

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P941339

Luminaire Tested: **GALN-SB4D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

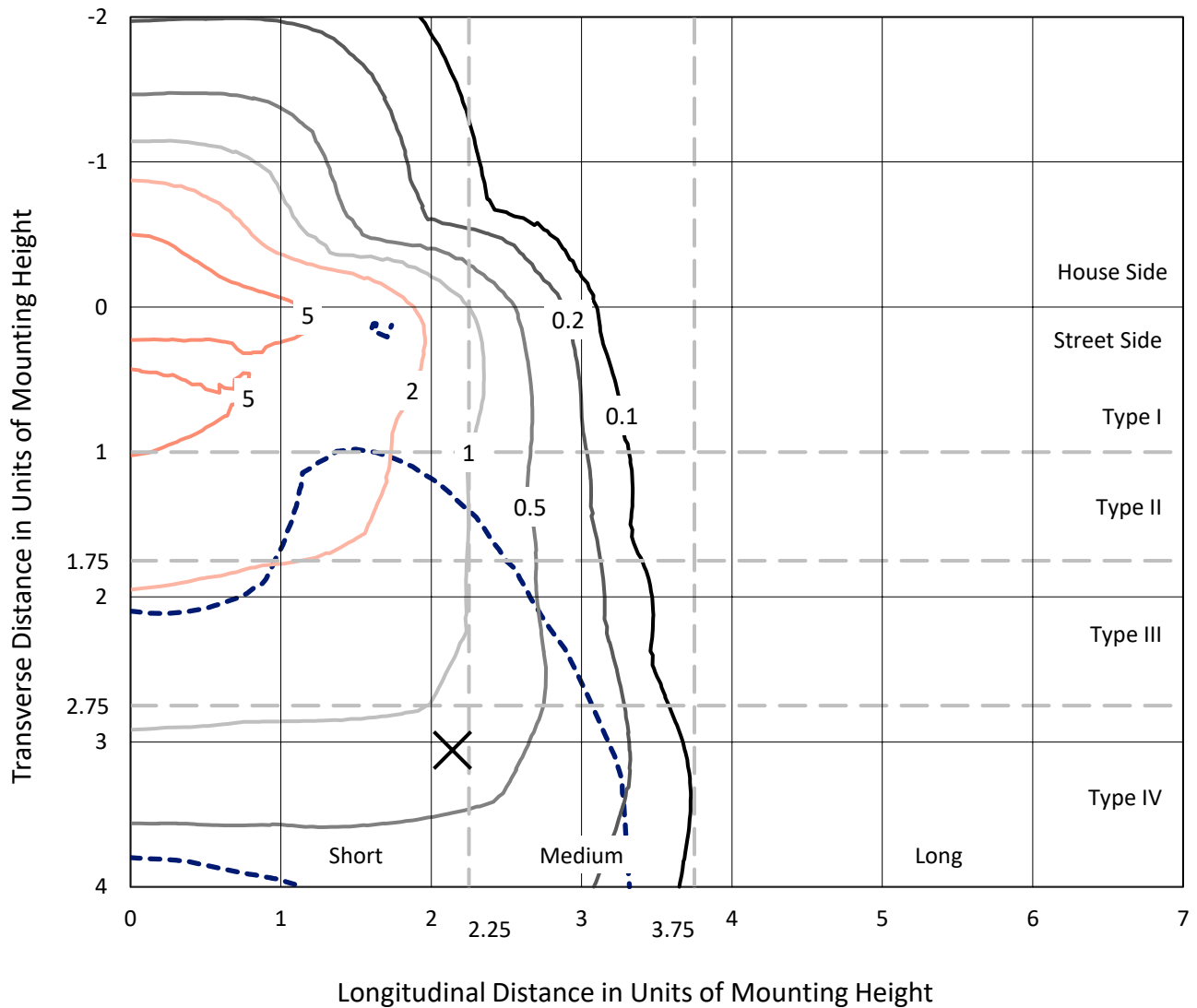
Lumens per Lamp: N/A  
Luminaire Lumens: 35051 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

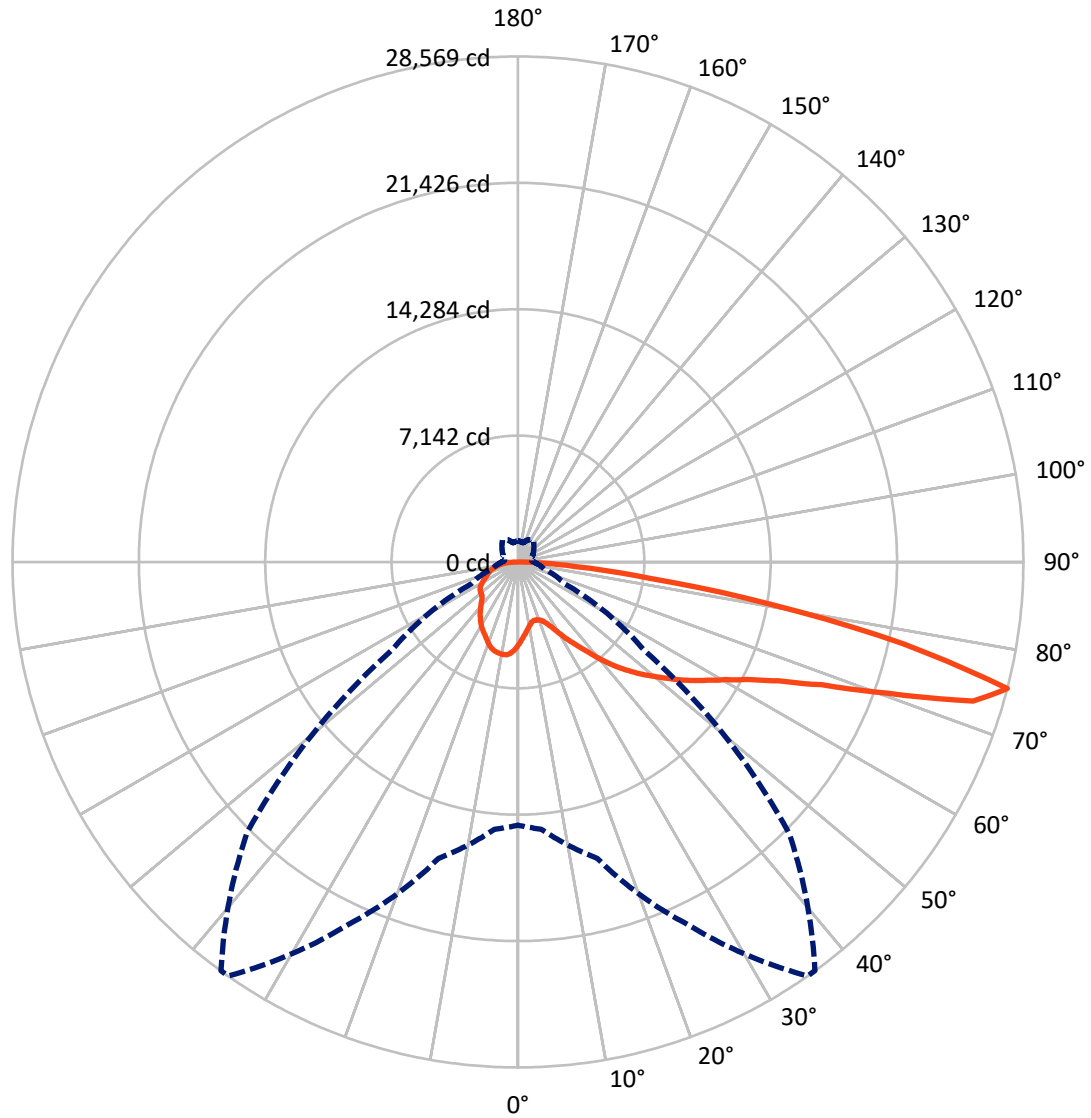
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8341.3	0.0	8341.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	26709.7	0.0	26709.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	35051.0	0.0	35051.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.2	1.3
10°-20°	1275.6	3.6
20°-30°	2142.0	6.1
30°-40°	3329.0	9.5
40°-50°	4941.2	14.1
50°-60°	6821.6	19.5
60°-70°	8276.1	23.6
70°-80°	6839.6	19.5
80°-90°	983.7	2.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35051.0	100.0
0°-180°	35051.0	100.0

**Coefficient of Utilization**



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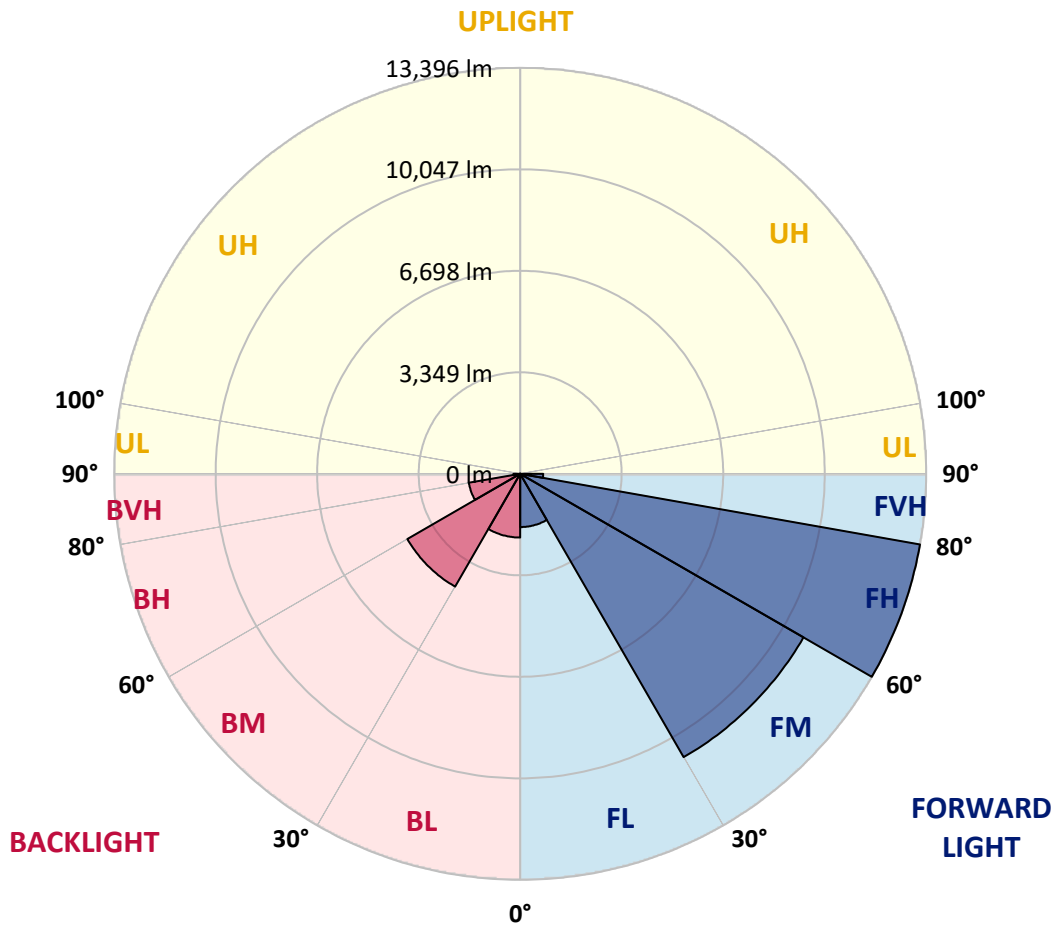
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.7	5.0			
FM (30°-60°)	10793.8	30.8			
FH (60°-80°)	13396.0	38.2			G5
FVH (80°-90°)	762.2	2.2			G5
BL (0°-30°)	2102.1	6.0	B3/2500		
BM (30°-60°)	4297.9	12.3	B3/5000		
BH (60°-80°)	1719.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	221.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8
2.5°	4307.0	4333.5	4344.9	4339.2	4367.6	4363.8	4403.6	4452.9	4521.1	4587.4
5°	3975.4	4003.8	4028.4	4051.2	4106.1	4123.2	4185.7	4280.4	4405.5	4532.5
7.5°	3666.5	3691.2	3729.0	3770.7	3863.6	3880.6	3984.9	4132.6	4307.0	4492.7
10°	3414.5	3439.1	3478.9	3526.3	3641.9	3662.7	3795.4	3992.4	4219.8	4454.8
12.5°	3306.5	3314.1	3336.8	3384.2	3484.6	3497.9	3643.8	3869.3	4134.5	4426.3
15°	3300.8	3316.0	3317.9	3342.5	3425.9	3431.6	3566.1	3789.7	4081.5	4420.7
17.5°	3357.7	3369.0	3352.0	3367.1	3437.2	3446.7	3552.8	3751.8	4064.4	4445.3
20°	3509.2	3518.7	3467.6	3446.7	3497.9	3505.5	3609.7	3776.4	4081.5	4496.5
22.5°	3831.4	3837.1	3712.0	3626.7	3630.5	3634.3	3725.3	3876.8	4147.8	4589.3
25°	4333.5	4329.7	4130.8	3965.9	3871.2	3850.3	3911.0	4039.8	4259.6	4712.5
27.5°	4920.9	4892.5	4693.5	4447.2	4240.7	4210.3	4197.1	4252.0	4418.8	4875.4
30°	5584.1	5557.6	5343.5	5021.3	4735.2	4685.9	4560.9	4532.5	4655.6	5097.1
32.5°	6311.7	6294.7	6038.9	5648.5	5265.8	5208.9	4998.6	4922.8	5019.4	5432.5
35°	6921.9	6906.7	6694.5	6292.8	5824.7	5754.6	5540.5	5455.2	5504.5	5862.6
37.5°	7473.3	7465.7	7283.8	6967.3	6484.1	6398.9	6158.2	6129.8	6120.3	6429.2
40°	7984.9	7965.9	7776.4	7609.7	7251.6	7173.9	6961.6	6937.0	6865.0	7126.5
42.5°	8551.4	8502.2	8227.4	8149.7	8053.1	7988.6	7861.7	7865.5	7706.3	7912.9
45°	9013.8	8985.3	8703.0	8657.5	8761.7	8735.2	8845.1	8873.5	8564.7	8737.1
47.5°	9510.2	9483.7	9244.9	9212.7	9495.0	9502.6	9891.1	9900.5	9402.2	9593.6
50°	10122.2	10084.3	9847.5	9887.3	10203.7	10232.1	10942.7	10878.3	10173.4	10463.3
52.5°	10525.8	10548.6	10497.4	10561.8	10993.9	11020.4	11977.3	11812.4	10937.0	11321.7
55°	10823.3	10868.8	11028.0	11175.8	11827.6	11854.1	12953.1	12701.1	11569.9	12117.5
57.5°	11206.1	11141.7	11439.2	11727.2	12619.6	12689.7	13902.4	13557.6	12130.8	12803.4
60°	11755.6	11710.1	11941.3	12367.6	13506.4	13618.2	14906.7	14328.8	12542.0	13347.3
62.5°	12869.8	12756.1	12792.1	13169.1	14624.4	14772.2	16039.8	15001.5	12746.6	13559.5
65°	14535.3	14340.2	14158.3	14419.7	16199.0	16344.9	17318.8	15530.1	12670.8	13148.3
67.5°	16632.9	16439.6	16216.0	16462.4	18518.3	18633.9	18897.2	15827.6	12073.9	11564.2
70°	18362.9	18290.9	18558.1	19571.8	22222.7	22226.5	20920.9	15581.3	10438.7	8199.0
72.5°	18133.6	18090.0	19497.9	22632.0	26891.6	26791.2	22836.6	13716.8	7031.8	3698.7
75°	14876.4	15158.7	17339.7	22577.0	28568.5	28555.3	21663.7	8720.1	2908.6	1532.9
77.5°	7977.3	8424.5	11257.2	16668.9	22302.3	22637.7	15230.7	3050.7	1248.7	981.5
80°	2601.6	2992.0	4487.0	8487.0	14491.7	14429.2	6527.7	1197.5	854.6	695.4
82.5°	1104.7	1150.2	2004.7	4007.6	7437.3	7321.7	2078.6	687.8	600.7	475.6
85°	432.0	483.2	884.9	1853.2	3221.2	3151.1	750.4	341.1	384.7	310.8
87.5°	142.1	172.4	316.4	634.8	1002.4	966.4	183.8	117.5	166.7	142.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4670.8	0°	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8	4670.8
4684.0	2.5°	4710.6	4740.9	4776.9	4829.9	4875.4	4913.3	4953.1	4977.7	4987.2	5015.6
4691.6	5°	4744.7	4811.0	4900.1	4987.2	5072.5	5123.6	5169.1	5191.9	5212.7	5227.9
4712.5	7.5°	4801.5	4886.8	5027.0	5140.7	5212.7	5254.4	5284.7	5277.1	5284.7	5288.5
4735.2	10°	4850.8	4970.2	5136.9	5244.9	5299.9	5301.8	5294.2	5267.7	5254.4	5256.3
4769.3	12.5°	4909.5	5042.2	5222.2	5313.1	5328.3	5286.6	5254.4	5208.9	5191.9	5184.3
4820.5	15°	4989.1	5140.7	5315.0	5349.1	5311.2	5258.2	5203.2	5129.3	5091.4	5061.1
4907.6	17.5°	5085.8	5252.5	5387.0	5362.4	5280.9	5193.8	5104.7	4992.9	4915.2	4883.0
5027.0	20°	5220.3	5370.0	5442.0	5334.0	5210.8	5078.2	4926.6	4790.2	4718.2	4685.9
5178.6	22.5°	5383.2	5527.3	5495.0	5284.7	5110.4	4898.2	4708.7	4608.3	4572.3	4549.5
5373.8	25°	5578.4	5701.6	5532.9	5212.7	4945.5	4659.4	4513.5	4481.3	4464.2	4447.2
5612.5	27.5°	5832.3	5898.6	5561.4	5106.6	4687.8	4405.5	4352.4	4358.1	4352.4	4324.0
5944.1	30°	6167.7	6154.4	5587.9	4934.2	4392.2	4176.2	4180.0	4204.7	4208.4	4189.5
6406.5	32.5°	6609.2	6474.7	5601.1	4710.6	4109.9	3975.4	3979.2	4005.7	4024.6	3992.4
7010.9	35°	7143.6	6848.0	5580.3	4430.1	3892.0	3784.0	3755.6	3763.2	3768.8	3738.5
7744.2	37.5°	7767.0	7266.7	5487.5	4119.4	3712.0	3596.4	3535.8	3484.6	3454.3	3425.9
8574.2	40°	8451.0	7723.4	5316.9	3816.2	3511.1	3397.4	3306.5	3209.9	3107.5	3069.6
9453.4	42.5°	9167.2	8193.3	5110.4	3526.3	3280.0	3187.1	3090.5	2950.3	2796.8	2719.1
10366.7	45°	9910.0	8674.6	4907.6	3240.2	3043.1	3003.3	2891.5	2722.9	2556.1	2457.6
11281.9	47.5°	10637.6	9129.3	4610.1	2952.2	2821.4	2865.0	2777.8	2622.5	2436.8	2281.4
12189.5	50°	11333.0	9555.7	4123.2	2660.4	2641.4	2823.3	2739.9	2516.3	2304.1	2105.2
13080.1	52.5°	12022.8	9900.5	3499.8	2395.1	2544.8	2811.9	2690.7	2444.3	2184.8	1976.3
13917.6	55°	12608.3	10078.7	2899.1	2167.7	2404.6	2715.3	2631.9	2359.1	2016.1	1794.4
14491.7	57.5°	12941.8	9934.7	2398.9	1944.1	2211.3	2556.1	2531.5	2177.2	1815.3	1644.7
14603.5	60°	12797.8	9351.0	1989.6	1748.9	2027.5	2383.7	2357.2	1997.2	1661.8	1500.7
14004.8	62.5°	12003.8	8238.8	1665.6	1578.4	1860.7	2207.5	2182.9	1858.8	1544.3	1388.9
12415.0	65°	10404.6	6702.1	1413.6	1436.3	1692.1	1995.3	2031.3	1743.3	1451.4	1299.9
9604.9	67.5°	7935.6	4854.6	1216.5	1313.1	1527.2	1786.8	1891.1	1659.9	1373.8	1229.8
5557.6	70°	4523.0	2757.0	1049.7	1193.7	1381.3	1593.6	1783.0	1593.6	1290.4	1171.0
2082.4	72.5°	1714.8	1265.8	907.6	1074.4	1241.1	1430.6	1663.7	1489.3	1193.7	1104.7
1076.3	75°	915.2	771.2	763.6	934.2	1080.1	1271.4	1514.0	1387.0	1121.7	1167.2
744.7	77.5°	623.4	545.7	638.6	799.6	903.8	1095.2	1354.8	1231.6	972.1	968.3
515.4	80°	432.0	386.5	519.2	644.2	699.2	920.9	1182.4	1057.3	792.0	739.0
318.3	82.5°	259.6	252.0	388.4	481.3	494.6	710.6	979.6	886.8	648.0	564.7
189.5	85°	142.1	149.7	248.2	282.3	288.0	496.4	767.4	685.9	498.3	418.8
68.2	87.5°	39.8	51.2	91.0	111.8	138.3	257.7	456.7	407.4	250.1	174.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4670.8
5013.7
5231.7
5294.2
5260.1
5180.5
5070.6
4884.9
4682.2
4553.3
4447.2
4329.7
4199.0
4007.6
3759.4
3444.8
3086.7
2728.6
2450.0
2264.3
2088.1
1953.6
1775.5
1622.0
1478.0
1364.3
1275.2
1207.0
1155.9
1089.5
<i>1205.1</i>
892.5
706.8
568.5
422.5
174.3
0.0

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