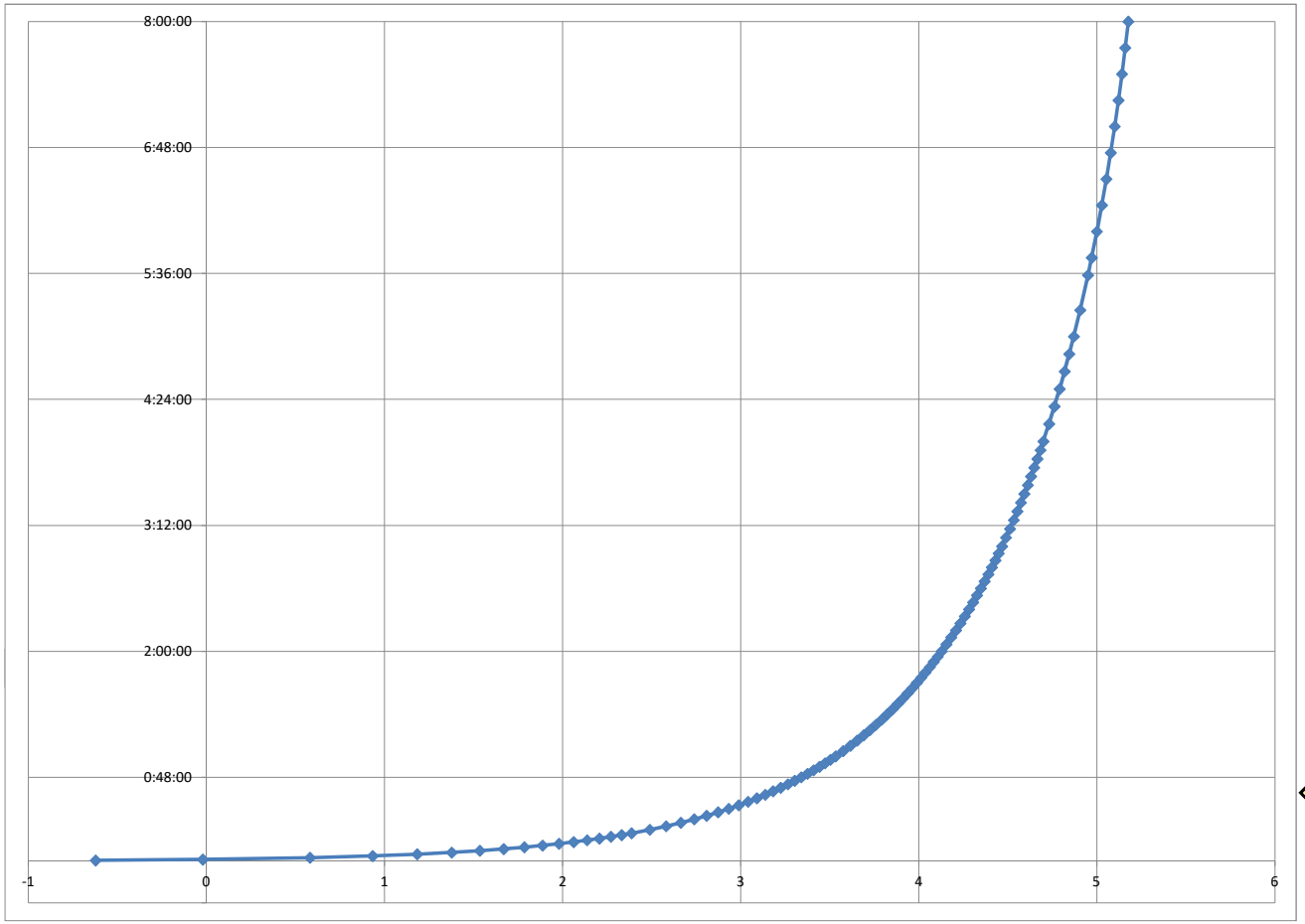
Time from Noon vs. Log. Rising

Navigators in the 19th Century would have used tables for
LOG. Rising vs. **Time From Noon** contained in
"***The New American Practical Navigator***" by Nathaniel Bowditch 1826.



Calculating Time from Noon by Table Lookup

Point A

Index	94		
X1	4.949942588	Y1	83.75
Log Rising	**4.963372974**	Meridian Angle	85.37345979
X2	4.970624323	Y2	86.25
		Time from Noon	**5:41:30**

Point B

Index	94		
X1	4.949942588	Y1	83.75
Log Rising	**4.963224224**	Meridian Angle	85.35547897
X2	4.970624323	Y2	86.25
		Time from Noon	**5:41:25**

Point C

Index	94		
X1	4.949942588	Y1	83.75
Log Rising	**4.963019827**	Meridian Angle	85.33077157
X2	4.970624323	Y2	86.25
		Time from Noon	**5:41:19**

Click to view Sumner LOP worksheet

$$\text{Log. Rising} = 5+\text{LOG}_{10}[1-\text{COS}(\text{Meridian Angle})]$$

Used to calculat a point on a Line of Position using Capt. Thomas H. Sumner's Method