

Michael Rodriguez

Date: 10/31/2021

Location: Victorville

bucket D1: 11½ in.

bucket D2: 10½ in.

D: $(11.5 - 10.5)/2 = 0.5$

H: 50½ in.

smallest z1: 45.5

smallest z2: 45.7

A = 45.7 - 45.5 = 0.2

R = $180 * 0.5 / (0.2 * \pi)$

=143.23

Time	S	X1	L=S+X1-D	tan(z)=L/H	z = ATAN(L/H)
11:30	52 in.	5 in.	56.5	1.11	48.2
11:35	50¼ in.	5 in.	54.75	1.08	47.3
11:40	49½ in.	5 in.	54	1.06	46.9
11:45	48¾ in.	5 in.	53.25	1.05	46.5
11:50	48½ in.	5 in.	53	1.04	46.3
11:55	48 in.	5 in.	52.5	1.03	46.1
12:00	47½ in.	5 in.	52	1.04	45.8
12:30	47 in.	5 in.	51.5	1.01	45.5
12:40	47¼ in.	5 in.	51.75	1.02	45.7
12:50	47 ½ in.	5 in.	52	1.04	45.8

Shadow Measurements

