

CALCULATION FOR FINDING THE LATITUDE FROM OBSE  
REPEATING REFLECTING CIRCLE.

TROUGHTON'S Circle.

11 49 36.9	Noon by Chronometer.	Instrument at 280° 40' 00"
<u>11 88 23.3</u>	11 13.6	247.57

Circum-meridian Observations made at Makerstown, 9th February 1820, in order to determine the L  
Glass Roofs.

Noon by Chronometer. h ' "	Time from Noon.	$2 \frac{\text{Sine } 2 \frac{1}{2} P}{\text{Sine } 1''}$	Observed Angles.
0 7 13			
<hr/>			
0 58 30	8.43	149.17	38° 31' 40"
0 4	7.09	100.37	32 50
1 52	5.21	56.20	33 30
2 45	4.28	39.17	34 10
3 36	3.37	25.68	34 30
4 47	2.26	11.63	35 00
5 57	1.16	3.15	35 10
6 40	0.33	0.59	35 05
7 49	0.36	0.71	35 00
8 37	1.24	3.85	34 50
9 37	2.24	11.31	34 40
10 33	3.20	21.82	34 30
11 47	4.34	40.95	34 20
12 45	5.32	60.11	34 00
13 45	6.32	83.81	33 40
14 40	7.27	108.97	33 20
15 40	8.27	140.18	32 30

Times,	-	2 49 12 0	49 57 0	50 4
Altitudes,	-	24 50	24 40 0	24 3
		Er. — 6		
		<hr/>		
		$\frac{1}{2}$ 24 44 0	☉'s daily var.	17 39
		12 22 0		2 59

		12 22 0	
		+ 12 3 2	
		<hr/>	
Altitudes corrected,		12 34 8 2	12 29 6 4

☉'s declination, 1st observation,  
Co-latitude, co-sine, ar. co.

☉'s declin. 1st observation,	16 1
Co-latitude,	- - 39 4
	<hr/>
	23 2

☉'s mer. alt.	23 21 14	Nat. sin
	12 34 8	

Proportional parts, - -

DIRECTIONS FOR BINDING VOL. IX.

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*N. B.*—The Binder will observe, that there are Two Folding Tables belonging to Part I. of this Volume; one of which is to face page 102, and the other, which is paged, to face p. 232.

Besides these, there is another Folding Table, paged 503 and 504, which is a cancel, to be substituted in Vol. VIII. Part II. for the *Two* Folding Tables in that volume, marked pp. 503, 504, 505, and 506.

It will further be noticed, that in binding the whole volume, the Vignette Title-page, given in Part I., and dated 1821, is to be cancelled, and the other Title-page, dated 1823, to be substituted in its place.

The Table of Contents given with Part I. is also to be cancelled, the entire Contents of the volume being given with Part II.