

Imperial Steel Tape.	Comparisons.	Temperature Fahr. Deg.	Temperature Corrections to 62°.	Corrected Comparisons.	Value of Comparator from above.	Values of subsequent Comparators with Imperial Standard.	Residuals. Mean—Values.
1	= + .0002	at 59.050	+ .0019	= + .0021	+ 99.9981	= 100.0002	+ .00022
2	= + .0002	„ 59.025	+ .0019	= + .0021	+ 99.9981	= 100.0002	+ .00022
3	= + .00145	„ 60.075	+ .0012	= + .00265	+ 99.9981	= 100.00075	— .00033
4	= + .0009	„ 59.900	+ .0013	= + .0022	+ 99.9981	= 100.0003	+ .00012
5	= + .00135	„ 60.000	+ .0012	= + .00255	+ 99.9981	= 100.00065	— .00023
						5/.00210	
Mean						.00042	

Continued comparisons of steel reference tape with the comparator value 99.9981, each comparison being a new establishment of comparator :—

Second Set.

H. M. Kensington reading scale ; J. Langmuir making contact at rear end.

NOTE.—Perfect open-air conditions taken as 7 ; then the conditions for observations Nos. 6 to 10 will be 6.

6. (a.)	Tape is long = + .0007	Thermometer 263 at 59.5	Deg. Fahr.
		264 „ 59.2	
(b.)	„ = + .0005	„ 263 „ 59.0	
		264 „ 58.9	
Means	.. + .0006	Thermometer at 59.15	
7. (a.)	Tape is long = + .0007	Thermometer 263 at 59.0	
		264 „ 59.0	
(b.)	„ = + .0010	„ 263 „ 59.20	
		264 „ 59.50	
Means	= + .00085	Thermometer at 59.175	
8. (a.)	Tape is long = + .0015	Thermometer 263 at 59.7	
		264 „ 59.2	
(b.)	„ = + .0017	„ 263 „ 60.0	
		264 „ 60.0	
Means	= + .0016	Thermometer at 59.725	
9. (a.)	Tape is long = + .0016	Thermometer 263 at 60	
		264 „ 60	
(b.)	„ = + .0018	„ 263 „ 60	
		264 „ 60	
Means	= + .0017	Thermometer at 60	
10. (a.)	Tape is long = + .0016	Thermometer 263 at 60.2	
		264 „ 60.0	
(b.)	„ = + .0017	„ 263 „ 60.2	
		264 „ 60.0	
Means	= + .00165	Thermometer at 60.1	

Imperial Steel Tape.	Comparisons.	Temperature Fahr. Deg.	Temperature Corrections to 62°.	Corrected Comparisons.	Value of Comparator from above.	Values of subsequent Comparators with Imperial Standard.	Residuals.
1	= + .0006	at 59.150	+ .0018	= + .0024	+ 99.9981	= 100.0005	= + .00038
2	= + .00085	„ 59.175	+ .0018	= + .00265	+ 99.9981	= 100.00075	= + .00013
3	= + .0016	„ 59.725	+ .0014	= + .0030	+ 99.9981	= 100.0011	= — .00022
4	= + .0017	„ 60.000	+ .0013	= + .0030	+ 99.9981	= 100.0011	= — .00022
5	= + .00165	„ 60.100	+ .0012	= + .00285	+ 99.9981	= 100.00095	= — .00007
						5/.0044	
Mean						.00088	