

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: P949290

Luminaire Tested: **GALN-SB4A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949290
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-SB4A-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15788 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

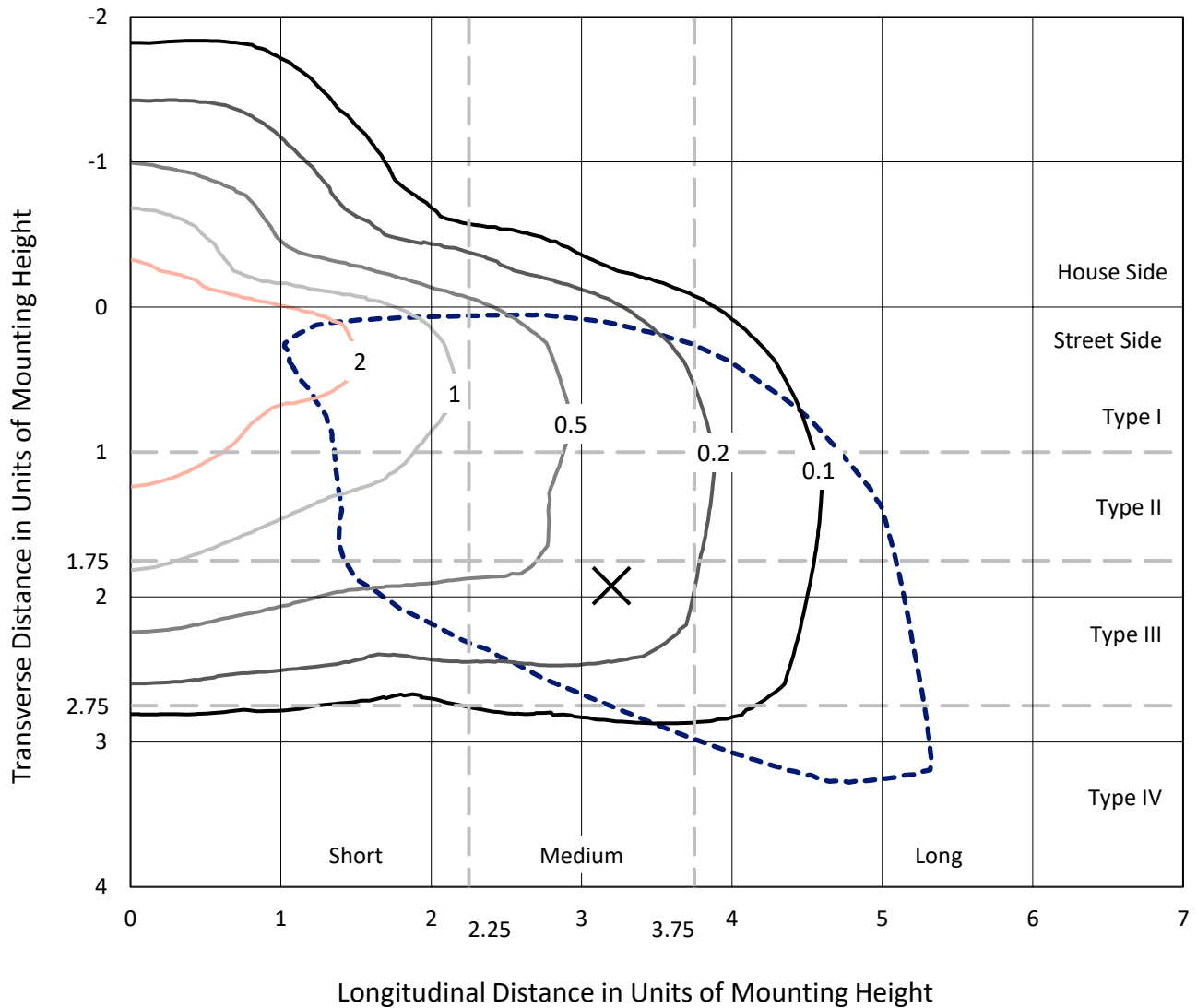
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

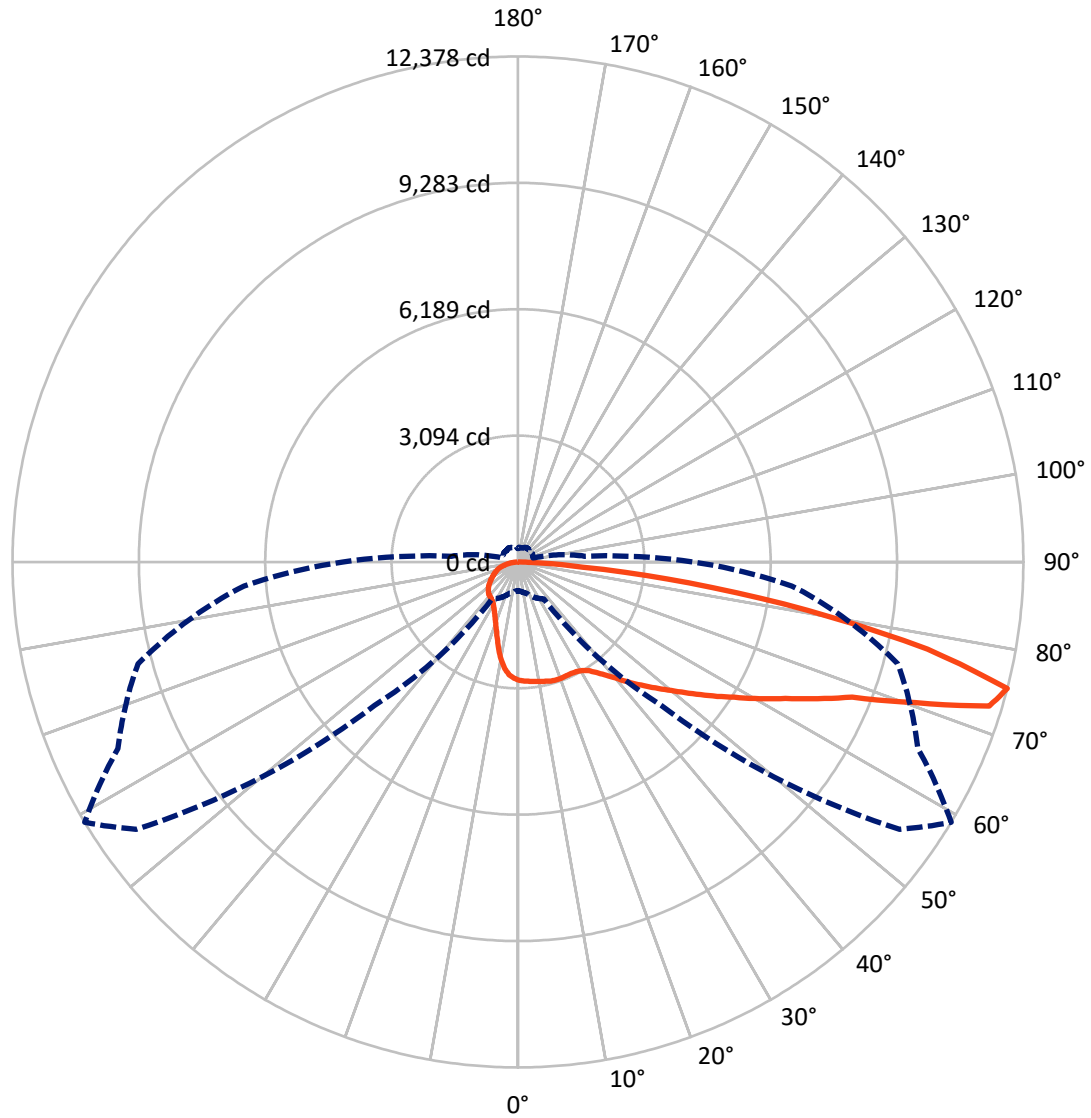
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2961.1	0.0	2961.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12826.9	0.0	12826.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	15788.0	0.0	15788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.6
10°-20°	664.2	4.2
20°-30°	1008.8	6.4
30°-40°	1499.6	9.5
40°-50°	2230.1	14.1
50°-60°	3027.1	19.2
60°-70°	3695.6	23.4
70°-80°	2900.3	18.4
80°-90°	502.4	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°	15788.0	100.0
0°-180°	15788.0	100.0

Coefficient of Utilization



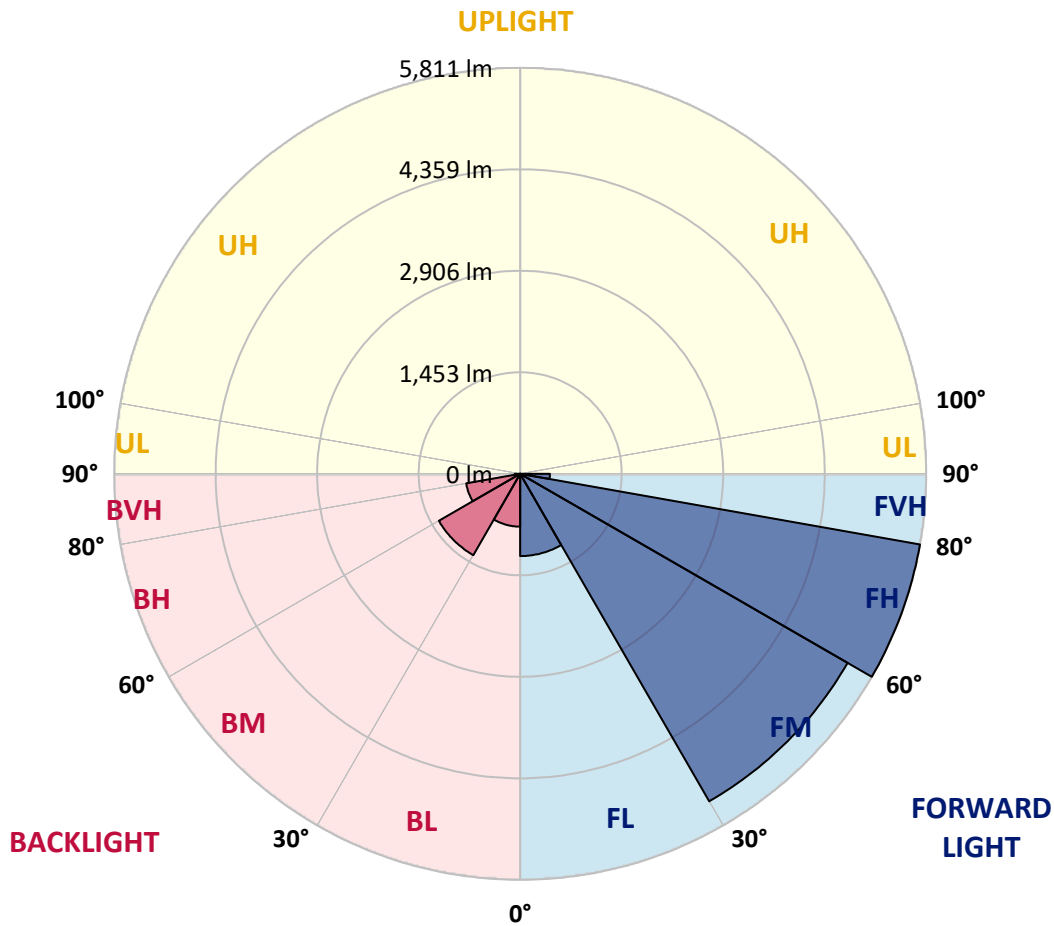
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.2	7.5			
FM (30°-60°)	5412.8	34.3			
FH (60°-80°)	5811.4	36.8			G3/7500
FVH (80°-90°)	425.5	2.7			G3/500
BL (0°-30°)	755.7	4.8	B2/1000		
BM (30°-60°)	1344.1	8.5	B2/2500		
BH (60°-80°)	784.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	76.9	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°	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9
2.5°	2922.5	2912.3	2922.5	2918.2	2916.5	2913.1	2914.0	2919.9	2916.5	2920.8
5°	2902.9	2897.0	2907.2	2904.6	2915.7	2917.4	2928.4	2935.2	2939.5	2940.3
7.5°	2870.7	2864.7	2879.2	2891.1	2914.8	2921.6	2944.6	2955.6	2961.6	2971.7
10°	2752.6	2750.1	2785.7	2830.8	2886.8	2921.6	2956.5	2975.1	2984.5	3011.7
12.5°	2543.7	2547.1	2593.8	2680.4	2792.5	2904.6	2970.0	2997.2	3011.7	3045.6
15°	2344.1	2343.3	2394.2	2486.8	2643.9	2829.9	2976.8	3023.6	3048.2	3098.3
17.5°	2228.6	2225.2	2260.9	2331.4	2477.4	2715.3	2959.9	3038.0	3090.6	3153.5
20°	2207.4	2200.6	2219.3	2254.1	2357.7	2589.6	2915.7	3038.0	3124.6	3206.2
22.5°	2284.6	2273.6	2266.0	2261.7	2307.6	2485.9	2865.6	3027.8	3174.7	3281.7
25°	2440.1	2423.1	2384.0	2345.8	2332.2	2439.2	2821.4	3025.2	3249.5	3383.7
27.5°	2691.5	2670.2	2591.3	2499.5	2417.1	2463.0	2801.9	3040.5	3331.9	3491.5
30°	3003.2	2980.2	2880.9	2739.9	2592.1	2551.3	2826.5	3085.6	3437.2	3635.1
32.5°	3282.6	3257.1	3172.2	3028.6	2829.1	2704.2	2904.6	3171.3	3602.8	3834.6
35°	3530.6	3500.9	3424.4	3291.9	3119.5	2919.1	3045.6	3323.4	3838.0	4159.1
37.5°	3773.5	3738.7	3655.4	3515.3	3394.7	3205.3	3240.1	3518.7	4150.6	4553.2
40°	4045.3	3995.2	3894.1	3755.7	3638.5	3540.8	3495.8	3758.2	4468.2	4993.1
42.5°	4308.6	4261.0	4140.4	4022.3	3875.4	3847.4	3792.2	4038.5	4815.6	5476.4
45°	4592.2	4535.3	4389.2	4239.8	4147.2	4051.2	4079.2	4318.8	5156.2	5969.0
47.5°	4858.1	4794.4	4622.0	4455.5	4404.5	4222.8	4342.5	4627.1	5510.3	6468.4
50°	5001.6	4938.7	4795.2	4644.9	4605.0	4434.3	4627.9	4965.9	5881.5	6966.1
52.5°	5121.4	5053.4	4865.7	4782.5	4770.6	4664.4	4979.5	5353.2	6252.6	7406.0
55°	5248.7	5173.2	4933.7	4858.9	4913.3	4922.6	5396.5	5792.3	6645.0	7834.9
57.5°	5395.7	5299.7	4999.0	4923.5	5052.6	5225.0	5875.5	6247.5	7030.6	8232.4
60°	5534.1	5437.3	5124.7	5026.2	5202.9	5575.7	6425.0	6798.7	7467.2	8586.5
62.5°	5561.3	5481.5	5225.0	5224.1	5406.7	5985.1	7075.6	7355.0	7848.5	8936.5
65°	5090.8	5040.7	4888.6	5216.5	5698.9	6574.5	7800.1	8066.8	8333.4	9242.2
67.5°	3874.6	3881.4	3870.3	4503.1	5462.8	7421.3	8849.0	8828.6	8932.2	9585.3
70°	1771.7	1811.6	2071.5	3108.5	4376.5	7519.0	10583.3	10319.1	9683.9	10029.5
72.5°	957.2	987.7	1093.9	1505.8	2631.2	6684.9	11879.3	12067.0	10683.5	10328.5
75°	702.4	719.4	793.3	957.2	1105.0	4968.5	11414.8	12377.9	10808.3	9631.2
77.5°	525.7	533.4	593.7	758.4	565.6	2619.3	9120.8	10251.2	9252.4	7913.0
80°	381.3	389.8	434.8	569.0	396.6	958.0	6262.8	7195.4	6336.7	5044.1
82.5°	263.3	266.7	286.2	387.3	276.9	372.0	3553.5	4219.4	3537.4	1770.0
85°	158.8	163.1	171.6	225.9	157.1	176.7	1533.9	1586.5	1057.4	423.0
87.5°	65.4	69.6	76.4	95.1	62.0	49.3	253.1	317.6	197.9	124.0
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°
2897.9	0°	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9	2897.9
2906.3	2.5°	2902.1	2896.2	2880.0	2857.9	2837.6	2812.1	2801.0	2791.7	2783.2	2767.1
2929.3	5°	2919.9	2903.8	2860.5	2804.4	2740.7	2671.1	2603.1	2556.4	2516.5	2486.8
2955.6	7.5°	2947.1	2916.5	2837.6	2722.9	2576.8	2427.3	2292.3	2196.3	2124.1	2097.8
2993.0	10°	2975.1	2938.6	2801.0	2598.9	2346.6	2116.5	1937.3	1838.8	1781.0	1762.3
3037.1	12.5°	3008.3	2954.8	2744.1	2426.5	2089.3	1837.1	1680.8	1623.0	1593.3	1583.1
3091.5	15°	3056.7	2968.3	2658.3	2210.8	1843.9	1633.2	1532.2	1492.2	1477.0	1476.1
3147.5	17.5°	3093.2	2970.9	2525.0	1979.7	1655.3	1510.1	1426.8	1411.6	1421.7	1437.0
3202.8	20°	3134.0	2948.0	2350.0	1769.1	1522.8	1402.2	1367.4	1377.6	1402.2	1424.3
3275.8	22.5°	3162.8	2906.3	2138.6	1605.2	1408.2	1340.2	1338.5	1359.7	1373.3	1384.4
3361.6	25°	3188.3	2835.9	1914.3	1467.6	1313.9	1302.8	1321.5	1314.7	1305.4	1314.7
3447.4	27.5°	3207.0	2724.6	1713.9	1347.0	1247.6	1277.4	1266.3	1251.0	1250.2	1255.3
3548.4	30°	3201.1	2576.0	1549.1	1232.4	1200.9	1229.8	1203.5	1200.9	1198.4	1200.9
3700.5	32.5°	3201.1	2406.9	1422.6	1153.4	1171.2	1160.2	1157.6	1151.7	1141.5	1140.6
3906.8	35°	3218.9	2237.9	1313.9	1110.9	1146.6	1120.2	1121.9	1107.5	1086.3	1076.1
4180.3	37.5°	3255.4	2102.0	1206.0	1090.5	1103.3	1102.4	1095.6	1071.0	1033.6	1001.3
4521.7	40°	3343.7	2062.1	1132.1	1081.2	1082.9	1093.1	1075.2	1027.7	942.7	890.1
4868.3	42.5°	3482.2	2129.2	1116.0	1058.2	1069.3	1079.5	1044.7	934.2	873.9	842.5
5231.8	45°	3658.0	2246.4	1150.8	1025.1	1037.0	1054.8	951.2	898.6	871.4	872.2
5591.9	47.5°	3880.5	2369.6	1215.4	996.2	990.3	1000.5	889.2	857.0	819.6	828.9
5937.5	50°	4137.8	2494.4	1276.5	957.2	938.5	905.4	849.3	818.7	771.2	749.1
6271.3	52.5°	4416.4	2615.0	1301.1	909.6	882.4	844.2	822.1	784.8	727.0	690.5
6586.4	55°	4680.6	2724.6	1274.0	852.7	826.4	796.7	793.3	770.3	708.3	657.4
6866.7	57.5°	4930.3	2816.3	1206.0	795.0	769.5	751.6	774.6	763.5	685.4	620.0
7131.7	60°	5141.7	2879.2	1107.5	736.4	718.5	709.2	744.0	740.6	653.1	580.1
7369.5	62.5°	5309.9	2903.8	998.8	680.3	676.1	659.1	701.5	701.5	612.4	541.0
7578.4	65°	5441.5	2880.0	888.4	625.1	633.6	608.1	649.7	644.6	569.0	506.2
7818.8	67.5°	5557.9	2801.9	766.1	570.7	590.3	558.0	595.4	583.5	521.5	471.4
8026.8	70°	5609.7	2620.1	626.8	516.4	540.2	508.7	541.0	518.9	468.0	434.0
7798.4	72.5°	5193.5	2177.6	493.5	459.5	479.9	454.4	482.4	456.9	410.2	394.9
6734.2	75°	4296.7	1634.1	379.6	397.5	412.8	393.2	411.9	393.2	350.8	361.8
4974.4	77.5°	3120.4	1103.3	290.5	332.1	338.9	328.7	344.8	323.6	285.4	282.8
2479.1	80°	1551.7	646.3	227.6	262.4	259.9	253.1	271.8	261.6	229.3	242.9
669.3	82.5°	449.3	276.9	165.6	184.3	179.2	180.9	194.5	199.6	299.0	296.4
208.1	85°	141.0	108.7	99.4	102.8	97.7	100.2	114.7	227.6	210.6	123.2
64.5	87.5°	36.5	37.4	24.6	26.3	27.2	32.3	36.5	138.4	66.2	43.3
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>
2897.9
2759.4
2462.2
2051.9
1733.4
1585.7
1479.5
1443.0
1431.9
1390.3
1320.7
1263.8
1210.3
1151.7
1086.3
1012.4
896.9
842.5
876.5
852.7
755.0
689.6
657.4
616.6
577.5
538.5
502.8
468.0
427.2
382.2
330.4
270.1
240.4
303.2
133.3
45.9
0.0

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