

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: P948198

Luminaire Tested: **GALN-SB3B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14358 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

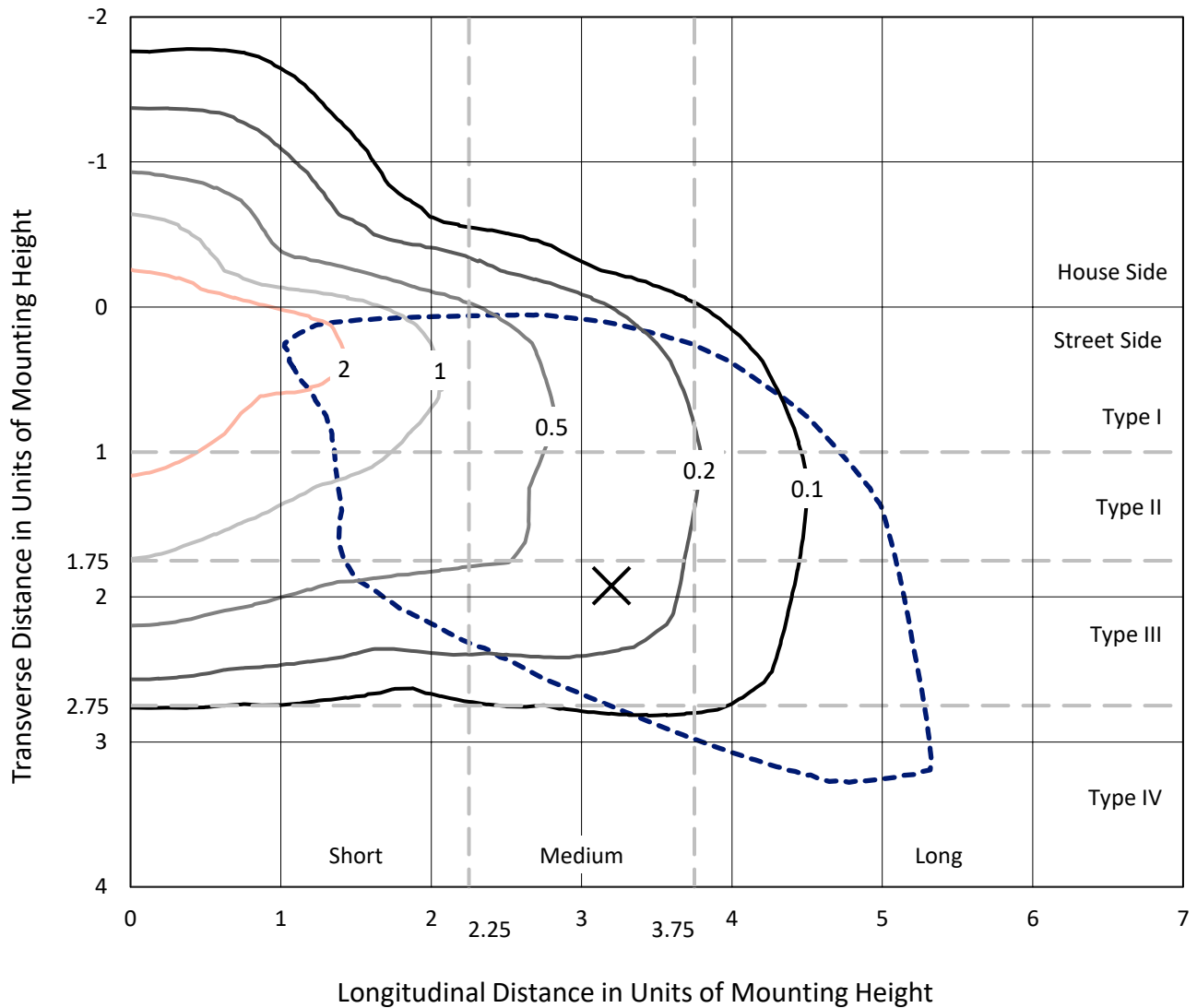
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

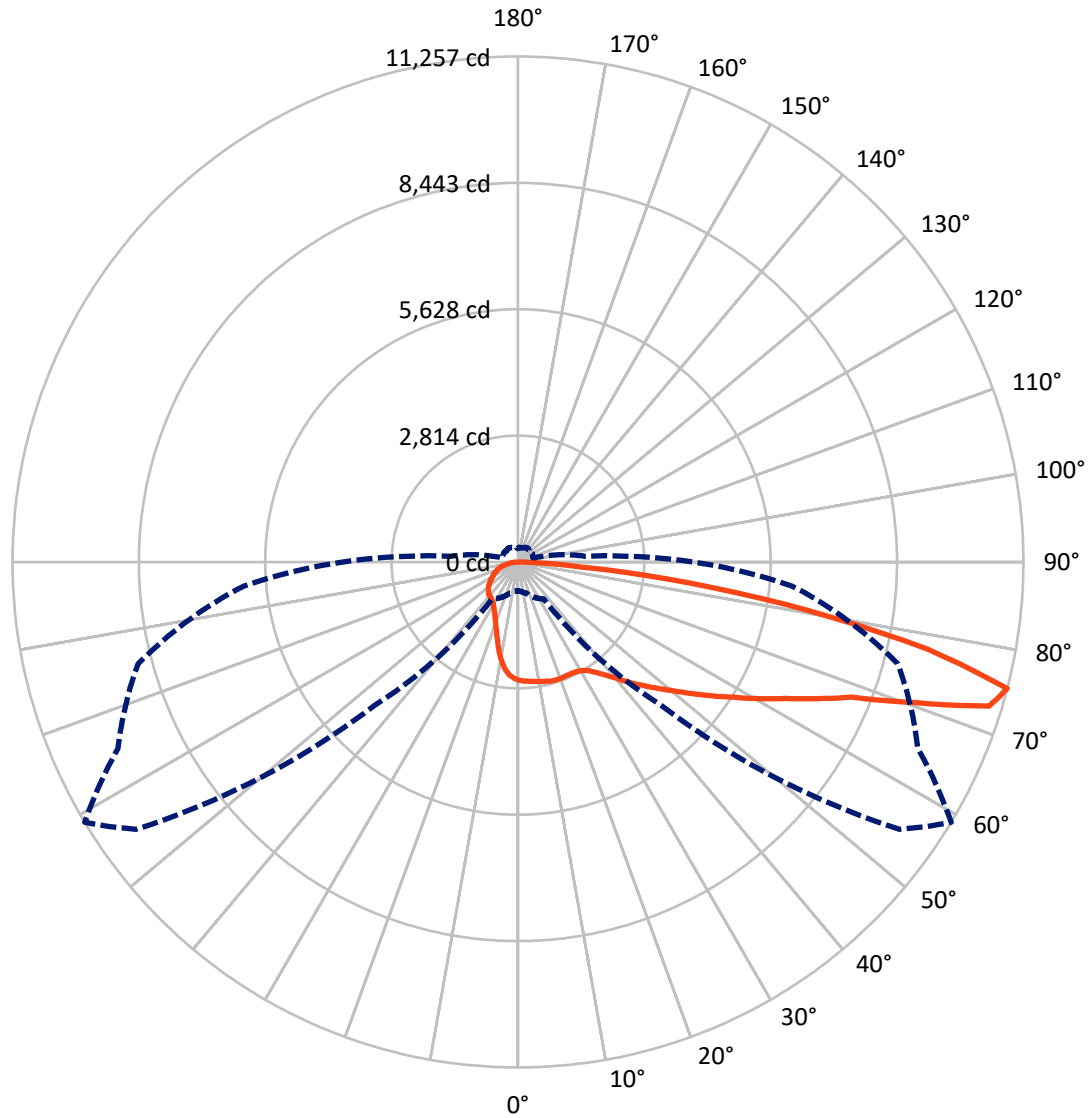
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.0	0.0	2693.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11665.1	0.0	11665.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	14358.0	0.0	14358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	1.6
10°-20°	604.0	4.2
20°-30°	917.4	6.4
30°-40°	1363.8	9.5
40°-50°	2028.1	14.1
50°-60°	2753.0	19.2
60°-70°	3360.9	23.4
70°-80°	2637.6	18.4
80°-90°	456.9	3.2
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°	14358.0	100.0
0°-180°	14358.0	100.0

Coefficient of Utilization



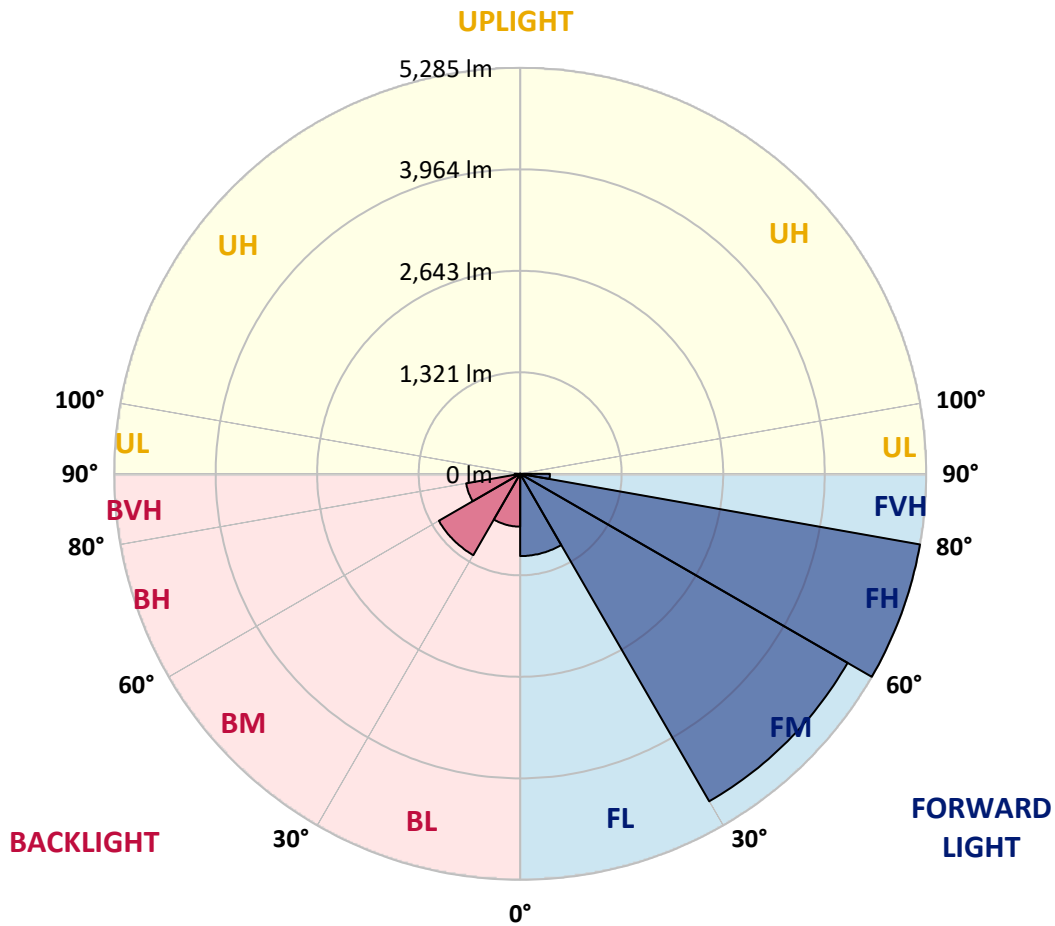
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.5	7.5			
FM (30°-60°)	4922.5	34.3			
FH (60°-80°)	5285.0	36.8			G3/7500
FVH (80°-90°)	387.0	2.7			G3/500
BL (0°-30°)	687.2	4.8	B2/1000		
BM (30°-60°)	1222.3	8.5	B2/2500		
BH (60°-80°)	713.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	69.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4
2.5°	2657.8	2648.5	2657.8	2653.9	2652.4	2649.3	2650.1	2655.5	2652.4	2656.2
5°	2640.0	2634.6	2643.9	2641.6	2651.6	2653.1	2663.2	2669.4	2673.2	2674.0
7.5°	2610.7	2605.3	2618.4	2629.2	2650.8	2657.0	2677.9	2687.9	2693.3	2702.6
10°	2503.3	2501.0	2533.4	2574.4	2625.3	2657.0	2688.7	2705.7	2714.2	2738.9
12.5°	2313.3	2316.4	2358.9	2437.6	2539.6	2641.6	2701.0	2725.7	2738.9	2769.8
15°	2131.8	2131.0	2177.4	2261.5	2404.4	2573.6	2707.2	2749.7	2772.1	2817.7
17.5°	2026.7	2023.6	2056.1	2120.2	2253.0	2469.3	2691.8	2762.8	2810.7	2867.9
20°	2007.4	2001.3	2018.2	2049.9	2144.1	2355.0	2651.6	2762.8	2841.6	2915.8
22.5°	2077.7	2067.7	2060.7	2056.9	2098.6	2260.8	2606.0	2753.6	2887.2	2984.5
25°	2219.1	2203.6	2168.1	2133.3	2121.0	2218.3	2565.9	2751.2	2955.1	3077.2
27.5°	2447.7	2428.4	2356.5	2273.1	2198.2	2239.9	2548.1	2765.1	3030.1	3175.3
30°	2731.2	2710.3	2619.9	2491.7	2357.3	2320.2	2570.5	2806.1	3125.8	3305.8
32.5°	2985.3	2962.1	2884.9	2754.3	2572.8	2459.3	2641.6	2884.1	3276.5	3487.3
35°	3210.8	3183.8	3114.3	2993.8	2837.0	2654.7	2769.8	3022.3	3490.4	3782.4
37.5°	3431.7	3400.0	3324.3	3196.9	3087.2	2915.0	2946.7	3200.0	3774.6	4140.8
40°	3678.9	3633.3	3541.4	3415.5	3308.9	3220.1	3179.1	3417.8	4063.5	4540.9
42.5°	3918.3	3875.1	3765.4	3658.0	3524.4	3498.9	3448.7	3672.7	4379.4	4980.3
45°	4176.3	4124.5	3991.7	3855.7	3771.6	3684.3	3709.8	3927.6	4689.2	5428.3
47.5°	4418.0	4360.1	4203.3	4051.9	4005.6	3840.3	3949.2	4208.0	5011.2	5882.5
50°	4548.6	4491.4	4360.9	4224.2	4187.9	4032.6	4208.7	4516.1	5348.8	6335.1
52.5°	4657.5	4595.7	4425.0	4349.3	4338.5	4241.9	4528.5	4868.3	5686.3	6735.2
55°	4773.3	4704.6	4486.8	4418.8	4468.2	4476.7	4907.7	5267.7	6043.1	7125.3
57.5°	4907.0	4819.7	4546.3	4477.5	4594.9	4751.7	5343.4	5681.7	6393.8	7486.7
60°	5032.9	4944.8	4660.6	4571.0	4731.6	5070.7	5843.1	6182.9	6790.8	7808.8
62.5°	5057.6	4985.0	4751.7	4750.9	4917.0	5443.0	6434.7	6688.9	7137.6	8127.0
65°	4629.7	4584.1	4445.9	4744.0	5182.7	5979.0	7093.6	7336.1	7578.6	8405.1
67.5°	3523.6	3529.8	3519.8	4095.2	4968.0	6749.1	8047.5	8028.9	8123.2	8717.1
70°	1611.2	1647.5	1883.8	2826.9	3980.1	6837.9	9624.7	9384.5	8806.7	9121.1
72.5°	870.5	898.3	994.8	1369.4	2392.8	6079.4	10803.4	10974.1	9715.8	9393.0
75°	638.8	654.2	721.4	870.5	1004.9	4518.5	10380.9	11256.7	9829.4	8758.9
77.5°	478.1	485.1	539.9	689.7	514.4	2382.0	8294.6	9322.7	8414.4	7196.3
80°	346.8	354.5	395.5	517.5	360.7	871.3	5695.6	6543.6	5762.8	4587.2
82.5°	239.4	242.5	260.3	352.2	251.8	338.3	3231.7	3837.2	3217.0	1609.7
85°	144.4	148.3	156.0	205.5	142.9	160.7	1394.9	1442.8	961.6	384.6
87.5°	59.5	63.3	69.5	86.5	56.4	44.8	230.2	288.9	180.0	112.8
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°
2635.4	0°	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4	2635.4
2643.1	2.5°	2639.2	2633.8	2619.2	2599.1	2580.5	2557.4	2547.3	2538.8	2531.1	2516.4
2664.0	5°	2655.5	2640.8	2601.4	2550.4	2492.5	2429.2	2367.4	2324.9	2288.6	2261.5
2687.9	7.5°	2680.2	2652.4	2580.5	2476.3	2343.4	2207.5	2084.7	1997.4	1931.7	1907.8
2721.9	10°	2705.7	2672.5	2547.3	2363.5	2134.1	1924.8	1761.8	1672.2	1619.7	1602.7
2762.1	12.5°	2735.8	2687.1	2495.6	2206.7	1900.1	1670.7	1528.6	1476.0	1449.0	1439.7
2811.5	15°	2779.8	2699.5	2417.6	2010.5	1676.8	1485.3	1393.4	1357.1	1343.2	1342.4
2862.5	17.5°	2813.0	2701.8	2296.3	1800.4	1505.4	1373.3	1297.6	1283.7	1293.0	1306.9
2912.7	20°	2850.1	2680.9	2137.2	1608.9	1384.9	1275.2	1243.5	1252.8	1275.2	1295.3
2979.1	22.5°	2876.4	2643.1	1944.9	1459.8	1280.6	1218.8	1217.3	1236.6	1248.9	1259.0
3057.1	25°	2899.5	2579.0	1741.0	1334.7	1194.9	1184.8	1201.8	1195.7	1187.2	1195.7
3135.1	27.5°	2916.5	2477.8	1558.7	1225.0	1134.6	1161.7	1151.6	1137.7	1137.0	1141.6
3227.0	30°	2911.1	2342.6	1408.8	1120.7	1092.2	1118.4	1094.5	1092.2	1089.8	1092.2
3365.3	32.5°	2911.1	2188.9	1293.7	1048.9	1065.1	1055.1	1052.8	1047.4	1038.1	1037.3
3553.0	35°	2927.3	2035.2	1194.9	1010.3	1042.7	1018.8	1020.3	1007.2	987.9	978.6
3801.7	37.5°	2960.6	1911.7	1096.8	991.7	1003.3	1002.6	996.4	974.0	940.0	910.6
4112.2	40°	3040.9	1875.4	1029.6	983.2	984.8	994.1	977.8	934.6	857.3	809.5
4427.3	42.5°	3166.8	1936.4	1014.9	962.4	972.4	981.7	950.0	849.6	794.8	766.2
4757.9	45°	3326.7	2043.0	1046.6	932.3	943.1	959.3	865.1	817.2	792.5	793.2
5085.4	47.5°	3529.0	2155.0	1105.3	906.0	900.6	909.9	808.7	779.3	745.4	753.8
5399.7	50°	3763.1	2268.5	1160.9	870.5	853.5	823.4	772.4	744.6	701.3	681.2
5703.3	52.5°	4016.4	2378.2	1183.3	827.2	802.5	767.8	747.7	713.7	661.2	627.9
5989.8	55°	4256.6	2477.8	1158.6	775.5	751.5	724.5	721.4	700.6	644.2	597.8
6244.7	57.5°	4483.7	2561.2	1096.8	723.0	699.8	683.6	704.4	694.4	623.3	563.8
6485.7	60°	4676.0	2618.4	1007.2	669.7	653.4	644.9	676.6	673.5	594.0	527.5
6702.0	62.5°	4829.0	2640.8	908.3	618.7	614.8	599.4	638.0	638.0	556.9	492.0
6892.0	65°	4948.7	2619.2	807.9	568.5	576.2	553.0	590.9	586.2	517.5	460.3
7110.6	67.5°	5054.5	2548.1	696.7	519.0	536.8	507.5	541.4	530.6	474.2	428.7
7299.8	70°	5101.6	2382.8	570.0	469.6	491.2	462.7	492.0	471.9	425.6	394.7
7092.0	72.5°	4723.1	1980.4	448.8	417.9	436.4	413.2	438.7	415.5	373.1	359.2
6124.2	75°	3907.5	1486.1	345.3	361.5	375.4	357.6	374.6	357.6	319.0	329.0
4523.9	77.5°	2837.7	1003.3	264.2	302.0	308.2	298.9	313.6	294.3	259.5	257.2
2254.6	80°	1411.1	587.8	207.0	238.7	236.3	230.2	247.2	237.9	208.5	220.9
608.6	82.5°	408.6	251.8	150.6	167.6	163.0	164.5	176.9	181.5	271.9	269.6
189.2	85°	128.2	98.9	90.4	93.5	88.8	91.1	104.3	207.0	191.6	112.0
58.7	87.5°	33.2	34.0	22.4	23.9	24.7	29.4	33.2	125.9	60.2	39.4
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>
2635.4
2509.5
2239.1
1866.1
1576.4
1442.0
1345.5
1312.3
1302.2
1264.4
1201.1
1149.3
1100.6
1047.4
987.9
920.7
815.6
766.2
797.1
775.5
686.7
627.2
597.8
560.8
525.2
489.7
457.3
425.6
388.5
347.6
300.5
245.6
218.6
275.7
121.3
41.7
0.0

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