

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: P947043

Luminaire Tested: **GALN-SB2C-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947043
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-SB2C-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14637 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

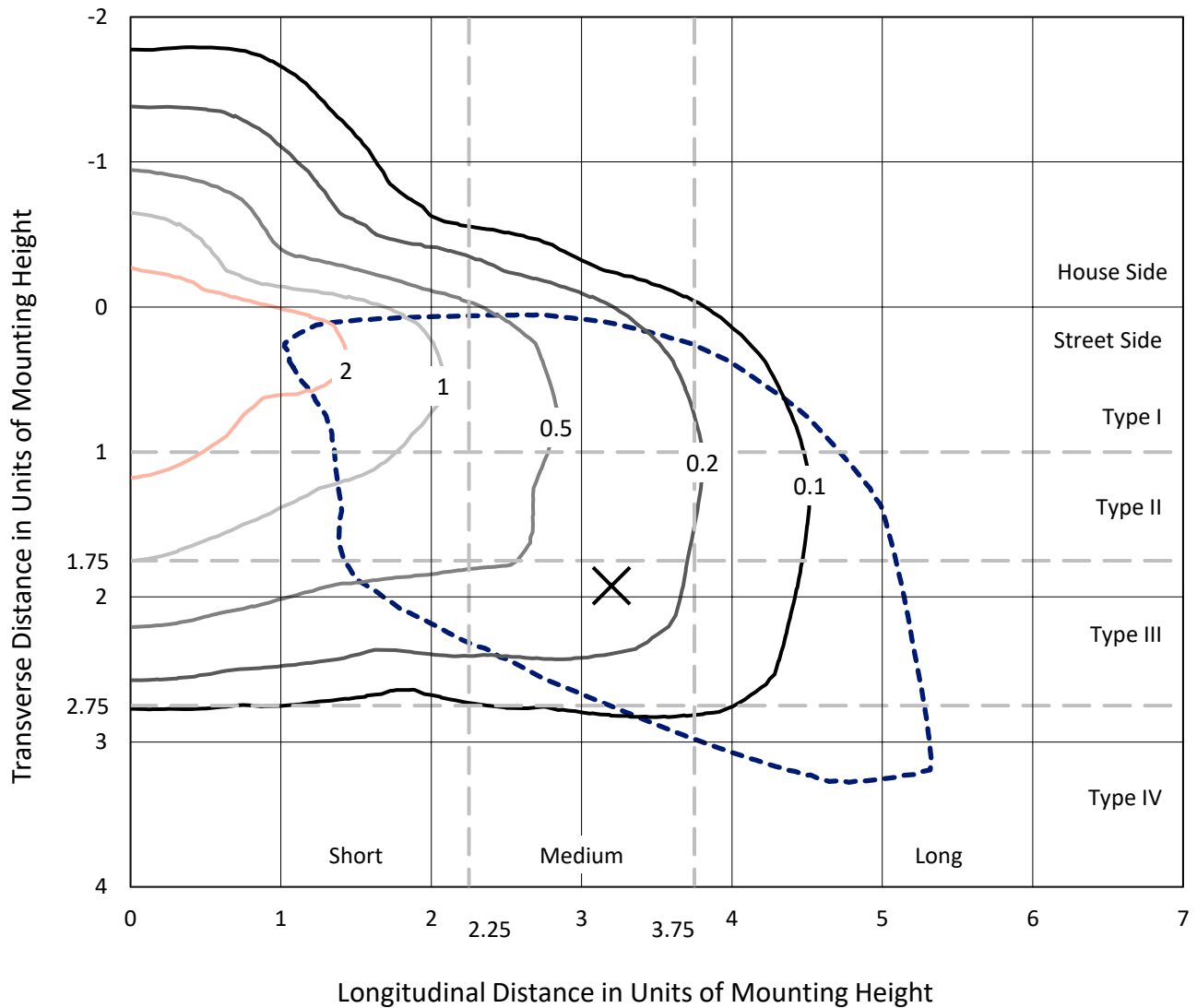
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

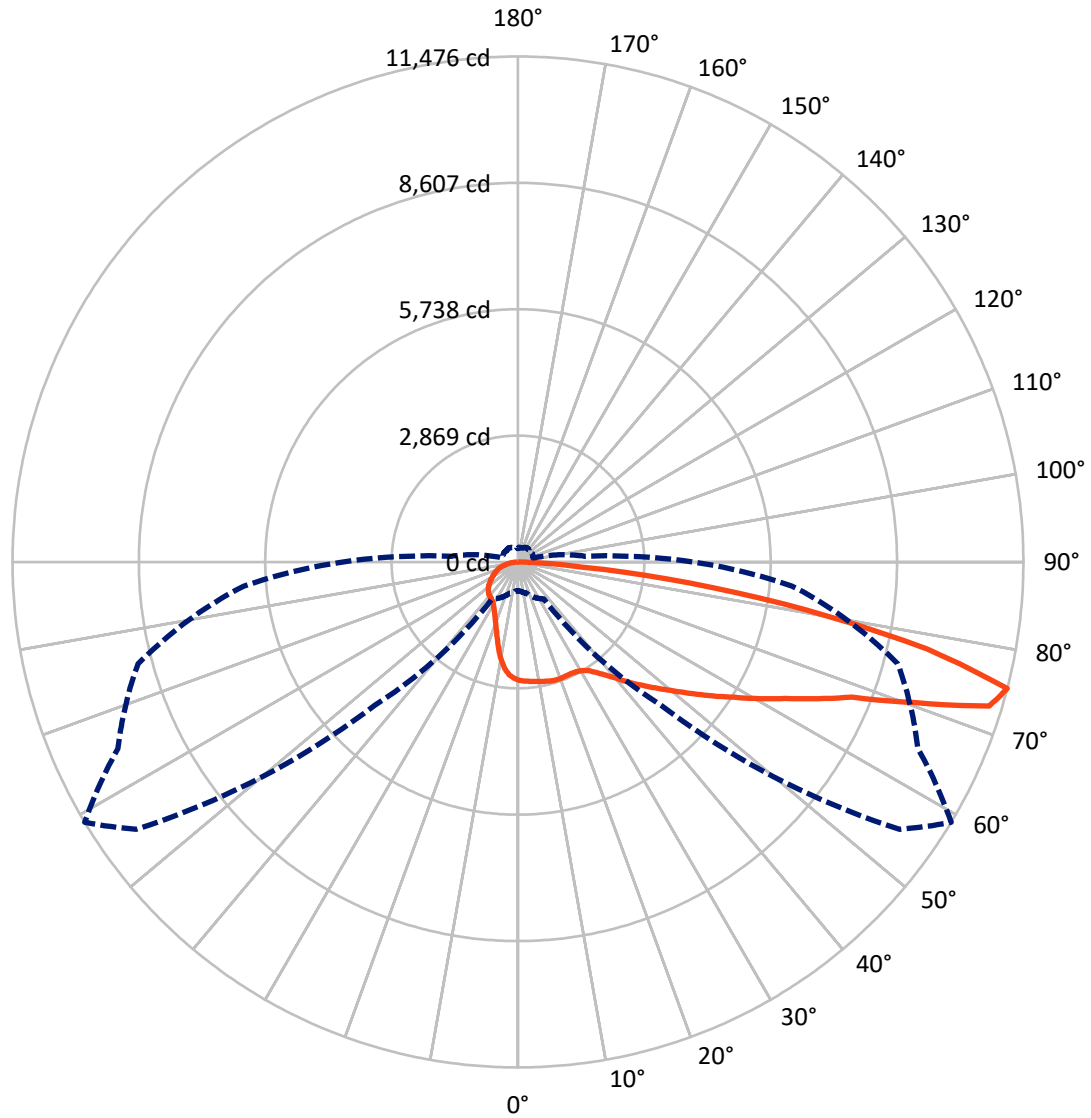
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2745.3	0.0	2745.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11891.7	0.0	11891.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	14637.0	0.0	14637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.6
10°-20°	615.7	4.2
20°-30°	935.3	6.4
30°-40°	1390.2	9.5
40°-50°	2067.6	14.1
50°-60°	2806.5	19.2
60°-70°	3426.2	23.4
70°-80°	2688.8	18.4
80°-90°	465.8	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°	14637.0	100.0
0°-180°	14637.0	100.0



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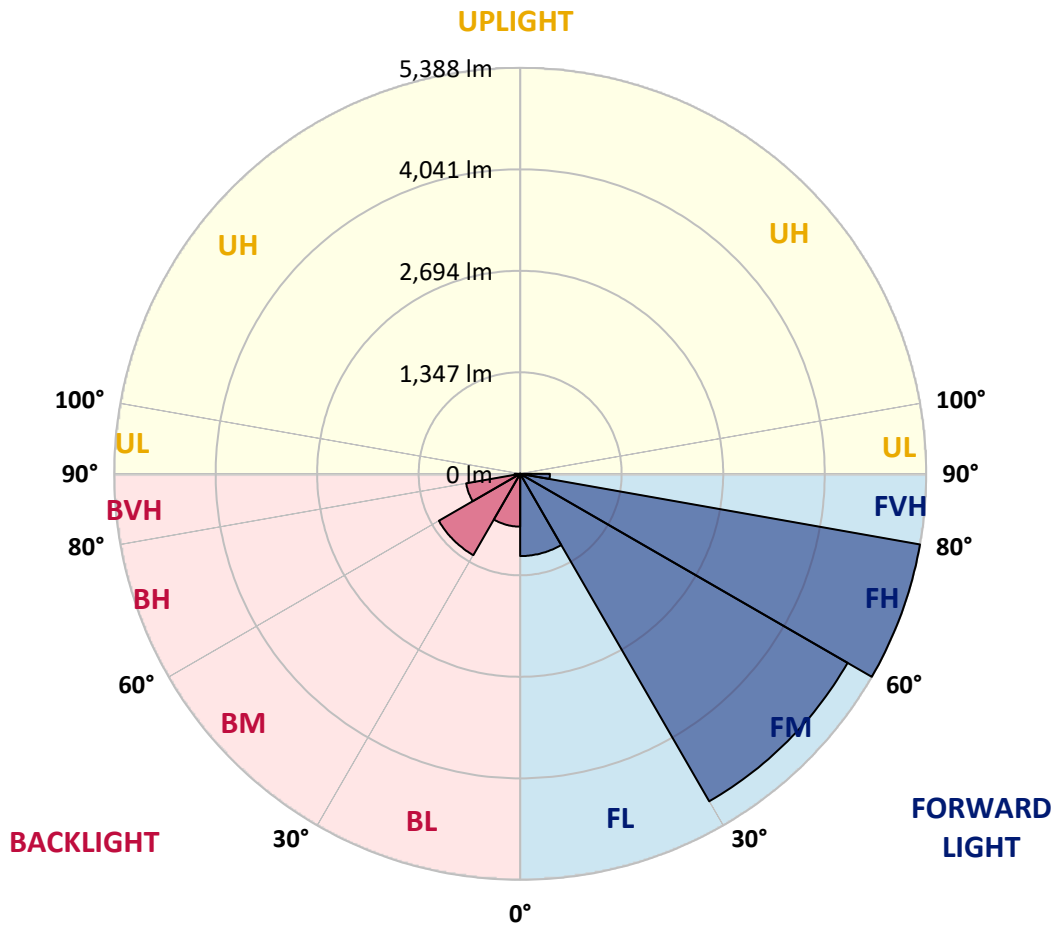
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.3	7.5			
FM (30°-60°)	5018.2	34.3			
FH (60°-80°)	5387.7	36.8			G3/7500
FVH (80°-90°)	394.5	2.7			G3/500
BL (0°-30°)	700.6	4.8	B2/1000		
BM (30°-60°)	1246.1	8.5	B2/2500		
BH (60°-80°)	727.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	71.3	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°	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6
2.5°	2709.4	2700.0	2709.4	2705.5	2703.9	2700.8	2701.5	2707.1	2703.9	2707.8
5°	2691.3	2685.8	2695.3	2692.9	2703.1	2704.7	2714.9	2721.2	2725.2	2726.0
7.5°	2661.4	2655.9	2669.3	2680.3	2702.3	2708.6	2729.9	2740.1	2745.6	2755.1
10°	2551.9	2549.6	2582.7	2624.4	2676.4	2708.6	2740.9	2758.2	2766.9	2792.1
12.5°	2358.2	2361.4	2404.7	2485.0	2589.0	2692.9	2753.5	2778.7	2792.1	2823.6
15°	2173.2	2172.4	2219.7	2305.5	2451.2	2623.6	2759.8	2803.1	2826.0	2872.4
17.5°	2066.1	2063.0	2096.0	2161.4	2296.8	2517.3	2744.1	2816.5	2865.3	2923.6
20°	2046.4	2040.1	2057.5	2089.7	2185.8	2400.8	2703.1	2816.5	2896.8	2972.4
22.5°	2118.1	2107.9	2100.8	2096.8	2139.3	2304.7	2656.7	2807.1	2943.3	3042.5
25°	2262.2	2246.4	2210.2	2174.8	2162.2	2261.4	2615.7	2804.7	3012.6	3137.0
27.5°	2495.3	2475.6	2402.3	2317.3	2240.9	2283.4	2597.6	2818.9	3088.9	3237.0
30°	2784.2	2763.0	2670.8	2540.1	2403.1	2365.3	2620.4	2860.6	3186.6	3370.0
32.5°	3043.3	3019.7	2940.9	2807.8	2622.8	2507.1	2692.9	2940.1	3340.1	3555.1
35°	3273.2	3245.6	3174.8	3051.9	2892.1	2706.3	2823.6	3081.1	3558.2	3855.9
37.5°	3498.4	3466.1	3388.9	3259.0	3147.2	2971.6	3003.9	3262.2	3848.0	4221.2
40°	3750.4	3703.9	3610.2	3481.9	3373.2	3282.6	3240.9	3484.2	4142.5	4629.1
42.5°	3994.5	3950.4	3838.5	3729.1	3592.9	3566.9	3515.7	3744.1	4464.5	5077.1
45°	4257.4	4204.7	4069.3	3930.7	3844.8	3755.9	3781.9	4003.9	4780.3	5533.8
47.5°	4503.9	4444.8	4285.0	4130.7	4083.4	3914.9	4025.9	4289.7	5108.6	5996.8
50°	4637.0	4578.7	4445.6	4306.3	4269.3	4111.0	4290.5	4603.9	5452.7	6458.2
52.5°	4748.0	4685.0	4511.0	4433.8	4422.8	4324.4	4616.5	4962.9	5796.8	6866.1
55°	4866.1	4796.0	4574.0	4504.7	4555.1	4563.7	5003.1	5370.0	6160.6	7263.7
57.5°	5002.3	4913.3	4634.6	4564.5	4684.2	4844.0	5447.2	5792.1	6518.0	7632.2
60°	5130.7	5040.9	4751.1	4659.8	4823.6	5169.2	5956.6	6303.1	6922.8	7960.6
62.5°	5155.9	5081.8	4844.0	4843.3	5012.6	5548.8	6559.8	6818.8	7276.3	8285.0
65°	4719.6	4673.2	4532.2	4836.2	5283.4	6095.2	7231.4	7478.7	7725.9	8568.4
67.5°	3592.1	3598.4	3588.2	4174.8	5064.5	6880.2	8203.9	8185.0	8281.0	8886.5
70°	1642.5	1679.5	1920.5	2881.9	4057.4	6970.8	9811.7	9566.8	8977.9	9298.3
72.5°	887.4	915.7	1014.2	1396.0	2439.3	6197.6	11013.3	11187.3	9904.6	9575.5
75°	651.2	666.9	735.4	887.4	1024.4	4606.3	10582.6	11475.5	10020.4	8929.0
77.5°	487.4	494.5	550.4	703.1	524.4	2428.3	8455.8	9503.8	8577.9	7336.2
80°	353.5	361.4	403.1	527.6	367.7	888.2	5806.2	6670.8	5874.7	4676.3
82.5°	244.1	247.2	265.4	359.1	256.7	344.9	3294.5	3911.8	3279.5	1640.9
85°	147.2	151.2	159.1	209.4	145.7	163.8	1422.0	1470.9	980.3	392.1
87.5°	60.6	64.6	70.9	88.2	57.5	45.7	234.6	294.5	183.5	115.0
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°
2686.6	0°	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6
2694.5	2.5°	2690.5	2685.0	2670.1	2649.6	2630.7	2607.1	2596.8	2588.2	2580.3	2565.3
2715.7	5°	2707.1	2692.1	2651.9	2600.0	2540.9	2476.4	2413.4	2370.1	2333.0	2305.5
2740.1	7.5°	2732.3	2703.9	2630.7	2524.4	2389.0	2250.4	2125.2	2036.2	1969.3	1944.9
2774.8	10°	2758.2	2724.4	2596.8	2409.4	2175.6	1962.2	1796.0	1704.7	1651.2	1633.8
2815.7	12.5°	2788.9	2739.3	2544.1	2249.6	1937.0	1703.1	1558.3	1504.7	1477.2	1467.7
2866.1	15°	2833.8	2751.9	2464.5	2049.6	1709.4	1514.2	1420.5	1383.5	1369.3	1368.5
2918.1	17.5°	2867.7	2754.3	2340.9	1835.4	1534.6	1400.0	1322.8	1308.6	1318.1	1332.3
2969.3	20°	2905.5	2733.0	2178.7	1640.1	1411.8	1300.0	1267.7	1277.2	1300.0	1320.5
3037.0	22.5°	2932.3	2694.5	1982.7	1488.2	1305.5	1242.5	1240.9	1260.6	1273.2	1283.5
3116.5	25°	2955.9	2629.1	1774.8	1360.6	1218.1	1207.9	1225.2	1218.9	1210.2	1218.9
3196.0	27.5°	2973.2	2526.0	1589.0	1248.8	1156.7	1184.2	1174.0	1159.8	1159.0	1163.8
3289.7	30°	2967.7	2388.2	1436.2	1142.5	1113.4	1140.1	1115.7	1113.4	1111.0	1113.4
3430.7	32.5°	2967.7	2231.5	1318.9	1069.3	1085.8	1075.6	1073.2	1067.7	1058.3	1057.5
3622.0	35°	2984.2	2074.8	1218.1	1029.9	1063.0	1038.6	1040.1	1026.8	1007.1	997.6
3875.6	37.5°	3018.1	1948.8	1118.1	1011.0	1022.8	1022.0	1015.7	992.9	958.3	928.3
4192.1	40°	3100.0	1911.8	1049.6	1002.4	1003.9	1013.4	996.8	952.7	874.0	825.2
4513.3	42.5°	3228.3	1974.0	1034.6	981.1	991.3	1000.8	968.5	866.1	810.2	781.1
4850.3	45°	3391.3	2082.7	1066.9	950.4	961.4	977.9	881.9	833.1	807.9	808.7
5184.2	47.5°	3597.6	2196.8	1126.8	923.6	918.1	927.6	824.4	794.5	759.8	768.5
5504.7	50°	3836.2	2312.6	1183.5	887.4	870.1	839.4	787.4	759.0	715.0	694.5
5814.1	52.5°	4094.4	2424.4	1206.3	843.3	818.1	782.7	762.2	727.6	674.0	640.2
6106.2	55°	4339.3	2526.0	1181.1	790.5	766.1	738.6	735.4	714.2	656.7	609.4
6366.1	57.5°	4570.8	2611.0	1118.1	737.0	713.4	696.8	718.1	707.9	635.4	574.8
6611.7	60°	4766.9	2669.3	1026.8	682.7	666.1	657.5	689.8	686.6	605.5	537.8
6832.2	62.5°	4922.8	2692.1	926.0	630.7	626.8	611.0	650.4	650.4	567.7	501.6
7025.9	65°	5044.8	2670.1	823.6	579.5	587.4	563.8	602.4	597.6	527.6	469.3
7248.8	67.5°	5152.7	2597.6	710.2	529.1	547.2	517.3	552.0	540.9	483.5	437.0
7441.7	70°	5200.7	2429.1	581.1	478.7	500.8	471.6	501.6	481.1	433.9	402.4
7229.9	72.5°	4814.9	2018.9	457.5	426.0	444.9	421.3	447.2	423.6	380.3	366.1
6243.2	75°	3983.4	1514.9	352.0	368.5	382.7	364.6	381.9	364.6	325.2	335.4
4611.8	77.5°	2892.9	1022.8	269.3	307.9	314.2	304.7	319.7	300.0	264.6	262.2
2298.4	80°	1438.6	599.2	211.0	243.3	240.9	234.6	252.0	242.5	212.6	225.2
620.5	82.5°	416.5	256.7	153.5	170.9	166.1	167.7	180.3	185.0	277.2	274.8
192.9	85°	130.7	100.8	92.1	95.3	90.6	92.9	106.3	211.0	195.3	114.2
59.8	87.5°	33.9	34.6	22.8	24.4	25.2	29.9	33.9	128.3	61.4	40.2
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>
2686.6
2558.2
2282.7
1902.3
1607.1
1470.1
1371.6
1337.8
1327.5
1289.0
1224.4
1171.6
1122.0
1067.7
1007.1
938.6
831.5
781.1
812.6
790.5
700.0
639.4
609.4
571.6
535.4
499.2
466.1
433.9
396.1
354.3
306.3
250.4
222.8
281.1
123.6
42.5
0.0

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