50° bN

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6

15

375	18.7	3.3	10282	22 49 53 -4
	-18.4	9.2	10288	22 53 19 -4
	74.8		22 48 25.9 22 51 52.4	105
	-73.6		-44 30.2 -44 36.2	-103
			+1.27 +7.9	
377	14.7	4.7	"	
	-22.3	10.3	"	
	58.8			82
	-90.8			-127
399	10.7	5.6	"	
	-26.7	11.2	"	
	42.8			59
	-106.8			-140
374	9.8	-7.6	10284	22 50 40 -4
	~~-7.0~~ ~~+0.8~~	8.7	10286	22 52 12 -4
	39.2		22 49 12.7 22 50 44.1	54
	-28.0		-44 1.4 -44 17.5	-38
			+1.27 +7.9	
398	18.2	-8.3	"	
	1.6	8.2	"	
	72.8			101
	6.4			9

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-44°	22.3	22	51	38	-44°	19.0	z E@ 80° bM ~~S~~
-44°	28.3	22	51	36	-44°	19.1	s.pin
1.40		22	51	37	-44°	19.0	
		22	51	15	-44°	17.6	F .9' x 3' @ 180° st in M
		22	51	12	-44°	18.0	def. spir. on edge. bn
		22	51	14	-44°	17.8	
		22	50	52	-44°	16.7	z
		22	50	49	-44°	17.1	
		22	50	50	-44°	16.9	
3							
-44°	53.5	22	51	36	-44°	1.1	/
-44°	9.6	22	51	34	-44°	0.9	
1.39		22	51	35	-44°	1.0	
		22	52	21	-44°	1.8	/
		22	52	21	-44°	1.4	
		22	52	21	-44°	1.6	

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2°

1	6.9 −4.7 27.6 −18.8	0.5 −4.9	10280 10284 22 48 9.1 22 49 12.7 −44 6.8 −44 1.4 +1.27 +7.9	22 ~~50~~ 49 ~~46~~ 36 22 50 40 38 −26
360	4.8 −6.8 19.2 −27.2	4.2 −1.1	" "	27 −38
372	4.7 −7.0 18.8 −28.0	−0.4 −5.7	" "	26 −38
357	1.6 −10.0 6.4 −40.0	−2.4 −7.8	" "	9 −55
358	2.1 −9.4 8.4 −37.6	−3.2 −8.7	" "	12 −52

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V

		3 58.9				
	-44°	~~53.5~~	22	50 14	-43° 58.4	vF 1.5' x .3' @ 100° bM
	-44°	53.5	22	50 14	-43° 58.4	def. spir vmbM
	1.89		22	50 14	-43° 58.4	
			22	50 3	-43° 54.7	/
			22	50 2	-43° 54.6	
			22	50 2	-43° 54.6	
			22	50 2	-43° 59.3	/
			22	50 2	-43° 59.2	
			22	50 2	-43° 59.2	
			22	49 45	-44° 1.3	/ vmbM
			22	49 45	-44° 1.3	
			22	49 45	-44° 1.3	
			22	49 48	-44° 2.1	/
			22	49 48	-44° 2.2	
			22	49 48	-44° 2.2	

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25

359	4.9	-4.4	10280	22 49 36
	-6.7	- 9.7	10284	22 50 40
	19.6		22 48 9.1 22 49 12.7	27
	- 26.8		-44 6.8 -44 1.4	- 37
			+1.27 +7.9	
318	-16.4	5.6	10280	22 49 36
	8.8	3.1	10278	22 47 7
	-65.6		22 48 9.1 22 45 49.6	- 91
	35.2		-44 6.8 -44 3.9	49
			+1.27 +7.9	
364	-18.2	3.7	"	
	7.0	1.1	"	
	-72.8			- 101
	28.0			38
365	- 21.0	2.3	"	
	4.3	-0.3	"	
	- 84.0			- 116
	17.2			24
319	-5.9	0.2	10278	22 47 17
	19.8	12.7	10274	22 44 54
	-23.6		22 45 49.6 22 43 27.1	- 33
	79.2		-44 3.9 -44 16.0	110
	V	V	+1.27 +7.9	

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36	-44°	58.9	22	50	3	-44°	3.3	/
40	-44°	53.5	22	50	3	-44°	3.2	
	1.39		22	50	3	-44°	3.2	
36	-43°	58.9	22	48	5	-43°	53.3	/
7	-43°	56.0	22	47	56	-43°	52.9	
	1.39		22	48	0	-43°	53.1	
			22	47	55	-43°	55.2	2
			22	47	45	-43°	54.9	
			22	47	50	-43°	55.0	
			22	47	40	-43°	56.6	/
			22	47	31	-43°	56.3	
			22	47	36	-43°	56.4	
7	-43	56.5	22	46	44	-43	56.3	/
4	-44	8.1	22	46	44	-43°	55.4	
	139		22	46	44	-43°	55.8	

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30/

400	−8.1	−5.9	10278	22 ~~47~~ ~~17~~
	17.4	7.5	10274	22 44 54
	−32.4		22 45 49.6 22 43 27.1	−45
	69.6		−44 39 −44 16.6	97
			+1.27 +7.9	
356	−14.7	−8.7	10282	22 49 53
	29.1	−9.3	10277	22 45 49
	−58.8		22 ~~45~~ 25.9 22 44 21.6	−82
	116.4		−44 30.2 −44 29.7	163
			+1.27 +7.9	
355	−8.4	−3.4	"	
	35.4	−4.1	"	
	−33.6			−47
	141.6			194
354	−9.8	3.0	"	
	34.1	+2.3 ✓	"	
	−39.2			−54
	136.4			194
347	−18.6	−1.7	"	
	25.1	−2.5	"	
	−74.4			−105
	104 ✓	✓		142

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	-44°	56.5	22	46	32	-44°	2.4	1	
	-44°	8.1	22	46	31	-44°	0.6		
	1.4		22	46	32	-44°	1.5		
	-44°	22.3	22	48	31	-44°	31.0	1	1E @ 15° 6M spin
	-44°	21.8	22	48	32	-44°	31.1		
	1.40		22	48	32	-44°	31.0		
			22	49	6	-44°	25.7	2	
			22	49	3	-44°	25.9		
			22	49	4	-44°	25.8		
			22	48	59	-44°	19.3	1	V1E @ 18.5° spin
			22	49	3	-44°	19.5		
			22	49	1	-44°	19.4		
			22	48	9	-44°	24.0	1	
			22	48	11	-44°	24.3		
			22	48	10	-44°	24.2		

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35

352	−11.8	2.1	10282	22 49 53
	32.0	1.0	10277	22 45 49
	−47.2		22 48 25.9 22 44 21.6	−66
	128.0		−44 30.2 −44 29.7	179
			+1.27 +7.9	
353	−11.8	1.6	"	
	32.0	0.8	"	
	−47.2			−66
	128.0			179
350	−14.6	3.2	"	
	29.2	2.6	"	
	−58.4			−81
	116.8			164
351	−15.1	3.2	"	
	28.7	2.6	"	
	−60.4			−84
	114.8			164
352 # (asteroid?)	−13.0	3.3	"	
	30.8	2.7	"	
	−62.0			−80
	123.2			172

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-3	-44°	22.3	22	48	47	-44°	20.2
9	-44°	21.8	22	48	48	-44°	20.8
	1.40		22	48	48	-44°	20.5
			22	48	47	-44°	20.7
			22	48	48	-44°	21.0
			22	48	48	-44°	20.8
			22	48	32	-44°	19.1
			22	48	33	-44°	19.2
			22	48	32	-44°	19.2
			22	48	29	-44°	19.1
			22	48	33	-44°	19.2
			22	48	31	-44°	19.2
			22	48	33	-44°	19.0
			22	48	44	-44°	19.1
			22	48	38	-44°	19.0

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40

346°	-19.0 R ~~29.8~~ 24.8 -76.0 99.2	0.6 -0.2	10272 10277 22 48 25.9 22 44 21.6 -44 30.2 -44 29.7 +1.27 +7.9	22 49 53 22 45 49 -100 138
344	-28.3 15.3 -113.2 61.2	-2.6 -3.2	"	-158 86
345	-26.7 17.0 -106.8 68.0	1.4 0.7	"	-150 91
348	-22.9 20.9 -91.6 83.6	5.4 4.6	"	-129 118
349	-20.6 22.8 -82.4 91.2	5.9 5.1	"	-116 128

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B	-44°	22.3	22	48. 13	-44°	21.7	/
9	-44°	21.8	22	48 7	-44°	22.0	
	1.40		22	48 10	-44°	21.8	
	"		22	47 15	-44°	24.9	/
	"		22	47 19	-44°	25.0	
			22	47 17	-44°	25.0	
	"		22	47 23	-44°	20.9	1 v m b M
	"		22	47 20	-44°	21.1	
			22	47 22	-44°	21.0	
	"		22	47 44	-44°	16.9	/
	"		22	47 47	-44°	17.2	
			22	47 46	-44°	17.0	
	"		22	47 57	-44°	16.4	/
	"		22	47 57	-44°	16.7	
			22	47 57	-44°	16.6	

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18
X

45

234	−17.3	13.8	10282	22 49 53
	−26.5	12.8	10277	22 45 49
	−69.2		22 48 25.9 22 44 21.6	−96
	106.0		−44 30.2 −44 29.7	140
			+1.27 +7.9	
470	28.7	6.0	10276	22 45 38
	−2.7	−9.0	10279	22 48 34
	114.8		22 44 11.1 22 47 7.6	148
	−10.8		−44 54.0 −44 39.3	−15
			+1.27 +7.9	
491	22.3	6.4	"	
	−9.0	−8.6	"	
	89.2			126
	−36.0			−50
492	17.3	6.7	"	
	−14.2	−8.8	"	
	69.2			98
	−56.8			−80
343	7.2	−2.5	10276	22 45 38
	31.6	−16.1	10271	22 43 23
	28.8		22 44 11.1 22 41 56.1	41
	126.4		−44 54.0 −44 40.0	177
			+1.27 +7.9	

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	-44°	22,3	22	48	17	-44°	8.5 /
9	-44°	21.8	22	48	9	-44°	9.0
	1.40		22	48	13	-44°	8.8
8	-44°	46.1	22	48	6	-44°	40.1 /
4	-44°	31.4	22	47	11	-44°	40.4
	1.41		22	47	8	-44°	40.2
	"		22	47	44	-44°	39.7 /
	"		22	47	44	-44°	40.0
			22	47	44	-44°	39.8
	"		22	47	16	-44°	39.4 /
	"		22	47	14	-44°	39.6
			22	47	15	-44°	39.5
	-44°	46.1	22	46	19	-44°	48.6 /
3	-44°	32.1	22	46	20	-44°	48.2
	1.41		22	46	20	-44°	48.4

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50

340	5.0	−2.0	10276	22 45 38
	+29.4	−16.0	10271	22 43 23
	20.0		22 44 11.1 22 41 56.1	28
	117.6		−44 54.0 −44 40.0	166
			1 27 +7.9	
338	1.4	−3.3	"	
	+25.8	−17.0	"	
	5.6			8
	103.2			145
336	3.7	+3.8	"	
	+28.0	−10.0	"	
	14.8			21
	112.0			157
342	−13.0	−5.4	"	
	+11.4	−19.2	"	
	−52.0			−73
	45.6			64
339	−1.6	0.0	"	
	22.3	−13.8	"	
	−6.4			−9
	89.2			126

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-44°	46.1	22	46	6	-44° 48.1	2
-44°	32.1	22	46	9	-44° 48.1	
1.41		22	46	8	-44° 48.1	
"		22	45	46	-44° 49.4	2
"		22	45	48	-44° 49.1	
		22	45	47	-44° 49.2	
"		22	45	59	-44° 42.3	1
"		22	46	0	-44° 42.1	
		22	46	0	-44° 42.2	
"		22	44	25	-44° 51.5	2
"		22	44	27	-44° 51.3	
		22	44	26	-44° 51.4	
"		22	45	29	-44° 46.1	1
"		22	45	29	-44° 45.9	
		22	45	29	-44° 46.0	

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55

487	27.4	− 2.6	10262	22 40 53	−4
	−23.7	−5.1	10276	22 45 39	−4
	109.6		22 39 24.8	22 44 11.1	150
	−94.8		−44 56.5	−44 54.0	−134
			1 28	+ 7.8	
488	27.1	− 3.3	"		
	−24.0	− 5.7	"		
	108.4				152
	−96.0				−135
401	−23.7	−2.3	10278	22 47 17	−4
	19.4	1.7	10270	22 43 17	−4
	−94.8		22 45 49.6	22 41 50.1	− 132
	77.6		−44 3.9	−44 7.2	108
			+1.27	+7.9	
314	−24.8	−3.7	"		
	18.0	0.5	"		
	−99.2				− 138
	72.0				100
402	−24.4	−4.0	"		
	18.6	0.1	"		
	−97.6				− 136
	74.4				103

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3	-44°	48.7	22	43 23	-44° 51.3	1
9	-44°	46.2	22	43 25	-44° 51.3	
	1.41		22	43 24	-44° 51.3	
	"		22	43 22	-46° 52.0	1
	"		22	43 24	-46° 51.9	
			22	43 23	-46° 52.0	
7	-43°	56.0	22	45 5	-43° 58.3	1
7	-43°	59.3	22	45 5	-43° 57.6	
	1.39		22	45 5	-43° 58.0	
	"		22	44 59	-43° 59.7	2 1E @ 40° bm spin
	"		22	44 57	-43° 58.8	
			22	44 58	-43° 59.2	
	"		22	45 1	-44° 0.6	~~1~~ 1
	"		22	45 0	-43° 59.2	
			22	45 0	-43° 59.6	

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1923phae.proj.2306C

60

287	6.8	6.7	10265	22 41 24	
	−13.7	−1.7	10270	22 43 17	
	27.2		22 39 51.3 22 41 50.1	38	
	− 54.8		−44 15.8 −44 7.2	− 77	
			+1 m 28 s 7.8		
236	−2.5	−12.4	10274	22 44 54	
	36.1	4.7	10264	22 41 18	
	−10.0		22 43 27.1 22 39 51.8	−14	
	144.4		−44 16.0 −44 33.2	202	
			+1.27 +7.9		
237	−7.7	−12.4	"		
	30.9	4.8	"		
	−30.8			−43	
	123.6			174	
238	−9.6	−9.6	"		
	29.2	7.7	"		
	−38.4			−54	
	116.8			164	
215	−17.2	−6.3	"		
	21.4	11.0	"		
	−68.8			−96	
	85.6			120	

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4	-44°	8.0	22	42	2	-44°	1.3
	-44°	59.3	22	42	0	-44°	1.0
	1.40		22	42	1	-44°	1.2
4	-44°	8.1	22	44	40	-44°	20.5
5	-44°	25.3	22	44	40	-44°	20.6
	1.40		22	44	40	-44°	20.6
	"		22	44	11	-44°	20.5
	"		22	44	12	-44°	20.5
			22	44	12	-44°	20.5
	"		22	44	0	-44°	17.7
	"		22	44	2	-44°	17.6
			22	44	1	-44°	17.6
	"		22	43	18	-44°	14.4
	"		22	43	18	-44°	14.3
			22	43	18	-44°	14.4

6 M almx.

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1923phae.proj.2306C

65

312	−19.0	−7.5	10274	22 44 54	−
	19.8	9.9	10264	22 41 18	−
	−76.0		−22 43. 27.1 22 39 57.3	−106	
	79.2		−44 16.0 −44 33.2	111	
			+1.27 +7.9		
310	−31.2	− 9.0	"		
	7.4	8.3	"		
	−124.8			−174	
	29.6			41	
311	−28.2	− 10.7	"		
	10.6	6.7	"		
	−112.8			− 157	
	42.4			59	
313	− 20.0	−17.0	"		
	18.7	0.3	"		
	−60.0			− 111	
	74.8			104	
490	−18.2	−21.7	"		
	20.4	−4.5	"		
	−72.8			−101	
	81.6	✓		113	

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V

54	-44°	8.1	22	43 8	-44° 15.6	/
δ	-44°	25.3	22	43 9	-44° 15.4	
	1.39		22	43 8	-44° 15.5	
	"		22	42 0	-44° 17.1	/
	"		22	41 59	-44° 17.0	
			22	42 0	-44° 17.0	
	"		22	42 17	-44° 18.8	/
	"		22	42 17	-44° 18.6	
			22	42 17	-44° 18.7	
	"		22	43 3	-44° 25.1	/ 16 M
	"		22	43 2	-44° 25.0	
			22	43 2	-44° 25.0	
	"		22	43 13	-44° 29.8	/ 16 M
	"		22	43 11	-44° 29.8	
			22	43 12	-44° 29.8	

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70/

309	3.1	−4.6	10265	22 41 24
	9.9	12.4	10261	22 40 47
	14.4		22 39 56.3 22 39 18.8	20
	39.6		−44 15.8 −44 32.6	55
			m s +1 28. +7.1	
306	0.7	−8.3	"	
	7.6	8.6	"	
	2.8			4
	30.4			42
307	−1.8	−11.4	"	
	4.8	5.5	"	
	−7.2			−10
	19.2			27
305	−3.0	−11.7	"	
	3.9	5.1	"	
	−12.0			−16
	15.6			21
308	2.8	−11.9	"	
	9.7	5.0	"	
	11.2			16
	38.8			54

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1923phae.proj.20000

-44°	8.0	22	41.44	-44°	12.6	1
-44°	24.8	22	41 42	-44°	12.4	"
1.39		22	41 43	-44°	12.5	
"		22	41 28	-44°	16.3	1
"		22	41 29	-44°	16.2	
		22	41 28	-44°	16.2	
"		22	41 14	-44°	19.4	1
"		22	41 14	-44°	19.3	
		22	41 14	-44°	19.4	
"		22	41 8	-44°	19.7	1 LE @ 110° spin
"		22	41 8	-44°	19.7	
		22	41 8	-44°	19.7	
"		22	41 40	-44°	19.9	2
"		22	41 41	-44°	19.8	
		22	41 40	-44°	19.8	

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1923phae.proj.2306C

30

S

75

291	−0.9 4.6 −3.6 18.4	11.2 −17.5	10261 10260 22 39 16.8 22 38 49.3 −44 32.6 −44 7.1 1 28 +7.8	22 40 47 − 22 40 17 − − 5 26
292	0.5 6.0 2.0 24.0	9.7 −16.0	" "	3 34
293	0.6 6.1 2.4 24.4	8.5 −17.2	" "	3 34
295°	0.6 ~~+.7~~ 2 ~~6.1~~ ~~2.1~~ 2.4 24.4	4.7 −20.9	" "	3 34
299	−2.5 3.2 −10.0 12.8 ✓	0.3 −25.3 ✓	" "	− 14 18

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	-44° 24.8	22	40.42	-44° 13.6	1	
	-43° 59.3	22	40.43	-44° 13.8		
	1.40	22	40 42	-44° 13.7		
"		22	40 50	-44° 15.1	2	
"		22	40 51	-44° 15.3		
		22	40 50	-44° 15.2		
"		22	40 50	-44° 16.3	2	1E @ 0° s/pin
"		22	40 51	-44° 16.5		
		22	40 50	-44° 16.4		
"		22	40 50	-44° 20.1	2	E @ 100° s/pin
"		22	40 51	-44° 20.2		
		22	40 50	-44° 20.2		
"		22	41 33	-44° 24.5	1	
"		22	41 35	-44° 24.6		
		22	41 34	-44° 24.6		

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80

297	25.7 − 9.3 102.8 −37.2	22.6 − 7.7	10259 10265 22 36 38.8 22 59 56.3 −44 45.8 −44 15.8 +1.2f +7.8	22 38 7 22 41 24 145 − 52
294	16.3 − 18.8 65.2 −75.2	19.6 − 10.9	"	92 − 106
300	23.3 − 11.8 93.2 −47.2	12.6 − 17.8	"	131 − 67
301	20.4 − 14.7 81.6 −58.8	11.4 − 19.0	"	116 − 83
302	21.3 − 13.7 85.2 ~~54.8~~ ✓	12.4 − 18.2 ✓	"	120 − 77

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	-44°	38.0	22	40 32	-44°	15.4	1
	-44°	8.0	22	40 32	-44°	15.7	
	1.41		22	40 32	-44°	15.6	
	"		22	39 39	-44°	18.5	1 R cloud
	"		22	39 38	-44°	18.9	
			22	39 38	-44°	18.8	
	"		22	40 18	-44°	25.4	1 cloud
	"		22	40 17	-44°	25.8	
			22	40 18	-44°	25.6	
	"		22	40 3	-44°	26.6	1
	"		22	40 1	-44°	27.0	
			22	40 2	-44°	26.8	
	"		22	40 7	-44°	25.6	1
	"		22	40 7	-44°	26.2	
			22	40 7	-44°	25.9	

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1923phae.proj.2306C

34

f5

303	23.7 − 11.4 ~~+34.8~~ −45.6	12.3 − 18.1	10259 10265 22 36 38.8 22 39 56.3 −44 45.8 −44 15.8 +1.28 +7.8	22 38 7 22 41 24 134 ~~+90~~ − 64		
304	25.5 − 9.6 102.0 −38.4	11.4 − 18.8	" "	144 − 54		
325	10.8 − 24.3 43.2 −97.2	14.0 − 16.6	" "	61 −138		
333	10.9 − 24.3 43.6 −97.2	10.1 − 20.5	" "	61 −138		
332	8.7 − 26.4 34.8 −105.6 ✓	5.0 − 25.6 ✓	" "	48 −149		

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7	1	-44°	38.0	22	40	21	-44°	25.7	1	
4		-44°	8.0	22	40	20	-44°	26.1		
		1.41		22	40	20	-44°	25.9		
		"		22	40	31	-44°	26.6	2	
		"		22	40	30	-44°	26.8		
				22	40	30	-44°	26.7		
		"		22	39	8	-44°	24.0	1	16M 1F
		"		22	39	6	-44°	24.6		
				22	39	7	-44°	24.3		
		"		22	39	8	-44°	27.9	1	
		"		22	39	6	-44°	28.5		
				22	39	7	-44°	28.2		
		"		22	38	55	-44°	33.0	1	
		"		22	38	55	-44°	33.6		
				22	38	55	-44°	33.3		

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297	9.4 −2.8 37.6 −11.2	2.3 11.0	10260 10265 22 38 49.8 22 39 56.3 −44 7.1 −44 15.8 +1.28 +7.8	22 40 17 22 41 24 52 −16
218	4.0 −8.3 16.0 −33.2	−0.4 8.3	" "	" " 22 −46
280	9.7 −2.6 38.8 −10.7	−2.5 6.2	" "	" 54 −145
281	8.5 −3.9 34.0 −15.6	−3.3 5.4	" "	47 −22
274	−178 −30.1 −71.2 −120.4	1.2 9.9	" "	−99 −167

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7	−43° 59.3	22	41. 9	−43°	57.0	1 R
4	−44° 8.0	22	41 8	−43°	57.0	
	1.39	22	41 8	−43°	57.0	
	"	22	40 39	−43°	59.7	1
	"	22	40 38	−43°	59.7	
		22	40 38	−43°	59.7	
	"	22	40 11	−44°	1.8	2 6M
	"	22	39 59	−44°	1.8	
		22	40 5	−44°	1.8	
	"	22	41 4	−44°	2.6	2 6M
	"	22	41 2	−44°	2.6	
		22	41 3	−44°	2.6	
	"	22	38 38	−43°	58.1	1
	"	22	38 37	−43°	58.1	
		22	38 38	−43°	58.1	

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95

275	− 13.0	−1.4	10260	22 40 17
	− 25.2	7.4	10265	22 41 24
	−52.0		22 38 49.8 22 39 56.3	− 72
	−100.8		−44 21 −44 15.8	− 140
			+1.28 47.8	
277	− 9.3	−4.7	"	
	−21.4	4.0	"	
	−37.2			− 52
	−85.6			− 119
276	− 10.8	−4.4	"	
	−23.0	4.4	"	
	−43.2			− 60
	−92.0			− 127
286	− 9.0	−6.7	"	
	−21.3	2.1	"	
	−36.0			− 50
	−85.2			− 118
285	− 0.1	−7.6	"	
	−12.4	1.3		
	− 0.4			− 1
	−49.6			− 69

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7	-44°	59.3	22	39	5	-44°	0.7	/
4	-44°	8.0	22	39	4	-44°	0.6	
	1.39		22	39	4	-44°	0.6	
	"		22	39	25	-44°	4.0	/
	"		22	39	23	-44°	4.0	
			22	39	24	-44°	4.0	
	"		22	39	17	-44°	3.7	/ c bM
	"		22	39	17	-44°	3.6	
			22	39	17	-44°	3.6	
	"		22	39	27	-44°	6.0	/ v m b M a l m x
	"		22	39	26	-44°	5.9	
			22	39	26	-44°	6.0	
	"		22	40	16	-44°	6.9	/
	"		22	40	15	-44°	6.7	
			22	40	16	-44°	6.8	

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1923phae.proj.2306c

(195)

100

321	− 4.2 ~~24.7~~ −16.8 98.8	12.8 − 3.6	10259 10254 22 36 38.8 −44 45.8 +1.28	22 38 7 22 35 25 − 24 139	
329	+ 2.0 30.8 8.0 123.2	10.2 − 6.3	〃 〃	11 173	
328	−1.7 27.3 −6.8 109.2	7.3 − 9.2	〃 〃	−90 154	
327	−7.9 21.0 −31.6 84.0	6.1 −10.2	〃 〃	−45 118	
326	−13.3 15.6 −53.2 62.4	4.1 −12.3	〃 〃	−75 88	

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1923phae..proj..2306C

7	−44°	38.0	22	37 43	−44° 25.2	v F spin. .9'x.3' @ 180°
5	−44°	21.7	22	37 44	−44° 25.3	
	1.41		22	37 44	−44° 25.2	
	"		22	38 18	−44° 27.8	/
	"		22	38 18	−44° 28.0	
			22	38 18	−44° 27.9	
	"	/	22	37 57	−44° 30.7	/ bM
	"		22	37 59	−44° 30.9	
			22	37 58	−44° 30.8	
	"		22	37 22	−44° 31.9	/
	"		22	37 23	−44° 31.9	
			22	37 22	−44° 31.9	
	"		22	36 52	−44° 33.9	/ E@ 10° spin.
	"		22	36 53	−44° 34.0	
			22	36 52	−44° 34.0	

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1923phae.proj.2306c

5

322	15.0	11.7	10254	22 35 25
	13.7	−4.3	10255	22 35 32
	60.0		22 33 57.3 22 34 3.8	84
	54.8		−44 29.5 −44 13.7	77
			+12.8 +7.6	
323	13.7	10.0	"	
	12.6	−5.9	"	
	54.8			77
	50.4			71
272	10.0	10.6	10255	22 35 32
	−4.1	−13.0	9647	22 36 49
	40.0		22 34 3.8 22 35 21.5	56
	−16.4		−44 13.7 −43 50.0	−23
			+1.28 +7.6	
273	13.0	7.4	"	
	−0.9	−16.5	"	
	52.0			72
	−3.6			−5
324	−10.3	6.0	10254	22 35 25
	21.7	0.2	10245	22 32 27
	−41.2		22 33 57.3 22 30 59.7	−58
	86.8 ✓	✓	−44 29.5 −44 23.6	122
			+1.27 +7.8	

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5	-44°	21.7	22	36.49	-44° 10.0	1
2	-44°	5.9	22	36 49	-44° 10.2	
	1.40		22	36 49	-44° 10.1	
	"		22	36 42	-44° 11.7	1
	"		22	36 43	-44° 11.8	
			22	36 42	-44° 11.8	
	-44°	5.9	22	36 28	-43° 55.3	1
9	-43°	42.2	22	36 26	-43° 55.2	
	1.39		22	36 27	-43° 55.2	
	"		22	36 44	-43° 58.5	1
	"		22	36 44	-43° 58.7	
			22	36 44	-43° 58.6	
	-44°	21.7	22	34 27	-44° 15.7	2 E @ 105° spin
7	-44°	15.8	22	34 29	-44° 15.6	br. line thru M
	1.40		22	34 28	-44° 15.6	

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248	−15.8 16.2 −63.2 64.8	−1.3 −7.1	10254 10245 22 33 57.3 22 30 59.7 −44 29.5 −44 23.6 +1.27 +7.8	22 35 25 −4 22 32 27 −4 −89 91
594	−18.4 13.5 −73.6 54.0	−12.6 −18.3	11 11	−103 76
261	−1.1 −7.1 −4.4 −28.4	+5.1 −9.8	10248 9639 22 31 31.7 22 32 5.5 −44 9.8 −43 55.3 +1.27 +7.8	22 32 59 −6 22 33 33 − −6 −39
277	3.6 6.0 14.4 24.0	−6.6 20.7	10240 10242 22 30 59.7 22 30 43.7 −44 23.6 −44 50.5 +1.29 +7.8	22 32 27 −4 22 32 13 −4 20 34
245	−2.0 −22.4 −8.0 −89.6	−2.4 29.7	10237 10242 22 28 53.2 22 30 43.7 −44 18.3 −44 50.5 1.29 +7.8	22 30 22 − 22 32 13 − −11 −125

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1923phae.proj.2306C

	-44°	21.7	22	33 56	-44°	23.0	vF · 3 ⊄ b M vIE @
	-44°	15.8	22	33 58	-44°	22.9	115° * ?
	1.40		22	33 57	-44°	23.0	
	"		22	33 42	-44°	34.3	1
	"		22	33 43	-44°	34.1	
			22	33 42	-44°	34.2	
9	-44°	2.0	22	32 53	-43°	56.9	1
3	-43°	47.5	22	32 54	-43°	57.3	
	1.39		22	32 54	-43°	57.1	
27	-44°	15.8	22	32 47	-44°	22.4	⊄ ef vS b M
3	-44°	42.7	22	32 47	-44°	22.0	
	1.40		22	32 47	-44°	22.2	
2	-44°	10.5	22	30 11	-44°	12.9	2 b M
3	-44°	42.7	22	30 8	-44°	13.0	
	1.40		22	30 10	-44°	13.0	

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1923phae.proj.2306c

, 71

15

244	-1.1 -21.4 -4.4 -55.6	-5.8 26.2	102 37 102 42 22 28 53.2 22 30 43.7 -44 15.3 -44 50.5 +1.29 +7.8	22 30 22 22 32 13 — 6 -119
243	2.6 -17.6 10.4 -70.4	-7.1 20.0	" "	15 — 99
240	10.1 — 10.1 40.4 -40.4	-10.7 21.4	" "	57 - 57
241	13.6 — 6.6 54.4 -26.4	-10.8 21.3	" "	76 - 37
242	14.8 -5.4 59.2 -21.6	-12.6 19.7	" "	82 - 30

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1923phae.proj.2306C

V

-44°	10.15	22	30	16	-44°	16.3	1
-44°	42.7	22	30	14	-44°	16.5	
1140		22	30	15	-44°	16.4	
"		22	30	37	-44°	17.6	ee F k9 v 16 14
"		22	30	34	-44°	17.7	
		22	30	36	-44°	17.6	
"		22	31	19	-44°	21.2	1
"		22	31	16	-44°	21.3	
		22	31	18	-44°	21.2	
"		22	31	38	-44°	21.3	2 v m b M a/m *
"		22	31	36	-44°	21.4	
		22	31	37	-44°	21.4	
"		22	31	44	-44°	23.1	19 v m b M
"		22	31	43	-44°	23.0	
		22	31	44	-44°	23.0	

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20

601	-4.9	-2.7	10242	22 32 13	-4
	-8.7	21.9	10315	22 32. 34	-4
	-19.6		22 30 43.7 22 31 4.9	-28	
	-34.8		-44 50.5 -45 14.9	-50	
			+1.29 +7.8		
598	-10.3	-1.6	"		"
	-14.1	23.0	"		"
	-41.2			-59	
	-56.4			-80	
665	-17.7	-2.0	"		"
	-21.7	22.6	"		"
	-70.8			-100	
	-86.8			-122	
599	-8.3	-5.7	"		
	-12.3	18.7	"		
	-33.2			-47	
	-49.2			-69	
597	-11.3	-5.14	"		
	-15.1	19.0	"		
	-45.2			-64	
	-60.4			-85	

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V

3	-44°	42.7	22	31 45	-44° 45.4	2
4	-45°	7.1	22	31 44	-44° 45.2	
	1.41		22	31 44	-44° 45.3	
	"		22	31 14	-44° 44.3	2
	"		22	31 14	-44° 44.1	
			22	31 14	-44° 44.2	
	"		22	30 33	-44° 44.7	1
	"		22	30 32	-44° 44.5	
			22	30 32	-44° 44.6	
	"		22	31 26	-44° 48.4	1
	"		22	31 25	-44° 48.5	
			22	31 26	-44° 48.4	
	"		22	31 9	-44° 48.1	2
	"		22	31 9	-44° 48.1	
			22	31 9	-44° 48.1	

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25

596	−6.4	−8.0	10242	22 32 13
	−10.4	16.6	10315	22 32 34
	−25.6		22 30 43.7 22 31 4.9	− 36
	−41.6		−44 50.5 −45 14.9	− 59
			+1.29 7.8	
595	−10.4	−8.3	"	
	−14.3	16.3	"	
	−41.6			− 59
	−57.2			− 81
600	− 7.3	− 5.7	"	
	−11.2	18.7	"	
	−29.2			− 41
	−44.8			− 63
602	− 2.3	− 4.1	"	
	− 6.1	20.4	"	
	− 9.2			− 13
	−24.4			− 34
603	− 3.0	− 6.0	"	
	− 7.0	18.5	"	
	−12.0			− 16
	−28.0			− 39

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V

3	-44°	42.7	22	31	37 -44° 50.7	/
4	-45°	7.1	22	31	35 -44° 50.5	
	1.41		22	31	36 -44° 50.6	
	"		22	31	14 -44° 51.0	/
	"		22	31	13 -44° 50.8	
			22	31	14 -44° 50.9	
	"		22	31	32 -44° 48.4	/
	"		22	31	31 -44° 48.4	
			22	31	32 -44° 48.4	
	"		22	32	0 -44° 46.8	/
	"		22	32	0 -44° 46.7	
			22	32	0 -44° 46.8	
	"		22	31	18 -44° 48.7	2 st. alt / ∠ @ 185°
	"		22	31	15 -44° 48.6	
			22	31	16 -44° 48.6	

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30

608	1.4	-2.7		10235	22 29	16
	50.4	-1.9		10230	22 24	45
	5.6		22 27 46.2	22 23 14.5	8	
	201.6		-44 43.1	-44 44.0	284	
			+1.30	+7.6		
605	-1.3	-6.0	"			
	47.6	-5.0	"			
	-5.2				-7	
	190.4				268	
606	-9.7	-16.4	"			
	39.0	-15.4	"			
	-38.8				-55	
	156.0				220	
607	-15.3	-6.4	"			
	33.6	-5.4	"			
	-61.2				-86	
	134.4				190	
611	-22.6	-6.6	"			
	26.3	-5.2	"			
	-90.4				-127	
	105.2				148	

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-44°	35.5	22	29	24	-44° 38.2	/
-44°	36.4	22	29	29	-44° 38.3	
1.41		22	29	27	-44° 38.2	
"		22	29	9	-44° 41.5	eeF VS
"		22	29	13	-44° 41.4	
		22	29	11	-44° 41.4	
"		22	28	21	-44° 51.9	2 v m bM
"		22	28	25	-44° 51.8	
		22	28	23	-44° 51.8	
"		22	27	50	-44° 41.9	2
"		22	27	55	-44° 41.8	
		22	27	52	-44° 41.8	
"		22	27	9	-44° 42.1	/
"		22	27	13	-44° 41.6	
		22	27	11	-44° 41.8	

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35

609	-26.8	-11.3	10235	22	29	16
	21.8	-10.0	10230	22	24	45
	-107.2		22 27 46.2 22 23 14.5		-151	
	87.2		-44 43.1 -44 44.0		123	
			+1.30 +7.6			
610	-355	-43	"			
	13.4	-2.7	"			
	-142.0				-200	
	53.6				76	
246	-0.3	12.7	10235	22	29	16
	37.8	-11.4	10232	22	25	43
	-1.2		22 27 46.2 22 24 13.4		-2	
	151.2		-44 43.1 -44 18.9		212	
			+1.30 +7.6			
250	-15.0	12.2	"			
	23.7	-12.0	"			
	-60.0				-85	
	94.8				134	
249	-13.0	20.1	"			
	25.7	-38	"			
	-52.0				-73	
	102.8				145	

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6	−44°	35.5	22	26 45	−44° 46.8	eF ~~a5~~ 9 vm 6M
15	−44°	36.4	22	26 48	−44° 46.4	
	1.41		22	26 46	−44° 46.6	
	"		22	25 56	−44° 39.8	2 v 1 E @ >5° 6M
	"		22	26 1	−44° 39.1	
			22	25 59	−44° 39.4	
16	−44°	35.5	22	29 14	−44° 22.8	/
43	−44°	11.3	22	29 15	−44° 22.7	
	1.40		22	29 14	−44° 22.8	
	"		22	27 51	−44° 23.3	eF v S 96M
	"		22	27 57	−44° 23.3	
			22	27 54	−44° 23.3	
	"		22	28 3	−44° 15.4	/
	"		22	28 8	−44° 15.1	
			22	28 6	−44° 15.2	

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40

258	−10.8	−14.0	9633	22 28 4	−4
	11.3	−2.2.	10233	22 26 0	−4
	−43.2		22 26 35.0 22 24 31.4	−61	
	45.2		−43 59.9 −44 11.3	64	
			1.29 +7.7		
256	−15.0	−7.2 −8.7	"		"
	7.3	+4.7	"		"
	−60.0			−85	
	29.2			41	
918	11.6	−13.8	10228	22 23 47	−4
	1.3	7.3	10230	22 24 45	−
	46.4		22 22 17.0 22 23 14.5	65	
	5.2		−44 23.2 −44 44.0	7	
			+1.30 +7.6		
563	−10.0	1.9	9628	22 26 22	−9
	0.6	5.0	9625	22 25 27	−
	−40.0		22 24 53.0 22 23 58.3	−56	
	0.0		−43 13.2 −43 16.2	0.0	
			+1m29s +7.7		
255	30.0	6.8	9620	22 23 59	−4
	6.7	−19.1	9626	22 26 7	−4
	120.0		22 22 29.8 22 24 38.0	167	
	26.8		−43 48.7 −43 22.9	37	
			+1m29s +7.7		

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V

-43°	52.2	22	27	3	-44°	6.2	2 vgbm
-44°	3.6	22	27	4	-44°	5.8	
1.41		22	27	4	-44°	6.0	
"		22	26	39	-43°	59.4	1 bm
"		22	26	41	-43°	58.9	
		22	26	40	-43°	59.1	
-44°	15.6	22	24	52	-44°	29.4	2
-44°	36.4	22	24	52	-44°	29.1	
1.41		22	24	52	-44°	29.2	this measurement most likely not very accurate because of large comp. ×s.
-43°	5.5	22	25	26	-43°	3.6	@F vs E @ 50° Spin
-43°	8.5	22	25	27	-43°	3.5	
1.39		22	25	26	-43°	3.6	
-43°	41.0	22	26	46	-43°	34.2	1
-43	15.2	22	26	44	-43°	34.3	
1.41		22	26	45	-43°	34.2	

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45

252	8.3 Z −15.0 −0.2 33.2 −60.0	2.7 Z −23.2 −21.3	9620 9626 22 22 530 22 2438.0 −43 48.7 −43 22.9 +1 29 +7.7	22 23 59 22 26 7 46 −84
251	9.7 Z −13.5 38.8 −54.0	7.3 −18.5 Z −25.1	"	54 −76
251	18.4 Z −4.7 73.6 −18.8	7.2 Z −18.7	"	103 −26
254	23.0 Z −0.1 −12.9 92.0 −0.4	5.0 4.8 −21.0 Z −18.1	"	129 −1
253	20.0 Z −3.9 −14.9 80.0 −12.0	0.9 Z −25.0 −22.6	"	120. −17

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-43°	41.0	22	24	45	-43°	38.3	2 E@ 70° bM
-43°	15.2	22	24	43	-43°	38.4	s/p ris
1.40		22	24	44	-43°	38.4	
"		22	24	53	-43°	33.7	eFRR vs bM 9/06
"		22	24	51	-43°	33.7	
		22	24	52	-43°	33.7	
"		22	25	42	-43°	33.8	eeF vs R
"		22	25	41	-43°	33.9	
		22	25	42	-43°	33.8	
"		22	26	8	-43°	36.0	1 1E@ 45° bM
"		22	26	6	-43°	36.2	
		22	26	7	-43°	36.1	
"		22	25	59	-43°	40.1	1
"		22	25	50	-43°	40.2	
		22	25	54	-43°	40.2	

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1923phae.proj.2306C

50

259	11.3	10.6	9633	22 28 4
	9.7	-6.6	9634	22 28 14
	45.2		22 26 35.0 22 26 45.0	64
	38.8		-43 59.9 -43 42.7	55
			+1.29 +7.7	
264 0	17.2	7.22	"	"
	15.6	~~11.3~~	"	"
	68.8	-10.0		97
	62.4			88
260	9.7	4.8	"	
	8.0	-12.4	"	
	38.8			55
	32.0			45
257	-5.1	9.7	"	"
	-6.7	-7.5	"	"
	-20.4			-29
	-26.8			-38
562	9.4	10.4	9628	22 26 22
	-9.0	-5.9	9456	22 28 2
	37.6		22 24 53.0 22 26 33.3	53
	-360		-43 13.2 -42 57.1	-51
			+1.29 +7.7	

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1923phae.proj.2306C

-43°	52.2	22	29	8	-43° 41.6	2
-43°	35.0	22	29	9	-43° 41.6	
1.41		22	29	8	-43° 41.6	
"		22	29	41	-43° 45.0	2
"		22	29	42	-43° 45.0	
		22	29	42	-43° 45.0	
"		22	28	59	-43° 47.4	2
"		22	28	59	-43° 47.4	
		22	28	59	-43° 47.4	
"		22	27	35	-43° 42.5	ee F es R
"		22	27	36	-43° 42.5	
		22	27	36	-43° 42.5	
-43°	5.5	22	27	15	-42° 55.1	ee F us R 16M
-42°	49.4	22	27	11	-42° 55.3	
1.41		22	27	13	-42° 55.2	

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414	7.8	2.3	9634	22 28 14	
	14.3	−24.4	9630	22 27 41	
	31.2		22 26 45.0 22 26 12.0	44	
	57.2		−43 59.9 −43 19.1	81	
			+1.29 +7.7		
535	8.7	8.4	"		
	15.1	−15.2	"		
	34.8			49	
	60.4			85	
555	8.0	14.7	"		
	14.3	−9.0	"		
	32.0			45	
	57.2			81	
556	6.1	−2.7	9626	22 26 7	
	−11.0	−6.7	9630	22 27 41	
	24.4		22 24 38.0 22 26 12.0	33	
	−44.0		−43 22.9 −43 19.1	−60	
			+1.29 +7.7		
532	14.1	1.5	"		
	−3.0	−2.3	"		
	56.4			77	
	−12.0			−16	

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1923phae.proj.2306C

V

-43°	35.0	22	28.58	-43°	32.7	1
-43°	11.4	22	29 2	-43°	32.8	
1.41		22	29 0	-43°	32.8	
"		22	29 3	-43°	26.6	2
"		22	29 6	-43°	26.6	
		22	29 4	-43°	26.6	
"		22	28 59	-43°	20.3	2
"		22	29 2	-43°	20.4	
		22	29 0	-43°	20.4	
-43°	15.2	22	26 40	-43°	17.9	2
-43°	11.4	22	26 41	-43°	18.1	
1.37		22	26 40	-43°	18.0	
"		22	27 25	-43°	13.7	eFus 1E@ 40°6M
"		22	27 25	-43°	13.7	spin?
		22	27 25	-43°	13.7	

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60

533	7.1 −18.8 28.4 −75.2	2.5 ~~7.5~~ ~~12.5~~ −12.3 R	9630 9636 22 26 12.0 22 28 34.0 −43 19.1 −43 4.7 +1.29 +7.7	22 27 41 22 30 3 39 −103
354	10.8 −15.0 ~~43.2~~ −60.0	6.~~6~~7 −8.0 ~~−3.3~~	〃 〃	59 −82
356	19.4 −6.7 77.6 −26.8	8.0 ~~7.8~~ −6.8 ~~1.8~~	〃 〃	106 −37
260	9.7 −399 38.8 −159.6	4.9 −25.5	9633 9638 22 26 35.0 22 31 10.0 −43 59.9 −43 30.2 +1.29 +7.7	22 28 4 22 32 39 54 −222
259	11.2 −38.4 44.8 −153.6 ✓	10.7 −19.7	〃 〃	62 −214

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-43°	11.4	22	28 20	-43°	8.9	eF vS 6M
-42°	57.0	22	28 20	-43°	9.3	
1.37		22	28 20	-43°	9.1	
"		22	28 40	-43°	4.7	2
"		22	28 41	-43°	5.0	
		22	28 40	-43°	4.8	
"		22	29 27	-43°	3.4	1
"		22	29 26	-43°	3.8	
		22	29 26	-43°	3.6	
-43°	52.2	22	28 58	-43°	47.3	2
-43°	22.5	22	28 57	-43°	48.0	
1.39		22	28 58	-43°	47.6	
"		22	29 6	-43°	41.5	2
"		22	29 5	-43°	42.2	
		22	29 6	-43°	41.8	

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65

264	17.2	6.0	96 33	22 28 4
	−32.3	−23.8	96 38	22 32 39
	68.8		22 26 35.0 22	96
	−129.2		−43 59.9 −43 30.2	−179
			+1.29 +7.7	
266	27.3	2.1	"	
	−22.1	−28.0	"	
	109.2			151
	−88.4			−123
265	27.1	7.8	"	
	−22.4	−22.3	"	
	108.4			150
	−89.6			−125
263	23.3	11.4	"	
	−26.4	−18.6	"	
	93.2			130
	−105.6			−147
262	24.6	13.9	"	
	−25.0	−16.4	"	
	108.4			150
	−100.0			−139

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-43°	52.2	22	29	40	-43°	46.2
-43°	22.5	22	29	40	-43°	46.3
1.39		22	29	40	-43°	46.2
"		22	30	35	-43°	50.1
"		22	30	36	-43°	50.5
"		22	30	36	-43°	50.3
"		22	30	34	-43°	44.4
"		22	30	34	-43°	44.8
"		22	30	34	-43°	44.6
"		22	30	14	-43°	40.8
"		22	30	12	-43°	41.1
"		22	30	13	-43°	41.0
"		22	30	34	-43°	38.3
"		22	30	20	-43°	38.9
"		22	30	27	-43°	38.6

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70

331	29.2 −20.3 116.8 −41.2	19.3 −10.9	9633 9638 22 26 35.0 −43 59.9 22 31 10.0 −43 30.2 +1.29 +7.7	22 28 4 22 32 39 162 −113
5-51	39.0 −10.6 156.0 −42.4	20.4 −9.7	〃 〃	216 −59
552	45.6 −4.0 182.4 −16.0	22.6 −6.5	〃 〃	253 −22
554 defect.				
564	10.9 −9.6 43.6 −38.4	3.0 1.6	9636 9637 22 28 34.0 −43 4.7 22 30 25.0 −43 3.1 +1.29 +7.7	22 30 3 22 31 54 60 −53
565	17.0 −3.6 68.0 −14.4	1.0 −0.6	〃 〃	93 −20

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4	-43° 52.2	22	30 46	-43°	32.9	z v m b M
39	-43° 22.5	22	30 49	-43°	33.4	
	1.79	22	30 48	-43°	33.2	
	"	22	31 40	-43°	31.8	z ~~□ shaped~~
	"	22	31 40	-43°	32.8	b, N
		22	31 40	-43°	32.3	
	"	22	32 17	-43°	29.6	z 1E @ 135° b M
	"	22	32 17	-43°	29.0	. Spin
		22	32 17	-43°	29.3	
3	-42° 57.0	22	31 3	-42°	54.0	z v m b M
4	-42° 55.4	22	31 1	-42°	53.8	
	1.37	22	31 2	-42°	53.9	
	"	22	31 36	-42°	56.0	z
	"	22	31 34	-42°	56.0	
		22	31 35	-42°	56.0	

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70

75

553	−4.6	9.6	9638	22 32 39
	23.9	−16.4	9636	22 30 3
	−18.4		22 31 10.0 28 34.0	−25
	95.6		−43 30.2 −43 4.7	132
			1.29 +7.7	
537	−23.1	3.4	"	
	5.5	−22.3	"	
	−92.4			−128
	22.0			30
232	−0.6	3.6	9639	22 33 35
	10.0	−21.4	9638	22 32 39
	−2.4		22 32 5.5 22 31 10.0	−3
	40.0		−43 55.3 −43 30.2	55
			+1.29 +7.7	
267	−4.0	−2.3	"	
	6.6	−27.4	"	
	−16.0			−22
	26.4			36
271	22.0	−4.3	9639	22 33 35
	−13.5	−9.6	9647	22 36 51
	18.0		22 32 5.5 22 35 21.5	122
	−54.0		−43 55.3 −43 50.0	−75
			+1.29 +7.7	

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1923phae..proj..2306C

-43°	22.5	22	32	14	-43°	12.9	2
42°	57.0	22	32	13	-43°	13.4	
1.38		22	32	14	-43°	13.2	
"		22	30	31	-43°	19.1	2 vmb M Vnr *
"		22	30	33	-43°	19.3	
		22	30	32	-43°	19.2	
-43°	47.4	22	33	32	-43°	44.0	2 vmbM RR glob.
-43°	22.5	22	33	34	-43°	43.9	
1.38		22	33	33	-43°	44.0	
"		22	33	13	-43°	49.9	1 R
"		22	33	15	-43°	49.9	
		22	33	14	-43°	49.9	
-43°	47.6	22	35	37	-43°	51.9	1
-43°	-42.3	22	35	36	-43°	51.9	
1.39		22	35	36	-43°	51.9	

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50

270	21.5	−3.3 2	96 39	22 33 35
	−14.0	−8.6	96 47	22 36 37
	86.0		22 32 5.5 22 35 21.5	119
	−56.0		−43 55.3 −43 50.0	− 77
			+1.29 +7.7	
268	15.6	7.3	"	
	20.0	1.7	"	
	62.4			87
	80.0			111
269	17.2	10.7	"	
	18.3	5.4	"	
	68.8			96
	73.2			102
6*				
233	2.6	0.5	9646	22 36 44
	16.1	−30.4	9644	22 35 30
	10.4		22 35 15.5 22 34 1.5	14
	64.4		−43 32.4 −43 1.9	89
			+1.28 +7.8	
541	−2.5	8.3	"	
	11.0	−22.5	"	
	−10.0			−14
	44.0 ✓			61

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V

	-43°	47.6	22	35	34	-43° 50.9	1
	-43°	42.3	22	35	34	-43° 50.9	
	1.39		22	35	34	-43° 50.9	
	"		22	35	2	-43° 40.3	1
	"		22	35	0	-43° 40.6	
			22	35	1	-43° 40.4	
	"		22	35	11	-43° 46.9	1
	"		22	35	9	-43° 46.9	
			22	35	10	-43° 46.9	
	-43°	2 46	22	36	58	-43° 24.1	2 RR
	-43°	54.1	22	36	59	-43° 23.7	
	1.38		22	36	58	-43° 23.9	
	"		22	36	30	-43° 16.3	2
	"		22	36	31	-43° 16.6	
			22	36	30	-43° 16.4	

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85

540	-2.7	15.4	9646	22 36	44
	10.8	-15.4	9644	22 35	30
	-10.8		22 35 15.5 22 34 1.5	-15	
	42.8		-43 32.4 -43 1.9	59	
			+1.28 +7.8		
539	-7.2	17.7	"		"
	6.4	-13.0	"		"
	-28.8			-40	
	25.6			35	
538	-10.7	19.7	"		"
	3.0	-11.0	"		"
	-42.8			-59	
	12.0			17	
570	-9.2	26.5	"		
	4.5	-4.4	"		
	-36.8			-51	
	18.0			25	
571	-11.1	28.3	"		
	2.4	-2.6	"		
	-44.4			-61	
	9.6			13	

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V

4	-43°	24.6	22	36	29	-43°	9.2	1
0	-43°	54.1	22	36	29	-43°	9.5	
	1.38		22	36	29	-43°	9.4	
	"		22	36	4	-43°	6.9	2 v m i b M a/m *
	"		22	36	5	-43°	7.1	
			22	36	4	-43°	7.0	
	"		22	35	43	-43°	4.9	1
	"		22	35	47	-43°	5.1	
			22	35	45	-43°	5.0	
	"		22	35	53	-42°	58.1	2
	"		22	35	55	-42°	58.5	
			22	35	54	-42°	58.3	
	"		22	35	43	-42°	56.3	2
	"		22	35	43	-42°	56.7	
			22	35	43	-42°	56.5	

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90

544	−1.6	−18.0	9649	22 38 21
	−11.1	19.2	9650	22 39 10
	−6.4		22 36 50.5 22 37 41.5	− 9
	−44.4		−43 7.9 −43 44.9	− 61
			+1.28 +7.8	
543	7.7	−12.9	"	
	−1.7	+24.4	"	
	30.8			42
	−6.8			− 9
542	4.5	−2.8	"	
	−5.1	34.3	"	
	18.0			25
	−20.4			− 28
550	16.7	12.9	9650	22 39 10
	0.6	−21.1	9652	22 40 39
	66.8		22 37 41.5 22 39 11.0	92
	2.4		−43 44.9 −43 10.0	3.
			+1.28 +7.8	
549	15.0	14.0	"	
	~~−5.7~~	−19.9	"	
	−0.9			
	60.0			82
	−3.6			− 5

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-43°	0,1	22	38	12	-43°	18.1	1 6M
-43°	37.1	22	38	9	-43°	17.9	
1.37		22	38	10	-43°	18.0	
"		22	39	3	-43°	13.0	2 V/E @ 50°
"		22	39	1	-43°	12.7	
		22	39	2	-43°	12.8	
"		22	38	46	-43°	2.9	2
"		22	38	42	-43°	2.8	
		22	38	44	-43°	2.8	
-43°	37.1	22	40	42	-43°	24.2	2
-43°	2.2	22	40	42	-43°	23.3	
		22	40	42	-43°	23.8	
1.37							
"		22	40	32	-43°	23.1	2
"		22	40	34	-43°	22.1	
		22	40	33	-43°	22.6	

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95

548

16.4
0.4
~~3.8~~
65.6
1.6

22.7
-11.1

9650
9652

22 39 10
22 40 39

22 37 41.5 22 39 11.0
-43 44.9 -43 10.0
+1.28 +7.8

90
2

546

7.8
~~8.1~~
~~12.4~~
31.2
-32.4

27.8
-6.1

"

"

43
-44

545

6.6
~~9.5~~
~~13.8~~
26.4
-38.0

28.3
-5.6

"

"

36
-52

547

10.0
6.1
~~10.4~~
40.0
-24.4

27.7
-6.3

"

"

55
-33

502

-2.4
11.7
-9.6
46.8

4.7
-16.7

9657
9652

22 40 26.5 22 39 11.0
-43 32.7 -43 10.0
+1.27 +7.8

22 41 54
22 40 39
-13
64

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0	-43°	37.1	22	40 40	-43°	14.4	1
39	-43°	2.2	22	40 41	-43°	13.3	
	1.37		22	40 40	-43°	13.8	
	"		22	39 53	-43°	9.3	1
	"		22	39 55	-43°	8.3	
			22	39 54	-43°	8.8	
	"		22	39 46	-43°	8.8	2
	"		22	39 47	-43°	7.8	
			22	39 46	-43°	8.3	
	"		22	40 5	-43°	9.4	2
	"		22	40 6	-43°	8.5	
			22	40 6	-43°	9.0	
-4	-43°	24.9	22	41 41	-43°	20.2	2 gumbm E @ 45°
39	-43°	2.2	22	41 43	-43°	19.9	spin
	1.37		22	41 42	-43°	20.0	

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80

100

503	-1.2 ~~13.0~~ ~~8.7~~ -4.8 52.0	11.1 -10.3	96 57 56 52 22 40 26.5 22 39 11.0 -43 32.7 -43 10.0 +1.27 +7.8	22 41 54 22 40 39 -7 71
531	-1.2 ~~13.0~~ ~~8.7~~ -4.8 52.0	19.0 -2.5	"	-7 71
288	-8.8 6.3 -35.2 25.2	7.6 -27.5	10270 9657 22 41 50.1 22 40 26.5 -44 7.2 -43 32.7 +1.27 +7.8	22 43 17 22 41 54 -48 35
404	-5.4 9.8 -21.6 39.2	11.2 -23.7	" "	-30 54
282	-5.4 9.8 -21.6 39.2	12.1 -22.8	" "	-30 54

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-43°	249	22	41	47	-43°	13.8	2 v m b M R R a/m *
-43°	2.2	22	41	50	-43°	12.5	
1.37		22	41	48	-43°	13.6	
"		22	41	47	-43°	5.9	/
"		22	41	50	-43°	4.7	
		22	41	48	-43°	5.3	
-43°	594	22	42	29	-43°	51.8	/
-43°	24.9	22	42	29	-43°	52.4	
1.37		22	42	29	-43°	52.3	
"		22	42	47	-43°	48.2	/
"		22	42	48	-43°	48.6	
		22	42	48	-43°	48.4	
"		22	42	47	-43°	47.3	/ 6m
"		22	42	48	-43°	47.7	
		22	42	48	-43°	47.5	

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5

403	-6.1	14.8	10270	22 43 17
	9.0	-20.1	9657	22 41 54
	-24.4		22 41 50.1 22 40 26.5	-33
	36.0		-44 7.2 -43 32.7	49
			+1.27 +7.8	
290	-17.2	18.8	"	
	8.1	-16.1	"	
	-28.8			-39
	32.4			44
283	-0.6	21.6	"	
	14.6	-13.3	"	
	-2.4			-3
	58.4			80
289	-7.7	21.8	"	
	7.3	-13.1	"	
	-30.8			-42
	29.2			40
505	-10.6	26.4	"	
	4.6	-8.6	"	
	-42.4			-58
	18.4			25

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1923phae.proj.23060

7	~~43°~~ 43°	59.4	22	42	44	-43° 44.6 / 6/11
74	-43°	24.9	22	42	43	-43° 45.0
	1.37		22	42	44	-43° 44.8
	"		22	42	38	-43° 40.6 / 6M Ralm.*
	"		22	42	38	-43° 41.0
	"		22	42	38	-43° 40.8
	"		22	43	15	-43° 37.8 2 spis 6M E@
	"		22	43	14	-43° 38.2 90°
	"		22	43	14	-43° 38.0
	"		22	42	37	-43° 37.6 /
	"		22	42	34	-43° 38.0
	"		22	42	36	-43° 37.8
	"		22	42	19	-43° 33.6 2
	"		22	42	19	-43° 33.5
	"		22	42	19	-43° 33.2

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84

10

512	30.0 ~~29.7~~ −11.6 120.0 −46.4	+0.2 ~~6.9~~ +8.4	9652 9663 22 39 11.0 22 42 55.8 −43 10.0 −43 19.3 +1.27 +7.9	22 40 38 22 44 23 164 − 64
511	27.9 ~~23.6~~ −13.7 111.6 −54.8	−1.3 ~~5.3~~ +7.0	〃 〃	153 − 75
507	1.3 −13.3 5.2 −53.2	−7.3 18.0	9663 9664 22 42 55.8 22 44 14.8 −43 19.3 −43 44.8 +1.27 +7.9	22 44 23 22 45 42 7 − 73
509	2.6 −12.0 10.4 −48.0	−12.2 13.1	〃 〃	14 − 66
510	−1.0 −15.6 −4.0 −62.4	−17.2 8.2	〃 〃	−1 − 85

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✓

−43°	2.1	22	43 22	−43°	1.9	/
−43°	11.4	22	43 19	−43°	3.0	
	1.37	22	43 20	−43°	2.0	
"		22	43 11	−43°	3.4	/
"		22	43 8	−43°	4.4	
		22	43 10	−43°	3.9	
−43°	11.4	22	44 30	−43°	18.7	2 v m b M R spir
−43°	36.9	22	44 29	−43°	18.9	arms?
	1.37	22	44 30	−43°	18.8	
"		22	44 37	−43°	23.6	/
"		22	44 36	−43°	23.8	
		22	44 36	−43°	23.7	
"		22	44 22	−43°	28.6	2 v m b M ~~stellar~~? *
"		22	44 17	−43°	28.7	
		22	44 20	−43°	28.6	

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15'

508	6.7 −17.7 34.8 −70.8	−2.1 5.4	9663 9666 22 42 55.8 22 45 19.8 −43 19.3 −43 27.0 +1.27 +7.9	22 44 23 22 46 47 48 − 97
517	22.7 − 3.8 90.8 − 14.2	−5.2 2.3	" "	124 − 19
516	21.6 − 4.8 86.4 −19.2	−10.6 −3.2	" "	118 − 26
514	19.2 − 7.3 76.8 −29.2	−11.2 −3.7	" "	105 − 40
515	−7.9 3.9 −31.6 15.6 ✓	−10.9 7.0 ✓	9666 9664 22 45 19.8 22 44 14.8 −43 27.0 −43 44.8 +1.27 +7.9	22 46 47 22 45 42 − 44 22

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	-43°	11.4	22	45	17	-43° 13.5	2
	-43°	19.1	22	45	10	-43° 13.7	
	1.37		22	45	10	-43° 13.6	
	"		22	46	27	-43° 16.6	
	"		22	46	28	-43° 16.8	
			22	46	28	-43° 16.7	
	"		22	46	21	-43° 22.0	
	"		22	46	21	-43° 22.3	
			22	46	21	-43° 22.2	
	"		22	46	8	-43° 22.6	
	"		22	46	7	-43° 22.7	
			22	46	8	-43° 22.6	
	-43°	19.1	22	46	3	-43° 30.0	1 1611
	-43°	36.9	22	46	4	-43° 29.9	
	1.38		22	46	4	-43° 30.0	

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20

315	-6.3	-17.0	9666	22 46 47
	5.6	0.7	9664	22 45 42
	-25.2		22 45 19.8 22 44 14.8	-45
	22.4		-43 27.0 -43 44.8	31
			+1.27 +7.9	
518	4.3	-9.6	9666	22 46 47
	-0.7	27.6	10278	22 47 17
	17.2		22 45 19.8 22 45 49.6	24
	-2.8		-43 27.0 -44 3.9	-4
			+1.27 +7.9	
409	6.6	-17.1	"	
	1.7	20.0	"	
	26.4			36
	6.8			9
368	14.4	-21.7	"	
	9.3	15.4	"	
	57.6			79
	37.2			51
266	6.6	-25.3	"	
	1.6	11.7	"	
	26.4			36
	6.4 ✓	✓		9

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V

~~-43°~~	19.1	22	46 2	-43°	36.1	1 6 11
~~-43°~~	36.9	22	46 13	-43°	36.2	
1.38		22	46 7	-43°	36.2	
~~-43°~~	19.1	22	47 9	-43°	28.7	1
~~-43°~~	56.0	22	47 13	-43°	28.4	
1.37		22	47 11	-43°	28.6	
"		22	47 23	-43°	36.2	1
"		22	47 26	-43°	36.0	
		22	47 ~~24~~	-43°	36.1	
"		22	48 6	-43°	40.8	2 E@ 45° Spin
"		22	48 8	-43°	40.6	bs
		22	48 7	-43°	40.7	
"		22	47 23	-43°	44.4	1
"		22	47 26	-43°	44.3	
		22	47 24	-43°	44.4	

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25

367	7.2	−26.8	9666	22	46	47
	2.1	10.1	10278	22	47	~~47~~ 17
	28.8		22 45 19.8 22 45 49.6		39	
	8.4		−43 27.0 −44 3.9		12	
			+1.27 +7.9			
316	15.9	−27.3	"			
	10.8	9.7	"			
	63.6				87	
	43.2				59	
369	7.3	−6.1	9672	22	48	50
	−0.7	17.1	10280	22	49	35
	29.2		22 47 24.3 22 48 9.1		40	
	−2.8		−43 43.2 −44 6.8		−4	
			+1.26 +7.9			
363	4.4	−9.9	"			
	−3.7	13.4	"			
	17.6				24	
	−14.8				−20	
317	2.6	−11.0	"			
	−5.3	12.3	"			
	10.4				14	
	−2.2				29	

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17	-43°	19.1	22	47 26	-43°	45.9
17	-44°	56.0	22	47 29	-43°	45.9
	1.37		22	47 28	-43°	45.9
	"		22	48 14	-43°	46.4
	"		22	48 16	-43°	46.3
			22	48 15	-43°	46.4
0	-43°	35.3	22	49 30	-43°	41.4
5	-43°	58.9	22	49 31	-43°	41.8
	1.37		22	49 30	-43°	41.6
	"		22	49 14	-43°	45.2
	"		22	49 15	-43°	45.5
			22	49 14	-43°	45.4
	"		22	49 4	-43°	46.3
	"		22	49 4	-43°	46.6
			22	49 4	-43°	46.4

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30

362	7.0 -0.9 28.0 -3.6	-14.1 9.2	9672 10280 22 47 24.3 22 48 9.1 -43 43.2 -44 68 +1.26 + 7.9	22 48 50 22 49 35 38 -5
361	3.7 -4.3 14.8 -17.2	-15.7 7.4	" "	20 -24
370	11.6 3.6 46.4 14.4	-13.4 10.0	" "	64 20
234	-4.0 5.3 -16.0 21.2	-5.8 4.6	9676 9672 22 48 14.3 22 47 24.3 -43 32.9 -43 43.2 +1.26 +7.9	22 49 41 22 48 50 -22 29
410	-1.4 8.1 -5.6 32.4 ✓	-11.1 -0.5 ✓	" "	-8 45

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V

-43°	35.3	22	49	28	-43°	49.4	1 6M
-43°	58.9	22	49	30	-43°	49.7	
1.37		22	49	29	-43°	49.6	
"		22	49	10	-43°	51.0	1
"		22	49	11	-43°	51.5	
		22	49	10	-43°	51.2	
"		22	49	54	-43°	48.7	1 E @ 50°
"		22	49	55	-43°	48.9	
		22	49	54	-43°	48.8	
-43°	25.0	22	49	19	-43°	30.8	2 1E @ 100° 6M
-43°	36.3	22	49	19	-43°	30.7	
+1.38		22	49	19	-43°	30.8	
"		22	49	33	-43°	36.1	1
"		22	49	35	-43°	35.8	
		22	49	34	-43°	36.0	

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35

411	6.8 −3.6 27.2 −14.4	−11.8 16.7	9676 10284 22 48 14.3 22 49 12.7 −43 32.9 −44 1.4 +1.26 +7.9	22 49 41 22 50 39 38 −20	—
373	11.6 1.2 46.4 4.8	−15.7 12.8	" "	64 7	"
523	22.7 3.0 90.8 12.0	−4.5 12.6	9677 9683 22 48 46.0 22 50 35.0 −43 13.1 −43 29.7 +1 25 +8.0	22 50 11 22 52 0 125 17	−1 −1
522	28.0 8.0 112.0 32.0	−6.1 11.0	" "	155 44	
520	12.4 −7.4 49.6 −29.6	−10.0 6.9	" "	68 −41	

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	−43° 25.0	22	50	19	−43° 36.8	2
	−43° 53.5	22	50	19	−43° 36.8	
	1.38	22	50	19	−43° 36.8	
	"	22	50	45	−43° 40.7	2 16M
	"	22	50	46	−43° 40.6	
		22	50	46	−43° 40.6	
	−43° 5-1	22	52	16	−43° 9.6	1
	−43° 21.7	22	52	17	−43° 9.1	
	1.38	22	52	16	−43° 9.4	
	"	22	52	46	−43° 11.2	vS eeF 16M
	"	22	52	44	−43° 10.7	
		22	52	45	−43° 11.0	
	"	22	51	19	−43° 15.1	vS eF
	"	22	51	19	−43° 14.8	
		22	51	19	−43° 15.0	

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40

519	10.5	−12.4	9677	22 50 11	−4	
	−9.3	4.4	9683	22 52 0	−4	
	42.0		22 48 46.0	22 50 35.0	58	
	−37.2		−43 13.1	−43 29.7	−51	
			+1.25	+8.0		
521	15.3	−11.8	"			
	−4.5	5.0	"			
	61.2				84	
	−18.0				−25	
2	13.2	−15.6	"			
	−6.4	1.3	"			
	52.8				73	
	−25.6				−35	
528	25.4	−17.6	"			
	3.7	−0.5	"			
	101.6				141	
	22.8				31	
4/2	0.2	−15.3	9687	22 54 50	−4	
	−21.0	−0.1	9690	22 56 47	−4	
	0.8		22 53 25.2	22 55 22.2	1	
	−84.0		−43 29.0	−43 44.4	−116	
	✓	✓	+1.25	+8.0		

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	-43°	5.1	22	51	9	-43°	17.5	2
	-43°	21.7	22	51	9	-43°	17.3	
	1.38		22	51	9	-43°	17.4	
	"		22	51	35	-43°	16.9	2
	"		22	51	35	-43°	16.7	
			22	51	35	-43°	16.8	
			22	51	24	-43°	20.7	2 3.7′ x 3′ @ 187° 6M
			22	51	25	-43°	20.4	defect?
			22	51	24	-43°	20.6	
			22	52	32	-43°	22.7	2 6M
			22	52	31	-43°	22.2	
			22	52	32	-43°	22.4	
0	-43°	21.0	22	54	51	-43°	36.3	2
7	-43°	36.4	22	54	51	-43°	36.5	
	1.38		22	54	51	-43°	36.4	

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45

530	16.5	-6.1	9687	22 54 50
	-5.0	9.4	9690	22 56 47
	66.0		22 53 25.2 22 55 22.2	91
	-20.0		-43 29.0 -43 44.4	-28
			+1.25 +8.0	
527	5.0	-9.0	9689	22 55 49
	15.6	13.6	9687	22 54 50
	20.0		22 54 23.7 22 53 25.2	27
	62.4		-43 6.8 -43 29.0	85
			+1.25 +8.0	
525	14.4	-17.5	9689	22 55 49
	2.6	3.6	9691	22 56 52
	57.6		22 54 23.7 22 55 27.2	79
	10.4		-43 6.8 -43 27.6	14
			+1.25 +8.0	
386	8.2	-10.7	9690	22 56 47
	-27.6	-10.8	9697	23 0 5
	32.8		22 55 22.2 22 58 39.8	46
	-110.4		-43 44.4 -43 45.2	-153
			+1.25 +8.0	
384	23.1	-7.2	"	
	-12.7	-7.0	"	128
	92.4			-71
	-50.8 ✓			
		✓		

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V

-43° 21.0	22	56	21	-43°	27.1	vS eeF v16M
-43° 36.4	22	56	21	-43°	27.0	
1.38	22	56	21	-43°	27.0	
-42° 58.8	22	56	16	-43°	7.8	2 E@ 100° spin
-43° 21.0	22	56	15	-43°	8.4	v16M
	22	56	16	-43°	8.1	
1.37						
-42° 58.8	22	57	8	-43°	16.3	vS eeF 9 16M
-43° 19.6	22	57	6	-43°	16.0	
1.37	22	57	7	-43°	16.2	
-43° 36.4	22	57	33	-43°	47.1	/
-43° 37.2	22	57	32	-43°	48.0	
1.39	22	57	32	-43°	47.6	
"	22	58	55	-43°	43.6	2 E@ 95° spin
"	22	58	54	-43°	44.2	
	22	58	54	-43°	43.8	

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100

50

526	30.9	−17.7	9689	22 55 49		−4
	2.1	14.4	9695	22 58 25		−4
	123.6		22 54 23.7 22 57 0.2		171	
	8.4		−43 6.8 −43 38.8		12	
			+1.25 +8.0			
558	13.5	13.7	9443	22 24 19		−4
	−26.4	−1.3	9455	22 27 55		−4
	54.0		22 22 50.4 22 26 25.6		73	
	−105.6		−42 55.8 −42 41.4		−145	
			+1.29 +7.6			
559	16.3	2.8	"			
	−23.2	−12.0	"			
	65.2				89	
	−92.8				−127	
590	4.1	2.1	9456	22 25 2		−4
	5.9	−13.6	9455	22 27 55		−4
	16.4		22 26 33.3 22 26 25.6		22	
	23.6		−42 57.1 −42 41.4		32	
			+1.29 +7.6			
566	19.6	8.7	9463	22 30 29		−4
	−20.3	7.3	9470	22 34 5		−4
	78.4		22 29 0.3 22 32 36.3		107	
	−81.2		−42 37.5 −42 36.1		−110	
			1.29 +7.6			

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-42°	58.8	22	58	40	-43° 6.5	vS eeF vl6M
-43°	28.8	22	58	37	-43° 4.4	
	1.38	22	58	38	-43° 5.5	
-42°	48.2	22	25	32	-42 34.5	eeF vS
-42°	33.8	22	25	30	-42° 35.1	
	1.37	22	25	31	-42° 35.9	
"		22	25	48	-42° 45.4	/
"		22	25	48	-42° 45.8	
		22	25	48	-42° 45.6	
-42°	49.5	22	28	24	-42° 47.4	2
-42°	33.8	22	28	27	-42° 47.4	
	1.37	22	28	26	-42° 47.4	
-42°	29.9	22	32	16	-42° 21.2	2
-42°	28.5	22	32	15	-42° 21.2	
	1.36	22	32	16	-42° 21.2	

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55

576	34.1 − 5.6 136.4 − 22.4	−4.4 −5.8	9463 9470 22 29 0.13 22 32 36.3 −42 37.5 −42 36.1 +1.29 +7.6	22 30 29 22 34 5 184 − 30	−5 −4
577	32.4 − 7.4 129.6 −29.6	−4.5 −5.8	" "	177 − 40	
575	35.2 − 4.7 140.8 −18.8	−4.4 −5.9	" "	192 −26	
567	30.0 − 9.9 120.0 −39.6	−9.7 −11.2	" "	163 −54	
574	32.0 − 7.8 128.0 −31.2	−14.0 −15.5	" "	174 − 42	

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V

9	-42°	29.9	22 33 33	-42° 34.3	eeFW
5	-42°	28.5	22 33 35	-42° 34.3	
	1.36		22 33 34	-42° 34.3	
	"		22 33 26	-42° 34.4	1
	"		22 33 25	-42° 34.3	
			22 33 26	-42° 34.4	
	"		22 33 41	-42° 34.3	2
	"		22 33 39	-42° 34.4	
			22 33 40	-42° 34.4	
	"		22 33 12	-42° 39.6	2
	"		22 33 11	-42° 39.7	
			22 33 12	-42° 39.6	
	"		22 33 23	-42° 43.9	1
	"		22 33 23	-42° 44.0	
			22 33 23	-42° 44.0	

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104

9481

40

579	−18.1 11.8 −72.4 47.2	−14.3 3.4	9481 9474 22 37 12.8 22 34 29.8 −42 32.9 −42 50.1 +1.27 + 7.8	22 38 40 22 35 57 −98 64	−
578	−17.7 12.4 −70.8 49.6	− 9.4 8.3	〃 〃	−96 67	
580	−11.7 18.3 −46.8 73.2	−6.6 11.0	〃 〃	−63 99	
230	13.8 ~~9.5~~ −43.9 55.2 −175.6	10.4 ? −8.2 ~~3.8~~	9652 9496 22 39 11.0 22 44 22.4 −43 10.0 −42 53.2 +1.24 +8.0	22 40 37 22 45 48 74 − 236	−
229	18.1 ~~13.6~~ −38.8 72.4 −155.2 ✓	14.9 ? −3.6 ~~6.1~~	〃 〃	97 −208	

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V

	-42° 25.1	22	37	2	-42°	39.4	1
7	-42° 42.3	22	37	1	-42°	38.9	
	1.35	22	37	2	-42°	39.2	
	"	22	37	4	-42°	34.5	2
	"	22	37	4	-42°	34.0	
		22	37	4	-42°	34.2	
	"	22	37	37	-42°	31.7	2
	"	22	37	36	-42°	31.3	
		22	37	36	-42°	31.5	
7	-43° 2.0	22	41	51	-42°	51.6	1 16M
8	-42° 45.2	22	41	52	-42°	53.4	
	1.34	22	41	52	-42°	52.5	
	"	22	42	14	-42°	47.1	2
	"	22	42	20	-42°	48.8	
		22	42	17	-42°	48.0	

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65

581	27.0 ~~22.7~~ -30.6 108.0 -122.4	13.4 -5.0	9652 9496 22 39 11.0 22 44 22.4 -43 10.0 -42 53.2 +1.26 +8.0	22 40 37 22 45 ~~48~~ 145 -163	- -
582	31.6 ~~27.3~~ -25.7 126.4 -102.8	12.9 -5.5	" "	168 -138	
589	17.7 -26.8 70.8 -107.2	1.3 6.4	9496 9504 22 44 22.4 22 48 24.0 -42 53.2 -42 58.6 +1.26 +8.0	22 45 48 22 49 50 96 -146	- -
583	33.2 -11.2 132.8 -44.8	-2.4 3.0	" "	181 -61	
585	3.7 -20.1 14.8 -80.4	1.4 -21.6	9504 9507 22 48 24.0 22 50 33.8 -42 58.6 -42 35.9 +1.26 +8.0	22 49 50 22 52 0 20 -109	-

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7	-43°	2.0	22	43	2	-42°	48.6	2
8	-42°	45.2	22	43	5	-42°	50.2	
	1.34		22	43	7	-42°	49.2	
	4		22	43	25	-42°	49.1	1
	"		22	43	30	-42°	50.7	
			22	43	26	-42°	49.9	
8	-42°	45.2	22	47	24	-42°	43.9	1
0	-42°	50.6	22	47	24	-42°	44.2	
	1.36		22	47	24	-42°	44.0	
	"		22	48	49	-42°	47.6	2 c b M
	"		22	48	49	-42°	47.6	
			22	48	49	-42°	47.6	
0	-42°	50.6	22	50	10	-42°	49.2	2 a lm *
0	-42°	27.9	22	50	11	-42°	49.5	
	1.36		22	50	10	-42°	49.4	

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7°

584	2.0	3.6	9504	22	49	50
	-21.7	-79.4	9507	22	52	0
	8.0		22 48 24.0 22 50 33.8		11	
	-86.8		-42 58.6 -42 35.9		-118	
			+1.26 +8.0			
586	5.5	16.4	"			
	-18.7	-6.4	"			
	22.0				30	
	-74.8				-102	
587	13.7	20.5	"			
	-10.4	-2.2	"			
	54.8				75	
	-42.0				-57	
	✓	✓				

Completed, meaning August 13, 1923.
" Reducing Dec. 28, 1923.

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	−42° 50.6	22	50	1	−42° 47.0	2
	−42° 27.9	22	50	2	−42° 47.3	
	1.36	22	50	2	−42° 47.2	
	"	22	50	20	−42° 34.2	1
	"	22	50	18	−42° 34.3	
		22	50	19	−42° 34.2	
	"	22	51	5	−42° 30.1	1
	"	22	51	3	−42° 30.1	
		22	51	4	−42° 30.1	

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