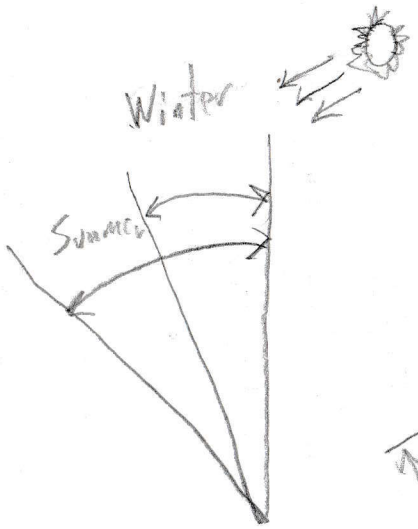
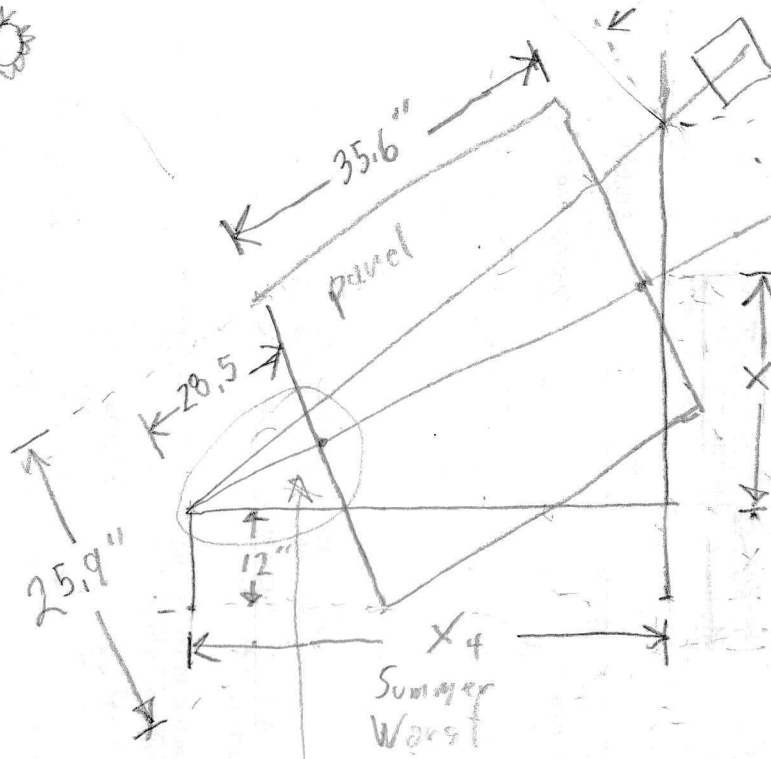
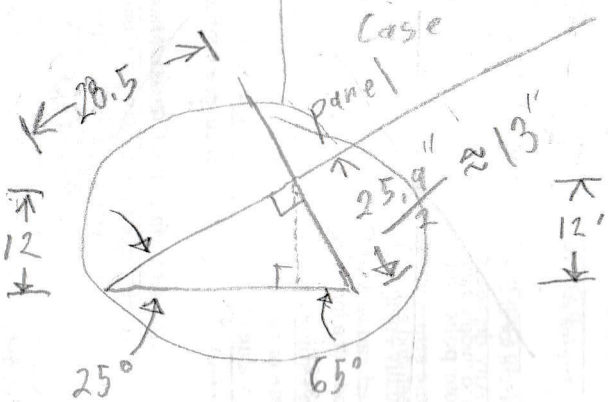
mdpoli.com/suntracker



at 40° Latitude

Winter	90°-26° = 64°	
Summer	90°-72° = 18°	
Jan 1	90°-30° = 60°	
Feb 15	90°-35° = 55°	
Mar 15	90°-45° = 45°	
Apr 15	90°-55° = 35°	
May 15	90°-65° = 25°	
Sep 15		35°
Oct 15		45°
Nov 15		55°





$13 \sin 65° \approx 12"$

$x \sin 25° = 12"$

$x = \frac{12}{\sin 25} \approx 28.5"$

$(28.5" + 35.6") \sin(25°) = X_2$

$X_2 = 27"$

$X_3 = 27 + 12" = 35"$

$(28.5" + 35.6") \cos(25°) = X_4$

$X_4 = 58"$

$X_6 \cos(60°) = 58"$

$X_6 = \frac{58"}{\cos(60°)} = 116"$

$116" \sin(60°) = X_5$

$X_5 = 100.5"$