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Directions for Volume XXIV.

Book	Page	Reg.	Magn. Henry	Grat.	Ch. Quantity	
I	10	205	BD	2°×1ʰ.	Magn I – BD.	Resid −1° < +70°
II	10	87	"	"	" "	" +75° < −20°
"	88	142 ~~224~~	"	parts of hours.	" "	+80°, +30°, +35° h
"	144					HP stars with BD magn per chart 6.5
"	152		B			Mer. " " " " " " "
"	153	154	BD	8ʰ	HP Magn.	−2° < −23° BD magn per chart 6.5
"	154	155	BD	8ʰ	" "	−2° < −23° BD magn per chart 6.1
"	158	207	BD	30°×2ʰ	Magn IV – BD	−30° < +90°
"	208	216	BD	30°×2ʰ	" I – BD	−30° .. 0ʰ–19ʰ ~~HP~~ > 6.3 < 9.0
III	4	28	"	"	" "	−30° 20ʰ < +90° " "
	30	56	HP.	30°×2ʰ	" I – HP.	−20° < +90°
	58	69	HP.	1°	I – HP	−1° < +89°
	70	71	HP	1°	" "	−4° < −22°
	72	~~89~~ 91	I	30°×2ʰ	I – IV	−30° < +90
	93	101	G.C.	(2ʰ40ᵐ)	XVII – G.C.	
	102	111	HP	2ʰ40ᵐ×1°	XVII – HP.	−30 < −37°

IV 4 39 HP 30°×2ʰ 2P – HP

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Mag I — BD. −1°

0h

B 6.5 7.0 7.5 8.0 8.5 8.8 8.9 9.0 F

5.2 4.8 4 4 10 2
8 4 9
3 0 11
1 6
4
3

1h

B 6.5 7 7.5 8 8.5 8.8 8.9 9 F

8 8 10 1 9.5 F
7
8 18
10 6

12-3
1 — — — 9/3 4/1 14-1/4 — 35/6 —

.30 .40 .31 — .58 —

2h

— — — — 8/1 8/1 10/1 — 24/3 1

(Sum of 0h + 1h)

1 — — — 20-3/4 12/2 24-1/5 — 59/9 1

3h

B 6.5 7.0 7.5 8.0 8.5 .88 .89 9.0 F

9 12 4 9.1 9.0
9
10 8
4 5
3
2 2
7
3

B 6.5 7 .75 8 8.5 8.8 8.9 9 F

5.5 5.2 5 6 4 4 1 9.3 9.1
5
3
3
1

— — — — — 19-7/4 38/6 — 4/1 1

L — -5/1 -6/1 -4/1 -4/1 — — 7-6/5 1

(Sum of 2h + 3h)

1 — -5/1 -6/1 -4/1 19-11/5 38/6 — 11-6/6 2

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-1°

4^{h}

B6.5	7	7.5	8	8.5	8.8	8.9	9	9.2	9.0
	0	1	1	2					
	~~2~~ 1	1		2					
	3	4		5					
	1	4		5					

5^{h}

B6.5	7	7.5	8	8.5	8.8	8.9	9	9.1	8.8
	11	8	6	6	3				9
	6	8	3	10	2				
	9	5	4		5				
		12	2						

$\frac{4-1}{4}$	$\frac{10}{4}$	$\frac{-1}{1}$	$\frac{7-7}{4}$	1	
$\frac{-26}{3}$	$\frac{-33}{4}$	$\frac{-15}{4}$	$\frac{-16}{2}$	$\frac{-10}{3}$	1
(Sum of $4^{h}+5^{h}$)					
$\frac{-26}{3}$	$\frac{4-34}{8}$	$\frac{10-15}{8}$	$\frac{-17}{3}$	$\frac{7-17}{7}$	2

6^{h}

B6.5	7	7.5	8	8.5	8.8	8.9	9	9.1	8.8
	4	5	3	3	2				
	7	5	1	0				9.4	9.5
	4	2		2					
	4			2					
	1			3					
	2			1					
	2			2					
	1			4					
	2								

7^{h}

B6.5	7	7.5	8	8.5	8.8	8.9	9	Z
	6	10	1	3			3	
		4	2	0			0	
		4	2	3			5	
			3				0	
							8	
							6	
							2	
							1	
							2	
							5	

$\frac{-4}{1}$	$\frac{-28}{9}$	$\frac{10}{3}$	$\frac{4}{2}$	$\frac{7-9}{8}$	2
$\frac{-6}{1}$	$\frac{-18}{3}$	$\frac{3-5}{4}$	$\frac{-6}{3}$	$\frac{20-12}{10}$	
(Sum of $6^{h}+7^{h}$)					
$\frac{-6}{1}$	$\frac{-22}{4}$	$\frac{3-33}{13}$	$\frac{10-6}{6}$	$\frac{4}{2}$	$\frac{27-21}{18}$ 2

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-1°

8 h.

B. 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 𝒴 .

1
4 8 4 8 4
4
7 2 3
1 1
1 1
1 4
9 8
4

- - - - 11-8/5 8/1 16/6 8/1 8/2 -

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 𝒴 . .

1 0 1 0 1
3 5
3
2

- - 1/1 - - 3-5/4. 5-1/2 0/1 1/1 -

(Sum of 8h + 9h.)

- - 1/1 - 11-8/5 11-5/5 21-1/8 8/2 h. 9/3 -

10 h.

B. 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 𝒴 .

1
5.0-5.1 3 4 2 2
9 2 2
3 1
2

L - - - 1-9/2 4-7/4 -2/1 - 4-1/3 -

11 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 𝒴 . .

0 0 1 9.3-9.3
1

- - - - - 1/2 - 0/1 1/1 1

(Sum of 10h + 11h.)

1 - - - 1-9/2 5-7/6 -2/1 0/1 5-1/4 1

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-1°

12^{h}

B. 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ℱ .

3	2	0	1	1	92-95	
		9	3	3		
				3		
				0		

13^{h}

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ℱ . .

	7		1	92-95	
	2		5		
	2				
	2				

$$- \quad - \quad \frac{3}{1} \quad - \quad \frac{2}{1} \quad - \quad \frac{9}{2} \quad \frac{3-1}{2} \quad \frac{7}{4} \quad 1$$

$$- \quad - \quad - \quad - \quad - \quad - \quad \frac{4-9}{4} \quad - \quad - \quad \frac{5-1}{2} \quad 1$$

(Sum of 12^{h} + 13^{h})

$$- \quad - \quad \frac{3}{1} \quad - \quad \frac{2}{1} \quad \frac{4-9}{4} \quad \frac{9}{2} \quad \frac{3-1}{2} \quad \frac{12-1}{6} \quad 2$$

14^{h}.

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ℱ .

2	2	0	1	1	92-95	
			3	5	92-93	
			8			

$$- \quad - \quad \frac{2}{1} \quad - \quad \frac{-2}{1} \quad \frac{0}{1} \quad \frac{11-1}{3} \quad - \quad \frac{6}{2} \quad 2$$

15^{h}

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ℱ .

1	0	1	0	2	
	7	1	4		
			1		

$$- \quad \frac{1}{1} \quad - \quad - \quad \frac{7}{2} \quad \frac{2}{2} \quad \frac{5}{3} \quad - \quad \frac{2}{1} \quad -$$

(Sum of 14^{h} + 15^{h})

$$- \quad \frac{1}{1} \quad \frac{2}{1} \quad - \quad \frac{7-2}{3} \quad \frac{2}{3} \quad \frac{16-1}{6} \quad - \quad \frac{8}{3} \quad 2$$

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-1°

16h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

5.8-6.1 — 0 4/1 3/1 — 4 9.3-9.1

— — — — — — — — 9.2-9.7

1 — — — 0/1 5-11/8 3-1/2 — 4/1 2

17h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

1 — 1 1/2

2 — 2/1

1

— — — — — — 4/3 — 1-2/2 — -1/1 —

(Sum of 16h + 17h)

1 — — — 0/1 9-11/11 3-1/2 1-2/2 4-1/2 2

18h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

1 — 4/1 1/1 2/1 — 0 9.3-9.9

— 0 3 6 — 2/1 9.2-9.7

— 1/1 1/1

— — — 1/1

— — — 1/1

— — — 2/1

— 1/1 — — -5/3 3-6/6 6-2/2 — -2/2 2

19h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6/1 1 2 0 4 9.3-9.3

2/1 2 — 3 9.2-9.5

— — — 2 9.2-9.4

— — — — — — -6/1 1-2/2 4/2 0/1 9/3 3

(Sum of 18h + 19h)

— 1/1 — — -11/4 4-8/8 10-2/4 0/1 9-2/2 5

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−1°

20h

B.	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	∅	
	0		7		7	2	0	5	9.1-9.2	
			0		2	3	1	1		
					2	1		4		
					4			1		
								5		
								2		

$- \frac{0}{1} - \frac{-7}{2} \frac{2-13}{4} \frac{4-2}{3} \frac{1}{2} \frac{15-3}{6}$ 1

21h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	∅	
					5	1	6	4		
						8		6		
						2		6		
						2		4		

$- - - - \frac{5}{1} \frac{12-1}{4} \frac{6}{1} - \frac{28}{4}$ −

(Sum of 20h + 21h)

$- \frac{0}{1} - \frac{-7}{2} \frac{7-13}{5} \frac{16-3}{7} \frac{7}{3}$ 22h $- \frac{35-3}{10}$ 1

23h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	∅	
	7		2		2			9	9.5-9.8	
			1		5			F		
			5		6			8		
								12		
								10		

$- - - \frac{-7}{1} \frac{5-3}{3} \frac{13}{3} - - \frac{39}{4}$ 1

	1				2	7		12	9.5-9.6	
					3			4	9.2-9.4	
					2			3		
								3		
								4		
								6		

$- \frac{-1}{1} - - - \frac{7}{3} \frac{7}{1} - \frac{32}{6}$ 2

(Sum of 22h + 23h)

$- \frac{-1}{1} - \frac{-7}{1} \frac{5-3}{3} \frac{20}{6} \frac{7}{1} - \frac{71}{10}$ 3

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0^h $-0^\circ +0^\circ$

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Σ	.
6264		3	3	1	1	5		3		
		4	1	5	4	8				
			5	5						
			2	3						

1	–	7/2	11/4	14/4	5/2	13/2	–	3/1	A		

0^h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Σ	.
		1		3	5	6	2	7		
		3/5		5	1	4		3		
		5/3		1	6	9		8		
				3	6	7		R		
				0		4		5		
						7				

	–	4-8/4	–	9-8/5	18/4	37/6	2/1	23/4	–		

1^h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Σ	.
		7	4	8				9		
			1					6		
								7		
								4		
								9		
								5		

	–	–	–	7/1	4-1/2	8/1	–	–	40/6	–	
1	–	7/2	18/5	18-1/6	13/3	13/2	–	43/7	–		

1^h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Σ	.
		0	1/1	3	4	6	4	10		
				1	0	4		11		
				8/1	1			7		
					8			6		
					6			7		
					8			5/0		

	–	0/1	-1/1	–	4-9/4	27/6	10/2	4/1	41-5/7	–	
	–	0/1	4-9/5	–	13-12/9	45/10	47/8	6/2	64-5/11	–	

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$-0^\circ +0^\circ$

2^h

B. 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 8.9 . 9 . 7 .

4 3 3 8 4 4 7
5 0 1 4
8 2

$\frac{3-4}{2}$ — $\frac{-16}{3}$ $\frac{-3}{1}$ $\frac{8}{2}$ $\frac{7}{2}$ $\frac{4}{1}$ $\frac{11}{2}$ —

2^h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 8.9 . 9 . 7 . .

3 0 4 4 0 1 4
6 4 3 7 2
0 1 2 8
2 1 3 1
2 6 6
7 0

— — $\frac{-3}{1}$ $\frac{-8}{4}$ $\frac{4}{1}$ $\frac{14-5}{6}$ $\frac{14}{5}$ $\frac{7-1}{2}$ $\frac{19-2}{6}$

3^h

B. 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 8.9 . 9 . 7 .

4.2-4.4 3 0 6 5 1 8
6.2-6.0 1 1 4 4 13
6.7-5.5 4 1 5
0

3 $\frac{-3}{1}$ — $\frac{-1}{2}$ $\frac{7}{2}$ $\frac{13}{4}$ — $\frac{6}{3}$ $\frac{26}{3}$

3 $\frac{3-7}{3}$ — $\frac{-17}{5}$ $\frac{73}{3}$ $\frac{21}{6}$ $\frac{7}{2}$ $\frac{10}{4}$ $\frac{37}{5}$ —

3^h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 8.9 . 9 . 7 . .

5 8 5 4 3 7 9.1-9.5
7 4 4 2 9 7
3 3 2
1 1 8
1 6
8
2
3
2
2
8

— — $\frac{-12}{2}$ $\frac{4-8}{2}$ $\frac{1-12}{4}$ $\frac{26-10}{11}$ — $\frac{28}{5}$ $\frac{14}{2}$

— — $\frac{-15}{3}$ $\frac{4-16}{6}$ $\frac{5-12}{5}$ $\frac{40-15}{17}$ $\frac{14}{5}$ $\frac{35-1}{7}$ $\frac{33-2}{8}$

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$-0^{\circ}+0^{\circ}$

4 hr.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
	2		4	5	0	3		3	
			0	1	7	2		7	
					2				
					2				
					8				
					5				
					6				
					0				
					9				
					2				

4 hr.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ	
	62.60	5	7	4	0	6	1	5	9.2-8.9	6.
	62-63		3	3	1	5		2	9.1-9.1	
	60-67		0	5	3	1		2		
			4		1	1		5		
			7		1	3		0		
					5			4		
					5			2		
					0			6		
								1		

5 hr.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ	
	2	4	1	6	9	8	7	1	9.2-7.9	
	7		9	10	5		7	6		
	9		12	4	16		3	7		
					5		5			

5 hr.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ	
	4	4	13	12	9	1	1	0	9.1-8.6	
	10	6	9	9	2	7	9	9.2-8.8		
	9		7	10	1	4	2			
			13	3	2	6	8			
			6	6			11			
				6			6			
							2			
							6			

-	$\frac{-20}{4}$	$\frac{-4}{1}$	$\frac{4-22}{5}$	$\frac{5-21}{5}$	$\frac{37-39}{14}$	$\frac{5-8}{3}$	$\frac{-22}{4}$	$\frac{10-14}{5}$	1	3	$\frac{-4}{1}$	$\frac{5-23}{4}$	$\frac{4-36}{7}$	$\frac{10-49}{8}$	$\frac{9-50/14}{15-7}$	$\frac{1-18}{5}$	$\frac{26-45}{17}$	4		

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6^h $-0^\circ +0'$ 6^h

B.	6.5	.7	7.5	.8	.85	.88	.89	.9	.7	
6.2–6.0	9		7		1	2	2	4	9.1–9.1	
	5		6		1	2	2	1	9.2–9.3	
	9				4	5		2		
	10				8	1		3		
					4			0		
					7			4		
								1		
								2		

B	6.5	.7	7.5	.8	.85	.88	.89	.9	.7	
	10		7	6	7	3	0	1	9.1–9.1	
	10		11	5	0	4	1	0	9.2–8.8	
			8	11	3	1	2	3	9.1–9.1	
				3	4	5	2	4	9.5–8.7	
				9	1	3	5	2	9.2–8.9	
				5	5	6		0	9.2–9.0	
					3			1		
					4			2		
					3			3		
								5		
								1		
								3		
								4		
								1/3		

η^h.

B.	6.5	.7	7.5	.8	.85	.88	.89	.9	.7	
	10	0	5	13	5	2		7	9.3–9.1	
				4	2	1		3	9.2–9.2	
				3				2		
				0				2		
								5		

η^h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	.7	
	2	7	9	11	6	1	1	0	9.2–8.9	
	0	9	4		4	9	4	6	9.4–9.2	
		4	4		1	2	2	4	9.2–9.2	
					6	1	1	2		
					2	3		2		
					5	2		0		
					10			1		
					6			1		
					4			2		
					1			0		
								3		
								0		

1 $\frac{-43}{5}$ $\frac{0}{1}$ $\frac{-18}{3}$ $\frac{-20}{4}$ $\frac{1-23}{7}$ $\frac{10-3}{6}$ $\frac{2-2}{2}$ $\frac{13-2\frac{3}{4}}{13}$ 4 — $\frac{-22}{4}$ $\frac{-20}{3}$ $\frac{-43}{6}$ $\frac{-50}{7}$ $\frac{5-70}{19}$ $\frac{9-31}{12}$ $\frac{4-14}{9}$ 0 $\frac{31-35}{31}$ 9

$\frac{3}{8}$

1

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$-0^\circ +0^\circ$

8h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.7
		9	2	7	1	4	1	5	
		3		2	6	2	1	1	
				8	7	2	5	5	
				4	2			~~8~~	
				2	3				
				2	3				
				2	1				
				5	~~8~~				

8h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.7	.
6.2-6.1		4		6	12	4	1	2	9.2-9.1	
		1		3	2	1		2	9.2-9.6	
		4		4	0	7		0	9.1-9.5	
				5	2	0		5	9.1-9.3	
				1	1			7	9.2-9.5	
				2	3			2		
				4	4					
					1					
					3					
					3					
					1					
					3					
					4					

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.7	.
6.2-6.2	3		3		0		5	2	9.1-9.5	
	4				3		1	4		
	3				2			2		
					1			2		
					1					

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.7	.	.
		4	5	6	2	3	4	4			4.7-
		2		3	1	1		1			
		3		2		3		4			
		1				5		4			
								3			

$$1 \quad \frac{6-4}{3} \quad \frac{-12}{2} \quad \frac{-5}{2} \quad \frac{10-22}{8} \quad \frac{28-2}{12} \quad \frac{8}{3} \quad \frac{3-5}{4} \quad \frac{20-1}{7} \quad 1$$

$$1 \quad - \quad \frac{-4}{1} \quad \frac{-20}{7} \quad \frac{2-34}{10} \quad \frac{34-8}{15} \quad \frac{24}{8} \quad \frac{5}{2} \quad \frac{34}{11} \quad 5$$

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10h

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
	2	2	2	1	3	9	3		
	0				7				
					4				
					3				
					2				

-0° +0°

10h

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
53-5.0	2		1	1		5		3	
	4		6			5		4	
			14			1		4	
						6		7	
								3	

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
47.44		3	7	3	0	7	4	0	9.2-9.4
			6	5	1			5	
				8	0			x	

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
62.62		2	1	1		4	1	5	5
				2		3	7		4
				1		5			4
						3			4
						1			9
									8

1	2/2	-5/2	2-13/3	1-8/3	20/8	16/2	7/2	5/2	1	

2	2-6/3	-1/1	2-23/6	-1/1	8-8/5	24r1/6	5/1	55/11	-	

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$-0^\circ + 0^\circ$

12 hr.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z .

12 8 2 10 1

2 1 3 3

4

12 hr.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z .

32-40 4 1 3 2 5 3 91-93

5 1 2

3 4

2 2

6 4

13 hr.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z .

6.2-5.2 11 8 5 3 6 92-99

6.2-5.8 1

13 hr.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z .

35-32 2 3 1 1 0 5 93-97

4 2 5 0

1 3

6 7

$$1 - \frac{-11}{1}\ \frac{-20}{2}\ \frac{-15}{3}\ \frac{5-2}{3}\ \frac{13}{2} - \frac{11}{4} -$$

$$2\ \frac{2-4}{2} - \frac{1-5}{2}\ \frac{3-19}{7}\ \frac{18-6}{9}\ \frac{11}{3}\ \frac{0}{1}\ \frac{15-3}{5}\ 2$$

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14h −0° +0° 14h

B	6.5	7	7.5	8	8.5	88	8.9	9	Z	
6.2-5.8	6		6		3		2		9.2-9.9	
							3			

B	6.5	7	7.5	8	8.5	88	8.9	9	Z	
	5	1	6	2	4	8	3	1	9.2-9.2	
	4	3	1		5	7		2		
					1	4		4		
					6			3		
								1		

15h. 15h.

B	6.5	7	7.5	8	8.5	88	8.9	9	Z	
	4	3	4	1	1			3		
		1	6	2				1		

B	6.5	7	7.5	8	8.5	88	8.9	9	Z	
5.9-5.7			0	1	2			4	9.2-9.8	
6.2-6.1			3	1				2	9.2-9.4	
			1	4						
			3	6						

1 $\frac{-10}{2}$ $\frac{1-3}{2}$ $\frac{-16}{3}$ $\frac{-3}{2}$ $\frac{1-3}{2}$ – $\frac{5}{2}$ $\frac{4}{2}$ 1

2 $\frac{-9}{\cancel{-8}\ -1\ 2}$ $\frac{-4}{2}$ $\frac{6-8}{6}$ $\frac{2-12}{5}$ $\frac{11-7}{5}$ $\frac{19}{3}$ $\frac{3}{1}$ $\frac{15-2}{7}$ 3

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1895phae.proj.1724.

16h. −0° +0°

B	6.5	f	7.5	8	8.5	8.8	8.9	9	F
	0		4	4	2	2			
	2		2	5	3	4			
					5				

16h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	F	
60.5.4	3	4	7		2	2	4	3	9.1-9.5	
		2			2	6		0	9.3-9.8	
		0			8	0			9.3-9.4	
					3				9.3-9.5	
					0				9.1-9.0	

17h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	F	
6.2-6.2	2			1	2			x	9.1-9.3	
	1			4	3				9.1-9.2	
				1	4				9.2-9.7	
				3						
				1						

17h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	F	
6.2-6.5	2	7	3	0	6			3	9.3-9.5	
	2	4	2	4	1			6	9.3-10.1	
		6		1				3	9.4-9.6	
				2				7		
				3						

1 $\frac{3\text{-}2}{4}$ − $\frac{2\text{-}4}{2}$ $\frac{9\text{-}10}{7}$ $\frac{5\text{-}14}{6}$ $\frac{6}{2}$ − − 3

2 $\frac{-3}{1}$ $\frac{2\text{-}8}{5}$ $\frac{17\text{-}7}{4}$ $\frac{3\text{-}2}{2}$ $\frac{9\text{-}16}{10}$ $\frac{9\text{-}6}{5}$ $\frac{4}{1}$ $\frac{22}{6}$ 8

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18h −0°+0° 18h

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F		B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
				3	0			1	9.2-9.7		5.4-5.6	0	0	4	1	3	1	3	1	9.1-9.3
				4	3			0	9.3-9.8				1	0	3	4	3	3	0	9.3-9.9
				1	0				9.2-9.4				5	3	0	1				
				7					9.3-9.7					4	2	4				
									9.1-9.1						0	0				
																2				

19hr. 19hr.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F		B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.0-5.6		3			3	2	1	1	9.3-9.3		5.0-5.0	4	1	0	1	3	7	1	2	9.2-9.3
		1				5	1						3	2		8	3	3	3	9.2-9.4
		2				1	3						4	3		5	3	1	8	9.1-9.1
		0											1	5		0			6	
																5				
																0				
																0				
																2				
																2				
																5				

1 − 2-4/4 − 18/5 11/6 5/3 1/1 1/2 6

2 -4/2 5-10/7 15-6/8 3-4/6 37-7/16 10-7/5 11/5 20/6 5

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1895phae.proj.1724.

$-0^\circ + 0^\circ$

20h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	☿
5.4-5.4	3	4	4	4	3	2	5	5	
			0	4	3		4	4	
					3			5	
					4			7	
					4			0	
					5				

20h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	☿	.	.
	3	6	1	6	2	2	1	3	9.5-9.4		
	1	3	3	4	8	1	5		9.2-9.7		
		11	2	0	4		5		9.4-9.6		
			2	3			3				
			4	1			2				
				3							
				2							
				5							
				0							
				~~4~~							

21h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	☿
6.0-5.7	0		0	5	1	2	3	2	9.2-9.2
	2		1	3	2	4	1	1	
			4	6					
				6					

21h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	☿	.	.
	1	1	4	4	1		1		9.2-9.0		
	0		9	4	2		1		9.2-9.2		
				2	1		1				
				3			2				
				3							
				2							
				0							
				0							
				5							
				~~0~~							

2 $\frac{2\text{-}3}{3}$ $\frac{-4}{1}$ $\frac{1\text{-}8}{5}$ $\frac{5\text{-}23}{6}$ $\frac{23\text{-}2}{8}$ $\frac{2\text{-}6}{3}$ $\frac{13}{4}$ $\frac{23\text{-}1}{7}$ 1 — $\frac{-3}{1}$ $\frac{-8}{3}$ $\frac{1\text{-}21}{5}$ $\frac{10\text{-}20}{7}$ $\frac{19\text{-}24}{18}$ $\frac{11\text{-}7}{6}$ $\frac{2}{2}$ $\frac{20\text{-}3}{9}$ 5

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1895phae.proj.1724.

22h −0° +0° 22h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z .
6 4 1 5 3 3 91-90
3 5 3 5
5

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z . .
7 6 3 0 6 4 1 91-91
1 3 7 1 5 95-85
1 2 8 3
4 1 4
0

23h. 23h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z . .
6.2-6.1 1 2 5 3 2 4 92-95
0 2 3
3
5

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . Z . .
46-45 10 8 9 5 1
2 3 2
1

1 $\frac{-1}{1}$ $\frac{-9}{2}$ $\frac{6-10}{4}$ $\frac{-9}{4}$ $\frac{5-3}{2}$ — $\frac{7}{3}$ $\frac{23}{6}$ 2

1 $\frac{-10}{1}$ $\frac{-15}{2}$ $\frac{-8}{2}$ $\frac{-18}{5}$ $\frac{4-10}{7}$ $\frac{21}{3}$ $\frac{6-3}{5}$ 8 $\frac{-5}{4}$ 2

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1895phae.proj.1724.

Rejected 0h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Z
		5		0	1	4		7	
		3			6	6		1	
						D			

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Z
	62-62		2	3	2			2	
					5			5	
					3			5	
								9	
								D	

Rejected 1h.

		.7		.8				.9	.Z
	6.5 6.5			1	4	9		6	
					0	4		11	
					8			6	
					6			7	
								5	
								0	

B	6.5	.7	.75	.8	.85	.88	.89	.9	.Z
	62-62			3	9			6	D 10
					3				

$$2 - - \frac{-2}{1} \frac{-4}{2} \frac{22}{5} - \frac{6}{1} \frac{29-2}{5} -$$

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1895phae.proj.1724.

Rejected 2h +0° +1° 2h

. . .7. .8. . . . .9. 7 . B 65. 7. 75. 8. 85. 88. 89. 9. 7 . .

0 4 0 1 4 58.59 2 7 3 1

1 3 2 1 5 6

1 3 1 1 4

2 0

Rejected 3h. 3h.

. . .7. .8. . . . .9. 7 . B 65. 7. 75. 8. 85. 88. 89. 9. 7 . .

8 5 4 3 7 9.1 9.7 4 5 3 D 0 3

4 4 2 7 6 1 0 7

2 1 1 6 6

1 D D

8

3

2

2

8

$1 - \frac{-4}{1} \frac{5}{1} \frac{1-6}{4} \frac{17-4}{6} \frac{4-1}{4} - \frac{29}{6} -$

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1895phae.proj.1724.

+0° +1°

Rejected 4h.

. . 7 . 8 . . . 9 7 . B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

6.0 6.7 4 4 4 7 1 0 9.2 8.8 5755

7 1 1 1 2 9.1 9.1

1 3 D

6 1

4h.

2 2 2 1 7

1 6

0 2

2 1

0

X

Rejected 5h.

. . 7 . 8 . . . 9 7 . B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

6.5 6.0 9 6 9 9 1 1 11 9.1 8.6

7 9 2 4 6 9.2 8.8

10 1 2

2 6

5h.

4

2 5

0 5 7

4

3

3 9.2 8.9

1 9.4 9.4

0 9.4 9.0

9.1 8.4

1 $\frac{-4}{1}$ – – $\frac{2-2}{3}$ $\frac{4-20}{8}$ $\frac{2}{1}$ $\frac{1}{1}$ $\frac{11-10}{9}$ 4

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1895phae.proj.1724.

+0° +1°

Rejected 6 h.

. . 7 . 8 . . . 9 7 .

6.6 5.6 7 6 7 3 1 9.1 9.1
11 5 0 4 4
1 5 2
3 D 0
4 2
3 3
D
1
3
1
3

6 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

6 7 2 0 4 9.1 9.0
10 5 1 4 5
6 3
1
1
1

Rejected 7 h.

. . 7 . 8 . . . 9 7 .

4 4 4 1 1 9 9.2 9.2
1 2 2
6 0
7 1
10 2
6 0
1 0
3
1

7 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

4 3 4 2 1 7
1 0 5
6 0

– – $\frac{-16}{2}$ $\frac{-4}{1}$ $\frac{-15}{3}$ $\frac{4-16}{6}$ $\frac{2-4}{3}$ $\frac{-1}{2}$ $\frac{2-25}{9}$ 1

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1895phae.proj.1724.

+0° +1°

Rejected 8 hr.

. B . 7 . . 8 . . . . 9 . 7 .

4 7 12 4 0 9.2 9.1
3 0 1 7 9.1 9.5
2 1 7 9.1 9.3
4 3
1

8 hr.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

1 4 1 3 1
4 3 6 5
6 0 2 1
2 2
7
5
2
6
3

Rejected 9 hr.

. B . 7 . . 8 . . . . 9 . 7 .

5 6 3 4 4
3 1 3
3
1

9 hr.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

4 2 0 3 9.1 9.2
1 1
10
3

$$- - - \frac{1-4}{2} \quad \frac{4-10}{3} \quad \frac{6-3}{6} \quad \frac{11}{4} - \frac{48-1}{13} \quad 1$$

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+0° +1°

Rejected 10h.

10h.

. B . 7 . 8 . . . 9 . 7 . B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . 7 . .

D 5 8 5 5 5

1 4 3 X

6 4

Rejected 11h.

11h.

. B . 7 . 8 . . . 9 . 7 . B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . 7 . .

6.2 6.2 1 4 1 5 5 3 0 4 5 7

5 9 0 6

3 8 1 2

1

$\frac{5-3}{2}$ $\frac{-1}{3}$ $\frac{8-4}{3}$ $\frac{25}{5}$

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1895phae.proj.1724.

$+0^\circ$ $+1^\circ$

Rejected 12 h.

. B . 7 . . 8 . . . . 9 . 7 .

5 3 2

2 4

12 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

5 2 5 5 6 9.2 9.9 6

0 2 4 9.2 9.7 8

1

Rejected 13 h

. B . 7 . . 8 . . . . 9 . 7 .

3 1 5 0 0 9.3 9.7

13 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .

6 2 4 9.3 9.8

4 9.2 10.04

$- - - \frac{-5}{1} \quad \frac{9}{4} \quad \frac{9-4}{4} \quad \frac{13}{3} - \frac{6}{1} \quad 4$

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1895phae.proj.1724.

+0° +1°

Rejected 14h.

. B . 7 . . 8 . . . . 9 . 7 .
1 2 5 8 3 1 9.2 9.4
4

14h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . 7 . .
1 0 0 6 4 9.5 10.2
5 4 3
4 0
1
2
7
3

Rejected 15h.

. B . 7 . . 8 . . . . 9 . 7 .
5.9 5.6 3 1 D 9.2 9.8
1

15h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . 7 . .
2 0 0 5 9.4 10.1
1 1 9.4 9.7
9.4 9.9 9.8
9.4 D
9.2 10.1
9.1 9.8

$-\frac{-1}{1}\ \frac{-2}{1}\ \frac{1}{2}\ \frac{-10}{2}\ \frac{6-9}{6}\ \frac{16}{4} - \frac{7}{3}$ 7

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1895phae.proj.1724.

+0° +1°

Rejected 16h.

B	7	8			9	F
6.0 5.4	2	2 4 3	9.1 9.5			
6.3 6.0	11	6	9.3 9.8			
	0		9.3 9.4			
			9.3 9.5			
			9.1 9.0			

16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		5				3	1 6	9.1 9.5	
								9.1 9.6	
								9.2 9.7	
								9.2 9.5	
								9.2 9.6	

Rejected 17h.

B	7	8			9	F
	2 7	4 6		1	9.3 9.5	
	3	2		D		

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	~~6.8 6.9~~	1	1	4	1	D 4	7 3	9.3	~~9.8~~
	~~4.8 7.0~~	2	D 3		1	D 4	D	9.3	9.5
					3			9.1	9.5

$$- \quad - \quad \frac{3}{2} \quad \frac{-9}{3} \quad \frac{4}{1} \quad \frac{4-1}{3} \quad \frac{8-3}{3} \quad \frac{1}{1} \quad \frac{16}{3} \quad 8$$

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1895phae.proj.1724.

Rejected 18h. +0° +1°

. B . 7 . . 8 . . . . 9 . 7 .
~~6.8 6.8~~ 0 0 D 6 3 0
~~6.8 6.9~~ 1

18h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .
2 0 2 1 3 0 9.1 9.9
0
D 4 1 2
1 0
3

Rejected 19h.

. B . 7 . . 8 . . . . 9 . 7 .
6.7 6.3 8 7 1 2 9.5 9.7
5 3 3
0 8
0
2
6

19h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 . .
0 6 0 1 1 2 9.1 9.2
1 3 1 9.2 9.5
5 2 9.3 9.3
1 3
D 5 9.1 9.4

– – $\frac{-2}{1}$ $\frac{1}{2}$ $\frac{-7}{4}$ $\frac{11-7}{8}$ $\frac{2-1}{3}$ $\frac{6}{3}$ $\frac{8-2}{5}$ 5

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1895phae.proj.1724.

+0° +1°

Rejected 20 h.

. B . 7 . . 8 . . . . 9 . 7 .

~~4 43~~ 6 11 , 3 2 0

D 3

3

9.4 9.6

3

2

20 h.

B 65 . 7 . 75 . 8 , 85 . 88 . 89 . 9 . 7 . .

1 1 1 7 ~~X~~

1 0 2

4

7

Rejected 21 h.

. B . 7 . . 8 . . . . 9 . 7 .

D 1 1 9.2 9.0

D 1 1 9.2 9.2

1

21 h.

B 6.5 . 7 . 75 . 8 , 85 . 88 . 89 . 9 . 7 . .

~~D~~ 8 4 1 1 9.3 ~~8.6~~ 9.0

2 4 ~~D~~ 3 9.2 9.3

3 4 9.3 9.2

10

$$- - - - - \quad \frac{-8}{1} \quad \frac{-32}{8} \quad \frac{1-9}{4} \quad \frac{-1}{2} \quad \frac{1-6}{4} \quad 3$$

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+0° +1°

Rejected 22 h.

. B . 7 . . 8 . . . . 9 . 7 .

D 0 6 1 3

1 8 7 4

4 0

22 h.

B 65 . 7 .75 . 8 .85 .88 .89 . 9 . 7 . .

3 1 3 R 9.3 9.3

10 2 3 R

4

1

Rejected 23 h.

. B . 7 . . 8 . . . . 9 . 7 .

46 45 5 1

3 1

23 h.

B 65 . 7 .75 . 8 .85 .88 .89 . 9 . 7 . .

6 2 3 9.2 R 9.5

2 3

4 1

$$- - - - \frac{3-16}{3} \quad \frac{9-2}{5} \quad \frac{6}{2} - \frac{9-6}{6} \quad 2$$

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$+4^{\circ}+\sqrt{-}^{\circ}$

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.0-5.8	1			3	0	1	5	3	9.3-10.3	
					3	6		4	9.3-9.8	
					0			3	9.4-10.0	
								6	9.3-10.0	
								9	9.2-9.8	
								2		
								6		

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F		
				5	6	3	4	4	9.4-R		5.
					3	2	8	10	9.3-9.8		
					1			3			

1 h.

B.	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.0-6.0					5	4		5	9.3-9.6	
5.0-5.0					1			0		
					1					
					5					

1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
					4	2	5	6		
					~~2~~	2		2		
						1				

$3\ \frac{-1}{1}\ -\ -\ \frac{-3}{1}\ \frac{14-1}{7}\ \frac{11}{3}\ \frac{5}{1}\ \frac{38}{9}$ 6 $-\ -\ \frac{-5}{1}\ \frac{-4}{1}\ \frac{1-9}{3}\ \frac{6-4}{5}\ \frac{17}{3}\ -\ \frac{25}{5}$ 2

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+4° +5°

2h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

5.3-5.1 6 3 1 5 6 3 9.1-9.5

0 14 0 5

6 6

1 5

3

2h

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

~~5.3-9.0~~ 0 0 0 3 8

6 3 7 4 6

3 2 3 7

1 6 4

8 3

3

2

3h.

B. 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

2 5 4 6 3 6 9.1-9.4

9 6 8 9.1-9.4

4 7 0 9.2-9.4

3 4

3h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6.2-5.4 5 1 2 5 8 4 11 9.3-10.2

1 4 11 9.2-9.6

1

2

0

0

1 $\frac{-8}{2}$ $\frac{3-5}{2}$ $\frac{-5}{3}$ $\frac{35-13}{8}$ $\frac{6}{2}$ $\frac{19}{4}$ $\frac{37}{8}$ 4

1 $\frac{-5}{1}$ $\frac{-10}{4}$ $\frac{9-8}{7}$ $\frac{31-5}{13}$ $\frac{15}{3}$ $\frac{15}{2}$ $\frac{36}{5}$ 2

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+4° +5°

4h.

B. 6.5 . 7 . 7.5 , 8 , 8.5 . 8.8 . 8.9 . 9 . F .

8 4 1 5 92-8.9 60.57
6 4 3
0 1 2
0 5 R

4h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6 6 2 5 5 0 92-9.3
8 3 1 1 92-9.5
7 1 7
1 6
4 2

5h.

B. 6.5 . 7 . 7.5 , 8 , 8.5 . 8.8 . 8.9 . 9 . F .

60.58 4 4 1 6 6 2
4 2 8 3
7 1 4 0
5 1 2 2
4 4 4
5
3
0
5
2
7

5h.

B 6.5 . 7 . 7.5 , 8 . 8.5 , 8.8 . 8.9 , 9 . F . .

6 5 3 7 6 6 1 2
5 2 2 2
2 4 2
4
1
6
2
0
5
3

✓ ✓ ✓ −4/1 −38/9 14−31/15 7/2 20/4 19−2/8 1 ✓ 1 −12 ✓ −16/2 −11/2 −20/4 −12/2 29−16/15 6/1 11−2/5 21−1/8 2 ✓

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+4° +5°

6h

B. 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

6	10	11	4	1	3	7	0	9.2-9.4
		~~11~~ 9	8	1	1	1	4	9.1-8.7
			11	5	4	1	8	9.3-9.6
			2	12			3	9.2-8.7
			8	11			0	9.1-9.0
				3			2	
				5			4	

6h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

7	8	4	5	4	1	2	9.2-9.4
4	4	9	9	4	3	3	9.2-9.3
	4	5	3	4		R	9.3-9.4
		3	4	4		5	
				4		8	
				1		5	
						2	
						0	
						1	
						1	

7h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

7	3	5	1	3	3	4	9.2-9.2
5		6	1	1	2	2	9.2-9.0
6			1	3		2	
			5	1		2	
			1	2		4	
			2	2		4	
			3	1		3	
				0		4	
						10	
						0	
						4	
						1	
						6	

7h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

2	4	7	7	1	6	3	3	9.2-9.3
9			2	4		5	4	9.2-9.5
			2	0			1	9.1-9.2
				3				

✓ $\frac{-6}{1}$ $\frac{-28}{4}$ $\frac{-23}{3}$ $\frac{-44}{7}$ $\frac{5-47}{14}$ $\frac{11-10}{11}$ $\frac{1-13}{5}$ $\frac{4-23}{21}$ 7 $\frac{-22}{-13}$ $\frac{-20}{4}$ $\frac{-28}{5}$ $\frac{2-30}{7}$ $\frac{12-17}{10}$ $\frac{6}{1}$ $\frac{5-7}{4}$ $\frac{8-27}{12}$ 6

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+4° +√°

8h.

B.	.6.5	.7	.7.5	.8	.8.5	.8.8	.8.9	.9	F.
	5	4	12	3	1	4		9	
		6		3	1	2		7	
				8	5			1	
					6			4	
					2			1	
					4			2	
					2			2	
					0				
					3				
					1				

8h.

B	.6.5	.7	.7.5	.8	.8.5	.8.8	.8.9	.9	F.	
	4		2	5	5	2	1	9		9.1-9.2
			2	7	0	1	5	8		9.2-9.4
			10		2					
					3					

9h.

B.	.6.5	.7	.7.5	.8	.8.5	.8.8	.8.9	.9	F.	
	3		6	1	1			7		9.1-8.9
			1	0	5			4		
				2	5			1		
					4			0		
					0			3		
					3			2		
								4		

9h.

B	.6.5	.7	.7.5	.8	.8.5	.8.8	.8.9	.9	F.	
	5			0		7		6		
				3		0		3		
				6				1		

$\frac{3-5}{2}$ $\frac{-10}{2}$ $\frac{-19}{3}$ $\frac{-17}{6}$ $\frac{17-16}{16}$ $\frac{6}{2}$ $\frac{40-7}{14}$ 1

$\frac{-9}{-5}$ $\frac{4-10}{3}$ $\frac{-21}{5}$ $\frac{5-5}{4}$ $\frac{-10}{4}$ $\frac{6}{2}$ $\frac{27}{5}$ 2

+2

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+4° +V−°

10 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	4				5	4		6		
					1			2		
					1			0		
								8		
								6		

10 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	62-60	5			3	3		2		
						9		1		
						4		4		
						2		8		
						4				
						0				

11 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	8			2	3	1		8		
					1	2		2		
					0			0		
								4		
								9		

11 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
					3	6	3	5	93-95	
					1	1		X	91-91	
									91-94	

−	−	−12 −4 X 2	−	2/1	5-6/6	7/3	−	45/10	−	1	−5/1	−	−	7/3	10-19/8	3/1	−	20/5	3					

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+4° +√−°

12h

B	6.5	7	.75	8	.85	.88	.89	9	F
	3		4	0		1	5	4	
	0		2	4		5		6	

12h

B	6.5	7	.75	8	.85	.88	.89	9	F
			5	1				1	
			3	1				5	
			0	1				3	
				1					

13h.

B	6.5	7	.75	8	.85	.88	.89	9	F
	3		3	2	3	4		6	
			4	2	1	2		4	
					3			1	
					3				

13h.

B	6.5	7	.75	8	.85	.88	.89	9	F
	4		0		4	7		5	
			~~30~~ 1		2				
			~~31~~		3				

✓ 3-3/3 ✓ 13/4 6-2/4 4-6/4 11-1/4 5/1 21/5 ✓ ✓ 4/1 ✓ 1-8/5 3-1/4 9/3 7/1 ✓ 14/4 ✓

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+4° +√−°

14h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1		1	1	2	2	0	1	9.4-9.5
			1		5	2			9.3-9.7
					0				9.3-9.7
					3				
					1				

14h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	6.2-6.1		2		2	2		3	9.1-9.4
					1				
					4				
					4				
					2				
					1				

15h.

B.	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
3.5-3.8		2		9	0	4	1	3	9.1-9.4
6.1-5.9					2				
					2				

15h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	10		5		0	2		2	9.1-8.8
			2		5				
					5				
					0				

$$2^{\vee}\ \frac{-1^{\vee}}{1}\ \frac{2^{\vee}}{1}\ \frac{-2^{\vee}}{2}\ \frac{1-9^{\vee}}{2}\ \frac{1-14^{\vee}}{8}\ \frac{6-2^{\vee}}{3}\ \frac{-1^{\vee}}{2}\ \frac{1-3^{\vee}}{2}\ 4^{\vee}\quad {}^{\vee}1\ \frac{-10^{\vee}}{1}\ \vee\ \frac{2-7^{\vee}}{3}\ \vee\ \frac{5-19^{\vee}}{10}\ \frac{2-2^{\vee}}{2}\ \vee\ \frac{5^{\vee}}{2}\ 2^{\vee}$$

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$+4^\circ$ $+5^\circ$

16h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	
6.1-5.7		2	1	4	2	3	3	9.2-9.3	
		5		4	1		0	9.1-9.1	
							0		
							0		

16h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	
		3			1	0		0		
					0					
					2					

17h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	
		2	1	3	1	1	2	1	9.1-9.2	
		2		6	1	1		4	9.3-9.3	
		0		3	1	8		4		
		2			2			0		
					3			0		
					1					
					1					
					2					

17h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	
		1		1	2	1		0		
		4		1	2			6		
				1	R			2		
				10	1					
				5	2					

$+^{\vee}$ $-^{\vee}$ $\frac{2-4}{4}^{\vee}$ $\frac{3}{2}^{\vee}$ (8, 3) $\frac{3-10}{4}^{\vee}$ $\frac{16-4}{10}^{\vee}$ $\frac{4-9}{5}^{\vee}$ $\frac{5}{2}^{\vee}$ $\frac{8-4}{9}^{\vee}$ $4^{\vee}$

$\sqrt{}$ $-^{\vee}$ $-$ $\frac{5-3}{3}^{\vee}$ $-^{\vee}$ $\frac{2-16}{5}^{\vee}$ $\frac{6-4}{7}^{\vee}$ $\frac{-1}{2}^{\vee}$ $-^{\vee}$ $\frac{6-2}{4}^{\vee}$ $-$

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+4° +5°

18h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	1	4	3	1	0	0	0	5	9.3-9.6	
		2	0	0	0		1	8		
		5		1	2		3	0		
					0			2		
					2			0		
					5					
					4					
					3					

18h

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	3	5	2	6	1	6	2	1		
	5	1		2	1		5			
		9			3		1			
					2					
					1					
					1					

19h.

B.	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	1	2	2	2	0	1	5	8	9.2-9.2	5.0-5.3
	3	2	1	5	2			4	9.2-9.5	
		4	3	4	2			4	9.2-9.4	
			2		2			2	9.1-9.9	
					1				9.3-9.4	
					0					
					1					
					3					

19h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	2	5	0	1	3	0	3		9.2-9.6	
	5	2	1	3	5	1	2		9.1-9.2	
	2		2	2		0	2			
	2			1		0	4			
	1			4		1	5			
				1						
				3						

—	−5/3	4−15/6	8−3/6	2−11/6	25−2/16	−1/2	5−4/4	31−2/9	6	1	−8 / 3 / +2	18 / 9−9 / ×8	4−5/3	−11/5	7−17/13	11−3/3	7−3/8	14−3/6	2	

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+4° +5°

20 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
5.5-5.5	1	0	0	2	1	1		0	9.1-9.0
5.5-6.1		2	1	3	2			3	9.3-9.2
					3			0	
					3			1	
					4			0	

20 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.0	0	1	1	3	0		2	1	
				2	0		1	8	
								7	
								3	
								0	
								2	

21 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	2	2	2	2	1	4	6	1	9.2-9.4
	6		2	3	3	2		2	
			1		0	2		7	
					3			2	
					1			0	
								2	
								1	

21 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-5.7	2	3	2	0	3	2	3	5	
5.5-5.8	0		1	2	4	3	2	6	
			1		1		2	1	
					4				

✓ 2 | ✓ 9/2/3 | ✓ -4/3 | ✓ 5-1/5 | ✓ 5-5/4 | ✓ 13-8/10 | ✓ 3-6/4 | ✓ 6/1 | ✓ 5-14/12 | ✓ 3

✓ 3/1 | ✓ 2/2/3 | ✓ 1-3/2 | ✓ 4-1/4 | ✓ 2-5/4 | ✓ 9-3/6 | ✓ 3-2/2 | ✓ 8-2/5 | ✓ 33/9 | ✓

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22 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 .

7 1 2 3
1 1 10 0
1 11
5 6
7 5
5 9
4 9
3 7
5 11
7

22 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 .

6157

2 1 3 5 9.2-9.6
2 2 2 6 9.4-9.9
0 11
2

23 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 .

42-44

0 2 6 8
0 10
0
4

23 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 7 .

5 7 0 5 1 4 9.1-9.2
1 1 5 5 9.3-9.6
3 2
6

1 — — — 1-7 / 2 38-1 / 11 12-2 / 4 6 / 1 83 / 13 —

1 — — 5 / 1 2-10 / 5 7-6 / 6 28-2 / 7 1 / 1 20 / 4 4

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+9° +10°

0 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	f
	5	1	2			3		0	
		0				6			

0 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	f	
		5	3		4	5	5	4	9.1-9.6	5
		8				6				
						6				

1 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	f	
	4	5	3	2	1	4			9.3-9.8	
		4	0						9.3-9.9	
		0							9.2-9.9	
		4								

1 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9	f	
	4	1	5	2	4	1		0	9.1-9.4	
		2	1	1	3	6		4	9.1-9.4	
					5			2	9.2-9.5	
					5			5	9.3-9.8	
					4			2	9.3-9.9	
					2			3		
								0		
								5		

–	4-5	10-4	5	2	1	13	–	0	3	
	×2	4	3	1	1	3		1		
		6								

–	4	1-15	6-3	2-1	27	23-1	5	23-2	6	
	1	4	3	2	7	5	1	9		

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+9° +10°

2 h.

B	6.5	7	.75	8	.85	.88	.89	9	F
57.56		2	4	1	1	5	6	4	
		4	1	2	5	3	.	9	
			0	1					
			3						
			8						

2 h.

B	6.5	7	.75	8	.85	.88	.89	9	F	.
			1	2	4	1	0	1	1	
			2		0			2	3	
			8		3				0	
			8		0					

3 h.

B	6.5	7	.75	8	.85	.88	.89	9	F	.
5	5	3		1	2					
	5			6	0			3		
	4							6		

3 h.

B	6.5	7	.75	8	.85	.88	.89	9	F	.
			1	3		3		7	93-96	
			2	3				4	92-89	
								2		

5-15/5

1 5/1 5/11 -15 4-7/5 3-1/3 12-1/4 2-8/4 6/1 22/4 —

— — 1-18/4 3-2/3 10-3/6 -1/1 -3/2 3/2 17/6 2

6

1895phae.proj.1724.

+9° +10°

4h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
43-44	7	9	2	5	R			1	9.2-9.1	
53-47	1	4		9	2			1	9.2-9.3	
6.2-6.2		6						1	9.1-8.7	
		5							9.1-9.0	
									9.3-9.4	

4h.

B	6.5	.7	.75	.8	.8.5	.88	.89	.9	F	
	4	3		7	2			1	9.1-8.8	
				6	1			1	9.2-9.3	
				1				1	9.1-9.0	
				1				0		
								0		

5h.

B	6.5	.7	.75	.8	.8.5	.88	.89	.9	F	
	4	5	1		1		2	1	9.3-9.2	
	7				1		7	6	9.1-9.1	
					3					
					1					
					1					
					1					
					4					

5h.

B	6.5	.7	.75	.8	.8.5	.88	.89	.9	F	
	8	1	2	2	0	1	0	3	9.1-9.0	
	5		2	1	2		0	1	9.3-9.1	
	0		6		1			0	9.1-9.1	
			5		2			2	9.2-9.2	
					3			2		
								0		

3 8-11/14 -29/5

7 4/1 13/2 -3/2 -14/2 2-12/8 -9/2 1-9/5 7 -17/4 -4/2 -15/4 -28/8 2-16/6 -11/7 1/1 0/2 5-6/11 7

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+9° +10°

6h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
	10	6	9	2	7	1		2	9.1-9.0
	5		7	2	7	0		0	9.2-8.7
	7				4	1			
					10				
					5				
					2				

6h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
	4.0-4.7	0	3	1	1	6	4	1	9.2-9.0
	6.1-5.9	6	1		2	1	2	2	
			9		7	3	1	0	
			2		1			3	
					6			0	
								1	
								0	

7h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
	7		6	8	3	1	1	1	9.1-9.3
			7	4	0	1	2	4	
			3	6		2		1	
			2	1		1		2	
			1			3			

7h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
			9	2	1	3	1	3	
				2	7	1		1	
				1	7			7	
				3	3			3	
					1			0	
					4			7	
								5	

✓ $\frac{-29}{4}$ ✓ $\frac{-6}{1}$ ✓ $\frac{-35}{7}$ ✓ $\frac{-23}{6}$ ✓ $\frac{-38}{8}$ ✓ $\frac{3-7}{8}$ ✓ $\frac{2-1}{2}$ ✓ $\frac{5-5}{6}$ ✓ 3

✓ 2 ✓ $\frac{-6}{2}$ ✓ $\frac{-15}{4}$ ✓ $\frac{-10}{2}$ ✓ $\frac{2-6}{4}$ ✓ $\frac{1-39}{11}$ ✓ $\frac{3-11}{5}$ ✓ $\frac{1-7}{4}$ ✓ $\frac{6-27}{14}$ ✓ 1

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+9° +10°

8h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
6.0–6.4		4	7	3	3	4	1	4		
			3	9	8	1		1		
			0	9	5	4		4		
				1	0					
					0					

8h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
6.0–5.9		5	5	8	4	6	2		1	9.2–8.7
			2	9	3	1			3	9.3–9.3
					5	0			8	9.3–9.2
						0			4	
						1				
						1				
						3				
						3				

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
6.2–5.8		5	6	5	3					
		3		0						

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
					3	2		1	3	
						0				
						3				
						2				
						2				

2 ✓ ✓ 3–9 ✓ / 3 / 3

-16 ✓ / 4 | 9-18 ✓ / 6 | 6-13 ✓ / 6 | 5-4 ✓ / 3 | -1 ✓ / 1 | 9 ✓ / 3 | ✓

✓ 1 | -5 ✓ / 1 | 2-5 ✓ / 2 | -17 ✓ / 2 | 3-12 ✓ / 4 | 13-11 ✓ / 13 | -2 ✓ / 1 | 1 ✓ / 1 | 7–12 ✓ / 5 | ✓ 3

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+9° +10°

10h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

6.2-5.7 0 3 5 6 0 9.3-9.6
3 3 5
5 3

10h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

41-36 12 0 4 2 4 3 9.2-9.2
1 4
0

11h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

7 7 5 2 9.1-9.5
0
3
2

11h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

4 0 1 2 6
2 2 0
2
1
3

✓ ✓ ✓0/1 ✓-10/2 ✓-13/3 ✓-17/4 ✓ ✓ ✓12/6 ✓2

✓ ✓ ✓-12/1 ✓14/3 ✓-4/2 ✓-9/5 ✓8/3 ✓ ✓15/6 ✓

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+9° +10°

12 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	1	4	2	2	1	3	1	5	9.2-9.0	
			6	7	3			6		
				2	0			0		
								4		
								3		
								3		

12 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	7		6	5	0	6	1	5	9.2-9.4	
				3	5		6		9.2-9.3	
				7	5		4			
					0					

13 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
6.0-5.8	3	3			0	1		7	9.1-9.5	
					2				9.2-9.4	
					2					
					2					

13 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
6.0-5.2	6	3	0		0	5	5			
	4		5		3		5			
					5					
					2					
					1					
					3					

-4/2

✓ 1	✓ -3/1	✓ -7/2	✓ -8/2	✓ -11/3	✓ 8-2/7	✓ 4/2	✓ 1/1	✓ 28/7	✓ 3	
✓ 1	✓ -17/3	✓ -3/1	✓ -11/3	✓ -15/3	✓ 17-7/10	✓ 11/2	✓ 21/5	✓ 5/1	✓ 2	

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+9° +10°

14h

B 6.5 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

4 2 3 1

5 0 !

0

14h

B 6.5 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

2 4 2 3 5 93-98

3 2 6 6

2 0 3

4

5

2

15h.

B 6.5 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

3 4 7 4 2 1

10

15h.

B 6.5 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

62-54 4 2 1 0 2 2 1

1 4 5 3

5 3 3

✓ −3/1 ✓ −4/1 ✓ −7/1 ✓ −14/2 ✓ 9-2/4 ✓ 2-1/3 ✓ 4/2 ✓ 1/1 ✓

✓ 1 ✓ −5/2 ✓ 4-14/6 ✓ −15/5 ✓ 15-10/9 ✓ 5/2 ✓ 2/1 ✓ 15/4 ✓ 1

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+9° +10°

16h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F		
	3		2	2	1		0	9.1-9.3	62-56		
	1			1				9.3-10.0			
	0			1							
	0			3							
	2										
	2										

16h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F		
	2	6	2	2	1		3	9.1-8.9			
	6	0	0	3			1	9.2-9.3			
	2	3		1							
	2			3							

17h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F		
	9	3	4	3	1		3	9.3-9.8			
		0		1	3						
		2		4	2						
		2		3	2						
					2						

17h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F		
		5	3	0		2	1	9.1-8.7			
		4	3	3		0	10				
			1	3			5				
				0			6				
							2				

✓	✓ −9 / 1	✓ 8−7 / 10	✓ −4 / 1	✓ 3−10 / 5	✓ 11−6 / 9	✓ 1 / 1	✓	✓ −3 / 2	✓ 3

✓ 1	✓ −	✓ 2−10 / 4	✓ −18 / 5	✓ 4−5 / 5	✓ 9−6 / 8	✓ 1 / 1	✓ −2 / 2	✓ 28 / 7	✓ 3

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+9° +10°

18h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	1	6	0	5	0	5	3	0	9.2-9.5	
			1	2	0		1	9		
				3	4		2	3		
				6	5		1	1		
				3	1					
				1	0					
				2	1					
					0					

18h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	4	0	5	4	5	4	1	3		
	1	1	0	3	1	1		3		
				0	1			2		
				0	4			1		
				1	1			1		
					0			4		
					2			1		
					0			2		

19h.

B.	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.0-6.5	4	0	2	4	1		1	4		
	5				3		1	3		
	1				2		0	2		
					1			1		
					1			2		
								7		
								1		
								3		

19h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.1-6.3	1	3	0	4	1	2		3	9.1-~~9.6~~ 9.0	
5.5-5.4		1	2	1	2	2		5	9.1-8.9	
		~~14~~ 2		4	4	1		0		
		7		2	4	3		4		
		3			2	1		4		
		1			~~5~~ 3	3		1		
		0			3					
					0					
					3					
					1					
					3					
					1					

✓ 1	✓ 1-4 / 2	✓ -12 / 4	✓ 2-1 / 3	✓ 24-2 / 8	✓ 16-3 / 13	✓ 5 / 1	✓ 8-1 / 7	✓ 33-3 / 12	✓ 1	✓ 2	✓ -6 / 3	✓ 5-13 / 9	✓ 7 / 4	✓ 12-7 / 9	✓ 33-8 / 20	✓ 11-6 / 8	✓ 1 / 1	✓ 28-6 / 14	✓ 2

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+9° +10°

20 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	0	1	2	4	2	2	1	0	
		0	11	1	2	1	2	3	
			2	2	2	0	4	3	
				3	3			2	
					2			1	
					0			1	
					1			4	

20 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	2	2	0	2	2	6	0	2	
		3		0	0		3	0	
				5	1			2	
					0			7	
					2				
					1				
					0				
					5				

21 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.2-6.0	4	3	4	5	3	2	0	1	9.2-10.1	
	1		3	4	1	3	5		9.1-9.2	
			6	2	4	4	4		~~9.1~~	
			1		5	5				
			2		5					
					0					

21 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.2-5.8	1	1	6	8	2	7	7	2	9.1-9.7	
	2	1	3	4	4			2	9.2-9.3	
	4		~~1~~		3			3	9.1-9.8	
	1				1					
					2					
					1					
					1					
					6					
					3					
					1					

✓1 ✓4-1/3 ✓3-1/3 ✓13-18/8 ✓12-9/7 ✓24-6/13 ✓17/7 ✓16/6 ✓12-3/8 ✓2

✓1 ✓3-7/5 ✓3-4/4 ✓6-3/3 ✓19-3/6 ✓17-18/18 ✓13/2 ✓10/3 ✓18/7 ✓3

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+9° +10°

22 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
		3	2	2	1	5			9.1-9.0	35-40
		6	1	1	3				9.1-9.3	6.1-5.9
				5						

22 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
			1	0	1		2	9	9.2-9.5	
			9	0	3			3	9.1-9.3	
			2	5	1			0		
			1	2				2		

23 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	1		1		4	4		2	9.1-9.2	6.2-5.9
					0			4		6.0-5.4
								7		
								3		
								2		

23 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
		4	0	1	3	2	0	3	9.2-9.6	
		4	1	6	1			3		
				3	0			8		
				0	6					

✓ ✓

1/1 −3/1 2−7/3 3/2 10−1/5 12/3 −8−10/5 3 4 − 4−4/2 1−13/6 11−6/8 11−4/7 2/1 2/2 28/7 3

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+14° +15°

0 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9.	F	
6.1-5.9		3	4	9	1		5		9.2-9.7	
					1					

0 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9.	F	
	1	2		1				2	9.1-9.1	
		1		0				6	9.3-9.7	
		1							9.2-9.9	
		2								

1 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9.	F	
	1	3		4	2	5	3	4	9.1-9.3	
		0			4	8	7	3		
					6			5		
					0					

1 h.

B	6.5	f	7.5	8	8.5	8.8	8.9	9.	F	
	6	1	3	1	2				9.2-9.5	
	3		1	2	10				Neb. 7	
			0	3						
				0						

1	-1/1	6/3	-4/1	-13/2	13-1/6	13/2	15/3	12/3	2

–	-10/3	2-5/5	1-3/3	1-6/6	12/2	–	–	8/2	4/5

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2 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F
6.0-5.9	5		3	2	3		4		
			5		5				
			6		0				

2 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	1	5		0	4	3		2		9.1-9.0
	2									

3 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F
	0		4	3				3	
	5							5	

3 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
				0	0	5	2		1	9.2-9.5
				0	0	1				9.2-9.4
					2	2				9.1-9.3
						4				
						8				

$$1 \;\; \frac{-10}{3} \;\; - \;\; \frac{12-6}{4} \;\; \frac{3-2}{2} \;\; \frac{8}{3} \;\; - \;\; \frac{-4}{1} \;\; \frac{5-3}{2} \;\; -$$

$$- \;\; \frac{2-1}{2} \;\; \frac{5}{1} \;\; \frac{0}{2} \;\; \frac{2}{4} \;\; \frac{27}{7} \;\; \frac{2-3}{2} \;\; - \;\; \frac{2-1}{2} \;\; 4$$

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4h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	5	5	7	7	1	3		2	91-93	
	1		2	1	2	0			92-96	
	7				2					
	3									
	0									

4h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	2	4	12	3	0	1				
	11		6							
	4		3							
	7									
	2									

5h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
6.0-5.8	4	3	1	4	4	2	2	9.1-9.1		
	0		3	3	1	1	2			
			7	2	1		3			
			2	1			0			
				2			R			
				1						

5h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
6.2-5.9	2	4	2	8	4		0	3	9.1-9.3	
	8		1	3	1		2		9.3-9.2	
				0	1		3			
				3						
				5						
				4						

1	1-15	-9	-12	3-18	6-12	3-6	-3	4-5	3	1	13-23	-8	9-15	-26	1-8	1	2-3	3	2
	5	3	3	6	9	5	2	65			7	2	5	7	4	1	3	1	

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+14° +15°

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.0-5.6	0	0	9	7	0			0	9.3-9.4
	0	3	4	4	0			0	9.3-9.5
			0	2	1			1	9.2-9.2
			1		2			1	9.1-9.0
			5		1			4	9.3-9.4
					1				9.3-9.5
					4				9.2-9.4
									9.2-9.3
									9.1-9.0
									9.3-9.3
									9.3-9.6
									9.2-9.2

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	2	4	0	2	3	1	6		9.3-9.6
	2	0		3	3	2	4		9.1-9.4
	1	4		2	0		0		
	0	1		0	1		R		

7h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.0-5.7	1		5	2		2		1	9.3-9.4
	2			3		2		1	9.3-9.5
	1							3	9.3-9.2
	1							8	9.4-9.5
									9.2-9.7
									9.1-9.1
									9.3-9.7

7h

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	4	1	0	1	1		4		9.1-9.3
	1	4		4	2		3		
	10	1		7			2		
	3			1			0		
				2			1		

2	4-1	-3	1-23	-18	1-8	-4	-	8-11	19	-	-	5-18	5-10	0	3-19	5-5	3	4-16	3
	6	2	6	5	7	2		9				8	7	2	9	6	2	8	

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+14° +15°

8h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
62-58	3	5	4	3	2	2	4	2	93-96	
		2		0			1	0	93-93	
				0				1	93-98	
				0				3		
				2				3		
				3						
				0						

8h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	2	3	3	1	1	5	3	1	93-94	
	3				2		4	3	93-95	
	10				2			4		
	5							1		
								4		

9h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
60-57		1	0			0	1	2	92-98	
						2			92-96	
									93-103	
									92-92	
									91-94	

9h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	2	6	1	2	1		3	12	91-93	
		2		1	1				92-94	
				3					93-94	
				1					92-94	
									92-93	
									93-R	

2	-3/1	2-6/3	4/2	5-3/7	2/1	4/3	6/3	11/6	8

–	10-12/5	3-8/3	-4/2	3-5/54	-7/5	5/1	10/3	25/6	8

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+14° +15°

10h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.0-5.7			0	4	3	0	1	0	
5.8-5.6						5		0	
								8	

10h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
		3	1		5		5	2	4	9.3-9.8
					5				

11h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
		4	6		0				9.1-9.1
					3				9.3-9.7
					4				
					5				
					0				

11h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
		1	6	8	4	0		1	
			11	7					

2 − 4/1 −6/2 4/1 7-8/6 5/2 −1/1 8/3 2

− −4/2 −18/3 −15/2 14/3 0/1 5/1 2/1 4-1/2 1

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+14° +15°

12h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	
59-55	8	3		0	6		4	9	91-94	
	1				5			9		
								6		

12h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	2	3	2	4				5		
			10	11				3		
				5				8		

13h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	
	6		4	5	1	≠	2	2	91-87	
			1	1					91-94	
			2	5						
				0						

13h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	7	7	6	3	3			1	93-91	
		3		0	1					

✓ 1 $\frac{8-7}{3}$ $\frac{-3}{1}$ $\frac{4-3}{3}$ $\frac{-11}{5}$ $\frac{12}{3}$ ✓ − $\frac{6}{2}$ $\frac{26}{4}$ ✓ 3

✓ − $\frac{-7}{1}$ $\frac{-12}{3}$ $\frac{-9}{2}$ $\frac{-12}{2}$ $\frac{9-14}{5}$ $\frac{4}{2}$ ✓ − $\frac{16-1}{4}$ ✓ 1

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+14° +15°

14h.

B	6.5	.7	.75	.8	.85	.88	.89	q.	F.
	5	1						0	9.1-9.2
		0						7	9.2-9.5
		3						3	
								2	

14h.

B	6.5	.7	.75	.8	.85	.88	.89	q.	F.
6.2-6.0	1	3	3	1	1	4	5	2	9.3-9.5
6.2-5.8		0	3		1				9.1-9.9
					1				9.3-9.8
					3				9.1-9.4
									9.1-9.3
									9.1-9.5
									9.4-9.8

15h.

B	6.5	.7	.75	.8	.85	.88	.89	q.	F.
6.0-5.7		7	1	1	1	2		0	9.1-9.5
6.0-5.7		4		2	4	2		0	9.2-9.3
								2	

15h.

B	6.5	.7	.75	.8	.85	.88	.89	q.	F.
	2	1	3	1	2	1	2	3	9.1-9.3
					3			0	9.2-9.3
								4	9.4-9.9

$2^{\checkmark}\ \frac{-5^{\checkmark}}{1}\ \frac{7-8^{\checkmark}}{5}\ \frac{-1^{\checkmark}}{1}\ \frac{3^{\checkmark}}{2}\ \frac{1-4^{\checkmark}}{2}\ \frac{4^{\checkmark}}{2}\ \vee\ \frac{11-3^{\checkmark}}{7}\ ^{\checkmark}4$

$2^{\checkmark}\ \frac{2-1^{\checkmark}}{2}\ \frac{3-1^{\checkmark}}{3}\ \frac{6-3^{\checkmark}}{3}\ \frac{2^{\checkmark}}{2}\ \frac{6-5^{\checkmark}}{6}\ \frac{1-4^{\checkmark}}{2}\ \frac{7^{\checkmark}}{2}\ \frac{5-4^{\checkmark}}{4}\ ^{\checkmark}10$

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+14° +15°

16h.

B	6.5	7	7.5	8 R	8.5 R	8.8	8.9	9	F
	4	2		1	1			0	93-97
	0	6		3				3	94-98
	0			5				1	91-93
								4	91-94

16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.1-6.5	10	7	0	2	2		2	4	91-90	3
6.2-6.2	1	2	5	1	2		1			
		3	1	2	1					

R. Dm +14° 3011 8.7
R - +14° 3012 8.2
} Double in D.M. Combined

light measured in M.O. 8.19

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
6.2-6.7	8	4	1	1	5	4	4	0	92-95
		1	1	6	1			4	
					2				
					3				
					5				
					0				
					2				
					1				
					0				

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.2-6.5	1	0	2	2	4	0	5	1		6
	2	7	1	4		4		2		6
		5	7	2						
				1						
				4						
				4						
				1						
				0						

✓1 ✓12/4 ✓11-2/4 ✓1-1/2 ✓14-2/5 ✓15-5/10 ✓4/1 ✓4/1 ✓12/6 ✓5

✓3 ✓12-2./4 ✓17-7/6 ✓13-3/6 ✓22-1/11 ✓8-1/4 ✓4/2 ✓7-1/3 ✓7/3 ✓1

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+14° +15°

18h.

B	65	.7	.75	.8	.85	.88	.89	.9	ℱ	
39-43	3	2	6	2	3	1		6	91-89	
	4	5	3	4	3			1		
	1	4	2	3				1		
	4	3	2	1						
	0		1	4						
			0							

18h.

B	65	.7	.75	.8	.85	.88	.89	.9	ℱ	.
	2	0	1	1	3	1	5	2		
	4	6	9		0		5	3		
	5	4	2		3		2	3		
	2	3			2		1			
		1			4					
					3					

19h.

B.	65	.7	.75	.8	.85	.88	.89	.9	ℱ	.
61-58	2	1	1	4	3		0	4	93-93	
60-58	1	4	1	2	4		2	0		
	0	3	1	1	1		3	3		
	5	1	0	0	3			3		
	7	3	4	1						
	3		4							
			5							

19h.

B	65	.7	.75	.8	.85	.88	.89	.9	ℱ	.
60-67	5	2	2	3	1		0	3	93-92	
	2	9	4	0			2			
		5	3	1						
				2						
				1						
				2						
				2						

✓3 ✓26-4/11 ✓18-8/9 ✓24-6/13 ✓11-11/10 ✓9-8/6 ✓-1/1 ✓-5/3 ✓14-4/7 ✓2

✓1 ✓18/5 ✓15-3/7 ✓16-12/6 ✓11/4 ✓15-9/13 ✓1/1 ✓7-8/6 ✓5-6/4 ✓1

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+14° +15°

20h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.0-6.2	4	1	7	1	2	0		3	92-94	
	1	3	8	0	0	4		2	91-90	
		4		1	2	2		1		
				0	1	1		4		
				5	1	2		5		
					0	2		3		
					3					
					3					
					2					

20h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	4	2	1	0		1		2	91-93	
	2	1	0	1				1		
		1	2							
		0	5							
		1	3							
			3							

21h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	2	1	1	0	2		3	1		
	3	5		1	2		3	0		
	2			3	0			6		
					0			1		
								4		

21h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	2	1	3	4	5	0	4	3	92-94	
	4	5	3	4	3	2		2	93-97	
	3	1		2				1	92-94	
				0				2	92-93	
				1				3	91-95	
				0					91-92	

1	5-7	10-4	8-8	10-1	13-5	10-1	6	30	2
	5	5	3	8	13	6	2	11	

–	11-4	9-3	5-15	10-2	5-3	2-1	-4	14	7
	5	8	8	8	2	3	1	7	

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+14° +15°

22h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
		2	3	3	2			6		
		3		3	4			10		
		2			2					
		1								

22h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
		2		5	3	2		4	9.1-9.3	
		3		1	4	2		1	9.1-9.4	
		3		10				5		
								3		

23h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
		2	1	3	2				9.2-9.4	
				2	1				9.3-9.5	

23h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
		2	0	0	3	0	5	2	9.5-9.6	
			2	0			0		9.1-9.5	
									9.2-9.7	
									9.3-9.6	
									9.3-9.5	

✓	✓	✓ 3-5 / 4	✓ 5 / 2	✓ 4-8 / 4	✓ 7.5 / 5	✓ 2 / 1	✓	✓ 16 / 2	✓ 2	

✓	✓ 5-5 / 4	✓ 2 / 2	✓	✓ 5-11 / 5	✓ 10 / 3	✓ 4 / 3	✓ 5 / 2	✓ 11-4 / 5	✓ 7	

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+19° +20°

0 h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
	5	5	1		7	4	3	6	
	1	4			1	2		6	
	7							0	
								4	

0 h

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
6262	1	3	7		1		2	4	
	0	3	1				3	4	
			4						
			5						
			3						
			3						

1 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
57.56	0	2	1		3	2	5	4	
6.2-6.3	8	4	7					4	
			1						

1 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
25.24	5	2			3	2		2	
	3				1			4	
								4	

✓ 2 | 13-8 / 5 | ✓ 15 / 4 | ✓ 3-7 / 4 | ✓ | ✓ 11 / 3 | ✓ 8 / 3 | ✓ 8 / 2 | ✓ 24 / 6 | ✓

✓ 2 | ✓ 6-3 / 4 | ✓ 8 / 3 | ✓ 15-8 / 6 | ✓ | ✓ 5 / 3 | ✓ 2 / 1 | ✓ 5 / 2 | ✓ 18 / 5 | ✓

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+19° +20°

2 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∓ .

60-62 2 2 5 3 6 6

3 6 1 4

3 6

2 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∓ . .

60.59 1 4 4 0

3 5

3 1

6

2

3 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∓ .

4 6 1 4 4 93-92

4 1 8

6 6 3

0 5

3 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∓ . .

60-64 2 1 0 3 6

62-62 4 2 4

0 2

1 -2/1 11-8/6 5-6/2 6/1 11/4 14/4 = 33-3/7 1

3 − 4-2/3 6-2/4 4/2 20-5/8 − 10/2 0/1 −

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+19° +20°

4h

B	6.5	. 7	. 7.5	. 8	. 8.5	. 8.8	. 8.9	. 9	. F	.
6.2-5.6	3	2	5	1		0	3	6		
	1			3				5		

4h

B	6.5	. 7	. 7.5	. 8	. 8.5	. 8.8	. 8.9	. 9	. F	.
6.2-5.2	3				6	3		3		
6.2-6.0					0			2		
					2			5		

5h.

B	6.5	. 7	. 7.5	. 8	. 8.5	. 8.8	. 8.9	. 9	. F	.
	1	4	2	4	4	2	6	2	9.1-9.4	
	3	1	2	2	3	0		0		
	5	4		2	1			2		
	1				7			*R		
	4				1			4		
					7					

5h.

B	6.5	. 7	. 7.5	. 8	. 8.5	. 8.8	. 8.9	. 9	. F	.
5.1-4.6	1	6	7		1	4	1	0		
			1		0	0	1	0		
			7		3					
			6		1					
			2		2					
					1					

1	10-8	11	4-5	9-3	11-12	2	9	13-6	1	
	7	4	3	5	6	3	2	6		

3	-4	-6	6-17	-	11-5	4-3	-2	10	-	
	2	1	5		9	3	2	5		

* Dm +19° 1162 } 9.0
+19° 1163 } 9.0
Double in Dm. Combined
light 8.75 measured in M.P.

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+19° +20°

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.	
6.0-5.7		3	1	5	1	0	3	3	9.2-8.8	
6.2-5.2			2		1			2	9.1-9.0	
			1		6					
			4		1					

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.	
		6	3	3	1	2	1	1	9.1-9.2	
				7	1		3	0	9.2-9.6	
					1			3		
					1			0		
					1			6		
					0			2		
					1			0		

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.	
	4	0	1		2			4	9.3-9.2	
			4		3			2	9.2-9.3	
					0			1	9.4-9.6	

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.	
	5	2	2	0	7	2		2	9.2-9.4	
	2	8	1	2		2		3	9.1-8.9	
			4	6					9.1-9.1	
			1	0						

✓2 ✓ −4/1 ✓ −3/2 ✓ −13/6 ✓ −5/1 3−11/7 ✓ 0/1 ✓ −3/1 6−6/5 ✓5 ✓ ✓ −7/2 ✓ −16/3 ✓ 1−10/5 ✓ 10−8/6 ✓ 4−9/8 ✓ 4−2/3 ✓ 4/2 ✓ 15−2/9 ✓5

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+19° +20°

8 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	3	6		2	5	0	3	4	9.1-9.4	
		0		3	5				9.2-9.6	
				~~10~~ 0	1				9.3-9.8	
					1				9.1-9.4	

8 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	3	1	12	2	2			2	9.2-9.6	
	5	11	10	3					9.2-8.9	
	10	8	8	2					9.1-9.6	
	4	10		0					9.2-10.00	
		9							9.3-9.5	
		6							9.2-9.5	
									9.3-9.6	
									9.1-9.8	

9 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	3		2	0	5	3	3	3	9.3-9.2	
			1	3	1		3	6	9.1-9.4	
			2		3					

✓	3-3 / 2	6 / 2	3-2 / 3	3-5 / 5	12-9 / 7	3 / 2	6-3 / 3	13 / 3	6	✓

9 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	5		2		2		1	4	9.2-9.7	
	4		7		4			4	9.1-9.4	
	4									

✓	13 / 3	-12 / 4	9-45 / 8	-30 / 3	6-7 / 6	-2 / 1	1 / 1	8-2 / 3	10	✓

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+19° +20°

10h.

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. F .
1 6 0 5 3 9.1-9.6

10h.

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. F . .
6 5 1 4
6
2

11h.

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. F .
5 0 4 9.3-10.00
3 0 8 9.2-9.6
9.2-10.05
9.1-9.6

v v v 3-11 v 0 v 20 v v 3 v 5
1 3 3 4 1

11h.

B 6.5 . 7. 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. F . .
3 3 7 5
5 2

v v v 5.12 v 5-3 v 5 v 10 v 9 v v v
4 2 1 3 2

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+19° +20°

12 h.

B .65 . 7 . 75 . 8 .85 . 88 . 89 . 9 . F .
4 7 6 2 5 6 6
4 3 2
4

12 h.

B 65 . 7 . 75 . 8 . 85 , 88 . 89 . 9 . F . .
1 3 3 5 4 12
2 11 6
5
2

13 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .
2 2 0 4 1 0 9.2-9.4
0 5 3
1 4 4
1 0
4
4

13 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .
4 6 3 3 4
3 6
4
1

$$\frac{2-5}{4} \quad \frac{16-11}{7} \quad \frac{-9}{2} \quad \frac{6-13}{8} \quad \frac{9}{2} \quad \frac{7}{2} \quad \frac{6}{2}$$

$$\frac{1}{1} \quad \frac{-7}{2} \quad \frac{3}{1} \quad \frac{11-5}{4} \quad \frac{30-6}{8} \quad \frac{-3}{1} \quad \frac{18-4}{3}$$

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+19° +20°

14 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
1.0-0.6	9	1	4	1	5			2	9.2-9.5	
	10	0	1	3	4					
	1				1					
	3				4					

14 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	1	1	3	5				3	9.2-9.8	
		1		6				6	9.1-9.7	
		5		3						
		1		2						
				3						

15 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.1-5.8	3	6	0		2	2	5	5	9.1-9.2	
6.2-6.2					1	2			9.4-9.7	
									9.3-9.6	

15 h

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
4.5-4.5		5	0	1				0	9.1-9.5	
6.2-5.6			2	5					9.4-10.2	
			4	2					9.3-9.6	

$\overset{v}{3}$ $\frac{-2\overset{v}{6}}{5}$ $\frac{-\overset{v}{7}}{3}$ $\frac{-\overset{v}{5}}{3}$ $\frac{\overset{v}{4}}{2}$ $\frac{12-\overset{v}{5}}{6}$ $\frac{\overset{v}{4}}{2}$ $\frac{\overset{v}{5}}{1}$ $\frac{\overset{v}{7}}{2}$ $\overset{v}{4}$

$\overset{v}{2}$ $\overset{v}{-}$ $\frac{\overset{v}{-1}}{1}$ $\frac{7\overset{v}{-6}}{5}$ $\frac{\overset{v}{9}}{4}$ $\frac{26-\overset{v}{1}}{8}$ $\overset{v}{-}$ $\overset{v}{-}$ $\frac{\overset{v}{9}}{3}$ $\overset{v}{5}$

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+19° +20°

16h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-5.9		6	3	1	3	6			9.1-9.6
6.2-6.8		4	2	4	5				9.2-9.8
6.0-6.2		2		2	6				9.3-10.00
				4	3				

16h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
		4	2	3	3	2		4	9.3-9.8
			0		1	4			9.1-9.6
					2				

17h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	7	6	4	7	4	3		5	
	2	3	5	7	3			4	
	1		1	2	1			4	
	0				4			8	
								8	
								2	
								3	

17h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
		4	4	3	6		6		9.2-9.4
		1	4	0	6		2		9.1-9.6
			4	4	2				9.1-9.0
			6	2					
			6						

✓3 ✓9-1/4 ✓21/5 ✓15/5 ✓22-5/7 ✓29/8 ✓9/2 ✓ – ✓34/7 ✓3

– – ✓4/1 ✓7/4 ✓24-3/6 ✓15/7 ✓20/5 – ✓10-2/3 ✓5

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+19° +20°

18h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.1-6.0	1	2	3	5	1	2	5	8	
6.0-6.3		2	9	0	3	0	3	R*	
		6	3	2	5		7	4	
		2	5	5	5				
			3	1					
				5					

18h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
5.5-5.4	1	2	1		1	8	1	6	9.1-9.6
	2		3		5	3	5	4	9.1-9.4
	2				6	4			9.2-9.6
	3								9.1-9.6
	2								

* Dm +19° 3770 } 9.0
Dm +19° 3771 } 9.0 Double in Dm. Combined light 9.17 measured in MP.

19h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-6.4	0	1	4	2	4	2	1	2	9.1-9.2
6.1-5.7	2	2	5		3		1	4	9.2-9.2
6.2-6.0	1	1	5		6			4	
		2	2		3			2	
		6	8		3			4	
		0	3		1				
			0		1				
					1				
					4				

19h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1	1	3	0	1	6	1	2	
	2	4	2	6	7	4	2		
				2	3				
				1	7				
				3	6				
					3				
					2				
					4				

✓5 2-2✓/4 8✓-16/10 31-19✓/12 20✓/7 35-5✓/13 4✓/3 16-1✓/5 18✓-10/7 ✓2

✓1 7-6✓/7 3-4✓/3 3-6✓/4 3-9✓/5 40-5✓/11 21-4✓/5 7-2✓/4 12✓/3 4✓

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+19° +20°

20 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F.
	1	3	2	2	0	4	1	0	9.2-9.0
	5	6	4	5	1	2	3		9.1-9.4
	1	4	4		7	2			9.2-9.2
	1		1		4				
	1				5				
					3				

20 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F.
	6.2-6.0	0	2	2	6	0	4	2	4
	6.2-6.3	1	3	0	1	1			6
		5	1	3	0	3			
		1	6	3	3	9			
				2	2	3			
					5				
					1				

21 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F.
	6	5	2	2	0	3		3	9.2-9.2
	3	~~6~~ 4	7	2	7	4		4	
		5						9	
								3	

21 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F.
	4	8	4	0	2	4	1	6	
	7	4	5	~~12~~ 2	3				
	7		2	3	3				
	5			6	3				
				6	4				

V — 13-5 / 7 — 23-6 / 6 — 16-4 / 6 — 11 / 4 — 19-8 / 8 — 13-2 / 5 — 3-1 / 2 — 19 / 5 — 4 ✓

✓ 2 — 29-1 / 8 — 22-2 / 6 — 16-5 / 8 — 29-6 / 12 — 30-1 / 10 — 8 / 2 — 3 / 2 — 16 / 3 — ✓

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+19° +20°

22 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.4	5	2		0	5	2		4	95-92
5.0-5.6		3						0	
6.2-6.5								3	

22 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.0-6.3	1	6	3	2	1		7	4	
		5	0	0	4				
				1	1				

23 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.8	1	1		1	1				
		4		5	6				
		6		1					
		5		1					

23 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.0	1	4	1	8	1	2		6	
6.0-6.2	5	4		2	3			4	
		2			1				
					6				

✓4 ✓6/2 ✓15-6/6 7-1✓/4 6-1✓/3 ✓5/1 ✓2/1 ✓ — ✓7/3 ✓1

✓3 ✓8-1/4 ✓15-4/4 ✓4/3 ✓13/5 ✓16-1/7 ✓2/1 ✓7/1 ✓14/3 ✓

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+24° +25°

0 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
	2	7	4	5	1	2	6	5		93-98
	3	4	0	6	5			3		
	4		2					1		
								4		
								6		
								2		

0 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
	8	2	4	6	5	5	2			9.1-9.5
		9	2			3				
		1				5				

1 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
6.0-6.1	3	7		8			3			9.1-9.5

1 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
6.0-6.6	1	6	4	0	5		4	8		9.2-9.5
	5	6	7	7	2					
		8	7	6	7					
		11	5		3					
		~~12~~	3							
			0							

1	12/4	18/3	6/3	19/3	6/2	2/1	9/2	19-2/6		2

1	9-5/3	43-~~13~~/+8	28-4/8	19/4	22/5	13/3	6/2	8/1		2

7

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+24° +25°

2 h.

B 65. 7. 7.5. 8. 8.5. 8.8. 8.9. 9. F.

62-59 4 3 3 2 0 2

60-59 0 1

1

2 h.

B 65. 7. 7.5. 8. 8.5. 8.8. 8.9. 9. F.

61-59 1 6 4 1

3 h.

B 65. 7. 7.5. 8. 8.5. 8.8. 8.9. 9. F.

60-65 6 3 6 3 3 4 4 5 91-93

5 2 1 0 1 4

8 3 6 0

7 1 6

6 5

3

3 h.

B 65. 7. 7.5. 8. 8.5. 8.8. 8.9. 9. F.

60-52 1 1 4 2

6 2 0

2

6

3 −11/2 −3/1 2−25/5 3−8/6 12−10/7 6−1/3 5/3 20−2/6 1

2 6−2/3 1−6/2 −4/1 7/3 10/4 − − − −

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1895phae.proj.1724.

+24° +25°

4 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

0 6 0 2 4

4 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

1 0 4 4

3 4 7

3

5 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

60-61 0 2 1 2 7 4 5 91-97

2 4 1 6 5 3 1

1 1 5 3

2 2

3

5 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

5555 4 1 4 5 6 0 5 3 91-93

0

50 1 2 9 1 1 2

2 4

2

3

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

1 0 2-6 5-2 2-2 18 12 12-2 9 1

1 3 4 3 6 2 4 3

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

1 4 2 8-3 9-4 24 5 6 16 1

2 2 4 5 5 3 2 4

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1895phae.proj.1724.

+24° + 25°

6h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	7	1		6	1	1	6	3	9.1-9.6
	4	3			2	1		0	
	3	2			4	4		0	
		1							

6h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-5.8	0	0	1	3	2	2		1	
	2	4	3	3	5			4	
		1	7	2				8	
		1	3	2				2	
		1		4					
				2					
				6					

7h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-5.8	3	7	8	12	1	6		6	
		9	5	4	1	4		5	
		7	2	2	7			2	
			4	3	1			2	
			3		2			4	
			4		2				
					8				

1	3-14	10-20	4-22	5-22	26-3	16	6	20-2	1		
	4	7	6	5	10	5	1	8			

7h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	3	10	2		4	3	3	0	9.1-9.2
	8							4	
								5	
								5	

1	-11	2-10	9-4	10-6	25	8-2	3	29	1		
	3	3	6	4	8	3	1	8			

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+24° +25°

8h.

B	65	7.	75	8.	85	88	89	9.	F.
	0	0	4	6	1	3	1	2	
	4	2	1	5	6				
					2				

8h.

B	65	7.	75	8.	85	88	89	9.	F.
	61-57	2	4	1	1	5	2		93-95
	53-54					4	4		
						1	5		
						3	3		
						2			

9h.

B.	65	7.	75	8.	85	88	89	9.	F.
	0		3	8	3	4	7		
	0								

9h

B	65	7.	75	8.	85	88	89	9.	F.
	58-54	1	1	5	7		4	11	
		1		9	2		2	0	
				3	0				
				4	3				
					5				

−	4/4	−2/2	4-4/3	19/3	12/4	7/2	1/1	2/1	−

3	4/3	−5/2	19-3/5	1/1	32/10	14/4	6/2	11/2	1

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10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	1	1	2	1	4			8	
			1		3			3	
					0				
–	-1/1	12-2/5	2-1/2	9/3	15/4	–	–	31/5	2

10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		4	4	3	1	2	7	7	9.3-10.1
		1	2	4	5		1	5	9.3-9.9
		4		1				2	
				1					

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		1		2	8			6	9.3-9.8
		5		6				8	9.1-9.5
		1						6	
		6							

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		1	5			3	7	5	9.2-9.7
		3	7						9.3-9.6
		9							
–	–	18-4/6	18/4	4-5/4	6/2	5/2	15/3	19/4	4

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+24° +25°

12 h.

B	65	7	75	8	85	88	89	9	F	
57.54	2	2	4		6	5		6	93-10.2	
	2	8						9		
	7									

12 h.

B	65	7	75	8	85	88	89	9	F	
	4	4	2	7	3	5				
	2		2	2	6	2				
			1		8					
			5		3					
					10					

13 h.

B	65	7	75	8	85	88	89	9	F	
		7	6	1	9			2	93-10.0	
			7	3				1	91-9.6	
			4						92-9.7	

13 h.

B	65	7	75	8	85	88	89	9	F	
60.62	1	1	2	4	3		11	6		
		2	6		0					
		5	6		4					
			7		4					

✓ 1 | ✓ 11/3 | ✓ 17/3 | ✓ 17-4/4 | ✓ -4/2 | ✓ 15/2 | ✓ 5/1 | ✓ – | ✓ 16-2/4 | ✓ 4

✓ 1 | ✓ -7/3 | ✓ 12/4 | ✓ 31/8 | ✓ 13/3 | ✓ 41/9 | ✓ 7/2 | ✓ 11/1 | ✓ 6/1 | ✓ –

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+24° +25°

14h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.1-6.2	1	5	5	1	4		4	7	9.1-9.8
	3	4	0		2			6	

14h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-6.6	2	1	1	2	8			10	9.1-9.6
6.1-6.3	5	1	4		8			6	
		3						4	

15h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	2	2	2	0					9.1-9.6
	6	1							9.1-9.6
		7							9.2-9.6

15h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	4	4			8	5	1	5	
		7			5	5	4		
		1			8		2		

1 ✓ 4/2 ✓ 17/4 ✓ 12-3/5 ✓ 2-1/2 ✓ 6/3 ✓ — ✓ 4/1 ✓ 13/2 ✓ 4 ✓

2 ✓ -4/1 ✓ -7/2 ✓ 9-4/5 ✓ 4-1/2 ✓ 23/4 ✓ 26/4 ✓ 6-1/3 ✓ 25/4 ✓ 1

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+24° +25°

16h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
5.3-5.4	2		6	2	2	0	2	5	9.2-9.2
						7		2	9.3-9.6
									9.1-9.7

16h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-6.4	0		1		3			6	9.3-10.0
	4		4		3				9.3-9.4
					4				
					1				

17h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-6.2	3	1	0	3	2		2	1	9.2-9.5
6.0-6.6	11			0	1		12		9.1-9.7
6.0-5.6	2			3			1		9.1-9.6
6.2-5.6									9.2-10.0

17h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
3.0-3.1	4	8	7	7	2	3	10		9.2-9.5
	4		1	5	6				9.1-9.2
			2	2	5				9.3-9.6
			3	1					
				3					
				2					
				1					

5 | 14-4/4 | -1/1 | 6/2 | 5-3/4 | 5/3 | 7/2 | 17/4 | 8/3 | 7

2 | 4/2 | 4-4/2 | 5-8/3 | 5-8/4 | 29-3/11 | 13/3 | 3/1 | 16/2 | 5

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+24° +25°

18 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.0-6.5	2	0	5	3	3	2	1	7	9.2-9.2	
			6	3	2	1	2	6	9.2-9.5	
			6	7	1			9		
			0	1				4		
			0	3				4		
								4		
								5		

18 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
			0	2	3			5	9.1-9.6	
			3	0	0			4	9.2-9.5	
			1					0	9.1-9.1	
								7	9.2-9.8	
								2		

19 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.1-6.2	2		2	3	1	0	1	2	9.1-9.5	
6.2-5.7	4		2	4	0			2	9.3-9.6	
	2		2	1	1			1		
			1	2	3			2		
			7	3	2			3		
								2		
								3		
								2		

19 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.2-6.1	3	2	1	2	0	1	2	3	9.1-9.3	
	5	3	2	0	2	1	1	2		
	3	6	1	4	2		3	0		
			0	1						
			0	3						
				5						

3	4-6	0	7-24	6-24	8-5	24	3-1	54-2	4
	4	1	10	10	8	3	3	15	

1	11	9-2	4-4	11-6	3-4	2	6	23	5
	3	3	8	8	5	2	3	8	

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+24° +25°

20 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	.
60-54		6	0	3	3	2	3			
		7	3	3						
			6							
			2							
			3							

20 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	.
52-49		8	1	1	0	3	3	2	92-92	
		4	1	7	2	0				
		5	2	3		5				
		2	1	3		3				
			4	1						
			6	5						
			5	4						

21 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	.
41-43	4	4	0	2	3		2	3		
	5	2	4		1		1	6		
	2		2					5		
	4		4					4		
								5		

21 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	.
62-59	4	1	5	3	0			4		
				0	3			4		
					0			2		

✓ 2 | 9-6 / 4 ✓ | -6 / 2 ✓ | 4-12 / 5 ✓ | 2-7 / 3 ✓ | 13-8 / 7 ✓ | 6 / 2 ✓ | 5 / 3 ✓ | 26 / 6 ✓ –

✓ 2 | ✓ 4 / 1 | 1-8 / 2 ✓ | 7-10 / 5 ✓ | 4-19 / 9 ✓ | 7-19 / 10 ✓ | -5 / 2 ✓ | 6-5 / 4 ✓ | 10-2 / 4 ✓ 1

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+24° +25°

22 h.

B.	65.	7.	75.	8.	85.	88.	89.	9.	F.
	3	8	2	0	0				
		0		2	3				
					4				
					7				
					1				

22 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.
	4	1	1	7	2			5	9.1-9.3
	1	5	3	5	1				9.2-10.1
			2		0				
					1				
					2				
					10				
					2				
					4				

23 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.
	7	2		6	6	4	2	4	9.1-9.4
		1		1	4			5	9.1-8.9
		1		3	3			1	9.1-8.9
		7		4	5			2	
		7							

23 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.
62.6.7	6		9	4	2	2		3	
	0		7	2	0			0	
	5		3	3	5				
					2				

$\frac{-10}{2}$ $\frac{16-10}{7}$ $\frac{2}{1}$ $\frac{7-9}{6}$ $\frac{33}{9}$ $\frac{4}{1}$ $\frac{2}{1}$ $\frac{12}{4}$ 3

1 $\frac{16}{5}$ $\frac{6}{2}$ $\frac{24-1}{6}$ $\frac{21}{5}$ $\frac{25-6}{12}$ $\frac{2}{1}$ $\frac{8}{3}$ 2

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+29° +30°

0 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

0 1 1 5 4

2 1 1 3 3

5

0 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

33.37 2 1 1 0 3 5 4

4 3 2 2 1

0 1

4

1 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

0 3 1 1 3 1 9.2-9.4

5 9.2-9.4

6

1 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

1 3 0 3 3 9.3-9.6

2 2 2 3

2 2

1 1

5

Dm +29° 261 Neb. Magn. R in M. P.

✓ — ✓ 0/1 ✓ 3/1 ✓ 2-12/5 ✓ 1-4/2 ✓ 3/3 ✓ 8/2 ✓ 3/1 ✓ 13/4 ✓ 2 ✓

✓ 1 ✓ 2-4/2 ✓ 7/5 ✓ — ✓ 10-14/9 ✓ 2-6/7 ✓ 3/1 ✓ 8-1/3 ✓ 10/3 ✓ 1

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+29° +30°

2 h.

B. 6.5 . 7. 7.5 . 8. .85 .88 .89 . 9. F.
2 3 1 0 2
R 1 1 1
3 4 1
4 3 0
2
1

2 h.

B. 6.5 . 7. 7.5 . 8. .85 .88 .89 . 9. F.
2 9.2-9.3 6.1-6.3 1 3 0 0 3 1 4 3 9.1-9.1
9.1-9.7 0 5 0 1 0
1 3 10 1
2

3 h.

B. 6.5 . 7. 7.5 . 8. .85 .88 .89 . 9. F.
3 0 4
4 2
5
9.3-10.3 5.8.55 0
2
3

3 h.

B. 6.5 . 7. 7.5 . 8. .85 .88 .89 . 9. F.
0 2
2 3 12-6 9-5 3-4 2 -6 3 5-1 5 3-1 1 7 3 1
1 2 7 6 6 1 4 2 4 4 3 1 4 1

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+29° +30°

4h

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F
	5	3	2	3	2		8	5	93-97
	9	5		6					92-95
				1					

4h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F
6.0-6.3	1	9	2		2	3		5	
		0			8			3	
		7			6			5	
		6							

5h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F
6.2-6.1	2	0	3	1	2	1		1	91-97
	2	2	4	1	0				
				0					
	0			1	0				
	3			0	0				

5h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F
6.2-5.8		3	1	1	1	4	3		91-95
		0	3	1		2	1		91-93
		1	0	3		1	4		
			3	3			6		
				1					

✓ 1	✓ 18/4	✓ 13/6	✓ 5-4/3	✓ 9-3/7	✓ 4/5	✓ 1/1	✓ 8/1	✓ 5-1/2	✓ 3	✓ 2	✓ -1/1	✓ 22/4	✓ 2-4/4	✓ -7/4	✓ 20-5/8	✓ 3-1/2	✓ 7/3	✓ 27/7	✓ 2

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+29. +30°

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.2-5.6	0	2	5	4	5	1		5	93-9.2	
6.0-5.7	4	3	2	3	2	5		9		
		2	0	0	0			2		
			1	1	2			2		
					1			0		
								0		

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		0	3	1	7	6	1		9.2-9.4	
		~~21~~		1	1					
				2	2					
				3	1					
				1	3					
				3						

7h.

B.	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		4	4		1			2	92-9.7	
			2		0			3		
			6		2			3		
								3		

7h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		1	1		1		1	5		
		2	4		2		2	8		
					2		2	4		
					5		3			

$2^{\checkmark}$ $\frac{-4^{\checkmark}}{2}$ $\frac{2-9^{\checkmark}}{4}$ $\frac{5-15^{\checkmark}}{7}$ $\frac{5-3^{\checkmark}}{4}$ $\frac{10-3^{\checkmark}}{8}$ $\frac{6^{\checkmark}}{2}$ $-^{\checkmark}$ $\frac{27-2^{\checkmark}}{10}$ $2^{\checkmark}$

$-^{\checkmark}$ $-^{\checkmark}$ $\frac{2-2^{\checkmark}}{4}$ $\frac{7-1^{\checkmark}}{3}$ $\frac{11^{\checkmark}}{6}$ $\frac{16-8^{\checkmark}}{9}$ $\frac{6^{\checkmark}}{1}$ $\frac{9^{\checkmark}}{5}$ $\frac{17^{\checkmark}}{3}$ $1^{\checkmark}$

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+29° +30°

8 h.

B .65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .
1 4 3 2 4 5
0 3 0 4
3 6
4
1

8 h.

B .65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .
56 55 3 1 1 4 3 3 4
1
3

9 h.

B .65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .
7 4 3 6 9.1-9.8
5 6 8
1 1 3

9 h.

B .65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .
6 1 5 4 5
5 2 1
6

✓ −1/1 ✓ −4/2 23−4/8 18−1/6 7/2 ✓ − 26/5 1 ✓

✓ −3/1 6−1/2 −1/1 10/3 20/6 ✓ − 8/3 9/2 ✓ −

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+29° +30°

10 h.

B 65. 7. 7.5. 8. 8.5 .88 .89. 9. F.
2 2 4 3 3
3 1 3

10 h.

B 65. 7. 7.5. 8. 8.5 .88 .89. 9. F.
60-S.4 0 0 3 0 8 4
2 4 3 2
5

11 h.

B 65. 7. 7.5. 8. 8.5 .88 .89. 9. F.
2 3 5 7
4 8
2
5

11 h.

B 65. 7. 7.5. 8. 8.5 .88 .89. 9. F.
4 0 5 5 6 3 5
5 1 6 5
7

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12h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
2 6 6 3 8 7 5
3 2

12h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
3 2 7 5
2 10 8

13h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
6.0-5.9 1 3 6 6 9.2.10.3
4 7 9.1-9.5

13h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
5 1 5 9.1-9.3
2

1 -2/1 6-3/2 8-1/3 3/1 15/3 - 13/2 18/3 2

- - 3/1 4/2 22/3 3/2 - 13/2 5/1 1

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+29° +30°

14h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
6.2-5.9		1		1	0	6	5	3	93-95
		4		0				3	92-98
								10	92-97

14h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	0	0		2	4	6	4	8	
				5	6		3		
					6				

15h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	5	2	2	5		6	1	92-97	60-84
	2			2		5			

15h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	2		1	5	4	4			
			1	2	3				
			1						

1	–	11-1/4	-2/1	3/3	7/3	6/1	16/3	17/4	4	1	2/2	0/1	3/3	14/4	19-4/5	10/2	7/2	8/1	∓ –

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+29° +30°

16h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
		3	0	1	1			5	9.3-9.9
			3	6	4			1	9.3-10.0
			1	3	3			7	
			1						
			0						
			3						

16h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	6.1-6.0		2	4	5	2	4	0	
			2		2	5			
						6			

17h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	6.0-5.7	1	4	1	1	0	4	2	
				3	4	4		2	
					4				
					1				

17h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
			1	0	4	1	1	1	9.2-9.6
			2	6	8	4	1		9.3-9.7

✓ 1 ✓ 1/1 ✓ 7/2 ✓ 7-5/8 ✓ 5-15/7 ✓ 8-4/5 ✓ -4/1 ✓ 2-2/2 ✓ 13/3 ✓ 2

✓ 1 ✓ 1-2/2 ✓ -10/4 ✓ 4-12/3 ✓ 1-11/4 ✓ 13-2/5 ✓ - ✓ 4/1 ✓ 1/2 ✓ 2

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18 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.1-5.7	3	2	6	0	3	5	1	0	9.1-9.0
		1	1	1	3			0	
		3	2		0			5	
		2	3		2			2	
		2	1		2			1	
					1				

18 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	2	4	1	7	2	0	0	1	9.2-9.6
	1	1	5	1	1	3		2	
		6		3	2	1			
		4		1	3	2			
				7					

19 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	0	0	3	3	1	1		0	9.3-9.5
		5	2	5	2	3		1	9.4-9.6
		5	2	1	5	1		1	9.2-9.5
		3	7					2	9.1-9.5
									9.2-9.3
									9.3-9.3

Dm +29° 3538 Neb. Magn. R_z in M.P.

19 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-6.0	5	1	1	3	2	1	0	1	9.2-9.3
	2	3	3	1	1	2	0	2	
		2	1	0	1	3	2		
		1	3	2	1	1			
		3	2	2	1	4			
		2	3	3	3				
		1	2	2	3				
		4		4	2				
		2		2					
				7					
				1					

1 | −3/2 | 6-17/9 | 1-26/9 | 2-8/5 | 3-16/9 | −10/4 | 1/1 | 9-3/9 | 7

1 | 9-1/4 | 8-26/13 | 7-14/9 | 22-24/16 | 11-11/12 | 13-4/9 | 2/4 | 6/4 | 2

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20h

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F	
4.2-4.1	6	1	0	2	3	1	3	5		9.1-9.3
	4	2	3	3	1	3	3	4		
	2		2	4	~~2~~ 0		1	3		
	0		3	1	2		4	3		
				0	5			2		
					7					
					2					

20h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F	
2	1	2	3	F	1	4	3			9.1-8.8
	3	6	2	4	3	4	1			9.1-9.4
	2	0	2	1			2			
	2	1	6	4			3			
		1					3			
		3								

21h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F	
6.1-5.6	1	0	4	2	0	2	5	1		9.3-9.7
	2	0	3	2	1	4		5		
			5	0	1			0		
			3	2	0			3		
			4		1			5		
					0					

21h.

B	6.5	.7	7.5	.8	.85	.88	.89	.9	F	
2	5	2	2	3	3	1	4			9.2-R
	2	5	1	5	6		5			
			4	2	1		6			
			3	0	4		3			
			1	5						
			2	4						

✓ 2 ✓ 2-13 / 6 ✓ -3 / 4 ✓ 19-8 / 9 ✓ 11-5 / 9 ✓ 19-4 / 13 ✓ 6-4 / 4 ✓ 13-3 / 5 ✓ 31 / 10 ✓ 2

✓ — ✓ 2-2 / 2 ✓ 10-5 / 6 ✓ 11-9 / 8 ✓ 19-7 / 10 ✓ 24-4 / 9 ✓ 14-4 / 6 ✓ 1-8 / 3 ✓ 19-11 / 9 ✓ 3

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+29° +30°

22 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F
	0	2	1	5	4	4	6		
		5	1	3	3	5			
		7	3		5	0			
					6				
					1				
					3				
					4				
					4				
					2				

22 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
	9	4	5	2	4	5	6	2	9.2-10.0	
	9	6		1	3	2	5	1		
	2	5		3	2	6		2		
	8	10		0				5		
	3			5				5		

23 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
6.1-5.9		0	2	3	5	3	0	4	9.1-9.3	
		5	1	3	5	1				
			1	2	1	1				
			6							
			4							
			0							
			2							

23 h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
		5	1	0		4	0	1	9.3-9.7	
			3	3		3		3		
			3					4		
			8					6		
			8					3		
								8		

1 ✓ 0/1 ✓ 7-7/4 ✓ 7-5/5 ✓ 18-7/9 ✓ 37-5/12 ✓ 17-1/6 ✓ 8/4 ✓ 4/1 ✓ 1 ✓

– ✓ 31/5 ✓ 26-4/5 ✓ 14-14/6 ✓ 7-7/7 ✓ 9/3 ✓ 17-3/5 ✓ 11/3 ✓ 40/11 ✓ 2

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+34° +35°

0 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	0	9	8	2	4	0	2	2	
		0	1	7	3			3	
			4		3			2	
			0		7			6	
			5					8	

0 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6263		2	0	1	2	1	7	2	
			6	1	3	4	3		
				4	4	2			

1 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
22-27	2	1	6	0	0	6	3	2	93-96	
			2	1		4	1			
			2	1						
				3						
				2						
				3						
				2						

1 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	1		5	2	4	4	4	5	93-10.0	
	4		1		3	4		4	9.1-9.4	
					2	7			9.2-96	
									9.1-9.4	
									9.1-96	

1 | -2/2 | 10/3 | 27+1/8 | 18-3/9 | 17/5 | 10/3 | 5-1/3 | 23/6 | 1

1 | 5/2 | 2/1 | 11-1/4 | 8/4 | 18/6 | 22/6 | 14/3 | 11/3 | 5

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+34° +35°

2 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	2	1	2	5	1	3	3	6	
		1	1	2	5	1	4		
		3		4	4	8			
		6			10				
		4			5				

2 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	4	7	3	7		5	4		9.2-9.8
		2	3	4			2	1	9.2-9.3
		4		8				3	9.2-9.7
				9					

3 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-5.7	0	4	11	4	6	7		2	9.2-9.5
6.2-5.4			0	4	1	4		2	
				5				7	
				7				6	
				9				2	
				5					
				5					
				4					

3 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
		2	7	6	5			4	
		1		8	6			10	
		12		2					
		8		3					

2 $\frac{-2}{2}$ $\frac{14-5}{6}$ $\frac{13-1}{4}$ $\frac{45-9}{11}$ $\frac{31-1}{7}$ $\frac{23}{5}$ $\frac{7}{2}$ $\frac{25}{6}$ 1 – – $\frac{-4}{1}$ $\frac{33-3}{7}$ $\frac{13}{3}$ $\frac{47}{8}$ $\frac{16}{3}$ $\frac{7}{3}$ $\frac{18}{4}$ 3

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+34° +35°

4h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
		6	4	5	7			2	
		6	3					7	
		7	11					6	
		7							

4h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
		9	10	4	5			9	9.1-9.5
		2		3					
				2					

5h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-5.2	9	6	1	9	3		1	5	9.2-9.3
	8	0		3	5		2	0	
	1	8		1	2		1	4	
	1						0	4	

5h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.1-6.1	3	1	1	3	8		2	4	9.2-9.6
	1		5	0	5		2	5	9.1-9.4
	1		3	1	6		5	2	9.3-9.3
				3	1			5	9.2-9.3
					3				9.1-9.3
					1				
					4				
					3				
					1				
					3				

✓ 1 | 2-17 / 4 ✓ | 26-14 / 7 ✓ | 19 / 4 ✓ | 8-10 / 4 ✓ | 17 / 4 ✓ | – | 4 / 4 ✓ | 24-4 / 7 ✓ | 1 ✓

✓ 1 | 11-5 / 5 ✓ | -1 / 1 ✓ | 16-3 / 4 ✓ | 6-10 / 7 ✓ | 31-9 / 11 ✓ | – | 9 / 3 ✓ | 25 / 5 ✓ | 6 ✓

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6 hr.

B	6.5	.7	7.5	.8	.85	.88	.89	9.	F.
	1	3	1	1	0	1	2	1	9.2-9.5
		3			2			6	9.2-9.6
					4			4	9.1-9.0
								2	

6 hr.

B	6.5	.7	7.5	.8	.85	.88	.89	9.	F.
	1	4	5	6	4	3			9.3-9.8
	4	5		2	2	3			9.1-8.9
	3	2			2	4			9.1-9.1
					5				
					3				

7 hr.

B	6.5	.7	7.5	.8	.85	.88	.89	9.	F.
5.0-5.1	6	1	1	1	2	1	4		9.1-9.2
			0	2	4				

7 hr.

B	6.5	.7	7.5	.8	.85	.88	.89	9.	F.
	5	2	4	5	0	5	1	2	
	2	0	0		2			2	
		7			5			7	
					6				
					8				

1 ✓ | −7/2 ✓ | 7/3 ✓ | 1-1/3 ✓ | 1-3/3 ✓ | 12/5 ✓ | 2/2 ✓ | 6/2 ✓ | 11-2/4 ✓ | 4 ✓

− ✓ | 5-10/5 ✓ | 16-4/12 ✓ | 4-5/3 ✓ | 13/3 ✓ | 27-10/10 ✓ | 15/4 ✓ | 1/1 ✓ | 11/3 ✓ | 3 ✓

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8 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	7	4	2	1	2	8		6	
			1	8	7			5	
					9			4	
					6				

8 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	60.62	1	3	2	3	5	8	6	
				2	2	5	3		
					0	6			
					6	6			
						8			

9 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	7	2		1	4				92-7
	9			1					
				3					
				3					

9 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	31-32	3	2	5	7	4	3	10	5	92-96
		10		4		1			2	93-98
		5		1		8				92-96
				7		5				
				3						
				5						

✓	9-14	✓ 6	✓ 3	15-2	✓ 28	✓ 8	~	✓ 15	✓ 1	✓ 2	1 7-18	✓ 5	✓ 22-7	✓ 18	✓ 47-1	✓ 14	✓ 10	✓ 13	✓ 3
	3	2	2	6	5	1		3		4		2	8	5	9	3	1	3	

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10 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.0-5.7	1	II	3		2		2	9.1-9.4	
4.0-3.9			0		2		4		
			1						

10 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
			5		8	6		7	9.1-9.8
			2		4				9.1-9.4

11 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-6.1	1	1	3						
	3	3	1						
		3							

11 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
5.1-5.3					4	1	1		
					2	4	7		
					2				
					4				

✓ 3 ✓ 2-3/3 ✓ 3-15/4 ✓ 4-4/5 ✓ 2-2/2 ✓ ✓ 6/2 ✓ 1 ✓ ✓ 1 ✓ - ✓ 7/2 ✓ ✓ 20-4/6 ✓ 11/3 ✓ 8/2 ✓ 7/1 ✓ 2

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12 h.

B	6.5	7	7.5	8	8.5	.88	.89	9	F
	4	5		1	0				
	2			3	1				

12 h.

B	6.5	7	7.5	8	8.5	.88	.89	9	F	
	1	3			5	5		3	9.2-9.4	
	4				4				9.1-9.4	
	6				4					
					2					

13 h.

B	6.5	7	7.5	8	8.5	.88	.89	9	F	
6.2-6.0	4		5	1				2	9.3-9.1	5.7-4.9
	10									

13 h.

B	6.5	7	7.5	8	8.5	.88	.89	9	F	
	6	1	0	4	4	1		5	9.3-9.7	
	1	3	3	3	1	2		3		
	5	0			3					
					0					
					1					

✓ 1 ✓ 14-6/4 ✓ 5/1 ✓ 5/1 ✓ 3-2/3 ✓ 1/2 ✓ ✓ ✓ 2/1 ✓ 1 ✓ ✓ 1 ✓ 12-11/36 ✓ 14-1/6 ✓ 6/3 ✓ 7/2 ✓ 19-5/9 ✓ 8/3 ✓ ✓ 11/3 ✓ 3

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14h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		1	6	1		6	6		9.3-9.8	
				1			6			
				0						

14h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		3	6	5	5	4	5	4	9.1-9.7	
		7			2				9.1-9.4	

15h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.0-6.7		5	0	3	3	6			9.3-9.6	
		0	3	0		0			9.3-9.9	
									9.3-9.9	
									9.3-9.8	

15h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		5		0				0	9.2-9.4	
				2					9.3-10.0	

1 | −5/2 | 1-3/3 | 9/3 | 5/4 | 6/2 | 6/1 | 12/2 | 5

− | −5/1 | 3-7/2 | 6/1 | 7/3 | 7/2 | −4/1 | 5/1 | 4/2 | 4

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16h.

B	6.5	7.	7.5	8.	8.5	.88	.89	9.	F.
6.0-5.9	5	3	3	2	1				9.2-9.5
6.2-6.1			2	1	0				9.1-9.1
			5						9.4-8.6
			2						9.3-9.5

16h.

B	6.5	7.	7.5	8.	8.5	.88	.89	9.	F.
	3	2		5	1		1		9.2-9.7
				1	1				9.2-9.3
				1	2				9.1-9.2
									9.2-10.0

17h.

B	6.5	7.	7.5	8.	8.5	.88	.89	9.	F.
6.1-6.0	1	1	5	2	5	1	4	5	9.1-9.2
	1	2	2	2	3			2	9.2-9.3
				4	2			3	9.2-9.4
				2					9.1-9.6
				3					9.1-9.6

17h.

B	6.5	7.	7.5	8.	8.5	.88	.89	9.	F.
	6	3	1	5	1		5	6	9.1-9.4
		1	2	1	3			4	
		2	5		6				

3 | 6-1/3 | -6/3 | 14-5/6 | 8-8/7 | 10-1/5 | 1/1 | 4/1 | 10/3 | 9 | — | 9/2 | 1-7/4 | 8/3 | 7-6/5 | 12-2/6 | — | 6/2 | 10/2 | 5

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18 h.

B	6.5	7.	7.5	8	8.5	8.8	8.9	9.	F.	
	5	9	1	2	1	3		3	9.1-9.6	
		1	2	8	6			6	9.2-9.3	
				1	2			6		
				2	1			3		
					1					
					3					

18 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
		2	4		3	4	5	0	9.1-9.2	
		3	1		6	2	6		9.2-9.3	
		1			1					
					4					
					3					
					3					

19 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	1	1	0	1	3	0	1	1	9.2-9.5	
	2	4	0		1	2	2	1	9.2-9.2	
	1	1	3		2	1	1	2	9.1-9.2	
	2		4		1		1	1	9.2-9.2	
	0				7		1	1		
	3				1					
					3					
					1					
					1					
					5					
					4					

19 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	~~12~~ 2	2	1	1	1	3	4	2	9.2-9.4	
	4	1	5	1	4	3	1	2	9.2-9.2	
	4		6	1	4		2		9.3-9.5	
				0	3		5			
				3	3					
					0					
					1					
					4					

✓ — 4-10 ✓ / 7 — 2-14 ✓ / 5 — -10 ✓ / 6 — 14 ✓ / 5 — 18-26 ✓ / 18 — 5-1 ✓ / 4 — 3-3 ✓ / 5 — 15-8 9 ✓ / 9 — 6 ✓

✓ — 2-8 ✓ / 3 — 5-4 ✓ / 5 — 6-11 ✓ / 5 — 3-3 ✓ / 5 — 24-16 ✓ / 14 — 12 ✓ / 4 — 18-5 ✓ / 6 — 4 ✓ / 3 — 5 ✓

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20 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	3	6	5	2	4	4	1	3	9.1-9.2	62-59
		3	0	2	2	5		3	9.1-9.1	62-60
		2	3	1	3	1		2		
			9	1	3			3		
			2	1	0			0		
					0			1		
					1					
					0					

20 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	3	3	5	2	2	4	2	2	9.1-8.8	
			6	3	2		1	2		
			3		3			1		
			2		0			3		
			2		1			2		
			0		1			0		
			1							
			8							

21 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
62-63	8	2	1	2	1		3	6		
	6	2		3	1		2	2		
		6		3	4			3		
								6		

21 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	1	1	3	2	0	2	1	2	9.2-9.5	
	1	4		1	7	2		4		
	0	4		2						
	4			3						

1	17 / 3	10-11 / 6	6-14 / 6	11-4 / 8	7-12 / 11	5-5 / 3	6 / 3	17-12 / 10	2

2	8-1 / 5	11-1 / 4	3-27 / 9	5-8 / 6	11-5 / 89	8 / 3	2-2 / 3	11-5 / 8	2

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22h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1	0	0	6	6	3		6	9.1-9.6
	0	6	1	1	4			4	
	1	1		0	5			5	
		0			3			5	
					4				
					4				

22h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1	7	4	4	3		3	7	9.2-9.5
	6		3	3	7				9.3-9.7
			3	6	3				9.2-9.5
									9.1-9.5

23h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	0	8	4	~~1~~ 3	10	1	1	2	9.4-9.9
	~~1~~ 4	12	5	2	5	0	5	1	
	0	2		1	0		4		
	1								
	5								
	8								

23h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.63	1	6	0	1	1			4	9.3-9.7
	10	4		2	1			4	
	4	1		2	2				
		2			8				
		2							
		3							

✓	12-8 / 9	26-3 / 7	10 / 4	12-1 / 6	41 / 9	3-1 / 3	10 / 3	22-1 / 6	2

✓	21-1 / 5	25 / 7	10 / 4	17-1 / 6	24-1 / 7	–	3 / 1	15 / 3	5
1										

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0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	2	2	4	7	3		3		9.1-9.7	
	2	1	6		4		4			
	3	4			3					
	5	3								
	5									

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	7	7	5	5	1	2	5	3	9.1-9.5	
		2	5				2			
		1	3							
		5	2							
			5							
			1							

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1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
54-50	1	1	7	7	6	5	3	6	9.2-9.6	
	2	1	11	3	6	3	6	3	9.3-9.2	
			0	2	2	0			9.2-9.6	
					2					
					1					

1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
60-58	9	4	4	4	8			8	9.2-9.8	
	5	3	8	2	5			7	9.1-9.1	
	3	8	3		4			0		
	5	7			8					
	0	2			10					
		7								

1	7-3	6-6	28	19	27	8	16	9	4	
	7	6	5	4	8	3	4	2		

1	7	29-8	47-5	20	6-1	35-2	7	18	3	
	1	9	12	4	3	6	2	4		

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2 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	6	1	3	0	1	6	5	7	91-93
		5	5	2	7		2	3	
		3	8	3	9			9	
		1		2					
		1		4					
		5							
		5							

2 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		4	2	4	5	7		5	91-98
		3	2	1	6			5	
		2	0	3	7			2	
			2		3			3	
					8			6	
								3	
								5	

3 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		3	4	1	1	4		5	
		6	2	1		0			
		6	2	3					
		2	4						
		5	0						
		2	4						

✓ 6/1 33-12/13 19-13/9 7-9/8 18/4 10/3 4/2 24/4 1 ✓

3 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		1	3	3	2	3	7	5	
		1	5	4	1	4			
			1		6	4			
			3		5	5			
						5			

✓ 1-10/5 6-6/4 11-2/6 21-1/7 50/10 14/2 34/8 1 ✓

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4h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	3	6	5	4	0	1	6	4	9.1-9.5
	2	1	1	1	6	4	4	0	
			0	5					
			3	2					
				2					
				2					
				0					
				5					
				1					

4h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
4.8-4.9	2		1	1	5	7		7	
6.2-6.2	3			1	5	1		8	
					2			3	
					3			6	
								3	
								6	

5h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
4.9-4.8	2	3	1	2	4	2	0	2	9.1-9.4
	4		1	5	4	4	1	6	9.1-9.3
			1	1			3		
			1	2					
			7	3					
			3						

5h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	4	2	3	4	7	4	6	5	
	5		2	4	3		6	8	
	1		7		5				
			2		0				

1	6-5	6-4	14-9	34-1	8-6	9-2	14	12	3	
	4	3	10	14	4	4	5	4		

2	2-13	2	8-7	9-1	30	12	12	46	–	
	5	1	5	4	8	3	2	8		

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6 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	8	5	6	1	0	9	6	7	
	1	2	3	1	1	6	5	3	
		5	5	1	5		8	R	
		4	3	6	7		10		
		0	2	7	2		7		
		2		8	8				
		0		9					
				6					

6 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
6.1-5.3	5	2	1	3	5	2	6		
	10	1	3	7	9	6	7		
		3		4		6	9		
		5		5		3	9		
		2		5			6		
		5		7					
		8		5					
		1		3					
				9					
				1					
				10					

7 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.	
	1	1	3	1	4		1	3	9.1-9.2	
		0	3				2		9.1-9.0	
		2	1							

7 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.	
	2	4	8	6	3	4			9.1-9.0	
	1	2	4	2	3	5			9.3-9.9	
	4			1						
				1						
				2						

✓ — 1-9/3 ✓ 16-5/10 ✓ 19-7/8 ✓ 37-3/9 ✓ 27/7 ✓ 15/2 ✓ 37-2/7 ✓ 13/3 ✓ 2

✓ ✓ — 19-3/5 ✓ 27-6/10 ✓ 12-4/4 ✓ 70-1/16 ✓ 17-3/4 ✓ 26/6 ✓ 37/5 ✓ 2

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8 h.

B	6.5	7.	75	8	85	88	89	9.	F.
	0	4	2	6	4			3	
			5	1				12	
			0						

8 h.

B	6.5	7.	75	8	85	88	89	9.	F.
	4	3	4	3	4	1		0	
		1	3			7	3		
			2				3		
			1						
			6						

9 h.

B	6.5	7.	75	8	85	88	89	9.	F.
		1	5	5	3	4		7	92-94
			3		4				

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
–	0/1	4-1/2	15/5	11-1/3	11/3	4/1	–	22/3	1

9 h.

B	6.5	7.	75	8	85	88	89	9.	F.
		3	4	3	7			4	
		2	1					3	
		1	1						
		1	3						
		4							

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
–	-4/1	9-6/7	20-5/9	6/2	18/3	7/3	–	7/3	–

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10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
6.2-5.9		1	3	11		6		5	
4.9-4.9		7	1	3					
6.2-6.5			6						

10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		1	2	3		9	4	11	9.1-9.5
				7					
				10					
				7					
				1					

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	6	4		2			~~12~~ 8	1	9.2-9.8
				1					
				10					
				9					

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
5.0-5.2	2			3				6	9.2-9.8
				1					

3   6/1   12/3   9-1/3   33-3/6   –   6/1   8/1   6/2   1   1   2/1   1/1   -2/1   20-12/7   –   9/1   4/1   17/2   2

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12 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
			11	1	7			5	9.2-10.1	
			13	3	5					

12 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.1-6.0	7	5	1	4	7			7	9.1-9.5	
		1			7			6		
		4						7		
		1								
		2								
		0								
		6								
		5								

13 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.2-6.0	0	1	5		4		11	5	9.3-10.4	
6.2-6.3	1	3			8		11	9		
6.0-6.2		6			5					
					6					
					5					
					4					

13 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	9	2	6	11	7	4	8		9.1-9.8	
		7	6	8					9.1-9.7	
		0								

✓3 ✓1/2 ✓10/3 ✓24-5/3 ✓4/2 ✓44/8 ✓ — ✓22/2 ✓19/3 ✓2

✓1 ✓7/1 ✓32-1/9 ✓7-3/4 ✓16/3 ✓33/4 ✓7/1 ✓4/1 ✓28/4 ✓3

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14h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
5.5-5.6	1	1	1	9		3		2	9.2-9.9	
			8	2					9.3-10.1	
			1						9.3-10.1	
			2						9.2-9.5	
			3							

14h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
	1		5	3	6		0	5	9.1-9.5	
	3		2	0	2			6		
			4		6					
			5							
			2							

15h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
	0		4	7	1	2	5	1		
	5		4		6	2				
			2							

15h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
5.5-5.8	6	5	2	0				5	9.2-9.9	
6.2-6.5	1		1	2					9.3-9.8	
	3		1	R					9.3-9.7	
			3							
			3							

1 ✓ 6/3 ✓ -7/1 ✓ 23-2/8 ✓ 18/3 ✓ 7/2 ✓ 7/3 ✓ 5/1 ✓ 3/2 ✓ 4 ✓

2 ✓ 4/2 ✓ 10/3 ✓ 23/6 ✓ 10-3/7 ✓ 16/5 ✓ - 0/1 ✓ 16/3 ✓ 4 ✓

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16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		0	7	5	6	5		9	9.2-9.4
				1		1			9.1-10.0
				3					9.2-9.5
				1					9.2-9.8
									9.4-10.1

16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	5.5-5.6	5	8	4	12			3	9.2-9.3
		1	4		4				9.3-10.0
		2							9.3-9.8
									9.4-9.6

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	1	4	8	8	10	1	2	10	9.2-10.1
		12	7		3	9			
			4		2	8			
			4						

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	6.2-6.4	1	4	4	6	2	10	5	7	9.2-10.0
	5.2-5.8	5	3	5		1			6	9.1-9.4
	6.2-6.1			7					4	
	5.0-5.1			1						

✓	✓ 1/1	✓ 16/3	✓ 30/5	✓ 18/5	✓ 21/4	✓ 24/5	✓ 2/1	✓ 9/2	✓ 6

✓ 5	✓ -1/1	✓ 17/5	✓ 19/4	✓ 16-7/5	✓ 18/3	✓ 10-1/2	✓ 5/1	✓ 20/4	✓ 6

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18 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
62-63	5	8	6	7	5	9	6	6	93-96	
	1	1	8	6	4	0	7	4	91-95	
	5	6	3	7	1	5	5	3		
	3	6	7	3			5			
	8	7	5	0						

18 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
62-61	1	0	3	7	0	6	4	3		
	4	0	3	1	2	6	0	5		
	6	7	3		5		4			
	3	1	6		0		2			
		1			9					
		1			1					

19 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
62-62	5	0	2	3	6	2	7	5	92-86	
58-55	8	0	7	1	3		1	3		
	4	1	2	2	2		2			
		0	1	0	1		0			
		3		1	4		3			
		1		2	2		1			
				4						

19 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	1	1	2	0	2	4	4	3	91-90	
	1	1	0		4	2	0	0		
	0	3	4		1			0		
	1	0	3		1			3		
		1			3					
					1					

✓ 3 ✓ 34-5 / 8 ✓ 28-5 / 11 ✓ 38-3 / 9 ✓ 33-3 / 12 ✓ 28 / 9 ✓ 16 / 4 ✓ 37 / 10 ✓ 21 / 5 ✓ 3

✓ 1 ✓ 12-5 / 8 ✓ 12-4 / 11 ✓ 17-7 / 8 ✓ 7-1 / 3 ✓ 19-10 / 12 ✓ 18 / 4 ✓ 14 / 6 ✓ 14 / 6 ✓ 1

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20h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
5455		2	0	4	0	0	3	0	
		4	8	1	2	0	4	1	
		3	1	2	3		0	1	
		2	7	3	3			9	
		2	2		1				
			1		2				
			1		0				
					1				
					4				
					4				
					7				
					1				
					3				
					2				
					6				

20h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6059	5	1	1	4	3	2	3	1	9.4-9.2
	1	0	2	1	3		3	4	9.4-9.6
	2	2	3	4	0		1	1	
		4	4	2	1		1	5	
		4	1	2	1			4	
		~~13~~	1	0	2				
		2	2		2				
		1	3		3				
					7				
					1				
					3				
					2				
					6				

21h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1	1	3	1	4		1	4	9.1-9.3
		4	3	2	6			7	9.1-9.5
				5	3			4	
				8	5			7	
				1	3				
				3					

21h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6266	2	1	2	2	5	4		3	9.3. R
	8		2	2	4	3		2	
	2		4	1	4	3		~~15~~ 5	
			4					6	
			1						

✓ 1 | ✓ 1/1 | ✓ 9-9/7 | ✓ 5-21/9 | ✓ 24-6/10 | ✓ 40-1/15 | ✓ 0/2 | ✓ 3-5/4 | ✓ 32-1/8 | ✓ 2 | ✓ 2 | ✓ 10-10/6 | ✓ 12-3/8 | ✓ 14-16/13 | ✓ 16-5/10 | ✓ 41-6 ~~38-2~~/16 | ✓ 12/4 | ✓ 7-1/4 | ✓ ~~26-16~~ 31/9 | ✓ 3

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22h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-5.9	3	1	7	3	3	7		8	9.1-9.3
	4		3		4	4		2	
			6		0			3	
			1		0			2	
					1				

22h.

B	6.5.	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.1-6.1	1	5	6	2	0	4	3	6	
6.2-5.4	2	1			3	9	4	6	
	3				3	1		0	
					4				
					0				

23h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1	1	8	1	2	2	11	3	
			3	1	0			5	
			2	4	4				
				2	1				
					6				
					1				

23h.

B	6.5.	7.	7.5	8.	8.5	8.8	8.9	9.	F.
6.2-5.9	2	6	4	1	5	4	2	5	
		3	2	5	3	8	5	5	
		2		3				6	
				1				2	
								6	

✓ 1	✓ 3-5 / 3	✓ -2 / 2	✓ 18-12 / 7	✓ 7-4 / 5	✓ 22 / 11	✓ 13 / 3	✓ 11 / 1	✓ 23 / 6	✓ 1

✓ 3	✓ 3 / 2	✓ 13-8 / 6	✓ 12-1 / 4	✓ 11-1 / 5	✓ 18 / 7	✓ 6 24 / 5	✓ 14 / 4	✓ 36 / 8	—

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0 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	2	5	5	1	5	1	3	6	9.3-10.0
		2	3		0	2	7	5	9.3-9.6
			3		5				9.2-9.3

0 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.6.3		4	0	5	0	3		4	9.2-9.7
		0		2	1	0			
		4		1	2	2			
		3		0					

1 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	1	6	0	2	1	4		2	9.4-9.5
	0	3	2		2			0	9.2-9.5
					3			2	9.3-9.5
					1			2	9.1-8.3
					5				
					2				
					2				
					2				
					1				

1 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	0		1	1	2	0	1		9.2-9.6
	2		6	1	3		3		9.2-9.3
	4			2	2				
	6			2	5				

✓ ✓1-2/3 ✓16/4 ✓3-10/5 ✓1-2/2 ✓9-20/12 ✓6-1/3 ✓10/2 ✓15-2/6 ✓7

✓ ✓1 ✓7-16/8 ✓0/1 ✓15/6 ✓6-3/7 ✓15-2/7 ✓0/1 ✓8/3 ✓3

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+44° +47°

2h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		1	0	2	0	2		6	9.2-9.3	
			2	1	2				9.2-9.6	
				0	4				9.2-9.3	

2h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
		1	3	2	2		7	3	9.2-9.6	
			2		3			2	9.2-9.3	
									9.2-9.2	
									9.3-9.7	
									9.2-9.5	

3h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	2	3	0	3				0	9.1-9.3	
			1	3				2	9.1-9.3	
				3				1	9.2-9.3	
				1				1	9.1-9.5	
				1						

3h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.2-3.7	4		0	5	1	1		6	9.4-9.5	
			4	3	0			6	9.1-9.3	
				1				1	9.2-9.1	
								3	9.2-9.6	

$\frac{-2}{1}$ $\frac{1-3}{2}$ $\frac{1-2}{4}$ $\frac{6-8}{8}$ $\frac{6}{3}$ $\frac{-2}{1}$ $\frac{10}{5}$ $\frac{-5}{2}$ $\frac{7-2}{4}$ $\frac{4-7}{4}$ $\frac{3-3}{4}$ $\frac{-1}{1}$ $\frac{7}{1}$ $\frac{19-2}{6}$

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4 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	4	9	4	6	7	5		2	9.2-9.5	
		~~15~~ 9	4	2		5		1	9.2-9.2	
		7	0			4			9.5-10.0	
		9								

4 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	6	7	4	1	2		5	4	9.1-9.0	
	6	7	3	3	2			5	9.3-9.6	
	2			3	0			7		

5 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
20-22		5	1	1	2	6	4	2	9.4-9.7	
			4	0	2		2	3		
			5	1				12		
								9		

5 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
			3	2	4	0		3	9.3-9.5	
			4	2	2	3		2		
			6	2	8.	6		2		
			7		2			3		
			1		3.			4		
					1					
					0					

✓ 1 | ✓ 4/1 | ✓ 34/40-5/5 | ✓ 18/6 | ✓ 8-2/5 | ✓ 9-2/3 | ✓ 20/4 | ✓ 6/2 | ✓ 20-9/6 | ✓ 4 | ✓ — | ✓ 14/3 | ✓ 14/2 | ✓ 27-1/7 | ✓ 7-6/6 | ✓ 17-7/10 | ✓ 6-3/3 | ✓ 5/1 | ✓ 30/8 | ✓ 3 | ✓

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6 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	3	4	0		5	0		5	9.2-9.2
	6	2	2		3	5			9.2-9.3
					3	6			
			4 6		7	2			
			~~14~~ 6		1				
			~~14~~						

6 h.

B	6.5.	7.	.75	.8	.85	.88	.89	.9	F.
		8	1	5	4			5	9.1-9.1
				7	6			1	9.2-9.3
				6					
				6					
				0					

7 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	0		4	5		4		7	9.2-9.3
	0		7			5			9.1-9.3
						2			
						6			

7 h.

B	6.5.	7.	.75	.8	.85	.88	.89	.9.	F.
		3	4	1			4		9.1-9.5
		0	1	3					9.1-9.4
		1	6	6					9.1-9.5
		8	5	10					9.1-9.4
				9					9.3-10.0

✓ — $\frac{3\text{-}6}{4}$ $\frac{-6}{2}$ $\frac{17\text{-}12}{7}$ $\frac{5}{1}$ $\frac{18\text{-}1}{5}$ $\frac{28\text{-}2}{8}$ ✓ — $\frac{12}{2}$ ✓ 4 ✓

✓ ✓ — — $\frac{-8}{1}$ $\frac{13}{5}$ $\frac{39\text{-}1}{9}$ $\frac{39}{7}$ ✓ — $\frac{4}{1}$ $\frac{5\text{-}1}{2}$ ✓ 7 ✓

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9h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		2	9		5	6	1	7	9.1-9.4
			7			3		7	
								2	
								1	
								4	

8h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		6	1	6	7	9	6	2	
			7		10			16	
			2					2	
			12						
			2						
			2						

9h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		3	3	0			5	4	9.1-9.8
			2	4					
			2	2					
			7	8					

9h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		3	2	0	3	5	7	8	9.2-10.0
		1	2	4	2			6	
			1					5	
								14	

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
–	–	-2	19	14	14-5	6	6	22-3	2	–	-6	-4	31	10	22	14	13	53	1					
		1	3	4	5	1	2	6			1	2	9	3	4	2	2	7						

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10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	2	3	7	7		5	6	7	
			0	2				16	
			1	2				8	

10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	1	2		5	2	2		7	9.2-10.3	
		2			5	8				

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	1		1	3	1	4	5		9.3-11.0
			3	2	6				9.1-9.4
					6				

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	1	2	5	0	6			6	9.3-9.9	
	1	4		7	3			6		
		0			5					
		0								
		7								

–	2-1	3	4-8	14-2	13	9	11	31	2	–	2-1	15-2	5	7-5	18-3	10	–	19	2	
	2	1	5	5	3	2	2	3			3	7	1	3	5	2		3		

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12 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
6.1-6.3	4	3	5	2	5	6		1	9.1-10.0
			5	5	7				
					5				

12 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
					6		8	11	
					2			7	
								4	

13 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	1	8	7		1			2	9.1-9.7
	1							1	9.2-10.0
	2								9.2-10.0

13 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
			6	4	3	5			9.2-9.6
			6	3		8			9.3-9.8
				2					

1 ✓ 8/4 ✓ 11/2 ✓ 17/3 ✓ 7/2 ✓ 17-1/4 ✓ 6/1 ✓ – ✓ 4/3 ✓ 4 ✓

– ✓ – ✓ 12/2 ✓ 9/3 ✓ 11/3 ✓ 13/2 ✓ 8/1 ✓ 22/3 ✓ 2 ✓

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14h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	2	1		1	4			11	9.1-9.8
				8					9.2-9.3
									9.2-9.8
									9.2-9.4

14h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	5.3-5.6	0	7	2	4	4	5	7	9.2-9.6
	6.2-6.4	2		2		9		7	
		2		1					
				7					

15h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	4	6	7	5	6			7	9.3-10.0
	5	1	12					7	9.1-10.1
		3	1						9.1-9.7
			3						
			5						
			1						

15h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	5	2	4	4	5	6	8		9.1-9.6
		6				2			
						8			

✓ 7-4 (3) 9-2 (4) 26-3 (6) 13-1 (3) 10 (2) ✓ ✓ 25 (3) 7 ✓

✓ 2 ✓ 9 (4) 15 (3) 16 (5) 8 (2) 18 (3) 21 (4) 22 (3) 2 ✓

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16h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
			1	6	2		6		9.4-9.9	
			3	10					9.3-10.1	
				3					9.3-9.8	
				7					9.1-9.8	

16h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
		2	0		1	3		3	9.3-10.2	
					3			10		
					7			6		
								5		
								7		
								8		

17h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
	1	1	2	4	5		7	6.		
	3	0		3	3			0		
	2			1						
	7									

17h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F	
60.6.1	6	7	6	0	8	10	9		9.2-9.8	
	2	4	3	2	4	8			9.1-9.8	
	1				1				9.2-9.8	
	1								9.2-9.4	
	4									
	0									

√		√	√	√	√	√	√		√	√	4	√	1	√	√	√	√	√	√	√	√	√	√	√	5	√
—		13	−1	6	30−4	10	—		13	6				13−1	6−7	9	2	23−1	21	9	39					
		4	2	3	7	3			2	2				6	3	3	2	6	3	1	6					

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18 h.

B	6.5	7.	.75	8.	.85	.88	.89	9.	F.
		3	5	8	3	0	3		9.1-9.5
		3		0	3	8	6		9.1-9.2
		3		2					9.2-9.2
		0							

18 h.

B	6.5	7.	.75	8.	.85	.88	.89	9.	F.
6.2-6.4	2	7	7	2	7	9		7	9.2-9.5
	3	5		1	7				
		2			3				

19 h.

B	6.5	7.	.75	8.	.85	.88	.89	9.	F.
6.2-6.8	6	1	1	4	2		3	2	9.2-9.4
	4	1	4		1		6		9.2-9.2

19 h.

B	6.5	7.	.75	8.	.85	.88	.89	9.	F.
	1	1		~~20~~	4	3		3	9.1-9.3
		4		4	1				9.3-9.6
		4			4				9.1-9.3
		3			0				9.2-9.4
					2				9.2-9.6
									9.2-9.4

✓ 1 | ✓ 10/2 | ✓ 5-6/6 | ✓ 9-1/3 | ✓ 14/4 | ✓ 8-1/4 | ✓ 8/2 | ✓ 9/2 | ✓ 11/3 | ✓ 5

✓ 1 | ✓ 6/3 | ✓ 26/7 | ✓ 7/1 | ✓ 3-4/4 | ✓ 21-7/8 | ✓ 12/2 | ✓ – | ✓ 10/2 | ✓ 7

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20h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.2-5.6	7	5	3	3	1	1		1	9.2-9.8	
		6	1	0	3	0			9.1-9.2	
		0	0	2	2				9.3-9.5	
		3	1	1	0				9.1-9.2	
		2		2					9.3-9.6	
		4		3					9.2-9.6	
									9.1-9.1	
									9.2-9.4	

20h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.2-6.1	2	3	5	1	1	6	0	2	9.4-9.7	
	2	2	2	3	3	3		4	9.4-R	
	3	3	0	1	0				9.2-9.8	
	1	1			2					
	5				1					
					1					
					0					
					4					
					2					
					2					
					0					
					3					

21h

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
4.1-4.4	5	2	1	1	4	0	5	0	9.2-9.3	
	3		3	6	1	8	3	4	9.3-9.5	
	0			4	4	2		3	9.2-9.8	
	5							4		
	3							1		
								5		

21h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
6.2-6.4	3	3	0	2	1	2		3	9.3-9.6	
	0	3	0	8	2			6 4	9.2-9.3	
	1	1	2	5	3			4		
			4	2	3					
				2	4					
				2						

✓ 2	✓ 8-15 / 6	✓ 13-9 / 7	✓ 8-1 / 6	✓ 20-2 / 9	✓ 11-4 / 7	✓ 9-2 / 5	✓ 8 / 2	✓ 18 / 7	✓ 11	
✓ 2	✓ 6-11 / 8	✓ 7-9 / 7	✓ 11-2 / 7	✓ 23-3 / 9	✓ 27-5 / 17	✓ 11 / 3	✓ 0 / 1	✓ 19 / 5	✓ 5	

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22 h.

B	6.5	7	75	8	85	88	89	9	F	
6.0-5.4	0	2	3	1	2	4	1	4	9.1-9.9	
	0	2	6	0	3		2		9.2-9.8	
		4								

22 h.

B	6.5	7	75	8	85	88	89	9	F	
	4									
6.2-6.6	~~4~~	4	7	1	2	4	2	6	9.4-10.1	
	1	3	5	2	3	9	2	3	9.2-9.6	
		1		6	1			3		
		6		1	1					

23 h.

B	6.5	7	75	8	85	88	89	9	F	
6.2-6.7	1	3	2	9	0	7	4	7		
	1	2	4	7	5	6		8		
	4	6	6							
	2	4	3							

23 h.

B	6.5	7	75	8	85	88	89	9	F	
	1	6	6		5			4		
	2	1	3		4			2		
	0	2			4			10		
		2			3					
					11					
					2					
					3					

✓ 2 | ✓ 6-2 / 6 | ✓ 12-11 / 7 | ✓ 19-5 / 6 | ✓ 16-1 / 4 | 40 / 4 | ✓ 17 / 3 | ✓ 7 / 3 | ✓ 19 / 3 | ✓ 2

✓ 1 | ✓ 8 / 5 | ✓ 22-3 / 8 | ✓ 21 / 4 | ✓ 9-1 / 4 | ✓ 33-6 / 11 | ✓ 13 / 2 | ✓ 4 / 2 | ✓ 28 / 6 | ✓ 2

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0 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

4 3 2 4 5 9.2 9.4
12 6 2 2 3 9.2 9.3
3 0 4 9
1 0
1 3
4

0 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

2 3 1 2 1 5 1 9.2 9.4
0
2 2 1 0 4 2
4 4 3

1 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

4.1-4.3 5 2 9 2 3 6 9 7
1 6 4 7 17
6 9 3 4
6
5

1 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6.1-5.7 7 2 9 4 6 2 5
4 6 2 4
4 4
10

1 5/1 3/2 18/43 25/8 31/9 6/1 25/5 56/8 2 1 7-12/5 10-7/5 11/3 6/2 26/6 3/3 13/3 9-2/4 1

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2h.

B	6.5	7	7.5	8	.85	.88	.89	9	∓
6.2-56	3	4		4	8	4	4	8	9.2 9.5
	6	1		6	2	2	5	6	9.5-R
						7		4	

2h.

B	6.5	7	7.5	8	.85	.88	.89	9	∓
6.1.5.4	1	3		3	3		4	D	
	1	3		8	5			5	
				1					
				2					

3h.

B	6.5	7	7.5	8	.85	.88	.89	9	∓
42-43	8	3		4	5		5	5	
			0		4			9	
			3		3			1	
					8				
					6				
					4				
					1				

3h.

B	6.5	7	7.5	8	.85	.88	.89	9	∓
	1	0	2	1	6			9	
		3	2	5				5	
			6						

2 | 6-11/3 | 8/3 | -4/3 | 14-2/4 | 36-5/9 | 13/3 | 14/3 | 24-1/6 | 2

1 | 2-1/3 | 6-3/4 | 10/3 | 19-1/6 | 14/3 | - | 4/1 | 22/4 | -

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4h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
4.8-4.7		0	1/3	3/6	3	2		2	9.1	9.1
6.0-5.4		10	3	3/3	3			5		
		6			4			3		
		1			1			4		

4h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.1-5.9		1	1/3	2	6			4	9.5	
		0		0	6					
				1	4					
					3					
					3					
					0					

5h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.0-6.2	3	3		1	1	1		1	9.4	9.5
6.0-5.9	1				4	1		1	9.2	9.4
6.0-6.2	1	3	2	1	3	1				
					3	1				
					2	4				
						8/7				

5h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
				8	3	3	3	1	9.2	9.2
					3	3		5		

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

4 | 4/2 | 19-1/5 | -4/2 | 6-7/4 | 13-11/9 | 6-4/6 | - | 14-2/6 | 3

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

1 | - | 8-1/3 | 3-4/3 | 9/5 | 25-3/8 | - | 0/1 | 10/3 | 1

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6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
60-53			1		4	1	1	2	
			6		4	1		2	
			3						
			2						
			2						

6h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
			3 4	6 ~~2~~	0	5	2	0	
				3		4	3 ~~3~~		
							2		

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
60-53	4	5	3	2	0		5	1	9.1 9.2
			11	~~21~~	4			3	
					3			2	

9h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
				2	7	1	4		
				5 3	3	2	4		
				3			1		
							6		

✓ 2 ✓ -4/1 ✓ 5/1 ✓ 27-1/7 ✓ 2/1 ✓ 8-7/5 ✓ 1-1/2 ✓ 6/2 ✓ 10/5 ✓ 1 ✓

✓ ✓ ✓ 3-7/3 ✓ 14-3/4 ✓ 7-2/3 ✓ 18/6 ✓ 5/1 ✓ 4-2/2 ✓ 10/6 ✓

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g h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
	3	2	~~3~~ X	2				6	9.2 9.2
	8		~~1~~ X	0					
			4	4					
				1					
				0					

g h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
			~~1~~ X	5				0	
			4					6	
			1						
			0						
			1						

g h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
	2		0 2 X X	4		~~X~~ 3	2	9.3	10.0
			6	1		2	3		
			1						

g h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	ℱ
			2					9.1	9.7
			~~6.8 6.8~~	0	3	0	5	9.1	~~9.2~~ 8.4
			~~6.8 6.5~~	3	7	~~5~~		9.2	9.0 8.4
						3			

∫		3-10		2		15	10	-4		2-3	8-3	2		2	-3	15-2	-5	-3	5		6	3
−		3		1		6	7	1	−	2	3		−	1	2	7	1	2	1	−	2	

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10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∫
6.0-6.2	3			4		6			
~~6.4~~	~~7.1~~	6	8	~~X~~	4	×			
6.2-6.5		2		3	9	4			
						0			

10h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∫	
				4						
	6	0	~~3~~	2		3		2	9.4	9.5
		1	3							6
									9.2	9.~~7~~
		3							9.1	9.5
									9.2	9.6

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∫	
		5					0		9.5-8.3	
	1	8	1	3			~~1~~	4	9.3	9.4
		11					5	4	9.2	9.3
									9.3	9.7
									9.2	9.9

11h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∫	
				3						
				~~4~~	5			1	9.4	9.8
								6		

✓ 2 | ✓ 3-1/2 | ✓ 17/4 | ✓ 8-1/2 | ✓ 4-3/2 | ✓ 16/3 | ✓ 10/3 | ✓ 5/2 | ✓ 8/2 | ✓ 5

✓ – | ✓ 6/1 | ✓ 4/3 | ✓ 7/2 | ✓ 3-2/2 | ✓ 5/1 | ✓ -3/1 | ✓ – | ✓ 8-1/3 | ✓ 5

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12h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	.
	0		3	7	8	5		5	9.4	10.0
			3							

12h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	.	.
	6		8 (2)					4	9.2	9.9	
	3		4					5	9.1	9.7	
			3					5	9.4	10.1	

13h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	.	.
	1	4	3	4	5		5	9.1	10.1	20-18	2
				3							

13h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	.	.
			4	1				3	9.2	9.5	
								5	9.4	10.3	
									9.3	9.6	
									9.2	9.5	

–	0/1	1/1	10/3	10/2	12/2	13/3	–	10/2	2	1	11/3	–	11-2/4	1/1	–	–	–	22/5	7

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14h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. ☿ .

7 8 1 1 3 3 1

3 1

8

14h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. ☿ . .

2

55.5.5 3 2 0 1 6

1

57.59 6 0 5

15h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. ☿ .

4

X 2 5 4

5

8

X

15h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9. ☿ . .

6 9

4 10 2 6 4 2 8

5 4 4

✓ 7/1 ✓ 11/2 ✓ 1/1 ✓ 12-2/4 ✓ 2-3/2 ✓ 5/1 ✓ 3/1 ✓ 18/4 ✓

✓ 2 ✓ 4/1 ✓ 8-6/3/4 ✓ 14-1/5 ✓ 8/3 ✓ 9/4 ✓ 2/1 ✓ ✓ 20/3 ✓

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16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∓
60-63		4	12			X	4	9.1	9.7

16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∓
	1	2	0		5	5			
	0				4	5			

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∓
62-62	1	5	2	5	7	5		9	9.1 98
		5	6	5	7	8		6	9.3 96
		4	8	6	5			7	
					4				
					3				
					8				

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	∓	
		11	2	7	~~8~~	5	—	~~6~~	9.2	99 X
		2	5		#	5	~~3~~		9.4	9.5
		11			≠				9.2	9.6
									9.1	96 X

✓2 ✓1/1 ✓18/4 ✓26-2/4 ✓16/4 ✓34/6 ✓19/3 ✓4/1 ✓22/3 ✓3

✓ ✓1/2 ✓26/4 ✓5-2/3 ✓10/2 ✓9/2 ✓23/4 ✓ ✓ ✓4

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18h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	☿
	3	2	1	3	3	5	3	9.2	9.5
	2		3		3	9			
	1		1		3	4			
			7		0				

18h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	☿
6.2-6.4	1	0		4	5 X 6 H 7		3	6	
		4					3		

19h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	☿
6.2-6.2	3	2	X 4	4	2	1	2	0	
6.0-5.8	1	5	0	4 3	1		8	3	
4.9-4.9	1			2	2			2	
	2			2	4			5	
	4			2	2			1	
					2			4	
					3				

19h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	☿
6.2-6.3	3	4	5	0	2		3	0	9.2 9.3
6.2-6.4		8 X	6	6 X	0		2		
		2	5	3 0			5		
		4		5					

-3 | 12-5 | 5-4 | 9-7 | 8-10 | 22-3 | 19 | 10 | 18 | ☿1

8 | 3 | 6 | 6 | 11 | 4 | 2 | 7

3 | -4 | 22 | 11-5 | 18 | 18-2 | - | 16 | 6 | 1

2 | 6 | 3 | 6 | 5 | | 5 | 2 |

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20 h.

B	6.5	7.	7.5	8	8.5	8.8	8.9	9.	F.
5.5-5.4	1	3	5	3	5			5	
6.2-6.4	0	2	5	2	0			2	
				0					
	0	0		X				1	
				0X				1	
				1				5	

20 h.

B	6.5.	7.	7.5.	8.	8.5	8.8	8.9	9.	F.	
6.2-6.3	5	7	3	9	5	6		5	9.2	9.6
	4	1	3	8	4	0		4		
			3	5	5			3		
					0					
					3					

21 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.0-5.9	4	0	X	X	1	5	7	6	9.4	9.6
			1	0	0	2		4	9.3	9.9
			5	3	1	1		2	9.4	9.5
			0		0			X	9.1	9.5
			1		X			R		
					2					
								1		
								1		

21 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
	3	3	1		2	2	1	2	9.2	9.5
		1	4		1	1		0		
		6			2	4		3		
					1			3		

3 | 4-1 / 4 | 3-2 / 4 | 13-6 / 7 | 10 / 8 | 8-6 / 8 | 7-1 / 3 | 7 / 1 | 29-4 / 12 | 4

1 | 12 / 3 | 17-1 / 5 | 13-8 / 7 | 22 / 3 | 20-3 / 9 | 12-1 / 5 | 1 / 1 | 20 / 7 | 2

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+49° +50°

22 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	f.
	1	2	8	1	4	0	1	1	9.3 9.4
	3		4	3	4	1		3	9.2 9.2
	2		0		3			0	
					1			2	
					2			3	

22 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	f.
	60.56	1	0	0	0			3	9.2 9.2
			2	1	5			2	
					4			1	
					3				
					5				
					3				

23 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	f.
	3	7	5	6	3		3	4	
	1	8	7	4	2		5	7	
	1	1	3	5	2			4	
		6	7	2				4	
		3	4					2	
		4						3	
								5	

23 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	f.
		2	3	1	5	1	2	5	9.2 9.3
		1	5	2	5	1	2	5	9.1 9.5
		1	1		3	4			9.1 9.5
					3				
					4				

✓	5-6	20-3	30-4	18-5	17-4	1	10	38	2 ✓
—	6	6	9	6	8	2	3	12	

✓	✓	3-3	9-9	13-7	28-7	5	2	15-1	4 ✓
1	1	5	6	6	10	2	1	5	
	1								

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$+\sqrt{4}^{\circ}$ $+\sqrt{-5}^{\circ}$

0 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

3 1 4 4 1 3 2 5 0
5 2 4 3 2
7 0 6 1 0
4 1 2
3 2
2

0 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

R 0 4 4 1 3 9.2 9.3
1 5 1
1
1

1 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

1 2 5 2 1 2 2 3
2 1 4
3 1
6

1 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

0 2 3 7 0 6
1 3 2
3

✓ −4/2 ✓ 6−2/3 ✓ 11−9/6 ✓ 27−4/10 ✓ 5−4/7 ✓ 5/2 ✓ 4/2 ✓ 18−2/9 ✓

✓ ✓ −1/2 ✓ 3−2/4 ✓ 11−6/8 ✓ 13−5/4 ✓ 0/1 ✓ 1−1/2 ✓ 9/2 ✓

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$+\sqrt{4}^{\circ}$ $+\sqrt{-\sqrt{-}^{\circ}}$

2 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
	1	3	3	2	1				
	3	6	5	2	6	1			
	7	5	4						
	3		3						

2 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	0	0	X	7	4	1	3	1	9.1	9.1
	3		9	5	3				9.3	9.8
			2	1	5					
				1						

3 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F
48-49	4	6	0	X	4				
		4		3					

3 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	.F	.
	3	1		X	3		1		9.3	9.1
		1		4						

1	18/5	20-4/5	17-5/6	13/4	5/2	–	–	–	–	–	3-3/3	1-1/3	4/3	14-4/5	12-3/4	1/1	3-1/2	-1/1	3		

1895phae.proj.1724.

$+\sqrt{-4}^{\circ}$ $+\sqrt{-5}^{\circ}$

4h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

2
9 4 3 3 4 4
4 3 3 4

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

58.55 0 3 1 0 3 2
1
5 2
0
5
2

5h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

4 2 0 2 0 3
X 2 X
1 6 3

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

5 1 1 3 1
1 0

5 -8 15 9 6 3 7 15
2 2 3 3 1 2 4
4

5-1 3 9-1 -3 -3 3 3
3 1 7 3 1 1 2

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$+\sqrt{4}^{\circ}$ $+\sqrt{\sqrt{}}^{\circ}$

6h.

B 65. 7. 75. 8. 85. 88. 89. 9. ℱ.

5 2 4 2 4

2
1 0

0

2

1

6h.

B 65. 7. 75. 8. 85. 88. 89. 9. ℱ. .

3
60-74 2 2 ~~1~~ 2 2

2

1

3

7h.

B 65. 7. 75. 8. 85. 88. 89. 9. ℱ.

4 2 2 2 1 2 1

0 2 7

2 0 5

1

7h.

B 65. 7. 75. 8, 85. 88. 89. 9. ℱ. .

3
2 ~~1~~ 0 5 2 1

3 2 0

1

✓ — ✓ −6/3 ✓ 2/1 ✓ 2/1 ✓ 9-4/7 ✓ 5-1/6 ✓ 6/2 ✓ 2/1 ~~4~~ ✓ 17/4 — ✓ ✓ 1 ✓ 2-5/3 ✓ 8-2/4 ✓ 0/1 ✓ 2-5/4 ✓ 2-2/2 ✓ 1/1 — ✓ 8/4 —

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$+\sqrt{4}^{\circ}$ $+\sqrt{5}^{\circ}$

8 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .

5.8-5.7 1 6/5 0 4/2 1 1/3 1

8 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

2 8 1/2/3 1 1 2/6 9.2 9.4

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6.2-5.8 3 1/3/1 10 1 5/5

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

5 2

✓ 2 ✓ -1/1 ✓ -14/3 ✓ 3-4/4 ✓ 0/1 ✓ 10-6/3 ✓ 2/2 - ✓ 9/3 - ✓

✓ - ✓ -7/2 ✓ 8/1 ✓ 4-2/3 ✓ 1/1 ✓ -1/1 ✓ -2/1 - ✓ 6-2/2 ✓ 1

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+54° +55°

10h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 9.7 .

6.0–5.8 3 6 1 9.4 9.X 5

3 9.4 9.4 5

7 9.2 9.5

10h.

B 6.5 . 7 . 7.5 . 8 . 8.5 8.8 . 8.9 . 9 . 9.7 . .

1 2 4 1 9.3 9.6

9.2 10.0

11h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . 9.7 .

0

1 ×6 2 5 4 9.2 9.6

4 4

11h.

B 6.5 . 7 . 7.5 . 8 . 8.5 , 8.8 . 8.9 . 9 . 9.7 . .

3 1 2 8

2 1

1

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

1 −3 8-13 − 10 2 6 − 4 4 − −6 2 − 2 3 − 4 9 2

1 1 5 3 1 2 1 3 2 1 2

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1895phae.proj.1724.

$+\sqrt{4}^{\circ}$ $+\sqrt{5}^{\circ}$

12 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
62-60	4		2				~~5~~ ~~4~~ 5	9.1	9.8
62-59			0						
			1						

12 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	2	2		2 8 4 3	5	2 4		4 3	

13 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	0	5	6				3	9.2	9.7
			8					9.2	9.3

13 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	10	1	0	1	0	8		2	9.4 9.5
				0				4	
				4					

Dm +55° 1651 Neb. Magn. in N.P.

✓ 2 ✓ $\frac{-4}{1}$ ✓ $\frac{0}{1}$ ✓ $\frac{16}{5}$ ✓ $\frac{6}{1}$ ✓ – ✓ – ✓ $\frac{5}{1}$ ✓ $\frac{4.3}{2}$ ✓ 3

✓ – ✓ $\frac{-10}{1}$ ✓ $\frac{2-1}{2}$ ✓ $\frac{2}{2}$ ✓ $\frac{10}{4}$ ✓ $\frac{9}{4}$ ✓ $\frac{14}{3}$ ✓ – ✓ $\frac{9-4}{4}$ ✓ 1

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1895phae.proj.1724.

+√7° +√5°

14h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∫ .
5 0 6 1

14h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∫ .
1 1 2 2 0
1
2

15h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∫ .
6.0-5.9 2 2 1
3 1

15h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . ∫ .
3
5.5-5.2 ~~2~~
2
× 0
6.0-5.8 7
6.0-5.5
5.1-5.0

✓ ✓
1 2-3 5 2 – 6-2 1 – – – 4 1-10 1 4-1 -2 2 0 – – –
2 1 2 3 1 3 1 2 1 2

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1895phae.proj.1724.

$+\sqrt{4}^{\circ}$ $+\sqrt{\sqrt{\ }}^{\circ}$

16 h.

B 65 . 7 . 75 . 8 . 85 , 88 . 89 . 9 . ƒ .

3 0 2 4 2

1

4

16 h.

B 65 . 7 . 75 . 8 . 85 , 88 . 89 . 9 . ƒ . .

0 2

3 4 1 4

4

17 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . ƒ .

1 1 2

17 h.

B 65 , 7 . 75 . 8 . 85 . 88 . 89 , 9 . ƒ . .

1 2 4 4 8

3 2 1 5

6

2

✓ — ✓ 1/1 ✓ 3/1 ✓ 1/2 ✓ — ✓ 7/3 ✓ 2/1 ✓ 4/1 ✓ 4/2 ✓ 1

✓ — ✓ 5-3/4 ✓ — ✓ — ✓ 2-2/2 ✓ 13-3/5 ✓ -2/1 ✓ 5/2 ✓ 17/3 ✓ —

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1895phae.proj.1724.

$+\sqrt{4}^{\circ}$ $+\sqrt{5}^{\circ}$

18h.

B	65	.7	.75	.8	.85	.88	.89	.9	.F	.
60-62	2	4		1	4	1		1	9.2	97
					4	3				
					3					

18h.

B	65	.7	.75	.8	.85	.88	.89	.9	.F	.
		4								
		8	4	4	4	1	5	4	9.1	9.6
		8	4				4	5	9.2	9.4
		4	4				5	1		
								0		
								2		
								8		

19h.

B	65	.7	.75	.8	.85	.88	.89	.9	.F	.
	2		2	5	3		6		9.1	96
	3		6		6		4			
	5		1		0					
			5		3					
			5							
			1							
			5							

19h.

B	65	.7	.75	.8	.85	.88	.89	.9	.F	.
	7	1	3	6	4	3		6		
	4	4		1	2			3		
	3	2		2				3		
				6						
				5						
				3						
				2						
				5						
				1						

✓ 1	✓ 10-2 / 4	✓ 4 / 1	✓ 24-1 / 7	✓ 5-1 / 2	✓ 23 / 7	✓ 4 / 2	✓ 10 / 2	✓ 1 / 1	✓ 2	✓ —	✓ 14 / 3	✓ 21-2 / 6	✓ 11-4 / 4	✓ 32-3 / 10	✓ 10 / 3	✓ 4 / 2	✓ 14 / 3	✓ 24 / 8	✓ 2

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+√4° +√5°

20h.

B	65.	7.	75.	8.	85.	88.	89.	9.	7.
60-57	0	4/4	~~8~~ 2	3	3	2	0	2	9.2 9.6
	9	~~5~~	2	0	1			3	
	7	0	9		4			5	
		5			1			6	
		3						5	

20h.

B	65.	7.	75.	8.	85.	88.	89.	9.	7.
60-58	3	4	2	0	2	0	4	~~8~~	
60-60	1	1		3		3		2	
	1	7							
		2							

21h

B	65.	7.	75.	8.	85.	88.	89.	9.	7.
61-60	3	0	5	3	3			8	
		7	6	~~3~~ 7	6			4	
			7	5					
			0	3					
			2						
			5						
			5						
			1						

21h.

B	65.	7.	75.	8.	85.	88.	89.	9.	7.
60-61			~~8~~ 0	3	1	1	5	2	9.5 9.7
60-56			~~4~~ 6	4	4	1		6	9.3 9.8
62-59			~~2~~ 4	6	4			4	
			2	1				0	

✓ 2	✓ 19/4	✓ 19-4/7	✓ 42-2/11	✓ 21/6	✓ 17-1/6	✓ 2/1	✓ 0/1	✓ 33/7	✓ 1

✓ 5	✓ 1-4/3	✓ 10-4/4	✓ 13-2/6	✓ 8-9/6	✓ 11/4	✓ 5/4	✓ 9/2	✓ 22/6	✓ 2

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22h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	1			4	1			9.1 9.5	
				1	1				
					1				
					0				
					3				

22h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
								2	
	59.5	2	7	3	3	0	2	5	
		4	3	2	6	2	0		
		1	5	2	1	1			
			2			3			

23h.

	B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.0-5.9		X	1	3	2	4		2	9.2	9.6
5.0-4.7		5	0	3		1		1	9.3	9.7
		1	1	3		0		4		
								1		
								5		
								0		

23h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
	3	5	5	3	2	4		6	
				2	1	2		5	
						3			

2	1/1	6/2	7-1/4	8-6/5	4-4/6	5/3	–	13/6	3		1	4-6/4	7-15/5	-12/4	5-11/6	6-3/6	4-5/3	2/2	8-5/3	–					

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+√9° +60°
~~+69 +70~~

0 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
~~60-77~~	3	0	3	2	1				9.1-9.1	
~~60-71~~	8	1	3	2	2				9.3-9.3	
23-R				1	2					
				1						

0 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	5	2	7	1	1		5		9.3-9.0	
									9.2-9.1	
									9.1-8.9	

1 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	1	2	0	7		1	1			
	4	1	3	2		4	5			
	2	6	3	2			4			
	4		1							

1 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F	
	2	1	0	3	1	12 (2)	1	3	9.2-9.3	
	2	1	4	5	0		3	3	9.1-9.1	
	2		3		2			0	9.1-9.1	
	5		4		4				9.1-9.1	
			3							

✓ 1	✓ 3-8 / 2	✓ 12 / 6	✓ 11-4 / 5	✓ 5-8 / 8	✓ 11-5 / 6	✓ –	✓ 5 / 2	✓ 5-5 / 3	✓ 2	✓ –	✓ 4-12 / 5	✓ 1-3 / 3	✓ 11-10 / 6	✓ 9 / 3	✓ 5-3 / 5	✓ 2 / 1	✓ 9 / 3	✓ 6 / 3	✓ 7

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$+\sqrt{9}^{\circ}\ +60'$

~~$+69\ +90$~~

2 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
6.2-6.7	7	1	7	5	1	2	3	5	9.1-9.3
	2	2	2	6		4		1	
	9	7		2					
		2		6					
		4		1					
				1					

2 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	5			3	2				9.1-9.3
				1	1				
				2	1				

3 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	2	4	2	3	8		1	1	
	0	4	4	1	5				
		2	5						

3 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
		3		3	2	0		2	
					4			3	
					5				

✓ 1 ✓ 18-2/5 ✓ 19-7/8 ✓ 18-2/5 ✓ 20-5/8 ✓ 14/3 ✓ 6/2 ✓ 4/2 ✓ 5-2/3 ✓ 1

✓ − ✓ 5/1 ✓ 3/1 ✓ − ✓ 6-3/4 ✓ 14-1/6 ✓ 0/1 ✓ − ✓ 5/2 ✓ 1

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+59° +60°
~~+69 +70°~~

4h.

B 65. 7. 75. 8, 85. 88, 89. 9. F.
3 2 0 3 4 5 3 9.4-9.8
3

4h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
4 4 1 1 9.4-9.8
0

5h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
5.7-5.4 1 5 3 4 2 0
4 5
2

5h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
2 10 0 1 0 9.4-9.8
1 1 9.4-9.4
1

✓1 ✓4-4/3 ✓-2/1 ✓5/2 ✓6/2 ✓6-12/5 ✓2/1 ✓5/2 ✓3/1 1✓

✓– ✓-4/1 ✓4-4/4 ✓– ✓1-10/2 ✓1/2 ✓1/1 ✓– ✓1/3 3✓

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1895phae.proj.1724.

+59° +60°

~~+69° +70°~~

6h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
	3	2	2	2	1	0		3	91-96	
			1	2	4					
				3						

6h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
	58-56	3	2		5			2	91-96	
		5			1				9.1-9.0	
		5								

7h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
50-R		1	1		0		3	5	94-98	
		1	3		0			0	93-94	
		4						5	94-99	

7h.

B	65	.7	.75	.8	.85	.88	.89	.9	F	
	61-60	2			0	1		0	3	
		~~5~~ 2				2		1		
		0				1				
						2				

✓ 1 | ✓ 3/1 | ✓ 1-7/4 | ✓ 1-6/4 | ✓ 4-3/3 | ✓ 5/4 | ✓ 0/1 | ✓ 3/1 | ✓ 13/4 | ✓ 4

✓ 2 | ✓ 2-2/3 | ✓ 3-10/3 | ✓ -2/2 | ✓ 4-2/4 | ✓ 5-1/2 | ✓ — | ✓ -1/2 | ✓ 2-3/2 | ✓ 2

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1895phae.proj.1724.

+59° +60°

~~+69 +70~~°

8h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
6.2-6.3	7	0	7	3	1			1	
		3		0	6				
				2					
				0					

8h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
6.0-5.5	3	2	7	4				3	9.2-9.2
	3							5	9.2-9.5
									9.2-9.4

9h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
	9			1	5			1	9.3-9.6
	2				1			3	
					2			8	

9h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9.	F.
	0		3	3					9.3-9.9

✓ 1 | ✓ -7/1 | ✓ 12-2/4 | ✓ -7/1 | ✓ 3-3/5 | ✓ 15/5 | ✓ – | ✓ – | ✓ 13/4 | 1 ✓

✓ 1 | ✓ 0/1 | ✓ -6/2 | ✓ 5/2 | ✓ 3-7/2 | ✓ 4/1 | ✓ – | ✓ – | ✓ 8/2 | 4 ✓

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+√9° +60°

~~+69 +70°~~

10 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F
	2	3	3	10				1	9.1-9.8

10 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F
	58.56 2		2	1	2			4	
	2		7	3	8			3	
	5		6						
	2								

11 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F
	3	0	1	2				5	9.1-9.7
			3	6				5	
			8	3					

11 h.

B	6.5	7	7.5	8	.85	.88	.89	9	F
		0	2	2		7		5	
				3					
				5					

✓	2✓/1	6✓/2	3✓/2	21-1✓/4	5-6✓/3	✓	✓	11✓/3	2✓	✓	11✓/5	-2✓/1	~~25~~✓/6	3-1✓/2	17✓/3	✓	5✓/1	7✓/2	✓	

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+59° +60°

~~+69 +70~~

12 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
6.2-6.2 3 9.1-9.7

12 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
2 3 7 10 9.2-9.9
6
5

13 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
2 3 2 5 9.1-9.8
6 9.2-9.3

13 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
6 9 0 4 7

1 $\frac{-2}{1}$ $\frac{3}{1}$ $\frac{11}{3}$ $\frac{5}{1}$ 3 $\frac{6-2}{2}$ $\frac{9}{1}$ $\frac{3}{1}$ $\frac{7}{2}$ $\frac{21}{3}$ $\frac{4}{1}$ $\frac{7}{1}$ 1

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1895phae.proj.1724.

+79° +60°

~~+69 +70~~

14h.

B 6.5 . 7 . 7.5 . 8 , 8.5 , 8.8 , 8.9 . 9 . F .

5.7-5.7 5 3 2 5 3

1

14h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6.0-6.5 4 3 5 9.1-9.5

6.2-6.2 7

1

1

15h.

B 6.5 . 7 . 7.5 , 8 . 8.5 . 8.8 . 8.9 . 9 . F .

4 5 0 3 5 3 1 9.4-10.2

1

6

1 5-4/2 12/3 3/2 2-3/2 11/3 6/2 – 1/1 1

15h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .

6.0-6.8 3 1 3 2 2 9.2-9.3

3 3/5

1

3 3/1 5/2 16-2/6 8-3/5/4 – – – 7/2 2

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+59° +60°

~~+69 +70~~

16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	2		6	1	6				
				1					

16h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
	5.5-5.7	7	4		4	1	3	3	5	9.1-9.6
		3	1					2		9.1-9.4
			6							

17h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
			6		5			6		9.4-9.8
					2			2		9.2-8.8
					4			6		9.3-9.6
					4					
					7					

17h

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
					0			1		9.5-9.8
					1			2		9.2-10.0
					3					9.1-9.1

✓ $\frac{-2}{1}$ ✓ $\frac{12}{2}$ $\frac{-2}{2}$ $\frac{28}{6}$ ✓ ✓ $\frac{8-6}{3}$ ✓ 3 ✓ 1 $\frac{11-3}{5}$ $\frac{10-1}{3}$ $\frac{4}{1}$ $\frac{9}{2}$ $\frac{1}{1}$ $\frac{3}{1}$ $\frac{7-1}{4}$ $\frac{9}{2}$ ✓ 5

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1895phae.proj.1724.

$+\sqrt{9}^{\circ}$ $+60^{\circ}$

~~$+59^{\circ}$ $+50^{\circ}$~~

18h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.5		0	0		6			5	
		1			4			3	

18h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.3	1	2		1				4	9.2-9.3
		0							9.2-9.3
									9.2-9.3

19h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.2-6.5	8	1	1	5	9	4	4	1	
	10	7	5	5	10			5	
	2				1			11	
	7				7			5	
								4	
								3	
								4	
								3	

19h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F
6.1-6.7	0	10	3	5	6	3	8	3	
	8	5	11	6	6			3	
		6			6			8	
		3			2				
					6				
					6				
					2				
					5				

2 ✓ | 27/4 ✓ | 7-2/4 ✓ | 6/3 ✓ | 10/2 ✓ | 36-1/6 ✓ | 4/1 ✓ | 4/1 ✓ | 44/10 ✓ | – ✓

2 ✓ | 9/3 ✓ | 24-2/6 ✓ | 3-11/2 ✓ | 11-1/3 ✓ | 39/8 ✓ | 3/1 ✓ | 8/1 ✓ | 18/4 ✓ | 3 –

	Designation
$+59^{\circ}$ 2064	9.0
$+59^{\circ}$ 2065	8.0

Combined light 8.51 measured in M.P.

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$+\sqrt{9}^{\circ} + 60^{\circ}$

~~$+69^{\circ} + 150^{\circ}$~~

20 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.2-6.0	3	3	4	2	1		6	4	9.1-9.5	
	1		3	1	1					
			2	4	6					
			1	3	3					
			1	5	1					
					2					

20 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.2-6.0	1		2	5					9.1-9.3	
				3					9.3-9.9	
				2						
				3						

21 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.0-5.7	0	4	4	2	4	6	2	9		
	3	6	1	4	1		1	2		
		0	2	2	1			1		
		2	4		1					
			5		4					

21 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
6.0-5.7	3	5	3	5	3		5	4	9.2-9.7	
	1	2	6	4						
	2		2	2						

✓ 2 ✓ $\frac{7}{4}$ ✓ $\frac{15}{5}$ $\frac{20-7}{10}$ ✓ $\frac{17-6}{8}$ ✓ $\frac{22-3}{11}$ ✓ $\frac{6}{1}$ ✓ $\frac{6-3}{3}$ ✓ $\frac{16}{4}$ ✓ 1 ✓

✓ 2 ✓ $\frac{3-3}{3}$ ✓ $\frac{3-5}{3}$ ✓ $\frac{11}{3}$ ✓ $\frac{2-11}{4}$ ✓ $\frac{13-3}{5}$ ✓ — ✓ $\frac{5}{1}$ ✓ $\frac{4}{1}$ ✓ 3

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+√9° +60°

~~+69 +70°~~

22 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.	
	1	4		4	2	6	7	1		91-94
	2			3	1					
	0			5	4					
				8	5					
				8						

22 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.	
	54 56			2	1	1	1	1		95-97
	60-59			0	9	1		4		
				5	2	3				
				6	5					
				6						

23 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.	
	0	4	1	2	5	6	3	3		94-95
	1	1	4	1	4					94-96
	2	1	2	1	0					93-96
			5		3					
					5					

23 h.

B	65.	7.	75.	8.	85.	88.	89.	9.	F.	
	2	1	1	3	5	6		3		92-92
		1			1	4				91-94
		2				2				
		0								
		2								
		6								

✓ 1-5/6 ✓ 10/4 ✓ -12/4 ✓ 26-6/8 ✓ 29/9 ✓ 12/2 ✓ 10/2 ✓ 4/2 ✓ 4

✓ 2 ✓ 2/1 ✓ 8-4/6 ✓ 18-2/6 ✓ 9-11/5 ✓ 10-1/5 ✓ 13/4 ✓ - ✓ 8/3 ✓ 3

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+64° +65°

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		6	4		1			0	
			1					4	

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
		3	2	3	6	1	7	3	5
		1	1		6	7			6
			2		2	3			8
					0				0

1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
		4	2	4	0	3	1	1	91-E	
		4			2			7		
		1								
✓	✓	8-1	✓	6-2	✓	8-1	✓	2	✓	4	✓	-1	✓	-	✓	12	✓	1
		3		2		3		2		2		1				4		

1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F	
			1	5	7	2		1	91-95	
				5				2		
								7		
✓	✓	-4	✓	5	✓	3-1	✓	24	✓	18	✓	9	✓	3	✓	29	✓	1
		2		3		2		6		4		2		1		7		

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+64° +61°

2 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
6 0 2 1
4 1 5
2 3 7

2 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
61-62 6 6 1 6
1 0
1 1
6

3 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
5 4
1

3 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
45-R 1 0 1 6
45-R 4 1

✓ ✓ 12/3 ✓ 3-1/3 ✓ 2/1 ✓ 12-7/5 ✓ ✓ -4/1 ✓

✓ 3 ✓ -5/2 ✓ 14/5 ✓ -1/1 ✓ 6-7/3 ✓ 1-1/3 ✓ ✓ 6/1 ✓

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1895phae.proj.1724.

+64° +65°

4h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
2 0 3 3
5 5 3

4h.

B 65. 7. 75. 8. 85. 88. 89. 9. F. .
6 1 1 91-96

5h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
6 1 0 2 1 2
2 3 0
5

5h.

B 65. 7. 75. 8. 85. 88. 89. 9. F. .
1 2 1 0 1 94-92
1 2
1

✓ ✓6/1 ✓-7/2 ✓1-7/3 ✓-5/2 ✓6-3/4 ✓3-2/3 ✓1/1 ✓2/1 ✓

✓ ✓ ✓ ✓3-6/4 ✓-2/1 ✓1-2/2 ✓0/1 ✓-1/1 ✓2/2 ✓2

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1895phae.proj.1724.

+64° +65°

6h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
1 5 2 0 93-98
6
2

6h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
3 2 5 4 91-88
4

7h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
4 3 0 1
2

7h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
62-58 2 3 2 2
6 1
2

✓ ✓ ✓ ✓ 1/1 ✓ 6-5/3 ✓ 6-7/4 ✓ 0/1 ✓ ✓ -1/2 ✓ 1

✓ 1 ✓ 10/3 ✓ 4-3/3 ✓ 2-6/3 ✓ 5/1 ✓ -4/1 ✓ 2/1 ✓ 1

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1895phae.proj.1724.

+64° +65°

8 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
2 0 1 2 9.2-9.6 60.54
0 9.3-9.4
3

8 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
2 0 1 9.1-8.8
0 4
3

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
1 4 1 11

✓ ✓ 1/1 ✓ 2/1 ✓ 0/1 ✓ 4/1 ✓ 5/4 ✓ – ✓ 11/1 ✓ –2/1 2✓

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
1 7 1 3 4
1 1
1

✓ 1 ✓ –1/1 ✓ – ✓ 9–2/4 ✓ 1/1 ✓ 6–1/5 ✓ – ✓ – ✓ 8–1/7/3 1✓

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+64° +65°

10 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	.
62-60		4		0	1	6		4		
		4						2		

10 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	.
		3		2		1	2		4	93-98
										92-90

11 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	.
			1	2	3	1		1		
				2	3					

1	✓	✓	−8	✓	1	✓	−2	✓	4-2	✓	10	✓	−	✓	7	✓				
			2		1		2		3		3				3					

11 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	.
60-R	1	3				2		1	93-94	
		4				0				

1	✓	✓	−4	✓	7	✓	−2	✓	−	✓	1	✓	2-2	✓	−	✓	5	✓	3	✓
			2		2		1				1		3				2			

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+64° +61−°

12h

B 65. 7. 75. 8. 85. 88. 89. 9. F.
6 2 4 1 3 4
3 . 5 5
4

12h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
4 3 3 4 93-96

13h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
1 0 1 3
7 2

13h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
60-56 1 5 0 5 4 4
5

✓ 1/1 ✓ 9/3 ✓ 9-1/3 ✓ 4/1 ✓ 5-1/2 ✓ ✓ 3/1 ✓ 18/5 ✓

✓ 1 ✓ 6/2 ✓ ✓ 4-5/2 ✓ 0/1 ✓ 8/2 ✓ 4/1 ✓ 3/1 ✓ 8/2 1 ✓

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+64° +65°

14h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.
5 3 3
1

14h.

B 65. 7. 75. 8. 85. 88. 89. 9. F. .
3435 2 1· 2 95-101
4 0
5

15h

B 65. 7. 75. 8. 85. 88. 89. 9. F.
2
3
1
6

15h

B 65. 7. 75. 8. 85. 88. 89. 9. F. .
5 1 0 1 1 8 92-97
5 4 1
7

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+64° +6√−°

16 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
52-R 9.4-10.0

16 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
3 5 2 3 9.4-9.6
6 6 2
4
3

17 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
3 6 2 1 0 9.5-10.2
6 2 9.1-9.6

17 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
4 3
2

✓ 1 ✓ -3/1 ✓ 6/1 ✓ — ✓ 6-2/2 ✓ -1/1 ~ — ✓ 2/2 3 ✓ ✓ — ✓ -3/1 ✓ 11/2 ✓ — ✓ 14/4 ✓ -3/1 ~ ✓ 9-3/4 ✓ 1

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$+64^\circ$ $+6\sqrt{-}^\circ$

18 h.

B 65. 7. 75. 8, 85, 88, 89. 9. F.

3 3 4 7

4 3

1

18 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.

60-60 9 1 4 4

55-59 ~~12~~ 8/ 5 4

19 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.

3 3 5 5 6 4

6 8 4 1

3 2

2

19 h.

B 65. 7. 75. 8. 85. 88. 89. 9. F.

7 1 6 5 0 2

6 2 5

3 6

11

10

✓ — 6-3 ✓ 3 ✓ 3-7 ✓ 17-4 ✓ 12-7 ✓ — 6 ✓ 7-2 ✓ — ✓ 2 ✓ — 15-15 ✓ 25-3 ✓ 17 ✓ 10-4 ✓ — 0 ✓ 10 ✓ —

2 1 3 5 4 1 4 4 6 3 3 1 3

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+64° +65°

20h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1	5		0				2	
		3						0	
		0							

20h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	.
	3		1	2	3	0		0	9.4-9.6	
			1					1	9.4-9.4	
									9.5-9.6	

21h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	6	2	8	4	2		2	8	
		2	7	1	4		0	4	
			8		3			3	
			4						
			1						

21h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	.
	2	8	3	5	8	5		1		
	1	3	3	8	8	7		5		
		8	0	4	5			5		
		3		0	7					
		2			6					

✓	1-6	12	27-1	4-1	9	✓	2	17	✓	✓	3-3	22-2	3-5	17-2	37	12	✓	12	3	✓
	2	5	5	3	3		2	5			3	5	5	5	6	3		5		

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1895phae.proj.1724.

+64° +65°

22 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F
	3	6	1	4	1		1		
			2	2	5		5		
			5	1					
			3						

22 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F
	5	0			1				
		4							
		4							

23 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F
62-66	6	1	3	5	5	4	5	2	
	5	2		7	3			8	
	1	6		6	9				
		9							
		3							

23 h.

B	.65	.7	.75	.8	.85	.88	.89	.9	F
	3	13		1	5			2	
	5	4		5				2	
	2	4		12				2	
				0					

✓ 1 | ✓ 14-1 / 4 | ✓ 24-3 / 6 | ✓ 13-1 / 5 | ✓ 25 / 6 | ✓ 23 / 5 | ✓ 4 / 1 | ✓ 11 / 3 | ✓ 10 / 2 | ✓ | ✓ | ✓ 7-8 / 4 | ✓ 29 / 6 | ✓ | ✓ 18 / 4 | ✓ 5-1 / 2 | ✓ | ✓ | ✓ 4-2 / 3 | ✓

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+69° +70°

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	2	4	5	7		0	1	9.1-9.0	
	0	2	2	5				9.2-9.2	
	1								

0 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
	6.2-6.4	1		1	9			3	9.3-9.4
		1							9.3-9.5
									9.4-9.6
									9.4-9.5

1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
6.1-6.0				4	3	7	0	1	
5.2-5.4					3	0	1		
					1				

1 h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	F
6.1-6.5		5		1	0	1	1	1	
						1			

✓ 2	✓	✓ 3/3	✓ 4-2/2	✓ 11/3	✓ 14-5/5	✓ 7/2	✓ 1/3	✓ 1-1/2	✓ 2	✓ 2	✓ -2/2	✓ 5/1	✓ 1/1	✓ 1-9/2	✓ 0/1	✓ 1-1/2	✓ -1/1	✓ 1-3/2	✓ 4

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2 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	2			3	1	3	3	0	9.3-9.6
				2					
				4					

2 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	1			0	2			3	9.3-9.6
				3	3			5	
								1	

3 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	2			1	0	0	1	1	9.3-9.4
				2					

3 h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.
	0			2				2	
				3					
				3					
				2					

✓	2-2 ✓	✓	✓	9-1 ✓	1-2 ✓	3 ✓	4 ✓	1 ✓	2 ✓	✓	1 ✓	✓	0 ✓	3 ✓	15 ✓	✓	✓	10-1 ✓	1 ✓
	2			4	3	1	2	2			1		1	2	6			4	

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4h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	9.7	
	0	2		6	1	2		1	~~9.8-7.8~~	
				0	1			3	9.2-8.5	
					1			3		
								2		
								2		

4h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	9.7	
	2		5	4		4	2			
				1			2			
				1						
				2						

5h.

B	6.5	7	7.5	8	8.5	8.8	8.9	9	9.7	
		1	6	2					9.2-9.8	
			3						9.3-9.7	

✓	✓ 0/1	✓ 2-1/2	✓ 6-3/2	✓ 8/3	✓ 2-1/3	✓ 2/1	✓	✓ 6-5/5	✓ 3

5h.

✓	✓ 5/2	✓ -1/1	✓ 9/2	✓ 6-2/4	✓ 0/1	✓ 4/2	✓ 2-2/2	✓	✓

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6h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
6 4 0 9.5-9.3
1
0

6h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
6.0-6.0 4 3/ 9.1-9.2
6.0-6.6 9.4-9.7

7h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
5 4 3 0 3 2 0
0 4

7h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
0 3 5

✓ ✓ ✓ 12/5 ✓ 8/2 ✓ 3/1 ✓ 0/1 ✓ 3/1 ✓ 2-4/2 ✓ 0/2 ✓ 1

✓ 2 ✓ 0/1 ✓ 3/1 ✓ – ✓ 9/2 ✓ -3/1 ✓ – ✓ – ✓ – ✓ 2

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8 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 89 . 9 . F .

1 3 2

1 4

8 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 89 . 9 . F .

7 1 0 1 9.2-9.5

4

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 89 . 9 . F .

6.1-5.8 0 2 3

5 2

9 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 . 88 . 89 . 9 . F .

1 5 0 9.4-9.5

9.1-8.8

9.4-9.3

✓ ✓

1 1-1 5 -5 6 3-2 7 6 -5 0 1 1 0 4

2 2 2 2 1 3 1 1 1 1

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10 h.

B 6.5 . 7 . 7.5 . 8 , 8.5 , 8.8 , 8.9 , 9 . F .

4.7-5.2 2 1

1 3

9.2-9.5

10 h.

B 6.5 . 7 . 7.5 . 8 . 8.5 , 8.8 , 8.9 , 9 . F . .

6.0-6.0 3

1

11 h.

B 6.5 , 7 . 7.5 . 8 , 8.5 , 8.8 , 8.9 , 9 . F .

6.2-6.4 5 1 0 0 1 5 2 6

2 6

11 h.

B 6.5 , 7 . 7.5 . 8 , 8.5 , 8.8 , 8.9 , 9 . F . .

3.3-R 2 2

5.2-5.3

9.2-8.9

9.2-9.3

9.5-9.6

2 ✓ 5/1 ✓ 3/2 ✓ 3/3 ✓ 3-1/3 ✓ -7/2 ✓ -5/1 ✓ 2/1 ✓ -6/1 ✓ 1 ✓

3 ✓ 3/1 ✓ — 2/1 ✓ — -2/1 ✓ — 1/1 ✓ — 3 ✓

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12h.

B .65 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
1 0 9.2-9.2
1 9.3-9.9

12h

B .65 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
47.R 0 0

13h.

B .65 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F .
6.0-6.3 0 1 4 1 1 2 9.5-9.8
9 1 9.1-9.2

13h.

B .65 . 7 . 7.5 . 8 . 8.5 . 8.8 . 8.9 . 9 . F . .
1 1 2
1

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
2 0/1 10/2 6/3 -1/1 -2/2 – – 2/2 4

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
1 – 0/1 – 1/2 – – 2/2 2/1 –

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14 hr.

B	.65	.7	.75	.8	.85	.88	.89	.9	.F	.
	1		5	4	2	2			92-95	
			3		4	2			95-10.1	
						3				

14 hr.

B	.65	.7	.75	.8	.85	.88	.89	.9	.F	.
	53-R	1	0	5			5	1	9.1-9.4	
									9.1-9.5	

15 hr.

B	.65	.7	.75	.8	.85	.88	.89	.9	.F	.
6.0-5.8	1	4	4		4	5				
		3			2					
		0			4					
					2					
					6					
					5					

15 hr.

B	.65	.7	.75	.8	.85	.88	.89	.9	.F	.
		2		2		2		0	9.5-9.3	
								2		

✓ 1	✓ 1-1 / 2	✓ 7 / 3	✓ 12 / 3	✓ 4 / 1	✓ 29 / 8	✓ 7-5 / 4	✓ –	✓ –	✓ 2	✓ 1	✓ –	✓ -3 / 2	✓ 0 / 1	✓ 5 / 1	✓ 2 / 1	✓ –	✓ 5-2 / 2	✓ 1-2 / 3	✓ 3	

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+69° +7.0°

16h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	1			3	0	0	2	1	9.5-10.1
					0	5			9.4-9.8
									9.4-10.2
									9.3-9.4

16h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	2			2	2				9.1-9.4
				1					9.1-9.5
									9.4-9.5

17h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
	9	1	2		1			2	
	0	2			3			1	
	2								

✓	12/4 ✓	3/2 ✓	2/1 ✓	-3/1 ✓	3-1/4 ✓	5/2 ✓	2/1 ✓	4/3 ✓	4 ✓

17h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F.
				2	1				9.2-9.5
									9.4-10.0

✓	2/1 ✓	✓	✓	2-3/3 ✓	3/2 ✓	✓	✓	✓	5 ✓

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18 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	1			4	1	3	4	3	9.2-9.6	
				0	3			1	9.1-9.1	
				0						

18 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	2		1	3	9			2	9.2-10.0	
									9.4-10.2	
									9.1-9.7	
									9.4-9.7	
									9.1-9.2	

19 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
38.R	1			5	3			3	9.3-9.3	
								3		
								2		

19 h.

B	6.5	.7	.75	.8	.85	.88	.89	.9	F	
	1			7		3		2	9.1-9.2	

✓ 1 | 1-1 ✓ / 2 | ✓ | ✓ | -9 ✓ / 4 | 4-3 ✓ / 3 | 3 ✓ / 1 | 4 ✓ / 1 | 11-1 ✓ / 5 | 3 ✓ | ✓ | 2-1 ✓ / 2 | ✓ | 8 ✓ / 2 | 3 ✓ / 1 | 3-9 ✓ / 2 | ✓ | ✓ | 4 / 2 | 6 ✓

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20 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F .

2 2 1

1

1

20 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

0 1 ~~0~~ 0 3 9.3-9.4

5 2 9.4-9.4

3

21 h.

B 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

3.0-R 3 ~~2~~ 2 2 5 0

4 3

10

21 h.

B . 65 . 7 . 75 . 8 . 85 . 88 . 89 . 9 . F . .

4 5

3

4

✓ 1 ✓ 3-6 / 3 ✓ 2 / 1 ✓ 13-2 / 3 ✓ 5 / 1 ✓ -2 / 1 ✓ ✓ ✓ 3 / 4 ✓

✓ ✓ ✓ 8-3 / 4 ✓ 11-3 / 4 ✓ 2 / 2 ✓ -3 / 1 ✓ ✓ ✓ 2 ✓

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22h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.2-6.2		2	6	4	2					
		2		0	3					
		6			1					

22h

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.0-R			1	4		1		3		9.2-9.6
			1					1		9.2-9.4
			0							9.2-9.4

23h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.2-5.6		1	0	0	3		3	1		9.2-9.1
			3	1	2					
				3	0					

23h.

B	6.5	7.	7.5	8.	8.5	8.8	8.9	9.	F.	
6.0-5.6				3	2	0				9.2-9.2
6.0-6.1					2					9.3-9.6
										9.4-9.8
										9.3-9.5

$\overset{\checkmark}{2}\ \overset{\checkmark}{-}\ \overset{\checkmark}{\frac{10-1}{4}}\ \overset{\checkmark}{\frac{9}{3}}\ \overset{\checkmark}{\frac{8}{5}}\ \overset{\checkmark}{\frac{10-1}{6}}\ \overset{\checkmark}{-}\ \overset{\checkmark}{\frac{3}{1}}\ \overset{\checkmark}{\frac{1}{1}}\ 1^{\checkmark}$

$\overset{\checkmark}{3}\ \overset{\checkmark}{-}\ \overset{\checkmark}{-}\ \overset{\checkmark}{\frac{1-1}{3}}\ \overset{\checkmark}{\frac{-7}{2}}\ \overset{\checkmark}{\frac{2-2}{2}}\ \overset{\checkmark}{\frac{-1}{2}}\ \overset{\checkmark}{-}\ \overset{\checkmark}{\frac{3-1}{2}}\ 7^{\checkmark}$

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