1859phac.proj..248

KG
11365
248

L.10

Reduction of

Zones. L.

&c. reductions

1859.

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this volume contains the
chronograph record of certain Zones
observed in 1859 but no reductions
of any sort

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Zone (1) Zone (2)

Mar. 31. 1859
At Beginning -

Bar. 29.832
Att. Ther. 69
Ext. Ther. 37.5

10h	1m	14.6	18.4	10h	1m	14.5	18.5
	1	53.2	57.2		1	53.1	57.2
	2	12.8	16.9		2	12.7	16.9
		B.					
	2	42.1	46.1		2	42.0	46.1
	3	9.9			3	9.9	
	3	13.3	17.1			13.2	17.1
		35.5	39.5			35.6	39.7
		59.3	63.5			59.4	63.4
		D. B.					
	5	4.8	8.7		5	4.8	8.8
		41.3	45.5			13.2	17.1
		53.2					
	6	38.1	42.2		6	38.2	42.0
		B.				B.	
	7	28.2	32.1		7	28.4	32.3
	8	23.5	27.3				
	9	3.0	7.0		9	2.9	7.2
		49.8	53.7			49.9	54.0
		56.0	59.9			56.2	60.3
	10	25.3	29.6		10	25.6	29.7
		31.9	35.9			32.1	36.1
		49.9	54.0			50.0	53.9
		B. B.					
	11	19.7	23.8		11	19.9	24.0
		27.6	31.4			27.6	31.7
	12	1.5	5.5		12	1.7	5.7
		39.5	43.5		12	39.7	11.16 43.6
		B. D.				B.	
	13	54.9	58.8		13	54.8	59.0
	14	—	5.8				
	14	—	51.7				

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9	42	39.6	63.4		9	42	59.5	63.5
	43	38.2	42.2			43	38.1	42.2
	43	57.8	61.9			43	57.7	61.9
	44	27.1	31.1			44	27.0	31.1
	44	54.9	—	3 wire lost.		44	54.9	— 3 wire lost.
	44	58.3	62.1			44	58.2	62.1
	45	20.5	24.5			45	20.6	24.7
	45	44.3	48.5			45	44.4	48.4
	46	49.8	53.7	3 31		46	49.8	53.8 3 36
	46					46	58.2	62.1 9 18
	47	26.3	30.5	3 10				
	47	38.2	—	5 40				
	48	23.1	27.2	10 0		48	23.2	27.0 10 1
	49	13.2	17.1			49	13.4	17.3
	50	8.5	12.3					
	50	48.0	52.0			50	47.9	52.2
	51	34.8	38.7			51	34.9	39.0
	51	41.0	44.9			51	41.2	45.3
	52	10.3	14.6			52	10.6	14.7
	52	16.9	20.9			52	17.1	21.1
	52	34.9	39.0			52	35.0	38.9
	53	4.7	8.8			53	4.9	9.0
	53	12.6	16.4			53	12.6	16.7
	53	46.3	50.5			53	46.7	50.7
visible		emission				53		56.6
	54	24.5	28.5			54	24.7	28.6
	55	39.9	43.8	4 30		55	39.8	44.0
	55	—	50.8	6 28				
	56	—	36.7	1 59				

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9h 14m		56.7	10	14	52.7	56.6
	B.					
17	54.2	58.2		17	54.5	58.4
18	11.3	15.2		18	11.4	15.2
	24.4	28.4				
	D. B. D.					
19	55.9	59.6		19	56.1	
				20		1.9
21		14.4		21	10.3	14.3
22	21.8	25.5		22	21.9	25.9
	39.0				38.8	42.9
	42.4					
	49.7	53.5		23		53.9
	B. D. B.					
24	24.3	28.5		24	24.4	28.4
25	3.0	6.7		25	2.9	7.0
	49.0	52.8				
				26	13.3	17.1
	B.					
	D.			26	56.9	60.9
27	51.4	55.3		27	51.2	55.4
29	13.6	17.5				
	30.5	~~30.5~~		29	30.5	34.5
		35.9			32.1	36.2
30	15.1	19.2		30	15.2	19.5
	40.0	43.8			39.9	43.9
	B. B.					
32	9.2	13.1		32	9.1	13.1
	28.6	32.6			28.8	32.6
	43.7	47.6			43.7	47.4
	45.8	49.9			46.0	49.8
	B					
33	46.3	50.2		33	46.3	50.1
34	25.6	29.7		34	25.8	29.7
36	13.6	—				
	←	44.8		36	41.0	44.9
37	15.4	19.5		37	15.8	19.8

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9	56.	~~9 56~~	~~41.7~~	9	56	39.7	41.6
9	59	39.2	43.2		59	39.5	43.4
	59	56.2	60.2		59	56.4	60.2
10	0	9.4	13.4				
	1	40.9	41.1	10	1	41.1	
		H. ow.			1		46.9
	2	~~59.9~~	59.4		2	55.3	59.3
	4	6.8	10.5		4	6.9	10.9
	4	14.0			4	23.8	27.9
	4	27.4					
	4	34.7	38.5		4		38.9
	6	9.3	13.5		6	9.4	13.4
	6	48.0	51.7		6	47.9	52.0
	7	34.0	37.8				
					7	58.3	62.1
		Star omitted					
	9	36.4	40.3		9	41.9	45.9
					9	36.2	40.4
	10	54.6	62.5				
	11	15.5			11	15.5	19.5
	11		20.9			17.1	21.2
	12	0.1	4.2		12	0.2	4.5
	12	25.1	28.8			24.9	28.9
	13	54.2	58.1		13	54.1	58.1
	14	13.6	17.6		14	13.8	17.6
	14	28.7	32.6		14	28.7	32.4
	14	30.8	34.9		14	31.0	34.8
	15	31.3	35.2		15	31.3	35.1
	16	10.6	14.7		16	10.8	14.7
	17	58.6					
	18		29.8		18	26.0	29.9
10	19	0.4	4.5	10	19	0.8	4.8

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10 37m	45.3	—
	54.9	59.0
	R. B.	
38	51.9	55.9
39	11.6	15.4
	D.	
40	30.8	34.6
41	27.7	(31.3)
41	33.3	37.1
	58.7	62.9
42	26.4	30.4
	47.3	51.5
	B.	
43		9.7
43	14.2	
44	37.4	41.4
45	0.8	4.8
	3.5	7.3
		9.8
	B. B.	
	55.7	59.7
47	10.7	14.9
	31.5	
	40.0	44.2
48	33.0	
	B	
50		11.65
	13.2	
		16.0
51	5.3	9.2
51	50.6	
52	46.0	50.2
	D. B.	
53	26.3	30.2
	38.9	42.7
54	33.8	
	43.5	47.7
	52.8	
55	45.8	
	55.0	59.0

10 37	45.1	49.3
	55.0	59.0
	D. B.	
38	52.2	56.0
39	11.3	15.5
	B.	
40	31.1	34.9
41	27.7	31.5
	33.5	37.5
	58.8	63.1
42	26.5	30.4
44	37.4	41.4
45	0.8	4.8
	3.3	7.4
	55.7	59.7
47	10.7	14.8
	31.6	35.3
	40.2	44.2
48	33.7	
	B. B.	
50	8.8	
	11.4	15.3
	11.8	15.8
51	5.1	9.3
	51.1	54.7
52	46.2	50.1
	B.	
53	26.5	30.4
	39.0	42.9
54	33.7	37.7
	43.3	47.3
	52.2	
55	45.8	49.9
	55.2	59.3

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10	19	30.3		10	19	30.1	34.3
	19	39.9	44.0		19	40.0	44.0
	20	36.9	40.9		20	37.2	41.0
	20	56.6	60.6		20	56.3	56.5
	22	15.8	19.6		22	16.1	19.9
	23	12.7			23	12.7	16.5
	23	14.3	22.1		23	18.5	22.5
	23	43.7	47.9		23	43.8	48.1
	24	11.4	15.4		24	11.5	15.4
	24	32.3	36.5				
	24		54.7				
	24	59.2					
	26	22.4	26.4		26	22.4	26.4
	26	45.8	49.8		26	45.8	49.8
		48.5	52.3		26	48.3	52.4
			54.8				
	27	40.7	44.7		27	40.7	44.7
	28	55.8	59.9		28	55.7	59.8
	29	16.5			29	16.6	20.3
	29	25.0	29.2		29	25.2	29.2
	30	18.0			30	18.7	
	31		58.2		31	53.8	
	31	56.6			31	56.4	60.3
	31		61.0		31	56.8	60.8
	32	50.3	54.2		32	50.1	54.3
	33	35.6			33	36.1	39.7
	34	31.0	35.2		34	31.2	35.1
	35	11.3	15.2		35	11.5	15.4
	35	23.9	27.7		35	24.0	27.9
	36	18.8			36	18.7	22.7
	36	28.5	32.7		36	28.3	32.3
	36	37.2			36	37.2	
	37	30.8			37	30.8	34.9
	37	40.0	44.0		37	40.2	44.3

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10h	56m	11.4	15.5		10	56	~~15.7~~	15.7
		B.					B.	
	56		48.3			56	44.5	48.6
		58.2	62.0				57.9	61.9
	57	8.2	12.2			57	8.2	12.4
		21.9	25.9				22.0	26.0
		B.						
	57	51.6	55.4					55.6
	58	~~53.4~~ 2.3				58	2.4	6.2
	58		7.0				2.4	7.1
		D.B.					B.D.	
11	0	38.1	42.1		11	0	38.1	42.3
	1	15.7	19.5			1	15.7	19.6
		31.3	35.3				31.2	35.3
	2	22.9	26.9			2	22.9	26.8
		31.6					31.7	35.3
		37.8						
		B.B					B.B.B.	
11	4	52.8	56.7			4	52.6	56.4
	5	16.7	20.5			5	16.6	20.3
	6	0.7	4.8			6	0.8	4.5
		B.					B.	
	6	33.2	37.4			6		37.4
	8	33.7	37.6					
	10	5.7	9.6			10		9.4
		45.5	49.4				45.9	49.8
	11	18.2	22.4			11	18.3	22.4
		B					D.B.	
	12	5.7	9.6			12	5.7	9.8
		21.3	25.4				21.3	25.7
	13	35.0	38.8			13	35.0	39.0
	14	1.0	5.3			14	1.5	5.3
		32.2	35.9					35.7
		38.8	42.8				38.8	42.8
	15	3.3	7.2			15	3.3	7.3
		B.B					B.D.B	
	15	48.6	52.5					
		59.4	63.3				59.4	63.4
	16	20.7	24.7			16	20.6	24.7
	16	50.0	54.0				50.1	54.0

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10	37	56.4	60.5	10	37		60.3
	38		33.3		38	29.5	33.6
	38	43.2	47.0		38	43.9	46.9
	38	53.2	57.2		38	53.2	57.4
	39	6.9	10.9		39	7.0	11.0
	39	36.6	40.4		39		40.6
	39	47.0			39	47.4	51.2
	39		52.0		39	48.4	52.1
	42	23.1	27.1		42	23.1	27.3
	43	0.7	4.5		43	0.7	4.6
	43	16.3	20.3		43	16.2	20.3
	44	7.9	11.9		44	7.9	11.8
	44	16.6			44	16.7	20.3
	44	22.8					
	x						
	46	37.8	41.7		46	37.6	41.4
	47	1.7	5.5		47	1.6	5.3
	47	45.7	49.8		47	45.8	49.5
	48	18.2	22.4		48		2.4
	50	14.7	22.6		4		
	51	50.7	54.6		51		54.4
	52	30.5	34.4		52	30.9	34.8
	53	3.2	7.4		53	3.3	7.4
	53	50.7	54.6		53	50.7	54.8
	54	6.3	10.4		54	6.3	10.7
	55	20.0	23.8		55	20.0	24.0
	55	46.0	50.3		55	46.5	50.3
	56	17.2	20.9		56		20.7
	56	23.8	27.8		56	23.8	27.8
	56	48.3	52.2		56	48.2	52.3
	57	33.6	37.5		8		
	57	44.4	48.3		57	44.4	48.4
	58	5.3	9.7		58	5.6	9.7
10	58	35.0	39.0		58	35.1	39.0

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	D.				
18	8.0	12.3			
	28.6	32.4			
19	18.0	21.7			
	31.0	35.2			
	B.				
19	54.4	58.6			
22	40.3	44.3			
23	22.3				
		26.5			
	B				
24	34.1	38.4			
	47.7	51.6	11 24	47.7	
	D.B.				
26	19.2	22.9			
	34.3	38.2			
	56.1	59.9			
27	34.5	38.4	27	34.7	38.7
	57.2	61.3		57.2	61.0
	B.			D.	
29	3.0	7.3	29	3.1	7.3
30	10.0	14.3	30	10.2	14.2
	39.0	43.1		39.2	43.1
31	0.6	4.5	31	0.7	4.8
	30.0	33.5		29.8	33.6
	B.			B.B.	
32	4.9	8.9	32	4.9	9.2
32	48.7	—		48.7	52.8
	—	54.0		50.3	54.3
	59.3	63.4		59.6	63.5
33	26.3	30.2	33	26.3	30.3
	B.B.			D.B.	
35	15.0	19.0	35	15.1	19.2
	29.0	33.0		29.2	33.0
36	0.3	4.3	36	0.3	4.4
	39.0	42.9		38.7	43.0
	56.9	60.4		56.7	0.5
37	24.0	28.2	37	24.1	28.1
	D.B.			D.B.	

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10	59	53.0	57.3				
11	0	13.6	17.4				
	1	3.0	6.7				
	1	16.0	20.2				
	1	39.4	43.6				
	4	25.3	29.3				
	5	7.3					
	5		11.5				
	6	19.1	23.4				
	6	32.7	36.6	11	6	32.7	
	8	4.2	7.9				
	8	19.3	23.2				
	8	41.1	44.9				
	9	19.5	23.4		9	19.7	23.7
	9	42.2	46.3		9	42.2	46.0
	10	48.0	52.3		10	48.1	52.3
	11	55.0	59.3		11	55.2	59.2
	12	24.0	28.1		12	24.2	28.1
	12	45.6	49.5		12	45.7	49.8
	13	15.0	18.5		13	14.8	18.6
	13	49.9	53.9		13	49.9	54.2
	14	33.7			14	33.7	37.8
	14		39.0		14	36.3	39.3
	14	44.3	48.4		14	44.6	48.3
	15	11.3	15.2		15	11.3	15.3
	17	0.0	4.0		17	0.1	4.2
	17	14.0	18.0		17	14.2	18.0
	17	45.3	49.3		17	45.3	49.4
	18	24.0	27.9		18	23.7	28.0
	18	41.4	45.4		18	41.7	45.5
11	19	9.0	13.2	11	19	9.1	13.1

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1850	37	51.9		11	37	52.4	56.3
	38	55.8	59.9		38	56.1	50.0
		54.9	58.9			54.9	59.1
		59.9				59.9	64.3
		B.					
	39	53.5	58.0		39	53.6	57.2
	40	25.2	33.2		40	22.9 / 29.2	27.0 / (32.8) ?
		31.0	34.8			30.7	34.7
	41	17.7	—		41	17.5	
		—	21.6				21.4
		D.				D.B.	
	42	55.4	53.4		42	49.4	53.5
		57.5	61.5			57.4	
	43	15.3	15.4		43	15.4	19.4
		27.9	31.2			27.0	31.3
		B.B.				D.	
	44	56.4	60.4		44	56.5	60.7
	45	9.9	14.0		45	10.0	14.2
		43.1	47.0				
	46	21.3	25.8		46	21.5	25.8
		38.9	(43.2)			39.2	
		(42.4)	46.7			42.7	46.8
			50.8				50.6
	48	41.1	45.2		48	41.0	45.0
	49 / 50	22.7 / 25.6	25.9 / 29.5		49 / 50	22.2 / 25.6	26.0 / 29.6
	50	31.2			50	31.8	35.9
			36.6				36.5
		B.				B B B	
	51	21.4	25.3		51	21.7	25.7
		57.6	61.7			57.9	61.8
	52	3.0	7.3		52	3.4	7.5
		B.B.				B.B.B	
	52	31.2	35.2		52	31.5	35.7
	53	20.1				50.5	54.3
	54	21.2	25.4		53	21.1	25.3
		24.3	28.3			24.3	28.5
	54	4.0	8.1		54	4.4	8.2
		13.1	17.2				
		B.D.				B. B.	

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1859phae.proj..248.

11	19	36.9		11	19	37.4	41.3
	20	30.0	34.9		20	31.1	35.0
	20	39.9	43.9		20	39.9	44.1
	20	44.9			20	44.9	49.3
	21	38.5	43.0		21	38.6	42.2
	Nau	omitted			22	7.9	12.0
	22	14.2	18.2		22	14.2.	
	22	16.0	19.8		22	15.7	19.7
	23	2.7			23	2.5	
	23		6.6		23		6.4
	24	34.4	38.4		24	34.4	38.5
	24	42.5	46.5			42.4	
	25	0.3	4.4		25	0.4	4.4
	25	12.4	16.2			12.0	16.3
	26	41.4	45.4		26	41.5	45.7
	26	54.9	59.0		26	55.0	59.2
	27	28.1	32.0				
	28	6.3	10.8		28	6.5	10.8
	28	23.9	28.2			24.2	
	28	27.4	31.7			27.7	31.8
	28		35.8				35.6
	30	26.1	30.2		30	26.0	30.0
	31	7.2	10.9		31	7.2	11.0
	32	10.6	14.5		32	10.6	14.6
	32	16.2	——		32	16.8	20.9
	32	——	21.6		32		21.5
	33	6.4	10.3		33	6.7	10.7
		42.6	46.7		33	42.9	46.8
	33	48.0	52.3		33	48.4	52.5
	34	16.2	20.2		34	16.5	20.7
	35	5.1			34	35.5	39.3
		6.2	10.4		35	6.1	10.3
		9.0	13.3		35	9.2	13.5
		49.0	53.1		35	49.4	53.8
		58.1	62.2				

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1859phae.proj..248.

				11	54		58.9
1859	55	47.5	51.5		55	47.7	51.8
	56	41.7	45.5		56	41.6	45.5
	56		49.5				49.1
	57	28.3	32.1		57		32.3
	8	43.9	48.0			44.5	48.3
		B.				B.	
	58	18.5	22.4		58	18.5	22.6
		(34.9)	38.1			34.2	38.2
	59	18.7	22.9		59	19.0	23.1
12	0	27.6	31.8	12	0	27.4	32.5
		B.B.				B.B.D.	
	4	3.6	7.7		4	3.7	7.6
		30.5	34.5			30.6	
		45.4	49.4			45.3	49.6
	5	~~12.6~~	12.6				12.7
		16.1	20.2		5	16.4	20.5
		19.1	23.2			19.3	23.2
		52.1	56.4			51.9	55?
		D.B.				D.B.	
	6	41.0	45.2		6	41.2	
	9	35.0	38.9		9	35.0	38.9
		52.4	56.5				
	10	14.4	18.5		10	14.4	18.6
		21.0	25.0			21.3	25.3
		B.B.B				B.	
	11		28.3		11	24.0	28.2
		26.3				26.0	30.2
	12	6.2	10.1		12	6.1	10.2
	13	7.9	11.8		13	7.8	11.9
		32.9	36.9			33.1	37.0
		40.3	44.4			40.3	44.0
		D.B.D.				B.B.	
	14	29.7	33.6				
		50.6				?	
		~~53.4~~	54.4				?
	16	19.3	23.1		16	18.9	23.3
		27.5	31.4				31.2
		54.6	58.5			54.8	
	17	9.4	13.5		17	9.6	13.4

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11	36		33.9				
11	37	32.5	36.5	37	32.7	36.8	
	38	26.7	30.5	38	26.6	30.5	
	38		34.5	38		34.1	
	39	13.3	17.1	39		17.3	
		28.9	33.0	39	29.5	33.3	
	40	3.5	7.4	40	3.5	7.6	
		~~18~~	23.1	40	19.2	23.2	
	41	3.7	7.9	41	4.0	8.1	
	42	12.6	16.3	42	12.4	16.5	
	45	48.6	52.7	45	47.7	52.6	
	46	15.5	15.5	46	15.6		
	46	30.4	34.4	46	30.3	34.6	
	46		57.6	46		57.7	
	47	1.1	5.2	47	1.4	5.5	
	47	4.1	8.2	47	4.3	8.2	
	47	37.1	41.4	47	36.7		
	48	26.0	30.2	48	26.2		
	51	20.0	23.9	51	20.0	23.9	
	51	37.4	41.5	51			
	51	59.4	63.6	51	59.4	63.6	
	52	6.0	10.0	52	6.3	10.3	
	53		13.3	53	9.0	13.2	
	53	11.3		53	11.0	15.2	
	53	51.2	55.1	53	51.1	55.2	
	53	52.9	56.8	54	52.2	56.9	
	55	17.9	21.9	55	18.1	22.0	
	55	25.3	29.4	55	25.3	29.0	
	56	14.7	18.6				
	56	35.6					
	56		39.4				
	58	4.3	8.1	58	3.9	8.3	
	58	12.5	16.4	58		16.2	
	58	39.6	48.5	58	39.8		
11	58	54.4	58.5	58	54.6	58.4	

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1899phae.proj..248

17	25.3	29.4		12 17	25.4	29.6
	42.6	46.7			42.7	
	B.B.					
18	17.3	21.1		18	17.3	
	43.6	47.4			43.4	47.5
	54.0	58.1			53.6	57.8
19	22.6	26.5		19	22.4	26.6
	30.0	34.1			30.0	34.2

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Standard Catalogue Stars for Zones (Chaw (2)

M. 1859.0	Wt.	Nq.	Dec. 1859.0	Wt.
10 26 48.57	1	9.10	42 35.0	1
38 47.77	1	9.	39 20.0	1
38 53.09	1.	9.	50 21.6	1
41 27.85	1.	9.	42 12.9	1
53 50.91	8	7.	48 8.7	8
55 20.12	4	8.	39 46.2	4.
56 23.70	6.	6.7	45 26.0	6.
56 47.97	1	8.	43 41.1	1.
59 15.77	1	8.	39 2.5	1.
11 3 10.93	3.	7.	41 48.5	9.
6 32.98	10	5.	41 49.0	11.
14 32.86	7	9	47 35.4	8
14 35.11	1	9	43 8.0	1.
14 44.54	1	9	49 22.6	1.
12 30 10.82	1	9	46 11.3	1
10 30.60	1	9	48 49.1	1

See beginning.

9 43 0.29	2	7.	45 36.2	2.
43 12.24	1	8.	45 34.1	1.
44 58.52	5	7.	44 12.7	5

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Zone (3)

9	43		28.1?
	43		53.9
	44	23.2	27.1
	45	3.3	7.2
		43.9	
		47.4	51.4
		B B.	
	47	41.7	
		~~45.8~~	49.7
	48	42.6	~~46.7~~
	49	51.2	55.3
		D.	
	50	29.4	33.5
		D B.	
	52	27.4	31.5
	53	24.0	27.8
	53	37.0	
	54	13.2	17.2
Brok	~~55~~	~~1.9~~	~~5.2~~
	55	1.3	5.2
		21.7	25.7
		45.1	49.0
	56	13.2	17.0
		D. B.	
	57	2.9	6.6
		39.6	43.5
		41.0	45.2
		B.	
	59	22.4	26.2
		24.3	28.2
10	0	35.4	39.4
	1	14.1	18.1
	2	13.4	17.2
		24.2	28.2
		B. B.	

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1859phae.proj..248

3	20.3	24.1
4	10.6	14.7
	47.4	51.5
5	21.8	25.8
6	55.1	59.0
	D.B.	
7	58.2	62.0
8	4.3	8.5
	58.5	62.4
9		3.2
	9.2	13.0
	B.	
10	21.2	25.2
	24.1	28.2
	39.5	43.4
11	3.9	7.7
	35.1	39.2
	B.B.	
12	0.9	4.9
	24.8	28.4
	B.	
13	0.6	4.4
	21.8	25.5
		49.7
	56.6	60.6
	D.B.	
14	54.4	58.4
16	2.2	6.1
	4.2	8.0
	20.5	24.6
	B.	
17	12.8	16.8
18	21.1	25.1
	38.0	42.0
19	9.1	13.2
	36.7	40.8
	B.B.	

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1859phae.proj..248.

19	59.5	63.4
20	3.0	6.7
21	38.6	42.4
		53.2
22	7.4	11.3
	D.	
2	45.6	49.7
23	33.3	37.3
24	15.4	19.2
26	9.2	13.2
	37.6	41.5
~~27~~	B	
27	38.0	42.1
	43.6	47.6
29	37.7	41.7
	54.6	58.4
30	9.4	13.5
	B.B.	
30	47.3	51.2
32	22.9	26.8
	50.0	54.0
33	53.6	58.3
34	7.6	11.9
	23.1	27.0
	31.9	35.9
B.D. 36	~~11.9~~	~~15.8~~
26	11.9	15.8
37	29.4	
38	15.6	19.7
		20.6
	29.4	
	37.6	41.7
	40.2	44.2
	B.	
40	24.3	28.3
	50.8	55.3
41	12.0	16.1
	34.0	38.0
42	44.5	48.5
B.B. 43	25	29.6

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1859phae.proj..248.

1859	43	25.5	29.6
	44	4.3	8.3
	45	1.8	5.8
		36.4	40.1
		D.B.	
	46	15.8	19.8
		52.0	56.0
	47	40.6	44.5
		41.0	45.0
		47.3	51.3
		B.	
	49	41.1	45.2
	50	26.9	31.0
	51	3.2	7.2
		B.D.B.	
	52	25.9	29.6
	53	31.8	35.8
		45.6	49.6
		58.0	62.1
	55	2.7	6.8
		B.	
	55	46.5	50.5
	56	52.2	56.2
	57	28.2	32.2
		D.B.	
	58	19.9	24.0
		59.9	63.9
	59	17.4	21.4
		31.1	35.1
		B.	
11	0	3.1	6.9
		25.2	29.2
		59.0	62.9
		D.	
	2	53.0	56.0
	3	3.0	7.0
	4	0.7	
		6.0	9.8
		14.6	18.5

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1859phae.proj..248.

4	52.0	56.0
5	0.7	4.8
	27.2	31.0
	42.1	46.1
	50.3	54.2
	B.B	
7	39.5	43.4
8	11.0	14.7
	D.	
11	14.1	18.1
		27.3
	47.0	50.5
12	2.2	6.2
	B.B.	
	55.8	59.8
13	22.7	26.8
	46.2	50.3
14	18.4	22.3
	48.4	52.4
15	12.8	16.8
	23.6	27.7
	27.4	31.6
16		21.3
	D.B.	
17	12.4	16.6
	28.6	32.6
	B.B	
18	34.5	38.4
19	0.6	4.6
20		58.3
21	13.5	17.4
	22.1	26.1
	40.7	44.7
	B.B.	
23	57.1	60.8
24	15.0	
	55.0	59.0
25	13.6	17.6
	46.8	50.7

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1859phae.proj..248.

26	16.0	20.1
	44.1	48.5
27	13.0	17.0
	B.	
27	56.8	60.8
28	19.2	23.3
	34.1	38.1
	D	
29	52.7	56.9
31	21.0	25.2
	59.1	63.1
32	12.3	16.4
	59.3	62.4
	B. B.	
34	7.4	11.3
	48.1	52.3
35	29.6	33.5
	B.	
36	20.2	24.1
37	40.5	44.5
39	26.5	30.5
	29.5	33.7
	48.8	52.9
40	23.9	28.0
	39.4	—
	D. B.	
43	25.0	28.6
	39.7	43.4 B.
45	11.2	15.4
46	36.1	40.1
47	14.5	18.4
	25.2	29.2
	45.8	49.7
48	1.8	5.8
	B. D.	
	58.8	62.9
49	33.4	37.5
50	18.3	22.4
51	0.5	4.4
	7.6	11.7

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1850phae.proj..248.

51 30.2 34.2
42.6 46.6
B.
54 6.6 10.7
7.1 11.1
(21.0 ?)
37.0 41.0
B.B.

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1859phae.proj..248.

1859.

Zone (41 Aug. 29

12	0	1.6	5.6
		28.0	32.0
		38.3	42.1
	1	6.8	10.8
		14.3	18.5
		D.	
	2	15.5	23.5
		B.	
	3	40.2	44.1
	5	24.5	28.6
	6	25.8	29.8
		B.B.	
	6	55.9	59.9
	7	35.7	39.9
	8	3.8	7.7
		37.8	41.8
		B.D.	
	10	10.6	14.6
		13.8	17.7
		30.9	34.3
		B.	
	11	37.0	41.0
		38.5	42.5
	12	40.1	44.1
	13	20.3	24.4
		D.B.	
	14	43.3	47.2
	15	5.6	9.6
		17.8	21.7
	16	32.2	36.0
	17	41.2	45.1
		B.D.B.	
	18	26.8	30.9
	19		6.4
	20		44.9
		B.	
	21	27.6	—

Zone (5) Aug 30.

12	0	1.4	5.6
		27.8	31.9
		38.4	42.3
	1	6.7	10.9
		14.4	18.4
		B.	
	2	15.6	23.5
		D.	
	3	40.3	44.8
		B.	
	5	24.6	28.5
	6	26.2	30.0
		D.	
		55.9	59.8
	7	36.0	40.1
	8	3.9	8.0
		37.8	
		D.B.	
	10	10.7	14.9
		13.9	17.8
		30.6	34.6
		D.	
	11	37.0	41.0
		38.7	42.7
	12	40.5	44.2
	13	17.6	21.2
	13	20.8	24.7
		B.	
	14	43.3	47.4
	15	5.7	9.8
		18.0	21.9
	16	32.2	36.2
	17	41.2	45.3
		D.B	
	18	27.0	30.9
	19	2.8	6.8
		B.	
	21		31.5

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1959phae.proj..248.

22	~~4.1~~ 17.1		22	10.2	14.3
	17.2			17.3	21.2
23	16.8	20.9	23	16.8	20.9
	30.1	34.1		30.0	34.1
	B.B.			D.B.	
24	0.3	4.5	24		4.5
	1.1	5.0		0.9	5.1
	26.9	30.7		27.1	31.1
	B.			D	
25	39.0	43.1	25	39.4	43.1
26	22.3	26.3	26	22.3	26.4
26	49.4	53.8		49.5	53.2
27	16.9	20.8	27	17.1	20.9
	18.5	22.3		18.5	22.4
	29.8	33.6		29.9	33.7
	B.			D	
28	0.0				
	14.0	18.1	28	14.0	18.1
29	53.1	57.1	29	53.0	57.0
	58.3	62.3	30		2.4
30	9.7	13.7		9.6	13.7
	B.B.			B.	
	57.4	61.3		57.5	61.0
31	27.3	31.0	31	27.4	31.2
	44.1	48.1		44.4	48.2
	54.6	58.6		54.6	58.6
	B.D.			D.	
33	38.9	43.0	33	39.0	43.0
34	18.8	22.7	34	19.6	23.8
35	22.3	26.4	35		
	56.0	60.1		56.2	60.1
	56.8	60.8		57.0	60.9
37	7.3	11.2	37	7.4	11.2
	B.B.			D, B	
38	6.3	10.2	38	6.7	10.5
39	8.2	12.3	39	8.4	12.3
	42.5	46.6		42.2	46.4
40	0.1	4.0			
	D.B.				
	36.7	40.6	40	36.8	40.6

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1859phae.proj..248.

12	41	46.1	50.0
	42	18.0	
		55.0	58.6
~~43~~	~~4~~		
43		4.7	8.7
		26.9	31.0
		30.0	33.9
		B.B.	
44		2.0	6.0
45			15.0
	4	47.7	51.8
		B.D.	
46		41.8	45.5
47		16.2	19.8
		47.2	51.3
48		19.1	
		25.5	29.6
		B.	
50		27.8	31.8
51		8.4	12.5
53		38.8	42.9
			47.7
		B.B.	
56		10.8	14.8
		D.B.	
57		53.1	57.2
		55.5	59.2
		56.3	60.2
58		36.8	40.8
59		0.3	4.3
0		15.7	15.6
~~59~~		~~0.3~~	~~26.3~~
~~13~~		B.	
0		23.3	27.4
		44.2	48.2
1		20.1	24.1
		32.9	36.6
2		13.5	17.8
			26.2

12	41	46.2	50.0
	42	18.2	22.5
		52.9	56.7
43		4.5	8.5
		27.1	31.0
		30.2	34.1
		B.	
44		2.4	6.2
45		9.7	13.7
		11.3	15.1
		47.9	51.6
		D.B.	
46		41.7	46.1
47		47.3	51.6
48		19.5	23.5
		25.9	29.8
		B.	
50		28.0	32.0
51		8.7	12.7
53		39.6	42.7
		44.1	48.0
54		53.5	57.6
		57.2	61.2
55		12.7	16.8
56		10.6	
		11.9	15.5 B.
57			57.8
		55.6	59.7
		56.3	(~~60.2~~)(60.9)
58		37.0	41.2
59		0.2	4.3
		16.1	20.0
		17.4	21.5
		B.B.	
13	0	23.4	27.5
		44.6	48.4
	1	20.4	24.4
		32.9	36.5
	2	20.7	24.9

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13	2	41.7	45.7
		B. B.	
	3	42.0	46.1
		50.9	55.1
		B.	
	4	(28.3)	32.7
	5	14.7	18.9
	6	33.6	37.9
		47.0	51.1
	7	~~16.0~~	19.2
		16.0	20.0
		27.1	31.0
		D.	
	8	9.9	13.8
	10		4.7
		27.5	31.1
	11	6.2	10.3
		48.6	52.7
	12	4.6	8.6
		B.	
	13	50.3	54.2
		59.4	63.7
	14	~~55.0~~ D.	
	14	55.0	58.9
	15	28.2	32.2
	16	10.7	14.8
		D.	
	18	30.8	34.9
	19	46.9	51.1
	20	11.1	15.2
		B.	
	21	35.4	39.2
	22	10.7	14.7
		35.2	39.1
	23	23.9	28.0
		B.	
	24	53.6	57.5
	25	22.7	26.7

13	2	41.8	45.7
		B.	
	3	42.1	46.1
		B	
	4	29.0	32.9
	5	14.8	18.9
	6	34.0	37.8
		47.2	51.3
		B.	
	7	15.4	19.4
		16.2	20.2
			31.2
		B.	
	8	10.0	14.0
		B. B.	
	10	0.8	4.6
		27.6	31.3
	11	6.3	10.2
		48.3	52.1
	12	4.8	8.7
		B. D.	
	13	50.4	54.3
	14		3.8
		B.	
	4	55.1	
	15	28.5	32.4
	16	11.0	14.9
		D B.	
	19	47.3	51.2
	20	11.5	15.5
		B. B.	
	21	35.4	39.4
	22	11.1	14.9
		35.6	39.4
	23	23.9	28.1
		D.	
	24	30.1	33.9
		53.8	58.0
	25	23.0	26.9

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26	50.7	54.5	13 25	49.8	53.7
	58.6	~~64.8~~	26	50.8	
	—	62.8		58.8	62.6
	B.B.			59.2	63.0
				B.	
28	37.7	42.6	28	36.1	42.0
29	16.2	20.4	29	16.2	20.3
	23.7	27.7			
	B.				
30	11.8	15.8	30	11.9	15.9
			31	10.5	
31	24.5	—		24.3	28.1
	43.1	46.9		43.3	47.2
	D.B.			46.0 B.	50.3
32	51.7	55.7			
34	23.9	27.7	34	24.1	28.0
35	26.6	30.3	35	26.7	30.5
	B.			D.B.	
35		53.6	~~35~~	49.7	53.5
36	12.1	16.1	36	12.2	16.3
			36	B.	24.5
37	41.7				
38	2.3	6.3	38	2.4	6.2
	20.6	24.5		20.8	24.8
39	5.0	5.0	39	5.4	9.2
	B.B.			B. D.	
40	29.5		40	29.6	34.0
41	1.8	5.8	41	2.0	6.1
41		10.3			
42	35.2	39.1	42	35.2	39.4
43	10.4	14.3	43	10.5	14.3
	42.0	45.8		42.4	46.0
	47.0	51.0		47.4	51.1
	BD			B.	
44	57.7	61.8			
46	25.5	29.4	46	26.1	29.9
47	22.0	26.1	47	21.9	25.9
	B.D.B			B.B.	
48	130	—	48	13.5	17.2
	330	37.0		33.1	37.0

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13	49	12.5	16.4
	49	17.6	21.5
	51		4.5
		8.5	
		B. B	
	52	31.7	35.7
		53.3	57.3
		B. B.	
	53	55.0	
	55	16.5	20.5
		22.3	26.3
		B.	
	56	52.9	57.0
	57	35.7.	
		55.0	59.2
		B.	
	58	39.0	43.2
			47.2
	59	35.3	39.2
		53.3	57.3
		B.	B.
14	1	26.7	31.0
	2	(18.2.)	
	2	18.6	22.8
			26.3
		31.2	35.4
	3	20.6	24.6
		D.	
	3	57.1	60.7
	4	16.7	20.7
		B.	
	5		31.9
	7		39.9
	8		15.0
	8	22.7	26.5

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Zones (61 and (71 50' – 60'

11	54	43.8	—	11	54	43.4	—
		—	46.0			—	47.6
	55	13.9	17.9		55	13.7	17.7
		B.B.					
56.		27.9			56	(28.4	31.1)
		33.1	36.9			33.0	37.1
		43.3	47.3			43.2	46.9
		D.				B.	
	57	20.2	24.1		57	20.1	24.0
		28.9	32.8			28.7	32.6
	58	6.7	10.6		58	(6.6)	~~6.6~~
	10	22.7	26.9			22.5	26.4
		36.5	40.5			36.5	40.4
		52.2	56.3			52.0	56.1
		B.				D.	
	59	17.0	21.0		59	16.9	20.8
		36.9	—				
		D.B.				D.B.D.	
12	0	26.1					
		36.4	42.5	12	0	38.3	42.2
	1	13.6	17.7		1	13.3	17.2
		D.					
12	2	58.0	61.9				
	4	12.3	16.2	12	~~4~~	12.2	16.1
	20	17.4	21.4		17	17.5	21.4
		53.7	57.8			53.6	57.5
		B.B.				B.	
	5	25.4	29.3		5	25.2	29.1
		28.2	32.3				32.0 ?
		31.5	35.3			31.1	35.1
	6	0.2	4.2				
		1.8	5.7				
	7	16.7	21.1		7	17.4	20.8
		34.2					
		34.9	39.0			34.5	38.6
		D.					
30	8	52.7	57.9		8	52.8	56.7
	9	1.8	5.6		9	1.7	5.6
		23.0	26.9			22.8	26.8
		53.2	57.2			53.0	
	10	33	37.3		10	33	37

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B. B.

D.

B.

D. B.

B.

D.

D.

D.

B.

B. D.

9 8 43

9 8 38

B. B.

B.

B.

D.

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				12	17	0.1
						23.8
						B.
						4.0
						27.9
18	25.5	33.6				
19	33.3	37.0				
19	47.9	51.9		12	19	47.8
	54.7	—				51.8
20	12.7	16.7		20		12.7
20	—	26.5				16.5
	B.B.					
20	48.7	52.4		20		48.6
						52.4
21	5.3	13.2				
	14.2	18.3				
	D.					
				22		27.8
						31.8
22	44.6	48.4				44.6
		51.3				48.1
	D.					
23	27.2	31.3		23		27.3
						31.3
24	4.4	8.4				
	25.2	29.2		24		25.1
						29.1
	B.					
25	2.5	6.3				

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B.		B	
9.10	.43	10.9	40

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12h 25	35.7	39.7	12h 25	35.7	39.6
	B. B.				
27	20.9	24.7	27	20.7	24.7
	D.				
27	56.0	60.0	27	55.8	
28	0.6	4.4	28	0.3	4.2
	5.3				
	38.5	42.6		38.8	42.7
	52.2	56.3		52.2	56.1
	B. B.			D. B.	
25	53.5	57.5			
30	14.4	18.4	30	14.4	18.3
30	57.5	D.			
31	19.9	23.8	31	19.9	23.8
32		56.2		D	
	B. B.				
33	20.6	24.7	33	20.6	24.4
	26.6	30.7		(26.9)	30.4
		38.4			
	D.			D. B.	
34	45.5	49.5	34	45.3	49.3
35	8.9	13.0	35	8.3	12.7
	33.8	37.9		33.6	37.7

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B.B. D.B

D. B.

. .

B.D. D.B.

D.

9 937 y 933

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B.

12	36	0.7	4.9
	37	3.3	7.1
		8.0	11.6
		34.6	38.7
			(50.0)

B.

	36	8.7	12.8
		49.9	53.9
	39		35.4
		38.7	42.7

B.B.

	40	20.7	24.5
		49.9	53.8

D.

	41	49.1	53.0
		50.9	54.9
	42	34.7	38.8
	42		42.8

B.D.B.
D)

	42	54.2	55.3
	44	25.9	29.8
	44	38.6	42.6

D.

	45	14.6	18.6
		52.7	56.5
	46	23.1	27.1

12	37	7.4	11.3
		34.7	38.5

	38	06.5	12.5
		49.8	53.7
	39	31.2	35.2
		38.6	42.7

D.

	40	20.8	
		49.7	53.7

B.

	41	48.9	
		50.7	54.9
	42	34.5	38.4
			42.7

BD

	44	25.7	29.7
	44	38.3	42.4
	45	14.5	18.4
		52.6	56.5
	46	23.1	27.1

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B.

B

BB.

D.

BDB

8 1 14
D.
9.10 9 55

B.D.B.

B.

D.

B.

B.D.

8 1 10
B.
9.10 9 46

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				12 47	2.9	
					27.5	31.3
					B.	
48	24.7	28.8		48	24.9	28.8
	38.0	42.0			38.1	42.0
	B.				B. B.	
49	33.0	37.1		49	32.8	36.8
	33.9	38.0			33.8	37.7
					D. D.	D.
50	52.4	56.5		50	52.4	56.3
51	30.5	34.2		51	30.7	34.6
	~~47.~~					
	47.3	51.4			47.2	51.2
52	59.2	63.3		52	59.1	63.1
53	39.2	43.2		53	39.2	43.1
	47.5	51.4				
54	12.6	16.6		54	12.6	16.5
	~~D. B. D.~~				D. B.	
55	32.6	~~36.7~~		55	32.6	
	43.0	47.1			42.8	47.0
~~56~~	~~26.5~~	—			B.	
56	26.5			56		30.0
57	12.1	16.2		57	12.3	16.1
~~57~~	19.5	23.4		57	19.3	23.2
	31.1	35.2		~~58~~		
					B. B.	
58	14.3	18.3		58	14.2	18.2
	20.6				20.7	
	23.9	27.6			23.7	27.7
	42.9	46.8			42.5	46.6
	D. B.				B.	
13 0	9.3	13.1		13 0	9.1	13.1
	23.6	27.7			23.5	27.4
	D.				B	
2	42.0	45.9		2	41.9	45.7
	59.7	63.7			59.7	63.8
3	18.8	22.7				
	28.9	32.7		3	28.6	32.3

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13 6 29
B. B.

B.
12 5 24
12 9 6
B.
12 7 30

B.

D. B. D.

B. B.

10 40

B. B

✓

B.

13 6 21
11.12 4 0
B.

D. B. D. B.
11.12 5 20
12.13 9 0

12.11 7 25
B.
13 3 13

✓
✓

D. B.

B.

14 10 39
B. B.

B. D.

D.

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B	5	29.3	33.3	13	5	29.4	33.3
		41.6	45.6			41.5	45.4
		B.					
	6		0.4		6	3.9	8.3
		~~41.3~~	~~46.7~~				
		12.3	18.2				
		59.0	63.0			58.9	62.9
	7	11.9	15.9		7	11.8	15.8
		D.					
		47.4	51.3				
	8	3.9	7.8				
	9	55.1	59.2		9	55.0	59.0
	10	7.5	11.5		10	7.2	11.0
			16.3			12.3	16.1
		39.0	43.0			38.7	42.8
		53.0	56.9			52.8	56.7
		D.B.					
	11	47.8	52.0		11	47.8	51.8
					12	30.1	34.0
	13	18.4	22.3		13	18.2	22.2
	13	58.3	62.2			58.1	62.2
	14	8.5	12.4		14	8.2	12.3
						17.9	22.1
	14	40.4	44.3			40.0	43.8
	15	20.3	24.1		15	20.0	24.0
		B.B.				B.D.	
	16	2.9	6.8				
		27.4	31.4		16	27.4	31.2
	17	2.2	6.1		17	1.8	5.9
		13.1	16.8				
		—	23.7				23.6
		B.D.					
	18	29.8	33.7				
		(59.?)	63.5		18	59.1	63.3
	19	12.6	16.4		19	12.3	16.1

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20	13.6	17.6		13	20	13.4	17.3
	33.8	37.7				33.7	37.5
21	5.2	9.2			21	5.0	8.9
	42.8	46.8					
	D					D.B.	
22	1.4	5.4			22	1.4	~~5.3~~
	33.3	37.3					5.3
	B.				22	33.1	37.0
						B.	
23	11.3	15.0			23	10.9	15.0
	D.B.					D.	
25	26.8	30.6			25	26.5	30.7
	43.0	47.0				42.8	47.1
26	13.2	17.3			26	13.1	17.0
	B.						
26	51.0	54.9				50.8	54.7
	59.1	63.1				58.8	62.8
27	6.4	10.3			27	6.3	10.4
	34.6	38.6				34.7	38.5
	B. B.						
4	58.2	62.0				57.8	62.1
28	27.4	30.1			28		
	36.1	40.1				35.4	39.9
29	24.1	28.1			29	23.9	28.0
	B.					D.B.	
29	53.0	56.6			29	52.7	56.4
30	10.6	14.6			30	10.3	14.3
	18.0						
	48.3	52.2				48.1	52.1
	59.4	63.3				59.3	63.2
31	23.8	27.7			31	23.6	27.6
	40.5	44.4				40.0	44.3
	B.B.						
32	12.4	16.4					
	40.7	44.7					
	D.B.D.						
35	40.5				35	40.5	44.5
	42.2	46.0				42.1	45.9
	45.0	48.9				44.5	48.5
	58.8	62.5				58.4	62.4
36	30.0	33.9			36	29.8	33.9

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13 37	3.0	7.3
	6.7	10.9
	47.4	51.4
38	7.5	11.3
	15.1	15.0
	20.0	23.9
	52.2	56.1
	D.B.	
39	44.3	48.2
40	0.5	4.4
	36.2	40.2
	42.2	46.1
~~41~~	B.B	
41	5.3	9.2
42	28.9	33.0
43	10.7	14.5
	17.3	21.0
	B	
45	18.5	22.3
46	13.3	17.4
	27.2	31.0
	B.B.	
	59.6	63.5
47	25.6	29.5
48	15.7	19.6
	50.1	54.2
49	21.6	
	37.5	41.5
	B.	
50	49.9	53.9
51	43.2	47.2
52	12.0	15.8
53	0.6	4.5
	19.8	23.8
	30.2	34.0
	54.9	58.9

13 37	2.8	6.8
		10.8
	47.2	51.1
38	7.2	11.3
	14.9	18.8
	19.7	23.8
	52.1	56.1
39	44.1	48.0
40	0.4	4.4
	36.1	39.9
	41.9	45.7
41	5.0	8.7
	~~44.4~~ 4	
	45.4	49.5
42	28.8	32.6
	30.2	34.4
43	10.4	14.4
	17.0	20.9
	BD.	
45	18.1	22.2
46	13.1	16.9
	26.8	30.7
	B.	
	59.5	63.5
47	25.6	29.4
48	15.5	19.4
	49.8	53.8
49	21.4	25.3
	37.4	41.4
	B.D.	
50	49.9	53.9
51	42.8	46.9
52	11.7	15.7
53	0.3	4.1
	19.7	23.6
	29.8	
	54.7	58.7

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13	54	25.3	29.4	13	54	25.4	29.3
		51.0	55.1			50.9	55.0
	~~55~~	~~24.3~~	~~28.1~~				
	~~55~~						
	55	24.3	28.1		55	23.9	27.9
	56	7.7	11.7		56	7.4	11.4
	57	14.0	18.0		57	13.9	17.8
		16.1	20.0			16.1	19.7
		21.9	25.8			21.7?	25.2?
		(24.7)				25.8?	
						?	49.0
		45.2	49.3			B.	
		B. B.			58	44.6	48.4
	58	50.3	54.3			50.2	54.3
		B.					
14	0	15.3					
		23.3	27.4	14	0	23.2	27.1
		58.8	62.9				
	1	3.4	7.4		1	3.3	7.4
		D. B				B. B.	
	2	~~6.0~~	6.0				
		9.0	—		2	8.8	12.9
		51.2	55.1			51.1	55.1
	3	7.9	11.9		3	8.0	11.9
		14.1	—			14.1	
		B.					
		47.4	51.2			47.2	51.2
	4	14.6	18.5		4	14.5	18.4
	5	39.1	43.0			39.0	(43.1) ?
		(43.5	47.8)			(42.7)	46.6
		50.0	53.9			49.8	
		B.				B.	
	6	24.4	28.3		6	21.3	25.3
		31.0	35.0			24.0	28.0
						30.7	34.9
		47.8	51.5			47.5	51.5
		~~55~~	(56.0)			52.0	55.9
	7	5.4	9.1		7	5.2	9.0
		B.				B.	

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D.

D.

B. B

B.

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4h 7	36.7	42.7
	44.2	48.1
	D	
8	50.2	54.2
	51.1	55.1
	58.7	
9	13.0	17.0
	54.3	58.4
10	6.1	10.0
	20.3	24.1

4h 7	38.5	42.4
	1	45.1
	44.1	48.0
	D	
8	49.6	
	50.6	54.6
	58.1	
9	12.8	16.5
	54.5	58.2
10	5.7	9.9
	20.4	(24.3)
	(23.9)	28.0
	B	
11	7.2	11.3
	51.5	56.1
12		4.0
	14.3	18.4
12		36.0 ?
13	3.4	7.0
13	17.6	21.7
	26.3	30.4

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Zones 107 and 118.

13	55	22.0	25.9	13	55	21.7	25.8
	56	52.7	56.5		56		56.9
	57	34.3	37.9		57	34.0	37.9
	57	45.0	48.8			44.9	48.8
		D.					
	58	35.0	42.8		58	38.9	42.8
		~~D.B.~~					47.1
	59		38.9		59	36.8	39.0
		B.B.				B.D.	
14	0	49.3	52.9				
	1	27.1	31.0	14	1	26.9	30.9
		D.B.D.					
	2	19.0	23.0		2	18.9	22.6
		31.4	35.3			31.1	35.1
	3	20.5	24.4		3	20.4	24.4
		56.9	60.8			56.7	60.7
		B.D.				D.	
	4	16.9	20.7		4	16.5	20.3
		52.7	56.5			52.4	56.4
	5	28.0	31.9		5	27.8	31.9
	6	2.1	6.1		6	1.9	5.9
		B.B.			8	B.B.	11.8 14.8
	8	22.8	26.5				
		52.7	56.6				56.4

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14	9	51.5	—
		—	59.0
		B.	
	11	1.8	5.7
		19.5	23.3
		54.9	59.1
		B.	
	12	12.4	16.3
		19.3	23.3
	13	4.8	8.5
		17.6	21.5
		35.6	39.6
		B. B.	
	14	23.8	27.9
		D.	
	16	21.2	25.0
		58.0	61.9
	17	21.5	25.3
		23.2	27.1
		B	
	18		47.5
	19	10.8	14.7
		37.7	41.8
		40.0	43.8
		D.	
	20	10.5	14.3
		33.9	38.1
	21	55.0	59.0
		57.9	61.9
		B.	
	22	38.8	42.6
		48.1	52.1
	23	37.1	40.8
	25	5.9	9.9
		25 14.4	18.3
		57.1	61.1

		B.	
14	9	51.6	
		55.3	59.3
	11	1.7	5.6
		19.3	23.5
		54.9	58.8
		B.	
	12	12.4	16.2
		19.3	23.3
	13	4.4	8.7
		17.4	21.3
		35.5	39.5
		D. D.	
	14	23.7	27.9
		B.	
	16	20.9	24.8
		57.9	61.7
	17	21.3	25.3
		23.2	27.2
		D.	
	18	43.2	47.2
	19	10.8	14.7
		37.4	41.4
		35.8	43.7
		B.	
	20	10.2	
		33.9	37.8
	21	54.8	58.9
		57.8	61.8
		B.	
	22	—	42.3
	23	48.0	52.1
		36.8	40.9
		49.7	53.8
		B. B.	
	25	5.6	9.4
		56.9	60.9

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27	23.7	27.6
27	59.7	63.6
28	47.2	54.1
	B. D.	
30	29.1	32.8
	35.3	39.3
	49.2	53.0
	D.	
32	25.7	29.7
	48.1	52.1
	53.7	57.9
	B.	
33	40.3	44.3
	50.3	54.0
34	14.2	18.0
	B. D. B.	
~~35~~		~~15.~~
35		14.2
3	12.0	15.7
	~~27.4~~	31.4
	B.	
	55.0	58.8
36	11.3	15.4
	41.0	45.0
D. B	~~41.~~	~~42.4~~
37	~~28.5~~	~~32.4~~
	29.1	33.2
	B. D.	
39	14.3	18.1
	51.5	55.4
40	59.1	63.0
41		7.0
	18.3	22.4
	34.3	38.1
	44.1	48.1
	B. B.	
42	16.1	19.9
	21.5	25.2
	47.6	51.6
	B.	

14 27	—	51.5
		63.3
28	47.1	51.1
	D.	
30	28.8	32.7
	35.5	
	49.2	53.1
	B. B. — B. D.	
32	25.4	29.2
	48.0	52.1
	53.6	57.5
	B.	
33	40.2	44.2
	49.8	53.9
34	14.1	17.9
		22.0
	D. B.	
35	10.0	14.0
	11.6	15.6
	27.2	31.2
	D.	
~~36~~	54.7	58.5
36	11.2	15.3
	40.8	45.0
	D. B. D.	
37	29.1	32.7
39		47.1
	51.5	55.6
40	59.0	~~62.~~
41	3.2	7.3
	18.3	22.2
	34.3	38.2
42	16.1	19.9
	21.2	25.5
	47.5	51.7
	B.	

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43	59.6	63.5	
44	33.7	37.8	
	41.7	45.5	
	53.0	56.6	
45	8.0	12.2	
	18.6	22.7	
	32.3	36.2	✓
	33.1	37.2	
	B.		
46	0.5	4.5	
	D.		
1	51.8	55.8	
	52.4	57.4	
	58.6	62.3	
47	15.5	19.5	
	22.5	26.4	
	D.B.		
	59.7	63.7	
48	11.7	15.7	
	43.5	47.3	
49	21.8	25.7	
	D.B.D.		
	46.2	50.1	
	49.6	53.6	
	55.0	59.1	
	B.		
50	46.3	50.2	
	55.8	60.0	
53	10.8		
		15.2	
	B.B.		
54	30.3	34.0	
	45.9		
	49.5	53.5	
55	15.3	19.3	
	B.		
57	33.2	37.3	
	40.8		

14 43	59.4	63.3	
44	33.7	37.6	
	41.6	45.6	
	52.8	56.9	
45	8.3	12.0	
	18.5	22.6	
	32.3	36.4	
	B.B.		
46	51.6	55.9	
	53.4	57.2	
	58.4	62.4	
47	15.5	19.4	
		26.4	
	B.		
	59.6	63.8	
48	11.6	15.6	
	43.2	47.3	
49	21.6	25.7	
	B.		
	46.0	50.0	
		53.5	
	55.3	59.1	
	B.D.		
50	46.1	50.1	
	55.8	59.8	
	D.B.		
53			
	11.2	15.1	
	B.		
54	30.1	34.1	
	46.0		
	49.5	53.7	
	D.		
57	33.2		
	36.8	40.7	

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14 58

27.4 31.9
30.8 34.4
48.0 51.4
56.1 60.1
59 3.7 7.4
D.
23.2 27.0
44.8 48.6
15 0 21.9 25.9
22.6 26.6
1 12.6 16.7
B. B.
35.0 39.0
3 10.0 4.0
29.3
33.9 38.1
4 9.4 13.4
26.0 30.0
37.0 41.2
41.8 46.0
5 8.4 12.3
16.1 20.1
D.
29.4 33.9
43.8 47.8
B.
6 0.4 4.4
7 13.6
17.2 20.9
24.9
D.
56.2 60.3
8 6.8 10.7
13.6 17.5
B. 21.7
50.7 54.5

14 58

27.8 31.8
30.6 34.7
47.9 51.8
56.1 59.8
59 3.7 7.7
43.2
D.
15 0 21.8 25.6
22.6 26.4
1 12.5 16.5
B. B.
34.6 38.6
55.6 59.5
3 3.8
29.2 33.6
34.1 38.0
B.
4 9.3 13.1
25.9 29.8
37.2 41.1
42.0 45.8
5 16.2 20.1
29.9 33.8
43.5 47.6
B.
6 4.4
13.4
17.1 21.2
24.9
B.
7 56.2 60.0
8 7.0 10.8
13.4 17.6
21.7
50.7 54.6

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15	9	24.8	29.0	15	9	24.8	28.7
		57.8	61.7			57.6	61.6
		S.B.					
	10	43.8	47.8		10	43.9	47.7
		52.3	56.2			52.3	56.2
	11		0.1		11		0.1
		2.3	6.5		11		6.4
		B.				B.	
		32.0	35.9				
		38.4	42.4				42.5
		48.9	52.7				
		D.					
	12	13.8	17.8		12	14.0	17.8
	13	3.6	7.7		13	3.7	7.6
		6.0	9.9			6.2	
		12.9	16.8			12.7	16.8
		14.9	19.0			14.8	18.7
		D.B.				B.D.	
	14	4.8	8.9		14	4.8	8.8
		50.8	54.8			51.0	54.7
		B.B.				B.B.	
	16	36.6	40.5				
		57.3	61.2				
	17	15.2	19.2		17	15.3	19.2
						30.5	34.3
	18	D.	14.6		18	10.7	14.4
		22.2	25.8			22.0	26.2
		24.7	28.8			24.7	28.7
		49.6	53.7			49.6	53.7
	19	22.8	26.8		19	22.7	
		29.9	32.7			28.8	32.8
						B.D.	
	20	31.3	35.3		20	31.4	35.4
		45.0	48.9			45.0	48.8
	21	34.8	38.7		21	34.8	38.8
	22	20.0	24.1		22	15.8	23.9
		28.8	32.8			28.6	32.7
		B.				D.	
	23	44.4					
		47.0	50.9		23	46.8	50.7

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39m	57.0	61.2
40	26.4	30.1
40	53.6	57.7
41	4.4	8.4
	15.0	19.2
	31.5	35.5
42	11.2	15.2
	17.3	21.3
?	22.4	~~26.2~~ ?
	~~24.~~	26.0
	DD.	
43	1.0	
	4.8	8.9
	22.3	26.4
	B.	
44	20.0	23.9
	~~46.8~~	46.3
	52.0	56.0
	57.0	61.0
45	8.6	12.7
	D.	
	22.9	26.9
	29.1	33.1
	D.B.	
46	25.0	29.2
	28.6	32.5
47	15.7	19.6
	32.0	35.9
	BD.	
48	40.8	44.7
	~~44.7~~	~~43.7~~
	B.	
49	18.3	22.1
50	49.7	53.7
51	26.8	30.7
52	7.3	
	11.2	15.3
	D.B.	

40	26.3	30.2
	53.5	57.7
41	4.5	8.4
	15.0	
42	57.8 / 0.5	61.9 / 4.4
	17.3	21.2
	DB.	
43	1.0	
	4.9	8.9
	22.3	26.3
	B.	
44	20.0	24.1
	42.5	
	52.1	55.9
	57.0	61.0
45	8.6	12.6
	23.0	26.8
	29.1	33.1
	B	
46	25.1	29.4
	28.4	32.6
47	15.6	36.1 / 19.7
	32.0	35.8
	D.B.	
48	40.8	44.7
	41.2	45.0
49	18.1	22.3
50	49.6	53.6
51		
52	7.3	11.3
	BB.	15.2

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15	52	56.1	60.1
	53	19.2	23.2
		32.6	36.7
		B.	
	54	11.2	15.0
		39.4	43.6
		54.9	59.1
	55	26.9	31.0
		35.3	39.5
		58.6	62.8
	56	~~7.2~~	7.2
		B.B	
		45.5	49.7
	57	5.7	9.7
	58	15.9	19.8
		D B D B	
	59	1.0	5.0
		39.9	43.9
		49.4	53.4
16	0	11.8	15.6
		14.5	18.4
		29.5	33.9
	1	B.D ~~2.7~~	8.7
		23.1	27.1
		29.5	33.4
		36.1	40.3
		D.	
	2	11.0	15.0
	3	0.8	4.8
		21.2	25.0
		B.	
		45.4	49.3
		52.9	~~56.9~~
	4	9.3	13.2
		12.5	
		25.2	29.2
		49.5	53.2
		D. B. D.	
	5	43.7	47.7
	6	6.0	10.0

15	52	56.0	60.1
	53	19.0	23.0
		32.7	36.7
		D B.	
	54	11.1	15.0
		39.3	43.4
		55.0	59.1
		B	
	55	26.9	30.9
		35.5	39.4
		58.9	62.6
	56	—	7.3
		B. D. B.	
		45.4	49.4
	57	5.8	9.6
	58	15.8	19.8
		D.	
	59	0.9	5.0
		40.0	44.0
		49.3	53.3
16	0	11.6	15.6
		14.5	18.3
		29.9	33.9
	1	4.6	8.6
		23.2	27.3
			33.4
		35.9	40.2
		D. B.	
	2	11.1	15.1
	3	0.7	4.6
		21.5	25.1
		B. B.	
		52.8	56.8
	4	9.1	12.9
		25.1	29.1
		49.3	53.3
		D. B. D.	
	5	43.8	47.6
	6	6.0	9.9
	8	19.8	23.8

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