

Step	Description	Value
Step 3	Measurements from My Analemma	
	h - Needle Height (Inches)	8 5/16 8.31
	Distance to Summer Solstice Point (inches)	2 7/16 2.44
	Distance to Winter Solstice Point	16 25/32 16.78
Step 4	Calculate the Altitude of Sun at the Summer and Winter Solstices	
	Altitude Summer Solstice (degrees)	73.66
	Altitude Winter Solstice (degrees)	26.35
Step 5	Specify the Relationships between the Altitude of the Sun at Summer Solstice, the Tilt of the Earth's Axis and the Observer's Latitude	
	ObsLatitude – TiltOfAxis (degrees)	16.34
Step 6	Specify the Relationships between the Altitude of the Sun at Winter Solstice, the Tilt of the Earth's Axis, and the Observer's Latitude	
	ObsLatitude – TiltOfAxis (degrees)	63.65
Step 7	Specify the Observing Latitude by adding the equations from Step 4 and Step 5	
	Calculated Observers Latitude (degrees)	40.00
	Actual Observers Latitude (degrees)	39.93
Step 8	Specify the Tilt of the Earth's Axis by subtracting the equation from Step 4 from the equation from Step 5	
	Calculated Tilt of Earth's Axis (degrees)	23.65
	Actual Tilt of Earth's Axis (degrees)	23.44