

ADDENDUM TO APPENDIX No. 15.

TABLE SHOWING THE MODE OF REDUCING THE EXPERIMENTS.

*Reduction of experiments at various pressures.*

HEAVY END UP.

At 30 inches.

1st correction = Correction for expansion from 15° C. Coef. of exp. =  $184 \times 10^{-7}$ .

2d correction = *First* atmospheric correction adopting the *à priori* values, p. 272.

3d correction = *Second* atmospheric correction adopting the *à priori* values, p. 272.

4th correction = Correction for flexure of support, bells, and cylinder.

1877.	December 12.		December 14.		December 23.	
	<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>s.</i>
T <sub>a</sub> corrected for rate..	1.0065439	1.0065349	1.0065247	1.0065517	1.0065695	
1st correction .....	+ 395	+ 326	+ 510	+ 455	+ 491	
2d correction .....	- 151	- 149	- 267	- 320	- 330	
3d correction .....	- 7	- 8	- 14	- 19	- 19	
4th correction .....	- 209	- 209	- 209	- 209	- 209	
T <sub>a</sub> .....	1.0065467	1.0065309	1.0065267	1.0065424	1.0065628	
RECAPITULATION.						
1877, December 12 .....						T <sub>a</sub> = 1.0065389
14 .....						= 5267
23 .....						= 5526
Mean .....						T <sub>a</sub> = 1.0065394

At 29 inches.

1877.	December 12.		December 16.	
	<i>s.</i>	<i>s.</i>	<i>s.</i>	<i>s.</i>
T <sub>a</sub> corrected for rate..	1.0065322	1.0065448	1.0065421	
1st correction .....	+ 380	+ 426	+ 407	
2d correction .....	+ 40	+ 3	+ 8	
3d correction .....	+ 10	+ 7	+ 7	
4th correction .....	- 209	- 209	- 209	
T <sub>a</sub> .....	1.0065543	1.0065675	1.0065634	
RECAPITULATION.				
1877, December 12 .....				T <sub>a</sub> = 1.0065543
16 .....				= 5654
Mean .....				T <sub>a</sub> = 1.0065599

At 27 inches.

1877.	December 16.	
	<i>s.</i>	<i>s.</i>
T <sub>a</sub> corrected for rate..	1.0064775	1.0064574
1st correction .....	+ 426	+ 426
2d correction .....	+ 429	+ 429
3d correction .....	+ 50	+ 50
4th correction .....	- 209	- 209
T <sub>a</sub> .....	1.0065471	1.0065270
Mean .....	T <sub>a</sub> = 1.0065370	