

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: P949363

Luminaire Tested: **GALN-SB4A-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17654 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

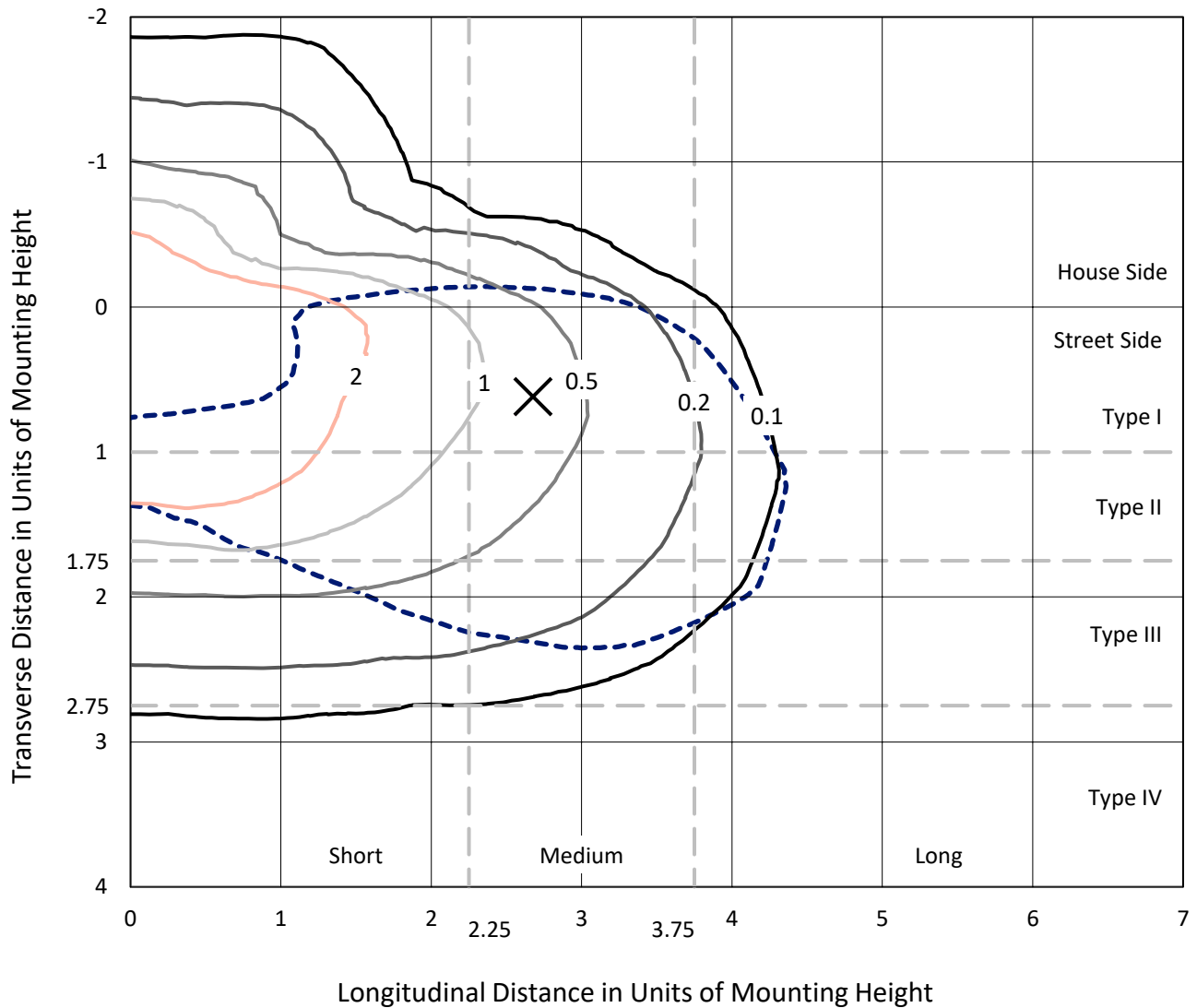
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949363
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Iso-Footcandle Lines of Horizontal Illumination

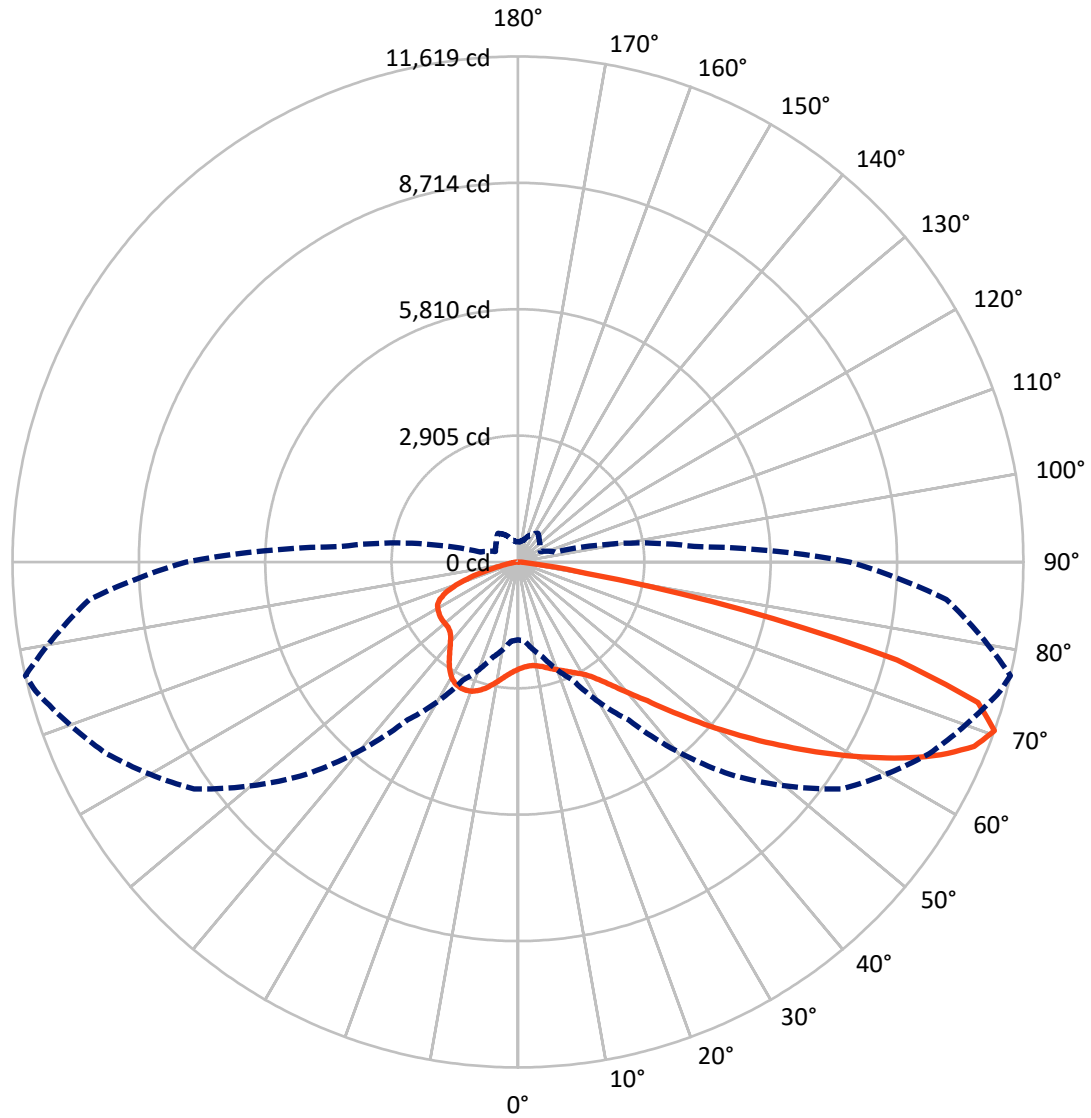
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P949363
CATALOG NUMBER: GALN-SB4A-850-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.9	0.0	3865.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13788.0	0.0	13788.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	17654.0	0.0	17654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	1.3
10°-20°	677.9	3.8
20°-30°	1159.4	6.6
30°-40°	1864.4	10.6
40°-50°	2910.7	16.5
50°-60°	3888.1	22.0
60°-70°	4144.1	23.5
70°-80°	2551.1	14.5
80°-90°	223.5	1.3
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°	17654.0	100.0
0°-180°	17654.0	100.0

Coefficient of Utilization



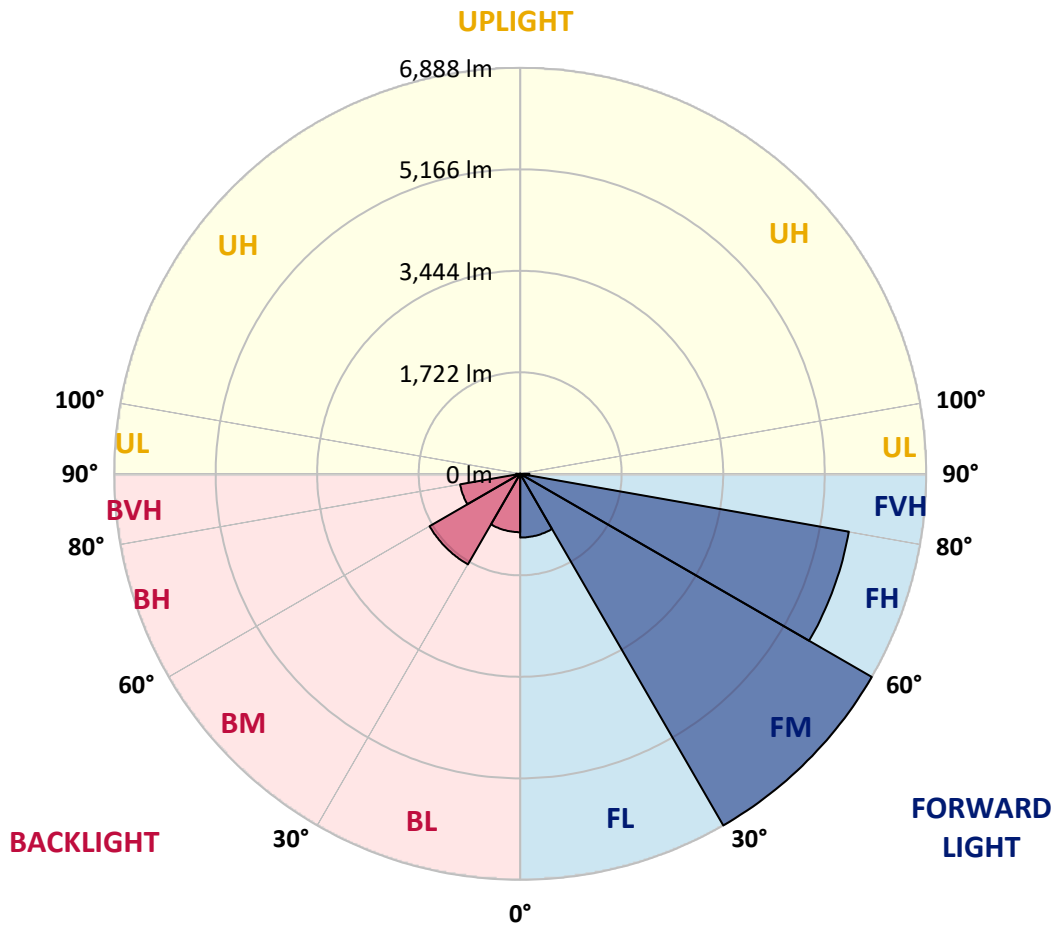
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.6	6.1			
FM (30°-60°)	6888.2	39.0			
FH (60°-80°)	5661.9	32.1			G3/7500
FVH (80°-90°)	156.3	0.9			G2/225
BL (0°-30°)	990.6	5.6	B2/1000		
BM (30°-60°)	1774.9	10.1	B2/2500		
BH (60°-80°)	1033.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	67.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P949363
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9
2.5°	2270.3	2269.4	2281.2	2284.8	2306.5	2321.8	2350.8	2381.5	2421.3	2425.8
5°	2139.2	2139.2	2152.8	2167.2	2195.3	2226.0	2270.3	2323.7	2392.4	2403.2
7.5°	2028.0	2035.2	2047.0	2075.0	2107.6	2151.9	2219.7	2295.6	2386.0	2403.2
10°	1938.5	1946.6	1961.1	1983.7	2032.5	2094.0	2182.6	2280.3	2401.4	2428.5
12.5°	1910.5	1918.6	1926.7	1943.9	1989.1	2061.5	2167.2	2287.5	2438.5	2465.6
15°	1975.6	1985.5	1979.2	1974.7	1998.2	2064.2	2174.5	2313.7	2484.6	2523.5
17.5°	2125.6	2129.3	2114.8	2072.3	2068.7	2103.9	2208.8	2349.9	2542.5	2585.0
20°	2368.0	2361.6	2331.8	2247.7	2199.8	2192.6	2267.6	2404.1	2602.1	2647.3
22.5°	2697.1	2689.8	2630.2	2497.3	2390.6	2320.0	2352.6	2474.6	2669.0	2719.7
25°	3107.6	3097.6	3009.9	2829.1	2663.6	2489.1	2468.3	2567.8	2751.3	2798.3
27.5°	3586.7	3578.6	3483.7	3245.0	3006.3	2720.6	2612.1	2677.2	2837.2	2890.6
30°	4102.1	4125.6	3957.4	3700.7	3398.7	3022.6	2805.6	2811.9	2948.4	2996.3
32.5°	4707.9	4748.6	4546.0	4220.6	3808.3	3350.8	3049.7	3000.0	3110.3	3150.0
35°	5308.2	5354.4	5186.2	4826.3	4351.7	3737.7	3304.7	3216.0	3325.4	3368.8
37.5°	5827.2	5888.7	5801.9	5489.1	4933.0	4204.3	3637.4	3470.1	3590.4	3644.6
40°	6236.8	6330.8	6324.5	6129.2	5618.4	4770.3	4059.6	3783.9	3919.5	3978.2
42.5°	6569.5	6650.9	6721.4	6711.5	6333.5	5413.1	4556.0	4191.6	4294.7	4362.5
45°	6799.2	6886.0	7037.9	7201.5	7021.6	6101.2	5124.7	4675.3	4769.4	4871.5
47.5°	7004.4	7103.0	7300.1	7559.6	7605.7	6791.9	5747.7	5238.6	5324.5	5430.3
50°	7022.5	7107.5	7413.1	7781.1	8020.7	7455.6	6416.7	5870.6	5951.1	6064.1
52.5°	6585.8	6719.6	7253.1	7774.8	8211.5	8010.7	7081.3	6527.9	6618.3	6754.0
55°	5112.0	5308.2	6783.8	7532.4	8143.6	8369.7	7713.3	7226.8	7342.6	7484.5
57.5°	4403.2	4489.1	5385.1	7091.2	7834.4	8462.8	8246.7	7933.0	8119.2	8274.7
60°	3957.4	4028.9	4558.7	6405.0	7427.6	8315.4	8659.0	8591.2	8913.1	9098.4
62.5°	3480.1	3547.9	4029.8	5348.0	6906.8	8070.4	8919.4	9198.8	9726.8	9929.3
65°	3006.3	3064.2	3526.2	4493.6	6244.9	7825.4	9054.1	9724.1	10480.0	10689.7
67.5°	2478.3	2526.2	2962.9	3791.1	5440.2	7489.9	9121.0	10137.3	11135.5	11315.4
70°	1788.4	1825.5	2276.6	2998.1	4430.3	6913.1	9093.9	10430.2	11475.4	11619.2
72.5°	845.4	878.8	1408.7	1946.6	3129.2	5790.2	8545.1	10197.9	11130.0	11058.6
75°	451.2	480.1	809.2	1067.8	1652.8	3969.2	6992.7	8784.7	9346.2	8999.0
77.5°	305.6	328.2	500.9	641.0	755.0	1884.2	4494.5	6082.2	5851.6	5278.4
80°	242.3	265.8	410.5	434.0	365.3	680.8	1857.1	2815.5	2022.6	1617.5
82.5°	186.3	212.5	345.4	314.6	198.9	279.4	540.7	890.6	518.1	394.2
85°	113.9	142.0	271.2	200.7	112.1	127.5	183.5	247.7	158.2	132.0
87.5°	57.9	81.4	137.4	73.2	50.6	29.8	48.8	48.8	41.6	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949363
 CATALOG NUMBER: GALN-SB4A-850-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2462.9	0°	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9	2462.9
2450.2	2.5°	2471.9	2490.0	2520.8	2549.7	2572.3	2594.0	2615.7	2627.4	2631.1	2645.5
2463.8	5°	2500.9	2534.3	2594.0	2650.1	2685.3	2707.0	2722.4	2731.4	2733.2	2737.8
2500.9	7.5°	2554.2	2607.6	2690.7	2746.8	2773.0	2771.2	2764.9	2742.3	2733.2	2725.1
2555.1	10°	2629.3	2699.8	2801.9	2840.8	2824.6	2781.2	2725.1	2659.1	2628.4	2598.5
2629.3	12.5°	2722.4	2811.9	2912.3	2910.4	2830.0	2718.8	2588.6	2487.3	2423.1	2377.0
2720.6	15°	2835.4	2938.5	3015.3	2953.8	2777.5	2577.7	2386.9	2254.9	2197.1	2146.4
2812.8	17.5°	2952.0	3062.3	3097.6	2940.3	2645.5	2368.9	2152.8	2048.8	1991.8	1964.7
2912.3	20°	3066.0	3175.4	3146.4	2862.5	2444.8	2132.0	1939.4	1882.4	1870.7	1877.0
3009.0	22.5°	3186.2	3283.9	3156.4	2712.4	2188.9	1889.7	1783.9	1785.7	1811.9	1830.9
3110.3	25°	3309.2	3375.2	3130.2	2495.4	1914.1	1711.5	1685.3	1714.3	1765.8	1802.9
3224.2	27.5°	3427.6	3456.6	3073.2	2226.9	1678.1	1584.1	1588.6	1648.3	1726.0	1777.6
3362.5	30°	3561.4	3528.9	2963.8	1924.9	1514.4	1474.7	1512.6	1582.3	1660.0	1706.1
3537.0	32.5°	3712.4	3591.3	2790.2	1645.5	1398.7	1387.0	1449.3	1494.6	1528.9	1542.5
3768.5	35°	3900.5	3679.0	2567.8	1449.3	1294.7	1322.8	1382.4	1359.8	1346.3	1339.0
4079.5	37.5°	4144.6	3797.4	2307.4	1321.9	1210.7	1276.7	1301.1	1230.5	1177.2	1151.0
4456.5	40°	4438.5	3971.0	2056.9	1223.3	1157.3	1236.9	1194.4	1109.4	1041.6	1004.5
4880.6	42.5°	4764.9	4152.7	1846.3	1149.2	1127.5	1204.3	1115.7	1014.5	905.1	893.3
5386.0	45°	5107.5	4339.9	1702.5	1092.2	1113.0	1176.3	1070.5	906.9	829.1	877.0
5893.2	47.5°	5450.2	4511.7	1615.7	1049.7	1105.8	1144.6	1030.7	847.2	792.0	861.7
6436.6	50°	5831.7	4665.4	1576.8	1019.0	1097.6	1132.0	971.1	831.8	753.2	799.3
6999.0	52.5°	6210.6	4784.7	1547.9	988.2	1085.9	1122.0	942.1	813.7	706.1	708.9
7565.0	55°	6588.5	4862.5	1516.3	947.5	1059.7	1100.3	939.4	793.8	670.9	658.2
8163.5	57.5°	6991.8	4906.8	1477.4	902.3	1014.5	1045.2	936.7	778.5	660.0	639.2
8775.6	60°	7402.2	4971.9	1426.7	847.2	953.9	979.2	930.4	773.0	653.7	618.4
9352.5	62.5°	7770.2	4994.5	1366.2	794.7	876.1	914.1	916.8	768.5	636.5	575.9
9831.7	65°	8011.6	4896.9	1260.4	735.1	792.0	847.2	890.6	753.2	605.8	545.2
10068.6	67.5°	8001.7	4618.4	1094.9	658.2	710.7	773.0	852.6	726.9	568.7	507.2
9889.6	70°	7629.2	4068.7	885.2	568.7	621.1	693.5	803.8	688.1	524.4	465.6
8793.7	72.5°	6543.3	3184.4	642.8	463.8	517.2	611.2	740.5	641.0	479.2	428.6
6499.0	75°	4674.4	2015.3	435.8	356.2	402.3	518.1	661.8	585.9	437.6	430.4
3254.9	77.5°	2387.8	962.9	288.4	260.4	280.3	408.7	556.0	523.5	443.9	355.3
925.8	80°	776.7	355.3	181.7	177.2	186.3	272.1	430.4	429.5	336.3	241.4
224.2	82.5°	247.7	152.8	118.4	113.9	109.4	170.9	300.2	340.0	226.9	152.8
80.5	85°	98.6	91.3	69.6	64.2	46.1	80.5	157.3	226.0	169.1	110.3
20.8	87.5°	36.2	36.2	19.0	13.6	9.9	27.1	42.5	67.8	96.7	57.0
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>
2462.9
2653.7
2745.0
2726.9
2589.5
2366.2
2141.0
1972.8
1874.3
1835.4
1812.8
1790.2
1717.0
1549.7
1346.3
1157.3
1007.2
905.1
902.3
894.2
833.6
727.8
667.3
641.9
621.1
575.9
545.2
509.9
471.1
425.9
406.0
316.5
213.4
151.9
113.0
56.1
0.0

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