

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: P940527

Luminaire Tested: **GALN-SB3C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21508 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

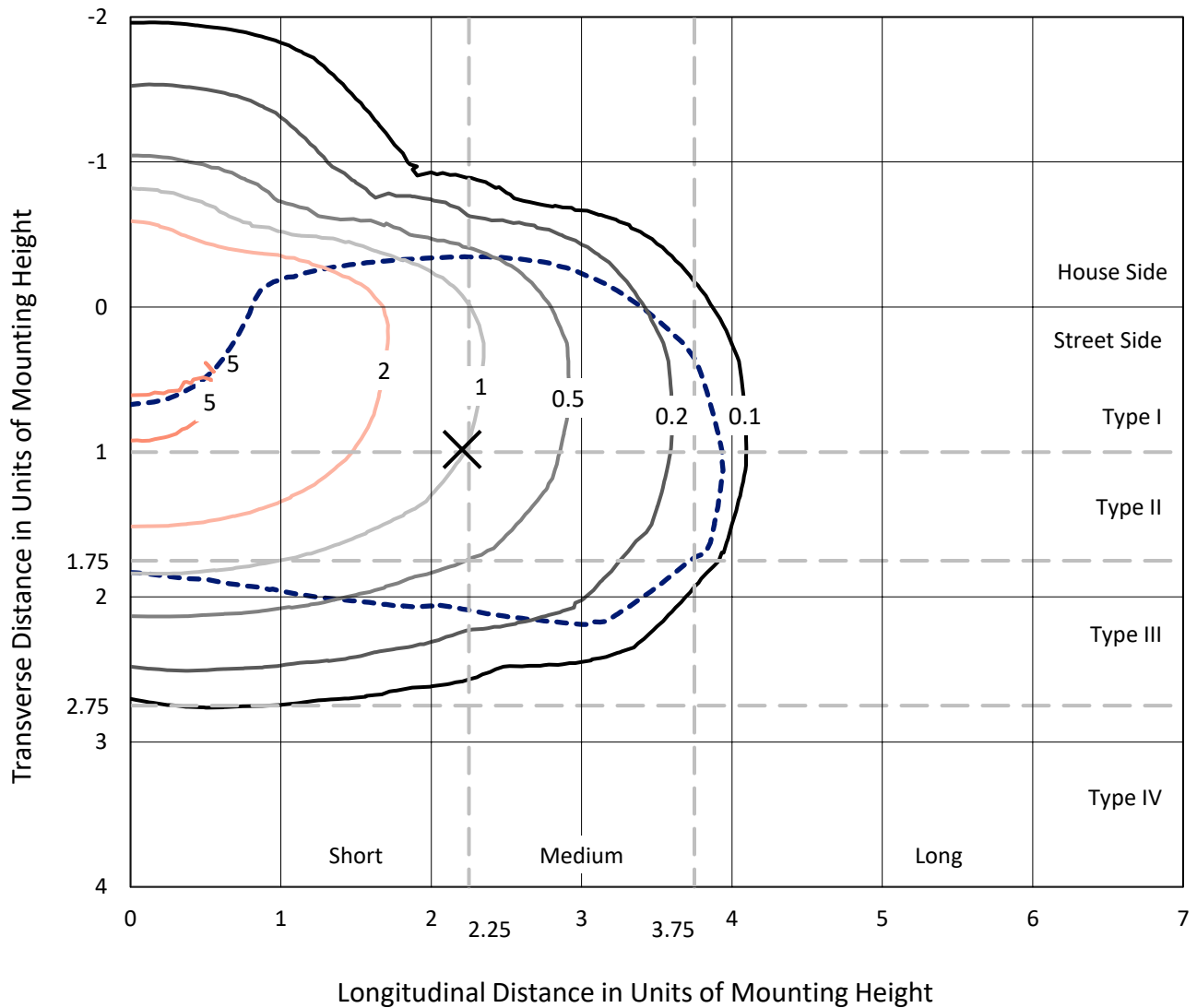
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

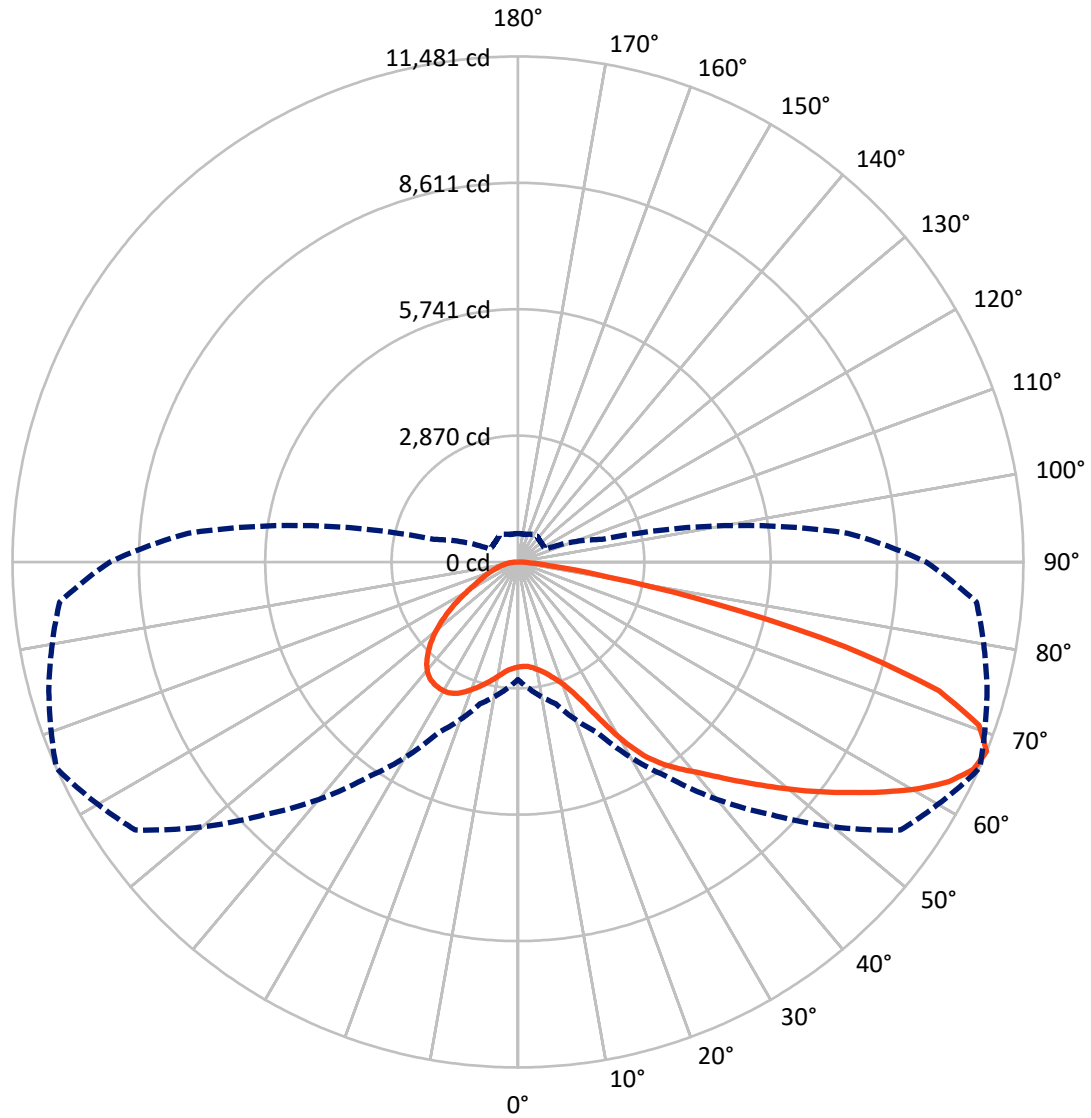
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5347.9	0.0	5347.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16160.1	0.0	16160.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	21508.0	0.0	21508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.1
10°-20°	781.4	3.6
20°-30°	1506.1	7.0
30°-40°	2640.8	12.3
40°-50°	3926.0	18.3
50°-60°	4976.6	23.1
60°-70°	4869.5	22.6
70°-80°	2322.8	10.8
80°-90°	248.3	1.2
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°	21508.0	100.0
0°-180°	21508.0	100.0

Coefficient of Utilization



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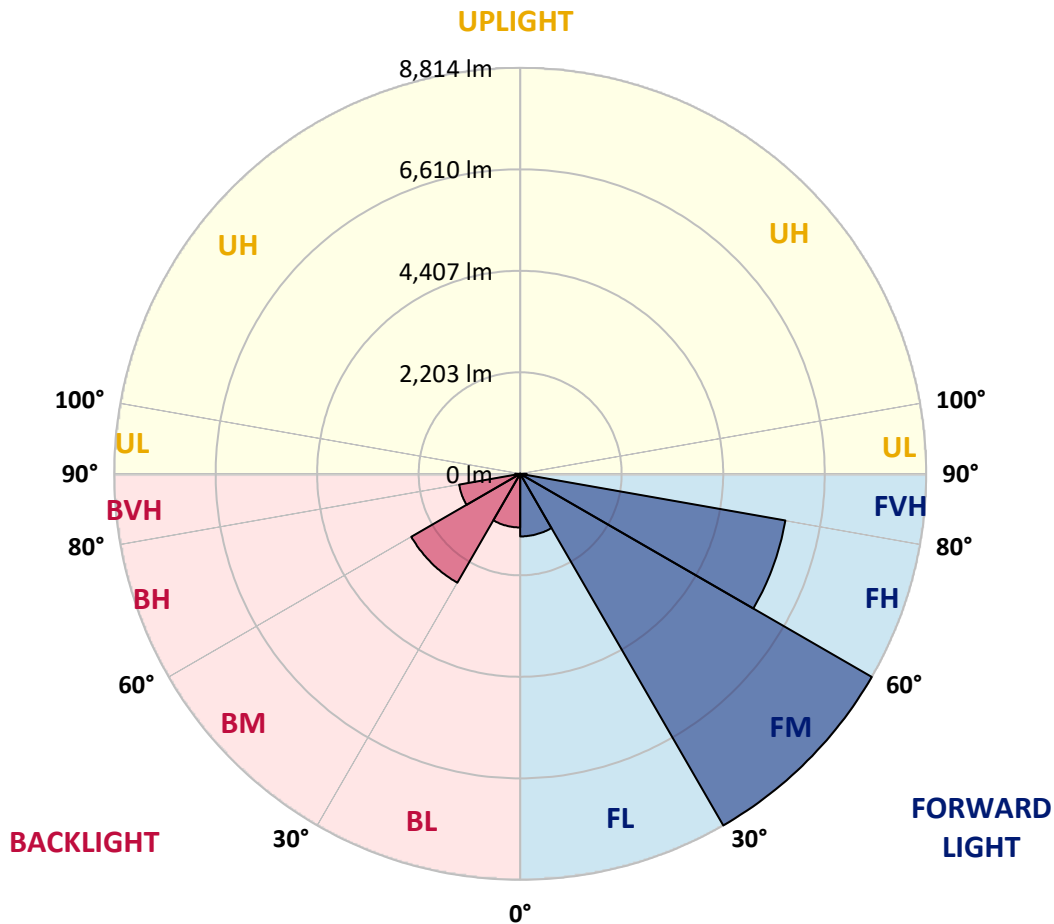
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.1	6.3			
FM (30°-60°)	8813.8	41.0			
FH (60°-80°)	5846.5	27.2			G3/7500
FVH (80°-90°)	140.7	0.7			G2/225
BL (0°-30°)	1165.0	5.4	B3/2500		
BM (30°-60°)	2729.6	12.7	B3/5000		
BH (60°-80°)	1345.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	107.5	0.5			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5
2.5°	2360.7	2374.2	2370.8	2365.2	2364.1	2366.3	2369.7	2373.1	2372.0	2377.6
5°	2353.9	2367.4	2366.3	2366.3	2370.8	2379.9	2385.5	2391.2	2385.5	2392.3
7.5°	2358.4	2368.6	2373.1	2377.6	2388.9	2405.9	2419.4	2431.9	2425.1	2433.0
10°	2416.0	2423.9	2428.5	2428.5	2436.4	2455.6	2469.1	2491.7	2486.1	2498.5
12.5°	2521.1	2529.0	2529.0	2524.5	2530.2	2542.6	2547.1	2572.0	2561.8	2582.1
15°	2650.0	2665.8	2653.3	2645.4	2647.7	2660.1	2659.0	2678.2	2668.0	2685.0
17.5°	2792.3	2812.7	2792.3	2791.2	2786.7	2800.2	2801.4	2818.3	2800.2	2812.7
20°	2960.7	2989.0	2972.0	2977.7	2967.5	2973.1	2978.8	3003.7	2975.4	2984.4
22.5°	3198.0	3231.9	3213.8	3235.3	3228.5	3224.0	3222.9	3267.0	3222.9	3226.3
25°	3543.8	3584.5	3552.9	3582.2	3582.2	3596.9	3613.9	3670.4	3596.9	3575.5
27.5°	4054.6	4095.3	4033.1	4051.2	4045.6	4081.7	4063.6	4203.8	4124.7	4089.6
30°	4669.3	4741.7	4624.1	4619.6	4614.0	4671.6	4697.6	4790.3	4710.0	4675.0
32.5°	5333.8	5409.5	5269.4	5228.7	5207.2	5242.3	5220.8	5295.4	5240.0	5185.8
35°	6036.7	6111.3	5977.9	5898.8	5812.9	5739.5	5662.6	5681.9	5629.9	5547.4
37.5°	6701.2	6837.9	6696.6	6611.9	6453.7	6310.2	6095.5	6006.2	5957.6	5881.9
40°	7378.1	7456.0	7348.7	7276.3	7104.6	6879.7	6536.2	6347.5	6281.9	6208.5
42.5°	7876.4	7951.0	7893.4	7843.6	7709.2	7448.1	7004.0	6767.8	6672.9	6590.4
45°	8271.9	8327.3	8291.1	8309.2	8251.6	7998.4	7488.8	7218.7	7120.4	7019.8
47.5°	8431.3	8490.0	8547.6	8655.0	8753.3	8566.9	8009.7	7706.9	7602.9	7500.1
50°	8413.2	8473.1	8640.3	8868.6	9173.7	9111.5	8558.9	8226.7	8130.7	8013.1
52.5°	8268.5	8336.3	8551.0	8930.7	9416.7	9519.5	9118.3	8763.5	8673.1	8533.0
55°	7888.8	7929.5	8251.6	8789.5	9474.3	9804.3	9666.4	9335.3	9244.9	9049.4
57.5°	7184.8	7243.6	7712.5	8408.7	9329.6	9997.5	10147.8	9936.5	9849.5	9568.1
60°	6266.1	6359.9	6896.7	7769.0	8961.2	9996.4	10585.1	10527.5	10455.2	10078.9
62.5°	5226.5	5334.9	5851.4	6865.0	8317.1	9712.7	10858.6	11022.4	10985.2	10550.1
65°	4013.9	4088.5	4602.7	5695.4	7314.8	9103.6	10890.2	11360.3	11367.1	10908.3
67.5°	2672.6	2887.3	3333.6	4273.8	5972.3	8108.1	10612.2	11415.7	11481.2	11031.5
70°	1304.1	1586.6	2023.9	2777.6	4273.8	6581.4	9885.6	10961.4	11107.2	10672.1
72.5°	541.3	632.8	871.3	1370.7	2453.3	4441.1	8425.6	9729.7	9999.8	9456.2
75°	365.0	395.5	498.3	702.9	1117.6	2190.0	6076.2	7254.9	7689.9	7141.9
77.5°	281.4	300.6	362.7	491.6	664.5	828.3	3252.3	4372.1	4597.0	4255.7
80°	221.5	236.2	271.2	358.2	471.2	443.0	1108.6	1981.0	2110.9	1770.8
82.5°	192.1	197.8	194.4	243.0	313.0	258.8	363.9	731.1	806.9	585.4
85°	139.0	154.8	161.6	150.3	166.1	131.1	149.2	258.8	284.8	254.3
87.5°	56.5	83.6	102.8	97.2	61.0	37.3	46.3	75.7	87.0	94.9
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°
2385.5	0°	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5	2385.5
2386.7	2.5°	2387.8	2395.7	2401.3	2408.1	2412.6	2419.4	2433.0	2440.9	2442.0	2447.7
2404.7	5°	2409.3	2420.6	2433.0	2451.1	2471.4	2488.4	2514.3	2532.4	2539.2	2544.9
2448.8	7.5°	2455.6	2471.4	2494.0	2525.6	2555.0	2577.6	2609.3	2630.7	2652.2	2660.1
2518.9	10°	2524.5	2547.1	2579.9	2622.8	2654.5	2683.9	2716.6	2734.7	2756.2	2765.2
2602.5	12.5°	2610.4	2634.1	2677.1	2737.0	2766.3	2786.7	2798.0	2793.5	2798.0	2805.9
2703.1	15°	2708.7	2734.7	2783.3	2847.7	2868.0	2850.0	2825.1	2802.5	2799.1	2801.4
2825.1	17.5°	2825.1	2844.3	2900.8	2955.1	2940.4	2865.8	2811.5	2775.4	2757.3	2751.7
2981.1	20°	2987.8	2987.8	3034.2	3068.1	2969.8	2843.2	2758.4	2699.7	2662.4	2646.6
3193.5	22.5°	3185.6	3167.5	3196.9	3173.2	2964.1	2779.9	2662.4	2560.7	2504.2	2481.6
3490.7	25°	3436.5	3415.0	3407.1	3260.2	2923.4	2679.3	2488.4	2365.2	2315.5	2303.0
3919.0	27.5°	3815.0	3760.8	3658.0	3307.6	2848.8	2521.1	2284.9	2170.8	2142.6	2143.7
4469.3	30°	4319.0	4210.5	3958.5	3315.5	2726.8	2297.4	2077.0	1995.7	1982.1	1987.7
4931.5	32.5°	4785.7	4682.9	4265.9	3279.4	2539.2	2078.1	1890.6	1836.3	1816.0	1822.8
5284.1	35°	5151.9	5123.6	4550.7	3228.5	2308.7	1872.5	1723.3	1677.0	1637.4	1628.4
5616.3	37.5°	5497.7	5486.4	4764.3	3157.3	2080.4	1726.7	1588.8	1527.8	1470.2	1438.5
5983.6	40°	5877.4	5866.1	4904.4	3047.7	1878.1	1600.1	1467.9	1387.7	1316.5	1258.9
6399.4	42.5°	6304.5	6237.8	4971.1	2890.7	1706.4	1492.8	1369.6	1261.1	1167.3	1114.2
6869.5	45°	6771.2	6620.9	4969.9	2690.6	1561.7	1394.5	1264.5	1110.8	1023.8	974.1
7352.1	47.5°	7266.2	6987.1	4908.9	2469.1	1421.6	1286.0	1101.8	984.3	926.6	896.1
7876.4	50°	7777.0	7329.5	4804.9	2214.9	1278.1	1162.8	1000.1	919.9	875.8	847.5
8396.2	52.5°	8257.2	7640.2	4679.5	1926.7	1132.3	1043.0	954.9	892.7	846.4	814.8
8900.2	55°	8703.6	7908.0	4502.1	1631.8	1013.6	962.8	933.4	881.4	828.3	791.0
9412.1	57.5°	9100.2	8082.1	4195.9	1354.9	928.9	907.4	910.8	862.2	801.2	769.6
9916.1	60°	9430.2	8209.8	3742.7	1098.4	860.0	853.2	875.8	826.1	754.9	718.7
10342.2	62.5°	9628.0	8207.5	3186.7	899.5	801.2	803.5	829.5	780.9	708.5	674.6
10564.8	65°	9611.0	8006.4	2576.5	769.6	744.7	747.0	780.9	731.1	670.1	649.8
10452.9	67.5°	9270.9	7515.9	1976.4	684.8	682.5	692.7	732.3	697.2	646.4	644.1
9786.2	70°	8349.9	6497.7	1423.9	617.0	618.1	632.8	684.8	675.8	634.0	638.5
8227.8	72.5°	6695.5	4954.1	956.0	545.8	546.9	570.7	639.6	658.8	621.5	681.4
5837.8	75°	4459.2	3089.5	614.7	470.1	471.2	501.7	600.1	626.0	587.6	679.2
3037.6	77.5°	2142.6	1388.8	445.2	395.5	395.5	423.8	518.7	560.5	500.6	527.7
976.4	80°	740.2	522.1	350.3	318.7	311.9	331.1	437.3	485.9	431.7	397.8
318.7	82.5°	291.6	271.2	281.4	247.5	224.9	237.3	340.1	401.2	317.5	287.0
179.7	85°	167.2	176.3	198.9	163.9	130.0	145.8	249.7	288.2	239.6	211.3
58.8	87.5°	45.2	62.2	91.5	84.8	58.8	62.2	118.7	159.3	137.9	106.2
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>
2385.5
2446.5
2543.7
2661.3
2769.7
2808.2
2809.3
2759.6
2643.2
2478.2
2305.3
2147.1
2007.0
1831.8
1635.2
1439.7
1264.5
1117.6
971.8
889.3
837.4
801.2
776.3
749.2
702.9
664.5
648.6
647.5
637.3
690.5
684.8
483.7
372.9
285.9
215.8
109.6
0.0

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