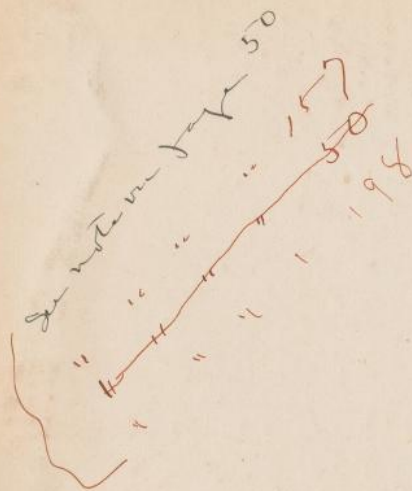


KG  
11366  
v.769

Jup. Ecl. & Var. Stars. No. 6.

*Times and City of Measures.*



























Copy of measures of Group A	} Set I	1-11
" " " " " B		13-40
" " " " " C		41-60
" " " " " W. Helphini		62-142
" " " " " Group D Set I		144-154
" " " " " E " "		155-175

Copied in by R.W.L.  
from Book 7.

C 8923. Feb. 27, 1896. Jup. Ec. II Re

				1	2	3			
2	15	34	00	9.5	4.6	4.9	9.2	9.4	.3
3	15	34	08	7.8	4.5	3.3	7.6	7.7	.2
4	15	34	16	7.3	4.8	2.5	6.8	7.0	.5
5	15	34	24	6.8	4.4	2.4	6.7	6.8	.1
6	15	34	32	7.0	4.9	2.1	6.4	6.7	.6
7	15	34	40	6.7	4.6	2.1	6.4	6.6	.3
8	15	34	49	5.5	3.8	1.7	6.0	5.8	.5
9	15	34	57	5.8	3.9	1.9	6.2	6.0	.4
10	15	35	05	5.8	3.7	2.1	6.4	6.1	.6
11	15	35	13	5.8	<del>4.1</del> 3.8	<del>1.4</del> 2.0	6.3	6.0	.7
12	15	35	21	5.3	4.0	1.3	5.6	5.4	.3
13	15	35	29	5.2	4.3	.9	5.2	5.2	.0
14	15	35	37	5.2	4.1	1.1	5.4	5.3	.2
15	15	35	45	5.5	4.2	1.3	5.6	5.6	.1
16	15	35	53	5.0	3.9	1.1	5.4	5.2	.4
17	15	36	01	<del>4.7</del> 4.2	<del>4.3</del> 3.4	<del>.8</del> .4	4.7	4.7	.9
18	15	36	09	4.7	4.6	.1	4.4	4.6	.3
19	15	36	17	4.5	4.3	.2	4.5	4.5	.0
20	15	36	25	4.6	4.3	.3	4.6	4.6	.0
21	15	36	33	4.4	4.3	.1	4.4	4.4	.0
22	15	36	42	4.6	4.3	.3	4.6	4.6	.0
23	15	36	50	4.7	4.3	.4	4.7	4.7	.0
24	15	36	58	4.4	4.6	.2	4.1	4.2	.3
25	15	37	06	4.6	4.3	.3	4.6	4.6	.0
26	15	37	14	3.9	3.8	.1	4.4	4.2	.5

Sum

mean

106.3  
4.23

6 pr  
4.5

+ 3.1 + 26 + 26  
- 40 - 45 - 3.6  
25 + 7.1 25 + 6.2  
± 2.8 ± 2.5

Those in red ink remeasured by Thibault.



Copied in by R.W.L.  
from Book 7.

C 8929. March 5, 1896. Jup. Ec. II Re.

There is no record of the signals used. W in marking assumed correct.

4	18	09	22	8.8	3.3	5.5	8.7	8.8	.1
5	18	09	30	7.3	3.2	4.1	7.3	7.3	.0
6	18	09	38	<del>7.6</del> 8.2	3.0	<del>4.6</del> 5.2	7.8	7.7	.2
7	18	09	46	6.6	3.0	3.6	6.8	6.7	.2
8	18	09	54	<del>6.5</del> 5.5	2.6	<del>3.9</del> 2.9	7.1	6.8	.6
9	18	10	02	6.0	2.9	3.1	6.3	6.2	.3
10	18	10	10	6.0	3.3	2.7	5.9	6.0	.1
11	18	10	18	<del>4.7</del> 5.3	<del>4.1</del> 3.8	<del>1.2</del> 1.5	4.4	4.8	.6 <sup>9</sup>
12	18	10	26	5.1	3.0	2.1	5.3	5.2	.2
13	18	10	34	4.8	2.7	2.1	5.3	5.0	.5
14	18	10	42	<del>4.4</del> 5.0	3.0	<del>1.4</del> 1.7	4.6	4.5	.2
15	18	10	50	5.0	3.3	1.7	4.9	5.0	.1
16	18	10	58	<del>4.8</del> 5.1	<del>3.3</del> 3.4	<del>1.5</del> 1.7	4.7	4.8	.4
17	18	11	06	<del>4.8</del> 5.1	3.4	1.4	4.9	5.0	.2
18	18	11	14	4.2	3.2	1.0	4.2	4.2	.0
19	18	11	22	4.0	3.5	.5	3.7	3.8	.3
20	18	11	30	3.8	3.0	.8	4.0	3.9	.2
21	18	11	38	4.3	3.4	.9	4.1	4.2	.2
22	18	11	46	4.2	3.0	1.2	4.4	4.3	.2
23	18	11	54	4.0	3.3	.7	3.9	4.0	.1
24	18	12	02	3.8	3.4	.4	3.6	3.7	.2
25	18	12	10	<del>4.3</del> 4.4	<del>3.7</del> 3.7	<del>3.5</del> 3.7	3.9	4.2	.5
26	18	12	18	3.7	3.2	.5	3.7	3.7	.0
27	18	12	26	3.2	2.9	.3	3.5	3.4	.3
28	18	12	34	<del>3.8</del> 3.8	3.3	.5	3.7	3.8	.1

Sum 79.2  
Mean 3.2

3.8 25 + 2.9  
- 2.9  
+ 5.8  
± .23

Those in red ink remeasured by Shibault.

Correction for Bond 394 = - 2.6 not + 2.6.  
Corrected in red March 23, 1903. W.R.C.



Copied in by R.W.L.  
from Book 7.

C 8962 March 17, 1896. Jup. Ec I Re.

Correction for Band 394 = -2.6 not +2.6.  
Corrected in red March 23, 1903. W.R.C.

8	12	54	39 <sup>4</sup>	8.2	4.7	3.5	8.8 <sup>3</sup>	8.8 <sup>2</sup> ✓	.2	-1
9	12	54	48 <sup>3</sup>	8.2	5.2	3.0	7.8 <sup>8</sup>	8.0✓	.3	+4
10	12	54	57 <sup>2</sup>	7.2	5.2	2.0	6.9 <sup>8</sup>	7.0✓	.3	+4
11	12	55	06 <sup>1</sup>	7.0	5.0	2.0	6.9 <sup>8</sup>	7.0✓	.1	+2
12	12	55	15 <sup>0</sup>	7.2	4.9	2.3	7.7 <sup>1</sup>	7.2✓	.0	+1
13	12	55	24 <sup>19</sup>	7.0	5.0	2.0	6.9 <sup>8</sup>	7.0✓	.1	+2
14	12	55	33 <sup>28</sup>	6.8	4.7	1.7 <sup>2</sup>	6.9 <sup>8</sup>	6.8✓	.8 <sup>2</sup>	-1
15	12	55	42 <sup>37</sup>	6.6	5.1	1.5	6.4 <sup>3</sup>	6.5✓	.2	+3
16	12	55	52 <sup>47</sup>	6.6	5.5	1.3	6.7 <sup>6</sup>	6.6✓	.4 <sup>1</sup>	0
17	12	56	01 <sup>56</sup>	5.8	4.4	1.4	6.3 <sup>2</sup>	6.0✓	.5 <sup>2</sup>	-4
18	12	56	10 <sup>05</sup>	5.9	4.7	1.2	6.1 <sup>0</sup>	6.0✓	.4 <sup>2</sup>	-1
19	12	56	19 <sup>14</sup>	5.7	4.7	1.0	5.9 <sup>8</sup>	5.8✓	.2	-1
20	12	56	28 <sup>23</sup>	5.8	4.6	1.2	6.1 <sup>0</sup>	6.0✓	.3	-2
21	12	56	37 <sup>2</sup>	5.9	4.7	1.2	6.1 <sup>0</sup>	6.0✓	.2	-1
22	12	56	46 <sup>11</sup>	5.6	5.1	.5	5.4 <sup>3</sup>	5.5✓	.2	+3
23	12	56	55 <sup>0</sup>	5.2	4.8	.4	5.3 <sup>2</sup>	5.2✓	.1	0
24	12	57	04 <sup>59</sup>	5.7	5.3	.4	5.3 <sup>2</sup>	5.5✓	.4	+5
25	12	57	14 <sup>09</sup>	5.3	5.2	.1	5.0 <sup>4</sup>	5.2✓	.3	+4
26	12	57	23 <sup>18</sup>	5.7	5.0	.7	5.6 <sup>5</sup>	5.6✓	.1	+2
27	12	57	32 <sup>27</sup>	5.3	4.8	.5	5.4 <sup>3</sup>	5.4✓	.4 <sup>1</sup>	0
28	12	57	41 <sup>36</sup>	5.4	4.6	.8✓	5.1 <sup>8</sup>	5.6✓	.3 <sup>5</sup>	-4
29	12	57	50 <sup>45</sup>	5.0	4.9✓	.1✓	5.1 <sup>8</sup>	5.8✓	.0	+1
30	12	57	59 <sup>5</sup>	5.6	4.7	.4	5.5 <sup>4</sup>	5.4✓	.2	-1
31	12	58	08 <sup>3</sup>	5.0	4.5	.5	5.4 <sup>7</sup>	5.2✓	.4	-3
32	12	58	17 <sup>2</sup>	5.2	4.3	.9	5.8 <sup>9</sup>	5.2✓	.6	-5

Sum  
Mean

121.4  
123.5  
4.9

1 53<sup>2</sup>  
53  
+ 2.2  
- 3.3  
2.5 + 5.5  
± 2.2

Those in red ink remeasured by Shibault.



Copied in by R.W.L. from Book 7.

C 11018. Feb. 26, 1898. Jup. Ec. I Dis.

10									
11	21	45	34.0	5.4	4.3	1.1	5.3	5.4 ✓	<del>1</del> .1
12	21	45	44.0	5.3	4.6	.7	4.9	5.2 ✓	<del>6</del> .4
13	21	45	54.0	5.0	4.7	.3	4.5	4.8 ✓	.5
14	21	46	04.0	5.2	4.4	.8	5.0	5.1 ✓	.2
15	21	46	14.0	5.2	4.1	1.1	5.3	5.2 ✓	.1
16	21	46	24.0	<del>6.0</del> 4.8	3.8	<del>7.0</del> 1.0	5.2	5.0 ✓	.4
17	21	46	34.0	5.5	3.6	1.9	6.1	5.8 ✓	.6
18	21	46	44.0	5.8	4.2	1.6	5.8	5.8 ✓	.0
19	21	46	54.0	5.4	4.2	1.2	5.4	5.4 ✓	.0
20	21	47	04.0	5.1	4.3	.8	5.0	5.0 ✓	.1
21	21	47	14.0	5.4	4.3	1.1	5.3	5.4 ✓	.1
22	21	47	24.0	5.7	4.3	1.4	5.6	5.6 ✓	.1
23	21	47	34.0	<del>5.8</del> 5.7	4.1	<del>1.7</del> 1.0	5.9	5.8 ✓	.1
24	21	47	44.0	6.2	4.4	1.8	6.0	6.1 ✓	.2
25	21	47	54.0	6.1	3.9	2.2	6.4	6.2 ✓	.3
26	21	48	04.0	5.6	3.8	1.8	6.0	5.8 ✓	.4
27	21	48	14.0	6.0	3.8	2.2	6.4	6.2 ✓	.4
28	21	48	24.0	<del>6.5</del> 7.3	4.7	<del>1.8</del> 2.6	6.8	7.0 ✓	.5
29	21	48	34.0	<del>7.1</del> 5.6	4.6	<del>2.5</del> 1.0	6.7	6.9 ✓	.4
30	21	48	44.0	6.6	4.2	2.4	6.6	6.6 ✓	.0
31	21	48	54.0	7.4	4.4	3.0	7.2	7.3 ✓	.2
32	21	49	04.0	7.2	4.6	2.6	6.8	7.0 ✓	.4
33	21	49	14.0	7.7	4.2	3.5	7.7	7.7 ✓	.0
34	21	49	24.0	-	-	-			
Sum				97.5					+ 3.2
Mean				3.9					- 2.3
				4.2					<del>23</del> + 5.5
									± .24

Those in red ink remeasured by Shibault.



Copied in by R.W.L. from Book 7.

C 11028. Feb. 28, 1898. Jup. Ec II Dis.

8	14	57	36	5.4	5.3	.1	5.5	5.4 ✓	.1
9	14	57	46	5.5	5.4	.1	5.5	5.5 ✓	.0
10	14	57	56	5.2	<del>4.7</del> <sup>5.2</sup>	<del>.5</del> <sup>.0</sup>	5.4	5.3 ✓	.7 <sup>.2</sup>
11	14	58	06	5.4	<del>5.5</del> <sup>5.3</sup>	<del>.1</del> <sup>.0</sup>	5.3	5.4 ✓	.1
12	14	58	16	5.3	<del>4.8</del> <sup>5.3</sup>	<del>.5</del> <sup>.0</sup>	5.4	5.4 ✓	.6 <sup>.1</sup>
13	14	58	26	5.5	<del>5.6</del> <sup>5.3</sup>	<del>.2</del> <sup>.2</sup>	5.6	5.6 ✓ <sup>.20</sup>	.2 <sup>.1</sup>
14	14	58	36	5.4	5.2	.2	5.6	5.5 ✓	.2
15	14	58	46	5.7	5.3	.4	5.8	5.8 ✓	.1
16	14	58	56	5.4	5.2	.2	5.6	5.5 ✓	.2
17	14	59	06	<del>5.6</del> <sup>5.6</sup>	5.4	.4	5.6	5.6 ✓	.0
18	14	59	16	<del>5.2</del> <sup>5.6</sup>	5.4	.2	5.6	5.6 ✓	.0
19	14	59	26	<del>5.8</del> <sup>6.2</sup>	5.4	.4	6.2	6.2 ✓	.0
20	14	59	36	<del>5.3</del> <sup>5.5</sup>	5.1	.2	5.8	5.6 ✓	.3
21	14	59	46	6.5	5.4	1.1	6.5	6.5 ✓	.0
22	14	59	56	6.2	<del>4.8</del> <sup>5.0</sup>	1.4	6.8	6.5 ✓	.6 <sup>.4</sup>
23	15	00	06	6.1	5.2	.9	6.3	6.2 ✓	.2
24	15	00	16	<del>7.3</del> <sup>7.2</sup>	5.6	1.7	7.0	7.1 ✓	.2
25	15	00	26	6.9	5.7	1.2	6.7	6.8 ✓	.3
26	15	00	36	7.2	5.7	1.5	6.9	7.0 ✓	.3
27	15	00	46	<del>8.0</del> <sup>7.7</sup>	5.2	2.8	7.9	7.8 ✓	.2
28	15	00	56	<del>5.9</del> <sup>7.6</sup>	5.6	.3	7.4	7.5 ✓	.2
29	15	01	06	7.7	5.6	2.1	7.5	7.6 ✓	.2
30	15	01	16	8.3	5.7	2.6	8.0	8.2 ✓	.3
31	15	01	26	6.3	5.6	.7	8.0	8.1 ✓	.2
32	15	01	36	5.5	5.4	.1	8.6	8.8 ✓	.0

Sum 134.7  
Mean 5.4

+1.8  
-2.1  
25 +3.9  
±.16

Those in red ink remeasured by Shibault



Copied in by R.W.L. from Book 7.

C 110 29. Feb. 28, 1898. Jup Ec. I dis.

	G.M.T.							
11	16	13	24	7.0	6.5	.5	7.1	7.0 <sup>✓</sup>
12	16	13	34	7.2	6.5	.7	7.3	7.2 <sup>✓</sup>
13	16	13	44	7.4	7.0 <sup>6.9</sup>	.4 <sup>5</sup>	7.1	7.2 <sup>✓</sup>
14	16	13	54	7.5	6.4 <sup>6.4</sup>	1.1	7.7	7.6 <sup>✓</sup>
15	16	<del>14</del>	04	7.6	6.9	.7	7.3	7.4 <sup>✓</sup>
16	16	14	14	7.6	7.0	.6	7.2	7.4 <sup>✓</sup>
17	16	14	24	7.5	6.8	.7	7.3	7.4 <sup>✓</sup>
18	16	14	34	7.1	6.8	.3	6.9	7.0 <sup>✓</sup>
19	16	14	44	7.2	6.7	.5	7.1	7.2 <sup>✓</sup>
20	16	14	54	7.2 <sup>7.2</sup>	5.7 <sup>5.8</sup>	1.5 <sup>1.4</sup>	8.0	7.6 <sup>✓</sup>
21	16	15	04	6.8	6.6	.2	6.8	6.8 <sup>✓</sup>
22	16	15	14	7.3	6.6	.7	7.3	7.3 <sup>✓</sup>
23	16	15	24	6.9	6.8	.1	6.7	6.8 <sup>✓</sup>
24	16	15	34	7.3	6.4	.9	7.5	7.4 <sup>✓</sup>
25	16	15	44	7.5	6.6	.9	7.5	7.5 <sup>✓</sup>
26	16	15	54	7.5	6.2	1.3	7.9	7.7 <sup>✓</sup>
27	16	16	04	7.7	6.5	1.2	7.8	7.8 <sup>✓</sup>
28	16	16	14	7.4	6.7	.7	7.3	7.4 <sup>✓</sup>
29	16	16	24	7.5	6.4	1.1	7.7	7.6 <sup>✓</sup>
30	16	16	34	7.8	6.4	1.4	8.0	7.9 <sup>✓</sup>
31	16	16	44	7.8	7.0	.8	7.4	7.6 <sup>✓</sup>
32	16	16	54	7.8	6.7	1.1	7.7	7.8 <sup>✓</sup>
33	16	17	04	8.7	6.8	1.9	8.5	8.6 <sup>✓</sup>
34	16	17	14	—	—	—		
35	16	17	24	—	—	—		

Sum 1520  
Mean 6.6

+ 25  
- 23  
+ 48  
± .21

Those in red ink remeasured by Hibault.



Copied in by R.W.L. from Book 7.

C 11181. April 26, 1898. Jup. Ec II Re.

	G. M. T.									
7	14	24	10	8.3	2.8	5.5	8.3	83	<u>.1</u>	.0
8	14	24	20	7.4	3.0	4.4	7.2	73	<u>.1</u>	.2
9	14	24	30	6.5	3.0	3.5	6.3	64	<u>.1</u>	.2
10	14	24	40	5.8	3.0	2.8	5.6	57	<u>.1</u>	.2
11	14	24	50	5.9	2.2	3.7	6.5	62	<u>.7</u>	.6
12	14	25	00	5.8	3.0	2.8	5.6	57	<u>.1</u>	.2
13	14	25	10	4.8	2.6	2.2	5.0	49	<u>.3</u>	.2
14	14	25	20	5.3	3.0	2.3	5.1	52	<u>.1</u>	.2
15	14	25	30	5.4	2.2	3.2	6.0	57	<u>.7</u>	.6
16	14	25	40	5.2	2.8	2.4	5.2	52	<u>.1</u>	.0
17	14	25	50	5.0	2.7	2.3	5.1	50	<u>.2</u>	.1
18	14	26	00	5.1	2.8	2.3	5.1	51	<u>.1</u>	.0
19	14	26	10	5.2	3.8	1.4	4.2	47	<u>.9</u>	1.0
20	14	26	20	3.7	2.4	1.3	4.1	39	<u>.5</u>	.4
21	14	26	30	4.7	3.3	1.4	4.2	44	<u>.4</u>	.5
22	14	26	40	4.2	2.5	1.7	4.5	44	<u>.4</u>	.3
23	14	26	50	4.0	2.8	1.2	4.0	40	<u>.1</u>	.0
24	14	27	00	4.8	3.2	1.6	4.4	46	<u>.3</u>	.4
25	14	27	10	4.3	2.5	1.8	4.6	44	<u>.4</u>	.3
26	14	27	20	4.3	2.8	1.5	4.3	43	<u>.1</u>	.0
27	14	27	30	4.0	2.0	2.0	4.8	44	<u>.9</u>	.8
28	14	27	40	3.8	3.0	.8	3.6	37	<u>.1</u>	.2
29	14	27	50	3.6	2.7	.9	3.7	36	<u>.2</u>	.1
30	14	28	00	3.5	2.5	1.0	3.8	36	<u>.4</u>	.3
31	14	28	10	4.2	2.4	1.8	4.6	44	<u>.5</u>	.4
32	14	28	20	4.1	2.9	1.2	4.0	40	<u>.0</u>	.1

Sum  
Mean71.9 ✓  
2.9 2.8 ✓26 17.5 128 1410  
899 4.1  
204 4.4+ 3.2  
- 4.1  
26 47.3  
± 2.8



Copied in by R.W.L. from Book 7.

C 11756 Feb. 4, 1899. Jap. Ec II Dis

							431	
13	19	00	48	2.2	2.6	.4	2.3	2.2 ✓ .1
14	19	00	58	2.2	2.8	.6	2.1	2.2 ✓ .1
15	19	01	08	2.6	2.4	.2	2.9	2.8 ✓ .3
16	19	01	18	2.2	2.2	.0	2.7	2.4 ✓ .5
17	19	01	28	2.3	2.1	.2	2.9	2.6 ✓ .6
18	19	01	38	3.8	3.2	.6	3.3	3.6 ✓ .5
19	19	01	48	2.5	1.8	.7	3.4	3.0 ✓ .9
20	19	01	58	0.8	1.1	.3	2.4	1.6 ✓ 1.6
40) 21	19	02	08	4.2	3.3	.9	3.6	3.9 ✓ .6
22	19	02	18	4.3	3.2	1.1	3.8	4.0 ✓ .5
23	19	02	28	3.3	3.0	.3	3.0	3.2 ✓ .3
24	19	02	38	4.7	2.8	1.9	4.6	4.6 ✓ .1
25	19	02	48	5.3	2.4	2.9	5.6	5.4 ✓ .3
26	19	02	58	2.5	3.0	.5	2.2	2.4 ✓ .3
27	19	03	08	4.0	2.4	1.6	4.3	4.2 ✓ .3
28	19	03	18	5.7	3.3	2.4	5.1	5.4 ✓ .6
29	19	03	28	4.6	3.4	1.2	3.9	4.2 ✓ .7
30	19	03	38	4.0	2.2	1.8	4.5	4.2 ✓ .5
50) 31	19	03	48	6.5	3.2	3.3	6.0	6.2 ✓ .5
32	19	03	58	6.5	3.0	3.5	6.2	6.4 ✓ .3
33	19	04	08	7.2	2.0	5.2	7.9	7.8 ✓ .7
34	19	04	18	4.0	3.0	1.0	3.7	3.8 ✓ .3
35	19	04	28	7.6	4.2	3.4	6.1	6.8 ✓ 1.5
36	19	04	38	8.4	3.2	5.2	7.9	8.2 ✓ .5
37	19	04	48	—	—	—		
Sum				65.8				
Mean				2.7				
								+6.8
								-5.8
								24 / 12.6
								±.52



Copied in by R.W.L. from Book 7.

C 11758 Feb. 8, 1899. Jup. Ec I Dio.

	G.M.T.											
16	19	01	34	<del>3.5</del> 4.0	<del>0.5</del>							
17	19	01	44	4.0 2.8	1.2	3.0	3.2		.6	.7	.5	
18	19	01	54	3.0 3.8	.8	2.7	2.8		.4	.3		
19	19	01	04	3.6 3.8	.2	3.3	3.4	$\frac{1.2}{3.2}$	.4	.3		
20	19	02	04	3.3 3.2	.1	3.6	3.4		.2	.3		
21	19	02	14	<del>4.1</del> 3.5	<del>.6</del>	4.1	4.1		.6	.7		
22	19	02	24	3.1 2.8	.3				.0	.1		
23	19	02	34	4.5 3.4	1.1	4.6	4.6		.4	.5		
24	19	02	44	4.2 3.0	1.2	4.7	4.4		.1	.2		
25	19	02	54	<del>4.2</del> 3.3	<del>.4</del>	4.4	4.3		.2	.1		
26	19	03	04	4.4 3.6	.8	4.3	4.4		.3	.2		
27	19	03	14	4.6 3.7	.9	4.4	4.5		.0	.1		
28	19	03	24	5.0 3.4	1.6	5.1	5.0		.1	.0		
29	19	03	34	5.0 3.5	1.5	5.0	5.0		.9	.8		
30	19	03	44	<del>5.2</del> 4.3	<del>.9</del>	4.6	5.0		.2	.1		
31	19	03	54	5.3 3.6	1.7	5.2	5.2		.6	.7		
32	19	03	04	4.3 2.8	1.5	5.0	4.6		.8	.7		
33	19	04	04	<del>5.2</del> 3.9	<del>1.3</del>	4.8	5.0		.1	.0		
34	19	04	14	5.4 3.5	1.9	5.4	5.4		.6	.7		
35	19	04	24	<del>5.3</del> 3.6	<del>1.7</del>	5.2	5.2		.2	.3		
36	19	04	34	5.2 3.2	2.0	5.5	5.4		.2	.3		
37	19	04	44	5.8 3.2	2.6	6.1	6.0		.3	.2		
38	19	04	54	6.0 3.7	2.3	5.8	5.9		.8	.7		
39	19	05	04	<del>7.2</del> 3.8	<del>3.4</del>	6.9	7.0		.1	.2		
40	19	05	14	6.8 4.2	2.6	8.4	8.3		.2	.3		
	19	05	24	8.2 3.3	4.9	9.5	9.4		.7	.8		
	19	05	34	9.2 3.2	6.0	10.2	9.8					

Sum

Mean

870  
84.9

3.4 3.5

Those in green from Bk 14, 127  
Those in red ink remeasured by Shibault
$$\begin{array}{r}
 + 5.1 \\
 - 2.7 \\
 \hline
 2.4
 \end{array}
 \quad
 \begin{array}{r}
 + 3.7 \\
 - 3.8 \\
 \hline
 -0.1
 \end{array}
 \quad
 \begin{array}{r}
 + 7.5 \\
 \hline
 7.5
 \end{array}$$



Copied in by R.W.L. from Book 7.

C 11775 Feb. 15, 1899. Jup. Ec. I Dia

16	20	54	58	4.2	4.4	.2	4.4	4.3 <sub>v</sub>	.2	
17	20	55	08	4.1	3.3	.8	5.4	4.8 <sub>v</sub>	1.3	
18	20	55	18	4.7	4.7	.4	4.6	4.6 <sub>v</sub>	.3 <sup>1</sup>	
19	20	55	28	4.4	4.2	.2	4.8	4.6 <sub>v</sub>	.4	5/227
20	20	55	38	4.5	4.7	.2	4.4	4.4 <sub>v</sub>	.1	4.5
21	20	55	48	5.0	4.6	.4	5.0	5.0 <sub>v</sub>	.0	
22	20	55	58	5.2	4.6	.6	5.2	5.2 <sub>v</sub>	.0	
23	20	56	08	4.8	4.6	.2	4.8	4.8 <sub>v</sub>	.0	
24	20	56	18	4.8	4.8	.0	4.6	4.7 <sub>v</sub>	.2	
25	20	56	28	5.2	5.1	.1	4.7	5.0 <sub>v</sub>	.5	
26	20	56	38	5.2	4.6	.6	5.2	5.2 <sub>v</sub>	.0	
27	20	56	48	5.0	4.4	.6	5.2	5.1 <sub>v</sub>	.5 <sup>2</sup>	
28	20	56	58	5.3	4.6	.7	5.3	5.3 <sub>v</sub>	.0	
29	20	57	08	5.7	5.0	.7	5.3	5.5 <sub>v</sub>	.4	
30	20	57	18	5.5	4.8	.7	5.3	5.4 <sub>v</sub>	.5 <sup>2</sup>	
31	20	57	28	5.8	4.8	1.0	5.6	5.7 <sub>v</sub>	.2	
32	20	57	38	5.8	5.1	.7	5.3	5.6 <sub>v</sub>	.5	
33	20	57	48	6.3	4.8	1.5	6.1	6.2 <sub>v</sub>	.2	
34	20	57	58	6.5	4.8	1.7	6.3	6.4 <sub>v</sub>	.2	
35	20	58	08	6.4	4.8	1.6	6.2	6.3 <sub>v</sub>	.2	
36	20	58	18	6.8	4.5	2.3	6.9	6.8 <sub>v</sub>	.1	
37	20	58	28	7.5	4.3	3.2	7.8	7.6 <sub>v</sub>	.3	
38	20	58	38	8.3	5.2	3.1	7.7	8.0 <sub>v</sub>	.6	
39	20	58	48	8.5	4.8	3.7	8.3	8.4 <sub>v</sub>	.2	
40	20	58	58	-	-	-	-	-	-	
Sum				111.7						
Mean				4.6						

Those in red ink remeasured by Shibault.



Copied in by R.W.L. from Book 7.

C 12034 July 14, 1899. Jup. Ec I Re.

15	4	14	56	<sup>2</sup> 31	8.6	6.4	2.2	8.4	8.5 <sup>v</sup>	.2	
	5	14	56	<sup>3</sup> 41	7.9	6.0	1.9	8.1	8.0 <sup>v</sup>	.2	
	6	14	56	<sup>4</sup> 51	7.6	5.8	1.8	8.0	7.8 <sup>v</sup>	.4	
	7	14	57	<sup>5</sup> 01	7.5	6.0	1.5	7.7	7.6 <sup>v</sup>	.2	
	8	14	57	<sup>0</sup> 11	7.3	5.8	1.5	7.7	7.5 <sup>v</sup>	.4	
	9	14	57	<sup>1</sup> 21	7.3	6.0	1.3	7.5	7.4 <sup>v</sup>	.2	
	10	14	57	<sup>2</sup> 31	6.7	6.3	.4	6.6	6.6 <sup>v</sup>	.1	
	11	14	57	<sup>3</sup> 41	6.7	6.4	.3	6.5	6.6 <sup>v</sup>	.2	
	12	14	57	<sup>4</sup> 51	6.6	6.4	.2	6.4	6.5 <sup>v</sup>	.2	
	13	14	58	<sup>5</sup> 01	6.7	6.3	.4	6.6	6.6 <sup>v</sup>	.1	
22	14	14	58	<sup>0</sup> 11	6.4	<sup>6.5</sup> 6.7	<sup>1</sup> .3 <sup>v</sup>	<sup>5.9</sup> 6.7	6.2 <sup>v</sup>	.5 <sup>3</sup>	
	15	14	58	<sup>1</sup> 21	5.9	6.1	.2	<sup>6.0</sup> 5.9	5.8 <sup>v</sup>	.1	
	16	14	58	<sup>2</sup> 31	6.0	6.3	.3	5.9	6.0 <sup>v</sup>	.1	
	17	14	58	<sup>3</sup> 41	6.0	6.0	.0 <sup>v</sup>	6.2	6.1 <sup>v</sup>	.2	
	18	14	58	<sup>4</sup> 51	5.8	<sup>6.7</sup> 6.4	<sup>4</sup> .6	5.6	5.7 <sup>v</sup>	.2 <sup>5</sup>	
	19	14	59	<sup>5</sup> 01	<sup>5.6</sup> 5.6	<sup>6.4</sup> 5.8	<sup>8</sup> .2	6.6	5.8 <sup>v</sup>	.4 <sup>2</sup>	
	20	14	59	<sup>0</sup> 11	<sup>6.0</sup> 6.7	<sup>6.7</sup> 6.6	<sup>7</sup> .1 <sup>-b</sup>	<sup>5.8</sup> 6.3	5.8 <sup>v</sup>	.4 <sup>5</sup>	
	21	No good	—	—	5.8	6.4	.6	5.6	(5.7) <sup>v</sup>	.2	
	22	different	14	59	<sup>1</sup> 21	5.4	6.3	.9	5.3	5.4 <sup>v</sup>	.1
	23		14	59	<sup>2</sup> 31	5.8	6.1	.3	5.9	5.8 <sup>v</sup>	.1
32	24		14	59	<sup>3</sup> 41	5.6	6.3	.7	5.5	5.6 <sup>v</sup>	.1
	25		14	59	<sup>4</sup> 51	5.6	6.4	.8	5.4	5.5 <sup>v</sup>	.2
	26	15	14	00	<sup>5</sup> 01	6.0	6.3	.3	5.9	6.0 <sup>v</sup>	.1
	27	11	14	00	<sup>0</sup> 11	5.7	5.8	.1	6.1	5.9 <sup>v</sup>	.4
	28	15	14	00	<sup>1</sup> 21	5.8	6.4	.6	5.6	5.7 <sup>v</sup>	.2
	29		14	00	<sup>2</sup> 31	5.8	6.1	.3	5.9	5.8 <sup>v</sup>	.1
	30		14	00	<sup>3</sup> 41	5.6	6.3	.7	5.5	5.6 <sup>v</sup>	.1
	31		14	00	<sup>4</sup> 51	5.6	6.4	.8	5.4	5.5 <sup>v</sup>	.2
	32		14	00	<sup>5</sup> 01	6.0	6.3	.3	5.9	6.0 <sup>v</sup>	.1
	33		14	00	<sup>0</sup> 11	5.7	5.8	.1	6.1	5.9 <sup>v</sup>	.4
39	34		14	00	<sup>1</sup> 21	5.8	6.4	.6	5.6	5.7 <sup>v</sup>	.2
	35		14	00	<sup>2</sup> 31	5.8	6.1	.3	5.9	5.8 <sup>v</sup>	.1
	36		14	00	<sup>3</sup> 41	5.6	6.3	.7	5.5	5.6 <sup>v</sup>	.1
	37		14	00	<sup>4</sup> 51	5.6	6.4	.8	5.4	5.5 <sup>v</sup>	.2
	38		14	00	<sup>5</sup> 01	6.0	6.3	.3	5.9	6.0 <sup>v</sup>	.1
	39		14	00	<sup>0</sup> 11	5.7	5.8	.1	6.1	5.9 <sup>v</sup>	.4
	40		14	00	<sup>1</sup> 21	5.8	6.4	.6	5.6	5.7 <sup>v</sup>	.2
	41		14	00	<sup>2</sup> 31	5.8	6.1	.3	5.9	5.8 <sup>v</sup>	.1
	42		14	00	<sup>3</sup> 41	5.6	6.3	.7	5.5	5.6 <sup>v</sup>	.1
	43		14	00	<sup>4</sup> 51	5.6	6.4	.8	5.4	5.5 <sup>v</sup>	.2

Cor. made Sept 1891

Sum  
Mean156.1  
155.3  
6.21489 162  
144  
48
$$\begin{array}{r}
 156.1 \\
 - 1489 \\
 \hline
 144 \\
 48 \\
 \hline
 155.3 \\
 \hline
 6.2
 \end{array}$$

Those in red ink remeasured by Thibault.





Copied in by R.W.L. from Book 7

C 4041 Oct. 8, 1891 Jup. Ec. II Re

12	15	47	48	3.9	3.9	0	4.4	4.2 <sup>v</sup>	$\frac{7.6}{12}$	.5
13	15	47	38	4.0	3.7	3	4.7	4.4 <sup>v</sup>	$\frac{4.4}{3}$	.7
14	15	47	28	<del>4.3</del> 4.4	<del>4.5</del> 4.3	.2	4.2	4.2 <sup>v</sup>	3	.1

The images on this plate are  
wrongly identified, consequently the  
times progress upwards instead of down  
as usual.

H.R.C.

29	15	44	48	6.7	7.0	1.1	6.3	6.4 <sup>v</sup>	.1
30	15	44	48	6.6 <sup>v</sup>	4.1	2.5	6.9 <sup>v</sup>	6.8 <sup>v</sup>	.3
31	15	44	38	6.7	4.6	2.1	6.5 <sup>v</sup>	6.6 <sup>v</sup>	.2
32	15	44	28	7.1	4.7	2.4	6.8 <sup>v</sup>	7.0 <sup>v</sup>	.3
33	15	44	18	7.3	4.9	2.4	6.8 <sup>v</sup>	7.0 <sup>v</sup>	.5 <sup>v</sup>
34	15	44	08	8.1	5.0	3.1	7.5 <sup>v</sup>	7.8 <sup>v</sup>	.6
35	15	43	58	8.1	4.7	3.4	7.8 <sup>v</sup>	8.0 <sup>v</sup>	.3
36	15	43	48	9.0	4.2	4.8	9.2 <sup>v</sup>	9.1 <sup>v</sup>	.2

Sum 1092<sup>v</sup>Mean 4.4<sup>v</sup>

Those in red ink remeasured by Lynn. Book 11, p33.

Remeasures of those marked  
with <sup>v</sup> may also be found  
there.



Copied in by R.W.L. from Book 7

C 4041 Oct. 8, 1891 Jup. Ec. II Re

12	15	47	48	3.9	3.9	0	4.4	4.2 <sup>v</sup>	$\frac{.5}{1.2}$
13	15	47	38	4.0	3.7	.3	4.7	4.4 <sup>v</sup>	$\frac{.7}{4.4}$
14	15	47	28	<del>4.3</del> 4.4	<del>4.5</del> 4.3	.2	4.2	4.2 <sup>v</sup>	.1
15	15	47	18	4.4	4.3	.1	4.5	4.4 <sup>v</sup>	.1
16	15	47	08	4.2	4.0	.2	4.6	4.4 <sup>v</sup>	$\frac{.4}{.4}$
17	15	46	58	4.5	4.2	.3	4.7	4.6 <sup>v</sup>	.2
18	15	46	48	4.9 <sup>v</sup>	4.9 <sup>v</sup>	.0	4.4	4.6 <sup>v</sup>	.5
19	15	46	38	<del>4.5</del> 3.9	4.2	.3	4.7	4.8 <sup>v</sup>	.2
20	15	46	28	4.4	4.3	.1	4.5	4.4 <sup>v</sup>	.1
21	15	46	18	4.5	3.5	1.0	4.5 <sup>v</sup> <del>5.5</del>	4.5 <sup>v</sup> <del>5.0</del>	.0 <sup>v</sup>
22	15	46	08	4.7	4.1	.6	5.0 <sup>v</sup>	4.8 <sup>v</sup>	.3
23	15	45	58	4.7	4.2	.5	4.9 <sup>v</sup>	4.8 <sup>v</sup>	.2
24	15	45	48	5.4	4.3	1.1	5.5 <sup>v</sup>	5.4 <sup>v</sup>	.1
25	15	45	38	5.5	3.8	1.7	6.1 <sup>v</sup>	5.8 <sup>v</sup>	.6
26	15	45	28	5.5	4.2	1.3	5.7 <sup>v</sup>	5.6 <sup>v</sup>	.2
27	15	45	18	6.1	5.0 <sup>v</sup>	1.4	5.5 <sup>v</sup>	5.8 <sup>v</sup>	.6
28	15	45	08	5.8	4.5	2.3	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.1 <sup>v</sup>
29	15	44	58	6.4 <sup>v</sup>	4.5 <sup>v</sup>	1.9	6.3 <sup>v</sup>	6.4 <sup>v</sup>	.1
30	15	44	48	5.9 <sup>v</sup>	4.1	2.5	6.9 <sup>v</sup>	6.8 <sup>v</sup>	.3
31	15	44	38	6.7	4.6	2.1	6.5 <sup>v</sup>	6.6 <sup>v</sup>	.2
32	15	44	28	7.1	4.7	2.4	6.8 <sup>v</sup>	7.0 <sup>v</sup>	.3
33	15	44	18	7.3	4.9	2.4	6.8 <sup>v</sup>	7.0 <sup>v</sup>	.5 <sup>v</sup>
34	15	44	08	8.1	5.0	3.1	7.5 <sup>v</sup>	7.8 <sup>v</sup>	.6
35	15	43	58	8.1	4.7	3.4	7.8 <sup>v</sup>	8.0 <sup>v</sup>	.3
36	15	43	48	9.0	4.2	4.8	9.2 <sup>v</sup>	9.1 <sup>v</sup>	.2

Sum 1092<sup>v</sup>Mean 4.4<sup>v</sup>

Those in red ink remeasured by Lynn. Book 11, p33.

Remeasures of those marked with <sup>v</sup> may also be found there.



Copied in by R.W.L. from Book 7

C 4054 Oct. 14, 1891. Jap. Ec. I. Re

14	14	53	04	6.8	7.5	.7	6.3 <sup>v</sup>	6.6 <sup>v</sup>	5
15	14	52	54	8.3	8.5	.2	6.8 <sup>v</sup>	7.6 <sup>v</sup>	15
16	14	52	44	9.4	9.0	.4	7.4 <sup>v</sup>	8.4 <sup>v</sup>	20
17	14	52	34	9.2	9.2	.2	7.2 <sup>v</sup>		

The images on this plate are wrongly identified, consequently the times progress upwards instead of down as usual.

A.R.C.

32	14	50	04	7.8	5.7	2.1	9.1 <sup>v</sup>	8.4 <sup>v</sup>	13
33	14	49	54	8.5	6.9	1.6	10.1 <sup>v</sup>	9.3 <sup>v</sup>	16
34	14	49	44	6.9 <sup>v</sup>	5.4 <sup>v</sup>	1.5	8.5 <sup>v</sup>	7.7 <sup>v</sup>	16
35	14	49	34	7.5	5.9	1.6	8.6 <sup>v</sup>	8.0 <sup>v</sup>	11
36	14	49	24	7.6 <sup>v</sup>	5.8	1.8	8.8 <sup>v</sup>	8.2 <sup>v</sup>	12
37	14	49	14	9.0	5.5	3.5	10.5 <sup>v</sup>	9.8 <sup>v</sup>	15
38	14	49	04	8.5	5.9	2.6	9.6 <sup>v</sup>	9.0 <sup>v</sup>	11

Sum 1393  
Mean 7.0

Variations in time of exposure of images make measures very bad.

Those in red ink remeasured by Lynn. Book 11, p.33. Remeasures of those marked with v may also be found there.



Copied in by R.W.L. from Book 7

C 4083 Oct. 21, 1891. Jap. Ec. I Re.

1	16	44	49	9.0	5.0	4.0	8.8 <sup>v</sup>	8.9 <sup>v</sup>	.2
2	16	44	59	8.5	5.0	3.5	8.3 <sup>v</sup>	8.4 <sup>v</sup>	.2
3	16	45	09	8.5 <sup>8.0<sup>v</sup></sup>	5.2	3.3	7.6 <sup>v</sup>	7.8 <sup>v</sup>	.4
4	16	45	19	6.9 <sup>v</sup>	5.3	1.6	6.4 <sup>v</sup>	6.6 <sup>v</sup>	.5
5	16	45	29	7.3	4.8	2.5	7.3 <sup>v</sup>	7.3 <sup>v</sup>	.0
6	16	45	39	7.1	4.7	2.4	7.2 <sup>v</sup>	7.2 <sup>v</sup>	.1
7	16	45	49	5.5 <sup>y</sup>	4.8 <sup>v</sup>	.7	5.5 <sup>v</sup>	5.5 <sup>v</sup>	.0
8	16	45	59	6.7 <sup>5.9<sup>v</sup></sup>	3.8	1.9	5.9 <sup>v</sup>	5.9 <sup>v</sup>	.0
9	16	46	09	5.9	5.0 <sup>v</sup>	.9	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.2
10	16	46	19	5.8	4.8	1.0	5.8 <sup>v</sup>	5.8 <sup>v</sup>	.0
11	16	46	29	5.6	4.7	.9	5.7 <sup>v</sup>	5.6 <sup>v</sup>	.1
12	16	46	39	5.4	4.0 <sup>v</sup>	1.4	6.2 <sup>v</sup>	5.8 <sup>v</sup>	.8
13	16	46	49	4.8	4.0	.8	4.9 <sup>v</sup>	4.8 <sup>v</sup>	.8
14	16	46	59	4.8	4.9	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.1
15	16	47	09	5.7 <sup>v</sup>	4.9	.8	5.6 <sup>v</sup>	5.6 <sup>v</sup>	.1
16	16	47	19	4.9	5.0	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.2
17	16	47	29	4.1 <sup>v</sup>	5.2	1.1	3.7 <sup>v</sup>	3.9 <sup>v</sup>	.4
18	16	47	39	5.5 <sup>4.7<sup>v</sup></sup>	4.5 <sup>v</sup>	1.0	5.0 <sup>v</sup>	4.8 <sup>v</sup>	.3
19	16	47	49	5.0	5.1	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.3
20	16	47	59	5.2	4.9	.3	5.1 <sup>v</sup>	5.2 <sup>v</sup>	.1
21	16	48	09	4.8	4.5	.3	5.1 <sup>v</sup>	5.0 <sup>v</sup>	.3
22	16	48	19	4.9	5.0 <sup>v</sup>	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.2
23	16	48	29	5.0	4.1 <sup>v</sup>	.9	5.7 <sup>v</sup>	5.4 <sup>v</sup>	.7
24	16	48	39	5.8	4.9	.9	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.1
25	16	48	49	4.4	4.9	.5	4.3 <sup>v</sup>	4.4 <sup>v</sup>	.1

Sum  
Mean1207<sup>v</sup>  
1200  
1190  
4.8<sup>v</sup>B | 641/42  
52  
121  
112

Those in red ink remeasured by Lynn. Book # 11, pp 33, 44. Remeasures of those marked with v may also be found there.



Copied in by R.W.L. from Book 7

C 4054 Oct. 14, 1891. Jup. Ec. I. Re

14	14	53	04	6.8	7.5	.7	6.3 <sup>v</sup>	6.6 <sup>v</sup>	5
15	14	52	54	8.3	8.5	.2	6.8 <sup>v</sup>	7.6 <sup>v</sup>	1.5
16	14	52	44	9.4	9.0	.4	7.4 <sup>v</sup>	8.4 <sup>v</sup>	2.0
17	14	52	34	9.0	9.2 <sup>v</sup>	1.2 <sup>v</sup>	6.8 <sup>v</sup>	7.9 <sup>v</sup>	2.2
18	14	52	24	7.2	8.0 <sup>v</sup>	.8	6.2 <sup>v</sup>	6.7 <sup>v</sup>	1.0
19	14	52	14	6.5	6.7	.2	6.5 <sup>v</sup>	6.6 <sup>v</sup>	.3
20	14	52	04	9.0	9.0	.0	7.0 <sup>v</sup>	8.0 <sup>v</sup>	2.0
21	14	51	54	—	—	—			
22	14	51	44	—	—	—			
23	14	51	34	7.0	8.0	1.0	6.0 <sup>v</sup>	6.5 <sup>v</sup>	1.0
24	14	51	24	7.7	7.9	.2	6.8 <sup>v</sup>	7.2 <sup>v</sup>	.9
25	14	51	14	5.9	5.8	.1	7.1 <sup>v</sup>	6.5 <sup>v</sup>	1.2
26	14	51	04	6.0	5.8	.2	7.2 <sup>v</sup>	6.6 <sup>v</sup>	1.2
27	14	50	54	7.8	7.8	.0	7.0 <sup>v</sup>	7.4 <sup>v</sup>	.8
28	14	50	44	—	—	—			
29	14	50	34	—	—	—			
30	14	50	24	5.9	4.1	—			
31	14	50	14	6.9	6.5	.4	7.4 <sup>v</sup>	7.2 <sup>v</sup>	.5
32	14	50	04	7.8	5.7	2.1	9.1 <sup>v</sup>	8.4 <sup>v</sup>	1.3
33	14	49	54	8.5	6.9 <sup>v</sup>	1.6	10.1 <sup>v</sup>	9.3 <sup>v</sup>	1.6
34	14	49	44	6.9 <sup>v</sup>	5.4 <sup>v</sup>	1.5	8.5 <sup>v</sup>	7.7 <sup>v</sup>	1.6
35	14	49	34	7.5	5.9	1.6	8.6 <sup>v</sup>	8.0 <sup>v</sup>	1.1
36	14	49	24	7.6 <sup>v</sup>	5.8	1.8	8.8 <sup>v</sup>	8.2 <sup>v</sup>	1.2
37	14	49	14	9.0	5.5	3.5	10.5 <sup>v</sup>	9.8 <sup>v</sup>	1.5
38	14	49	04	8.5	5.9	2.6	9.6 <sup>v</sup>	9.0 <sup>v</sup>	1.1

Sum 1393  
Mean 7.0

Variations in time of exposure  
of images make measures  
very bad.

Those in red ink remeasured by Lynn. Book 11, p. 33. Remeasures of those marked with v may also be found there.



Copied in by R.W.L. from Book 7

C 4083 Oct. 21, 1891. Jup. Ec. I Re.

1	16	44	49	9.0	5.0	4.0	8.8 <sup>v</sup>	8.9 <sup>v</sup>	.2
2	16	44	59	8.5	5.0	3.5	8.3 <sup>v</sup>	8.4 <sup>v</sup>	.2
3	16	45	09	8.5 <sup>8.0<sup>v</sup></sup>	5.2	3.3	7.6 <sup>v</sup>	7.8 <sup>v</sup>	.4
4	16	45	19	6.9 <sup>v</sup>	5.3	1.6	6.4 <sup>v</sup>	6.6 <sup>v</sup>	.5
5	16	45	29	7.3	4.8	2.5	7.3 <sup>v</sup>	7.3 <sup>v</sup>	.0
6	16	45	39	7.1	4.7	2.4	7.2 <sup>v</sup>	7.2 <sup>v</sup>	.1
7	16	45	49	5.5 <sup>v</sup>	4.8 <sup>v</sup>	.7	5.5 <sup>v</sup>	5.5 <sup>v</sup>	.0
8	16	45	59	6.7 <sup>5.9<sup>v</sup></sup>	3.8 <sup>4.8<sup>v</sup></sup>	2.9	5.9 <sup>v</sup>	5.9 <sup>v</sup>	.0
9	16	46	09	5.9	5.0 <sup>v</sup>	.9	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.2
10	16	46	19	5.8	4.8	1.0	5.8 <sup>v</sup>	5.8 <sup>v</sup>	.0
11	16	46	29	5.6	4.7	.9	5.7 <sup>v</sup>	5.6 <sup>v</sup>	.1
12	16	46	39	5.4	4.0 <sup>v</sup>	1.4	6.2 <sup>v</sup>	5.8 <sup>v</sup>	.8
13	16	46	49	4.8	4.0 <sup>4.7<sup>v</sup></sup>	.8	4.9 <sup>v</sup>	5.2 <sup>4.8<sup>v</sup></sup>	.8 <sup>1<sup>v</sup></sup>
14	16	46	59	4.8	4.9	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.1
15	16	47	09	5.7 <sup>v</sup>	4.9	.8	5.6 <sup>v</sup>	5.6 <sup>v</sup>	.1
16	16	47	19	4.9	5.0	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.2
17	16	47	29	4.1 <sup>v</sup>	5.2	1.1	3.7 <sup>v</sup>	3.9 <sup>v</sup>	.4
18	16	47	39	5.5 <sup>4.7<sup>v</sup></sup>	4.5 <sup>v</sup>	1.0	5.0 <sup>v</sup>	4.8 <sup>v</sup>	.3
19	16	47	49	5.0	5.1	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.3
20	16	47	59	5.2	4.9	.3	5.1 <sup>v</sup>	5.2 <sup>v</sup>	.1
21	16	48	09	4.8	4.5	.3	5.1 <sup>v</sup>	5.0 <sup>v</sup>	.3
22	16	48	19	4.9	5.0 <sup>v</sup>	.1	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.2
23	16	48	29	5.0	4.1 <sup>v</sup>	.9	5.7 <sup>v</sup>	5.4 <sup>v</sup>	.7
24	16	48	39	5.8	4.9	.9	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.1
25	16	48	49	4.4	4.9	.5	4.3 <sup>v</sup>	4.4 <sup>v</sup>	.1

Sum  
Mean1207<sup>v</sup>  
1200  
1190  
4.8<sup>v</sup>B) 641/48<sup>9</sup>  
52  
121  
117

Those in red ink remeasured by Lynn. Book # 11, pp 33, 44. Remeasures of those marked with v may also be found there.



Copied in by R.W.L. from Book 7.

C 5200 Dec. 3, 1892. Jup. Ec. I Re.

1	13	13	16	6.5	2.9	3.6	6.5	6.5 <sup>✓</sup>	.0
2		13	26	6.8	2.9	3.9	6.8 <sup>✓</sup>	6.8 <sup>✓</sup>	.0
3		13	36	6.6	3.1 <sup>2</sup>	3.4	6.3 <sup>✓</sup>	6.4 <sup>✓</sup>	.8 <sup>3</sup>
4		13	46	6.8	3.2 <sup>5</sup>	2.9	6.5 <sup>✓</sup>	6.6 <sup>✓</sup>	.3
5		13	56	6.5	2.5	4.0	6.9 <sup>✓</sup>	6.7 <sup>✓</sup>	.4
6		14	06	5.9	2.8	3.1	6.0 <sup>✓</sup>	6.0 <sup>✓</sup>	.1
7		14	16	5.4	3.3 <sup>✓</sup>	2.1	5.0 <sup>✓</sup>	5.2 <sup>✓</sup>	.4
8		14	26	5.9	3.0	2.9	5.3 <sup>✓</sup>	5.4 <sup>✓</sup>	.1
9		14	36	5.3 <sup>✓</sup>	3.0	2.3	5.2 <sup>✓</sup>	5.2 <sup>✓</sup>	.1
10		14	46	5.2	2.9	2.3	5.2 <sup>✓</sup>	5.2 <sup>✓</sup>	.0
11	13	14	56	5.1	3.4	2.2	5.1 <sup>✓</sup>	5.1 <sup>✓</sup>	.0
12		15	06	4.8	2.8	2.0	4.9 <sup>✓</sup>	4.8 <sup>✓</sup>	.1
13		15	16	4.6 <sup>✓</sup>	2.8	1.8	4.7 <sup>✓</sup>	4.6 <sup>✓</sup>	.1
14		15	26	4.3	3.2 <sup>✓</sup>	1.1	4.0 <sup>✓</sup>	4.2 <sup>✓</sup>	.3
15		15	36	4.8	2.3	2.5	5.4 <sup>✓</sup>	5.1 <sup>✓</sup>	.6
16		15	46	4.5	3.4	1.1	4.0 <sup>✓</sup>	4.2 <sup>✓</sup>	.8 <sup>5</sup>
17		15	56	4.3	3.0	1.3	4.2 <sup>✓</sup>	4.2 <sup>✓</sup>	.1
18		16	06	4.4	3.0 <sup>✓</sup>	1.4	4.3 <sup>✓</sup>	4.4 <sup>✓</sup>	.1
19		16	16	4.1	3.2	.9	3.8 <sup>✓</sup>	4.0 <sup>✓</sup>	.3
20		16	26	4.5	3.2	1.3	4.2 <sup>✓</sup>	4.4 <sup>✓</sup>	.3
21	13	16	36	crack in glass -			-	-	-
22		16	46	3.8	3.4	.4	3.3 <sup>✓</sup>	3.6 <sup>✓</sup>	.5
23		16	56	4.3	2.5	1.8	4.5 <sup>✓</sup>	4.8 <sup>✓</sup>	.4
24		17	06	3.9	2.7	1.2	4.1 <sup>✓</sup>	4.0 <sup>✓</sup>	.9 <sup>2</sup>
25	13	17	16	3.5	2.6	.9	3.8 <sup>✓</sup>	3.6 <sup>✓</sup>	.3

Sum

Mean

692.707<sup>✓</sup>  
677  
2.9<sup>✓</sup>

Those in red ink remeasured by Lynn - Book 11 pp 34, 44. Remeasures of those marked with \* may also be found there.



Copied in by RWT from Book 7.

17

C 6172 Nov. 3, 1893. Jup. Ec. II Dis.

11	15	29	04	4.8	3.0	1.8	4.6 <sup>v</sup>	4.7 <sup>v</sup>	.2
12		29	14	5.7	3.6 <sup>v</sup>	2.1	4.9 <sup>v</sup>	5.3 <sup>v</sup>	.8
13	8	29	24	<del>4.4</del> 5.5	<del>2.6</del> 3.2	2.3	5.1 <sup>v</sup>	5.3 <sup>v</sup>	<del>.4</del> .4
14		29	34	5.2	2.8	2.4	5.2 <sup>v</sup>	5.2 <sup>v</sup>	.0
15		29	44	5.4	2.8	2.6	5.4 <sup>v</sup>	5.4 <sup>v</sup>	.0
16		29	54	<del>5.0</del> 5.7	<del>2.2</del> 2.9		5.7 <sup>v</sup>	5.7 <sup>v</sup>	.0
17	15	30	04	5.9	2.5	3.4	6.2 <sup>v</sup>	6.0 <sup>v</sup>	.3
18		30	14	5.7	2.5	3.2	6.0 <sup>v</sup>	5.8 <sup>v</sup>	.3
19		30	24	5.3 <sup>v</sup>	2.9	2.4	5.2 <sup>v</sup>	5.2 <sup>v</sup>	.1
20		30	34	5.9 <sup>v</sup>	2.5	3.4	6.2 <sup>v</sup>	6.0 <sup>v</sup>	.3
21		30	44	5.4	2.1	3.3	6.1 <sup>v</sup>	5.8 <sup>v</sup>	.7
22		30	54	5.8	2.8 <sup>v</sup>	3.0	5.8 <sup>v</sup>	5.8 <sup>v</sup>	.0
23	15	31	04	6.3	2.5	3.8	6.6 <sup>v</sup>	6.4 <sup>v</sup>	.3
24		31	14	5.9	2.7	3.2	6.0 <sup>v</sup>	6.0 <sup>v</sup>	.1
25		31	24	5.8	2.1 <sup>v</sup>	3.7	6.5 <sup>v</sup>	6.2 <sup>v</sup>	.7
26		31	34	<del>5.4</del> 6.8	<del>3.3</del> 2.7	4.1	6.9 <sup>v</sup>	6.8 <sup>v</sup>	.1
27		31	44	7.1 <sup>v</sup>	3.1	4.0	6.8 <sup>v</sup>	7.0 <sup>v</sup>	.3
28		31	54	<del>6.1</del> 6.9	3.3	3.6	6.4 <sup>v</sup>	6.6 <sup>v</sup>	.5
29	15	32	04	6.5	<del>3.7</del> 2.9	<del>2.8</del> 3.6	6.4 <sup>v</sup>	6.4 <sup>v</sup>	.1 <sup>v</sup>
30		32	14	6.5	2.8	3.7	6.5 <sup>v</sup>	6.5 <sup>v</sup>	.0
31		32	24	7.5	2.6	4.9	7.7 <sup>v</sup>	7.6 <sup>v</sup>	.2
32		32	34	—	—	—			
33		32	44	—	—	—			
34		32	54	—	—	—			
35	15	33	04	—	—	—			

Sum

582

Mean

2.8<sup>v</sup>

Those in red ink remeasured by Lynn. Book 11, p 34. Remeasures of those marked with v may also be found there and on p. 44 of same.



Copied from Book 7 by R.W.L.

C 6175 Nov. 6, 1893. Jup. Ec. I Dis.

16	12	14	54	5.9	4.0	1.9	5.9 <sup>v</sup>	5.9 <sup>v</sup>	.1	.0
17	12	15	04	6.1	2.3	3.8	5.9 <sup>v</sup>	6.0 <sup>v</sup>	1.6	.2
18		15	14	6.0	4.4 <sup>v</sup>	1.6	5.6 <sup>v</sup>	5.8 <sup>v</sup>	.5	.4
19		15	24	5.9	3.5	2.4	6.4 <sup>v</sup>	6.2 <sup>v</sup>	.4	.5
20		15	34	5.8	3.4	2.4	6.4 <sup>v</sup>	6.1 <sup>v</sup>	.5	.6
21		15	44	5.9	3.5	2.4	6.4 <sup>v</sup>	6.2 <sup>v</sup>	.4	.5
22		15	54	6.2	4.3 <sup>v</sup>	1.9	5.9 <sup>v</sup>	6.0 <sup>v</sup>	.4	.3
23	12	16	04	6.0	3.9	2.1	6.1 <sup>v</sup>	6.0 <sup>v</sup>	.0	.1
24		16	14	6.1	3.9	2.2	6.2 <sup>v</sup>	6.2 <sup>v</sup>	.0	.1
25		16	24	6.1	3.9	2.2	6.2 <sup>v</sup>	6.2 <sup>v</sup>	.0	.1
26		16	34	6.1	3.7 <sup>v</sup>	2.4	6.4 <sup>v</sup>	6.2 <sup>v</sup>	.2	.3
27		16	44	6.3	4.2 <sup>v</sup>	2.6	6.1 <sup>v</sup>	6.2 <sup>v</sup>	.3	.2
28		16	54	6.2	4.3	1.9	5.9 <sup>v</sup>	6.0 <sup>v</sup>	.4	.3
29	12	17	04	6.7 <sup>v</sup>	4.1	2.6	6.6 <sup>v</sup>	6.6 <sup>v</sup>	.2	.1
30		17	14	6.1 <sup>v</sup>	4.2	1.9	6.7 <sup>v</sup>	6.8 <sup>v</sup>	.3	.2
31		17	24	6.5	4.1	2.4	6.4 <sup>v</sup>	6.4 <sup>v</sup>	.2	.1
32		17	34	6.5	3.6	2.9	6.9 <sup>v</sup>	6.7 <sup>v</sup>	.3	.4
33		17	44	6.9	3.6	3.3	7.3 <sup>v</sup>	7.1 <sup>v</sup>	.3	.4
34		17	54	7.4	3.9	3.5	7.5 <sup>v</sup>	7.4 <sup>v</sup>	.0	.1
35	12	18	04	7.3	4.5 <sup>v</sup>	2.8	6.8 <sup>v</sup>	7.0 <sup>v</sup>	.6	.5
36		18	14	7.4	4.1	3.3	7.3 <sup>v</sup>	7.4 <sup>v</sup>	.2	.1
37		18	24	7.5	4.1	3.4	7.4 <sup>v</sup>	7.4 <sup>v</sup>	.2	.1
38		18	34	7.1 <sup>v</sup>	4.0	3.1	7.1 <sup>v</sup>	7.1 <sup>v</sup>	.1	.0
39	12	18	44	8.2 <sup>v</sup>	4.3	3.9	7.9 <sup>v</sup>	8.0 <sup>v</sup>	.4	.3
40	12	18	54	8.0	4.3	3.7	8.3 <sup>v</sup>	8.4 <sup>v</sup>	.4	.3

Sum

Mean

~~981~~ 1000<sup>v</sup>  
~~486~~  
~~3.9~~ 4.0<sup>v</sup>

Those in red ink remeasured by Lynn. Book 11, pp. 35, 44. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.Z.

C 6378 Dec. 23, 1893. Jup. Ec. II R<sub>2</sub>.

2	11	54	00	5.4 <sup>8.7</sup>	2.8	2.6	8.4 <sup>5.9</sup>	8.6 <sup>✓</sup>	.3
3		54	10	5.3	3.1	2.2	7.1 <sup>✓</sup>	7.4 <sup>✓</sup>	.6
4		54	20	7.4 <sup>✓</sup>	2.2 <sup>✓</sup>	5.2	7.7 <sup>✓</sup>	7.6 <sup>✓</sup>	.3
5		54	30	7.0	2.7 <sup>✓</sup>	4.3	6.8 <sup>✓</sup>	6.9 <sup>✓</sup>	.2
6		54	40	6.7	2.4 <sup>✓</sup>	4.3	6.8 <sup>✓</sup>	6.8 <sup>✓</sup>	.1
7		54	50	5.6 <sup>✓</sup>	2.6	3.0	5.5 <sup>✓</sup>	5.6 <sup>✓</sup>	.1
8		55	00	6.4 <sup>5.7</sup>	2.5	3.9	5.7 <sup>✓</sup>	5.7 <sup>✓</sup>	.0
9		55	10	5.9	2.6 <sup>✓</sup>	3.3	5.8 <sup>✓</sup>	5.8 <sup>✓</sup>	.1
10		55	20	5.4	2.4 <sup>✓</sup>	3.9	5.5 <sup>✓</sup>	5.4 <sup>✓</sup>	.1
11	11	55	30	5.2	2.5 <sup>✓</sup>	2.7	5.2 <sup>✓</sup>	5.2 <sup>✓</sup>	.0
12		55	40	4.3 <sup>✓</sup>	2.5	1.8	4.3 <sup>✓</sup>	4.3 <sup>✓</sup>	.0
13		55	50	4.8 <sup>✓</sup>	2.6	2.2	4.7 <sup>✓</sup>	4.8 <sup>✓</sup>	.1
14		56	00	4.6 <sup>✓</sup>	2.8	1.2	4.3 <sup>✓</sup>	4.4 <sup>✓</sup>	.3
15		56	10	4.5 <sup>✓</sup>	2.7	1.8	4.3 <sup>✓</sup>	4.4 <sup>✓</sup>	.2
16		56	20	4.4 <sup>✓</sup>	2.0	1.7	4.9 <sup>✓</sup>	4.6 <sup>✓</sup>	.5
17		56	30	4.4 <sup>✓</sup>	2.2	2.2	4.7 <sup>✓</sup>	4.6 <sup>✓</sup>	.3
18		56	40	4.1	2.5	1.6	4.1 <sup>✓</sup>	4.1 <sup>✓</sup>	.0
19		56	50	4.2	2.5	1.7	4.2 <sup>✓</sup>	4.2 <sup>✓</sup>	.0
20		57	00	3.7	2.7	1.0	3.5 <sup>✓</sup>	3.6 <sup>✓</sup>	.2
21	11	57	10	3.9	2.5	1.4	3.9 <sup>✓</sup>	3.9 <sup>✓</sup>	.0
22		57	20	3.2	2.2	1.0	3.5 <sup>✓</sup>	3.4 <sup>✓</sup>	.3
23		57	30	3.3	2.5	.8	3.3 <sup>✓</sup>	3.3 <sup>✓</sup>	.0
24		57	40	2.9	2.5	.4	2.9 <sup>✓</sup>	2.9 <sup>✓</sup>	.0
25		57	50	3.4	2.5	.9	3.4 <sup>✓</sup>	3.4 <sup>✓</sup>	.0
26	11	58	00	4.4	2.4	2.0	4.5 <sup>✓</sup>	4.4 <sup>✓</sup>	.1
Sum				629 <sup>✓</sup>					
Mean				2.5 <sup>✓</sup>					

38

Those in red ink remeasured by Lynn. Book 11, p. 35. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C6438 Jan. 7, 1894. Jup. Ec. I Re.

6	13	16	17	8.0	3.2	4.8	8.4 <sup>0</sup>	8.0 <sup>v</sup>	.0	<u>.1</u>
7	13	16	27	7.3	3.5	3.8	7.4 <sup>0</sup>	7.2 <sup>v</sup>	.3	<u>.2</u>
8		16	37	6.5 <sup>v</sup>	3.4	3.1	6.4 <sup>3</sup>	6.4 <sup>v</sup>	.2	<u>.1</u>
9		16	47	5.6 <sup>v</sup>	3.0	2.6	5.8 <sup>8</sup>	5.8 <sup>v</sup>	.2	<u>.3</u>
10		16	57	6.0	3.3	2.7	6.0 <sup>5.9</sup>	6.0 <sup>v</sup>	.1	<u>.0</u>
11		17	07	6.2	3.6	2.6	5.8 <sup>8</sup>	6.0 <sup>v</sup>	.4	<u>.3</u>
12		17	17	5.4	3.2	2.2	5.5 <sup>4</sup>	5.4 <sup>v</sup>	.0	<u>.1</u>
13	13	17	27	4.6	3.0	1.6	4.9 <sup>8</sup>	4.8 <sup>v</sup>	.2	<u>.3</u>
14		17	37	4.6	3.1	1.5	4.8 <sup>6</sup>	4.7 <sup>v</sup>	.1	<u>.2</u>
15		17	47	4.8	2.8	2.0	5.3 <sup>2</sup>	5.0 <sup>v</sup>	.4	<u>.5</u>
16		17	57	4.2	2.9	1.3	4.6 <sup>5</sup>	4.4 <sup>v</sup>	-3 <u>1.2</u>	<u>.4</u>
17		18	07	4.3	3.1	1.2	4.5 <sup>4</sup>	4.4 <sup>v</sup>	.1	<u>.2</u>
18		18	17	4.0	3.4	.6	3.9 <sup>8</sup>	4.0 <sup>v</sup>	.2	<u>.1</u>
19	13	18	27	4.2	3.1 <sup>v</sup>	1.1	4.4 <sup>2</sup>	4.3 <sup>v</sup>	.1	<u>.2</u>
20		18	37	4.0 <sup>v</sup>	3.0	1.0	4.3 <sup>2</sup>	4.2 <sup>v</sup>	.2	<u>.3</u>
21		18	47	3.5	3.1 <sup>v</sup>	.4	3.8 <sup>6</sup>	3.6 <sup>v</sup>	.1	<u>.2</u>
22		18	57	3.6	3.4	.2	3.5 <sup>4</sup>	3.6 <sup>v</sup>	.2	<u>.1</u>
23		19	07	3.9	3.1	.8	4.1 <sup>0</sup>	4.0 <sup>v</sup>	.1	<u>.2</u>
24		19	17	3.8	3.3	.5	3.8 <sup>7</sup>	3.8 <sup>v</sup>	.1	<u>.0</u>
25	13	19	27	2.9 <sup>v</sup>	3.0	.1	3.2 <sup>1</sup>	3.0 <sup>v</sup>	.2	<u>.3</u>
26		19	37	3.8	3.1	.7	4.0 <sup>2.9</sup>	3.9 <sup>v</sup>	.1	<u>.2</u>
27		19	47	4.0	3.0	1.0	4.3 <sup>2</sup>	4.2 <sup>v</sup>	.2	<u>.3</u>
28		19	57	3.5	3.4	.1	3.4 <sup>7</sup>	3.4 <sup>v</sup>	.2	<u>.1</u>
29		20	07	3.8	3.6	.2	3.5 <sup>4</sup>	3.6 <sup>v</sup>	.4	<u>.3</u>
30	13	20	17	5.0	3.1	1.9	4.0 <sup>3.9</sup>	3.9 <sup>v</sup>	-1 <u>2.2</u>	<u>.2</u>

Sum

Mean

~~84825~~ 797~~832~~ 3210/366  
3.7

Those in red ink remeasured by Lynn. Book 11, pp. 36, 44. Remeasures of those marked with v may also be found here.



Copied from Book 7 by R.W.L.

C 6525 Jup. &amp; Jan. 30, 1894. Jup. Ec. I Re.

5				-	-	-			
6	13	32	56	7.8	4.0	3.8	8.0	7.9 <sup>✓</sup>	<u>.2</u>
7	13	33	06	7.4	4.1	3.3	7.5	7.4 <sup>✓</sup>	<u>.1</u>
8		33	16	6.0	3.6	2.4	6.6	6.3 <sup>✓</sup>	<u>.6</u>
9		33	26	5.7	3.8	1.9	6.1 <sup>✓</sup>	5.9 <sup>✓</sup>	<u>.4</u>
10		33	36	5.7	4.3	1.4	5.6	5.6 <sup>✓</sup>	<u>.1</u>
11		33	46	5.2	4.1	1.1	5.3	5.2 <sup>✓</sup>	<u>.1</u>
12		33	56	5.0	4.3	.7	4.9	5.0 <sup>✓</sup>	<u>.1</u>
13	13	34	06	4.6	4.0	.6	4.8	4.7 <sup>✓</sup>	<u>.2</u>
14		34	16	4.4	4.0	.4	4.6	4.5 <sup>✓</sup>	<u>.2</u>
15		34	26	4.2	4.0	<del>.2</del>	4.4 <sup>✓</sup>	4.3 <sup>✓</sup>	<u>.2</u>
16		34	36	4.5	3.9	.6	4.5	4.6 <sup>✓</sup>	<u>.3</u>
17		34	46	4.3	4.2	.1	4.3 <sup>✓</sup>	4.3 <sup>✓</sup>	<u>.0</u>
18		34	56	4.5	4.4	.1	4.3	4.4 <sup>✓</sup>	<u>.2</u>
19	13	35	06	4.2	4.4	.2	4.0	4.1 <sup>✓</sup>	<u>.2</u>
20		35	16	4.0	4.1	.1	4.1	4.0 <sup>✓</sup>	<u>.1</u>
21		35	26	3.5	3.8	.3	3.9 <sup>✓</sup>	3.7 <sup>✓</sup>	<u>.4</u>
22		35	36	3.7	4.1	.4	3.8	3.8 <sup>✓</sup>	<u>.1</u>
23		35	46	3.4	3.9	.5	3.7	3.6 <sup>✓</sup>	<u>.3</u>
24		35	56	3.4	4.5	1.1	3.1	3.2 <sup>✓</sup>	<u>.3</u>
25	13	36	06	3.9	4.2	.3	3.9	3.9 <sup>✓</sup>	<u>.0</u>
26		36	16	3.9	4.7	.8	3.4	3.6 <sup>✓</sup>	<u>.5</u>
27		36	26	4.1	4.4	.3	3.9 <sup>✓</sup>	4.0 <sup>✓</sup>	<u>.2</u>
28		36	36	4.1	4.6	.5	3.7	3.9 <sup>✓</sup>	<u>.4</u>
29		36	46	3.9	4.6	.7	3.5 <sup>✓</sup>	3.7 <sup>✓</sup>	<u>.4</u>

Sum

Mean

$$\begin{array}{r} 1000 \\ 1005 \\ \hline 4.2 \end{array}$$

$$\begin{array}{r} 10 [3]4 \\ 3.7 \end{array}$$

Those in red ink remeasured by Lyan - Book 11, p. 36. \* Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C 6540 Jan. 31, 1894. Jup. Ec. II Re.

6									
6	14	10	54	9.0	5.8	3.2	8.6 <sup>v</sup>	8.8 <sup>v</sup>	.4
7	14	11	04	8.5	5.7	2.8	8.2 <sup>v</sup>	8.4 <sup>v</sup>	.3
8	14	11	14	7.5 <sup>v</sup>	5.6	1.9	7.3 <sup>v</sup>	7.4 <sup>v</sup>	.2
9	14	11	24	8.0	5.4	2.6	8.0 <sup>v</sup>	8.0 <sup>v</sup>	.0
10	14	11	34	7.8	5.6	2.2	7.6 <sup>v</sup>	7.7 <sup>v</sup>	.2
11	14	11	44	7.4	5.5	1.9	7.3 <sup>v</sup>	7.4 <sup>v</sup>	.1
12	14	11	54	7.1	5.3	1.8	7.2 <sup>v</sup>	7.2 <sup>v</sup>	.1
13	14	12	04	7.0	5.7	1.3	6.7 <sup>v</sup>	6.8 <sup>v</sup>	.3
14	14	12	14	7.0	5.6	1.4	6.8 <sup>v</sup>	6.9 <sup>v</sup>	.2
15	14	12	24	6.7	5.6	1.1	6.5 <sup>v</sup>	6.6 <sup>v</sup>	.2
16	14	12	34	6.3	5.4	.9	6.3 <sup>v</sup>	6.3 <sup>v</sup>	.0
17	14	12	44	6.4	5.6	.8	6.2 <sup>v</sup>	6.3 <sup>v</sup>	.2
18	14	12	54	6.2	5.5	.7	6.1 <sup>v</sup>	6.2 <sup>v</sup>	.1
19	14	13	04	6.2	5.1	1.1	6.5 <sup>v</sup>	6.4 <sup>v</sup>	.3
20	14	13	14	6.2	5.4	.8	6.2 <sup>v</sup>	6.2 <sup>v</sup>	.0
21	14	13	24	5.8	5.0 <sup>v</sup>	.8	6.2 <sup>v</sup>	6.0 <sup>v</sup>	.4
22	14	13	34	5.9	5.7 <sup>v</sup>	.2	5.6 <sup>v</sup>	5.8 <sup>v</sup>	.3
23	14	13	44	5.6	5.1	.5	5.9 <sup>v</sup>	5.8 <sup>v</sup>	.3
24	14	13	54	5.8 <sup>v</sup>	4.9	.9	6.3 <sup>v</sup>	6.0 <sup>v</sup>	.5
25	14	14	04	5.8	4.9	.9	6.3 <sup>v</sup>	6.0 <sup>v</sup>	.5
26	14	14	14	5.6	5.0	.6	6.0 <sup>v</sup>	5.8 <sup>v</sup>	.4
27	14	14	24	5.5	5.5	.0	5.4 <sup>v</sup>	5.4 <sup>v</sup>	.1
28	14	14	34	5.7	5.6	.1	5.5 <sup>v</sup>	5.6 <sup>v</sup>	.2
29	14	14	44	5.3	5.0	.3	5.7 <sup>v</sup>	5.5 <sup>v</sup>	.4
30	14	14	54	5.0	5.4	.4	5.0 <sup>v</sup>	5.0 <sup>v</sup>	.0

Sum 1349<sup>v</sup>  
Mean 5.4<sup>v</sup>

Those in red ink remeasured by Lynn. Book 11, p. 36. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.Z.

C 6567 Feb. 6, 1894. Jup. Ec. I Re.

5	15	28	44	9.0	4.5	4.5	9.3	9.2	.3
6		28	54	8.5	4.3	4.2	9.0	8.8	.5
7	15	29	04	7.7	4.7	3.0	7.8	7.8	.1
8		29	14	7.5	5.4	2.1	7.6	7.6	.1
9		29	24	6.5	4.9	1.6	6.4	6.4	.1
10		29	34	6.3	4.5	1.8	6.6	6.4	.3
11		29	44	5.6	4.5	1.1	5.9	5.8	.3
12		29	54	5.0	4.5	.5	5.3	5.2	.3
13	15	30	04	4.3	4.3	.0	4.8	4.6	.5
14		30	14	4.8	5.2	.4	5.1	5.0	.3
15		30	24	4.6	4.8	.2	4.6	4.6	.0
16		30	34	4.8	5.0	.2	4.6	4.7	.2
17		30	44	4.7	5.1	.4	4.4	4.6	.3
18		30	54	4.6	4.9	.3	4.5	4.6	.1
19	15	31	04	4.9	4.6	.3	5.1	5.0	.2
20		31	14	5.1	5.2	.1	4.7	4.9	.4
21		31	24	4.1	4.7	.6	4.2	4.2	.1
22		31	34	4.0	4.6	.6	4.2	4.1	.2
23		31	44	3.9	4.9	1.0	3.8	3.8	.1
24		31	54	4.2	5.0	.8	4.0	4.1	.2
25	15	32	04	4.4	4.8	.4	4.4	4.4	.0
26		32	14	4.1	5.2	1.1	3.7	3.9	.4
27		32	24	4.8	5.3	.5	4.3	4.6	.5
28		32	34	4.3	5.0	.7	4.1	4.2	.2
29	15	32	44	3.7	4.5	.8	4.0	3.8	.3

Sum 1190  
Mean 4.8

7 371  
4.1

Those in red ink remeasured by Lynn. Book 11, p. 36. Remeasures of those marked with v must also be found there.



Copied from Book 7 by R.W.L.

C 11756 Feb. 4, 1899.

Jup. Ec. II Dis.  
442

13	19	00	48	3.3	3.4	.1	3.4	3.4 ✓	.1
14	19	00	58	2.5	3.0	.5	3.0	2.8 ✓	.5
15	19	01	08	2.8	2.7 <sup>v</sup>	.1	3.6	3.2 ✓	.8
16	19	01	18	4.5 <sup>3.5</sup>	3.8 <sup>3.2</sup>	.7 <sup>3.7</sup>	3.8	3.6 ✓	.3
17	19	01	28	3.8 <sup>v</sup>	2.6 <sup>3.3</sup>	1.2 <sup>5</sup>	4.0	3.9 ✓	.2
18	19	01	38	4.5	3.7	.8	4.3	4.4 ✓	.2
19	19	01	48	4.8	4.0	.8	4.3	4.6 ✓	.5
20	19	01	58	3.5	3.5	.0	3.5	3.5 ✓	.0
21	19	02	08	3.9	2.6 <sup>v</sup>	1.3	4.8	4.4 ✓	.9
22	19	02	18	4.5	3.9	.6	4.1	4.3 ✓	.4
23	19	02	28	5.8 <sup>3.6</sup>	5.3 <sup>2.2</sup>	.5	5.7	5.8 ✓	.1
24	19	02	38	4.6	2.5 <sup>v</sup>	2.1	5.6	5.1 ✓	1.0
25	19	02	48	2.9 <sup>4.2</sup>	1.9 <sup>2.8</sup>	1.0 <sup>1.4</sup>	4.9	4.6 ✓	1.6 .7
26	19	02	58	4.9 <sup>4.3</sup>	4.8 <sup>3.9</sup>	1.0 <sup>1.0</sup>	4.5	4.7 ✓	.8 .4
27	19	03	08	5.2 <sup>4.5</sup>	3.8	1.4 <sup>8</sup>	4.9	5.7 ✓	.3
28	19	03	18	5.4 <sup>4.3</sup>	3.7 <sup>3.8</sup>	1.7 <sup>5</sup>	4.3	4.4 ✓	.2
29	19	03	28	6.6 <sup>4.5</sup>	4.3 <sup>5</sup>	2.3 <sup>5</sup>	4.0	4.2 ✓	.8 .3
30	19	03	38	5.5 <sup>4.5</sup>	4.0 <sup>1.8</sup>	1.5 <sup>5</sup>	4.0	4.2 ✓	.5
31	19	03	48	6.5 <sup>4.5</sup>	3.2 <sup>v</sup>	3.3 <sup>1.8</sup>	4.8	4.6 ✓	.3
32	19	03	58	4.2 <sup>v</sup>	3.9	.3	3.8	4.0 ✓	.4
33	19	04	08	8.8	3.9	4.9	8.4	8.6 ✓	.4
34	19	04	18	8.5	3.8	4.7	8.2	8.4 ✓	.3
35	19	04	28	7.5 <sup>3.3</sup>	4.3 <sup>4.2</sup>	3.2	7.7	7.6 ✓	.2
36	19	04	38	7.7	3.6	4.1	7.6	7.6 ✓	.1
37	19	04	48	8.7	3.8	4.9	8.4	8.6 ✓	.3

Sum

Mean

869

3.5

3.5

Those in red ink remeasured by Lynn

Book 11, pp 37, 44

Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C 6677 April 2, 1894. Jup. Ec. I R<sub>2</sub>.  
G. M. J.

4	12	25	37	-	-	-	✓	✓	
5			478.0	4.5	3.5	8.0	8.0	✓	.0
6		25	577.9	4.1	3.8	8.3	8.1	✓	.4
7	12	26	076.7	4.6	2.1	6.6	6.6	✓	.1
8			176.1	4.6	1.5	6.0	6.0	✓	.1
9			276.8	4.2	2.1	6.6	6.4	✓	.3
10			376.2	4.6	1.6	6.1	6.2	✓	.1
11			475.7	4.5	1.2	5.7	5.7	✓	.0
12			575.9	4.7	1.2	5.7	5.8	✓	.2
13	12	27	075.7	4.2	1.5	6.0	5.8	✓	.3
14			175.3	4.1	1.2	5.7	5.5	✓	.4
15			275.5	4.4	1.1	5.6	5.6	✓	.1
16			375.5	4.3	1.2	5.7	5.6	✓	.2
17			475.2	4.5	.7	5.2	5.2	✓	.0
18			575.0	4.5	.5	5.0	5.0	✓	.0
19	12	28	075.6	4.3	1.3	5.8	5.7	✓	.2
20			175.3	4.9	.4	4.9	5.1	✓	.4
21			275.4	3.9	1.5	5.5	5.4	✓	.1
22			375.1	4.7	.4	4.9	5.0	✓	.2
23			474.9	4.8	.1	4.6	4.8	✓	.3
24			575.3	4.5	.8	5.3	5.3	✓	.0
25	12	29	075.1	4.7	.4	4.9	5.0	✓	.2
26			175.3	4.9	.4	4.9	5.1	✓	.4
27			275.2	4.8	.4	4.9	5.0	✓	.3
28	12	29	375.1	4.4	.7	5.2	5.2	✓	.1

Sum 1082 ✓  
 Mean 4.5

91 459  
 5.1

Those in red ink remeasured by Lynn. Book 11, p. 37. Remeasures of those marked with v may also be found there.



Copied from Book 7 by RWL.

C 11181 April 26, 1898. Jup. Ec. II R<sub>2</sub>  
445

7	14	24	10	7.7	2.8	4.9	7.9	7.8 <sup>v</sup>	.2
8	14	24	20	7.2	3.9 <sup>3.0</sup>	3.3 <sup>4.2</sup>	7.2	7.2 <sup>v</sup>	.9 <sup>0</sup>
9	14	24	30	7.0	3.2 <sup>v</sup>	3.8	6.8	6.9 <sup>v</sup>	.2
10	14	24	40	6.8	3.8 <sup>3.0</sup>	3.0 <sup>3.8</sup>	6.8	6.8 <sup>v</sup>	.0
11	14	24	50	5.9 <sup>v</sup>	3.0 <sup>v</sup>	2.9	5.9	5.9 <sup>v</sup>	.0
12	14	25	00	6.3 <sup>5.6<sup>v</sup></sup>	7.3 <sup>3.1</sup>	2.0 <sup>2.5</sup>	5.5	5.6 <sup>v</sup>	.1
13	14	25	10	5.7	3.0 <sup>v</sup>	2.7	5.7	5.7 <sup>v</sup>	.0
14	14	25	20	5.8	3.0	2.8	5.8	5.8 <sup>v</sup>	.0
15	14	25	30	5.6	2.7 <sup>2.7</sup>	3.5 <sup>2.9</sup>	5.9	5.8 <sup>v</sup>	.3
16	14	25	40	4.9 <sup>v</sup>	3.5 <sup>3.0</sup>	1.4 <sup>1.9</sup>	4.9	4.9 <sup>v</sup>	.0
17	14	25	50	5.2 <sup>v</sup>	2.7 <sup>2.7</sup>	2.5	5.5	5.4 <sup>v</sup>	.3
18	14	26	00	5.4	2.8	2.6	5.6	5.5 <sup>v</sup>	.2
19	14	26	10	4.9 <sup>v</sup>	3.1 <sup>1.8</sup>	2.6	4.8	4.8 <sup>v</sup>	.1
20	14	26	20	4.6 <sup>v</sup>	2.8 <sup>1.8</sup>	1.2 <sup>1.2</sup>	4.8	4.7 <sup>v</sup>	.2
21	14	26	30	4.6	3.2 <sup>3.2</sup>	1.4 <sup>1.4</sup>	4.4	4.5 <sup>v</sup>	.2
22	14	26	40	4.8	2.9 <sup>v</sup>	1.9	4.9	4.8 <sup>v</sup>	.1
23	14	26	50	4.8	3.2	1.6	4.6	4.7 <sup>v</sup>	.2
24	14	27	00	4.5	2.9	1.6	4.6	4.6 <sup>v</sup>	.1
25	14	27	10	4.9	2.8	2.1	5.1	5.0 <sup>v</sup>	.2
26	14	27	20	4.7	3.2 <sup>3.2</sup>	1.5 <sup>1.5</sup>	4.5	4.6 <sup>v</sup>	.2
27	14	27	30	4.9	3.4	1.5	4.5	4.7 <sup>v</sup>	.4
28	14	27	40	4.5	3.5	1.0	4.0	4.2 <sup>v</sup>	.5
29	14	27	50	4.2	3.1	1.1	4.1	4.2 <sup>v</sup>	.1
30	14	28	00	3.9	3.2	.7	3.7	3.8 <sup>v</sup>	.2
31	14	28	10	4.7	2.6	2.1	5.1	4.9 <sup>v</sup>	.4

Sum

Mean

761 752<sup>v</sup>3.0<sup>v</sup>57 218  
44

Those in red ink remeasured by Lynn. Book 11, pp 37, 44. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C 6708 April 25, 1894. Jup. Ec. I Re.  
J. W. T.

6	12	40	57	7.5	5.4	2.1	7.3	7.4 <sup>v</sup>	.8	.2
7	12	41	07	7.8	5.7	2.1	7.3	7.6 <sup>v</sup>	.6	.5
8			17	7.4	5.5	1.9	7.1	7.2 <sup>v</sup>	.4	.3
9			27	7.2	4.9	2.3	7.5	7.4 <sup>v</sup>	.2	.3
10			37	6.9	5.2	1.7	6.9	6.9 <sup>v</sup>	.1	.0
11			47	6.7	5.4	1.3	6.5	6.6 <sup>v</sup>	.2	.2
12			57	6.4	5.0	1.4	6.6	6.5 <sup>v</sup>	.1	.2
13	12	42	07	6.8	5.2	1.6	6.8	6.8 <sup>v</sup>	.1	.0
14			17	6.6	5.1	1.5	6.7	6.6 <sup>v</sup>	.0	.1
15			27	6.4	5.3	1.1	6.3	6.4 <sup>v</sup>	.2	.1
16			37	6.4	4.9 <sup>v</sup>	1.5	6.7	6.6 <sup>v</sup>	.12	.3
17			47	6.4	5.5	.9	6.1	6.2 <sup>v</sup>	.4	.3
18			57	6.3	5.6	.7	5.9	6.1 <sup>v</sup>	.5	.4
19	12	43	07	5.9	5.3	.6	5.8	5.8 <sup>v</sup>	.2	.1
20			17	5.8	5.6 <sup>v</sup>	.2	5.4	5.6 <sup>v</sup>	.5	.4
21			27	5.8	4.8	1.0	6.2	6.0 <sup>v</sup>	.3	.4
22			37	5.6	4.9	.7	5.9	5.8 <sup>v</sup>	.2	.3
23			47	5.3	5.1	.2	5.4	5.4 <sup>v</sup>	.0	.1
24			57	5.8	4.9	.9	6.1	6.0 <sup>v</sup>	.2	.3
25	12	44	07	5.7	5.0	.7	5.9	5.8 <sup>v</sup>	.1	.2
26			17	4.8	4.8 <sup>v</sup>	1.0	6.2	6.0 <sup>v</sup>	.3	.4
27			27	6.4	5.1 <sup>v</sup>	.6	5.8	5.8 <sup>v</sup>	.0	.1
28			37	5.8	4.6	1.2	5.9	5.8 <sup>v</sup>	.0	.1
29			47	5.8	5.1	.7	5.9	5.8 <sup>v</sup>	.0	.1
30	12	44	57	6.0	5.4	.6	5.8	5.9 <sup>v</sup>	.3	.2

Sum 1298<sup>v</sup>  
Mean 5.152<sup>v</sup>

Remeasures of those marked with v may also be found there.

Those in red ink remeasured by Lynn. Book 11, pp 38, 45



Copied from Book 7 by R.W.L.

C 7498 Feb. 11, 1895. Jnp. Ec. I R. E.  
G. H. J.

1	13	11	35	8.0	4.5	3.5	7.9	8.0 ✓	.1
2			45	8.5	4.4	4.1	8.5	8.5 ✓	.0
3			55	7.9	4.3	3.6	8.0	8.0 ✓	.1
4		12	05	7.0	4.2	2.8	7.2	7.1 ✓	.2
5			15	6.4	4.2	2.2	6.6	6.5 ✓	.2
6			25	6.0	4.5	1.5	5.9	6.0 ✓	.1
7			35	5.5 <sup>v</sup>	4.0 <sup>v</sup>	1.5	5.9	5.7 ✓	.4
8			45	6.0	4.9	1.1	5.5	5.8 ✓	.5
9			55	5.8	4.9	.9	5.3	5.6 ✓	.5
10		13	05	5.4	4.2 <sup>v</sup>	1.2	5.6	5.5 ✓	.2
11	13	13	15	5.1	4.5	.6	5.0	5.0 ✓	.1
12			25	4.8	4.0	.8	5.2	5.0 ✓	.4
13			35	4.9	4.1	.8	5.2	5.0 ✓	.3
14			45	4.8	4.8 <sup>v</sup>	.0	4.4	4.6 ✓	.4
15			55	4.8	4.4	.4	4.8	4.8 ✓	.0
16		14	05	4.3	4.4	.1	4.3	4.3 ✓	.0
17			15	4.1	4.3	.2	4.2	4.2 ✓	.1
18			25	4.5	4.4	.1	4.5	4.5 ✓	.0
19			35	4.2	4.3	.1	4.3	4.2 ✓	.1
20			45	4.8 <sup>v</sup>	4.8 <sup>v</sup>	.0	4.4	4.6 ✓	.4
21	13	14	55	4.3	4.0 <sup>v</sup>	.3	4.7	4.5 ✓	.4
22		15	05	4.3	4.5 <sup>v</sup>	.2	4.2	4.2 ✓	.1
23			15	4.1	4.4	.3	4.1	4.1 ✓	.0
24			25	4.1	4.4	.3	4.1	4.1 ✓	.0
25			35	4.1	4.3	.2	4.2	4.2 ✓	.1

1097  
100  
97

Sum

1097<sup>v</sup>

Mean

4.4<sup>v</sup>1097  
4.3

Those in red ink remeasured by Lynn. Book 11, p. 38. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C 7652 Mar. 30, 1895.

Jap. Ec. II Re.

G. U. J.

5	13	16	579.0	4.0	5.0	9.7	9.4 <sup>✓</sup>	.7
6		17	078.5	4.9	3.6	6.3	8.4 <sup>✓</sup>	.2
7			177.5	4.5	3.0	7.7	7.6 <sup>✓</sup>	.2
8			276.7	4.9	1.8	6.5	6.6 <sup>✓</sup>	.2
9			376.5	4.7	1.8	6.5	6.5 <sup>✓</sup>	.0
10			477.0	5.3	1.7	6.5	6.4 <sup>✓</sup>	.2
11	13	17	575.5	4.8	.7	5.4	5.4 <sup>✓</sup>	.1
12		18	074.5	4.3 <sup>✓</sup>	.2	4.9	4.7 <sup>✓</sup>	.4
13			175.2 <sup>✓</sup>	4.9	.3	5.0	5.1 <sup>✓</sup>	.2
14			274.9	4.6	.3	5.0	5.0 <sup>✓</sup>	.1
15			374.7	4.7	.0	4.7	4.7 <sup>✓</sup>	.0
16			474.5	4.5	.0	4.7	4.6 <sup>✓</sup>	.2
17			573.8	4.8	1.0	4.7	4.8 <sup>✓</sup>	.1
18		19	074.3	4.8	.5	4.2	4.2 <sup>✓</sup>	.1
19			174.4	5.0	.6	4.1	4.2 <sup>✓</sup>	.3
20			274.5	4.9	.4	4.3	4.4 <sup>✓</sup>	.2
21	13	19	373.9 <sup>✓</sup>	4.7	.8	3.9	3.9 <sup>✓</sup>	.0
22			474.4	4.9 <sup>✓</sup>	.5	4.2	4.3 <sup>✓</sup>	.2
23			574.0	4.1	.8	3.9	4.2 <sup>✓</sup>	.1
24		20	073.7	4.6	.9	3.8	3.8 <sup>✓</sup>	.1
25			174.3 <sup>✓</sup>	4.9	.6	4.1	4.2 <sup>✓</sup>	.2
26			273.7 <sup>✓</sup>	5.4	1.7	3.0	3.4 <sup>✓</sup>	.2
27			374.2	4.8	1.6	3.6	3.8 <sup>✓</sup>	.1
28			472.9	4.6	1.7	3.0	3.0 <sup>✓</sup>	.1
29	13	20	573.9	4.9	1.0	3.7	3.8 <sup>✓</sup>	.2

Sum 1175<sup>✓</sup>  
Mean 4.7<sup>✓</sup>

42  
3.7

Those in red ink remeasured by Lynn. Book 11, p. 38.

Remeasures of those marked with ✓ may also be found there.



Copied from Book 7 by R.W.L.

C 9086 April 16, 1896 Ex. Jup. Ec. I Re.

g. M. T.

4 20

9	15	04	09	9.0	6.0	3.0	8.9	9.0 ✓	.1
10	15	04	17	9.0	6.1	2.9	8.8	8.9 ✓	.2
11	15	04	25	8.1	6.2	1.9	7.8	8.0 ✓	.3
12	15	04	33	7.9	5.8	2.1	8.0	8.0 ✓	.1
13	15	04	42	7.5	5.8	1.7	7.6	7.6 ✓	.1
14	15	04	50	6.9	5.8	1.1	7.0	7.0 ✓	.1
15	15	04	58	7.1	6.0	1.1	7.0	7.0 ✓	.1
16	15	05	06	6.9	5.5	1.4	7.3	7.1 ✓	.4
17	15	05	14	6.8	5.7	1.1	7.0	6.9 ✓	.2
18	15	05	22	6.6	6.2	.4	6.3	6.4 ✓	.3
19	15	05	30	6.5	5.9	.6	6.5	6.5 ✓	.0
20	15	05	39	6.3	5.9 ✓	.4	6.3	6.3 ✓	.0
21	15	05	47	6.2	3.0 <sup>5.9</sup> <sub>3.2</sub>	3.2	6.2	6.2 ✓	.0
22	15	05	55	6.5	6.0 ✓	.5	6.4	6.4 ✓	.1
23	15	06	03	5.9	5.8	.1	6.0	6.0 ✓	.1
24	15	06	11	5.8	5.8	.0	5.9	5.8 ✓	.1
25	15	06	19	5.9	5.8	.1	6.0	6.0 ✓	.1
26	15	06	27	5.5	5.4	.1	6.0	5.8 ✓	.5
27	15	06	35	6.1	6.1	.0	5.9	6.0 ✓	.2
28	15	06	43	6.1	5.9	.2	6.1	6.1 ✓	.0
29	15	06	51	5.9	6.1	.2	5.7	5.8 ✓	.2
30	15	07	00	5.9	5.8 ✓	.1	6.0	6.0 ✓	.1
31	15	07	08	5.9	6.1	.2	5.7	5.8 ✓	.2
32	15	07	16	5.9	6.1	.2	5.7	5.8 ✓	.2
33	15	07	24	5.8	5.9	.1	5.8	5.8 ✓	.0

Sum 1476 ✓  
Mean 5.9 ✓

20) 589  
5.9

Those in red ink remeasured by Lynn - Book 11, p. 39. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.Z.

C 9221 May 25, 1896. Jup. Ec. I Re.

8	13	39	10	—	—	—	.	.	
9	13	39	18	9.0	6.8	2.2	9.1	9.0 <sup>v</sup>	.1
10	13	39	26	9.0	7.1	1.9	8.8	8.9 <sup>v</sup>	.2
11	13	39	34	8.1	6.9	1.2	8.1	8.1 <sup>v</sup>	.0
12	13	39	42	8.0	6.9	1.1	8.0	8.0 <sup>v</sup>	.0
13	13	39	50	7.1 <sup>v</sup>	6.5	.6	7.5	7.3 <sup>v</sup>	.4
14	13	39	58	7.5	7.0	.5	7.4	7.4 <sup>v</sup>	.1
15	13	40	06	7.4	7.1	.3	7.2	7.3 <sup>v</sup>	.2
16	13	40	15	7.1	6.8	.3	7.2	7.2 <sup>v</sup>	.1
17	13	40	23	7.2	7.0	.2	7.1	7.2 <sup>v</sup>	.1
18	13	40	31	7.2	6.7	.5	7.4	7.3 <sup>v</sup>	.2
19	13	40	39	7.0	7.0	.0	6.9	7.0 <sup>v</sup>	.1
20	13	40	47	6.9	6.6	.3	7.2	7.0 <sup>v</sup>	.3
21	13	40	55	6.9	6.7	.2	7.1	7.0 <sup>v</sup>	.2
22	13	41	03	6.8	6.8	.0	6.9	6.8 <sup>v</sup>	.1
23	13	41	11	6.9	7.0	.1	6.8	6.8 <sup>v</sup>	.1
24	13	41	19	6.5	6.6	.1	6.8	6.6 <sup>v</sup>	.3
25	13	41	28	6.5	6.5	.0	6.9	6.7 <sup>v</sup>	.4
26	13	41	36	6.6	6.8	.2	6.7	6.6 <sup>v</sup>	.1
27	13	41	44	6.8	6.9	.1	6.8	6.8 <sup>v</sup>	.0
28	13	41	52	6.5	7.2	.7	6.2	6.4 <sup>v</sup>	.3
29	13	42	00	6.2	7.0	.8	6.1	6.2 <sup>v</sup>	.1
30	13	42	08	6.6	6.8	.2	6.7	6.6 <sup>v</sup>	.1
31	13	42	16	6.8	7.1	.3	6.6	6.7 <sup>v</sup>	.2
32	13	42	24	6.5	7.1	.6	6.3	6.4 <sup>v</sup>	.2

21. 1648 (69)  
144  
208  
216

Sum 1648<sup>v</sup>  
Mean 6.9<sup>v</sup>

1323  
6.4

Those in red ink remeasured by Lynn. Book 11, p. 39. Remeasures of those marked with <sup>v</sup> may also be found there.



Copied from Book 7 by R.W.L.

C 9559 Oct. 15, 1896. Jup. Ec. I Dis.

455

13	19	55	05	6.7	6.1	.6	6.9	6.8 ✓	.2
14	19	55	15	6.5	6.4	.1	6.4	6.4 ✓	.1
15	19	55	25	6.6	6.5	.1	6.4	6.5 ✓	.2
16	19	55	35	6.9	6.9	.0	6.3	6.6 ✓	.6
17	19	55	45	6.5	6.4	.1	6.4	6.4 ✓	.1
18	19	55	55	6.3	6.4	.1	6.2	6.2 ✓	.1
19	19	56	05	6.9 <sup>v</sup>	6.6	.3	<del>6.6</del>	6.8 <sup>v</sup>	.3
20	19	56	15	6.5	6.4	.1	6.4	6.4 ✓	.1
21	19	56	25	6.5	5.8	.7	6.5	6.5 ✓	.0
22	19	56	35	6.7	6.6 <sup>v</sup>	.1	6.4	6.6 ✓	.3
23	19	56	45	6.8	6.2	.6	6.9	6.8 ✓	.1
24	19	56	55	6.5	6.3	.2	6.5	6.5 ✓	.0
25	19	57	05	6.6	5.9	.7	7.0	6.8 ✓	.4
26	19	57	15	6.8	6.3	.5	6.8	6.8 ✓	.0
27	19	57	25	7.5 <sup>v</sup>	6.6	.9	7.2	7.4 ✓	.3
28	19	57	35	7.2	6.5	.7	7.0	7.1 ✓	.2
29	19	57	45	7.4	6.4	1.0	7.3	7.4 ✓	.1
30	19	57	55	7.8	6.4	1.4	7.7	7.8 ✓	.1
31	19	58	05	7.8	6.4	1.4	7.7	7.8 ✓	.1
32	19	58	15	8.4	6.3	2.1	8.4	8.4 ✓	.0
33	19	58	25	8.7	6.4	2.3	8.6	8.6 ✓	.1
34	19	58	35	8.4 <sup>v</sup>	6.4	2.0	8.3	8.4 ✓	.1
35	19	58	45	9.3 <sup>v</sup>	5.7	3.6	9.9	9.6 ✓	.6
36	19	58	55	9.0	5.8	3.2	9.5	9.2 ✓	.5
37	19	59	05	9.0	6.2	2.8	9.1	9.0 ✓	.1

10) 652  
6.5Sum 1584 ✓  
Mean 6.3 ✓

Those in red ink remeasured by Lynn. Book 11, p. 39. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

35

C 9677 Nov. 14, 1896.

Jup. Ec. I. Dis.

9	21	55	58	5.6	5.5	.1	5.5	5.6 <sup>v</sup>	.1
10	21	56	08	5.4	5.4	.0	5.4	5.4 <sup>v</sup>	.0
11	21	56	18	5.5	5.3	.2	5.6	5.6 <sup>v</sup>	.1
12	21	56	28	5.4	5.2	.2	5.6	5.5 <sup>v</sup>	.2
13	21	56	38	5.3	5.0	.3	5.7	5.5 <sup>v</sup>	.4
14	21	56	48	5.8	5.6 <sup>v</sup>	.2	5.6	5.7 <sup>v</sup>	.2
15	21	56	58	5.4	5.4 <sup>v</sup>	.6	5.4	5.4 <sup>v</sup>	.0
16	21	57	08	5.4	5.4 <sup>v</sup>	.0	5.4	5.4 <sup>v</sup>	.0
17	21	57	18	5.1	3.9	1.2	5.5	5.6 <sup>v</sup>	.1
18	21	57	28	6.1 <sup>v</sup>	5.8 <sup>v</sup>	.3	5.7	5.9 <sup>v</sup>	.4
19	21	57	38	6.0	5.6	.4	5.8	5.9 <sup>v</sup>	.2
20	21	57	48	6.2	5.8 <sup>v</sup>	.4	5.8	6.0 <sup>v</sup>	.4
21	21	57	58	5.8 <sup>v</sup>	4.9	.9	5.8	5.8 <sup>v</sup>	.0
22	21	58	08	6.4	5.4	1.0	6.4	6.4 <sup>v</sup>	.0
23	21	58	18	6.2	5.1	1.1	6.5	6.4 <sup>v</sup>	.3
24	21	58	28	6.0	5.3	.7	6.1	6.6 <sup>v</sup>	.1
25	21	58	38	5.9	5.5	.4	5.8	5.8 <sup>v</sup>	.1
26	21	58	48	6.2	5.1	1.1	6.5	6.4 <sup>v</sup>	.3
27	21	58	58	6.7	5.4	1.3	6.7	6.7 <sup>v</sup>	.0
28	21	59	08	6.8	5.2	1.6	7.0	6.9 <sup>v</sup>	.2
29	21	59	18	7.1	5.4	1.7	7.1	7.1 <sup>v</sup>	.0
30	21	59	28	7.2	5.0	2.2	7.1	7.2 <sup>v</sup>	.1
31	21	59	38	7.7	5.6	2.1	7.5	7.6 <sup>v</sup>	.2
32	21	59	48	7.8	5.8	2.0	7.4	7.6 <sup>v</sup>	.4
33	21	59	58	9.0	5.0	4.0	9.4	9.2 <sup>v</sup>	.4

9 | 497  
5.5

Sum 1352<sup>v</sup>  
Mean 5.4<sup>v</sup>

Those in red ink remeasured by Lynn. Book 11, p. 40

Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C 9815 Dec. 23, 1896.

Jup. Ec. I Dis.  
459

8	20	16	14	5.9	5.6	.3	6.0	6.0	.1
9	20	16	24	5.9	6.2	.3	5.4 6.0	5.6	.5
10	20	16	34	6.5	6.3	.2	5.9	6.2	.6
11	20	16	44	6.4	6.1	.3	6.0	6.2	.4
12	20	16	54	6.4	6.0	.4	6.1	6.2	.3
13	20	17	04	5.8	5.3	.5	6.2	6.0	.4
14	20	17	14	5.7	5.5	.2	5.9	5.8	.2
15	20	17	24	6.3	5.6	.7	6.4	6.4	.1
16	20	17	34	6.1	6.0	.1	5.8	6.0	.3
17	20	17	44	5.4	5.3	.1	5.8	5.6	.4
18	20	17	54	6.4	5.9	.5	5.5	5.6	.2
19	20	18	04	6.3	6.0	.3	6.0	6.2	.3
20	20	18	14	6.3	5.4	.9	6.6	6.4	.3
21	20	18	24	6.4	5.6	.8	6.5	6.4	.1
22	20	18	34	6.5	5.9	.6	6.3	6.4	.2
23	20	18	44	6.8	6.0	.8	5.5	5.6	.3
24	20	18	54	5.7	5.5	.2	5.9	5.8	.2
25	20	19	04	5.9	5.6	.3	6.0	6.0	.1
26	20	19	14	5.7	5.7	.0	5.7	5.7	.0
27	20	19	24	6.9	5.7	.2	6.1	6.1	.0
28	20	19	34	6.9	5.4	1.5	7.2	7.0	.3
29	20	19	44	6.9	6.0	.9	6.6	6.8	.3
30	20	19	54	6.8	5.1	1.7	7.4	7.1	.6
31	20	20	04	-	-	-			
32	20	20	14	-	-	-			

Sum  
Mean

1317

5.7

271 1317  
1317  
1317

Those in red ink remeasured by Lynn. Book 11, p. 40. Remeasures of those marked with v may also be found there.



Copied from Book 7 by B.W.L.

C 9904 Jan. 8, 1897.

Jup. Ec: I Dis.

8	18	31	156.2	5.7	.5	6.4	6.3✓	.2
9	18	31	256.5	5.8	.7	6.6	6.6✓	.1
10	18	31	356.5	5.9	.6	6.5	6.5✓	.0
11	18	31	456.3	5.5	.8	6.7	6.5✓	.4
12	18	31	556.2	5.5	.7	6.6	6.4✓	.4
13	18	32	056.4	5.5	.9	6.8	6.6✓	.4
14	18	32	155.9	5.7	.2	6.1	6.0✓	.2
15	18	32	255.9	5.5	.4	6.3	6.1✓	.4
16	18	32	356.3	5.5	.8	6.7	6.5✓	.4 <sup>10/643</sup>
17	18	32	456.6	5.6	1.0	6.9	6.8✓	.3 <sub>6.4</sub>
18	18	32	556.7	6.1	.6	6.5	6.6✓	.2
19	18	33	056.8	5.9	.9	6.8	6.8✓	.0
20	18	33	156.4	6.0	.4	6.8	6.8✓	.1
21	18	33	257.0	5.9	.4	7.0	7.0✓	.0
22	18	33	356.5	6.1	.4	6.9	7.0✓	.2
23	18	33	457.4	6.0	1.4	7.3	7.4✓	.1
24	18	33	557.3	5.7	1.6	7.5	7.4✓	.2
25	18	34	057.0	5.5	1.5	7.4	7.2✓	.4
26	18	34	157.3	6.1	1.2	7.1	7.2✓	.2
27	18	34	257.7	6.1	1.56	7.4	7.6✓	.2
28	18	34	357.5	6.1	1.4	7.3	7.4✓	.2
29	18	34	457.9	6.3	1.6	7.5	7.7✓	.4
30	18	34	557.0	6.1	2.0	7.9	8.0✓	.2
31	18	35	058.5	6.1	2.4	8.3	8.4✓	.2
32	18	35	159.0	6.5	2.5	8.4	8.7✓	.6

Sum  
Mean1468 ✓  
5.9 ✓Those in red ink remeasured by Lynn. Book 11, p. 40. <sup>40.</sup> with v may also be found there.



Copied from Book 7 by R.W.L.

C 7670 April 5, 1895. Jup. Ec. I Re.

J. H. J.

5	15	39	54	-	-	-	✓	✓	
6	15	40	04	9.0	5.2	3.8	9.0	9.0 ✓	.0
7	15	40	14	7.6	5.5	2.1	7.3	7.4 ✓	.3
8	15	40	24	7.4	5.4	2.0	7.2	7.3 ✓	.2
9	15	40	34	6.9	4.9 <sup>v</sup>	2.0	7.2	7.0 ✓	.3
10	15	40	44	6.8	5.7 <sup>v</sup>	1.1	6.3	6.6 ✓	.5
11	15	40	54	6.2	5.1	1.1	6.3	6.2 ✓	.1
12	15	41	04	6.1	5.3	.8	6.0	6.0 ✓	.1
13	15	41	14	5.9	5.4	.5	5.7	5.8 ✓	.2
14	15	41	24	5.9	5.6	.3	5.5	5.7 ✓	.4
15	15	41	34	5.9	5.1	.8	6.0	6.0 ✓	.1
16	15	41	44	5.8	5.2	.6	5.8	5.8 ✓	.0
17	15	41	54	5.5	5.2	.3	5.5	5.5 ✓	.0
18	15	42	04	5.7	4.9	.8	6.0	5.8 ✓	.3
19	15	42	14	5.7	5.1	.6	5.8	5.8 ✓	.1
20	15	42	24	5.1	5.1	.0	5.2	5.2 ✓	.1
21	15	42	34	4.9	4.5 <sup>5.2</sup>	.3 <sup>3</sup>	4.9	4.9 ✓	.0
22	15	42	44	5.6 <sup>v</sup>	5.4 <sup>v</sup>	.2	5.4	5.5 ✓	.2
23	15	42	54	4.9 <sup>5.4</sup>	5.0 <sup>5.4</sup>	.1	5.6	5.5 ✓	.2
24	15	43	04	5.3	5.1	.2	5.4	5.4 ✓	.1
25	15	43	14	5.3	5.1	.2	5.4	5.4 ✓	.1
26	15	43	24	5.4	5.5	.1	5.1	5.2 ✓	.3
27	15	43	34	5.5 <sup>x</sup>	5.4	.1	5.3	5.4 ✓	.2
28	15	43	44	4.6	4.8	.2	5.0	4.8 ✓	.4
29	15	43	54	5.3	4.9	.4	5.6	5.4 ✓	.3

21 12 1/2 1/2 1/2

Sum 1251 ✓  
Mean 5.2 ✓

51 52 7  
5.3

Those in red ink remeasured by Lynn. Book 11, p. 39. Remeasures of those marked with v may also be found there.



Copied from Book 7 by R.W.L.

C 8981 March 24, 1896. Jup. Ec. I R<sub>E</sub>.

8	14	48	41	8.8	5.0	3.8	8.1	8.4 ✓	.7
9	14	48	50	8.5	3.9	4.6	8.9	8.7 ✓	.4
10	14	48	58	8.5	4.6 ✓	3.9	8.2	8.4 ✓	.3
11	14	49	06	7.2	4.2	3.0	7.3	7.2 ✓	.1
12	14	49	14	6.5	4.5	2.0	6.3	6.4 ✓	.2
13	14	49	22	6.6	4.5	2.1	6.4	6.5 ✓	.2
14	14	49	30	6.0	4.5	1.5	5.8	5.9 ✓	.2
15	14	49	38	6.3	4.2	2.1	6.4	6.4 ✓	.1
16	14	49	46	5.8	3.9	1.9	6.2	6.0 ✓	.4
17	14	49	54	5.3	4.5 ✓	1.8	5.1	5.2 ✓	.2
18	14	50	02	5.7	4.0	1.7	6.0	5.8 ✓	.3
19	14	50	10	5.3 ✓	4.4	.9	5.2	5.2 ✓	.1
20	14	50	18	5.9 ✓	4.5	1.4	5.7	5.8 ✓	.2
21	14	50	26	5.3	4.5	1.4	5.1	5.2 ✓	.2
22	14	50	35	4.9	4.4	1.0	4.8	4.8 ✓	.1
23	14	50	43	4.9	4.4	.5	4.8	4.8 ✓	.1
24	14	50	51	4.6	4.0	.6	4.9	4.8 ✓	.3
25	14	50	59	4.6	4.2	.4	4.7	4.6 ✓	.1
26	14	51	07	5.2	4.5	.7	5.0	5.1 ✓	.2
27	14	51	15	5.3	4.1	1.2	5.5	5.4 ✓	.2
28	14	51	24	4.8	4.4	.4	4.7	4.8 ✓	.1
29	14	51	32	5.2	4.1	1.1	5.4	5.3 ✓	.2
30	14	51	40	5.2	4.5 ✓	.7	5.0	5.1 ✓	.2
31	14	51	48	4.9	3.8	1.1	5.4	5.2 ✓	.5
32	14	51	56	5.1	4.4	.7	5.0	5.0 ✓	.1

Sum 1080 ✓  
Mean 4.3 ✓

12 | 601  
5.0

Those in red ink remeasured by Lynn. Book 11, p. 39. Remeasures of those marked with ✓ may also be found there.



Copied from Book 7 by R.W.L.

C 10698 Nov. 6, 1897. Jap. Ec. II Dis.

	h	u	s						
8	21	34	57	6.8	6.1	.7	7.1	7.0 ✓	.3
9		35	07	6.6	6.1	.5	6.9	6.8 ✓	.3
10			17	6.9	6.6	.3	6.7	6.8 ✓	.2
11	21	35	27	6.5	6.6	.1	6.3	6.4 ✓	.2
12			37	6.0	6.6	.6	5.8	5.9 ✓	.2
13			47	6.3	6.6	.3	6.1	6.2 ✓	.2
14			57	6.2	6.5 ✓	.3	6.1	6.2 ✓	.1
15		36	07	6.6	5.8 ✓	.8	7.2	6.9 ✓	.6
16			17	7.1	6.7	1.4	7.5	7.3 ✓	.4
17			27	6.8	6.4	.4	6.8	6.8 ✓	.0
18			37	7.1	6.5	.6	7.0	7.0 ✓	.1
19			47	6.8	6.4	.4	6.8	6.8 ✓	.0
20			57	7.2	6.5	.7	7.1	7.2 ✓	.1
21	21	37	07	6.8	6.5	.3	6.7	6.8 ✓	.1
22			17	7.1	6.8	.3	6.7	6.9 ✓	.4
23			27	7.8	6.6	1.2	7.6	7.7 ✓	.2
24			37	7.6	6.5	1.1	7.5	7.6 ✓	.1
25			47	7.8	6.2	1.6	8.0	7.9 ✓	.2
26			57	7.8	6.2	1.6	8.0	7.9 ✓	.2
27		38	07	8.4	6.6	1.8	7.6	7.7 ✓	.2
28			17	7.8 ✓	6.4	1.4	7.8	7.8 ✓	.0
29			27	9.0 ✓	7.1	1.9	8.3	8.6 ✓	.7
30			37	9.0	6.9	2.1	8.5	8.8 ✓	.5
31	21	38	47	9.2	6.3	2.9	9.3	9.2 ✓	.1
32	21	38	57	—	—	—		16.4	—

Sum	1548
Mean	6.4

21 / 1542 164  
144  
102  
90

Mean 6.4  
Those in red ink remeasured by Lynn. BOOK 11, p. 41. Remeasures of those marked with v may also be found there.  
John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System



Copied from Book 7 by R.W.L.

C 10933 Jan. 27, 1898. Jup. Ec. I Dis.

10	19	44	44	7.2	7.2	.0	7.1	7.2 <sub>v</sub>	.1
11	19	44	54	7.0	7.1	.1	7.0	7.0 <sub>v</sub>	.0
12	19	45	04	7.8 <sub>v</sub>	7.2	.6	7.7	7.8 <sub>v</sub>	.1
13	19	45	14	7.1	6.6	.5	7.0	7.0 <sub>v</sub>	.1
14	19	45	24	7.1	7.0	.1	7.2	7.2 <sub>v</sub>	.1
15	19	45	34	7.6	6.9	.7	7.8	7.7 <sub>v</sub>	.2
16	19	45	44	7.6	6.8	.8	7.9	7.8 <sub>v</sub>	.3
17	19	45	54	7.4	7.0	.4	7.5	7.4 <sub>v</sub>	.1
18	19	46	04	7.5	7.1	.4	7.5	7.5 <sub>v</sub>	.0
19	19	46	14	7.0 <sub>v</sub>	6.9	.1	7.8	7.7 <sub>v</sub>	.2
20	19	46	24	7.8 <sub>v</sub>	7.4 <sub>v</sub>	.4	7.5	7.6 <sub>v</sub>	.3
21	19	46	34	6.9 <sub>v</sub>	6.5	.4	7.3	7.4 <sub>v</sub>	.2
22	19	46	44	7.9	7.6 <sub>v</sub>	.3	7.4	7.6 <sub>v</sub>	.5
23	19	46	54	7.6	6.8	.8	7.9	7.8 <sub>v</sub>	.3
24	19	47	04	6.9 <sub>v</sub>	6.6	.3	8.2	8.0 <sub>v</sub>	.5
25	19	47	14	7.6 <sub>v</sub>	7.3 <sub>v</sub>	.3	7.4	7.5 <sub>v</sub>	.2
26	19	47	24	7.2 <sub>v</sub>	7.0	.2	8.0	8.0 <sub>v</sub>	.1
27	19	47	34	8.1 <sub>v</sub>	7.4	.7	7.8	8.0 <sub>v</sub>	.3
28	19	47	44	7.8	7.2	.6	7.7	7.8 <sub>v</sub>	.1
29	19	47	54	8.0	7.4	.6	7.7	7.8 <sub>v</sub>	.3
30	19	48	04	8.4	6.9	1.5	8.6	8.5 <sub>v</sub>	.2
31	19	48	14	8.6	6.8	1.8	8.9	8.8 <sub>v</sub>	.3
32	19	48	24	8.6	7.4	1.2	8.3	8.4 <sub>v</sub>	.3
33	19	48	34	8.5	7.1	1.4	8.5	8.5 <sub>v</sub>	.2
34	19	48	44	7.4	6.2	1.2	9.6	9.5 <sub>v</sub>	.9

$$\begin{array}{r} 10 \overline{) 745} \\ 74 \\ \hline \end{array}$$

Sum ~~1768~~ 1775  
Mean 7.1

Those in red ink remeasured by Lynn. Book 11, pp. 41, 45. Remeasures of those marked with v may also be found there.



Copied from Book 7 by Rev. L.

C 14086 Oct. 25, 1902. Jap. Ec. II Re.

h m s.

5.0 5

10	12 55	179.0	5.0	4.0	8.7	8.8	3
11	12 55	277.6	4.2	3.4	8.1	7.8	5
12		378.0	4.6	3.4	8.1	8.0	1
13		476.8	5.0	1.8	6.5	6.6	3
14		576.5	4.8	1.7	6.4	6.4	1
15	56	076.5	5.0	1.5	6.2	6.4	3
16		176.6	4.8	1.8	6.5	6.6	1
17		276.3	4.7	1.6	6.3	6.3	0
18		375.7	4.5	1.2	5.9	5.8	2
19		475.3	4.7	.6	5.3	5.3	0
20		575.3	4.4	.9	5.6	5.4	3
21	12 57	074.9	4.5	.9	5.1	5.0	2
22		175.3	4.9	.4	5.1	5.2	2
23		275.0	4.9	.1	4.8	4.9	2
24		374.9	4.6	.3	5.0	5.0	1
25		474.9	5.1	.2	4.5	4.7	4
26		575.2	4.9	.3	5.0	5.1	2
27	58	074.8	4.3	.5	5.2	5.0	4
28		175.0	4.7	.3	5.0	5.0	0
29		274.9	4.6	.3	5.0	5.0	1
30		375.0	4.6	.4	5.1	5.0	1
31	12 58	474.8	4.6	.2	4.9	4.8	1
32		574.7	4.9	.2	4.5	4.6	2
33	12 59	074.7	4.7	.0	4.7	4.7	0
34	12 59	174.3	4.3	.0	4.7	4.5	4

10/484  
4.8

Sum  
Mean

1173  
4.7

Those in red ink remeasured by Lynn. Book 11, p. 41. Remeasures of those marked with v may also be found there.



Copied from Book 7

41

Tee

C 4086 Oct. 23, 1891. Imp. Ec I Re.

	G. W. J.								
1	11	13	32	8.8	5.4	3.4	8.6 <sup>✓</sup>	8.7 <sup>✓</sup>	.2
2			42	7.6	5.2	2.4	7.6 <sup>✓</sup>	7.6 <sup>✓</sup>	0
3			52	6.8	5.3	1.5	6.7 <sup>✓</sup>	6.8 <sup>✓</sup>	.1
4		14	02	7.2	5.4	1.8	7.0 <sup>✓</sup>	7.1 <sup>✓</sup>	.2
5			12	6.6	5.2	1.4	6.6 <sup>✓</sup>	6.6 <sup>✓</sup>	0
6			22	6.2	5.2	1.0	6.2 <sup>✓</sup>	6.2 <sup>✓</sup>	0
7			32	5.8	5.3	.5	5.7 <sup>✓</sup>	5.8 <sup>✓</sup>	.1
8			42	5.8	5.3	.5	5.7 <sup>✓</sup>	5.8 <sup>✓</sup>	.1
9			52	5.5	5.3	.2	5.4 <sup>✓</sup>	5.4 <sup>✓</sup>	.1
10		15	02	5.3	5.2	.1	5.3 <sup>✓</sup>	5.3 <sup>✓</sup>	0
11	11	15	12	5.5	5.4	.1	5.3 <sup>✓</sup>	5.4 <sup>✓</sup>	.2
12			22	5.1	5.2	.1	5.1 <sup>✓</sup>	5.1 <sup>✓</sup>	0
13			32	4.8	5.2	.4	4.8 <sup>✓</sup>	4.8 <sup>✓</sup>	0
14			42	5.2	5.4 <sup>✓</sup>	.2	5.0 <sup>✓</sup>	5.1 <sup>✓</sup>	.2
15			52	4.2	3.1 <sup>4.7</sup>	1.1 <sup>4.8</sup>	5.1 <sup>✓</sup>	4.9 <sup>✓</sup>	.4
16		16	02	4.9	5.2 <sup>✓</sup>	.3	4.9 <sup>✓</sup>	4.9 <sup>✓</sup>	0
17			12	4.7	5.2	.5	4.7 <sup>✓</sup>	4.7 <sup>✓</sup>	0
18			22	4.7	5.4	.7	4.5 <sup>✓</sup>	4.6 <sup>✓</sup>	.2
19			32	4.4	5.2	.8	4.4 <sup>✓</sup>	4.4 <sup>✓</sup>	0
20			42	4.3	5.0	.7	4.5 <sup>✓</sup>	4.4 <sup>✓</sup>	.2
21	11	16	52	3.8	4.8 <sup>✓</sup>	1.0	4.2 <sup>✓</sup>	4.0 <sup>✓</sup>	.4
22		17	02	4.3	4.9	.6	4.6 <sup>✓</sup>	4.4 <sup>✓</sup>	.3
23			12	4.6	5.3	.7	4.5 <sup>✓</sup>	4.6 <sup>✓</sup>	.1
24			22	4.6	5.0	.4	4.8 <sup>✓</sup>	4.7 <sup>✓</sup>	.2
25	11	17	32	4.2	5.3	1.1	4.1 <sup>✓</sup>	4.2 <sup>✓</sup>	.1

measures in red from Book 11, pp. 52 & 49  
 ✓ Remasurement does not change these measures indicated  
 Sum 1301<sup>✓</sup>  
 mean 5.2<sup>✓</sup>



## Copied from Book 7

C 5224 Dec. 10, 1892 Jup. Ec. I Re.

3	15	08	35	-	-	-	✓		
4	15	08	45	7.7	5.0	2.7	7.6 <sup>✓</sup>	7.6 <sup>✓</sup>	.1
5	15	08	55	7.7	5.1	2.6	7.5 <sup>✓</sup>	7.6 <sup>✓</sup>	.2
6	15	09	05	7.3	4.9	2.4	7.3 <sup>✓</sup>	7.3 <sup>✓</sup>	0
7	15	09	15	7.1	4.8	2.3	7.2 <sup>✓</sup>	7.2 <sup>✓</sup>	.1
8	15	09	25	7.1	5.0	2.1	7.0 <sup>✓</sup>	7.0 <sup>✓</sup>	.1
9	15	09	35	6.6	5.2	1.4	6.3 <sup>✓</sup>	6.4 <sup>✓</sup>	.3
10	15	09	45	6.2	4.9	1.3	6.2 <sup>✓</sup>	6.2 <sup>✓</sup>	0
11	15	09	55	6.2	4.9	1.3	6.2 <sup>✓</sup>	6.2 <sup>✓</sup>	0
12	15	10	05	6.3	5.2	1.1	6.0 <sup>✓</sup>	6.2 <sup>✓</sup>	.3
13	15	10	15	5.7	4.8	.9	5.8 <sup>✓</sup>	5.8 <sup>✓</sup>	.1
14	15	10	25	5.7	4.8	.9	5.8 <sup>✓</sup>	5.8 <sup>✓</sup>	.1
15	15	10	35	5.1	4.2 <sup>✓</sup>	.9	5.8 <sup>✓</sup>	5.4 <sup>✓</sup>	.7
16	15	10	45	5.4	4.8	.6	5.5 <sup>✓</sup>	5.4 <sup>✓</sup>	.1
17	15	10	55	5.6	4.7	.9	5.8 <sup>✓</sup>	5.7 <sup>✓</sup>	.2
18	15	11	05	5.5	4.9	.6	5.5 <sup>✓</sup>	5.5 <sup>✓</sup>	0
19	15	11	15	5.3	5.0	.3	5.2 <sup>✓</sup>	5.2 <sup>✓</sup>	.1
20	15	11	25	5.3	4.8	.5	5.4 <sup>✓</sup>	5.4 <sup>✓</sup>	.1
21	15	11	35	5.5	4.9	.6	5.5 <sup>✓</sup>	5.5 <sup>✓</sup>	0
22	15	11	45	5.3	5.2	.1	5.0 <sup>✓</sup>	5.2 <sup>✓</sup>	.3
23	15	11	55	4.8	5.3	.5	4.4 <sup>✓</sup>	4.6 <sup>✓</sup>	.4
24	15	12	05	5.1	5.2	.1	4.8 <sup>✓</sup>	5.0 <sup>✓</sup>	.3
25	15	12	15	4.8	4.8	0	4.9 <sup>✓</sup>	4.8 <sup>✓</sup>	.1
26	15	12	25	5.2	5.1	.1	5.0 <sup>✓</sup>	5.1 <sup>✓</sup>	.2
27	15	12	35	4.8	5.1	.3	4.6 <sup>✓</sup>	4.7 <sup>✓</sup>	.2

✓ Remeasurement does not change measures marked thus ✓  
 Sum 1186<sup>✓</sup>  
 Mean 4.9<sup>✓</sup>

5) 242  
408



Copied from Book 7

48

TEE

C 6127 Oct. 21, 1893. Jup. Ec. I 11.15.

15	13	57	45	3.3	3.1	.2	4.0 <sup>✓</sup>	3.6 <sup>✓</sup>	.7
16	13	57	55	4.2	3.9	.3	4.1 <sup>✓</sup>	4.2 <sup>✓</sup>	.1
17	13	58	05	4.2	3.8	.4	4.2 <sup>✓</sup>	4.2 <sup>✓</sup>	0
18	13	58	15	4.1	3.7	.4	4.2 <sup>✓</sup>	4.2 <sup>✓</sup>	.1
19	13	58	25	4.3	3.8	.5	4.3 <sup>✓</sup>	4.3 <sup>✓</sup>	0
20	13	58	35	4.2	3.6	.6	4.4 <sup>✓</sup>	4.3 <sup>✓</sup>	.2
21	13	58	45	4.2	3.3	.9	4.7 <sup>✓</sup>	4.4 <sup>✓</sup>	.5
22	13	58	55	4.4	3.4	1.0	4.8 <sup>✓</sup>	4.6 <sup>✓</sup>	.4
23	13	59	05	4.3	3.6	.7	4.5 <sup>✓</sup>	4.4 <sup>✓</sup>	.2
24	13	59	15	5.0	3.9	1.1	4.9 <sup>✓</sup>	5.0 <sup>✓</sup>	.1
25	13	59	25	4.8	4.2	.6	4.4 <sup>✓</sup>	4.6 <sup>✓</sup>	.4
26	13	59	35	4.8	3.9	.9	4.7 <sup>✓</sup>	4.8 <sup>✓</sup>	.1
27	13	59	45	5.0	4.0	1.0	4.8 <sup>✓</sup>	4.9 <sup>✓</sup>	.2
28	13	59	55	5.5	4.2	1.3	5.1 <sup>✓</sup>	5.3 <sup>✓</sup>	.4
29	14	00	05	5.2	4.0	1.2	5.0 <sup>✓</sup>	5.1 <sup>✓</sup>	.2
30	14	00	15	5.3	4.1	1.2	5.0 <sup>✓</sup>	5.2 <sup>✓</sup>	.3
31	14	00	25	5.5	3.8	1.7	5.5 <sup>✓</sup>	5.5 <sup>✓</sup>	0
32	14	00	35	5.8	4.1	1.7	5.5 <sup>✓</sup>	5.6 <sup>✓</sup>	.3
33	14	00	45	6.6	4.3	2.3	6.1 <sup>✓</sup>	6.4 <sup>✓</sup>	.5
34	14	00	55	6.3	3.4 <sup>✓</sup>	2.9	6.7 <sup>✓</sup>	6.5 <sup>✓</sup>	.4
35	14	01	05	6.8	3.7	3.1	6.9 <sup>✓</sup>	6.8 <sup>✓</sup>	.1
36	14	01	15	7.4	3.9	3.5	7.3 <sup>✓</sup>	7.4 <sup>✓</sup>	.1
37	14	01	25	7.3	3.8	3.5	7.3 <sup>✓</sup>	7.3 <sup>✓</sup>	0
38	14	01	35	-	-	-			
39	14	01	45	-	-	-			

✓ indicates no change on remeasurement.

Sum 875<sup>✓</sup>mean 3.8<sup>✓</sup>



44  
TEE

Copied from Book 7

C 6407 Dec. 31, 1893. Jup. Ec. I Re.

6	11	20	26	7.8	3.7	4.1	7.8 <sup>v</sup>	7.8 <sup>v</sup>	0
7	11	20	36	7.3	3.6	3.7	7.4 <sup>v</sup>	7.4 <sup>v</sup>	.1
8	11	20	46	6.7	3.4	3.3	7.0 <sup>v</sup>	6.8 <sup>v</sup>	.3
9	11	20	56	5.8	3.5	2.3	6.0 <sup>v</sup>	5.9 <sup>v</sup>	.2
10	11	21	06	5.5	3.4	2.1	5.8 <sup>v</sup>	5.6 <sup>v</sup>	.3
11	11	21	16	5.4	3.2	2.2	5.9 <sup>v</sup>	5.6 <sup>v</sup>	.5
12	11	21	26	5.3	3.3	2.0	5.7 <sup>v</sup>	5.5 <sup>v</sup>	.4
13	11	21	36	5.2	3.6	1.6	5.3 <sup>v</sup>	5.2 <sup>v</sup>	.1
14	11	21	46	4.6 <sup>v</sup>	3.6	1.0	4.7 <sup>v</sup>	4.6 <sup>v</sup>	.1
15	11	21	56	4.4 <sup>v</sup>	3.8	2.0	4.3 <sup>v</sup>	4.4 <sup>v</sup>	.1
16	11	22	06	4.4 <sup>v</sup>	3.4	1.0	4.7 <sup>v</sup>	4.6 <sup>v</sup>	.3
17	11	22	16	4.8	3.9	.9	4.6 <sup>v</sup>	4.7 <sup>v</sup>	.2
18	11	22	26	4.6	3.7	.9	4.6 <sup>v</sup>	4.6 <sup>v</sup>	.0
19	11	22	36	4.4	4.1	.3	4.0 <sup>v</sup>	4.2 <sup>v</sup>	.4
20	11	22	46	4.6	4.2	.4	4.1 <sup>v</sup>	4.4 <sup>v</sup>	.5
21	11	22	56	4.2	3.3 <sup>v</sup>	.9	4.6 <sup>v</sup>	4.4 <sup>v</sup>	.4
22	11	23	06	4.6	4.1	.5	4.2 <sup>v</sup>	4.4 <sup>v</sup>	.4
23	11	23	16	4.3	3.8	.5	4.2 <sup>v</sup>	4.2 <sup>v</sup>	.1
24	11	23	26	3.4 <sup>v</sup>	3.3 <sup>v</sup>	.1	3.8 <sup>v</sup>	3.6 <sup>v</sup>	.4
25	11	23	36	3.9	3.8	.1	3.8 <sup>v</sup>	3.8 <sup>v</sup>	.1
26	11	23	46	3.7	3.6	.1	3.8 <sup>v</sup>	3.8 <sup>v</sup>	.1
27	11	23	56	4.0	3.9	.1	3.8 <sup>v</sup>	3.9 <sup>v</sup>	.2
28	11	24	06	3.6	3.8	.2	3.5 <sup>v</sup>	3.6 <sup>v</sup>	.1
29	11	24	16	4.0	3.4	.6	4.3 <sup>v</sup>	4.2 <sup>v</sup>	.3
30	11	24	26	4.0	3.9	.1	3.8 <sup>v</sup>	3.9 <sup>v</sup>	.2

measures in blue from Book 11, p. 48

" " red " " " 11, p. 52

Vindicates no change on remeasurement.

Sum 913  
mean 3.7<sup>v</sup>



Copied from Book 7

45

T.E.

C6602 Feb. 22, 1894. Jup. Ec. I R.E.

2	13	49	16	—	—	—			
3	13	49	26	—	—	—	✓	✓	
4	13	49	36	7.7	5.6	2.1	8.1	7.9 <sup>✓</sup>	.4
5	13	49	46	7.6	5.7	1.9	7.9	7.8 <sup>✓</sup>	.3
6	13	49	56	7.4	5.7	1.7	7.7	7.6 <sup>✓</sup>	.3
7	13	50	06	6.7 <sup>✓</sup>	6.6 <sup>✓</sup>	.1	6.1	6.4 <sup>✓</sup>	.6
8	13	50	16	7.3 <sup>✓</sup>	6.1 <sup>✓</sup>	1.2	7.2	7.2 <sup>✓</sup>	.1
9	13	50	26	6.3	5.7	.6	6.6	6.4 <sup>✓</sup>	.3
10	13	50	36	6.1	5.5	.6	6.6	6.4 <sup>✓</sup>	.5
11	13	50	46	5.8	5.2 <sup>✓</sup>	.6	6.6	6.2 <sup>✓</sup>	.8
12	13	50	56	6.1	5.8	.3	6.3	6.2 <sup>✓</sup>	.2
13	13	51	06	6.7	6.5	.2	6.2	6.4 <sup>✓</sup>	.5
14	13	51	16	6.8	7.1 <sup>✓</sup>	.3	5.7	6.2 <sup>✓</sup>	1.1
15	13	51	26	5.9	6.2	.3	5.7	5.8 <sup>✓</sup>	.2
16	13	51	36	5.9	5.8	.1	6.1	6.0 <sup>✓</sup>	.2
17	13	51	46	5.4	5.2 <sup>✓</sup>	.2	6.2	5.8 <sup>✓</sup>	.8
18	13	51	56	5.2	5.3	.1	5.9	5.6 <sup>✓</sup>	.7
19	13	52	06	5.3	5.6	.3	5.7	5.5 <sup>✓</sup>	.4
20	13	52	16	5.2	5.4 <sup>✓</sup>	.2	5.8	5.5 <sup>✓</sup>	.6
21	13	52	26	5.9	6.2	.3	5.7	5.8 <sup>✓</sup>	.2
22	13	52	36	6.3	6.7	.4	5.6	6.0 <sup>✓</sup>	.7
23	13	52	46	5.8 <sup>✓</sup>	6.2 <sup>✓</sup>	.4	5.6	5.7 <sup>✓</sup>	.2
24	13	52	56	6.3	6.7	.4	5.6	6.0 <sup>✓</sup>	.7
25	13	53	06	6.6	7.1 <sup>6.5</sup>	.5	5.5 <sup>6.1</sup>	6.4 <sup>✓</sup>	1.1 <sup>.5</sup>
26	13	53	16	5.8	6.2	.4	5.6	5.7 <sup>✓</sup>	.2

Remeasurement of 25C from Book 11, p. 55

✓ indicates a change on remeasurement.

Sum 138<sup>75</sup>  
Mean 6.0<sup>✓</sup>10 | 580  
5.8



## Copied from Book 7

C 7439 Jan. 19, 1895. Inf. Ec I Rr.

3	12	56	09	9.2	4.7	4.5	9.2	9.2 <sup>✓</sup>	0
4	12	56	19	9.0	4.6	4.4	9.1	9.0 <sup>✓</sup>	.1
5	12	56	29	7.4	4.5	2.9	7.6	7.5 <sup>✓</sup>	.2
6	12	56	39	<sup>7.1</sup> 7.4	<sup>4.3</sup> 4.5	<sup>2.8</sup> 2.9	7.5	7.3 <sup>✓</sup>	.4
7	12	56	49	6.8	<sup>4.9</sup> 4.2	<sup>1.9</sup> 2.6	6.6	6.7 <sup>✓</sup>	.2
8	12	56	59	6.2	4.9 <sup>✓</sup>	1.3	6.0	6.1 <sup>✓</sup>	.2
9	12	57	09	5.8	4.3	1.5	6.2	6.0 <sup>✓</sup>	.4
10	12	57	19	5.8	4.4	1.4	6.1	6.0 <sup>✓</sup>	.3
11	12	57	29	5.6	4.6	1.0	5.7	5.6 <sup>✓</sup>	.1
12	12	57	39	5.4	4.3	1.1	5.8	5.6 <sup>✓</sup>	.4
13	12	57	49	5.7	4.9 <sup>✓</sup>	.8	5.5	5.6 <sup>✓</sup>	.2
14	12	57	59	5.3	4.5 <sup>✓</sup>	.8	5.5	5.4 <sup>✓</sup>	.2
15	12	58	09	5.7	5.2 <sup>✓</sup>	.5	5.2	5.4 <sup>✓</sup>	.5
16	12	58	19	5.1	<sup>4.9</sup> 4.3	<sup>.2</sup> .8	4.9	5.0 <sup>✓</sup>	.2
17	12	58	29	4.8	4.6	.2	4.9	4.8 <sup>✓</sup>	.1
18	12	58	39	4.8	4.7	.1	4.8	4.8 <sup>✓</sup>	0
19	12	58	49	5.1	5.2 <sup>✓</sup>	.1	4.6	4.7 <sup>✓</sup>	.5
20	12	58	59	4.6	4.7	.1	4.6	4.6 <sup>✓</sup>	0
21	12	59	09	4.4	4.8	.4	4.3	4.4 <sup>✓</sup>	.1
22	12	59	19	4.4	4.5	.1	4.6	4.5 <sup>✓</sup>	.2
23	12	59	29	4.4	4.4	0	4.7	4.6 <sup>✓</sup>	.3
24	12	59	39	4.5	4.7	.2	4.5	4.5 <sup>✓</sup>	0
25	12	59	49	5.2 <sup>✓</sup>	5.4 <sup>✓</sup>	.2	4.5	4.8 <sup>✓</sup>	.7
26	12	59	59	4.4	4.7	.3	4.4	4.4 <sup>✓</sup>	0
27	13	.00	09	4.3	4.8	.5	4.2	4.2 <sup>✓</sup>	.1

measures in red from Book 11, p. 52 & p. 49.  
 ✓ indicates no change on remeasurement  
 Sum 1175<sup>✓</sup>  
 mean 4.7<sup>✓</sup>



Copied from Book 7

47

TEE

C 9008 Mch. 31, 1896. Jup. Ec. I R<sub>E</sub>.

1	16	44	26	9.2	4.7	4.5	9.2	9.2 <sup>✓</sup>	0
2	16	44	34	7.7	4.4	3.3	8.0	7.8 <sup>✓</sup>	.3
3	16	44	43	7.2	4.5	2.7	7.4	7.3 <sup>✓</sup>	.2
4	16	44	51	6.8	4.8	2.0	6.7	6.8 <sup>✓</sup>	.1
5	16	44	59	6.3	4.5	1.8	6.5	6.4 <sup>✓</sup>	.2
6	16	45	08	6.2	4.7	1.5	5.7	6.0 <sup>✓</sup>	.5
7	16	45	16	6.0	5.3 <sup>✓</sup>	.7	5.4	5.7 <sup>✓</sup>	.6
8	16	45	25	5.7	4.7	1.0	5.7	5.7 <sup>✓</sup>	0
9	16	45	33	5.8 <sup>✓</sup>	4.7	1.6	5.8	5.8 <sup>✓</sup>	0
10	16	45	41	5.5 <sup>✓</sup>	4.5	1.0	5.7	5.6 <sup>✓</sup>	.2
11	16	45	49	5.8	4.6	1.2	5.9	5.8 <sup>✓</sup>	.1
12	16	45	57	5.7	4.5	1.2	5.9	5.8 <sup>✓</sup>	.2
13	16	46	06	5.3	4.5	.8	5.5	5.4 <sup>✓</sup>	.2
14	16	46	14	5.4	4.5	.9	5.6	5.5 <sup>✓</sup>	.2
15	16	46	22	5.4	4.6	.8	5.5	5.4 <sup>✓</sup>	.1
16	16	46	30	5.6	4.8	.8	5.5	5.6 <sup>✓</sup>	.1
17	16	46	38	5.3	4.6	.7	5.4	5.4 <sup>✓</sup>	.1
18	16	46	46	5.8	5.2	.6	5.3	5.6 <sup>✓</sup>	.5
19	16	46	55	5.6	5.0	.6	5.3	5.4 <sup>✓</sup>	.3
20	16	47	03	5.2	4.7	.5	5.2	5.2 <sup>✓</sup>	0
21	16	47	11	5.4	4.6	.8	5.5	5.4 <sup>✓</sup>	.1
22	16	47	19	5.0	4.4	.6	5.3	5.2 <sup>✓</sup>	.3
23	16	47	27	5.2	4.6	.6	5.3	5.2 <sup>✓</sup>	.1
24	16	47	35	5.4	5.0	.4	5.1	5.2 <sup>✓</sup>	.3
25	16	47	44	4.8	4.3	.5	5.2	5.0 <sup>✓</sup>	.4

Measures in red from Book 11, p. 53.  
 ✓ indicates no change on remeasurement  
 Sum 1172<sup>✓</sup>  
 Mean 4.7<sup>✓</sup>



Copied from Book 7

C 9157 May 1, 1896. Jup. Ec II Re.

G.M. J.

8	Exposures of 8.25.	14	50	06	9.5	6.9	2.6	9.4	9.4	.1
9		14	50	14	9.3	6.8	2.5	9.3	9.3	0
10		14	50	22	8.2	6.7	1.5	8.3	8.2	.1
11		14	50	30	7.8	6.9	.9	7.7	7.8	.1
12		14	50	39	7.7	6.5	1.2	8.0	7.8	.3
13		14	50	47	7.5	6.6	.9	7.7	7.6	.2
14		14	50	55	6.8	6.8	0	6.8	6.8	0
15		14	51	03	6.8	6.7	.1	6.9	6.8	.1
16		14	51	11	6.6	6.8	.2	6.6	6.6	0
17		14	51	19	6.2	6.5	.3	6.5	6.4	.3
18		14	51	27	6.3	6.7	.4	6.4	6.4	.1
19		14	51	35	6.7	7.1	.4	6.4	6.6	.3
20	Exposures of 8.15.	14	51	43	5.8	6.7	.9	5.9	5.8	.1
21		14	51	52	5.8	6.7	.9	5.9	5.8	.1
22		14	52	00	5.8	6.8	1.0	5.8	5.8	0
23		14	52	08	5.7	6.7	1.0	5.8	5.8	.1
24		14	52	16	5.8	6.8	1.0	5.8	5.8	0
25		14	52	24	5.7	6.7	1.0	5.8	5.8	.1
26		14	52	32	5.7	6.7	1.0	5.8	5.8	.1
27		14	52	40	5.6	6.8	1.2	5.6	5.6	0
28		14	52	48	5.6	6.8	1.2	5.6	5.6	0
29		14	52	56	5.6	6.8	1.2	5.6	5.6	0
30		14	53	04	5.5	6.7	1.2	5.6	5.6	.1
31		14	53	12	5.6	6.8	1.2	5.6	5.6	0
32		14	53	21	5.3	6.8	1.5	5.3	5.3	0

Indicates no change on remeasurement.

Sum 1688  
Mean 6.8

27



Copied from Book 7.

49

122

C 95<sup>75</sup> 74 Dec. 7, 1896. Jup. Ec II Hlis.

15	20	00	45	6.5	7.1	.6	6.2	6.4 <sup>✓</sup>	.3
16	20	00	55	6.5	6.7	.2	6.6	6.6 <sup>✓</sup>	.1
17	20	00	05	6.3	6.9	.6	6.2	6.2 <sup>✓</sup>	.1
18	20	01	15	6.5	6.8	.3	6.5	6.5 <sup>✓</sup> $\frac{7.21}{6.4}$	0
19	20	01	25	6.4	6.7	.3	6.5	6.4 <sup>✓</sup>	.1
20	20	01	35	6.2	6.6	.4	6.4	6.3 <sup>✓</sup>	.2
21	20	01	45	6.7	6.8	.1	6.7	6.7 <sup>✓</sup>	0
22	20	01	55	6.6	7.1	.5	6.3	6.4 <sup>✓</sup>	.3
23	20	02	05	6.7	7.1	.4	6.4	6.6 <sup>✓</sup>	.3
24	20	02	15	6.8	6.8	0	6.8	6.8 <sup>✓</sup>	0
25	20	02	25	6.8	6.8	0	6.8	6.8 <sup>✓</sup>	0
26	20	02	35	6.8	6.8	0	6.8	6.8 <sup>✓</sup>	0
27	20	02	45	6.6	6.6	0	6.8	6.7 <sup>✓</sup>	.2
28	20	02	55	7.0	6.8	.2	7.0	7.0 <sup>✓</sup>	0
29	20	03	05	7.2	7.0	.2	7.0	7.1 <sup>✓</sup>	.2
30	20	03	15	6.8	6.6	.2	7.0	6.9 <sup>✓</sup>	.2
31	20	03	25	7.3	6.7	.6	7.4	7.4 <sup>✓</sup>	.1
32	20	03	35	7.7	6.8	.9	7.7	7.7 <sup>✓</sup>	0
33	20	03	45	7.6	6.8	.8	7.6	7.6 <sup>✓</sup>	0
34	20	03	55	7.8	6.6 <sup>✓</sup>	1.2	8.0	7.9 <sup>✓</sup>	.2
35	20	04	05	6.8 <sup>7.8</sup>	7.3 <sup>6.8</sup>	.5 <sup>1.0</sup>	7.8	7.8 <sup>✓</sup>	0
36	20	04	15	8.2	7.0	1.2	8.0	8.1 <sup>✓</sup>	.2
37	20	04	25	8.4	7.2	1.2	8.0	8.2 <sup>✓</sup>	.4
38	20	04	35	8.3	6.8	1.5	8.3	8.3 <sup>✓</sup>	0
39	20	04	45	9.2	7.2	2.0	8.8	9.0 <sup>✓</sup>	.4

Measures in blue from Book 11, p. 48.

" " red " " 11, p. 53.

✓ Indicates no change on remeasurement.

from 1711<sup>✓</sup>  
mean 6.8<sup>✓</sup>



Copied from Book 7

C9756 Dec 7, 1896 Inf. Ec I His.

Apparently signals were alternate  $8 + 2^s$  till after the 17<sup>th</sup> image when they  
to  $10^s$  signals. Image 17 = 20<sup>s</sup> exposure. H. R. C.

10	22	03	35	7.7	7.2	.5	7.4	7.6✓	.3
11	22	03	45	7.1	6.9	.2	7.1	7.1✓	0
12	22	03	55	7.4	7.2	.2	7.1	7.2✓	.3
13	22	04	05	7.4	7.2	.2	7.1	7.2✓	.3
14	22	04	15	7.1	7.2	.1	6.8	7.0✓	.3
15	22	04	25	7.1	7.0	.1	7.0	7.0✓	.1
16	22	04	35	7.4	7.2✓	.2	7.1	7.2✓	.3
17	(Exch 20s)	22	04	51	6.7	5.8✓	7.8	7.2✓	1.1
18	22	05	06	7.4	7.2✓	.2	7.1	7.2✓	.3
19	22	05	16	7.4	7.2	.2	7.1	7.2✓	.3
20	22	05	26	7.4	7.2	.2	7.1	7.2✓	.3
21	22	05	36	7.2	6.5	.7	7.6	7.4✓	.4
22	22	05	46	7.5	6.8	.7	7.6	7.6✓	.1
23	22	05	56	7.8	7.2	.6	7.5	7.6✓	.3
24	22	06	06	7.5	6.7	.8	7.7	7.6✓	.2
25	22	06	16	7.6	6.6	1.0	7.9	7.8✓	.3
26	22	06	26	7.9	7.0	.9	7.6	7.8✓	.1
27	22	06	36	8.0	6.9	1.1	8.0	8.0✓	0
28	22	06	46	8.6	6.3	2.3	8.6	8.6✓	0
29	22	06	56	8.0	6.8	1.2	8.1	8.0✓	.1
30	22	07	06	8.1	6.9	1.2	8.1	8.1✓	0
31	22	07	16	8.5	7.0	1.5	8.0	8.0✓	.1
32	22	07	26	7.8	6.9	.9	7.6	7.6✓	0
33	22	07	36	7.7	7.0	.7	7.6	7.6✓	.1
34	22	07	46	8.3	7.1	1.2	8.1	8.2✓	.2

10/719  
72

There are however  
Stavrichanoff &  
Haltli.  
Made Nov 30, 1907

measures in blue focus Book II, p. 48  
" " red " " " " " " " " " " " "

✓ Indicates no change on remeasurement.

$$\begin{array}{r}
 1735 \\
 210 \\
 \hline
 1525 \\
 128 \\
 \hline
 145 \\
 205 \\
 \hline
 198
 \end{array}$$



C 9798 Dec. 14, 1896. Jup. Ec II hlio.

13	22	36	245.7 5.8	.1	5.9	5.8✓	.2
14	22	36	345.8 5.9	.1	5.9	5.8✓	.1
15	22	36	445.8 5.6	.2	6.2	6.0✓ 5.41	.4
16	22	36	545.7 5.8✓	.1	5.9	5.8✓ 5.8	.2
17	22	37	045.7 5.3 <sup>6.0</sup>	.4 <sup>.3</sup>	5.7	5.7✓	0
18	22	37	146.2 6.3	.1	5.9	6.0✓	.3
19	22	37	246.1 6.2	.1	5.9	6.0✓	.2
20	22	37	346.0 6.2	.2	5.8	5.9✓	.2
21	22	37	445.9 5.8	.1	6.1	6.0✓	.2
22	22	37	546.5 6.1	.4	6.4	6.4✓	.1
23	22	38	046.5 6.1	.4	6.4	6.4✓	.1
24	22	38	146.4 5.8	.6	6.6	6.5✓	.2
25	22	38	246.5 5.9	.6	6.6	6.6✓	.1
26	22	38	346.7 6.2	.5	6.5	6.6✓	.2
27	22	38	446.7 5.8	.9	6.9	6.8✓	.2
28	22	38	547.2 6.2	1.0	7.0	7.1✓	.2
29	22	39	047.2 6.2	1.0	7.0	7.1✓	.2
30	22	39	147.3 6.2	1.1	7.1	7.2✓	.2
31	22	39	247.2 6.0	1.2	7.2	7.2✓	0
32	22	39	347.2 6.0	1.2	7.2	7.2✓	0
33	22	39	447.3 6.1	1.2	7.2	7.2✓	.1
34	22	39	547.4 6.0	1.4	7.4	7.4✓	0
35	22	40	048.2 6.3	1.9	7.9	8.0✓	.3
36	22	40	148.6 6.4	2.2	8.2	8.4✓	.4
37	22	40	248.5 6.3	2.2	8.2	8.4✓	.3

Measures in red from Book 11, p. 53.  
✓ indicates no change on remeasurement.

Sum 1505 1512  
Mean 6.0 6.0✓



Copied from Book 7.

C 9855 Dec. 30, 1896. Jup. Ec. I. Illis.

16	22	10	14	5.3	4.8	.5	5.6	5.4 ✓	.3
17	22	10	24	5.4	4.7	.7	5.8	5.6 ✓	.4
18	22	10	34	5.8	5.2	.6	5.7	5.8 ✓	.1
19	22	10	44	5.8	5.2	.6	5.7	5.8 ✓	.1
20	22	10	54	5.7	5.2	.5	5.6	5.6 ✓	.1
21	22	11	04	5.4	5.1	.3	5.4	5.4 ✓	0
22	22	11	14	5.8	5.4	.4	5.5	5.6 ✓	.3
23	22	11	24	5.7	5.2	.5	5.6	5.6 ✓	.1
24	22	11	34	5.6	5.2	.4	5.5	5.6 ✓	.1
25	22	11	44	5.8	5.3	.5	5.6	5.7 ✓	.2
26	22	11	54	6.1	5.3	.8	5.9	6.0 ✓	.2
27	22	12	04	6.0	5.1	.9	6.0	6.0 ✓	0
28	22	12	14	6.0	5.0	1.0	6.1	6.0 ✓	.1
29	22	12	24	6.2	5.2	1.0	6.1	6.2 ✓	.1
30	22	12	34	6.2	5.2	1.0	6.1	6.2 ✓	.1
31	22	12	44	5.9	4.8	1.1	6.2	6.0 ✓	.3
32	22	12	54	6.7	5.0	1.7	6.8	6.8 ✓	.1
33	22	13	04	6.8	5.2	1.6	6.7	6.8 ✓	.1
34	22	13	14	7.1	5.0	2.1	7.2	7.2 ✓	.1
35	22	13	24	7.0	5.2	1.8	6.9	7.0 ✓	.1
36	22	13	34	7.1	4.8	2.3	7.4	7.2 ✓	.3
37	22	13	44	7.7	5.2	2.5	7.6	7.6 ✓	.1
38	22	13	54	7.8	5.4	2.4	7.5	7.6 ✓	.3
39	22	14	04	8.8	5.5	3.3	8.4	8.6 ✓	.4
40	22	14	14	9.5	5.2	4.3	9.4	9.4 ✓	.1

✓ indicates no change on remeasurement.  
 Sum 1284 ✓  
 Mean 5.1 ✓



Copied from Book 7.

53

Thibault

C 9980 Jan. 31, 1897. Jup. Ec. I. Mis.

Gm. J.

12	18	39	57	5.5	4.1	1.4	5.1	5.3 <sup>✓</sup>	.4
13	18	40	05	5.4	4.3	2.0	5.7	5.5 <sup>✓</sup>	.4
14	18	40	13	5.3	4.0	1.3	5.0	5.2 <sup>✓</sup>	.3
15	18	40	21	5.2	3.4	1.8	5.5	5.4 <sup>✓</sup>	.3
16	18	40	29	5.4	4.3	1.1	4.8	5.1 <sup>✓</sup>	.6
17	18	40	38	5.5	4.5	1.0	4.7	5.1 <sup>✓</sup>	.8
18	18	40	46	5.7	4.3	1.4	5.1	5.4 <sup>✓</sup>	.6
19	18	40	54	5.6	4.2	1.4	5.1	5.4 <sup>✓</sup>	.5
20	18	41	02	5.3	4.3	1.0	4.7	5.0 <sup>✓</sup>	.6
21	18	41	10	5.5	3.7	1.8	5.5	5.3 <sup>✓</sup>	0
22	18	41	18	6.0	3.6	2.4	6.1	6.0 <sup>✓</sup>	.1
23	18	41	27	6.2	3.3	2.9	6.6	6.4 <sup>✓</sup>	.4
24	18	41	35	5.7	3.4	2.3	6.0	5.8 <sup>✓</sup>	.3
25	18	41	43	6.4	3.6	2.8	6.5	6.4 <sup>✓</sup>	.1
26	18	41	51	6.3	3.3	3.0	6.7	6.5 <sup>✓</sup>	.4
27	18	41	59	6.3	4.3	2.0	6.2	6.2 <sup>✓</sup>	.1
28	18	42	07	6.4	4.2	2.2	5.9	6.2 <sup>✓</sup>	.5
29	18	42	16	6.3	4.2	2.1	5.8	6.0 <sup>✓</sup>	.5
30	18	42	24	6.5	3.3	3.2	6.9	6.7 <sup>✓</sup>	.4
31	18	42	32	6.3	3.1	3.2	6.9	6.6 <sup>✓</sup>	.6
32	18	42	40	6.3	3.1	3.2	7.6	7.3 <sup>✓</sup>	.6
33	18	42	48	7.7	3.4	4.3	8.0	7.8 <sup>✓</sup>	.3
34	18	42	56	7.6	4.4	3.2	7.7	7.6 <sup>✓</sup>	.1
35	18	43	05	7.6	3.2	4.4	8.1	7.8 <sup>✓</sup>	.5
36	18	43	13	7.6	2.8	4.8	8.5	8.0 <sup>✓</sup>	.9

Length of exposures, 8.17 s.

Measures in red from Book 11, p. 53.  
✓ indicates no change on remeasurement.

Sum 91.7  
Mean 3.7<sup>✓</sup>



Copied from Book 7.

C 10002 Feb. 7, 1897. Inf. Ea. Illis.

12	20	32	56	7.3	5.3	2.0	7.4	7.4	✓	.1
13		33	04	7.0	5.3	1.7	7.1	7.0	✓	.1
14			13	6.8	5.7	1.1	6.5	6.6	✓	.3
15			21	7.4	5.3	2.1	7.5	7.4	✓	.1
16			29	7.2	5.4	1.8	7.2	7.2	✓	0
17			37	6.7	5.4	1.3	6.7	6.7	✓	0
18			45	6.8	5.5	1.3	6.7	6.8	✓	.1
19			53	7.3	5.3	2.0	7.4	7.4	✓	.1
20		34	01	6.8	5.2	1.6	7.0	6.9	✓	.2
21	20	34	09	6.9	5.3	1.6	7.0	7.0	✓	.1
22			17	7.0	5.4	1.6	7.0	7.0	✓	0
23			25	7.0	5.3	1.7	7.1	7.0	✓	.1
24			34	7.3	5.6	1.7	7.1	7.2	✓	.2
25			42	7.3	5.4	1.9	7.3	7.3	✓	0
26			50	7.6	5.4	2.2	7.6	7.6	✓	0
27			58	7.7	5.4	2.3	7.7	7.7	✓	0
28		35	06	7.8	5.8	2.0	7.4	7.6	✓	.4
29			14	7.4	5.4	2.0	7.4	7.4	✓	0
30			22	7.7	5.4	2.3	7.7	7.7	✓	0
31	20	35	30	7.7	5.3	2.4	7.8	7.8	✓	.1
32			38	7.9	5.8	2.1	7.5	7.7	✓	.4
33			46	8.6	5.7	2.9	8.3	8.4	✓	.3
34			55	8.3	5.2	3.1	8.5	8.4	✓	.2
35		36	03	9.2	5.2	3.5	9.4	9.3	✓	.2
36	20	36	11	9.2	5.4	3.8	9.2	9.2	✓	.4

Indicates no change on remeasurement.  
 Sum 1354 ✓  
 Mean 5.4 ✓



Copied from Book 7.

55

Thibault

C 11095 Wch 14, 1898. Jup. Ec II Klis.

	S. W. T.				✓	✓	
9	20	10	15	6.3 5.1 1.2	6.3	6.3 ✓	0
10			25	6.4 5.0 1.4	6.5	6.4 ✓	.1
11	20	10	35	6.1 5.2 .9	6.0	6.0 ✓	.1
12			45	5.8 4.9 .9	6.0	5.9 ✓	.2
13			55	6.3 4.9 1.4	6.5	6.4 ✓	.2
14		11	05	6.4 4.4 <sup>✓</sup> 2.0	7.1	6.8 ✓	.7
15			15	6.2 5.1 1.1	6.2	6.2 ✓	0
16			25	6.3 5.0 1.3	6.4	6.4 ✓	.1
17			35	6.8 5.3 1.5	6.6	6.7 ✓	.2
18			45	6.7 5.2 1.5	6.6	6.6 ✓	.1
19			55	6.7 5.2 1.5	6.6	6.6 ✓	.1
20		12	05	6.8 5.2 1.6	6.7	6.8 ✓	.1
21	20	12	15	6.8 5.3 1.5	6.6	6.7 ✓	.2
22			25	6.9 4.8 2.1	7.2	7.0 ✓	.3
23			35	7.1 5.2 1.9	7.0	7.0 ✓	.1
24			45	7.4 5.3 2.1	7.2	7.3 ✓	.2
25			55	7.2 5.2 2.0	7.1	7.2 ✓	.1
26		13	05	7.2 5.1 2.1	7.2	7.2 ✓	0
27			15	7.6 5.3 2.3	7.4	7.5 ✓	.2
28			25	8.2 5.2 3.0	8.1	8.2 ✓	.1
29			35	8.2 5.2 3.0	8.1	8.2 ✓	.1
30			45	8.3 5.2 3.0	8.2	8.2 ✓	.1
31	20	13	55	8.2 <sup>✓</sup> 5.2 3.0	8.1	8.2 ✓	.1
32		14	05	9.1 5.4 3.7	8.8	9.0 ✓	.3
33	20	14	15	8.8 5.0 3.8	8.9	8.8 ✓	.1

✓ Indicates no change on remeasurement.  
 Sum 1279  
 Mean 5.1

The above times may be 10 secs. too late.



Copied from Book 7.

C 133 85 July 15, 1901. Jup. Ec I Re.

G. W. T.

9	13	28	34	-	-	-			
10			44	9.3	6.8	2.5	9.3	9.3 ✓	0
11	13	28	54	8.8	6.8	2.0	8.8	8.8 ✓	0
12		29	04	8.2	6.7	1.5	8.3	8.2 ✓	.1
13			14	7.8	6.7	1.1	7.9	7.8 ✓	.1
14			24	7.6	6.8	.8	7.6	7.6 ✓	0
15			34	7.7	6.8	.9	7.7	7.7 ✓	0
16			44	7.4	6.8	.6	7.4	7.4 ✓	0
17			54	7.4	6.7	.7	7.5	7.4 ✓	.1
18		30	04	7.3	6.7	.6	7.4	7.4 ✓	.1
19			14	6.8	6.8	0	6.8	6.8 ✓	0
20			24	6.8	6.6	.2	7.0	6.9 ✓	.2
21	13	30	34	7.1	7.0	.1	6.9	7.0 ✓	.2
22			44	6.8	6.8	0	6.8	6.8 ✓	0
23			54	6.3	6.8	.5	6.3	6.3 ✓	0
24		31	04	6.3	6.6	.3	6.5	6.4 ✓	.2
25			14	6.2	6.5	.3	6.5	6.4 ✓	.3
26			24	6.3	6.8	.5	6.3	6.3 ✓	0
27			34	6.5	6.8	.3	6.5	6.5 ✓	0
28			44	6.7	7.0	.3	6.5	6.6 ✓	.2
29			54	6.4	6.8	.4	6.4	6.4 ✓	0
30		32	04	6.3	6.7	.4	6.4	6.4 ✓	.1
31	13	32	14	6.3	6.8	.5	6.3	6.3 ✓	0
32			24	6.2	6.7	.5	6.3	6.2 ✓	.1
33	13	32	34	6.3	6.8	.5	6.3	6.3 ✓	0

Reopened in Bk 4, p. 120.  
 Sum 1623  
 Mean 6.8



Copied from Book 7.

57

Thibault

C 13861 May 31, 1902. Jup. Ec I Alis.

14	19	30	59	5.1	4.2	.9	5.8	5.4 <sup>✓</sup>	.7
15	19	31	09	5.1	4.9	.2	5.1	5.1 <sup>✓</sup>	0
16	19	31	19	5.3	5.1	.2	5.1	5.2 <sup>✓</sup>	.2
17	19	31	29	5.3	5.2	.1	5.0	5.2 <sup>✓</sup> 4.11	.3
18	19	31	39	4.9	4.9	0	4.9	4.9 <sup>✓</sup> 5.1	0
19	19	31	49	5.2	5.2	0	4.9	5.0 <sup>✓</sup>	.3
20	19	31	59	5.2	5.2	0	4.9	5.0 <sup>✓</sup>	.3
21	19	32	09	5.2	4.7	.5	5.4	5.3 <sup>✓</sup>	.2
22	19	32	19	5.4	4.6	.8	5.7	5.6 <sup>✓</sup>	.3
23	19	32	29	5.2	4.3 <sup>✓</sup>	.9	5.8	5.5 <sup>✓</sup>	.6
24	19	32	39	5.6	5.0	.6	5.5	5.6 <sup>✓</sup>	.1
25	19	32	49	5.7	5.0	.7	5.6	5.6 <sup>✓</sup>	.1
26	19	32	59	5.7	4.9	.8	5.7	5.7 <sup>✓</sup>	0
27	19	33	09	5.4	5.2	.2	5.1	5.2 <sup>✓</sup>	.3
28	19	33	19	5.4	5.1	.3	5.2	5.3 <sup>✓</sup>	.2
29	19	33	29	5.6	4.7	.9	5.8	5.7 <sup>✓</sup>	.2
30	19	33	39	5.8	4.7	1.1	6.0	5.9 <sup>✓</sup>	.2
31	19	33	49	5.8 <sup>✓</sup>	4.4 <sup>✓</sup>	1.4	6.3	6.0 <sup>✓</sup>	.5
32	19	33	59	6.8	5.2	1.6	6.5	6.6 <sup>✓</sup>	.3
33	19	34	09	6.9	5.1	1.8	6.7	6.8 <sup>✓</sup>	.2
34	19	34	19	7.2	5.2	2.0	6.9	7.0 <sup>✓</sup>	.3
35	19	34	29	7.2	4.9	2.3	7.2	7.2 <sup>✓</sup>	0
36	19	34	39	7.3	4.8	2.5	7.4	7.4 <sup>✓</sup>	.1
37	19	34	49	7.9	5.2	2.7	7.6	7.8 <sup>✓</sup>	.3
38	19	34	59	9.5+	5.2	4.3+	9.2	9.4 <sup>✓</sup>	.3

✓ indicates no change on remeasurement.

Sum 1229.  
Mean 4.9



Copied from Book 7.

C13869 June 8, 1902. Jup. Ec II, 11.5.

13	19	23	16	3.3	3.8 <sup>✓</sup>	.5	3.7 <sup>6</sup>	3.5 <sup>4</sup> ✓	.4	2
14	19	23	26	3.2	3.7 <sup>✓</sup>	.5	3.7 <sup>6</sup>	3.4 <sup>✓</sup>	.5	4
15	19	23	36	4.2 <sup>3.5</sup>	4.7 <sup>3.8</sup>	.5	3.9 <sup>8</sup>	3.7 <sup>6</sup> ✓	.4	2
16	19	23	46	3.3 <sup>✓</sup>	3.8 <sup>✓</sup>	.5	3.7 <sup>6</sup>	3.5 <sup>4</sup> ✓	.4	2
17	19	23	56	3.8	3.9 <sup>✓</sup>	.1	4.1 <sup>0</sup>	4.0 <sup>✓</sup>	.3	2
18	19	24	06	3.6 <sup>✓</sup>	3.9 <sup>✓</sup>	.3	3.9 <sup>8</sup>	3.8 <sup>7</sup> ✓	.3	2
19	19	24	16	4.8	5.1 <sup>✓</sup>	.3	4.2 <sup>1</sup>	4.2 <sup>1</sup> ✓	.1	0
20	19	24	26	4.2	4.4 <sup>✓</sup>	.2	3.9 <sup>1</sup>	4.1 <sup>0</sup> ✓	.2	3
21	19	24	36	4.0	4.0 <sup>✓</sup>	0	4.2 <sup>1</sup>	4.1 <sup>✓</sup>	.2	1
22	19	24	46	4.6	4.4 <sup>✓</sup>	.2	4.4 <sup>3</sup>	4.2 <sup>✓</sup>	.3	2
23	19	24	56	3.5	3.4 <sup>✓</sup>	.1	4.8 <sup>2</sup>	3.9 <sup>✓</sup>	.8	2
24	19	25	06	4.2	4.3 <sup>✓</sup>	.1	4.1 <sup>0</sup>	4.2 <sup>1</sup> ✓	.1	2
25	19	25	16	4.5	3.8 <sup>✓</sup>	.7	4.9 <sup>8</sup>	4.7 <sup>6</sup> ✓	.4	2
26	19	25	26	4.7	3.9 <sup>✓</sup>	.8	4.9 <sup>1</sup>	4.8 <sup>✓</sup>	.3	2
27	19	25	36	5.3	4.3 <sup>✓</sup>	1.0	5.2 <sup>1</sup>	5.2 <sup>✓</sup>	.1	2
28	19	25	46	5.1	3.8 <sup>✓</sup>	1.3	5.5 <sup>4</sup>	5.3 <sup>2</sup> ✓	.4	2
29	19	25	56	5.3	3.8 <sup>✓</sup>	1.5	5.7 <sup>6</sup>	5.5 <sup>4</sup> ✓	.4	2
30	19	26	06	5.3	4.2 <sup>✓</sup>	1.1	5.3 <sup>2</sup>	5.3 <sup>2</sup> ✓	0	1
31	19	26	16	5.9	4.6 <sup>✓</sup>	1.3	5.5 <sup>4</sup>	5.7 <sup>✓</sup>	.4	5
32	19	26	26	6.6	4.6 <sup>✓</sup>	2.0	6.2 <sup>1</sup>	6.4 <sup>✓</sup>	.4	5
33	19	26	36	6.6	4.7 <sup>✓</sup>	1.9	6.1 <sup>0</sup>	6.3 <sup>✓</sup>	.5	6
34	19	26	46	6.7	4.3 <sup>✓</sup>	2.4	6.8 <sup>5</sup>	6.6 <sup>✓</sup>	.1	2
35	19	26	56	7.4	4.3 <sup>✓</sup>	3.1	7.3 <sup>2</sup>	7.4 <sup>3</sup> ✓	.1	2
36	19	27	06	7.5	4.2 <sup>✓</sup>	3.3	7.5 <sup>4</sup>	7.5 <sup>✓</sup>	0	1
37	19	27	16	7.8	4.3 <sup>✓</sup>	3.5	7.7 <sup>6</sup>	7.8 <sup>7</sup> ✓	.1	2

measured in red from Book 11, p. 54.  
 indicates no change on remeasurement

Sum 1008

mean 4.2

1018✓

4.1✓



Copied from Book 7.

50

TEE

C 1396<sup>6</sup> Aug. 26, 1902. Tel. Inf. Lat. I<sup>Re</sup>

4	✓	15	13	03	9.5 <sup>✓</sup>	2.8 <sup>✓</sup>	6.7 <sup>+</sup>	10.0	9.8 <sup>✓</sup>	.5
5		15	13	13	8.8	3.4	5.4	8.7	8.8 <sup>✓</sup>	.1
6		15	13	23	8.2	3.2	5.0	8.3	8.2 <sup>✓</sup>	.1
7		15	13	33	7.6	3.0	4.6	7.9	7.8 <sup>✓</sup>	.3
8	✓	15	13	48	6.1 <sup>5.6</sup>	2.0 <sup>✓</sup>	4.1 <sup>3.6</sup>	6.9	6.2 <sup>✓</sup>	1.3
9		15	14	03	6.8 <sup>✓</sup>	3.3 <sup>✓</sup>	3.5	6.8	6.8 <sup>✓</sup>	0
10		15	14	13	6.1	3.2	2.9	6.2	6.2 <sup>✓</sup>	.1
11		15	14	23	5.8	3.3	2.5	5.8	5.8 <sup>✓</sup>	0
12		15	14	33	5.8	3.6	2.2	5.5	5.6 <sup>✓</sup>	.3
13		15	14	43	5.6	3.4 <sup>✓</sup>	1.8 <sup>2.2</sup>	5.1 <sup>5</sup>	5.5 <sup>✓</sup>	.1
14		15	14	53	5.7	3.6	2.1	5.4	5.6 <sup>✓</sup>	.3
15		15	15	03	5.2	3.6	1.6	4.9	5.0 <sup>✓</sup>	.3
16		15	15	13	5.4	3.3 <sup>✓</sup>	2.1	5.4	5.4 <sup>✓</sup>	0
17		15	15	23	5.1	3.3 <sup>✓</sup>	1.8	5.1	5.1 <sup>✓</sup>	0
18		15	15	33	5.0	3.5 <sup>✓</sup>	1.5	4.8	4.9 <sup>✓</sup>	.2
19		15	15	43	4.9	3.4 <sup>✓</sup>	1.5	4.8	4.8 <sup>✓</sup>	.1
20		15	15	53	4.8	3.2 <sup>✓</sup>	1.6	4.9	4.8 <sup>✓</sup>	.1
21		15	16	03	4.2	2.5 <sup>3.5</sup>	1.7 <sup>.7</sup>	4.0	4.1 <sup>✓</sup>	.8 <sup>.2</sup>
22		15	16	13	4.5	3.3 <sup>✓</sup>	1.2	4.5	4.5 <sup>✓</sup>	0
23 <sup>#</sup>		±			5.8	5.1 <sup>✓</sup>	.9	4.0	4.9	1.8

measures in blue from Book 11, p. 48

" " red " " 11, p. 54

# No. 23 is last image on plate.

✓ indicates no change or remeasurement.

Remeasurement of ric from Book 11, p. 55

Sum 662 11 61 51 33 49 61 61

Mean 3.3 49 52 61

Image no. 8 had 20<sup>s</sup> exposure instead of 10<sup>s</sup>.



## Copied from Book 7.

C 14001 Sept. 11, 1902. Jup. Ec I Re.

	G. M. T.	(1)	(2)	(3)	(4) = (3) + 5.3	Mean of (1) to (4)	
1	13	32	36	8.5 5.3 3.2	8.5	8.5	0
2			46	7.8 5.2 2.6	7.9	7.8	.1
3		32	56	7.4 <sup>v</sup> 5.1 1.6 <sup>2.3</sup>	7.6	7.5	.2
4		33	06	7.3 5.2 2.1	7.4	7.4	.1
5			16	7.1 5.3 1.8	7.1	7.1	0
6			26	7.2 5.4 1.8	7.1	7.2	.1
7			36	6.9 5.3 1.8	7.0	7.0	.1
8			46	6.7 5.4 1.3	6.6	6.6	.1
9		34	56	6.8 5.3 1.3	6.6	6.6	0
10		34	06	6.4 5.1 1.3	6.6	6.5	.2
11	13	34	16	6.3 5.1 1.2	6.5	6.4	.2
12			26	6.2 5.0 1.2	6.5	6.4	.3
13			36	6.2 5.1 1.1	6.4	6.3	.2
14			46	6.3 5.2 1.1	6.4	6.4	.1
15			56	6.3 5.3 1.0	6.3	6.3	0
16		35	06	6.3 5.2 1.1	6.4	6.4	.1
17			16	5.8 <sup>v</sup> 4.7 <sup>5.2</sup> 1.1 <sup>.6</sup>	5.9	5.8	.1
18			26	6.7 <sup>v</sup> 5.6 <sup>v</sup> 1.1	6.4	6.6	.3
19			36	6.4 5.4 1.0	6.3	6.4	.1
20			46	6.4 5.2 1.2	6.5	6.4	.1
21	13	35	56	5.5 5.2 1.3	5.6	5.6	.1
22		36	06	5.8 4.8 <sup>5.6</sup> 1.0 <sup>.2</sup>	5.5	5.6	.3
23			16	7.1 5.7 1.4	6.7	6.9	.4
24			26	7.2 5.6 1.6	6.9	7.0	.3
25	13	36	36	6.8 5.2 1.6	6.9	6.8	.1

Measures in red from Book 11, p. 54.  
 ✓ indicates no change in measurement.  
 Sum 1321 ✓  
 Mean 5.3 ✓







62

Even measures Copied from Book 16, p. 10.  
Odd measures. " " Book 15, p. 16

C 9482, W. H. L. p. 11, 1896.

PLOTTED

1	t	d1
	14 42.5	d2
	14 47.5	c9
	14 52.5	d3
	14 57.5	d3
6	15 02.5	c9
	15 07.5	d2
	15 12.5	c7
	15 17.5	c8
	15 22.5	c7
	15 27.5	c6
12	15 32.5	c4
	15 37.5	c5
	15 42.5	c3
	15 47.5	c6
	15 52.5	c4
	15 57.5	c5
18	16 02.5	c4
	16 07.5	c4
	16 12.5	c2
	16 17.5	c2
	16 22.5	c0
	t	c2

Copied for printer

24



Even measures Copied from Book 16, p. 14  
 Odd measures. " " Book 15, p. 20.

68

C 9483, W. helphini, Sept. 11, 1896.

PLOTTED  
 68

1	16	42.5	b9
	16	47.5	c1
	16	52.5	c1
	16	57.5	c3
	17	02.5	c1
6	17	07.5	c2
	17	12.5	c1
	17	17.5	c1
	17	22.5	c0
	17	27.5	c0
	17	32.5	b9
12	17	37.5	b9
	17	42.5	c0
	17	47.5	b6
	17	52.5	c1
	17	57.5	b6
	18	02.5	c0
18	18	07.5	c0
	18	12.5	b9
	18	17.5	b8
	18	22.5	b9
	18	27.5	c1
	18	32.5	c0

Copied for printer

24



64

Even measures Copied from Book 16, p. 14.  
 Odd measures " " Book 15, p. 17.

PLOTTED

C 9484, W. Melfhini, Sept. 16, 1896.

1	12	17.5	b 8
	12	22.5	b 6
	12	27.5	b 8
	12	32.5	b 8
	12	37.5	b 9
6	12	42.5	c 0
	12	47.5	b 9
8	12	52.5	b 8

Copied for printer

PLOTTED

Odd measures copied from Book 15, p. 19  
 Even measures Copied from Book 16, p. 15.  
 C 9511, W. Melfhini, Sept. 30, 1896.

1	11	32.5	c 2
	11	37.5	c 3
	11	42.5	c 2
	11	47.5	c 1
	11	52.5	c 2
6	11	57.5	c 2
	12	02.5	c 3
	12	07.5	c 4
	12	12.5	c 3
10	12	17.5	c 5
	12	22.5	c 4

Copied for printer

This image is double. (Reject).



Even measures Copied from Book 16, p. 15  
 Odd measures " " Book 15, p. 19.

65

C 9512, W. H. Lelphini, Sept. 30, 1896.

PLOTTED

1	13	22.5	c7
	13	27.5	c7
	13	32.5	c8
	13	37.5	c8
	13	42.5	c9
6	13	47.5	do
	13	52.5	do
	13	57.5	c9
	14	02.5	d2
	14	07.5	do
	14	12.5	—
12	14	17.5	—
	14	22.5	—
14	14	27.5	—
15 -	14	32.5	—
16 -	14	37.5	—

Copied for printer

Odd measures copied from Book 15, p. 20.

Even measures Copied from Book 16, p. 13  
 C 9571, W. H. Lelphini, Oct. 19, 1896.

PLOTTED

1	16	12.4	b8
	16	17.4	b6
	16	22.4	b8
	16	27.4	b4
	16	32.4	b9
6	16	37.4	b6
	16	42.4	b9

Copied for printer



66 Even measures Copied from Book 16, f. 15.  
Odd measures " " Book 15, p. 17.

C 9575, *W. helphina*, Oct. 19, 1896.

Odd and even images measured & entered below according to Thibault's cumbers, beginning from image nearest "N" end as 1.

17 07.4 ~~77~~ c3

17 12.4 67 ✓

17 17.4 ~~18~~ c6

17 22.4 100

(17) 27.4) X -

6 17 32 4 6

17 37.4 -

8 17 42.4 / -

Copied for printer

Even measures Copied from Book 16, p. 15.

Odd measures " 0 " Book 15, p. 18.

C 9583, *W. helphini*, Oct. 24, 1896.

PLOTTED

1	11	36.4	69
---	----	------	----

11 46.4 eo

11 46.4 68

11	51.4	b8
----	------	----

11	56.4	67
----	------	----

6	12	01.4	69
---	----	------	----

12 06.4 67

12 11.4 20

12 16.4 19

12 21.4 69

12	26.4	18
----	------	----

12	12	31.4	68
----	----	------	----

12	36.4	68
----	------	----

Copied for printer



Even measures Copied from Book 16, p. 14.  
 Odd measures " " Book 15, p. 19.

67

C 9629, W. Melfhini, Nov. 3, 1896.

PLOTTED

1	10	57.5	d9
	11	02.5	d2 <sup>T</sup>
	11	07.5	d9 <sup>V<del>7</del></sup>
	11	12.5	d6
	11	17.5	d7
6	<del>11</del>	<del>22.5</del>	<del>d7</del>
	11	27.5	d7
	11	32.5	d3
	11	37.5	d6
	11	42.5	d0
	11	47.5	d0
12	11	52.5	c9
	11	57.5	d0
14	12	02.5	c6
15	12	07.5	d0
16	12	12.5	d0
17	12	17.5	d7

Repeat images 6 + 17  
 J.R.C.

Copied for printer

Even measures  
 Odd measures

Copied from Book 16, p. 13.  
 " " Book 15, p. 21.

C 10370, W. Melfhini, June 26, 1897.

PLOTTED

1	15	32	30	c0
	15	37	30	b9
	15	42	30	c0
	15	47	30	c1
	15	52	30	c1
6	15	57	30	c1
	16	02	30	c1

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68 Even measures Copied from Book 16, p. 13.  
 Odd measures " " Book 15, p. 21.

C 10374, W. Welfhine, July 1, 1897.

1 16 43 ~~30~~ h9  
 16 47 30 k3  
 16 52 30 ~~k2~~ h8  
 16 57 30 — k0 assumed  
 17 02 30 ~~k9~~ k2  
 6 17 07 30 c3  
 17 12 30 h9  
 17 17 30 h7  
 17 22 30 k4  
 17 27 30 h4  
 17 32 30 g0  
 12 17 37 30 f4  
 17 42 30 f8  
 14 47 30 f8  
 17 52 30 f7  
 17 57 30 f1  
 18 02 30 e7

18 — e7 assumed

e7

Line of image 1 is entered

*[Signature]*



Even measures Copied from Book 16, p. 12  
 Odd " " " Book 15, p. 13.

69

<sup>11136</sup>  
 C 14566, W. Melfini, Apr. 1, 1898.

PLOTTED

1	t	c8	
	18 42	31 <del>es</del> do	
	18 47	31 c6	
	18 52	31 <del>73</del> c7	
	18 57	31 c6	
6	19 02	31 e4	
	19 07	31 c5	
	19 12	31 <del>70</del> c3	Bk. 16, p. 52
	19 17	31 c3	
	19 22	31 <del>ds</del> b7	
	19 27	31 c4	
12	19 32	31 e7 e2	
	19 37	31 c3	
	19 42	31 e2	
	19 47	31 <del>es</del> c3	
16	19 52	31 e0	
	19 57	31 c3	
	20 02	31 e1	
	20 07	31 b9	
	20 12	31 c3 ✓	
	20 17	31 b6	
	20 22	31 b8	
	20 27	31 b7	

Copied for printer



70 Even measures Copied from Book 16, p. 13.  
 Odd measures " " Book 15, p. 22.

PLOTTED

C 11194, W. Delphinii, May 14, 1898.

1	t	c5
	17 06	40 c6
	17 11	40 c5
	17 16	40 c7
	17 21	40 c7
6	17 26	40 d1
	17 31	40 c8
	17 36	40 d0
	17 41	40 c9
	17 46	40 c8
	17 51	40 d1
12	17 56	40 c9
	18 01	40 d1
	18 06	40 d4
	18 11	40 d5
	18 16	40 d5
	18 21	40 d8
18	18 26	40 d6
	18 31	40 e0
	18 36	40 e3
	18 41	40 e4
	18 46	40 e3
	18 51	40 e6
24	18 56	40 f1
	t	—

Copied for printer



Even measures Copied from Book 16, p. 12.  
 Odd measures " " Book 15, p. 23.

71

C 11286, W. Delphini, July 6, 1898.

PLOTTED

1	t				h3
	t				<del>h3</del> L h8 L+T
	t				h5v
	t				h8v
	t				<del>g9</del> h6 L+T
6	t				h4v
7	t				<del>g5</del> L h3 L+T
8	19	17	31		<del>h2</del> g6 L+T
	19	22	31		g8
	19	27	31		h0
	19	32	31		g6
12	19	37	31		<del>e8</del> L+T
	19	42	31		<del>f3</del> T e9 L+T
	19	47	31		<del>h5</del> e6 L+T
	19	52	31		e5
16	19	57	31		—
	t				

Copied for printer



72

Even measures Copied from Book 16, p. 12.

Odd measures " " " 15, p. 23

PLOTTED

C 11366, W. Melfini, Aug. 28, 1898.

1	16	43	<sup>4</sup> 37	e 73 e 7
	16	48	<sup>4</sup> 37	do e 3
	16	53	<sup>4</sup> 37	e 5 f 3 e 5
	16	58	<sup>4</sup> 37	e 7 f 3 e 6 L + T
	17	03	<sup>4</sup> 37	e 3 f 0 e 3 v
6	17	08	<sup>4</sup> 37	e 4 e 1 Bk. 16, p. 52.
	17	13	<sup>4</sup> 37	e 0 d 5 e 0 T d 4 L + T
	17	18	<sup>4</sup> 37	b 7 f 0 d 0 L + T
	17	23	<sup>4</sup> 37	c 7 v
	17	28	<sup>4</sup> 37	c 2 b 7 <sup>d 5</sup> e 2 c 8 L + T
	17	33	<sup>4</sup> 37	d 2
12	17	38	<sup>4</sup> 37	e 2 r 7
	17	43	<sup>4</sup> 37	c 6
	17	48	<sup>4</sup> 37	e 2 e 3 e 8 L + T
	17	53	<sup>4</sup> 37	c 8
16	17	58	<sup>4</sup> 37	e x 0
	18	03	<sup>4</sup> 7	c 6
18		t		e t
		t		-
				e 3
				-
22				b 8

Copied for printer



Even measures  
Odd measures

Copied from Book 16, p. 11.  
" " Book 15, p. 13.

78

PLOTTED

C 11424, W. Melpheim, Sept. 21, 1898.

1	t			g0	
	16	41	30	<del>h8</del> h2	L + T
	16	46	30	h0v	
	16	51	30	h4	
	16	56	30	h5	
6	17	01	30	<del>74</del> 78	L + T
	17	06	30	<del>h1</del> f9	Bk. 15, p. 62.
	17	11	30	<del>e5</del> g0	L + T
	17	16	30	e8	
	17	21	30	<del>e2</del> f2	L + T
	17	26	30	f1	
12	17	31	30	e8	
	17	36	30	<del>d6</del> Teo	L + T
	17	41	30	e0	
	17	46	30	d8	
	17	51	30	e1	
	17	56	30	d7	
18	18	01	30	d7	
	18	06	30	d6	
	18	11	30	d5	
	18	16	30	d5	
	18	21	30	d2	
	18	26	30	<del>e2</del> d6 c9	L + T
24	18	31	30	e8	
	18	36	30	c6	

Copied for printer



74

Even measures Copied from Book 16, p. 11.

Odd measures

"

"

Book 15, p. 16.

C 11495, W. Melpini, Oct. 20, 1898.

1 14 53 30 d o

c 8

15 03 30 c 8

c 6

15 13 20 c 8

6

c 4

15 23 30 c 9 ✓

c 2 ✓

15 33 30 c 7 ✓

c 2

15 43 30 c 4

c 2

12

15 53 30 c 0

c 2

16 03 30 -

-

16 13 30 -

-

18

16 23 30 b 6

Copied for printer



Even measures Copied from Book 16, p. 9.  
 Odd measures " " Book 15, p. 15.

75

C 11554, W. Melpini, Nov. 8, 1898.

PLOTTED

1	$\pm$	c1
12	19	30 c2
12	24	30 c1
12	29	30 c2
12	34	30 c3
6	12	39 30 c5
	12	44 30 c3
	12	49 30 c3
	12	54 30 c7
	12	59 30 c6
	13	04 30 c8
12	13	09 30 —
	13	14 30 c9

Copied for printer

Odd measures copied from Book 15, p. 11.  
 Even measures Copied from Book 16, p. 9.  
 C 11977, W. Melpini, June 3, 1899.

PLOTTED

1	$\pm$	—
2	16	23 28 b4
3	16	28 28 b8
4	$\pm$	b3
<del>5</del>		$\pm$

Copied for printer



76

Even measures Copied from Book 16, p. 9.  
 Odd measures " " Book 15, p. 11.

C. 11988, W. Melpheii, June 12, 1899.

1 t c4  
 2 19 09 28 e5  
 3 19 14 28 c5  
 4 19 19 28 c2  
 ? 19 32 28 5 28 c7  
 6 19 4 32 28 c3  
 19 4 37 28 d1  
 8 19 5 42 28 e7  
 19 5 47 28 d2

Copied for printer

\* Image #5 assumed to have had 8 min. exposure on account of apparatus working poorly. Therefore the times of images from image 5 to 9 inclusive are assumed to be correct.

More times are presumably correct.



Even measures Copied from Book 16, p. 10.  
 Odd measures " " Book 15, p. 12.

77

C 12029, W. Melphini, July 11, 1899.

PLOTTED

1 *t* 28

16 28 31 d6

29

16 38 31 e3

20

6 16 48 31 e2

23

16 58 31 e1

26

17 08 31 e6

28

12 17 18 31 e8

28

17 28 31 f6

g6

17 38 31 f8

g6

18 17 48 31 -

-

17 58 31 -

-

22 18 08 31 -

18 13 31 -

Copied for Printer



78

Even measures Copied from Book 16, p. 9.  
 Odd measures " " Book 15, p. 12.

PLOTTED

C 12077, W. Melpini, Aug. 9, 1899.

1		$t$	$e 5$	
2	13	17	32	$e 5$ assumed
3	13	22	32	$e 6$
	13	27	32	$e 4$ $f 5$ L & T
	13	32	32	$f 8$
6	13	37	32	$f 4$ $T$ $g 0$ L & T
	13	42	32	$g 7$ $g 0$ L & T
	13	47	32	$e 8$ $g 0$ L & T
	13	52	32	$g 8$ $T$
	13	57	32	$d 8$ $h 6$ Bk. 16, p. 48.
	14	02	32	$k 5$ $h 8$ L & T
12	14	07	32	$e 7$ $h 8$ L & T
	14	12	32	$k 5$ $h 9$ L & T
	14	17	32	$e 7$ $h 6$ L & T
	14	22	32	$k 8$ $k 2$ L & T
	14	27	32	$e 5$ $k 2$ L & T
	14	32	32	$k 1$
18	14	37	32	—
	14	42	32	$k 5$
	14	47	32	—
	14	52	32	$l 0$
	14	57	32	—
	15	02	32	$d 7$
24	15	07	32	—
		$t$	$d 4$	

Copied for printer



Even measures Copied from Book 16, p. 7.  
 Odd measures " " Book 15, p. 7.

79

PLOTTED

C. 12079, W. Melfini, Aug. 14, 1899.

1		t	70
		t	73
		t	25
		t	25
5	13	31	30 <sup>✓</sup> d9
6	13	36	30 d4
	13	41	30 d8 <sup>✓</sup>
	13	46	30 <del>d8</del> d8 L+T
	13	51	30 d6
	13	56	30 d3
	14	01	30 d0
12	14	06	30 <sup>✓</sup> d2
	14	11	30 c7
	14	16	30 c7
	14	21	30 c7
	14	26	30 c8
	14	31	30 c7
18	14	36	30 c4
	14	41	30 c5
	14	46	30 c1
	14	51	30 c5
	14	56	30 c4
	15	01	30 c4
24	15	06	30 c4
	15	11	30 <sup>✓</sup> c4
	<del>15</del>	<del>16</del>	<del>30</del>

Copied for printer



80

Even measures Copied from Book 16, p. 8.

Odd measures " " Book 15, p. 8.

C 12080, W. Helphini, Aug. 14, 1899.

1	t	c4
	t	c3
	t	c5
	t	c4
	t	c3
6	t	c2
	t	c2
	t	c2
	t	c2

10	16	01	30	b7
	16	06	30	b8

12	16	11	30	b9
	16	16	30	b7
	16	21	30	b7
	16	26	30	b7
	16	31	30	b7
	16	36	30	b7

18	16	41	30	b5
	16	46	30	b6
	16	51	30	b7
	16	56	30	b6
	17	01	30	b6
	17	06	30	b9

24	17	11	30	b5
----	----	----	----	----

	17	16	30	b8
26		t		b6

Copied for printer



Even measures Copied from Book 16, p. 6.  
 Odd measures " " Book 15, p. 10.

81

PLOTTED

C 12128, W. Melphini, Sept. 7, 1899.

1	t	-
✓	12 35 21	-
3	12 40 21	h9
	12 45 21	h2
	12 50 21	h8
6	12 55 21	h9
	13 00 21	h5
	13 05 21	h8
	13 10 21	h4
	13 15 21	h5 g6 L+T
	13 20 21	g5 g6 L+T
12	13 25 21	g7 g8 L+T
	13 30 21	g0 g4 L+T
	13 35 21	g8 g6 L+T
	13 40 21	g0
16	13 45 21	g3
17	13 50 21	

cls.

Copied for printer



82

Even measures Copied from Book 16, p. 6.

Odd measures " " Book 15, p. 9.

C 12133, W. Hephini, Sept. 12, 1899.

PLOTTED

1		<del>t</del>	68	
	12	08 31	<del>63</del> T 68	L + T.
	12	13 31	68	
	12	18 31	68	
	12	23 31	68	
6	12	28 31	68	
	12	33 31	68	
	12	38 31	68	
	12	43 31	69	
	12	48 31	66	
	12	<sup>53</sup> 48 31	68	
12	12	<sup>58</sup> 58 31	66	
	12 <sup>3</sup>	<sup>58</sup> 58 31	60	
	13	<sup>63</sup> 63 31	68	
	13	<sup>68</sup> 68 31	<del>65</del> c2 L + T	
	13	<sup>73</sup> 73 31	67 c2	
	13	<sup>78</sup> 78 31	60	
18	13	<sup>28</sup> 28 31	67	
	13	<sup>33</sup> 33 31	60	
	13	<sup>38</sup> 38 31	65	
	13	<sup>43</sup> 38 31	66	
22	13	<sup>46</sup> 43 31	67	
	13	<sup>53</sup> 48 31	68	
		t		

Copied for printer



Even measures Copied from Book 16, p. 16.  
 Odd measures " " Book 15, p. 18.

83

PLOTTED

C 9584, W. Helphini, Oct. 24, 1896.

1	12	57.4	b9
	13	02.4	b8
	13	07.4	c0
	13	12.4	b9
	13	17.4	c1
6	13	22.4	c2
	13	27.4	c3
	13	32.4	c1
	13	37.4	<del>c5</del> <del>c3</del> L+T
	13	42.4	<del>b9</del> <del>c4</del> L+T
	13	47.4	c3
	13	52.4	c1
12	13	57.4	c5
	14	02.4	c2
	14	07.4	c6
	14	12.4	c6
	14	17.4	c6
18	14	22.4	c6
	14	27.4	c8
	14	32.4	c8
	14	37.4	d0
22	14	42.4	d3
			—

Copied for printer



84

Even measures Copied from Book 16, p. 28.

Odd measures

"

"

Book 15, p. 17.

PLOTTED

C 9585, W. Melfini, Oct. 24, 1896.

1	15	07.4	d8
	15	12.4	e3
	15	17.4	d9
	15	22.4	e3
	15	27.4	e0
6	15	32.4	e2
	15	37.4	e0
	15	42.4	e5
	15	47.4	e4
	15	52.4	e6
	15	57.4	f0
12	16	02.4	e6 f6 L+T
	16	07.4	f3 f7 L+T
	16	12.4	f2 f8 L+T
	16	17.4	g3 L
	16	22.4	g4 assumed
	16	27.4	g6
18	16	32.4	-
	16	37.4	
20	<del>16</del>	<del>42.4</del>	
	<del>16</del>	<del>46.4</del>	

Copied for printer

Reject images 20 and 21



Even measures Copied from Book 16, p. 23.  
 Odd measures " " Book 15, p. 30

85

PLOTTED

p

C 9908, W. Melpkini, Jan. 9, 1897.

1 10 32.5 b8  
 10 37.5 c2  
 10 42.5 b8  
 10 47.5 b9  
 10 52.5 c1

6 10 57.5 c0  
 11 02.5 c3  
 11 07.5 c1  
 11 12.5 c4  
 11 17.5 c3  
 11 22.5 c6

12 11 27.5 c5  
 11 42.5 c8  
 11 47.5

15 11 52.5 d2

16 11 57.5

17 11 02.5

Even measures Copied from Book 16, p. 24.  
 Odd measures " " Book 15, p. 32.

C 10378, W. Melpkini, July 6, 1897.

PLOTTED

1 15 09 38 c7  
 2 15 14 38 c6  
 3 15 19 38 c7  
 4 15 24 38 c6  
 5 15 29 38 c8

Copied for printer



86 Even measures Copied from Book 16, p. 25.  
 Odd measures " " Book 15, p. 33

PLOTTED

C 10387, W. Hephini, July 30, 1897.

1	<sup>c</sup>	<del>13</del>	<del>27</del>	<del>32</del>	<del>78</del>	
		13	32	32	79	
		13	37	32	<del>90</del>	T 95 L+T
		13	42	32	<del>83</del>	76 L+T
		13	47	32	<del>79</del>	L 74 L+T
6		13	52	32	<del>83</del>	90 L+T
		13	57	32	<del>78</del>	74 L+T
		14	02	32	73	
		14	07	32	75	
		14	12	32	88	
		14	17	32	88	
12		14	22	32	86	
		14	27	32	82	
		14	32	32	85 <sup>v</sup>	
		14	57	32	86	
		15	02	32	89 <sup>L</sup>	
	<sup>c</sup>	<del>15</del>	<del>07</del>	<del>32</del>	<del>86</del>	d3 L+T
18		15	12	32	87	
		15	t	?	85	

Copied for printer

Reject images 1, 17 and 19.

A.R.C.



Even measures Copied from Book 16, p. 24.  
 Odd measures " " Book 15, p. 32

87

PLOTTED

C 10388, W. Helphini, July 30, 1897.

1	15	27	32	c9
	15	32	32	c7
	15	37	32	c8
	15	42	32	c7
	15	47	32	c8
6	<del>15</del>	<del>52</del>	<del>32</del>	<del>c5</del>
	15	57	32	c5
	16	02	32	c4
	16	07	32	c5
	16	12	32	c5
	16	17	32	c2
12	16	22	32	c3
	16	27	32	c0
	16	32	32	c3
	16	37	32	c1
	16	42	32	c3
	16	47	32	c1
18	16	52	32	c3
	16	57	32	c1
	17	02	32	c2
	17	07	32	c9
22	17	12	32	c3
	17	17	32	c8

#1  
 Reject measure  
 A.R.C.

Copied for printer



88 Even measures Copied from Book 16, p. 24.  
 Odd measures " " Book 15, p. 31.

PLOTTED

C 10389, W. Helphini, July 30, 1897.

1	17	32	32 b8
	17	37	32 b6
	17	42	32 b9
	17	47	32 b6
	17	52	32 b9
6	17	57	32 b6
	18	02	32 b8
	18	07	32 b4 <sup>v</sup>
	18	12	32 c0
	18	17	32 c2
	18	22	32 b9
12	18	27	32 b6
	18	32	32 c0
14	18	37	32 b7
	18	42	32 c0
	18	47	32

Copied for printer



Even measures Copied from Book 16, p. 23.  
 Odd measures " " Book 15, p. 31.

89

C 10446, W. Helphici, Aug. 13, 1897.

PLOTTED

1	11	17	37	09	c8	
	3	17	47	09	—	c8 assumed
	7	18	07	09	c8	
	8	18	12	09	<del>69</del>	c4 L r T
	9	18	17	09	<del>e7</del>	c6 L r T
6	10	18	22	09	<del>e1</del>	c4 L r T
	11	18	27	09	<del>e9</del>	c7 L r T
	12	18	32	09	c7	
	13	18	37	09	c8	
	14	18	42	09	<del>d4</del>	d1 L r T
	15	18	47	09	<del>e9</del>	d2 L r T
12	16	18	52	09	<del>e2</del>	T d1 L r T
	17		t		d1	

Copied for  
Printer

Use numbers of images as  
indicated by the green figures.

J.R.C.



90 Even measures Copied from Book 16, p. 23.  
 Odd measures " " Book 15, p. 31.

C 10488, W. Delphini, Sept. 6, 1897.

PLOTTED.

1	18	06	26	b9
	18	11	26	b7
	18	16	26	c0
	18	21	26	b8
	18	26	26	c1
6	18	31	26	c3
	18	36	26	c4
	18	41	26	c6
	18	46	26	c6
	18	51	26	c6
	18	56	26	c6
12	19	01	26	c6
	19	06	26	d1
	19	11	26	c7
	19	16	26	c9
	19	21	26	<del>c6</del> ✓ c9 L+T
	19	26	26	d5 <sup>v</sup>
18	19	31	26	<del>c8</del> d5 L+T
	19	36	26	<del>d7</del> L d2 L+T
20	19	41	26	<del>d0</del> T d4 L+T
	19	46	26	d8

Copied for printer



Even Measures Copied from Book 16, p. 26.

Odd measures " " Book 15, p. 34.

91

PLOTTED

C 10503, W. Helphini, Sept. 11, 1897.

1  
 14 12 18 c4  
 14 17 18 c7  
 14 22 18 c8  
 14 27 18 c6  
 14 32 18 d1<sup>v</sup>

6  
 14 37 18 c6  
 14 42 18 c7  
 14 47 18 c8  
 14 52 18 c9  
 14 57 18 c7  
 15 02 18 d0

12  
 15 07 18 d3  
 15 12 18 d9  
 15 17 18 e4  
 15 22 18 e0  
 15 27 18 e2  
 15 32 18 d9

18  
 15 37 18 e2  
 15 42 18 e3  
 15 47 18 e0  
 15 52 18 e6

22  
 15 57 18 f3  
 —

Copied for printer



92 Even measures Copied from Book 16, p. 24.  
 Odd measures " " Book 15, p. 32.

PLOTTED

C 10504, W. Melfhini, Sept. 11, 1897.

1 ~~16 37 18 h6~~ Reject image #1. The exposure is  
 16 42 18 h4 not uniform with the rest. H.R.C.  
 16 47 18 h4  
 16 52 18 ~~h6~~ h8 L+T  
 16 57 18 ~~g7~~ h4 L+T  
 6 17 02 18 ~~k4~~ Copied for printer  
 17 07 18 ~~h7~~ very poor image R5 assumed.  
 8 17 12 18 ~~h2~~ k6 L+T  
 9 17 17 18 ~~h8~~ k5 L+T

Even measures Copied from Book 16, p. 25.  
 Odd measures C 10538, W. Melfhini, Sept. 21, 1897.

PLOTTED

1 11 47 31 d4  
 11 52 31 c9  
 11 57 31 d3  
 12 02 31 c8  
 12 07 31 d1  
 6 12 12 31 c9  
 12 17 31 d0  
 12 22 31 c7  
 12 27 31 c8  
 12 32 31 c7  
 12 37 31 c9  
 12 42 31 c6  
 12 47 31 c6  
 12 52 31 c7  
 12 57 31 c7  
 16 13 02 31 c7  
 13 07 31 c4

Copied for printer



Even measures Copied from Book 16, p. 29.  
 Odd " " " Book 15, p. 48.

93

PLOTTED

C 10539, W. Delphini, Sept. 31, 1897.

1 13 32 31 67.

13 37 31 69

13 42 31 68

13 47 31 68

13 52 31 69

6 13 57 31 ~~64~~ <sup>T</sup> c0 L + T

14 02 31 69

14 07 31 68

14 12 31 c0

14 17 31 - c1 L + T

14 22 31 c1

12 14 27 31 ~~65~~ <sup>v</sup> 68 L + T

14 32 31 69

14 37 31 66

14 42 31 68

14 47 31 - T 66 L

14 52 31 67

18 14 57 31 - T 66 L

~~15 02 31 65~~Reject image #19.  
A.R.C.

Copied for printer



94 Even measures Copied from Book 16, p. 27.  
 Odd measures " " Book 15, p. 36

C 10588, W. Melpini, Oct. 5, 1897.

1 14 03 25c1  
 14 08 25c3  
 14 13 25b9v  
 14 18 25~~25~~ L C1 L v T  
 14 23 25~~29~~ L C2 L v T

6 14 28 25c4  
 14 33 25c0  
 14 38 25c3  
 14 43 25c2  
 14 48 25c5  
 14 53. 25~~25~~ c4

12 14 58 25c6  
 15 03 25c5  
 15 08 25c8  
 15 13 25c3  
 15 18 25c7  
 15 23 25c5

18 15 28 25c9  
 15 33 25c7  
 15 38 25c7  
 15 43 25c8  
 15 48 25d2  
 15 53 25d0

24 15 58 25d4

Copied for Printer



Even measures Copied from Book 16, p. 25.  
 Odd measures " " Book 15, p. 33.

95

PLOTTED

C 10589, W. Helphini, Oct. 5, 1897.

1 16 13 25 e 5  
 16 18 25 d 8 ~~T~~ e 2 L v T  
 16 23 25 e 7 ~~L~~ e 2 L v T  
 16 28 25 e 3 ~~V~~ e 5 L v T  
 16 33 25 e 9

6 16 38 25 e 8  
 16 43 25 -  
 16 48 25 -  
 16 53 25 -  
 16 58 25 -  
 17 03 25 -

12 17 08 25 -  
 17 13 25 -  
 17 18 25 -  
 17 23 25 -  
 17 28 25 -  
 17 33 25 -

18 17 38 25 -  
 17 43 25 -  
 17 48 25 -  
 17 53 25 -

22 17 58 25 -  
 18 03 25 -

Copied for printer



96 Even measures Copied from Book 16, p. 26  
 Odd measures " " Book 15, p. 35

PLOTTED

C 10610, W. Melfhini, Oct. 10, 1897.

1 ~~12 38 31 98~~  
 2 ✓ ~~12 <sup>38</sup> 43 31 95~~  
~~12 <sup>43</sup> 48 31 95~~  
~~12 <sup>48</sup> 53 31 96~~  
~~12 <sup>53</sup> 58 31 90 ✓~~  
 6 ~~13 <sup>58</sup> 03 31 92 98 L+T~~  
~~13 <sup>03</sup> 08 31 95 T R L+T~~  
 8 13 08 31 95

Times copied incorrectly.  
 Have been corrected.  
 H.R.C.

Copied for printer

Odd measures copied from Book 15, p. 49.

Even measures Copied from Book 16, p. 27.

C 10622, W. Melfhini, Oct. 15, 1897.

+c

1 11 13 29 94  
 11 18 29 92  
 11 23 29 99  
 11 28 29 93  
 11 33 29 98  
 6 11 38 29 98  
 11 43 29 96  
 11 48 29 95  
 11 53 29 96  
 11 58 29 94  
 12 12 03 29 95  
 12 12 08 29 95  
 12 13 29 90  
 14 12 18 29 93

Copied for printer



Even measures Copied from Book 16, p. 28.  
 Odd " " " Book 15, p. 49.

97

C 10627, W. Delphini, Oct. 15, 1897.

PLOTTER

1 12 43 29 c9

12 48 29 c8

12 53 29 c9

~~12 58 29 c7~~

13 03 29 c9

6 13 08 29 c7

13 13 29 c8

13 18 29 c6

13 23 29 c8

13 28 29 c6

13 33 29 c5

12 13 38 29 c6

13 43 29 c5

13 48 29 c5

13 53 29 c5

13 58 29 c5

14 03 29 c4

18 14 08 29 c4

14 13 29 c4

14 18 29 c9

14 23 29 c3 ✓

14 28 29 c7

14 33 29 c9

24 ~~14 38 29 c9~~

Times slightly in error owing  
 to irregular working of  
 driving clock and consequent  
 elongation of images.

Copied for printer



98 Even measures Copied from Book 16, p. 26.  
 Odd measures " " Book 15, p. 35

PLOTTED

C. 10667, W. Helphini, Oct. 29, 1897.

1	16	30	25 d 5	
	16	35	25 <del>d 8</del> d 6	L + T
	16	40	25 d 4	
	16	45	25 d 4	
	16	50	25 d 4	
6	16	55	25 -	
	17	00	25 -	

Copied for printer



Even measures Copied from Book 16, p. 22.  
 Odd measures " " Book 15, p. 24.

99

PLOTTED

C 10678, W. Melfhini, Nov. 3, 1897.

1 11 50 32 d5

11 55 32 d8

12 00 32 d4

12 05 32 d4

~~12 10 32 d4~~

6 12 15 32 d8

12 20 32 d8

12 25 32 d8

12 30 32 d8

12 35 32 d9

12 40 32 e5 T

12 12 45 32 e1

~~12 50 32 e6~~~~12 55 32 e5~~~~13 00 32 e8~~

13 05 32 e4

13 10 32 e9

18 13 15 32 — T f5 assumed

13 20 32 g1

13 25 32 g8

13 30 32 h5

22 T L6

Copied for printer



100 Even measures Copied from Book 16, p. 27.  
 Odd measures " " Book 15, p. 35.

C 10747, W. Helphini, Nov. 27, 1897.

Possible error of 55.

1	13	50	03	e7
	13	57	33	f3
	<del>14</del>	<del>04</del>	<del>03</del>	<del>-</del>
	14	<sup>05</sup> 11	33	g4
	<del>14</del>	<del>19</del>	<del>03</del>	<del>-</del>
6	14	25	33	-
	14	39	03	-
8	14	54	03	-
	<del>15</del>	<del>03</del>	<del>03</del>	<del>-</del>

Copied for printer



Even measures copied from Book 16, p. 29. 101  
 Odd " " " Book 15, p. 36.

C 10768, W. Hefphini, klee. 2, 1897.

PLOTTED

1	10	17	26	—
	10	22	26	—
	10	27	26	k0
	10	32	26	k1
	10	37	26	k1
6	10	42	26	k1
	10	47	26	k3
	10	52	26	k4
	10	57	26	k1
	11	02	26	k5
	11	07	26	k3
	11	12	26	k6
12	11	17	26	k5
	11	22	26	k7
	11	27	26	k6
	11	32	26	k6
	<del>11</del>	<del>37</del>	<del>26</del>	<del>k7</del>
	11	42	26	—
	11	47	26	—
18	11	52	26	—
	11	57	26	—
	12	02	26	—
	12	07	26	—

Copied for printer



Even measures copied from Book 16, p. 29.  
 Odd " " " Book 15, p. 35

C 10809, W. Helphini, Dec. 21, 1897.

1 12 28 38 c7

12 32 38 c6

12 37 38 c7

12 42 38 c7

12 47 38 c7

6 12 52 38 c8

12 57 38 c8

13 02 38 c8

13 07 38 c8

13 12 38 c9

13 17 38 d1

12 13 22 38 -

13 27 38 -

14 13 32 38 -

13 37 38 -

Copied for printer



Even measures copied from Book 16, p. 16 108  
 Odd " " " Book 15, p. 14.

C 11045, W. Melphini, Mech 3, 1898.

PLOTTED

1

—

—

17 54 56

—

—

—

6

—

—

21 02 <sup>28</sup>58 f0

21 07<sup>6</sup> 58 f0

21 12<sup>1</sup> 58 e6

(5p. 17p.)

21 18<sup>7</sup> 28 e6

12

21 22<sup>1</sup> 58 e4

21 27<sup>6</sup> 58 e0

21 32<sup>1</sup> 58 e5v

21 37<sup>6</sup> 58 ~~45~~ e2 Lr T

21 42<sup>1</sup> 58 d7

21 47<sup>6</sup> 58 ~~43~~ d5 Lr T

18

21 52<sup>1</sup> 58 e0 d8 Lr T

21 57<sup>6</sup> 58 c9v

20

22 02<sup>1</sup> 58 e0 d3 Lr T

22 06 58 c7

Copied for printer

The above times may be 1m fast



Even measures copied from Book 16, p. 19.  
 Odd measures " " Book 15, p. 28.

C 11229, W. Melpheini, June 12, 1898.

	<sup>t</sup>	-
1	16	4 <sup>2</sup> 5 <sup>2</sup> 4 -
	16	46 54 -
	16	51 54 -
	16	56 54 -
6	17	01 54 -
7	17	06 54 -
8	17	11 54 -
9	17	16 54 -
10	17	21 54 -
11	17	26 54 k 5
12	17	3 <sup>2</sup> 5 <sup>2</sup> 4 k 4
	17	36 54 - assume k 3
	17	41 54 k 3
	17	46 54 k 2
	17	51 54 k 2
	17	56 54 k 2
18	18	01 54 k 3
	18	06 54 k 0
	18	11 54 k 4
	18	16 54 k 0
	18	21 54 k 3 L
	18	26 54 k 5
24	18	31 54 k 6
	<sup>t</sup>	

Copied for printer



Even Measures copied from Book 16, p. 19. 105  
 Odd " " " Book 15, p. 29.

C 11230, W. Helphini, June 12, 1898.

PLOTTED

1		<sup>t</sup>	-		
2	18	<del>41</del>	<sup>t</sup> 54	-	
3	18	46	54	76	
	18	51	54	<del>94</del>	<sup>L</sup> 78 L & T
	18	56	54	84	
6	19	01	54	28	
	19	06	54	33	
	19	11	54	27	
	19	16	54	25	
	19	21	54	25	
	19	26	54	<del>20</del>	<sup>T</sup> 22 L & T
12	19	31	54	27	<sup>e1</sup> L & T
			d9		

Copied for printer



Even measures copied from Book 16, p. 18.  
 Odd " " " " Book 15, p. 26.

C 11246, W. Helphini, June 17, 1898.

1  
 14 ~~14~~ 28? 75  
 14 14 28? 72  
 14 18 28? 28  
 14 21 58? 73 L  
 14 24 28? 26

6  
 14 28 28 e4  
 14 33 28 28 v  
 14 38 28 e1  
 14 43 28 d9  
 14 48 28 d9  
 14 53 28 e1

12  
 14 58 28 e1  
 15 03 28 e0  
 15 08 28 d5  
 15 13 28 d8 v  
 15 18 28 ~~d1~~ d6 L & T  
 15 23 28 d7 v

18  
 15 28 28 d1  
~~15 33 28 d4~~

20  
 15 38 28 d0  
 15 43 28 d4

1 ~~14~~ c

23 ~~14~~ c d1

Copied for Printer



Even measures copied from Book 16, p. 18  
 Odd " " " " Book 15, p. 29. 107

PLOTTED

C 11274, W. Helphini, July 1, 1898.

1	t	—
	t	—
	t	—
	t	—
5	16 47	03 c 3
6	16 52	03 <del>68</del> c 5 L r T
	16 57	03 c 5 <sup>v</sup>
	17 02	03 c 1
	17 07	03 c 2
	17 12	03 c 2
	17 17	03 c 1
12	17 22	<sup>3</sup> 03 c 3
	17 27	03 c 3
	17 32	03 c 1
	17 37	03 c 2
	17 42	03 c 3
	17 47	03 c 4
18	17 52	03 c 5
	17 57	03 c 6
	18 02	03 c 5
	18 07	03 c 6
18	18 12	<sup>3</sup> 03 c 4
	18 17	03 c 7
24	18 22	03 c 6
	18 27	03 c 8

Copied for printer



Even measures copied from Book 16, p. 21.  
 Odd " " " Book 15, p. 26.

PLOTTED

C 11275, W. Delphinus, July 1, 1898.

1	t	c8
18	37 03	c6
18	42 03	c6
18	47 03	c6
18	52 03	c8
6	18 57 03	e7
	19 02 03	d2 ✓
	19 07 03	e7
	19 12 03	- ✓
	19 17 03	- ✓
	19 22 03	d2
12	{ 19 <sup>27</sup> double 33 }	e0 T
13	{ 19 32 03 }	d7
14	19 37 03	e2
	19 42 03	d9
	19 47 03	e1
17	t	e4

Copied for printer

Bk-16, p. 53.



Even measures copied from Book 16, p. 17 109  
 Odd " " " Book 15, p. 30.

C 11281, W. Delphini, July 6, 1898.

PLOTTED

1	t		c6
	13	43 31	c3
	13	48 31	c5
	13	53 31	c6
	13	58 31	c6
6	14	03 31	c8
	14	08 31	c7
	14	13 31	c8
	14	18 31	c9
	14	23 31	d4 ✓ d1 L + T
	14	28 31	c9
12	14	33 31	d7 T d2 L + T
	14	38 31	d3
	14	43 31	d6
	14	48 31	d6
	t	?	d9
	t	?	e0
18	t	?	e3
	t	?	e2
	t	?	e3
	t	?	e4
22	t	?	e5
	t	?	—

Copied for printer



Even measures copied from Book 16, p. 19.  
 Odd " " " Book 15, p. 28.

PLOTTED

C 11335, W. Helphini, Aug. 4, 1898.

1	13	03.5 <sup>b</sup>	—
	13	08.5 <sup>b</sup>	k9
	13	13.5 <sup>b</sup>	k3
	13	18.5 <sup>b</sup>	k8 <sup>v</sup>
	13	23.5 <sup>b</sup>	k2 <sup>v</sup>
6	13	28.5 <sup>b</sup>	— assume k7 <sup>v</sup> k4 L + T
	13	33.5 <sup>b</sup>	<del>k3</del> k2 BK. 15, p. 60.
	13	38.5 <sup>b</sup>	— assume k7 k2
	13	43.5 <sup>b</sup>	k1
	13	<sup>c</sup> 48.5 <sup>b</sup>	k6 <sup>v</sup>
	13	53.5 <sup>b</sup>	k1
12	13	<sup>c</sup> 58.5 <sup>b</sup>	k5 <sup>v</sup>
	14	03.5 <sup>b</sup>	<del>k6</del> k4 L + T
14	14	08.5 <sup>b</sup>	k3
	14	13.5 <sup>b</sup>	k0

t

Copied for printer



Even measures copied from Book 16, p. 21.  
 Odd " " " Book 15, p. 25.

111

PLOTTED

c 11367, W. Delphini, Aug. 28, 1898

1	18	38	47	c6
	18	43	47	c5
	18	48	47	c6
	18	53	47	c4
	18	58	47	c5
6	19	03	47	c7
	19	08	47	c5
	19	13	47	c3
	19	18	47	c3
	19	23	47	c3
	19	28	47	b9
12	19	33	47	c1
	19	38	47	<del>c7</del> c5 L+T
	19	43	47	b8 v
	19	48	47	c5 b c0 L+T
	19	53	47	c0
	19	58	47	c1
18	20	03	47	c0
	20	08	47	c1
20	20	13	47	c2
	20	18	47	b9
	20	23	47	b9 assumed
23	20	28	47	b9

Copied for printer



Even measures from Book 16, p. 20  
 Odd " " Book 15, p. 27.

PLOTTED

C 11406, W. Melfhini, Sept. 16, 1898.

1	t	-	
	17	47	29 71
	17	52	29 85
	17	57	29 <del>88</del> 76 E + T
	18	02	29 88 <sup>v</sup>
6	18	07	29 77
	18	12	29 92
	18	17	29 -
	18	22	29 -
	18	27	29 -
	18	32	29 -
12	18	37	29 -
	18	42	29 -
	18	47	29 -
	18	52	29 -
	18	57	29 -
	19	02	29 -
18	19	07	29 -
	19	12	29 -
20	19	17	29 -

Copied for printer



Even measures from Book 16, p. 20.  
 Odd " " Book 15, p. 27

113

PLOTTED

C 11422, W. Delphini, Sept. 21, 1898.

1	<del>12</del>	<del>11</del>	<del>00</del>	d1
2	<del>12</del>	<del>16</del>	<del>00</del>	d0
3	<del>12</del>	<del>21</del>	<del>00</del>	d3
4	12	26	00	d5
5	12	31	00	d7
6	12	36	00	d9
	12	41	00	e0
	12	46	00	e3
	12	51	00	e0
	12	56	00	e3
12	13	01	00	e7
	13	06	00	e7
	13	11	00	f2
	13	16	00	f3
	13	21	00	f5
	13	26	00	f5
18	13	31	00	f5
	13	36	00	f8
	13	41	00	f8
	13	46	00	g0
22	13	51	00	f7
	13	56	00	g3

Copied for printer



114

Even measures copied from Book 16, p. 21.  
 Odd " " " " Book 15, p. 25.

PLOTTED,

C 11493, W. Helphini, Oct. 20, 1898.

1 11 03 30  $\lambda 3$   
 11 08 30  $\lambda 4$   
 11 13 30  $\lambda 5$   
 11 18 30  $\lambda 0$   
 11 23 30  $\lambda 4$

6 11 28 30  $\lambda 4$   
 11 33 30  $\lambda 4$   
 11 38 30  $\lambda 3$   
 11 43 30  $\lambda 6$   
 11 48 30  $\lambda 6$   
 11 53 30 -

12 11 58 30 -  
 12 03 30 -  
 12 08 30 -  
 12 13 30  $\lambda 5$   
 12 18 30 -  
 12 23 30  $\lambda 5$

18 12 28 30 -  
 12 33 30  $\lambda 5$

20 12 38 30 -  
 12 43 30  $\lambda 0$

Copied for printer



Even measures copied from Book 16, p. 22. 115  
 Odd " " " Book 15, p. 24.

PLOTTED

C 11494, W. Helphini, Oct. 20, 1898.

1	12	53	30	h2	
	12	58	30	g9	
	13	03	30	<del>g7</del> ✓	g5 L + T
	13	08	30	<del>g4</del> ✓	g8 L + T
	13	13	30	<del>g0</del> ✓	g6 L + T
6	13	18	30	<del>g1</del> ✓	g6 Bk. 16, p. 51.
	13	23	30	<del>g7</del> ✓	
	13	28	30	<del>g7</del> ✓	f4 L + T
	13	33	30	f1	
	13	38	30	e7	
	13	43	30	e5	
12	13	48	30	e7	
	13	53	30	e0	
	13	58	30	d8	
	14	03	30	d7	
	14	08	30	d7	
	14	13	30	d6	
18	14	18	30	d3	
	14	23	30	d5	
	14	28	30	d3	
	14	33	30	d1	
22	14	38	30	d3	
		t		d0	

Copied for printer



Even measures copied from Book 16, p. 17.  
 Odd " " " Book 15, p. 15.

C 11502, W. Helphini, Oct. 25, 1898.

1 10 58 33 69  
 11 03 33 69  
 11 08 33 60  
 11 13 33 62  
 11 18 33 60

6 11 23 33 61  
 11 28 33 69  
 11 33 33 69  
 11 38 33 68  
 11 43 33 67  
 11 48 33 68

Copied for printer

12 11 53 33 65  
 11 58 33 68  
 12 03 33 66  
 12 08 33 68  
 12 13 33 66  
 12 18 33 68

18 12 23 33 64  
 12 28 33 67  
 12 33 33 63  
 12 38 33 66

22 12 43 33 63  
 t 66



Even measures copied from Book 16, p. 32. 117  
 Odd " " " Book 15, p. 39.

C 8709, W. helphini, Jan. 3, 1896.

1 t b6  
 10 25 43 b8  
 30 43 b6  
 35 43 b5  
 40 43 b6  
 6 45 43 b6  
 t b7

Copied for printer

Odd measures copied from Book 15, p. 38  
 Even measures copied from Book 16, p. 30.  
 C 8721, W. helphini, Jan. 4, 1896.

1 t b4  
 2 10 40.7 b3  
 10 45.7 b3  
 4 c b4

Copied for printer



Even measures copied from Book 16, p. 31.  
 Odd " " " Book 15, p. 37.

C 8726, W. helphini, Jan. 5, 1896.

1 t -  
 c c7  
 10 42.8 d0  
 10 47.8 d0  
 10 52.8 d3  
 6 10 57.8 c7  
 7 11 02.8 -  
 8 t

Copied for printer

Odd measures copied from Book 15, p. 38.  
 Even measures copied from Book 16, p. 31.  
 C 8934, W. helphini, Dec 7, 1896.

1 refraction c3  
 21 06 39 c4  
 21 11 38 c5  
 21 16 38 c6  
 21 21 37 c5  
 6 21 26 36 c4  
 21 31 35 c7  
 21 36 34 c6  
 21 41 33 c7  
 10 21 46 33 c7  
 11 t c8

Copied for printer



Even measures copied from Book 16, p. 30. 119  
 Odd " " " Book 15, p. 38.

C 8967, W. Helphini, Aug 17, 1896.

1 20 57 <sup>7</sup>28.4 c0  
 2 21 02 <sup>7</sup>28.4 b7  
 21 07 <sup>7</sup>28.4 c0  
 4 21 12 <sup>7</sup>28.4 b7  
 c0

Copied for printer

Odd measures copied from Book 15, p. 38  
 Even measures copied from Book 16, p. 30.  
 C 8968, W. Helphini, Aug 17, 1896.

1 t b8  
 2 21 37 27 c3

To be put with single image plates

Odd measures copied from Book 15, p. 42.  
 Even measures copied from Book 16, p. 34.  
 C 9009, W. Helphini, Aug 31, 1896.

1 - <sup>all 8s</sup> b5  
 18 37.2 } b7  
 18 42.2 } b8  
 18 47.1 } b8  
 18 52.1 } b7  
 6 18 57.1 } b4  
 19 02.1 } b7  
 19 07.1 } b7  
 19 12.1 } b7  
 10 19 17.0 } b7  
 19 22.0 } b8

Copied for printer

There may be an error of 8s  
 due to the method of using several  
 8s breaks to produce separation of images.



120

Even measures copied from Book 16, p. 32.  
 Odd " " " Book 15, p. 40.

C 9010, W. Melfhini, Mch 31, 1896.

1 19 31 51 66  
 19 36 59 65  
 19 41 58 67  
 19 46 <sup>57</sup>49 66  
 19 51 <sup>56</sup>48 67  
 6 19 56 <sup>56</sup>47 66  
 20 01 <sup>55</sup>46 68  
 20 06 <sup>54</sup>46 67  
 20 11 <sup>53</sup>45 c0  
 10 20 16 <sup>52</sup>44 68

Copied for printer

Odd measures copied from Book 15, p. 40.  
 Even measures copied from Book 16, p. 32.  
 C 9011, W. Melfhini, Mch 31, 1896.

1 t c1  
 20 31 50 c1  
 20 36 49 68  
 20 41 48 c1  
 20 46 47 68  
 6 20 51 47 c0  
 20 56 46 68  
 21 01 45 c3  
 21 06 44 69  
 10 21 11 43 c4  
 21 <sup>t</sup>16 34 c1

Copied for printer



even measures copied from Book 16, p. 37. 121  
 Odd " " " Book 15, p. 43.

C 9026, W. Helphini, Apr. 5, 1896.

2  
 PLOTTED

1 19 29 20(?) -  
 19 35 20 f8  
 19 42 50 -  
 19 50 20 -  
 19 57 50 -  
 6 20 05 20 -  
 20 12 50 -

To be put with  
 single image plates.

Odd measures copied from Book 15, p. 40  
 even measures copied from Book 16, p. 31.  
 C 9028, W. Helphini, Apr. 5, 1896.

1 20 57 50 k3  
 2 21 05 20 l2

Copied for printer

Odd measures copied from Book 15, p. 38.  
 even measures copied from Book 16, p. 30.  
 C 9136, W. Helphini, April 29, 1896.

PLOTTED

PLOTTED

1  $\frac{d}{T}$   
 19 22 58 ~~e7~~ e0 L+T  
 19 27 58 d8  
 19 32 58 e2  
 19 37 58 ~~e4~~ e5 L+T  
 6 19 42 58 e6<sup>v</sup>  
 19 47 58 e3  
 8 19 52 58 e7  
 19 57 58 e6

Copied for printer



122

Even measures copied from Book 16, p. 37.  
 Odd " " " Book 15, p. 43.

C 9137, W. Melfhini, Apr. 29, 1896.

1 20 02 58.28  
 2 20 07 58.76  
 20 12 58.75  
 4 20 17 58.77  
 20 22 58.79

Copied for printer

Odd measures copied from Book 15, p. 41.  
 Even measures copied from Book 16, p. 33.  
 C 9215, W. Melfhini, May 23, 1896.

1 17 34.68 c0  
 17 39.68 c9  
 17 43.67 c0  
 17 48.67 c9  
 17 53.67 c2  
 6 17 58.67 c0.  
 18 03.57 c2  
 18 08.57 c1  
 18 ~~13.5~~ 13.6 -  
 18 18.56 c3  
 18 23.56 c3  
 12 18 28.56 c3  
 18 33.46 c5  
 14 -

Copied for printer



Even measures copied from Book 16, p. 34.  
 Odd " " " Book 15, p. 42.

123

C 9216, W. Hefphini, May 23, 1896.

PLOTTED

1 19 57.1 c7  
 2 20 02.1 c7  
 20 06.2 c9

"Identification of images exceedingly doubtful"

Even measures from Book 16, p. 33.

Odd " " " Book 15, p. 41.

C 9258, W. Hefphini, June 2, 1896.

These were measures copied from Bk 11, p. 217

11 15 33.0 - 1 - 10 78 15 28.0  
 15 38.0 f3 -  
 15 43.0 e8 -  
 15 48.0 e9 -  
 15 53.0 e3 -  
 16 15 58.0 e5 6 - 15 06.0  
 16 03.0 e1 - Copied for printer  
 18 16 08.0 d6 8 78 no 7 seen  
 16 13.0 d8 9 - 15 23.0

Even measures copied from Book 16, p. 37.  
 Odd " " " Book 15, p. 43.  
 C 9260, W. Hefphini, June 2, 1896.

1 t c0  
 t c3  
 t b9  
 t c2  
 t b9  
 6 t b8  
 t b9  
 8 t b9  
 9 19 28 30 b7  
 10 19 33 30 b8  
 11 19 38 30 b6

7 measures in red from Bk 11, p. 217.

Copied for printer

PLOTTED



Even measures copied from Book 16, p. 36.  
 Odd " " " " Book 15, p. 44.

C 9281, W. Delphini, June 10, 1896.

PLOTTED

This image had  
9<sup>m</sup> exposure.

1	<del>15</del> <sup>38.0</sup> <del>38.0</del>		b6
	15	<del>43.0</del> <sup>38.0</sup>	b8
	15	<del>48.0</del> <sup>43.0</sup>	b5
	15	<del>53.0</del> <sup>48.0</sup>	b7
	15	<del>58.0</del> <sup>53.0</sup>	b6
	15	<del>58.0</del> <sup>58.0</sup>	b8
6	16	<del>03.0</del> <sup>03.0</sup>	b6
	16	<del>08.0</del> <sup>08.0</sup>	b8
	16	<del>13.0</del> <sup>15.5</sup>	b6
	16	23.0	b7
	16	28.0	b7
	16	33.0	b7
12	16	38.0	b6
	16	43.0	b6
	16	48.0	b6
	16	53.0	b6
	16	58.0	b7
	17	03.0	b7
18	17	08.0	b6
	17	13.0	b6
	17	18.0	b6
	17	23.0	b6
22			b7

Copied for printer



Wm measures copied from Book 16, p. 35. 125  
 Odd " " " Book 15, p. 44.

C 9282, W. Melpheini, June 10, 1896.

PLOTTED

1	17	53.0	b6
	17	58.0	b5
	18	03.0	b5
	18	08.0	b5
	18	13.0	b6
6	18	18.0	b4
	18	23.0	b6
	18	28.0	b6
	18	33.0	b6
	18	38.0	b4
	18	43.0	b7
12	18	48.0	b6
	18	53.0	b7
	18	<del>58.0</del>	b4
	19	03.0	b7
	19	08.0	b6
18	19	13.0	b7
	19	18.0	b6
	19	23.0	b7
20	19	28.0	b6
	19	33.0	b7

Copied for printer

Wm measures copied from Book 16, p. 36  
 Odd " " " Book 15, p. 42.  
 C 9286, W. Melpheini, June 16, 1896.

PLOTTED

1	17	<del>19.0</del> <sup>8.0</sup>	b8
2	17	<del>24.0</del> <sup>3.0</sup>	b7
	17	<del>28.0</del> <sup>8.0</sup>	b8
	17	<del>34.0</del> <sup>3.0</sup>	e1
4	17	<del>38.0</del> <sup>8.0</sup>	b8

Copied for printer



Even measures copied from Book 16, p. 35.  
 Odd " " " Book 15, p. 45.

C 9304, *W. Delphinus*, June 20, 1896.

PLOTTED

1

14	12.5	b9
14	17.5	b7
14	22.5	b7
14	28.0	b6
14	33.0	b8

6

14	37.5	b6
14	43.0	b7
14	48.0	b6
14	53.0	b8
14	58.0	b7
15	02.5	b7

12

15	07.5	b6
15	12.5	b7
15	17.5	b6
15	22.5	b8
15	27.5	b6
15	32.5	b7

Copied for printer

18

15	37.5	b7
15	42.5	b7



Even measures copied from Book 16, p. 33.  
Odd " " " Book 15, p. 40.

127

PLOTTED

C 9312, *W. helphini*, June 26, 1896.

1	16	22.5	f1
	16	27.5	e8
	16	32.5	e8
	16	37.5	e3
	16	42.5	e8
6	16	47.5	d9
	16	52.5	e3
	16	57.5	d4
	17	02.5	d9
	17	07.5	d3
	17	12.5	d5
12	17	17.5	e8
	17	22.5	d2
14	17	27.5	do
	17	32.5	do
	17	37.5	
	17	42.5	e8

Copied for printer



Even measures copied from Book 16, p. 34.  
 Odd " " " Book 15, p. 42.

C 9313, W. Heliophili, June 26, 1896.

1 18 02.5 c7

18 07.5 c6

18 12.5 c5

18 17.5 c6

18 22.5 c6

6 18 27.5 c6

18 32.5 c6

18 37.5 c5

18 42.5 c5

18 47.5 c3

18 52.5 c5

12 18 57.5 c0

19 02.5 c4

14 19 07.5 c4

19 12.5 c4

~~19 17.5~~

Copied for printer



Even measures copied from Book 16, p. 34. 129  
 Odd " " " Book 15, p. 41.

C 9326, W. Melpiani, July 1, 1896.

PLOTTED

1	13	37.5	c8
	13	42.5	c4
	13	47.5	c7
	13	52.5	c2
	13	57.5	c6
6	14	02.5	c4
	14	07.5	c6
	14	12.5	b9
	14	17.5	c5
	14	22.5	c3
	14	27.5	c4
12	14	32.5	c1
	14	37.5	c3
	14	42.5	b8
	14	47.5	c1
	14	52.5	c1
	14	57.5	c1
18	15	02.5	b7
	15	07.5	b9
	15	12.5	b7
	15	17.5	b9
22	15	22.5	b7
	15	27.5	b8

Copied for printer



180

Even measures copied from Book 16, p. 35.  
 Odd " " " Book 15, p. 45

PLOTTED

C. 9372, W. Melfini, July 25, 1896.

1	13	19.5	c9
	13	24.5	d2
	13	29.5	c9
	13	34.5	d2
	13	39.5	d0
6	(3 <sup>m</sup> )	13 <del>43.5</del>	e8
	(7 <sup>m</sup> )	13 <del>48.5</del>	c9
		13 54.5	e7
		13 59.5	c8
		14 04.5	e7
		14 09.5	c8
12		14 14.5	e8
		14 19.5	c7
		14 24.5	e7
		14 29.5	c4
		14 34.5	e5
		14 39.5	c5
18		14 44.5	e4

Copied for printer

Note: There are possibly the middle times of images 6 and 7 should be ~~13 43.5~~ and ~~13 48.5~~ instead of the one minute earlier than the table would indicate.



Even measures copied from Book 16, p. 31.  
 Odd " " " " Book 15, p. 37

131

PLOTTED

C 96 30, W. Melfhini, Nov. 3, 1896.

1	12	42.5	c7
	12	47.5	c6
	12	52.5	c5
	12	57.5	c7
	13	02.5	c4
6	13	07.5	c3
	13	12.5	c1
	13	17.5	b8
	13	22.5	c1
	13	27.5	c0
	13	32.5	c0
12	13	37.5	c0
	13	42.5	c1
	13	47.5	c0
	13	52.5	b9
	13	57.5	b7
	14	02.5	b9
	14	07.5	b9
18	14	12.5	b9
	14	17.5	b8
	14	22.5	b9
	14	27.5	b7
	<del>14</del>	<del>32.5</del>	<del>b9</del>
	<del>14</del>	<del>37.5</del>	<del>b7</del>
	<del>14</del>	<del>41.0</del>	<del>b9</del>
24			

Copied for printer

Reject these three  
 images  
 W.R.C.



182

Wm measures copied from Book 16, p. 40.  
 Odd " " " Book 15, p. 46

C 10202, W. Melphini, Apr. 15, 1897.

1

19 23 01 -  
 19 27 31 -  
 19 32 31 K5  
 19 37 31 K7  
 19 42 31 K3

6

19 47 31 K4

19 52 31 K0

19 57 31 ~~g3~~

20 02 31 K3<sup>v</sup>

20 07 31 ~~f8~~ g8 L + T

20 12 31 g0

12

20 17 31 f8

20 22 31 g3

20 27 31 f6

20 32 31 27 T + L

20 37 31 ~~f6~~ L f2 L + T

20 42 31 ~~25~~ f2 L + T

18

20 47 31 f2

20 52 31 e6

Lo L + T Reject image #8.

Copied for printer



Even measures copied from Book 16, p. 39. 133  
Odd " " " Book 15, p. 46.

PLOTTED

C 10231, W. Melpini, Apr. 20, 1897.

1	17	31	29	c9
	17	36	29	do
	17	41	29	c8
	17	46	29	c7
	17	51	29	c7
6	17	56	29	c6
	18	01	29	c5
	18	06	29	c4
	18	11	29	c5
	18	16	29	c4
	18	21	29	c4
12	18	26	29	c3
	18	31	29	c4
	18	36	29	c5
	18	41	29	c4
	18	46	29	c6
	18	51	29	c3
18	18	56	29	c2

Copied for printer



PLOTTED

Wen measures copied from Book 16, p. 39.  
 Odd " " " Book 15, p. 47.

C 10232, W. Melfini, Apr. 20, 1897.

1	19	06	44	68
	19	11	29	c2
	19	16	29	68
	19	21	29	c0
	19	26	29	69
6	19	31	29	c0
	19	36	29	67
	19	41	29	68
	19	46	29	67
	19	51	29	68
	19	56	29	67
12	20	01	29	67
	20	06	29	68
	20	11	29	67
	20	16	29	68
	20	21	29	67
	20	26	29	68
18	20	31	29	67
	20	36	29	68
20	20	41	29	66

Copied for printer



Even measures copied from Book 16, p. 37. 135  
Odd " " " Book 15, p. 47.

C 10267, W. Melphini, May 4, 1897.

PLOTTED

1 18 42 30 c2

18 47 30 c4

18 52 30 c4

~~18 57 30 c6~~

19 02 30 c5

6 19 07 30 c6

19 12 30 c5

Copied for printer

Reject image #4  
ARE



136

Even measures copied from Book 16, p. 38.  
 Odd " " " " Book 15, p. 48.

PLOTTED

C 10332, W. Melpkiri, June 2, 1897.

		t	c6	
1		15 47	30 c6	
		15 52	30 c6	
		<del>15 57</del>	<del>30 c7</del>	
		<del>16 02</del>	<del>30 c7</del>	
6		16 07	30 c7	
		<del>16 12</del>	<del>30 c8</del>	
		16 17	30 <del>d4</del> c7	Book 16, p. 43.
		16 22	30 c8 <sup>v</sup>	
		16 27	30 <del>d7</del> c8	" " " "
		16 32	30 c8 <sup>v</sup>	
12		16 37	30 <del>d6</del> <sup>7</sup>	
		16 42	30 d3	
		16 47	30 d7	
		16 52	30 d5	
		16 58	30 d4	
		17 03	30 d6	
18		17 08	30 <del>d9</del> d6	Book 16, p. 43.
		17 13	30 e2	

Copied for printer

Reject measures 4, 5 and 7.  
 A.R.C.

Even measures copied from Book 16, p. 30. 137  
 Odd " " " " Book 15, p. 39.

C 10808, W. Melpini, Dec. 21, 1897.

PLOTTED

1  
 10 22 38 b8  
 10 27 38 b8  
 10 32 38 b9  
 10 37 38 b6  
 10 42 38 b9

6  
 10 47 38 b7  
 10 52 38 b9  
 10 57 38 b9  
 11 02 38 b9  
 11 07 38 b7  
 11 12 38 b9

12  
 11 17 38 b7  
 11 22 38 c0  
 11 27 38 b7  
 11 32 38 c0  
 11 37 38 b9  
 11 42 38 c0

18  
 11 47 38 b7  
 11 52 38 c1  
~~11 57 38 b8~~  
 12 02 38 b9  
 12 07 38 b7  
 12 12 38 c4

24  
~~12 16<sup>c</sup> 38 c2~~

Copied for printer



188

Even measures copied from Book 16, p. 40.  
 Odd " " " Book 15, p. 47

PLOTTED

C 11019, W. Melfhini, Feb. 26, 1898.

1  
 2 22 <sup>10</sup>09 <sup>28</sup>58 h7  
 22 14 58 h5  
 4 22 19 58 h8  
 22 24 58 h7

Copied for printer

PLOTTED

Even measures copied from Book 16, p. 39.  
 Odd " " " Book 15, p. 50.  
 C 11067, W. Melfhini, Feb. 8, 1898.

1 clds. —  
 2 clds. —  
 3 <sup>20</sup>19 <sup>03</sup>54 58 —  
 4 <sup>20</sup>19 <sup>08</sup>59 58 b6  
 5 20 <sup>13</sup>04 58 b6  
 6 20 <sup>18</sup>09 58 b7  
 20 <sup>23</sup>14 58 b5  
 20 <sup>28</sup>19 58 b5  
 20 <sup>33</sup>24 58 b6  
 20 <sup>38</sup>29 58 b6  
 20 <sup>43</sup>34 58 b7  
 12 20 <sup>48</sup>39 58 b7  
 20 <sup>53</sup>44 58 b7

Copied for printer

Even measures copied from Book 16, p. 37 139  
 Odd " " " Book 15, p. 50

C 11405, W. Melpini, Sept. 16, 1898.

PLOTTED

1 t f8  
 2 14 48 28 b7  
c b8

To be put with  
 single image plates.

Even measures copied from Book 16, p. 37.  
 Odd " " " Book 15, p. 51.  
 C 11618, W. Melpini, Dec. 2, 1898.

PLOTTED

1 t c1  
 12 38 34 c4  
 12 43 34 c1  
 12 48 34 c6  
 12 53 34 c3  
6 12 58 34 c6  
 13 03 34 c0 ✓  
 13 08 34 c6 ✓  
 13 13 34 f9 ✓  
 13 18 34 c3  
 13 23 34 b9  
12 13 28 34 c3  
 13 33 34 c6  
14 13 38 34 —  
 13 43 34

Copied for printer

These times are approximate, because no error for  
 Willard is given.



Even measures copied from Bk 14, p. 41  
Odd " " " " Book 15, p. 37.

C 9024, W. Hefluni, Apr. 4, 1896

PLOTTED

18 12  $\frac{52.2}{36.2}$  -

18 20 <sup>22.2</sup>  
~~21.2~~ b6

18  $\begin{array}{r} 27 \\ 35 \\ \hline \end{array}$   $\begin{array}{r} 52.2 \\ 21.2 \\ \hline \end{array}$

18  $\frac{35}{42}$   $\frac{222}{512}$  65

~~18 50 212 67~~~~18 57 512 67~~~~19 1.5 240 kg~~

17 00 21.2 0 1  
Hd meas

Copied for printer

Shil not have been measuring

11	11	11	11	11
----	----	----	----	----

- See bottom of next page

ures continued to B. 1

Even measures copied from Bk 16, p. 41  
Odd " " " Book 15, p. 39  
C 9161, W. H. Phelps, May 4, 1896.

PLOTTED

19 12 59 74

19 <sup>18</sup>  
~~22~~ 59 26

Copied for printer

even measures copied from Bk 16, p. 41.  
odd " " " " Book 15, p. 21.  
C 10333, W. Kliphini, June 2, 1897

18 48 30 -

18 53 30 —

18 58 30 -

19 03 30 K6

19 08 30 28

19 13 30 - h7 assumed

19 18 30 26

19 23 30 49

19 28 30 ~~46~~ **h6** 1. x T

17	20	30	h 0
19	33	30	h 8 ✓

19	38	30	49
----	----	----	----

Copied for printer



Even measures copied from Bk 16, p. 41. 141  
 odd " " " 15, p. 22.

C 11195, W. Helphini, May 14, 1898.

PLOTTED

1	t	—
	19 06 40	g8
	19 11 40	f5 ✓
	19 16 40	— f6 assumed
	19 21 40	f7
6	19 26 40	<del>h3</del> f6 Bk. 16, p. 47.
	19 31 40	— h4 assumed
	19 36 40	h6
	19 41 40	h5
	19 46 40	h3
	19 51 40	h8
12	19 56 40	—
	20 01 40	—
14	20 06 40	—
	20 11 40	h3
	t	

Copied for printer

C9024 (continued from p. 140)  
 Even measures here from Bk 11, p. 217.

8	19	<sup>05</sup> <del>12</del>	<sup>22.2</sup> <del>51.2</del>	f7
9	19	<sup>20</sup> <del>20</del>	<sup>22.2</sup> <del>21.2</del>	b7 <del>8th ed</del>
10	19	<sup>20</sup> <del>27</del>	<sup>22.2</sup> <del>51.2</del>	b8
11	19	<sup>35</sup> <del>35</del>	<sup>22.2</sup> <del>21.2</del>	c2
12	19	<sup>42</sup> <del>42</del>	<sup>22.2</sup> <del>51.2</del>	b7
13	19	<sup>42</sup> <del>50</del>	<sup>22.2</sup> <del>21.2</del>	a9

Copied for printer



Even measures copied from Book 16, p. 41.  
 odd " " " " 15, p. 11.

C 12030, W. Melfhini, July 11, 1899.

1

t

—

18 58 31 l2

19 03 31 95

19 08 31 l0

19 13 31 l0

6

19 18 31 k8

19 23 31 k0

19 28 31 —

19 33 31 —

19 38 31 —

19 43 31 f0

12

19 48 31 —

19 53 31 d7

19 58 31 —

20 03 31 e5

20 08 31 —

20 13 31 95

18

t

—

Copied for printer

Odd measures copied from Book 15, p. 51. RWZ 143  
 even " " " " 16 p. 180 - AE

C 12184, W. Delphin. October 1, 1899.

1	t	-
	13 04	28 L4
	13 09	28 K9
	13 14	28 K4
	13 19	28 K5
6	13 24	28 K0
	13 29	28 K2
	13 34	28 K0
	<del>13 39</del>	<del>28 h7</del>
	13 44	28 -
	<del>13 49</del>	<del>28 -</del>
12	13 54	28 f4
	c	-
	c	f2
15	c	

Copied for Printer



144

Too

Copied from Book 7.

C 1345, July 24, 1888. Jup. Ec. I R<sub>E</sub>.

	h	m	s	0.1	0.1	0.1	0.1	Mean	
1	15	37	06	9.0	6.1	2.9	8.8	8.7 ✓	.2
2			16	7.9	6.1	1.8	7.7	7.8 ✓	.2
3			26	7.6	6.2	1.4	7.3	7.4 ✓	.2, 3
4			36	7.4	6.3	1.1	7.0	7.2 ✓	.3, 4
5			46	7.3	6.2	1.1	7.0	7.2 ✓	.4, 3
6			56	7.2	6.0	1.2	7.1	7.2 ✓	.3, 1
7		38	06	7.0	6.0	1.0	6.9	7.0 ✓	.1
* 8a			16	6.9	6.3	0.6	7.0	7.0 ✓	.1
b			26						
9			36	6.3	5.6	0.7	6.6	6.4 ✓	.3
10			46	6.3	5.7	0.6	6.5	6.4 ✓	.2
11			56	6.1	5.9	0.2	6.1	6.1 ✓	0
12		39	06	5.8	5.8	0.0	5.9	5.8 ✓	.1
13			16	5.6	5.4 ✓	0.2	6.1	5.8 ✓	.5
14			26	6.3 ✓	6.3 ✓	0.0	5.9	6.1 ✓	.4
15			36	5.5	5.8	0.3	5.6	5.6 ✓	.1
16			46	5.2	5.4	0.2	5.7	5.4 ✓	.5
17			56	5.7	5.8	0.1	5.8	5.8 ✓	.1
18		40	06	6.1	6.2 ✓	0.1	5.8	6.0 ✓	.3
* 19a			16	5.2 ✓	5.5 ✓	0.3	5.6	5.4 ✓	.4
b			26						
20			36	5.9 ✓	6.2 ✓	0.3	5.6	5.8 ✓	.3
21			46	5.6	5.7	0.1	5.8	5.7 ✓	.2
22			56	5.9	5.8	0.1	6.0	6.0 ✓	.1
23		41	06	5.6	5.8	0.2	5.7	5.6 ✓	.1
24			16	6.1	6.4	0.3	5.6	5.8 ✓	.5
25	15	41	26	5.9	6.1	0.2	5.7	5.8 ✓	.2

Measures in red from Book 11, p. 168.

✓ Indicates no change on remeasurement.

\* 8a + 8b + 19a + 19b were marked as parts of same images but were later found to be separate images. 8b + 19b could not be measured because of trail.



Copied from Book 7.

145

180

C 2031, July 16, 1889. Jup. Ec. II Re.  
G.M.T.

1	17	36	40	7.8	5.8	2.0	8.0 <sup>3</sup>	7.9 <sup>v</sup>	.2
2	17	36	50	7.4	5.1	2.3	8.3 <sup>v</sup>	7.8 <sup>v</sup>	.9
3		t							
4		t							
5		t							
6		t		7.4	5.9	1.5	7.5 <sup>v</sup>	7.4 <sup>v</sup>	.1
7	17	37	10	6.9	6.2	0.7	6.7 <sup>v</sup>	6.8 <sup>v</sup>	.2
8	17	37	20	6.4	6.0	0.4	6.4 <sup>v</sup>	6.4 <sup>v</sup>	.0
9	17	37	30	6.3	5.9	0.4	6.4 <sup>v</sup>	6.4 <sup>v</sup>	.1
10	17	37	40	6.5	6.4	0.1	6.1 <sup>v</sup>	6.3 <sup>v</sup>	.4
11	17	37	50	6.9	6.5	0.4	6.4 <sup>v</sup>	6.6 <sup>v</sup>	.5
12	17	38	00	6.7	6.6	0.1	6.1 <sup>v</sup>	6.4 <sup>v</sup>	.6
13	17	38	10	5.8	6.1 <sup>v</sup>	0.3	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.1
14	17	38	20	6.2	6.6 <sup>v</sup>	0.4	5.6 <sup>v</sup>	5.9 <sup>v</sup>	.6
15	17	38	30	5.9	5.9	0.0	6.0 <sup>v</sup>	6.0 <sup>v</sup>	.1
16	17	38	40	5.8	5.4	0.4	6.4 <sup>v</sup>	6.1 <sup>v</sup>	.6
17	17	38	50	5.5	5.8	0.3	5.7 <sup>v</sup>	5.6 <sup>v</sup>	.2
18	17	39	00	5.7	5.7	0.0	6.0 <sup>v</sup>	5.8 <sup>v</sup>	.3
19	17	39	10	5.1	5.8	0.7	5.3 <sup>v</sup>	5.2 <sup>v</sup>	.2
20	17	39	20	5.3	5.8	0.5	5.5 <sup>v</sup>	5.4 <sup>v</sup>	.2
21	17	39	30	6.2 <sup>v</sup>	6.2	0.0	6.0 <sup>v</sup>	6.1 <sup>v</sup>	.2
22	17	39	40	5.7	5.7 <sup>v</sup>	0.0	6.0 <sup>v</sup>	5.8 <sup>v</sup>	.3
23	17	39	50	5.3	6.5	1.2	4.8 <sup>v</sup>	5.0 <sup>v</sup>	.5
24	17	40	00	6.0	6.3	0.3	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.3
25	17	40	10	5.8	5.8	0.0	6.0 <sup>v</sup>	5.9 <sup>v</sup>	.2

✓ indicates no change on remeasurement.

Sum 1320 21 1261 6.0  
6.0



Copied from Book 7.

C 4157, Nov. 6, 1891. Inf. Ec. I Re.

6	15	04	26							
7	15	04	36							
8	15	04	46	9.2	4.9	4.3	9.0 <sup>v</sup>	9.1 <sup>v</sup>	.2	
9	15	04	56	7.7	4.6	3.1	7.8 <sup>v</sup>	7.8 <sup>v</sup>	.1	
10	15	05	06	7.3	4.4	2.9	7.6 <sup>v</sup>	7.4 <sup>v</sup>	.3	
11	15	05	16	7.1	4.6	2.5	7.2 <sup>v</sup>	7.2 <sup>v</sup>	9.1	
12	15	05	26	7.0	4.7 <sup>v</sup>	2.3 <sup>v</sup>	7.0 <sup>v</sup>	7.0 <sup>v</sup>	X.0	
13	15	05	36	6.4	4.8 <sup>v</sup>	1.6	6.3 <sup>v</sup>	6.4 <sup>v</sup>	.6.5	
14	15	05	46	6.4	5.3	1.1	5.8 <sup>v</sup>	6.1 <sup>v</sup>	7.6	
15	15	05	56	6.5	4.9	1.6	6.3 <sup>v</sup>	6.4 <sup>v</sup>	0.2	
16	15	06	06	6.3	4.7	1.6	6.3 <sup>v</sup>	6.3 <sup>v</sup>	.3.0	
17	15	06	16	6.3	4.4	1.9	6.6 <sup>v</sup>	6.4 <sup>v</sup>	.3	
18	15	06	26	6.5	4.8	1.7	6.4 <sup>v</sup>	6.4 <sup>v</sup>	.1	
19	15	06	36	5.7	4.7	1.0	5.7 <sup>v</sup>	5.7 <sup>v</sup>	0	
20	15	06	46	4.3	4.2	0.1	4.8 <sup>v</sup>	4.6 <sup>v</sup>	.5	
21	15	06	56	5.5 <sup>v</sup>	4.7	0.8	5.5 <sup>v</sup>	5.5 <sup>v</sup>	0	
22	15	07	06	5.4	5.8 <sup>v</sup>	0.4	4.3 <sup>v</sup>	4.8 <sup>v</sup>	1.1	
23	15	07	46	5.3	4.8	0.5	5.2 <sup>v</sup>	5.2 <sup>v</sup>	.1	
24	15	07	26	5.5	4.6	0.9	5.6 <sup>v</sup>	5.6 <sup>v</sup>	.1	
25	15	07	36	5.8	4.9	0.9	5.6 <sup>v</sup>	5.7 <sup>v</sup>	.2	
26	15	07	46	5.3	4.5	0.8	5.5 <sup>v</sup>	5.4 <sup>v</sup>	.2	
27	15	07	56	5.1	4.3	0.8	5.5 <sup>v</sup>	5.3 <sup>v</sup>	.4	
28	15	08	06	5.3	4.3	1.0	5.7 <sup>v</sup>	5.5 <sup>v</sup>	.4	
29	15	08	16	5.3	4.6	0.7	5.4 <sup>v</sup>	5.4 <sup>v</sup>	.1	
30	15	08	26	5.2	4.1	1.1	5.8 <sup>v</sup>	5.5 <sup>v</sup>	.6	

v Indicates no change on remeasurement.  
 Measures in red from Book 11, p. 168.

Sum 107.6<sup>v</sup>  
 4.7<sup>v</sup>

11/586  
 51  
 35



Copied from Book 7.

147

130

C 5-81, Jan. 2, 1893. Jup. Ec. I Re.

2	15	25	22						
3	15	25	32	8.5	4.3	4.2	8.5 <sup>v</sup>	8.5 <sup>v</sup>	0
4	15	25	42	7.4 <sup>v</sup>	3.8 <sup>v</sup>	3.6	7.9 <sup>v</sup>	7.6 <sup>v</sup>	.5
5	15	25	52	7.7 <sup>v</sup>	4.4 <sup>v</sup>	3.3	7.6 <sup>v</sup>	7.6 <sup>v</sup>	.1
6	15	26	02	6.9	3.6	3.3	7.6 <sup>v</sup>	7.2 <sup>v</sup>	.7
7	15	26	12	6.2	4.2	2.0	6.3 <sup>v</sup>	6.2 <sup>v</sup>	.1
8	15	26	22	6.7 <sup>v</sup>	5.1 <sup>v</sup>	1.6	5.9 <sup>v</sup>	6.3 <sup>v</sup>	.8
9	15	26	32	5.9	4.3	1.6	5.9 <sup>v</sup>	5.9 <sup>v</sup>	0
10	15	26	42	5.8	4.4	1.4	5.7 <sup>v</sup>	5.8 <sup>v</sup>	.1
11	15	26	52	5.5	4.3	1.2	5.5 <sup>v</sup>	5.5 <sup>v</sup>	0
12	15	27	02	5.6	4.4	1.2	5.5 <sup>v</sup>	5.6 <sup>v</sup>	.1
13	15	27	12	5.3	4.4	0.9	5.2 <sup>v</sup>	5.2 <sup>v</sup>	.1
14	15	27	22	5.6	4.8	0.8	5.1 <sup>v</sup>	5.4 <sup>v</sup>	.5
15	15	27	32	5.6	4.5	1.1	5.4 <sup>v</sup>	5.5 <sup>v</sup>	.2
16	15	27	42	5.5	4.3	1.2	5.5 <sup>v</sup>	5.5 <sup>v</sup>	0
17	15	27	52	5.3	4.5	0.8	5.1 <sup>v</sup>	5.2 <sup>v</sup>	.2
18	15	28	02	5.3	4.4	0.9	5.2 <sup>v</sup>	5.2 <sup>v</sup>	.1
19	15	28	12	5.0	4.2	0.8	5.1 <sup>v</sup>	5.0 <sup>v</sup>	.1
20	15	28	22	4.8	4.3	0.5	4.8 <sup>v</sup>	4.8 <sup>v</sup>	0
21	15	28	32	5.0	4.1	0.9	5.2 <sup>v</sup>	5.1 <sup>v</sup>	.2
22	15	28	42	4.8	4.1	0.7	5.0 <sup>v</sup>	4.9 <sup>v</sup>	.2
23	15	28	52	4.8	4.4	0.4	4.7 <sup>v</sup>	4.8 <sup>v</sup>	.1
24	15	29	02	4.6	4.4	0.2	4.5 <sup>v</sup>	4.6 <sup>v</sup>	.1
25	15	29	12	5.2	4.7	0.5	4.8 <sup>v</sup>	5.0 <sup>v</sup>	.4
26	15	29	22	4.9	4.3	0.6	4.9 <sup>v</sup>	4.9 <sup>v</sup>	0

v Indicates no change on re-measurement.

Sum 104.2<sup>v</sup>4.3<sup>v</sup>

$$\begin{array}{r} 7 \overline{) 341} \\ 49 \end{array}$$



Copied from Book 7.

C 6023, Oct. 5, 1893. Jup. Ec. I hlio.

15	15	39	39	7.6	7.8	0.2	7.5 <sup>v</sup>	7.6 <sup>v</sup>	.1
16	15	39	49	7.2	7.7	0.5	7.2 <sup>v</sup>	7.2 <sup>v</sup>	0
17	15	39	59	6.7	6.9	0.2	7.5 <sup>v</sup>	7.1 <sup>v</sup>	.8
18	15	40	09	6.7	6.8	0.1	7.6 <sup>v</sup>	7.2 <sup>v</sup>	.9
19	15	40	19	7.7 <sup>v</sup>	7.9 <sup>v</sup>	0.2	7.5 <sup>v</sup>	7.6 <sup>v</sup>	.2
20	15	40	29	7.0 <sup>v</sup>	7.7	0.7	7.0 <sup>v</sup>	7.0 <sup>v</sup>	0
21	15	40	39	7.4	7.8	0.4	7.3 <sup>v</sup>	7.4 <sup>v</sup>	.1
22	15	40	49	7.6	7.7	0.1	7.6 <sup>v</sup>	7.6 <sup>v</sup>	0
23		c		7.7	7.7	0.0	7.7 <sup>v</sup>	7.7 <sup>v</sup>	0
24	15	41	09	7.7	7.7	0.0	7.7 <sup>v</sup>	7.7 <sup>v</sup>	0
25	15	41	19	7.6	7.7	0.1	7.6 <sup>v</sup>	7.6 <sup>v</sup>	0
26	15	41	29	7.8	7.8	0.0	7.7 <sup>v</sup>	7.8 <sup>v</sup>	.1
27	15	41	39	7.7	7.7	0.0	7.7 <sup>v</sup>	7.7 <sup>v</sup>	0
28	15	41	49	7.7	7.8	0.1	7.6 <sup>v</sup>	7.6 <sup>v</sup>	.1
29	15	41	59	7.6	7.7	0.1	7.6 <sup>v</sup>	7.6 <sup>v</sup>	0
30	15	42	09	7.9	7.7	0.2	7.9 <sup>v</sup>	7.9 <sup>v</sup>	0
31	15	42	19	7.9	7.8	0.1	7.8 <sup>v</sup>	7.8 <sup>v</sup>	.1
32	15	42	29	7.9 <sup>v</sup>	7.7	0.2	7.9 <sup>v</sup>	7.9 <sup>v</sup>	0
33	15	42	39	6.6 <sup>v</sup>	7.7	1.1	7.9 <sup>v</sup>	7.9 <sup>v</sup>	0
34	15	42	49	7.9	7.7	0.2	7.9 <sup>v</sup>	7.9 <sup>v</sup>	0
35	15	42	59	8.4	7.7	0.7	8.4 <sup>v</sup>	8.4 <sup>v</sup>	0
36	15	43	09	9.0	7.8	1.2	8.9 <sup>v</sup>	9.0 <sup>v</sup>	.1
37	15	43	19	8.7	7.7	1.0	8.7 <sup>v</sup>	8.7 <sup>v</sup>	0
38	15	43	29	8.7	7.7	1.0	8.7 <sup>v</sup>	8.7 <sup>v</sup>	0
39	15	43	39	9.5	7.8	1.7	9.4 <sup>v</sup>	9.4 <sup>v</sup>	.1

2/511  
7.3

✓ Indicates no change on remeasurement.  
 Measures in red from Book 11, p. 168.

June 1917    Puth. 23    1840  
 7.7<sup>v</sup>    7.7



Copied from Book 7.

149

180

C 6691, Apr. 5, 1894. Jup. Ec. II Re.

5	13	40	45	8.8 <sup>✓</sup>	6.7 <sup>✓</sup>	2.1	9.3 <sup>2</sup>	9.0 <sup>✓</sup>	.5	4
6	13	40	55	9.2	6.4	2.8	9.9 <sup>2</sup> <del>10.0</del>	9.6 <sup>✓</sup>	.8	7
7	13	41	05	8.0	7.2 <sup>✓</sup>	0.8	8.0 <sup>2</sup> <del>8.0</del>	8.0 <sup>✓</sup>	0	1
8	13	41	15	7.7	6.7	1.0	8.2 <sup>1</sup> <del>8.0</del>	8.0 <sup>✓</sup>	.5	4
9	13	41	25	7.7	6.7	1.0	8.2 <sup>1</sup> <del>8.0</del>	8.0 <sup>✓</sup>	.5	4
10	13	41	35	7.3	6.7	0.6	7.8 <sup>7</sup> <del>7.4</del>	7.6 <sup>5</sup> <sup>✓</sup>	.5	4
11	13	41	45	7.4	7.1	1.3 <sup>3</sup>	8.5 <sup>2</sup> <del>8.0</del>	7.4 <sup>✓</sup>	.1	0
12	13	41	55	6.7	6.7	0.0	7.2 <sup>1</sup> <del>7.0</del>	7.0 <sup>✓</sup>	.5	4
13	13	42	05	6.7	7.1	0.4	6.8 <sup>7</sup> <del>6.8</del>	6.8 <sup>7</sup> <sup>✓</sup>	.1	0
14	13	42	15	6.9	6.8	0.1	7.3 <sup>2</sup> <del>7.1</del>	7.1 <sup>0</sup> <sup>✓</sup>	.4	2
15	13	42	25	6.9	6.9	0.0	7.2 <sup>1</sup> <del>7.0</del>	7.0 <sup>✓</sup>	.3	2
16	13	42	35	6.8	6.7	0.1	7.3 <sup>2</sup> <del>7.1</del>	7.0 <sup>✓</sup>	.5	4
17	13	42	45	6.4	7.1	0.7	6.5 <sup>4</sup> <del>6.5</del>	6.4 <sup>✓</sup>	.1	0
18	13	42	55	6.7	6.8	0.1	7.1 <sup>0</sup> <del>6.8</del>	6.8 <sup>6</sup> <sup>✓</sup>	.4	2
19	13	43	05	6.8	6.7	0.1	7.3 <sup>2</sup> <del>7.0</del>	7.0 <sup>✓</sup>	.5	4
20	13	43	15	7.2	7.4	0.2	7.0 <sup>6</sup> <del>6.9</del>	7.0 <sup>✓</sup>	.1	3
21	13	43	25	7.2	7.7 <sup>✓</sup>	0.5	6.7 <sup>6</sup> <del>6.7</del>	7.0 <sup>✓</sup>	.2	6
22	13	43	35	8.2	9.2	1.0	6.8 <sup>2</sup> <del>6.8</del>	7.2 <sup>✓</sup>	2.0	21
23	13	43	45	<del>9.3</del>	<del>8.9</del>	<del>0.4</del>	—	—	1.7	—
24	13	43	55	7.9	7.8	0.1	7.3 <sup>2</sup> <del>7.1</del>	7.6 <sup>✓</sup>	.6	7
25	13	44	05	7.2	7.2	0.0	7.2 <sup>1</sup> <del>7.0</del>	7.2 <sup>✓</sup>	0	1
26	13	44	15	6.7	6.9	0.2	7.0 <sup>6</sup> <del>6.8</del>	6.8 <sup>✓</sup>	.3	2
27	13	44	25	6.3	7.3	1.0	6.2 <sup>1</sup> <del>6.2</del>	6.2 <sup>✓</sup>	.1	2
28	13	44	35	6.6	6.9	0.3	6.9 <sup>6</sup> <del>6.8</del>	6.8 <sup>7</sup> <sup>✓</sup>	.3	2
29	13	44	45	6.3	7.2	0.9	6.3 <sup>2</sup> <del>6.3</del>	6.3 <sup>✓</sup>	0	1

✓ Indicates no change on remeasurement.

Sum 1788 24) 1699 (7.1  
 7.2 168  
 19



150

TB<sub>0</sub>

Copied from Book T.

C 7582, Feb. 26, 1895, Jup. Ec. II Re.

4	13	37	23	8.3	4.7	3.6	8.3	8.3 <sup>v</sup>	0
5	13	37	33	8.0	4.8	3.2	7.9	8.0 <sup>v</sup>	.1
6	13	37	43	6.9 <sup>v</sup>	4.4	2.5	7.2	7.0 <sup>v</sup>	.3
7	13	37	53	6.9	4.3	2.6	7.3	7.1 <sup>v</sup>	.4
8	13	38	03	6.8	4.6	2.2	6.9	6.8 <sup>v</sup>	.1
9	13	38	13	6.4	5.2 <sup>v</sup>	1.2	5.9	6.2 <sup>v</sup>	.5
10	13	38	23	5.8	4.6	1.2	5.9	5.8 <sup>v</sup>	.1
11	13	38	33	5.8	4.9	0.9	5.6	5.7 <sup>v</sup>	.2
12	13	38	43	5.6	4.7	0.9	5.6	5.6 <sup>v</sup>	0
13	13	38	53	5.3	4.5	0.8	5.5	5.4 <sup>v</sup>	.2
14	13	39	03	5.2	4.9	0.3	5.0	5.1 <sup>v</sup>	.2
15	13	39	13	4.9	4.7	0.2	4.9	4.9 <sup>v</sup>	0
16	13	39	23	4.6	4.8	0.2	4.5	4.6 <sup>v</sup>	.1
17	13	39	33	4.6	4.4	0.2	4.9	4.8 <sup>v</sup>	.3
18	13	39	43	4.7	4.9	0.2	4.5	4.6 <sup>v</sup>	.2
19	13	39	53	4.3	4.6	0.3	4.4	4.4 <sup>v</sup>	.1
20	13	40	03	4.3	4.8	0.5	4.2	4.2 <sup>v</sup>	.1
21	13	40	13	4.2	4.7	0.5	4.2	4.2 <sup>v</sup>	0
22	13	40	23	4.5	5.0	0.5	4.2	4.4 <sup>v</sup>	.3
23	13	40	33	4.1	4.8	0.7	4.0	4.0 <sup>v</sup>	.1
24	13	40	43	4.0	4.8	0.8	3.9	4.0 <sup>v</sup>	.1
25	13	40	53	4.2	4.8	0.6	4.1	4.2 <sup>v</sup>	.1
26	13	41	03	3.8	4.6	0.8	3.9	3.8 <sup>v</sup>	.1
27	13	41	13	3.6	4.7	1.8	3.6	3.6 <sup>v</sup>	0
28	13	41	23	3.8	4.7	0.9	3.8	3.8 <sup>v</sup>	0

<sup>v</sup> Indicates no change on remeasurement.Sum 1179<sup>v</sup>  
4.7<sup>v</sup>1179<sup>v</sup>  
4.7<sup>v</sup>



Copied from Book 7.

151

180

4 Transits found & covered  
in Sept 12 1916

~~C 7673, April 6, 1895, Jup. Ec II Re.~~

C 7596 March 5 1895 ✓

6	15	54	00	8.8	3.7	5.1	9.5	9.2 ✓	.7
7	15	54	10	9.1	4.7	4.4	8.8	9.0 ✓	.3
8	15	54	20	7.7	4.2	3.5	7.9	7.8 ✓	.2
9	15	54	30	7.7	4.2	3.5	7.9	7.8 ✓	.2
10	15	54	40	7.8	4.2	3.5	7.9	7.8 ✓	.1
11	15	54	50	7.1	4.2	2.9	7.3	7.2 ✓	.2
12	15	55	00	6.7	4.4	2.3	6.7	6.7 ✓	0
13	15	55	10	6.3	4.3	2.0	6.4	6.4 ✓	.1
14	15	55	20	6.2	4.4	1.8	6.2	6.2 ✓	0
15	15	55	30	6.7	4.6	2.1	6.5	6.6 ✓	.2
16	15	55	40	6.0	4.7	1.3	5.7	5.8 ✓	.3
17	15	55	50	5.8	4.3	1.5	5.9	5.8 ✓	.1
18	15	56	00	5.7	3.8	1.9	6.3	6.0 ✓	.6
19	15	56	10	5.7	4.5	1.2	5.6	5.6 ✓	.1
20	15	56	20	5.4	4.3	1.1	5.5	5.4 ✓	.1
21	15	56	30	5.8	4.3	1.5	5.9	5.8 ✓	.1
22	15	56	40	5.7	4.3	1.4	5.8	5.8 ✓	.1
23	15	56	50	5.7	4.6	1.1	5.5	5.6 ✓	.2
24	15	57	00	5.8	4.7	1.1	5.5	5.6 ✓	.3
25	15	57	10	6.1	4.8	1.3	5.7	5.9 ✓	.4
26	15	57	20	5.3	4.1	1.2	5.6	5.4 ✓	.3
27	15	57	30	5.2	4.4	0.8	5.2	5.2 ✓	0
28	15	57	40	5.4	4.6	0.8	5.2	5.3 ✓	.2
29	15	57	50	5.5	4.3	1.2	5.6	5.6 ✓	.1
30	15	58	00	5.6	4.7	0.9	5.3	5.4 ✓	.3

✓ Indicates no change on remeasurement.

Sum 1094 ✓  
4.4 ✓

119  
5.4



152

TB.

Copied from Book 7.

Handwritten found  
 & corrected a Sept 12 1916

C 7596, ~~Feb 5, 1895~~, ~~July~~. Ec II Re.  
 April 6 ✓ ✓

	L	m	s						
1 (15 <sup>50</sup> 50 <sup>10</sup> )	16 <sup>15</sup>	12 <sup>54</sup>	06 <sup>00</sup>	8.3	6.3	2.0	8.5	8.4 ✓	.2
2	16	12	16	7.6	5.8	1.8	8.3	8.0 ✓	.7
3	16	12	26	7.7	6.3	1.4	7.9	7.8 ✓	.2
4	16	12	36	7.6	6.1	1.5	8.0	7.8 ✓	.4
5	16	12	46	7.6	6.3	1.3	7.8	7.7 ✓	.2
6	16 <sup>15</sup>	12 <sup>54</sup>	56 <sup>00</sup>	7.4	5.9	1.5	8.0	7.7 ✓	.6
7	16	13	06	7.2	6.5	0.7	7.2	7.2 ✓	0
8	16	13	16	7.1	6.6	0.5	7.0	7.0 ✓	.1
9	16	13	26	6.9	6.3	0.6	7.1	7.0 ✓	.2
10	16	13	36	6.7	6.3	0.4	6.9	6.8 ✓	.2
11	16	13	46	6.7	6.7	0.0	6.5	6.6 ✓	.2
12	16	13	56	6.7	6.5	0.2	6.7	6.7 ✓	0
13	16	14	06	6.7	6.1	0.6	7.1	6.9 ✓	.4
14	16	14	16	6.7	6.6	0.1	6.6	6.6 ✓	.1
15	16	14	26	6.6	6.7	0.1	6.4	6.5 ✓	.2
16	16	14	36	6.6	6.6	0.0	6.5	6.6 ✓	.1
17	16	14	46	6.1	6.4	0.3	6.2	6.2 ✓	.1
18	16	14	56	6.4	6.7	0.3	6.2	6.3 ✓	.2
19	16	15	06	6.4	6.5	0.1	6.4	6.4 ✓	0
20	16	15	16	6.2	6.6	0.4	6.1	6.2 ✓	.1
21	16	15	26	6.3	6.7	0.4	6.1	6.2 ✓	.2
22	16	15	36	6.4	6.7	0.3	6.2	6.3 ✓	.2
23	16	15	46	6.2	6.8	0.6	5.9	6.0 ✓	.3
24	16	15	56	6.5	6.8	0.3	6.2	6.4 ✓	.3
25	16	16	06	6.1	6.8	0.7	5.8	6.0 ✓	.3

Sum 1350 1616 ✓  
 Mean 53 6.5 ✓

919  
 6.2



Copied from Book 7

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180

C 9040, Apr. 9, 1896, Jup. Ec. I R<sub>E</sub>.

1	has	13	08	18						
2	Assumed to have an exposure of 8.75 s each.	13	08	27	8.5	5.3	3.2	8.7	8.6 ✓	.2
3		13	08	36	6.8	5.6	1.2	6.7	6.8 ✓	.1
4		13	08	45	7.6	5.6	2.0	7.5	7.6 ✓	.1
5		13	08	53	7.3	5.7	1.6	7.1	7.2 ✓	.2
6		13	09	02	7.0	5.5	1.5	7.0	7.0 ✓	0
7	Each image has an exposure of 8.75 except image 14 which is evidently double exposure.	13	09	11				—		
8		13	09	20	6.7	5.4	1.3	6.8	6.8 ✓	.1
9		13	09	28	6.7	5.6	1.1	6.6	6.6 ✓	.1
10		13	09	37	6.2	5.4	0.8	6.3	6.2 ✓	.1
11		13	09	46	6.3	5.7	0.6	6.1	6.2 ✓	.2
12	Each image has an exposure of 8.75 except image 14 which is evidently double exposure.	13	09	55	6.2	5.3	0.9	6.4	6.3 ✓	.2
13		13	10	03	5.9	5.5	0.4	5.9	5.9 ✓	0
14		13	10	16	5.5	4.9 ✓	0.6	6.1	5.8 ✓	.6
15		13	10	30	5.9	5.6	0.3	5.8	5.8 ✓	.1
16		13	10	38	5.8	5.5	0.3	5.8	5.8 ✓	0
17	Each image has an exposure of 8.16 seconds.	13	10	47	5.8	5.5	0.3	5.8	5.8 ✓	0
18		13	10	56	5.7	5.6	0.1	5.6	5.6 ✓	.1
19		13	11	05	5.7	5.5	0.2	5.7	5.7 ✓	0
20		13	11	13	5.8	5.8	0.0	5.5	5.6 ✓	.3
21		13	11	21	5.7	5.8	0.1	5.4	5.6 ✓	.3
22	Each image has an exposure of 8.16 seconds.	13	11	29	5.4	5.5	0.1	5.4	5.4 ✓	0
23		13	11	37	5.7	5.7	0.0	5.5	5.6 ✓	.2
24		13	11	45	5.7	5.8	0.1	5.4	5.6 ✓	.3
25		13	11	54	5.7	5.7	0.0	5.5	5.6 ✓	.2

✓ Indicates no change on remeasurement

Sum 1616 1275 ✓  
 Mean 7 5.5 ✓

1275 / 1616  
 1275 / 1616



Copied from Book 7.

C 10887, Jan. 9, 1898, Inf. Ec. II blis.

12	20	27	34	5.6	3.6	2.0	6.4	6.0 <sup>✓</sup>	.8
13	20	28	34	5.2	3.6	1.6	6.0	5.6 <sup>✓</sup>	.8
14	20	29	34	5.8 <sup>✓</sup>	4.2	1.6	6.0	5.9 <sup>✓</sup>	.2
15	20	30	34	5.3 <sup>✓</sup>	4.0	1.3	5.7	5.5 <sup>✓</sup>	.4
16	20	31	34	5.9	4.6 <sup>✓</sup>	1.3	5.7	5.8 <sup>✓</sup>	.6 ?
17	20	32	34	5.6	4.1 <sup>✓</sup>	1.5	5.9	5.8 <sup>✓</sup>	.3
18	20	33	34	5.7	4.6	1.1	5.5	5.6 <sup>✓</sup>	.2
19	20	34	34	5.8	4.4	1.4	5.8	5.8 <sup>✓</sup>	0
20	20	35	34	6.0	4.6	1.4	5.8	5.9 <sup>✓</sup>	.2
21	20	36	34	5.7	4.4	1.3	5.7	5.7 <sup>✓</sup>	0
22	20	37	34	5.7	4.4	1.3	5.7	5.7 <sup>✓</sup>	0
23	20	38	34	5.7	4.2	1.5	5.9	5.8 <sup>✓</sup>	.2
24	20	39	34	5.8	4.4	1.4	5.8	5.8 <sup>✓</sup>	0
25	20	40	34	5.9	4.5	1.4	5.8	5.8 <sup>✓</sup>	.1
26	20	41	34	5.7	4.4	1.3	5.7	5.7 <sup>✓</sup>	0
27	20	42	34	5.8	4.5	1.3	5.7	5.8 <sup>✓</sup>	.1
28	20	43	34	5.9	4.6	1.3	5.7	5.8 <sup>✓</sup>	.2
29	20	44	34	5.8	4.7	1.1	5.5	5.6 <sup>✓</sup>	.3
30	20	45	34	5.7	4.7	1.0	5.4	5.6 <sup>✓</sup>	.3
31	20	46	34	5.8	4.5	1.3	5.7	5.8 <sup>✓</sup>	.1
32	20	47	34	5.8	4.4	1.4	5.8	5.8 <sup>✓</sup>	0
33	20	48	34	6.4	4.3	2.1	6.5	6.4 <sup>✓</sup>	.1
34	20	49	34	6.7	4.6	2.1	6.5	6.6 <sup>✓</sup>	.2
35	20	50	34	7.8	4.5	3.3	7.7	7.8 <sup>✓</sup>	.1
36	20	51	34	9.5	4.7	4.8	9.2	9.4 <sup>✓</sup>	.3

✓ Indicates no change on remeasurement.  
 Sum 1095  
 4.4



Copied from Book 7.

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OE

C 13816, April 19, 1902. Jup. Sat. III Reap.

	<i>h</i>	<i>m.</i>	<i>s.</i>				<i>v</i>	<i>v</i>	
1	20	41	28						
2	20	42	28						
3	20	43	28						
4	20	44	28						
5	20	45	28						
6	20	46	28						
7	20	47	28						
8	20	48	28						
9	20	49	28						
10	20	50	28	8.5	5.7 <sup>v</sup>	2.8	8.5	8.5 <sup>v</sup>	0.0
11	20	51	28	7.8	6.3 <sup>v</sup>	1.5	7.2	7.5 <sup>v</sup>	0.6
12	20	52	28	6.9 <sup>v</sup>	5.8 <sup>v</sup>	1.1	6.8	6.8 <sup>v</sup>	0.1
13	20	53	28	6.0	5.8 <sup>v</sup>	0.2	6.0	6.0 <sup>v</sup>	0.1
14	20	54	28	5.9	5.6 <sup>v</sup>	0.3	4.8	5.0 <sup>v</sup>	0.4
15	20	55	28	5.2 <sup>v</sup>	6.1 <sup>v</sup>	0.9	5.2	5.4 <sup>v</sup>	0.3
16	20	56	28	5.5	6.0 <sup>v</sup>	0.5	4.5	4.7 <sup>v</sup>	0.4
17	20	57	28	4.9	6.1 <sup>v</sup>	1.2	4.7	4.6 <sup>v</sup>	0.2
18	20	58	28	4.5	5.5 <sup>v</sup>	1.0	4.8	4.8 <sup>v</sup>	0.1
19	20	59	28	4.9 <sup>v</sup>	5.8 <sup>v</sup>	0.9	5.4	5.2 <sup>v</sup>	0.5
20	21	00	28	4.2	5.2 <sup>v</sup>	1.0	5.3	5.1 <sup>v</sup>	0.4
21	21	01	28	4.9 <sup>v</sup>	5.3 <sup>v</sup>	0.4	5.3	5.2 <sup>v</sup>	0.3
22	21	02	28	5.0	5.4 <sup>v</sup>	0.4	5.3	5.2 <sup>v</sup>	0.1
23	21	03	28	5.2	5.6 <sup>v</sup>	0.4			
24	21	04	28						
25	21	05	28						

Measures in red from Book 11, p. 201.

Sum, 74.4<sup>v</sup>  
5.7<sup>v</sup><sup>v</sup> Indicates no change on remeasurement



156

26

Copied from Book 7.

C13866, June 6, 1902. Jup. Sat. IV. Dis.

10	18	55	28	4.8	4.5	0.3	5.2	5.0 <sup>v</sup>	0.4 <sup>v</sup>
11	18	56	28	5.1	4.1 <sup>v</sup>	1.0	5.9	5.5 <sup>v</sup>	0.8
12	18	57	28	5.1	5.0 <sup>v</sup>	0.1	5.0	5.0 <sup>v</sup>	0.1
13	18	58	28	4.9	4.3	0.6	5.5	5.2 <sup>v</sup>	0.6
14	18	59	28	4.6	4.0 <sup>v</sup>	0.6	5.5	5.0 <sup>v</sup>	1.4 <sup>v</sup> 9
15	19	00	28	4.5	3.6 <sup>v</sup>	0.9	5.8	5.2 <sup>v</sup>	1.3
16	19	01	28	4.9	4.5 <sup>v</sup>	0.4	5.3	5.1 <sup>v</sup>	0.4 <sup>v</sup>
17	19	02	28	4.7	4.3	0.4	5.3	5.0 <sup>v</sup>	0.6
18	19	03	28	4.9	3.8 <sup>v</sup>	1.1	6.0	5.4 <sup>v</sup>	1.1
19	19	04	28	4.2 <sup>v</sup>	4.0 <sup>v</sup>	0.2	5.1	4.2 <sup>v</sup>	0.9
20	19	05	28	4.9	4.2	0.7	5.6	5.2 <sup>v</sup>	0.7
21	19	06	28	4.9	3.9	1.0	5.9	5.5 <sup>v</sup>	1.0
22	19	07	28	4.9	4.1 <sup>v</sup>	0.8	5.7	5.3 <sup>v</sup>	0.8
23	19	08	28	5.5	4.2	1.3	6.2	5.8 <sup>v</sup>	0.7
24	19	09	28	5.2 <sup>v</sup>	4.4 <sup>v</sup>	0.8	5.7	5.4 <sup>v</sup>	0.5
25	19	10	28	6.5	5.9 <sup>v</sup>	0.6	5.5	6.0 <sup>v</sup>	1.0
26	19	11	28	7.3	6.1 <sup>v</sup>	1.2	6.4	6.7 <sup>v</sup>	1.2
27	19	12	28	6.2 <sup>v</sup>	5.4 <sup>v</sup>	0.8	5.7	6.0 <sup>v</sup>	0.5
28	19	13	28	6.9 <sup>v</sup>	5.8 <sup>v</sup>	1.1	6.0	6.4 <sup>v</sup>	0.9
29	19	14	28	6.0	6.1 <sup>v</sup>	0.1	4.8	5.4 <sup>v</sup>	1.2
30	19	15	28	5.2	5.1 <sup>v</sup>	0.1	5.0	5.1 <sup>v</sup>	0.4 <sup>v</sup> + 2
31	19	16	28	7.0	7.5 <sup>v</sup>	1.7	6.6	7.0 <sup>v</sup>	0.9
32	19	17	28	7.5	5.6 <sup>v</sup>	1.9	6.8	7.2 <sup>v</sup>	0.7
33	19	18	28	8.0	6.9 <sup>v</sup>	1.1	6.0	7.0 <sup>v</sup>	2.0
34	19	19	28	6.5	6.9 <sup>v</sup>	0.4	9.3	8.3 <sup>v</sup>	2.0

Measures in red from book 11, p. 201

Sum 12.4<sup>v</sup>  
4.9

v Indicates no change on remeasurement



Copied from Book 7.

157  
26

C 13 880, June 23, 1902. Ec. Jup. Sat. IV. Rep.

10	17	46	28	<del>4.7</del>	<del>4.7</del>	✓	✓		
11	17	47	28	8.0	4.1 <sup>✓</sup>	3.9	8.9	8.4 <sup>✓</sup>	0.9
12	17	48	28	5.5	4.5 <sup>✓</sup>	1.0	6.0	5.8 <sup>✓</sup>	0.5
13	17	49	28	6.1	4.6 <sup>✓</sup>	1.5	6.5	6.3 <sup>✓</sup>	0.4
14	17	50	28	7.0	5.2 <sup>✓</sup>	1.8	6.8	6.9 <sup>✓</sup>	0.8 <sup>+2</sup>
15	17	51	28	6.5	5.3 <sup>✓</sup>	1.2	6.2	6.4 <sup>✓</sup>	0.3
16	17	52	28	5.5	4.9 <sup>✓</sup>	0.6	5.6	5.6 <sup>✓</sup>	0.1
17	17	53	28	5.3	4.6 <sup>✓</sup>	0.7	5.7	5.5 <sup>✓</sup>	1.2 <sup>-4</sup>
18	17	54	28	5.1	4.7 <sup>✓</sup>	0.4	5.4	5.2 <sup>✓</sup>	0.3
19	17	55	28	5.5	4.3 <sup>✓</sup>	1.2	6.2	5.8 <sup>✓</sup>	0.7
20	17	56	28	5.3	4.9 <sup>✓</sup>	0.4	5.4	5.4 <sup>✓</sup>	0.1
21	17	57	28	5.3	4.8 <sup>✓</sup>	1.1 <sup>0.5</sup>	5.5	5.4 <sup>✓</sup>	0.8 <sup>-2</sup>
22	17	58	28	5.9	4.8 <sup>✓</sup>	1.1	6.1	6.0 <sup>✓</sup>	0.2
23	17	59	28	5.8	5.5 <sup>✓</sup>	0.3	5.3	5.6 <sup>✓</sup>	0.5
24	18	00	28	5.9 <sup>✓</sup>	4.8 <sup>✓</sup>	1.1	6.1	6.0 <sup>✓</sup>	0.2
25	18	01	28	5.0 <sup>6.1<sup>✓</sup></sup>	4.8 <sup>✓</sup>	0.2 <sup>1.3</sup>	6.3	6.2 <sup>✓</sup>	0.2
26	18	02	28	5.5	5.1 <sup>✓</sup>	0.4	5.4	5.4 <sup>✓</sup>	0.1
27	18	03	28	5.9	5.4 <sup>✓</sup>	0.5	5.5	5.7 <sup>✓</sup>	0.4
28	18	04	28	5.6	5.1 <sup>✓</sup>	0.5	5.5	5.6 <sup>✓</sup>	0.1
29	18	05	28	5.4	5.1 <sup>✓</sup>	0.3	5.3	5.4 <sup>✓</sup>	0.1
30	18	06	28	6.3 <sup>✓</sup>	5.9 <sup>✓</sup>	0.4	5.4	5.8 <sup>✓</sup>	0.9
31	18	07	28	5.9	5.1 <sup>✓</sup>	0.8	5.8	5.8 <sup>✓</sup>	0.1
32	18	08	28	6.1	5.1 <sup>✓</sup>	1.0	6.0	6.0 <sup>✓</sup>	0.1
33	18	09	28	5.1 <sup>✓</sup>	5.3 <sup>✓</sup>	0.2	4.8	5.0 <sup>✓</sup>	0.3
34	18	10	28	5.7	5.3 <sup>✓</sup>	0.4	5.4	5.6 <sup>✓</sup>	0.3

Measures in red from book 11, pp 201-202.

Sum 118.8<sup>1192</sup>  
5.0<sup>5.0</sup>

✓ Indicates no change on remeasurement



158  
26

Copied from Book 7.

C 13919, July 14, 1902.

Jup. Sat. III. Disap.

14

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21	16	59	34	4.0	4.1 <sup>v</sup>	0.1	3.8	3.4 <sup>v</sup>	0.7
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22	17	00	34	3.0	4.5 <sup>v</sup>	1.5	3.3	3.2 <sup>v</sup>	0.3
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23	17	01	34	3.7	4.7 <sup>v</sup>	1.0	3.8	3.8 <sup>v</sup>	0.1
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24	17	02	34	4.0	4.2 <sup>v</sup>	0.2	4.6	4.3 <sup>v</sup>	0.6
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25	17	03	34	3.9	4.1 <sup>v</sup>	0.2	4.6	4.2 <sup>v</sup>	0.7
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26	17	04	34	4.4 <sup>v</sup>	5.3 <sup>v</sup>	0.9	3.9	4.2 <sup>v</sup>	0.5
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27	17	05	34	3.6 <sup>v</sup>	5.2 <sup>v</sup>	1.6 <sup>0.3</sup>	4.5	4.7 <sup>v</sup>	0.4
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28	17	06	34	5.2 <sup>v</sup>	5.7 <sup>v</sup>	0.5	4.3	4.8 <sup>v</sup>	0.9
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29	17	07	34	4.2	5.2 <sup>v</sup>	1.0	3.8	4.0 <sup>v</sup>	0.4
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30	17	08	34	3.9	4.9 <sup>v</sup>	1.0	3.8	3.8 <sup>v</sup>	0.1
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31	17	09	34	4.9	5.3 <sup>v</sup>	0.4	4.4	4.6 <sup>v</sup>	0.5
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32	17	10	34	5.9	5.8 <sup>v</sup>	0.1	4.9	5.4 <sup>v</sup>	1.0
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33	17	11	34	6.5	4.2 <sup>v</sup>	2.3	7.1	6.8 <sup>v</sup>	0.6
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34	17	12	34	5.4	5.2 <sup>v</sup>	0.2	5.0	5.2 <sup>v</sup>	0.4
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35	17	13	34	6.1	5.1 <sup>v</sup>	1.0	5.8	6.0 <sup>v</sup>	0.3
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36	17	14	34	7.0	4.2 <sup>v</sup>	2.8	7.6	7.3 <sup>v</sup>	0.6
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37	17	15	34	9.0	4.6 <sup>v</sup>	4.4	9.2	9.1 <sup>v</sup>	0.2
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38	17	16	34	<del>4.9</del>	<del>4.9</del>				
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Measures in red from book 11, p. 202

Sum 82.3<sup>v</sup>4.8<sup>v</sup>

v indicates no change on remeasurement



Copied from Book 7.

159

AE

C. 13955, August 19, 1902. Jup. Sat. III. Reap.

2										
3										
4										
5										
6										
7										
8										
9	16	49	27	5.8	1.9	3.9	5.4	5.6	✓	0.4
10	16	50	27	4.6	1.8	2.8	4.3	4.4	✓	0.3
11	16	51	27	4.9 <sup>✓</sup>	2.1 <sup>✓</sup>	2.8 <sup>✓</sup>	4.3	4.6	✓	0.6
12	16	52	27	4.1 <sup>✓</sup>	1.1 <sup>✓</sup>	1.8 <sup>✓</sup>	3.3	3.1	✓	0.4
13	16	53	27	2.7 <sup>✓</sup>	1.2 <sup>✓</sup>	1.5 <sup>✓</sup>	3.0	2.8	✓	0.3
14	16	54	27	2.1 <sup>✓</sup>	1.5 <sup>✓</sup>	0.6 <sup>✓</sup>	2.1	2.1	✓	0.0
15	16	55	27	1.7	1.8 <sup>✓</sup>	0.1	1.4	1.6	✓	0.3
16	16	56	27	1.3	1.8 <sup>✓</sup>	0.5	1.0	1.2	✓	0.3
17	16	57	27	0.9	1.4 <sup>✓</sup>	0.5	1.0	1.0	✓	0.1
18	16	58	27	1.7 <sup>✓</sup>	1.8 <sup>✓</sup>	0.1	1.4	1.6	✓	0.3
19	16	59	27	1.0	1.4 <sup>✓</sup>	0.4	1.1	1.0	✓	0.1
20	17	00	27	0.8	1.1 <sup>✓</sup>	0.3	1.2	1.0	✓	0.4
21	17	01	27	1.8	1.9 <sup>✓</sup>	0.1	1.4	1.6	✓	0.4
22	17	02	27	1.4	1.1 <sup>✓</sup>	0.3	1.8	1.6	✓	0.4
23	17	03	27	0.8 <sup>✓</sup>	1.0 <sup>✓</sup>	0.2	1.3	1.0	✓	0.4
24	17	04	27	1.2	1.8 <sup>✓</sup>	0.6	0.9	1.0	✓	0.3
25	17	05	27	1.1	1.3 <sup>✓</sup>	0.2	1.3	1.2	✓	0.3
26	17	06	27	1.0	1.2 <sup>✓</sup>	0.2	1.3	1.2	✓	0.2

Measures in red from book 11, p. 202

Sum 27.2

1.5

✓ Indicates no change on remeasurement



160  
AL

Copied from Book 7.

C14009. Sept 15, 1902.

Jup. Ec. Sat. IV. Reap.

	h	m	s					
6	12	43	28	<del>4.9</del>	<del>4.9</del>	✓	✓	
7		44	28	9.0	4.3	4.7	9.7	9.4 ✓ 0.7
8		45	28	7.5	4.6	<del>2.9</del>	7.9	7.7 ✓ 0.4
9		46	28	7.1	4.2 <sup>4.7</sup>	<del>2.9</del>	7.9	7.5 ✓ 0.8
10		47	28	6.8	4.2 <sup>4.7</sup>	2.6	7.1	7.0 ✓ <del>0.8</del> -3
11	12	48	28	6.2	4.9	1.3	6.3	6.2 ✓ 0.1
12		49	28	6.3	4.9	1.4	6.4	6.4 ✓ 0.1
13		50	28	6.2	4.9	1.3	6.3	6.2 ✓ 0.1
14		51	28	6.2	5.1	1.1	6.1	6.2 ✓ 0.1
15		52	28	5.5 <sup>✓</sup>	5.1	0.4	5.4	5.4 ✓ 0.1
16		53	28	6.1	5.3	0.8	5.8	6.0 ✓ 0.3
17		54	28	5.8	5.1	0.7	5.7	5.8 ✓ 0.1
18		55	28	5.2 <sup>5.9</sup>	4.9	0.3 <sup>1.0</sup>	6.0	6.0 ✓ 0.1
19		56	28	5.8	5.1	0.7	5.7	5.8 ✓ 0.1
20		57	28	5.8	5.1	0.7	5.7	5.8 ✓ 0.1
21	12	58	28	6.0 <sup>4.7</sup>	5.1	0.9	5.9	6.0 ✓ 0.1
22		59	28	6.0	5.0	1.0	6.0	6.0 ✓ 0.0
23	13	00	28	6.2	5.0	1.2	6.2	6.2 ✓ 0.0
24		01	28	5.9	5.2	0.7	5.7	5.8 ✓ 0.2
25		02	28	5.5	5.1	0.4	5.4	5.4 ✓ 0.1
26		03	28	5.8	5.2	0.6	5.6	5.7 ✓ 0.2
27		04	28	5.8	4.7	1.1	6.1	6.0 ✓ 0.3
28		05	28	5.9	5.5	0.4	5.4	5.6 ✓ 0.5
29		06	28	6.1	5.3	0.8	5.8	6.0 ✓ 0.3
30		07	28	6.2	5.4	0.8	5.8	6.0 ✓ 0.4

Measures in red from book 11, p. 202.

Sum 119.2

5.0 ✓

✓

Indicates no change on remeasurement



Copied from Book 7.

161  
a8

	C 10887. Jan. 9, 1898.						Jup. Ec. Sat. IV. Disap.		
	h	m	s				v	v	
12	20	27	34	5.5	4.8	0.7	6.2	5.8 <sup>v</sup>	0.7
13		28	34	5.5	5.1	0.4	5.9	5.7 <sup>v</sup>	0.4
14		29	34	6.0	5.9 <sup>v</sup>	0.1	5.6	5.8 <sup>v</sup>	0.4
15		30	34	6.1	5.2	0.9	6.4	6.2 <sup>v</sup>	0.3
16		31	34	5.9	5.1	0.8	6.3	6.1 <sup>v</sup>	0.4
17		32	34	5.8	5.2	0.6	6.1	6.0 <sup>v</sup>	0.3
18		33	34	6.0	5.5	0.5	6.0	6.0 <sup>v</sup>	0.0
19		34	34	7.0 <sup>v</sup>	5.5	1.5	7.0	7.0 <sup>v</sup>	0.0
20		35	34	6.1 <sup>v</sup>	5.4	0.7	7.0	7.0 <sup>v</sup>	0.1
21	20	36	34	6.9	5.8	1.1	6.6	6.8 <sup>v</sup>	0.3
22		37	34	7.0	5.5	1.5	7.0	7.0 <sup>v</sup>	0.0
23		38	34	7.1	5.9	1.2	6.7	6.9 <sup>v</sup>	0.4
24		39	34	7.2	5.8	1.4	6.9	7.0 <sup>v</sup>	0.3
25		40	34	7.3	5.8	1.5	7.0	7.2 <sup>v</sup>	0.3
26		41	34	7.1	5.1 <sup>v</sup>	2.0	6.9	7.0 <sup>v</sup>	0.4 +2
27		42	34	7.1	5.7	1.4	6.9	7.0 <sup>v</sup>	0.2
28		43	34	8.2 <sup>v</sup>	5.4	2.8	8.3	8.2 <sup>v</sup>	0.1
29		44	34	8.0	5.3	2.7	8.2	8.1 <sup>v</sup>	0.2
30		45	34	8.2	5.9	2.3	7.8	8.0 <sup>v</sup>	0.4
31	20	46	34	<del>5.6</del>	<del>5.6</del>				
32		47	34	<del>5.2</del>	<del>5.2</del>				
33		48	34	<del>5.8</del>	<del>5.1</del>	<del>0.7</del>			
34		49	34	<del>6.2</del>	<del>5.3</del>	<del>0.9</del>			
35		50	34	<del>5.7</del>	<del>5.7</del>				
36		51	34	<del>5.9</del>	<del>5.9</del>				
				Sum	104.5				
					103.9				
					55				
					5.5				

Measures in red from book 11, p. 203  
 v indicates no change on remeasurement



Copied from Book 7.

C 8715. Jan. 3, 1896. ~~1906~~ Jup. Ec. IV, Dis.

	h	m	s				✓	✓		
6	19	21	29	4.9	4.1	0.8	4.6	4.8 <sup>v</sup>	0.5	0.3
7	19	22	29	5.0	3.9	1.1	4.9	5.0 <sup>v</sup>	0.3	0.1
8	19	23	29	4.9 <sup>v</sup>	3.8	1.1	4.9	4.9 <sup>v</sup>	0.2	0.0
9	19	24	29	4.5	4.0	0.5	4.3	4.4 <sup>v</sup>	0.4	0.2
10	19	25	29	4.5	3.7	0.8	4.6	4.6 <sup>v</sup>	0.1	0.1
11	19	26	29	4.5	4.2	0.3	4.1	4.3 <sup>v</sup>	0.6	0.4
12	19	27	29	4.5	3.9	0.6	4.4	4.4 <sup>v</sup>	0.3	0.1
13	19	28	29	4.6	3.2	1.4	3.5	4.0 <sup>v</sup>	0.4	0.1
14	19	29	29	5.0 <sup>v</sup>	4.0	1.6	5.4	5.5 <sup>v</sup>	0.4	0.2
15	19	30	29	3.9	4.5 <sup>v</sup>	0.6	4.4	4.8 <sup>v</sup>	0.9	0.1
16	19	31	29	4.9 <sup>v</sup>	4.4 <sup>v</sup>	0.5	4.3	4.6 <sup>v</sup>	0.8	0.6
17	19	32	29	4.4 <sup>v</sup>	2.6	1.8	4.3	4.8 <sup>v</sup>	1.0	0.9
18	19	33	29	4.9 <sup>v</sup>	4.5 <sup>v</sup>	0.4	3.7	4.3 <sup>v</sup>	0.9	0.2
19	19	34	29	4.4	3.9	0.5	4.3	4.4 <sup>v</sup>	0.3	0.1
20	19	35	29	4.2	3.2	1.0	4.8	4.5 <sup>v</sup>	0.4	0.6
21	19	36	29	4.2	4.0	0.2	4.0	4.1 <sup>v</sup>	0.4	0.2
22	trail			5.0 <sup>v</sup>	5.3 <sup>v</sup>	0.3	4.0	5.0 <sup>v</sup>	0.7	2.0
23	"			3.5 <sup>v</sup>	2.9 <sup>v</sup>	0.6	4.4	4.0 <sup>v</sup>	0.7	0.9
24	19	39	29	4.8	3.0	1.8	5.6	5.2 <sup>v</sup>	0.6	0.8
25	19	40	29	5.1	2.3	2.8	6.0	5.6 <sup>v</sup>	1.3	0.9
26	19	41	29	5.1	3.0	2.1	5.9	5.5 <sup>v</sup>	0.6	0.8
27	19	42	29	4.8 <sup>v</sup>	3.4	1.4	5.9	5.7 <sup>v</sup>	0.2	0.4
28	19	43	29	5.9 <sup>v</sup>	3.0	2.9	6.7	6.3 <sup>v</sup>	0.6	0.8
29	19	44	29	5.6 <sup>v</sup>	2.9	2.7	7.6	7.2 <sup>v</sup>	0.7	0.9
30	19	45	29	6.5	3.7	2.8	6.6	6.6 <sup>v</sup>	0.1	0.1
31	19	46	29	7.2	3.0	4.2	8.0	7.6 <sup>v</sup>	0.6	0.8
Sum				99.3	94.4	3.8	99.3			
				3.8	3.6		23) 870(3.8			

Measures in red from book 11, p. 203. <sup>v</sup> indicates no change or remeasurement



Copied from Book 7

163

26

C 8988. Jan. March 27, 1896. Jup. Ec. IV. Dis.

	h	m	s								
				3.6 <sup>v</sup>	1.1	3	4.0 <sup>v</sup>				7
10	13	33	30	2.9	2.5	0.4	4.1 <sup>x</sup>	3.5 <sup>v</sup>	0.5	0.6	4
11	13	34	30	3.9	3.3	0.6	3.8 <sup>x</sup>	3.8 <sup>v</sup>	0.3	0.2	1
12	13	35	30	3.5	2.5	1.0	4.0 <sup>x</sup>	3.8 <sup>v</sup>	0.5	0.6	7
13	13	36	30	3.1	2.8	0.3	3.8 <sup>x</sup>	3.2 <sup>v</sup>	0.2	0.3	4
14	13	37	30	4.1 <sup>v</sup>	3.1 <sup>v</sup>	1.0	4.0 <sup>x</sup>	4.0 <sup>v</sup>	0.1	0.0	1
15	13	38	30	3.8	2.8	2.3	4.0 <sup>x</sup>	3.9 <sup>v</sup>	1.5	0.3	4
16	13	39	30	3.9	3.1	0.8	3.8 <sup>x</sup>	3.8 <sup>v</sup>	0.1	0.5	4
17	13	40	30	3.8	2.3	1.5	3.1 <sup>x</sup>	2.4 <sup>v</sup>	0.8	0.8	7
18	13	41	30	3.6	4.0	0.4	2.8 <sup>x</sup>	3.1 <sup>v</sup>	0.0	0.9	8
19	13	42	30	3.2	2.5	0.7	3.7 <sup>x</sup>	3.6 <sup>v</sup>	0.5	0.6	7
20	13	43	30	2.9	2.7	0.2	3.2 <sup>x</sup>	3.0 <sup>v</sup>	0.3	0.4	5
21	13	44	30	3.7	3.1	0.6	3.8 <sup>x</sup>	3.8 <sup>v</sup>	0.1	0.0	1
22	13	45	30	4.2	4.0 <sup>v</sup>	0.2	3.2 <sup>x</sup>	3.7 <sup>v</sup>	1.0	0.9	8
23	13	46	30	3.9	3.2	0.7	3.7 <sup>x</sup>	3.8 <sup>v</sup>	0.2	0.1	0
24	13	47	30	4.1	3.1	1.0	4.0 <sup>x</sup>	4.0 <sup>v</sup>	0.1	0.0	1
25	13	48	30	4.5	3.1	1.4	4.4 <sup>x</sup>	4.4 <sup>v</sup>	0.1	0.0	1
26	13	49	30	4.9 <sup>v</sup>	3.4	1.5	4.5 <sup>x</sup>	4.7 <sup>v</sup>	0.4	0.3	2
27	13	50	30	4.2	3.2	1.0	4.0 <sup>x</sup>	4.7 <sup>v</sup>	0.2	0.1	0
28	13	57	30	4.3	2.8 <sup>v</sup>	0.5	3.5 <sup>x</sup>	3.9 <sup>v</sup>	0.8	0.7	6
29	13	52	30	5.3	3.1	2.2	5.2 <sup>x</sup>	5.2 <sup>v</sup>	0.1	0.0	1
30	13	53	30	5.6	3.1	2.5	5.5 <sup>x</sup>	5.6 <sup>v</sup>	0.1	0.0	1
31	13	54	30	5.2 <sup>v</sup>	3.1	2.1	5.7 <sup>x</sup>	5.2 <sup>v</sup>	0.1	0.0	1
32	13	55	30	7.0	3.1	3.9	7.1 <sup>x</sup>	7.0 <sup>v</sup>	0.1	0.0	1
33	13	56	30	7.0	2.9	4.1	7.1 <sup>x</sup>	7.0 <sup>v</sup>	0.1	0.2	3
34	13	57	30	7.5	3.3	4.2	7.2 <sup>x</sup>	7.4 <sup>v</sup>	0.3	0.2	1

Measures in red from book 11, p. 203.

Sum 748 25792 13.2  
 3.1  
 3.0 42

✓ Indicates no change on remeasurement



Copied from Book 7.

C 8995

March 27, 1896.

Jup. Ec. IV. Reap

	h	m	s				
6	18	31	30	<del>3.8</del> 3.8 7.0 2.8 4.2			
7	18	32	30	<del>5.5</del> 3.0 2.5 5.5	very diffuse	✓ in this plate	0.7 0.3
8	18	33	30	<del>7.0</del> 3.0 2.5 6.0	5.6	5.6 ✓	0.5 0.1
9	18	34	30	8.0 3.8 4.2 5.2	5.3	5.6 ✓	0.3 0.7
10	18	35	30	5.8 3.4 2.4	4.9	5.0 ✓	0.1 0.3
11	18	36	30	5.0 2.5 2.5 5.1	5.6	5.3 ✓	1.0 0.6
12	18	37	30	4.0 2.8 1.2 4.5	5.4	5.2 ✓	0.7 0.3
13	18	38	30	5.1 3.8 1.3 2.4	5.2	4.8 ✓	0.3 0.7
14	18	39	30	3.2 2.8 0.4	3.5	3.4 ✓	0.7 0.3
15	18	40	30	4.0 2.5 1.5 4.0	4.6	4.3 ✓	1.0 0.6
16	18	41	30	4.8 3.8 1.0 3.7	4.0	4.0 ✓	0.3 0.0
17	18	42	30	2.2 2.0 0.2 2.2	4.8	4.2 ✓	1.5 1.1
18	18	43	30	3.0 2.0 1.0 2.0	4.1	3.6 ✓	1.5 1.1
19	18	44	30	3.4 2.9 0.5 3.9	3.6	3.5 ✓	0.6 0.2
20	18	45	30	5.0 4.4 0.6 3.0	4.0	4.0 ✓	0.9 0.1
21	18	46	30	3.5 3.0 0.5	3.6	3.6 ✓	0.5 0.1
22	18	47	30	3.8 3.1 0.7 5.3	3.8	3.8 ✓	0.4 0.0
23	18	48	30	6.8 6.1 0.7 6.0	5.2	5.2 ✓	2.6 0.1
24	18	49	30	4.0 3.2 1.8 2.8	5.9	6.0 ✓	0.3 0.1
25	18	50	30	5.0 3.5 1.5 3.0	4.6	4.8 ✓	0.0 0.4
26	18	51	30	5.2 5.0 0.2 2.2	5.3	5.2 ✓	1.5 0.1
27	18	52	30	5.5 4.5 1.0 3.2	5.4	5.4 ✓	1.0 0.1
28	18	53	30				
29	18	54	30	4.5 4.0 0.5	3.6	4.0 ✓	0.5 0.9
30	18	55	30	6.8 6.4 0.4	3.5	5.2 ✓	2.9 0.3

Measures in red from book 11, p. 204

Sum 81.3  
3.1  
3.524/7/16 13.1  
19/26

✓ Indicates no change on remeasurement



Copied from Book 7.

165  
aE

C. 9257

June 2, 1896.

Jup. Ec. IV. Disap.

	<i>h</i>	<i>m</i>	<i>s</i>		<i>✓</i>	<i>✓</i>			
16	13	45	30	3.1	3.1	0.0	0	3.1	0.8 0.0 1
17	13	46	30	2.8	3.0	0.2	0	2.8	0.8 0.1 0
18	13	47	30	3.9	2.9	1.0	0	4.0	0.1 0.2 1
* 19	13	48	30	2.9	2.5	0.4	4	3.2	0.3 0.6 4.5
* 20	13	49	30	4.8	1.8	3.0	7	3.0	1.0 0.4 5
21	13	50	30	4.0	2.9	1.1	1	4.1	0.1 0.2 1
22	13	51	30	4.9	1.2	2.7	7	5.8	0.6 0.9 8
23	13	52	30	3.1	2.8	0.3	3	3.2	0.0 0.3 2
24	13	53	30	36.42	0.6		4	2.5	1.4 1.1 12
25	13	54	30	3.2	3.0	0.2	2	3.8	0.2 0.1 0
26	13	55	30	3.9	3.1	0.8	8	3.9	0.3 0.0 1
27	13	56	30	3.9	2.2	1.7	2	3.8	0.6 0.6 7
28	13	57	30	4.5	3.5	1.0	0	4.1	0.7 0.4 5
29	13	58	30	2.5	2.0	0.5			0.8 0.1 4
30	13	59	30	7.5	5.1	2.4			2.3 2.0
31				Bad image					
32				t					
33	14	04	30						
34	14	05	30	4.7	2.7	2.0	0	5.1	0.1 0.4 3
35	14	06	30	5.4	3.1	2.3	3	5.4	0.3 0.0 1
36	14	07	30	5.3	3.2	2.1	1	5.2	0.6 0.1 1
37	14	08	30	6.4	2.6	3.8	1	6.2	0.2 0.5 4
38	14	09	30	6.2	2.8	3.4	1	6.5	0.0 0.3 2
39	14	10	30	6.8	2.4	4.4	1	7.5	0.4 0.7 6
40	14	11	30	9.0	2.9	6.1	1	9.2	0.1 0.2 1

Measures in red from book 11, p. 204 and p. 205

\* Approximately

Sum 60.9  
3.1  
2.820/601  
30

v Indicates no change on remeasurement



Copied from Book 7.

C 9633. November 3, 1896. Jup. Ec. III Re.

[illegible]

Measures in red from book 11, p. 205.



Copied from Book 7.

187

aE

C 9741

December 3, 1896.

Jup, Ec. IV Dis.

13	19	50	29	4.8	4.5 <sup>v</sup>	0.3	3.9	4.4 <sup>v</sup>	10	0.9
14	19	51	29	4.5	4.0	0.5	4.1	4.3 <sup>v</sup>	0.5	0.4
15	19	52	29	4.9	6.0	1.1	4.1	4.5 <sup>v</sup>	2.5	0.8
16	19	53	29	4.5	3.1	1.4	5.0	4.8 <sup>v</sup>	0.4	0.5
17	19	54	29	3.7	3.4	0.3	5.0	4.9 <sup>v</sup>	0.1	0.2
18	19	55	29	4.5	4.2	0.3	3.9	4.2 <sup>v</sup>	0.7	0.6
19	19	56	29	5.1	4.5 <sup>v</sup>	0.6	4.2	4.6 <sup>v</sup>	1.0	0.9
20	19	57	29	5.1	4.3	0.8	3.8	4.8 <sup>v</sup>	0.8	1.3
21	19	58	29	5.1	4.3	0.8	3.9	4.5 <sup>v</sup>	0.8	1.2
22	19	59	29	5.2	5.0 <sup>v</sup>	0.2	3.8	4.5 <sup>v</sup>	1.5	1.4
23	20	00	29	4.9	4.1	0.8	4.4	4.6 <sup>v</sup>	0.6	0.5
24	20	01	29	4.0 <sup>v</sup>	3.5	0.5	4.1	4.0 <sup>v</sup>	0.0	0.1
25	20	02	29	4.1	3.1	1.0	4.6	4.4 <sup>v</sup>	0.4	0.5
26	20	03	29	3.4 <sup>v</sup>	3.0	0.4	4.0	3.7 <sup>v</sup>	0.5	0.6
27	20	04	29	3.9	2.2	1.7	4.6	4.2 <sup>v</sup>	1.3	0.7
28	20	05	29	3.9	2.8	1.1	4.7	4.3 <sup>v</sup>	0.7	0.8
29	20	06	29	4.2	3.1	1.1	4.7	4.4 <sup>v</sup>	0.4	0.5
30	20	07	29	3.6 <sup>v</sup>	1.9 <sup>v</sup>	1.7	5.3	4.4 <sup>v</sup>	1.6	1.7
31	20	08	29	5.1	3.2	1.9	5.5	5.3 <sup>v</sup>	0.3	0.4
32	20	09	29	5.2	3.0	2.2	5.8	5.5 <sup>v</sup>	0.5	0.6
33	20	10	29	4.8	2.7	2.1	6.5	6.0 <sup>v</sup>	0.8	0.9
34	20	11	29	6.2	2.1	4.1	6.5	6.4 <sup>v</sup>	1.4	0.3
35	20	12	29	7.0	3.2 <sup>v</sup>	3.8	7.4	7.2 <sup>v</sup>	0.3	0.4
36	20	13	29	7.5	3.1	4.8	8.0	7.8 <sup>v</sup>	0.4	0.5
37	20	14	29	8.0	3.3	4.7	8.3	8.2 <sup>v</sup>	0.2	0.3

Measures in red from Book 11, p. 205

Sum 87.6

3.6  
3.529 89.0  
2.40

v Indicates no change on remeasurement



26

Copied from Book 7.

C 9814. Dec. 23, 1896.

Jup. Ec. III Dec.

17

18

19

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23

24

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26

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28

29

30

40

31

27 t.

✓

✓

39

32

19

26

29

8.0 4.0 4.0

8.3

8.2 ✓

0.1 0.3

38

33

19

25

6.1 4.1 2.0

6.3

6.2 ✓

0.2 0.2

37

34

19

24

5.5 4.0 1.5

5.8

5.6 ✓

0.1 0.3

36

35

19

23

5.1 4.5 0.6

4.9

5.0 ✓

0.6 0.2

35

36

19

22

4.5 4.1 ✓ 0.4

4.7

4.6 ✓

0.2 0.2

34

37

19

21

3.9 ✓ 3.1 4.8 ✓ 1.7

3.4

3.6 ✓

0.9 0.5

33

38

19

20

3.5 ✓ 4.6 3.1 1.4 1.1

3.2

3.4 ✓

0.8 0.3

32

39

19

19

2.6 3.6 1.0 1.6

2.7

2.9 ✓

0.3 0.4

31

40

19

18

4.2 2.7 2.5 0.1

4.2

4.2 ✓

1.2 0.0

30

41

19

17

2.1 4.1 2.0

2.3

2.2 ✓

0.2 0.2

42

Measures in red from book 11, pp. 205 and 206.

Sum 39.0 ✓  
4.3 ✓  
3.9

✓ Indicates no change on remeasurement



Copied from Book 7.

169

aE

C 9816

December 23, 1896. Jup. Ec. III. Re.

3	22	50	29									
4	22	51	29									
5	22	52	29									
6	22	53	29									
7	22	54	29	7.5	3.1	4.4	8.0	7.8	✓	0.3	0.5	
8	22	55	29	5.6	3.1	2.5	6.1	5.8	✓	0.3	0.5	
9	22	56	29	4.5	3.0	1.5	5.1	4.8	✓	0.4	0.6	
10	22	57	29	4.8	2.9	1.9	5.5	5.2	✓	0.5	0.7	
11	22	58	29	5.2	3.7	1.5	5.1	5.2	✓	0.3	0.1	
12	22	59	29	4.2	3.7	0.5	4.1	4.2	✓	0.3	0.1	
13	23	00	29	4.2	3.2 <sup>4.0</sup>	1.0 <sup>0.2</sup>	3.8	4.0	✓	0.2	0.4	
14	23	01	29	4.9	4.0	0.9	4.5	4.7	✓	0.6	0.4	
15	23	02	29	4.8	3.8	1.0	4.6	4.7	✓	0.8	0.2	
16	23	03	29	3.9	3.1	0.8	4.4	4.2	✓	0.3	0.5	
17	23	04	29	4.9 <sup>✓</sup>	3.8 <sup>✓</sup>	1.1 <sup>✓</sup>	4.7	4.8	✓	1.9	0.2	
18	23	05	29	4.0	3.0	1.0	4.6	4.3	✓	0.4	0.6	
19	23	06	29	4.3	3.5	0.8	4.4	4.4	✓	0.1	0.1	
20	23	07	29	4.5	3.7	0.8	4.4	4.4	✓	0.3	0.1	
21	23	08	29	5.0 <sup>✓</sup>	4.1 <sup>✓</sup>	0.9 <sup>✓</sup>	4.5	4.8	✓	0.2	0.5	
22	23	09	29	5.0 <sup>✓</sup>	4.0	1.0	4.6	4.8	✓	0.6	0.4	
23	23	10	29	4.3	3.9	0.4	4.0	4.2	✓	0.5	0.3	
24	23	11	29	3.9	4.7	0.8	4.4	3.8	✓	1.3	1.1	
25	23	12	29	5.0 <sup>✓</sup>	3.5	0.7	5.1	5.0	✓	0.1	0.1	
26	23	13	29	3.5	2.9	0.6	4.2	3.8	✓	0.5	0.7	
27	23	14	29	4.3	3.1	1.2	4.8	4.6	✓	0.3	0.5	

Measures in red from book 11, p. 206.

10.2/10 0.87  
0.74  
on 2.1111111111111111

Sum 70.6  
3.6  
3.4

10.1/10 1.07  
1.11

7.44  
1.11  
1.11

✓ Indicates no change on remeasurement



170

AE

Copied from Book 7.

C 10211. April 17, 1897. Jup. Ec. III. Re.

	h	m	s.				✓	✓		
1	14	19	30	7.0	4.1	2.9	6.8	6.9	✓	0.4 0.2
2	14	20	30	5.9	4.1	1.8	5.7	5.8	✓	0.4 0.2
3	14	21	30	<sup>5.2</sup> 4.5	3.8	<sup>1.4</sup> 0.7	5.3	5.2	✓	0.1 0.1
4	14	22	30	4.3	3.1	1.2	5.1	4.7	✓	0.6 0.8
5	14	23	30	3.2	3.0	0.2	4.1	3.6	✓	0.7 0.9
6	14	24	30	2.9	3.2	0.3	3.6	3.2	✓	0.5 0.7
7	14	25	30	3.3	4.1	0.8	3.1	3.2	✓	0.4 0.2
8	14	26	30	2.9	4.1	1.2	2.7	2.8	✓	0.4 0.2
9	14	27	30	2.1	3.9	1.8	2.1	2.1	✓	0.2 0.0
10	14	28	30	2.2	3.5	1.3	2.6	2.4	✓	0.2 0.4
11	14	29	30	2.5	3.7	1.2	2.7	2.6	✓	0.0 0.2
12	14	30	30	2.1	<sup>4.2</sup> 3.5	<sup>2.1</sup> 1.1	1.8	2.0	✓	0.2 0.3
13	14	31	30	2.3	4.3	2.0	1.9	2.1	✓	0.6 0.4
14	14	32	30	3.7	4.1	0.4	3.5	3.6	✓	0.4 0.2
15	14	33	30	<sup>3.9</sup> 3.1	<sup>4.9</sup> 3.5	<sup>1.0</sup> 0.4	2.9	3.4	✓	0.2 1.0
16	14	34	30	<sup>4.0</sup> 3.5	<sup>5.0</sup> 4.5	<sup>1.0</sup> 0.5	2.9	3.4	✓	1.3 1.1
17	14	35	30	2.1	<sup>4.5</sup> 2.7	<sup>2.4</sup> 0.8	1.5	1.8	✓	0.8 0.6
18	14	36	30	2.4	3.1	0.7	3.2	2.8	✓	0.6 0.8
19	14	37	30							
20	14	38	30							
21	14	39	30							
22	14	40	30							
23	14	41	30							
24	14	42	30							
25	14	43	30							

(18)  
Sum 70.7  
67.0  
3.9  
3.7

70.7  
59.7  
167  
162

Measures in red from book 11, p. 206.  
✓ indicates no change on remeasurement.



Copied from Book 7.

171

AE

C 10888. Jan. 9, 1898

Jup. Ec. TV. Reap.

	h	m	s				v	v		
9	22	42	34	9.0	4.9	4.1	9.5	9.2 <sup>v</sup>	0.4	0.5
10	22	43	34	9.0	4.9	4.1	9.5	9.2 <sup>v</sup>	0.4	0.5
11	22	44	34	8.5 <sup>v</sup> 6.1	5.5 <sup>v</sup> 5.5	3.0 0.6	8.4	8.4 <sup>v</sup>	0.2	0.1
12	22	45	34	8.0 <sup>v</sup> 7.2	5.8 <sup>v</sup> 5.1	2.2 2.1	7.6	7.8 <sup>v</sup>	0.2	0.4
13	22	46	34	8.0 <sup>v</sup> 6.4	5.9 <sup>v</sup> 5.9	2.1 0.5	7.5	7.8 <sup>v</sup>	0.6	0.5
14	22	47	34	7.2	5.5	1.7	7.1	7.2 <sup>v</sup>	0.2	0.1
15	22	48	34	6.9	5.2	1.7	7.1	7.0 <sup>v</sup>	0.1	0.2
16	22	49	34	6.5	5.2	1.3	6.7	6.6 <sup>v</sup>	0.1	0.2
17	22	50	34	7.0 <sup>v</sup>	5.1	1.9	7.3	7.2 <sup>v</sup>	0.2	0.3
18	22	51	34	7.1 <sup>v</sup> 5.9	5.2	1.9 0.7	7.3	7.2 <sup>v</sup>	0.1	0.2
19	22	52	34	6.5	5.6	0.9	6.3	6.4 <sup>v</sup>	0.3	0.2
20	22	53	34	6.6	5.7	0.9	6.3	6.4 <sup>v</sup>	0.4	0.3
21	22	54	34	6.1	5.2 <sup>5.9</sup>	0.9 <sup>0.2</sup>	5.6	5.8 <sup>v</sup>	0.5	0.5
22	22	55	34	6.5	5.9 <sup>v</sup>	0.6	6.0	6.2 <sup>v</sup>	0.6	0.5
23	22	56	34	6.1	5.3	0.8	6.2	6.2 <sup>v</sup>	0.0	0.1
24	22	57	34	6.5	5.2	1.3	6.7	6.6 <sup>v</sup>	0.1	0.2
25	22	58	34	7.2 <sup>v</sup>	5.5	1.7	7.1	7.2 <sup>v</sup>	0.2	0.1
26	22	59	34	5.8	5.2	0.6	6.0	5.9 <sup>v</sup>	0.1	0.2
27	23	00	34	5.8	5.4	0.4	5.8	5.8 <sup>v</sup>	0.1	0.0
28	23	01	34	6.0 <sup>v</sup> 6.5	5.9 <sup>v</sup> 5.9	0.1 0.6	5.5	5.8 <sup>v</sup>	0.6	0.5
29	23	02	34	5.5 <sup>v</sup>	5.1 <sup>v</sup>	0.4	5.8	5.6 <sup>v</sup>	0.2	0.3
30	23	03	34	6.2 <sup>v</sup>	5.5	0.7	6.1	6.2 <sup>v</sup>	0.2	0.1
31	23	04	34	5.4 <sup>v</sup>	5.1	0.3	5.7	5.6 <sup>v</sup>	0.2	0.3
32	23	05	34	5.9	5.2	0.7	6.1	6.0 <sup>v</sup>	0.1	0.2
33	23	06	34	5.1	4.8	0.3	5.7	5.4 <sup>v</sup>	0.5	0.6
				Sum	133.1	5.3				

Measures in red from book 11, p. 206  
 v indicates no change on remeasurement



172

AE

Copied from Book 7

C 11015 Feb. 26, 1898.

Jup. Ec. III. Dis.

	<i>h</i>	<i>m</i>	<i>s</i>				<i>✓</i>	<i>✓</i>		
16	17	38	28	4.8	4.9	0.1	4.7	4.8 ✓	0.3	0.1
17	17	39	28	3.9	<sup>5.1</sup> 3.6	<sup>1.2</sup> 0.3	3.6	3.8 ✓	1.0	0.3
18	17	40	28	3.9	4.0	0.1	4.7	4.3 ✓	0.6	0.8
19	17	41	28	4.1	4.2	0.1	4.7	4.4 ✓	0.4	0.6
20	17	42	28	<sup>4.4</sup> 5.3	4.3	1.0	4.9	4.6 ✓	0.3	0.5
21	17	43	28	4.1	5.0 ✓	0.9	3.9	4.0 ✓	0.4	0.2
22	17	44	28	4.3	<sup>5.1</sup> 3.6	<sup>0.8</sup> 0.7	4.0	4.2 ✓	1.0	0.3
23	17	45	28	4.8	4.9	0.1	4.7	4.8 ✓	0.3	0.1
24	17	46	28	4.9	5.1	0.2	4.6	4.8 ✓	0.5	0.3
25	17	47	28	4.1 ✓	5.0	0.9	3.9	4.0 ✓ <sup>4.4</sup>	0.4	0.2
26	17	48	28	4.5	4.8	0.3	4.5	4.5 ✓	0.2	0.0
27	17	49	28	4.8	<sup>4.9</sup> 4.3	<sup>0.1</sup> 0.5	4.7	4.8 ✓	0.3	0.1
28	17	50	28	4.2	5.0	0.8	4.9	5.0 ✓	0.4	0.2
29	17	51	28	4.6	4.9	0.3	4.5	4.6 ✓	0.3	0.1
30	17	52	28	4.7	5.2 ✓	0.5	4.3	4.5 ✓	0.6	0.4
31	17	53	28	4.2	4.5 ✓	<sup>0.3</sup> 0.3	5.1	5.0 ✓	0.1	0.3
32	17	54	28	4.9	5.1 ✓	0.2	4.6	4.8 ✓	0.5	0.3
33	17	55	28	5.2	4.6	0.6	5.4	5.3 ✓	0.0	0.3
34	17	56	28	5.2	4.3	0.9	5.7	5.4 ✓	0.3	0.5
35	17	57	28	5.5	5.2	0.3	5.1	5.3 ✓	0.6	0.4
36	17	58	28	5.7	5.1	0.6	5.4	5.6 ✓	0.5	0.3
37	17	59	28	5.8	4.8	1.0	5.8	5.8 ✓	0.2	0.0
38	18	00	28	6.1	4.4	1.7	6.5	6.3 ✓	0.2	0.4
39	18	01	28	6.2	4.2	2.0	6.8	6.5 ✓	0.4	0.6
40	18	02	28	8.0	5.1	2.9	7.7	7.8 ✓	0.5	0.3

Measurements in red from book 11, p. 207

11970 ✓  
 Sum, 1161 ✓  
 4.8 ✓  
 4.6

Indicates no change on remeasurement



Copied from Book 7.

173

aE

C 11055

March 5, 1898.

Jup. Ec. III. Dis.

	<i>h</i>	<i>m</i>	<i>s</i>				<i>✓</i>	<i>✓</i>			
11	21	37	27	3.1	4.2	1.1	<sup>3</sup> 3.2	3.2 ✓	0.0	<u>0.1</u>	<u>2</u>
12	21	38	27	<sup>2.6</sup> <del>3.0</del>	<sup>0</sup> 4.8	<sup>4</sup> 1.8	<sup>3.0</sup> <del>2.9</del>	2.8 ✓	0.2	<u>0.3</u>	<u>4</u>
13	21	39	27	<sup>2</sup> <del>2.9</del>	3.7	0.8	<sup>6</sup> 3.5	3.2 ✓	0.5	<u>0.6</u>	<u>7</u>
14	21	40	27	3.9 ✓	4.1	0.2	<sup>2</sup> 4.1	4.0 ✓	0.1	<u>0.2</u>	<u>3</u>
15	21	41	27	3.9	4.1	0.2	<sup>2</sup> 4.1	4.0 ✓	0.1	<u>0.2</u>	<u>2</u>
16	21	42	27	3.1	5.0 ✓	1.9	<sup>5</sup> 2.1	2.8 ✓	0.8	<u>0.7</u>	<u>6</u>
17	21	43	27	3.0	4.8	1.8	<sup>6</sup> 2.5	2.8 ✓	0.6	<u>0.5</u>	<u>4</u>
18	21	44	27	4.1 ✓	4.9	0.8	<sup>6</sup> 3.5	3.8 ✓	0.7	<u>0.6</u>	<u>5</u>
19	21	45	27	3.4	4.5	1.1	<sup>3</sup> 3.1	3.1 ✓	0.3	<u>0.2</u>	<u>1</u>
20	21	46	27	3.4	4.1	0.7	<sup>7</sup> 3.1	3.5 ✓	0.1	<u>0.2</u>	<u>3</u>
21	21	47	27	3.2	<sup>4.7</sup> 4.1	<sup>1.5</sup> 0.9	<sup>9</sup> 2.8	3.0 ✓	0.1	<u>0.4</u>	<u>3</u>
22	21	48	27	3.2	<sup>4.4</sup> 3.0	0.2	<sup>1.2</sup> 3.1	3.2 ✓	0.2	<u>0.1</u>	<u>0</u>
23	21	49	27	3.5	5.1 ✓	1.6	<sup>6</sup> 2.1	3.1 ✓	0.9	<u>0.8</u>	<u>7</u>
24	21	50	27	4.2	4.4	0.2	<sup>2</sup> 4.1	4.2 ✓	0.2	<u>0.1</u>	<u>0</u>
25	21	51	27	4.0	4.1	0.1	<sup>3</sup> 4.1	4.1 ✓	0.1	<u>0.2</u>	<u>3</u>
26	21	52	27	4.5	4.8	0.3	<sup>1</sup> 4.1	4.2 ✓	0.6	<u>0.5</u>	<u>4</u>
27	21	53	27	4.2 ✓	4.8	0.6	<sup>6</sup> 3.1	3.8 ✓	0.6	<u>0.5</u>	<u>4</u>
28	21	54	27	4.9 ✓	4.6	0.3	<sup>7</sup> 4.1	4.8 ✓	0.4	<u>0.3</u>	<u>2</u>
29	21	55	27	<sup>5.1</sup> 4.5	4.2	<sup>0.3</sup> 0.9	<sup>3</sup> 5.1	5.2 ✓	0.0	<u>0.1</u>	<u>2</u>
30	21	56	27	5.2 ✓	4.2	1.0	<sup>4</sup> 5.1	5.1 ✓	0.0	<u>0.1</u>	<u>2</u>
31	21	57	27	<sup>5.9</sup> 4.2	4.5	0.3	<sup>5.6</sup> 4.0	4.8 ✓	0.3	<u>0.2</u>	<u>3</u>
32	21	58	27	6.1 ✓	4.6	1.5	<sup>4</sup> 5.1	6.0 ✓	0.4	<u>0.3</u>	<u>2</u>
33	21	59	27	6.2	4.8	1.4	<sup>6</sup> 5.1	6.0 ✓	0.6	<u>0.5</u>	<u>4</u>
34	22	00	27	7.4	4.5	2.9	<sup>3</sup> 7.2	7.3 ✓	0.3	<u>0.2</u>	<u>1</u>
35	22	01	27	9.0	4.1	4.9	<sup>3</sup> 9.1	9.1 ✓	0.1	<u>0.2</u>	<u>3</u>
Sum				108.2	106.2	4.3	111.2	112.1			
				4.2			112	112			

Measurements in red from book 11, p. 207

✓ indicates no change on remeasurement



174

aE

Copied from Book 7

C 11825

March 20, 1899.

Jup. Ec. III. Dia.

	<i>h</i>	<i>m</i>	<i>s</i>								
8											
9											
10											
11	16	33	22	2.2	3.0	0.8	3.0	2.6 ✓	0.7	0.8	
12	16	34	22	3.5	3.1	0.4	4.2	3.8 ✓	0.6	0.7	
13	16	35	22	2.5 ✓	2.9	0.4	2.9	2.7 ✓	0.8	0.4	
14	16	36	22	4.0	4.1	0.1	2.9	3.0 ✓	0.4	0.3	
15	16	37	22	3.5	4.3	0.8	3.0	3.2 ✓	0.6	0.5	
16	16	38	22	3.4	3.6	0.2	3.6	3.5 ✓	0.1	0.2	
17	16	39	22	4.5 ✓	3.5	1.0	4.8	4.6 ✓	0.2	0.3	
18	16	40	22	4.0	3.5	0.5	4.3	4.2 ✓	0.2	0.3	
19	16	41	22	4.2	3.9 ✓	0.3	4.1	4.2 ✓	0.2	0.1	
20	16	42	22	3.5	3.3	0.2	5.2	5.0 ✓	0.6	0.5	
21	16	43	22	7.5	3.2	4.3	5.5	5.2 ✓	0.5	0.6	
22	16	44	22	5.1 ✓	3.9	1.2	5.0	5.0 ✓	0.2	0.1	
23	16	45	22	5.1	3.9	1.2	5.0	5.0 ✓	0.2	0.1	
24	16	46	22	5.0	4.1 ✓	0.9	4.7	4.8 ✓	0.4	0.3	
25	16	47	22	5.1	3.1 ✓	1.0	5.8	5.8 ✓	0.6	0.7	
26	16	48	22	5.1	4.3 ✓	0.8	4.6	4.8 ✓	0.6	0.5	
27	16	49	22	5.3	3.2	2.1	5.0	5.2 ✓	0.5	0.3	
28	16	50	22	5.9	4.0	1.9	5.7	5.8 ✓	0.3	0.2	
29	16	51	22	6.0	4.1	2.9	6.8	7.0 ✓	0.4	0.3	
30	16	52	22	7.4	3.8	3.6	6.9	7.2 ✓	0.1	0.5	
31	16	53	22	7.5	4.9	2.6	7.4	7.4 ✓	1.2	0.1	
32	16	54	22	4.3	3.9	0.4	8.5	8.6 ✓	0.2	0.1	
				Sum, 81.6 ✓							
				3.7							

Measurements in red from book 11, pp. 207 and 208

✓ Indicates no change on remeasurement



Copied from Book 7.

175

AE

C 12045

July 20, 1899.

Jup. Ec. III. Reap.

	<i>h</i>	<i>m</i>	<i>s</i>				✓	<i>Value</i>		
5	13	51	27	9.0	6.5	2.5	9.1	9.0 ✓	0.5	0.1
6	13	52	27	8.0	6.6	1.4	8.0	8.0 ✓	0.6	0.0
7	13	53	27	8.2	6.3	1.9	8.5	8.4 ✓	0.3	0.3
8	13	54	27	8.0	6.2	1.8	8.4	8.2 ✓	0.2	0.4
9	13	55	27	7.0	6.0	1.0	7.6	7.3 ✓	0.0	0.6
10	13	56	27	7.2	6.2	1.0	7.6	7.4 ✓	0.2	0.4
11	13	57	27	7.5	5.7 ✓	1.8	8.4	8.0 ✓	0.7	0.9
12	13	58	27	—	6.8	—	—	—	0.2	—
13	13	59	27	6.9	6.4	0.2	6.8	6.8 ✓	0.2	0.1
14	14	00	27	6.9	6.5	0.4	7.0	7.0 ✓	0.1	0.1
15	14	01	27	6.8 ✓	6.6	0.5	6.1	6.1 ✓	0.5	0.0
16	14	02	27	6.4	6.7	0.3	6.3	6.4 ✓	0.9	0.1
17	14	03	27	5.9	6.5	0.6	6.0	6.0 ✓	0.2	0.1
18	14	04	27	5.8	6.0	0.2	6.4	6.1 ✓	0.9	0.6
19	14	05	27	5.9	6.3	0.4	6.2	6.0 ✓	0.5	0.3
20	14	06	27	5.9	6.2	0.3	6.3	6.1 ✓	1.2	0.4
21	14	07	27	6.1	6.5	0.4	6.2	6.2 ✓	1.1	0.1
22	14	08	27	6.0	6.4	0.4	6.2	6.1 ✓	0.7	0.2
23	14	09	27	5.9	6.8	0.9	5.7	5.8 ✓	0.3	0.2
24	14	10	27	6.3	6.9	0.6	6.0	6.2 ✓	0.2	0.3
25	14	11	27	6.1	7.0	0.4	5.7	5.9 ✓	0.1	0.4
26	14	12	27	5.9	7.1	1.2	5.4	5.7 ✓	0.5	0.5
27	14	13	27	5.8	6.9	1.1	5.5	5.6 ✓	0.2	0.3
28	14	14	27	5.9	6.9	1.0	5.6	5.8 ✓	0.1	0.3
29	14	15	27	7.3	8.0 ✓	0.7	5.9	6.6 ✓	0.9	1.4

24) 1575 ✓  
 Sum 4491  
 6.6 ✓  
 6.0

Measures in red from Book II, p. 208

✓ indicates no change on remeasurement



C



Group F

Copied from Book

177

18a

C 2035

July 17, 1889.

Jup. Ec. III Re.

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Dux

See p. 184 &amp; p. 185



178

T<sub>80</sub>

Copied from Book 7.

C 4214

Nov. 24, 1891.

Ec. III Mis.

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Oct.



Copied from Book 7

179

TBo

C 5041

Sept. 20, 1892.

Ec. III Mis.

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Copied from Book 7.

C 5234 Dec. 15, 1892. Ec. III Mis.

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Out



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181  
Bo

C 6377 Dec. 23, 1893. Ec III Re,

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Out



Copied from Book 7.

C 6583

Feb. 11, 1894.

Ee III Dis

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Out



Copied from Book 7.

183

Bo

C 6585 Feb. 11, 1894.

$\epsilon$  C III Re.

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Out



C 2035

Copied from Book 17

July 17, 1889.

Ee III R<sub>2</sub>

	G.	H.	J.	(1)	(2)	(3)	(4)	(5)	Residual for mean 52
1	16	34	32	7.3	5.3	2.0	7.2 <sup>✓</sup>	7.2 <sup>✓</sup>	.1
2			42	7.9	4.9	3.0	8.2 <sup>✓</sup>	8.0 <sup>✓</sup>	.3
3			52	7.6	4.8	2.8	8.0 <sup>✓</sup>	7.8 <sup>✓</sup>	.4
4		35	02	7.3	5.2	2.1	7.3 <sup>✓</sup>	7.3 <sup>✓</sup>	.0
5			12	6.8	5.1	1.7	6.9 <sup>✓</sup>	6.8 <sup>✓</sup>	.1
6			22	6.4	4.5	1.9	7.1 <sup>✓</sup>	6.8 <sup>✓</sup>	.7
7			32	6.5	5.4 <sup>✓</sup>	1.1	6.3 <sup>✓</sup>	6.4 <sup>✓</sup>	.2
8			42	5.9 <sup>✓</sup>	5.0 <sup>✓</sup>	0.9	6.1 <sup>✓</sup>	6.0 <sup>✓</sup>	.2
9			52	5.7 <sup>✓</sup>	4.8	0.9	6.1 <sup>✓</sup>	5.9 <sup>✓</sup>	.4
10		36	02	5.9	4.9	1.0	6.2 <sup>✓</sup>	6.0 <sup>✓</sup>	.3
11	16	36	12	5.7	4.8	0.9	6.1 <sup>✓</sup>	5.9 <sup>✓</sup>	.4
12			22	6.0	5.2	0.8	6.0 <sup>✓</sup>	6.0 <sup>✓</sup>	.0
13			32	5.6	4.9	0.7	5.9 <sup>✓</sup>	5.8 <sup>✓</sup>	.3
14			42	5.5	5.2	0.3	5.5 <sup>✓</sup>	5.5 <sup>✓</sup>	.0
15			52	5.9	5.4	0.5	5.7 <sup>✓</sup>	5.8 <sup>✓</sup>	.2
16		37	02	5.8	5.3	0.5	5.7 <sup>✓</sup>	5.8 <sup>✓</sup>	.1
17			12	5.6	4.9	0.7	5.9 <sup>✓</sup>	5.8 <sup>✓</sup>	.3
18			22	5.7	4.9	0.8	6.0 <sup>✓</sup>	5.8 <sup>✓</sup>	.3
19			32	5.8	5.7	0.1	5.3 <sup>✓</sup>	5.6 <sup>✓</sup>	.5
20			42	5.8	5.6	0.2	5.4 <sup>✓</sup>	5.6 <sup>✓</sup>	.4
21	16	37	52	5.6	5.5	0.1	5.3 <sup>✓</sup>	5.4 <sup>✓</sup>	.3
22		38	02	5.6	5.4	0.2	5.4 <sup>✓</sup>	5.5 <sup>✓</sup>	.2
23			12	5.2 <sup>✓</sup>	5.5	0.3	4.9 <sup>✓</sup>	5.0 <sup>✓</sup>	.3
24			22	5.8	5.5	0.3	5.5 <sup>✓</sup>	5.6 <sup>✓</sup>	.3
25	16	38	32	5.7	5.8	0.1	5.1 <sup>✓</sup>	5.4 <sup>✓</sup>	.6
Sum				12	4.5 <sup>✓</sup>	4.3 <sup>✓</sup>			
Mean				5.0	5.2 <sup>✓</sup>				

Measures in red from Bk 14, p. 23  
unchanged.



Copied from Book 7<sup>17</sup>

185

TB<sub>0</sub>

C 4214

Nov. 24, 1891.

Ec. III His.

	h	m	s							
14	14	20	20	5.6	5.4	0.2	5.8 <sup>✓</sup>	5.7'	.2	
15	14	20	30	5.9	5.6	0.3	5.9 <sup>✓</sup>	5.9'	.0	
16	14	20	40	5.8	5.5	0.3	5.9 <sup>✓</sup>	5.8'	.1	
17	14	20	50	5.9	5.5	0.4	6.0 <sup>✓</sup>	6.0'	.1	
18	14	21	00	5.9	5.8	0.1	5.7 <sup>✓</sup>	5.8'	.2	
19	14	21	10	6.1	5.6	0.5	6.1 <sup>✓</sup>	6.1'	.0	
20	14	21	20	6.4	5.6	0.8	6.4 <sup>✓</sup>	6.4'	.0	
21	14	21	30	6.2	5.3	0.9	6.5 <sup>✓</sup>	6.4'	.3	
22	14	21	40	5.9	5.4	0.5	6.1 <sup>✓</sup>	6.0'	.2	
23	14	21	50	5.9	5.1	0.8	6.4 <sup>✓</sup>	6.2'	.5	
24	14	22	00	6.3	5.8	0.5	6.1 <sup>✓</sup>	6.2'	.2	
25	14	22	10	6.9	5.8	1.1	6.7 <sup>✓</sup>	6.8'	.2	
26	14	22	20	6.7	5.4	1.3	6.9 <sup>✓</sup>	6.8'	.2	
27	14	22	30	<del>6.6</del> <sup>6.6</sup> <sup>✓</sup>	5.6	1.5 <sup>0</sup>	6.6 <sup>✓</sup>	6.6'	.0	
28	14	22	40	6.2 <sup>✓</sup>	5.5	0.7	6.3 <sup>✓</sup>	6.2'	.1	
29	14	22	50	6.9	5.4	1.5	7.1 <sup>✓</sup>	7.0'	.2	
30	14	23	00	7.4 <sup>✓</sup>	<del>4.9</del> <sup>5.6</sup>	<del>2.5</del> <sup>1.8</sup>	7.4 <sup>✓</sup>	7.4'	.0	
31	14	23	10	7.6 <sup>✓</sup>	6.4 <sup>✓</sup>	1.2	6.8 <sup>✓</sup>	7.2'	.8	
32	14	23	20							
33	14	23	30							
34	14	23	40							
35	14	23	50							
36	14	24	00	<del>9.8</del>	<del>6.7</del>	3.1				
37	14	24	10	9.0	5.6	3.4	9.0 <sup>✓</sup>	9.0'	.0	
38	14	24	20	9.2	5.6	3.6	9.2 <sup>✓</sup>	9.2'	.0	

These times probably correct tho clouds &amp; clock interfered.

Sun <sup>20</sup>11 <sup>15</sup>7.5<sup>✓</sup>  
5.6<sup>✓</sup>

Measures in red from Bk 14, p. 23



186

TB.

Copied from Book 17

C 5041				Sept. 20, 1892.				Ce. III Hlis	
h m s									
14	15	37	37	5.5	4.3	1.2	5.5 <sup>v</sup>	5.5	.0
15	15	37	47	5.5	4.1	1.4	5.7	5.6	.2
16	15	37	57	5.6	3.9	1.7	6.0	5.8	.4
17	15	38	07	5.5	3.9	1.6	5.9	5.7	.4
18	15	38	17	5.7	4.2	1.5	5.8	5.8	.1
19	15	38	27	5.8	4.2	1.6	5.9	5.8	.1
20	15	38	37	5.6	4.5	1.1	5.4	5.5	.2
21	15	38	47	5.9	3.9 <sup>v</sup>	2.0	6.3 <sup>v</sup>	6.1	.4
22	15	38	57	5.9	4.4 <sup>v</sup>	1.5	5.8	5.8	.1
23	15	39	07	6.7 <sup>v</sup>	3.9 <sup>v</sup>	2.8	7.1	6.9	.4
24	15	39	17	5.9 <sup>v</sup>	4.5 <sup>v</sup>	1.4	5.7	5.8	.2
25	15	39	27	6.6	3.9 <sup>v</sup>	2.5	6.5	6.6	.1
26	15	39	37	6.7	4.4 <sup>v</sup>	1.8	6.4	6.6	.3
27	15	39	47	6.7	3.9 <sup>v</sup>	2.8	7.1	6.9	.4
28	15	39	57	6.4	4.1	2.3	6.6	6.5	.2
29	15	40	07	6.8	4.5	2.3	6.6	6.7	.2
30	15	40	17	6.7	4.6	2.1	6.4	6.6	.3
31	15	40	27	6.8	3.8	3.0	7.3	7.0	.5
32	15	40	37	6.8	3.9	2.9	7.2	7.0	.4
33	15	40	47	7.7	4.6 <sup>v</sup>	3.4	7.8	7.8	.1
34	15	40	57	7.3	4.3	3.0	7.3	7.3	.0
35	15	41	07	7.7	4.6	3.1	7.4	7.6	.3
36	15	41	17	7.8	4.9	2.9	7.2	7.5	.6
37	15	41	27	7.8	4.6	3.2	7.5	7.6	.3
38	15	41	37						

Sum 1024<sup>2</sup>  
4.3

Measures in red from Pk 14, p. 23,  
unchanged



Copied from Book 8<sup>17</sup>

187

T<sub>80</sub>

C 5234

Dec. 15, 1892.

Ee. III. 1115.

	h	m	s						
16	16	09	04	6.1	4.9	1.2	6.1 <sup>✓</sup>	6.1	.0
17	16	09	14	5.9	4.8	1.1	6.0 <sup>✓</sup>	6.0	.1
18	16	09	24	6.1	4.8	1.3	6.2 <sup>✓</sup>	6.2	.1
19	16	09	34	5.8	4.5	1.3	6.2 <sup>✓</sup>	6.0	.4
20	16	09	44	6.1	4.9	1.2	6.1 <sup>✓</sup>	6.1	.0
21	16	09	54	5.8	4.9	0.9	5.8 <sup>✓</sup>	<u>5.8</u>	.0
22	16	10	04	6.4	4.9	1.5	6.4 <sup>✓</sup>	6.4	.0
23	16	10	14	6.2	4.9	1.3	6.2 <sup>✓</sup>	6.2	.0
24	16	10	24	6.8	4.7	2.1	7.0 <sup>✓</sup>	6.9	.2
25	16	10	34	6.7	4.9	1.8	6.7 <sup>✓</sup>	6.7	.0
26	16	10	44	6.8	5.2	1.6	6.5 <sup>✓</sup>	6.6	.3
27	16	10	54	7.4	5.3	2.1	7.0 <sup>✓</sup>	7.2	.4
28	16	11	04	6.3	4.9	1.4	6.3 <sup>✓</sup>	6.3	.0
29	16	11	14	6.7	4.9	1.8	6.7 <sup>✓</sup>	6.7	.0
30	16	11	24	6.8	4.8	2.0	6.9 <sup>✓</sup>	6.8	.1
31	16	11	34	7.2	4.9	2.3	7.2 <sup>✓</sup>	7.2	.0
32	16	11	44	7.5	4.6	2.9	7.8 <sup>✓</sup>	7.6	.3
33	16	11	54	7.6	4.7	2.9	7.8 <sup>✓</sup>	7.7	.2
34	16	12	04	7.8	5.1	2.7	7.6 <sup>✓</sup>	7.7	.2
35	16	12	14	7.3	4.5	2.8	7.7 <sup>✓</sup>	7.5	.4
36	16	12	24	7.8	4.9	2.9	7.8 <sup>✓</sup>	7.8	.0
37	16	12	34	8.2	5.3	2.9	7.8 <sup>✓</sup>	8.0	.4
38	16	12	44	8.0	4.9	3.1	8.0 <sup>✓</sup>	8.0	.0
39	16	12	54	8.9	5.5	3.4	7.9 <sup>✓</sup>	7.6	.6
40	16	13	04	8.8	5.2	3.6			

Sum 122.9<sup>✓✓</sup>4.9<sup>✓✓</sup>

Measured in red from Book 14, p. 23  
 ✓ unchanged.



Copied from Book 7

C 6377

Dec. 23, 1893.

Ed. III Re.

	<i>h</i>	<i>m</i>	<i>s</i>				<i>✓</i>	
3	10	49	09	5.9	1.8	4.1	6.8 <sup>3</sup>	6.8 <sup>1</sup>
4	10	49	19	5.7 <sup>6.4</sup>	1.4	4.3 <sup>5.0</sup>	7.1 <sup>2</sup>	6.8
5	10	49	29	4.5 <sup>5.7</sup>	1.8	2.7 <sup>3.9</sup>	6.0 <sup>1</sup>	5.8 <sup>9</sup>
6	10	49	39	5.2 <sup>✓</sup>	1.9	3.3	5.8 <sup>5</sup>	5.8 <sup>4</sup>
7	10	49	49	4.7	1.4	3.3	5.8 <sup>5</sup>	5.0
8	10	49	59	5.1 <sup>✓</sup>	1.7	3.4	5.8 <sup>6</sup>	5.8 <sup>4</sup>
9	10	50	09	3.7 <sup>4.6</sup>	1.5	2.2 <sup>3.1</sup>	5.8 <sup>3</sup>	5.0 <sup>4</sup>
10	10	50	19	4.0	1.8	2.2	4.8 <sup>4</sup>	4.2
11	10	50	29	4.2 <sup>2.2</sup>	1.7	2.5 <sup>0</sup>	4.8 <sup>2</sup>	4.2
12	10	50	39	5.2	3.0	2.2	4.8 <sup>4</sup>	4.2
13	10	50	49	5.4	3.3	2.1	4.8 <sup>3</sup>	4.5
14	10	50	59	4.8	2.4	2.4	4.8 <sup>6</sup>	4.8 <sup>7</sup>
15	10	51	09	4.5	2.1	2.4	4.8 <sup>6</sup>	4.5 <sup>6</sup>
16	10	51	19	4.7	2.5	2.2	4.8 <sup>4</sup>	4.5 <sup>6</sup>
17	10	51	29	4.3	2.0	2.3	4.8 <sup>5</sup>	4.4 <sup>3</sup>
18	10	51	39	4.1 <sup>✓</sup>	1.8	2.3	4.8 <sup>5</sup>	4.2
19	10	51	49	3.4 <sup>✓</sup>	2.1	1.3	3.8 <sup>5</sup>	3.4
20	10	51	59	4.5 <sup>✓</sup>	2.6	1.9	4.0 <sup>1</sup>	4.2 <sup>3</sup>
21	10	52	09	4.1	2.4	1.7	3.8 <sup>9</sup>	4.0
22	10	52	19	4.2	2.1	2.1	4.8 <sup>3</sup>	4.2
23	10	52	29	3.4 <sup>✓</sup>	1.9	1.5	3.8 <sup>7</sup>	3.5 <sup>6</sup>
24	10	52	39	5.4 <sup>4.6</sup>	2.8 <sup>0</sup>	3.8 <sup>2.6</sup>	4.7 <sup>8</sup>	4.8 <sup>7</sup>
25	10	52	49	3.4 <sup>✓</sup>	1.8 <sup>2.3</sup>	1.6 <sup>1.1</sup>	3.8 <sup>3</sup>	3.3 <sup>4</sup>
26	10	52	59	3.6	2.6	1.0	3.8 <sup>2</sup>	3.4 <sup>4</sup>
27	10	53	09	4.3	3.4	0.9	3.8 <sup>1</sup>	3.8 <sup>7</sup>
28	+			Sum 58.0 <sup>4</sup>				
				2.8 <sup>2</sup>				

Measure in red from Book 14, p. 23.  
 ✓ unchanged.



Copied from Book 7 17

189

180

C 6583

Feb. 11, 1894.

Ee. III. Plis.

16	13	22	55	5.6	4.7	0.9	5.2	5.4		.4	
17	13	23	05	4.9 <sup>✓</sup>	4.0 <sup>✓</sup>	0.9	5.2	5.0		.3	
18			15	5.8	4.8	1.0	5.3	5.6	3 50	.5	
19			25	5.9	4.8	1.1	5.4	5.6		.5	
20			35	5.6	4.4	1.2	5.5	5.6		.1	
21			45	5.8	4.5	1.3	5.6	5.7		.2	
22			55	5.9	4.6	1.3	5.6	5.8		.3	
23	13	24	05	5.9	4.5	1.4	5.7	5.8		.2	
24			15	5.1	4.1	1.0	5.3	5.2		.2	
25			25	6.0 <sup>✓</sup>	4.6	1.4	5.7	5.8		.3	
26			35	5.8	4.6	1.2	5.5	5.6		.3	
27			45	5.9	3.8	2.1	6.4	6.2		.5	
28			55	5.9	4.2	1.7	6.0	6.0		.1	
29	13	25	05	6.1	4.2	1.9	6.2	6.2		.1	
30			15	6.3	4.5 <sup>4.0</sup>	1.8 <sup>2.3</sup>	6.6	6.4		.3	
31			25	5.9 <sup>✓</sup>	3.4	2.5	6.8	6.4		.9	
32			35	6.7	3.7	3.0	7.3	7.0		.6	
33			45	6.8	4.3	2.5	6.8	6.8		.0	
34			55	6.9	4.5	2.4	6.7	6.8		.2	
35	13	26	05	7.1	4.5	2.6	6.9	7.0		.2	
36			15	6.9	4.1	2.8	7.1	7.0		.2	
37			25	6.9	3.9	3.0	7.3	7.1		.4	
38			35	7.4	3.9	3.5	7.8	7.6		.4	
39			45	7.4	4.4	3.0	7.3	7.4		.1	
40	13	26	55	7.4	4.4	3.0	7.3	7.4		.1	
Sum 10				7.4 <sup>✓</sup>	4.3 <sup>✓</sup>						

Measurements in red from Book 14, p. 23.  
 ✓ unchanged.



Copied from Book 7. 17

C 6585

Feb. 11, 1894.

Ec III R<sub>2</sub>

1	15 07	05	5.5	2.4	3.1	5.8	5.6	.3
2		15	5.9	1.3	4.6	7.3	6.6	.14
3		25	5.6	2.6	3.0	5.7	5.6	.1
4		35	4.4	1.7	2.7	6.3	5.8	.10
5		45	5.7	2.4	3.3	6.0	5.8	.3
6		55	5.4	2.7	2.7	5.4	5.4	.0
7	15 08	05	5.7	3.3	2.4	5.1	5.4	.6
8		15	4.9	1.7	3.2	5.9	5.4	.10
9		25	3.7	2.4	1.3	4.0	3.8	.3
10		35	4.2	2.6	1.6	4.3	4.2	.1
11		45	3.9	2.8	1.1	3.8	3.8	.1
12		55	3.2	2.6	0.6	3.3	3.2	.1
13	15 09	05	4.1	2.4	1.7	4.4	4.2	.3
14		15	3.2	2.1	1.1	3.8	3.5	.6
15		25	2.8	1.9	0.9	3.6	3.2	.8
16		35	3.9	2.3	1.6	4.3	4.1	.4
17		45	4.3	2.9	1.6	4.1	4.2	.2
18		55	3.7	2.8	0.9	3.6	3.6	.1
19	15 10	05	4.4	3.3	1.1	3.8	4.1	.6
20		15	3.7	2.7	1.0	3.7	3.7	.0
21		25	4.4	3.5	0.9	3.6	4.0	.8
22		35	4.4	3.8	0.6	3.3	3.8	.11
23		45	4.4	3.7	0.7	3.4	3.9	.10
24		55	4.0	3.8	0.2	2.9	3.4	.11
25	15 11	05	3.9	3.7	0.2	2.9	3.4	.10

Sum 67.4  
Mean 2.7

Measurements in red from Bk 14, p. 24.  
unchanged



Copied from Book 7.17

191  
180

C 6657 Mar. 26, 1894. Ec. III. 1115.

	h	m	s							
14	13	29	06	6.2	5.2	1.0	6.3	6.2		.1
15	13	29	16	6.3 <sup>v</sup>	5.0	1.3	6.5 <sup>b</sup>	6.4		.3
16	13	29	26	6.8 <sup>v</sup>	5.4 <sup>v</sup>	1.4	6.7	6.8		.1
17	13	29	36	6.9	5.3	1.6	6.9	6.9		.0
18	13	29	46	6.8	5.4	1.4	6.7	6.8		.1
19	13	29	56	6.7	5.3	1.4	6.7	6.7		.0
20	13	30	06	6.8	4.9	1.9	7.2	7.0		.4
21	13	30	16	6.9	4.8	2.1	7.4	7.2		.5
22	13	30	26	7.3	5.5 <sup>v</sup>	1.8	7.1	7.2		.2
23	13	30	36	7.0	5.1	1.9	7.2	7.1		.2
24	13	30	46	7.1	5.6	1.5	6.8	7.0		.3
25	13	30	56	6.9	5.2	1.7	7.0	7.0		.1
26	13	31	06	7.2	5.5	1.7	7.0	7.1		.2
27	13	31	16	7.7	5.5	2.2	7.5	7.6		.2
28	13	31	26	7.6	5.6	2.0	7.3	7.4		.3
29	13	31	36	7.7	5.5	2.2	7.5	7.6		.2
30	13	31	46	7.9	5.4	2.5	7.8	7.8		.1
31	13	31	56	7.9	5.6	2.3	7.6	7.8		.3
32	13	32	06	7.9	5.6	2.3	7.6	7.8		.3
33	13	32	16	7.9	5.2	2.7	8.0	8.0		.1
34	13	32	26	7.8	5.4	2.4	7.7	7.8		.1
35	13	32	36	8.1	5.3	2.8	8.1	8.1		.0
36	13	32	46	8.4	5.1 <sup>v</sup>	3.5 <sup>3</sup>	8.8 <sup>b</sup>	8.8 <sup>5</sup>		.2
37	13	32	56	8.7	4.9 <sup>v</sup>	3.8	9.1	8.9		.4
38	13	33	06	8.8	5.6	3.2	8.5	8.6		.3

Sum 130.4<sup>24</sup>5.2<sup>3</sup>

measured from Bk 14, p. 24.  
unchanged



1 Copied from Book 8.17

C 7132				Oct. 17, 1894			Ec. I Mis.		
	h	m	s				✓	✓	
5	15	27	06	5.3	5.2	0.1	4.6	5.0	.7
6	15	27	16	4.8 ✓	4.9	0.1	4.4	4.6	.4
7	15	27	26	5.3 ✓	5.4	0.1	4.4	4.8	.9
8	15	27	36	4.3	4.4	0.1	4.4	4.4	.1
9	15	27	46	4.2	4.4	0.2	4.3	4.2	.1
10	15	27	56	4.8 ✓	4.2	0.6	5.1	5.0	.3
				4.9 ✓		1.0			
11	15	28	06	3.7	3.9	0.2	5.5	5.2	.6
12	15	28	16	5.0 ✓	4.4	0.6	5.1	5.0	.1
13	15	28	26	5.3	4.7	0.6	5.1	5.2	.2
					4.9	0.8			
14	15	28	36	5.7 ✓	5.4	0.3	5.3	5.5	.4
				5.4 ✓	4.5	0.9			
15	15	28	46	4.8	3.7	1.1	5.4	5.4	.0
16	15	28	56	5.8 ✓	4.8	1.0	5.5	5.6	.3
					4.6	0.8			
17	15	29	06	5.4	3.8	1.6	5.3	5.4	.1
18	15	29	16	4.9	4.0	0.9	5.4	5.2	.5
19	15	29	26	4.8	3.7	1.1	5.6	5.2	.8
20	15	29	36	6.2 ✓	4.1	2.1	6.4	6.2	.4
				6.5 ✓		2.2			
21	15	29	46	4.7	4.3	0.4	6.7	6.6	.2
22	15	29	56	6.3 ✓	4.3	2.0	6.5	6.4	.2
				6.7 ✓	4.2				
23	15	30	06	5.9	3.4	2.5	7.0	6.8	.3
24	15	30	16	8.8 ✓	5.8	3.0	7.5	8.2	.13
				8.0 ✓	4.7	3			
25	15	30	26	7.3	3.8	3.5	7.8	7.9	.2
26	15	30	36	9.2 ✓	3.9	5.3	9.8	9.5	.6
27	15	30	46	9.5	3.9	5.6	10.1	9.8	.6
28	15	30	56						
29	15	31	06						

27) 103.2 ✓  
Sum 100.4 ✓  
4.4

measured from BK 14, p. 24  
✓ unchanged.



Copied from Book 7.17

193

180

C 7152 Oct. 27, 1894.

Ec. ~~III~~ Re.

3	15	40	24	8.9	4.9	4.03	8.9	8.9	.0
4		40	34	9.2	4.9	3.8	9.4	9.3	.0
5		40	44	8.1	4.8	3.3	8.2	8.2	.1
6		40	54	8.3	4.9	3.4	8.3	8.3	.0
7	15	41	04	7.7	4.9	2.8	7.7	7.7	.0
8		41	14	7.9	4.5	3.4	8.3	8.1	.4
9		41	24	7.9	5.0	2.9	7.8	7.8	.1
10		41	34	7.9	4.9	3.0	7.9	7.9	.0
11		41	44	7.8	4.8	3.0	7.9	7.8	.1
12		41	54	7.2	4.9	2.3	7.2	7.2	.0
13	15	42	04	7.1	4.7	2.4	7.3	7.2	.2
14		42	14	6.9	4.9	2.0	6.9	6.9	.0
15		42	24	6.9	5.1	1.8	6.7	6.8	.2
16		42	34	6.8	5.2	1.6	6.5	6.6	.3
17		42	44	6.6	4.8	1.8	6.7	6.6	.1
18		42	54	6.7	4.9	1.8	6.7	6.7	.0
19	15	43	04	6.3	4.8	1.5	6.4	6.4	.1
20		43	14	6.3	4.9	1.4	6.3	6.3	.0
21		43	24	6.3	4.8	1.5	6.4	6.4	.1
22		43	34	6.4	4.9	1.5	6.4	6.4	.0
23		43	44	5.9	5.0	0.9	5.8	5.8	.1
24		43	54	6.0	5.6	0.4	5.3	5.6	.7
25	15	44	04	5.9	5.1	0.8	5.7	5.8	.2
26		44	14	5.5	4.7	0.4	5.7	5.6	.2
27	15	44	24	5.8	5.3	0.5	5.4	5.6	.4

Sum 123.2  
4.9

Measure in red from Bk 14, p. 24.  
unchanged.



Copied from Book 17

C 7421

Jan. 14, 1895.

Ec. III Re.

				5.5	2.2	3.3	✓	✓	
11	11	47	09	6.0	4.2	1.8	7.0	6.2	.15
12	11	47	19	5.5	3.9	1.6	5.3	5.4	.2
13	11	47	29	6.0	4.2	1.8	4.8	5.4	.12
14	11	47	39	5.8	3.6	2.2	5.9	5.8	.1
15	11	47	49	5.8	3.6	2.2	5.9	5.8	.1
16	11	47	59	5.7	4.2	1.5	5.2	5.4	.5
17	11	48	09	5.3	3.7	1.6	5.3	5.3	.0
18	11	48	19	5.4	3.7	1.7	5.4	5.4	.0
19	11	48	29	5.2	3.7	1.5	5.2	5.2	.0
20	11	48	39	5.1	3.9	1.2	4.9	5.0	.2
21	11	48	49	4.7	3.4	1.3	5.0	4.8	.3
22	11	48	59	4.7	3.5	1.2	4.9	4.8	.2
23	11	49	09	4.4	4.1	0.3	4.0	4.2	.4
24	11	49	19	4.8	3.5	1.3	5.0	4.9	.2
25	11	49	29	4.4	3.4	1.0	4.7	4.6	.3
26	11	49	39	4.6	4.2	0.4	4.1	4.4	.5
27	11	49	49	4.5	3.6	0.9	4.6	4.6	.1
28	11	49	59	4.3	3.6	0.7	4.4	4.4	.1
29	11	50	09	4.1	3.6	0.5	4.2	4.2	.1
30	11	50	19	4.7	4.4	0.3	4.0	4.4	.7
31	11	50	29	4.4	4.2	0.2	3.9	4.2	.5
32	11	50	39	4.2	3.7	0.5	4.2	4.2	.0
33	11	50	49	3.9	3.7	0.2	3.9	3.9	.0
34	11	50	59	3.7	3.4	0.3	4.0	3.8	.3
35	11	51	09	3.9	3.6	0.3	4.0	4.0	.1
	11	51	19	3.7	3.7				

937  
2182

measure in red from Bk 14, p. 25  
 unchanged It is barely possible that the above  
 times are slightly in error.



Copied from Book 7.17

195

180

C 7545				Feb. 19, 1895.			Ce. IV Alis		
	$h$	$m$	$s$			$\checkmark$	$\checkmark$		
16	13	21	57	8.1	7.0	1.1	8.1	8.1	.0
17	13	22	07	7.6	6.7	0.9	7.9	7.8	.3
18	13	22	17	7.9	6.9	1.0	8.0	8.0	.1
19	13	22	27	7.8	7.1	0.7	7.7	7.8	.1
20	13	22	37	7.9	6.9	1.0	8.0	8.0	.1
21	13	22	47	7.9	6.7	1.2	8.2	8.0	.3
22	13	22	57	8.0	6.9	1.1	8.1	8.0	.1
23	13	23	07	7.9	6.8	1.1	8.1	8.0	.2
24	13	23	17	7.9	6.9	1.0	8.0	8.0	.1
25	13	23	27	7.7	6.9	0.8	7.8	7.8	.1
26	13	23	37	7.8	7.0	0.8	7.8	7.8	.0
27	13	23	47	7.9 <sup>7.9</sup>	7.1 <sup>7.8</sup>	1.3 <sup>0.8</sup>	7.8	7.8	.1
28	13	23	57	7.8	7.3	0.5	7.5	7.6	.3
29	13	24	07	8.6	7.3	1.3	8.3	8.4	.3
30	13	24	17	7.9	7.1	0.8	7.8	7.8	.1
31	13	24	27	7.9	6.9	1.0	8.0	8.0	.1
32	13	24	37	7.9	6.8	1.1	8.1	8.0	.2
33	13	24	47	8.0	6.9	1.1	8.1	8.0	.1
34	13	24	57	7.9	6.9	1.0	8.0	8.0	.1
35	13	25	07	7.7	6.8	0.9	7.9	7.8	.2
36	13	25	17	7.7	6.7	1.0	8.0	7.8	.3
37	13	25	27	7.4	6.8	0.6	7.6	7.5	.2
38	13	25	37	7.8	7.4	0.4	7.4	7.6	.4
39	13	25	47	7.8 <sup>7.8</sup>	7.3 <sup>7.3</sup>	1.3 <sup>0.5</sup>	8.1 <sup>7.5</sup>	8.2 <sup>7.6</sup>	.3
40	13	25	57	7.9	7.1	0.8	7.8	7.8	.1

1742  
1251742<sup>✓</sup>  
7.0<sup>✓</sup>

measures in red from Bk 14, p. 25,  
 ✓ true changed



196

TB.

Copied from Book 7.9

C 7581			Feb. 26, 1895.			Ce. III Re.		
	h	m s				✓	✓	
1	11	54 53	7.5	3.6	3.9	8.6	8.0	.11
2	11	55 03						
3	11	55 13						
4	11	55 23	7.6	4.4	3.2	7.9	7.8	.3
5	11	55 33	7.1	4.9	2.2	6.9	7.0	.2
6	11	55 43	6.6	4.5	2.1	6.8	6.7	.2
7	11	55 53	6.8	4.7	2.1	6.8	6.8	.0
8	11	56 03	6.7	4.8	1.9	6.6	6.6	.1
9	11	56 13	6.6	4.9	1.7	6.4	6.5	.2
10	11	56 23	5.9	5.0	0.9	5.6	5.8	.3
11	11	56 33	5.7	4.5	1.2	5.9	5.8	.2
12	11	56 43	5.8	4.9	0.9	5.6	5.7	.2
13	11	56 53	5.2	4.4	0.8	5.5	5.4	.3
14	11	57 03	5.1	4.7	0.4	5.1	5.1	.0
15	11	57 13	5.2	4.8	0.4	5.1	5.2	.1
16	11	57 23	5.4	4.8	0.6	5.3	5.4	.1
17	11	57 33	5.1	4.8	0.3	5.0	5.0	.1
18	11	57 43	4.5	4.6	0.1	4.6	4.6	.1
19	11	57 53	4.8	4.9	0.1	4.6	4.7	.2
20	11	58 03	5.0	4.4	0.6	5.3	5.2	.3
21	11	58 13	4.4	4.6	0.2	4.5	4.4	.1
22	11	58 23	4.7	4.9	0.2	4.5	4.6	.2
23	11	58 33	4.6	4.9	0.3	4.4	4.5	.2
24	11	58 43	4.2	4.7	0.5	4.2	4.2	.0
25	11	58 53	4.1	5.2	1.1	3.6	3.8	.5

The above times are probably correct.

22) 1074

4.7 ✓

✓ Measures urged from BR 14, p. 25.



Copied from Book 7. 17

197

180

C 7596 March 5, 1895.

Ec. III Re.

	h m s.						✓	✓	
6	15	56	56	8.2	5.4	2.8	8.2	8.2	.0
7	15	57	06	7.7	5.4	2.3	7.7	7.7	.0
8	15	57	16	7.3	<del>4.5</del> 5.4	<del>2.8</del> 1.9	7.3	7.3	.0
9	15	57	26	7.5	5.1	2.4	7.8	7.6	.3
10	15	57	36	7.7	5.5	2.2	7.6	7.6	.1
11	15	57	46	7.1	5.3	1.8	7.2	7.2	.1
12	15	57	56	7.1	5.0	2.1	7.5	7.3	.4
13	15	58	06	7.4	5.4	2.0	7.4	7.4	.0
14	15	58	16	<del>7.4</del> 6.5	<del>5.4</del> 4.5	<del>2.0</del> 0.9	6.3	6.4	.2
15	15	58	26	6.5	5.4	1.1	6.5	6.5	.0
16	15	58	36	6.2	5.1	1.1	6.5	6.4	.3
17	15	58	46	6.1	5.6	0.5	5.9	6.0	.2
18	15	58	56	<del>5.6</del> 6.3	<del>4.9</del> 5.7	<del>0.7</del> 0.6	6.0	6.2	.3
19	15	59	06	6.1	5.6	0.5	5.9	6.0	.2
20	15	59	16	6.0	5.5	0.5	5.9	6.0	.1
21	15	59	26	5.4	5.1	0.3	5.7	5.6	.3
22	15	59	36	5.8	5.6	0.2	5.6	5.7	.2
23	15	59	46	5.4	5.2	0.2	5.6	5.5	.2
24	15	59	56	5.3	4.9	0.4	5.8	5.6	.5
25	16	00	06	5.6	5.5	0.1	5.5	5.6	.1
26	16	00	16	5.4	<del>5.0</del> 5.7	<del>0.4</del> 0.3	5.1	5.2	.3
27	16	00	26	5.8	5.6	0.2	5.6	5.7	.2
28	16	00	36	5.1	4.9	0.2	5.0	5.0	.1
29	16	00	46	4.9	5.4	0.5	<del>4.9</del> 5.1	<del>4.9</del> 5.0	.0
30	16	00	56	4.9	5.4	0.5	4.9	4.9	.0
				27 1349 ✓					
				5.4 ✓					

Measures in red from Bk 14, p. 25.  
 ✓ unchanged.



Copied from Book 7, 17

C 8436

Oct. 28, 1895.

Ec. # 1115.

	<i>h</i>	<i>m</i>	<i>s</i>							
12	19	<sup>2</sup> 16	28	5.1	4.3	0.8	5.1	5.1		.0
13		<sup>2</sup> 17	28	4.7	3.9	0.8	5.1	4.9		.4
14		<sup>2</sup> 18	28	4.8	3.9	0.9	5.2	5.0		.4
15		<sup>2</sup> 19	28	<del>5.4</del> <sup>4.5</sup>	<del>4.7</del> <sup>4.1</sup>	<del>0.7</del> <sup>0.4</sup>	4.7	4.6		.2
16		<sup>2</sup> 20	28	4.8	4.4	0.4	4.7	4.8		.1
17		<sup>2</sup> 21	28	5.1	4.3	0.8	5.1	5.1		.0
18		<sup>2</sup> 22	28	5.3	4.6	0.7	5.0	5.2		.3
19		<sup>2</sup> 23	28	5.5	4.4	1.1	5.4	5.4		.1
20		<sup>2</sup> 24	28	5.5	4.4	0.1	5.4	5.4		.1
21	19	<sup>2</sup> 25	28	5.7	4.4	1.3	5.6	5.6		.1
22		<sup>2</sup> 26	28	5.4	4.3	1.1	5.4	5.4		.0
23		<sup>2</sup> 27	28	5.5	3.9	1.6	5.9	5.7		.4
24		<sup>2</sup> 28	28	5.5	4.4	1.1	5.4	5.4		.1
25		<sup>2</sup> 29	28	5.4	4.3	1.1	5.4	5.4		.0
26		<sup>2</sup> 30	28	5.6	4.3	1.3	5.6	5.6		.0
27		<sup>2</sup> 31	28	5.7	4.3	1.4	5.7	5.7		.0
28		<sup>2</sup> 32	28	5.6	4.3	1.3	5.6	5.6		.0
29		<sup>2</sup> 33	28	6.3	4.4	1.9	6.2	6.2		.1
30		<sup>2</sup> 34	28	6.5	4.7	1.8	6.1	6.3		.4
31	19	<sup>2</sup> 35	28	6.9	4.3	2.6	6.9	6.9		.0
32		<sup>2</sup> 36	28	6.9	4.5	2.4	6.7	6.8		.2
33		<sup>2</sup> 37	28	7.7	4.5	3.2	7.5	7.6		.2
34		<sup>2</sup> 38	28	7.7	4.4	3.3	7.6	7.6		.1
35		<sup>2</sup> 39	28	8.9	4.2	4.7	9.0	9.0		.1
36	19	<sup>2</sup> 40	28	24 1035 ✓						
				4.3 ✓						

27 622  
10

Measures in red from BK 14, p. 25.  
 1. unchanged.



Copied from Book 17

199

130

Length of Exposure	C 9582			Oct. 22, 1896.			Ec. I 1115.			
	h	m	s							
8 secs	9	21	48	44	7.3	7.0	0.3	7.2	7.2	.1
10 "	10	21	48	55	6.9	6.8	0.1	7.0	7.0	.1
8 "	11	21	49	06	7.5	7.2	0.3	7.2	7.4	.3
8 "	12	21	49	16	7.2	7.2	0.0	6.9	7.0	.3
14.8 "	13	21	49	26	7.1	7.1	0.0	6.9	7.0	.2
8 "	14	21	49	36	7.3	6.7	0.6	7.5	7.4	.2
8 "	15	21	49	46	6.9	6.7	0.2	7.1	7.0	.2
10 "	16	21	49	57	6.9	6.8	0.1	7.0	7.0	.1
8 "	17	21	50	08	7.1	7.2	0.1	6.8	7.0	.3
8 "	18	21	50	18	7.5	7.2	0.3	7.2	7.4	.3
8 "	19	21	50	28	7.5	7.0	0.5	7.4	7.4	.1
8 "	20	21	50	38	7.4	6.7	0.7	7.6	7.5	.2
8 "	21	21	50	48	7.8	6.3	1.5	8.4	8.1	.6
8 "	22	21	51	00	7.7	6.9	0.8	7.7	7.7	.0
8 "	23	21	51	10	7.7	6.9	0.8	7.7	7.7	.0
8 "	24	21	51	20	7.8	6.9	0.9	7.8	7.8	.0
8 "	25	21	51	30	7.5	6.7	0.8	7.7	7.6	.2
8 "	26	21	51	40	7.7	6.7	1.0	7.9	7.8	.2
10 "	27	21	51	51	7.8	6.5	1.3	8.2	8.0	.4
8 "	28	21	52	02	7.9	7.0	0.9	7.8	7.8	.1
8 "	29	21	52	12	7.9	6.9	1.0	7.9	7.9	.0
8 "	30	21	52	22	8.3	6.8	1.5	8.4	8.4	.1
8 "	31	21	52	32	9.5	6.5	3.0	9.9	9.7	.4
8 "	32	21	52	42	23 1577					
10 "	33	21	52	53	6.9					

Measures in red from Bk 14, p. 25,  
unchanged.



Copied from Book 7  
C 14017

G. W. J.

8	13	06	44	8.9	5.7	3.2	8.2	8.6'	.7
9			54	8.0	4.8	3.2	8.2	8.1'	.2
10		07	04	7.3	4.8	2.5	7.5	7.4'	.2
11	13	07	14	6.8	4.9	1.9	6.9	6.8'	.1
12			24	6.3	4.4	1.9	6.9	6.6'	.6
13			34	5.8	4.4	1.4	6.4	6.1'	.6
14			44	5.6	4.4	1.2	6.2	5.9'	.6
15			54	5.3	4.6	0.7	5.7	5.5'	.4
16		08	04	5.3	4.4	0.9	5.9	5.6'	.6
17			14	5.7	5.1	0.6	5.6	5.6'	.1
18			24	5.4	5.0	0.4	5.4	5.4'	.0
19			34	5.4	5.1	0.3	5.3	5.4'	.1
20			44	5.6	5.3	0.3	5.3	5.4'	.3
21	13	08	54	5.1	4.2	0.9	4.8	5.0	.3
22		09	04	4.8	4.9	0.1	4.9	4.8	.1
23			14	4.9	4.8	0.1	5.1	5.0	.2
24			24	5.4	4.7	0.7	5.7	5.6'	.3
25			34	4.8	4.9	0.1	5.6	5.6'	.1
26			44	5.8	5.8	0.0	5.0	5.4'	.8
27			54	4.5	5.3	0.8	5.0	5.2'	.3
28		10	04	5.3	5.3	0.0	5.0	5.2'	.3
29			14	5.2	5.1	0.1	5.1	5.2'	.1
30	13	10	24	5.4	5.7	0.3	4.7	5.0	.7

Slight possibility that above times are incorrect.

23 1147  
5.0

Measurements in red from Bk 14, p. 25.  
✓ unchanged.



Copied from Book 11 <sup>h210</sup>201  
Shitaur.C 7674, April 10, 1895. E. III Re  
S. M. T.

5	12	05	50	8.4	5.7	2.7	8.6	12	8.5	05	25	.2
6		06	00	7.8	5.6	2.2	8.1		8.0		35	.3
7	12	05	45	7.9	5.9	2.0	7.9	12	7.9	05	45	.0
8			20	7.4	5.4	2.0	7.9		7.6		55	.5
9			30	7.7	5.8	1.9	7.8		7.8	06	05	.1
10			40	7.3	5.9	1.4	7.3		7.3		15	.0
11			50	7.2	5.9	1.3	7.2		7.2		25	.0
12		07	00	7.3	5.9	1.4	7.3		7.3		35	.0
13			10	6.9	6.0	1.9	7.8		6.8		45	.1
14			20	6.6	5.4	1.2	7.1		6.8		55	.5
15			30	6.5	5.8	0.7	6.6		6.6	07	05	.1
16			40	6.1	5.9	0.2	6.1		6.1		15	.0
17			50	6.3	5.9	0.4	6.3		6.3		25	.0
18		08	00	6.1	5.9	0.2	6.1		6.1		35	.0
19			10	6.6	6.5	0.1	6.0		6.3		45	.6
20			20	6.1	5.8	0.3	6.2		6.2		55	.1
21			30	6.2	5.9	0.3	6.2		6.2	08	05	.0
22			40	5.9	5.8	0.1	6.0		6.0		15	.1
23			50	5.9	5.8	0.2	6.1		6.0		25	.2
24		09	00	5.7	5.9	0.2	5.7		5.7		35	.0
25			10	6.5	6.7	0.2	5.7		6.1		45	.8
26			20	6.0	6.1	0.1	5.8		5.9		55	.2
27			30	5.8	5.9	0.1	5.8		5.8	09	05	.0
28			40	5.8	6.2	0.4	5.5		5.6		15	.3
29	12	09	50	5.9	6.1	0.2	5.7	12	5.8	09	25	.2

$$\begin{array}{r} 25 \overline{) 1476} \\ 5.9 \end{array}$$

$$\begin{array}{r} 8 \overline{) 349} \\ 5.6 \end{array}$$

✓ unchanged on new measurement.



Wm measures copied from Bk II, p. 216  
 odd " " " " 15, p. 68

C 14420, W. Melfhini, Aug. 15, 1903.

1	t	-	
2	13	23.5	-
3	13	28.5	-
4	13	33.5	<del>h3</del>
	13	38.5	<del>h6</del>
6	13	43.5	<del>h2</del>
	13	48.5	<del>h5</del>
	13	53.5	<del>g2</del> 95
	13	58.5	<del>h3</del> 95
	14	03.5	<del>77</del> 91
	14	08.5	<del>98</del> 91
12	14	13.5	<del>d9</del> 72
	14	18.5	<del>90</del> 74
	14	23.5	<del>d7</del> 70
	14	28.5	<del>72</del> 70
	14	33.5	<del>d7</del> 72
	14	38.5	<del>e8</del> 26
18	14	43.5	<del>d6</del> e1
	14	48.5	<del>e5</del> e4
	14	53.5	<del>d5</del> d9
	14	58.5	e4
	15	03.5	d6
	15	08.5	d8
24	c		d6

Measures in red  
 mean of  
 Lynne & Fritman's  
 remeasurement.



Even measures Copied from Bk II, p. 216 203  
 Odd " " " " 15, p. 67.

C 14430, W. Melfhini, Aug. 24, 1903.

1	t	-
	19 08.5	b8
	19 13.5	b8
	19 18.5	b9
	19 23.5	b9
6	19 28.5	C1
	19 33.5	b9
	19 38.5	C2
	19 43.5	b8
	19 48.5	C4
	19 53.5	<del>b4</del>
12	19 58.5	C3
	t	b9

*This image very poor*

Even measures Copied from Bk II, p. 217.  
 Odd " " " " 15, p. 68.

C 14459, W. Melfhini, Sept 22, 1903.

1	14 56.0	-
2	15 06.0	<del>b9</del> b6 L+II
3	15 16.0	b4
4	15 26.0	b8
5	15 36.0	b7
6	15 46.0	b7
7	15 56.0	b8
8	16 06.0	b8
9	16 16.0	b7
10	t	C0



188







1894phae.proj.1773.