

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: P947211

Luminaire Tested: **GALN-SB2C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947211
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-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 14001 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

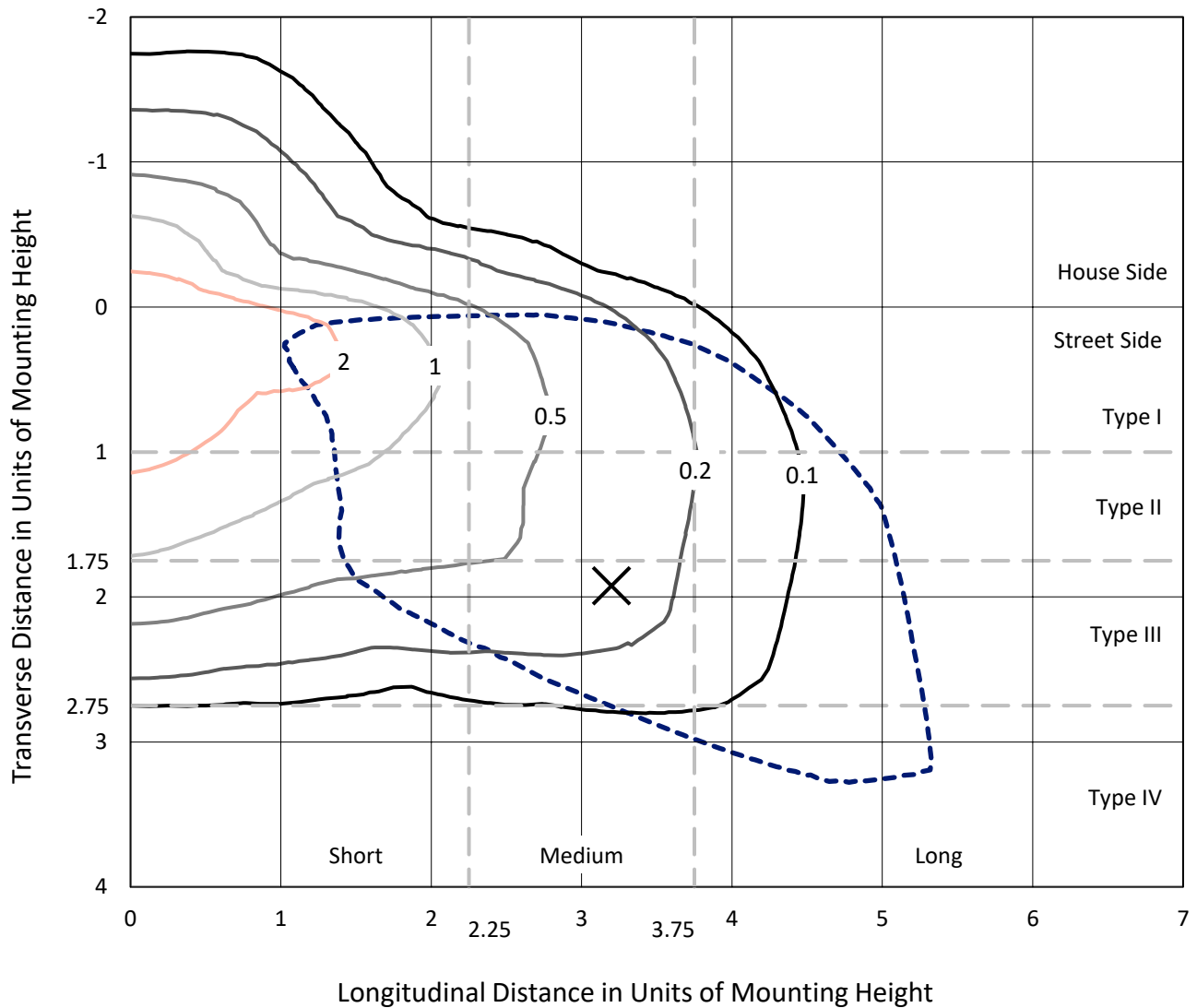
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

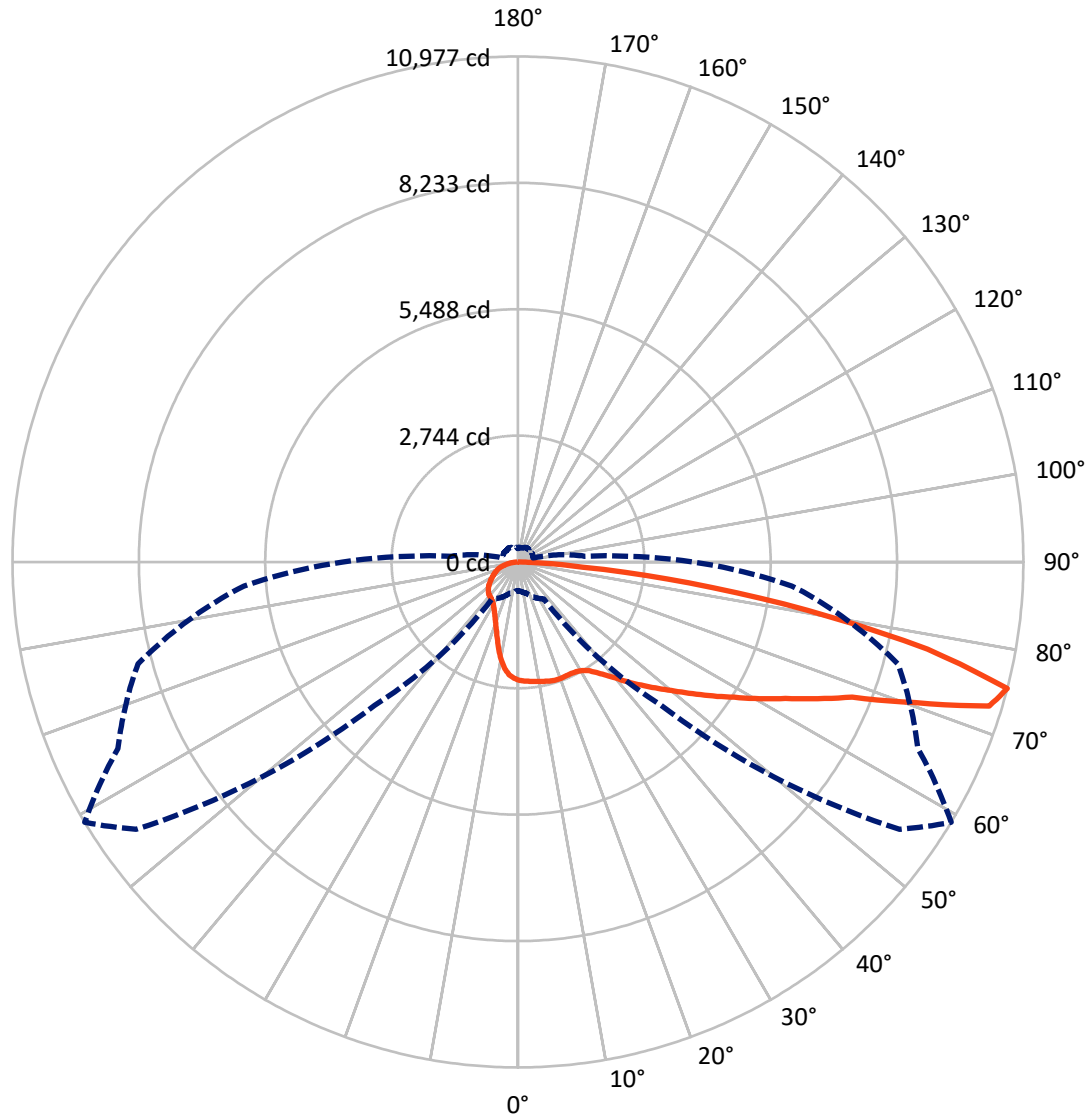
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	2626.0	0.0	2626.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11375.0	0.0	11375.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	14001.0	0.0	14001.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	1.6
10°-20°	589.0	4.2
20°-30°	894.6	6.4
30°-40°	1329.8	9.5
40°-50°	1977.7	14.1
50°-60°	2684.5	19.2
60°-70°	3277.3	23.4
70°-80°	2572.0	18.4
80°-90°	445.5	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°	14001.0	100.0
0°-180°	14001.0	100.0



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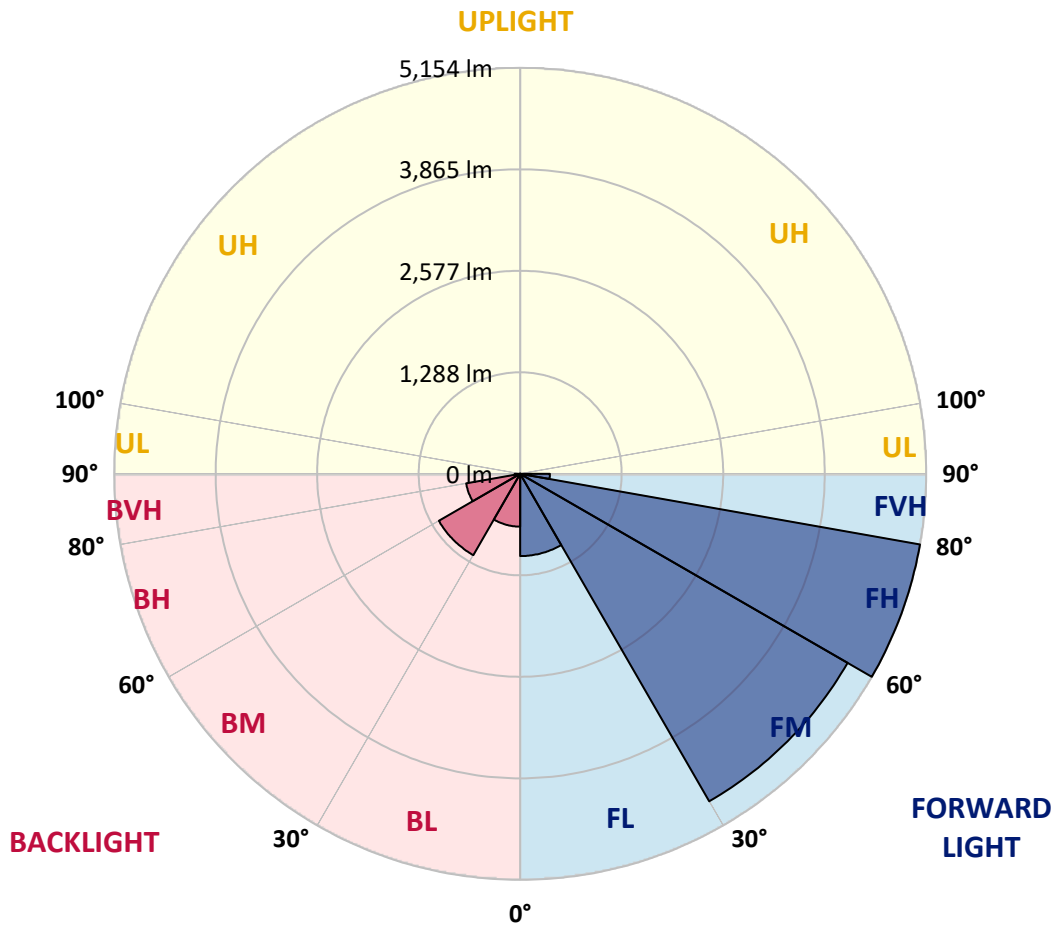
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.9	7.5			
FM (30°-60°)	4800.1	34.3			
FH (60°-80°)	5153.6	36.8			G3/7500
FVH (80°-90°)	377.3	2.7			G3/500
BL (0°-30°)	670.1	4.8	B2/1000		
BM (30°-60°)	1191.9	8.5	B2/2500		
BH (60°-80°)	695.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	68.2	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°	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9
2.5°	2591.7	2582.7	2591.7	2587.9	2586.4	2583.4	2584.2	2589.4	2586.4	2590.2
5°	2574.4	2569.1	2578.1	2575.9	2585.7	2587.2	2597.0	2603.0	2606.8	2607.5
7.5°	2545.8	2540.5	2553.3	2563.8	2584.9	2590.9	2611.3	2621.1	2626.3	2635.4
10°	2441.1	2438.8	2470.4	2510.4	2560.1	2590.9	2621.8	2638.4	2646.7	2670.8
12.5°	2255.8	2258.8	2300.2	2377.0	2476.5	2575.9	2633.9	2658.0	2670.8	2700.9
15°	2078.8	2078.0	2123.2	2205.3	2344.7	2509.6	2639.9	2681.3	2703.2	2747.6
17.5°	1976.3	1973.3	2005.0	2067.5	2197.0	2407.9	2624.8	2694.1	2740.8	2796.6
20°	1957.5	1951.5	1968.1	1998.9	2090.8	2296.4	2585.7	2694.1	2771.0	2843.3
22.5°	2026.1	2016.3	2009.5	2005.7	2046.4	2204.6	2541.2	2685.1	2815.4	2910.3
25°	2163.9	2148.8	2114.2	2080.3	2068.2	2163.1	2502.1	2682.8	2881.7	3000.7
27.5°	2386.8	2368.0	2298.0	2216.6	2143.6	2184.2	2484.7	2696.4	2954.7	3096.3
30°	2663.2	2642.9	2554.8	2429.8	2298.7	2262.6	2506.6	2736.3	3048.1	3223.6
32.5°	2911.0	2888.4	2813.1	2685.8	2508.8	2398.1	2575.9	2812.4	3195.0	3400.6
35°	3131.0	3104.6	3036.8	2919.3	2766.4	2588.7	2700.9	2947.2	3403.6	3688.3
37.5°	3346.4	3315.5	3241.7	3117.4	3010.5	2842.5	2873.4	3120.4	3680.8	4037.8
40°	3587.4	3543.0	3453.3	3330.6	3226.6	3140.0	3100.1	3332.8	3962.5	4427.9
42.5°	3820.9	3778.7	3671.8	3567.1	3436.8	3411.9	3363.0	3581.4	4270.5	4856.5
45°	4072.4	4022.0	3892.4	3759.9	3677.8	3592.7	3617.5	3829.9	4572.6	5293.4
47.5°	4308.2	4251.7	4098.8	3951.2	3906.0	3744.8	3851.0	4103.3	4886.6	5736.2
50°	4435.5	4379.7	4252.5	4119.1	4083.7	3932.4	4104.1	4403.8	5215.8	6177.6
52.5°	4541.7	4481.4	4315.0	4241.2	4230.6	4136.5	4415.9	4747.3	5544.9	6567.7
55°	4654.7	4587.6	4375.2	4308.9	4357.2	4365.4	4785.7	5136.7	5892.9	6948.1
57.5°	4785.0	4699.8	4433.2	4366.2	4480.7	4633.6	5210.5	5540.4	6234.8	7300.6
60°	4907.7	4821.9	4544.7	4457.3	4614.0	4944.6	5697.8	6029.2	6622.0	7614.7
62.5°	4931.8	4861.0	4633.6	4632.8	4794.7	5307.7	6274.7	6522.5	6960.1	7925.0
65°	4514.6	4470.1	4335.3	4626.0	5053.8	5830.4	6917.2	7153.7	7390.2	8196.1
67.5°	3436.0	3442.0	3432.2	3993.4	4844.5	6581.3	7847.4	7829.3	7921.2	8500.4
70°	1571.1	1606.5	1837.0	2756.6	3881.1	6667.9	9385.4	9151.1	8587.8	8894.3
72.5°	848.8	875.9	970.1	1335.4	2333.4	5928.3	10534.7	10701.2	9474.3	9159.4
75°	622.9	637.9	703.5	848.8	979.9	4406.1	10122.7	10976.9	9585.0	8541.1
77.5°	466.2	473.0	526.5	672.6	501.6	2322.8	8088.4	9090.9	8205.1	7017.4
80°	338.2	345.7	385.6	504.6	351.7	849.6	5554.0	6380.9	5619.5	4473.1
82.5°	233.5	236.5	253.8	343.5	245.5	329.9	3151.3	3741.8	3137.0	1569.6
85°	140.8	144.6	152.1	200.3	139.3	156.7	1360.2	1406.9	937.7	375.1
87.5°	58.0	61.8	67.8	84.4	55.0	43.7	224.4	281.7	175.5	110.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947211
 CATALOG NUMBER: GALN-SB2C-850-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2569.9	0°	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9
2577.4	2.5°	2573.6	2568.3	2554.0	2534.5	2516.4	2493.8	2484.0	2475.7	2468.2	2453.9
2597.7	5°	2589.4	2575.1	2536.7	2487.0	2430.5	2368.8	2308.5	2267.1	2231.7	2205.3
2621.1	7.5°	2613.5	2586.4	2516.4	2414.7	2285.2	2152.6	2032.8	1947.7	1883.7	1860.4
2654.2	10°	2638.4	2606.0	2484.0	2304.7	2081.0	1876.9	1718.0	1630.6	1579.4	1562.8
2693.4	12.5°	2667.8	2620.3	2433.5	2151.8	1852.8	1629.1	1490.5	1439.3	1413.0	1403.9
2741.6	15°	2710.7	2632.4	2357.5	1960.5	1635.2	1448.4	1358.7	1323.3	1309.8	1309.0
2791.3	17.5°	2743.1	2634.6	2239.2	1755.7	1467.9	1339.2	1265.3	1251.8	1260.8	1274.4
2840.2	20°	2779.2	2614.3	2084.1	1568.9	1350.5	1243.5	1212.6	1221.7	1243.5	1263.1
2905.0	22.5°	2804.8	2577.4	1896.5	1423.5	1248.8	1188.5	1187.0	1205.8	1217.9	1227.7
2981.1	25°	2827.4	2514.9	1697.7	1301.5	1165.2	1155.4	1171.9	1165.9	1157.6	1165.9
3057.2	27.5°	2844.0	2416.2	1519.9	1194.5	1106.4	1132.8	1123.0	1109.4	1108.7	1113.2
3146.8	30°	2838.7	2284.4	1373.8	1092.9	1065.0	1090.6	1067.3	1065.0	1062.7	1065.0
3281.6	32.5°	2838.7	2134.5	1261.6	1022.8	1038.6	1028.8	1026.6	1021.3	1012.3	1011.5
3464.6	35°	2854.6	1984.6	1165.2	985.2	1016.8	993.4	995.0	982.1	963.3	954.3
3707.2	37.5°	2886.9	1864.1	1069.5	967.1	978.4	977.6	971.6	949.8	916.6	888.0
4009.9	40°	2965.3	1828.7	1004.0	958.8	960.3	969.3	953.5	911.3	836.0	789.3
4317.2	42.5°	3088.0	1888.2	989.7	938.5	948.3	957.3	926.4	828.5	775.0	747.2
4639.6	45°	3243.9	1992.2	1020.6	909.1	919.6	935.5	843.6	796.9	772.8	773.5
4958.9	47.5°	3441.3	2101.4	1077.8	883.5	878.2	887.2	788.6	760.0	726.8	735.1
5265.5	50°	3669.5	2212.1	1132.0	848.8	832.3	802.9	753.2	726.1	683.9	664.3
5561.5	52.5°	3916.5	2319.0	1153.9	806.7	782.6	748.7	729.1	695.9	644.7	612.3
5840.9	55°	4150.8	2416.2	1129.8	756.2	732.8	706.5	703.5	683.1	628.2	583.0
6089.5	57.5°	4372.2	2497.5	1069.5	705.0	682.4	666.6	686.9	677.1	607.8	549.8
6324.5	60°	4559.8	2553.3	982.1	653.0	637.2	628.9	659.8	656.8	579.2	514.4
6535.3	62.5°	4708.9	2575.1	885.7	603.3	599.5	584.5	622.1	622.1	543.0	479.8
6720.6	65°	4825.6	2554.0	787.8	554.3	561.9	539.3	576.2	571.7	504.6	448.9
6933.8	67.5°	4928.8	2484.7	679.4	506.1	523.5	494.8	528.0	517.4	462.5	418.0
7118.3	70°	4974.8	2323.6	555.8	457.9	479.0	451.2	479.8	460.2	415.0	384.9
6915.7	72.5°	4605.7	1931.2	437.6	407.5	425.5	403.0	427.8	405.2	363.8	350.2
5972.0	75°	3810.3	1449.1	336.7	352.5	366.0	348.7	365.3	348.7	311.1	320.9
4411.4	77.5°	2767.2	978.4	257.6	294.5	300.5	291.5	305.8	287.0	253.1	250.8
2198.5	80°	1376.1	573.2	201.9	232.7	230.5	224.4	241.0	232.0	203.4	215.4
593.5	82.5°	398.4	245.5	146.9	163.4	158.9	160.4	172.5	177.0	265.1	262.9
184.5	85°	125.0	96.4	88.1	91.1	86.6	88.9	101.7	201.9	186.8	109.2
57.2	87.5°	32.4	33.1	21.8	23.3	24.1	28.6	32.4	122.8	58.7	38.4
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>
2569.9
2447.1
2183.5
1819.7
1537.2
1406.2
1312.0
1279.7
1269.9
1233.0
1171.2
1120.7
1073.3
1021.3
963.3
897.8
795.4
747.2
777.3
756.2
669.6
611.6
583.0
546.8
512.2
477.5
445.9
415.0
378.8
338.9
293.0
239.5
213.2
268.9
118.2
40.7
0.0

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