

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: P949456

Luminaire Tested: **GALN-SB4A-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12431 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

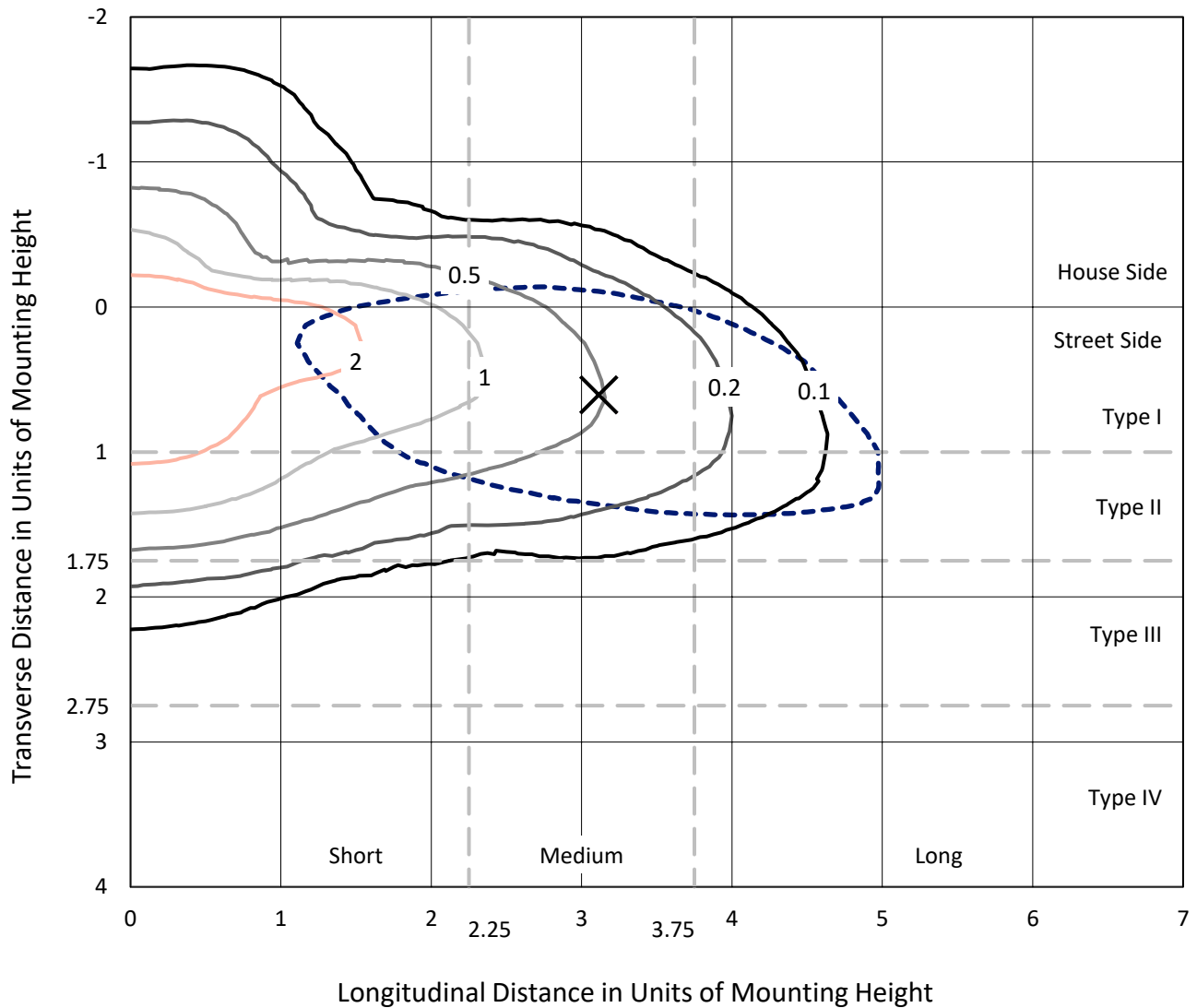
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

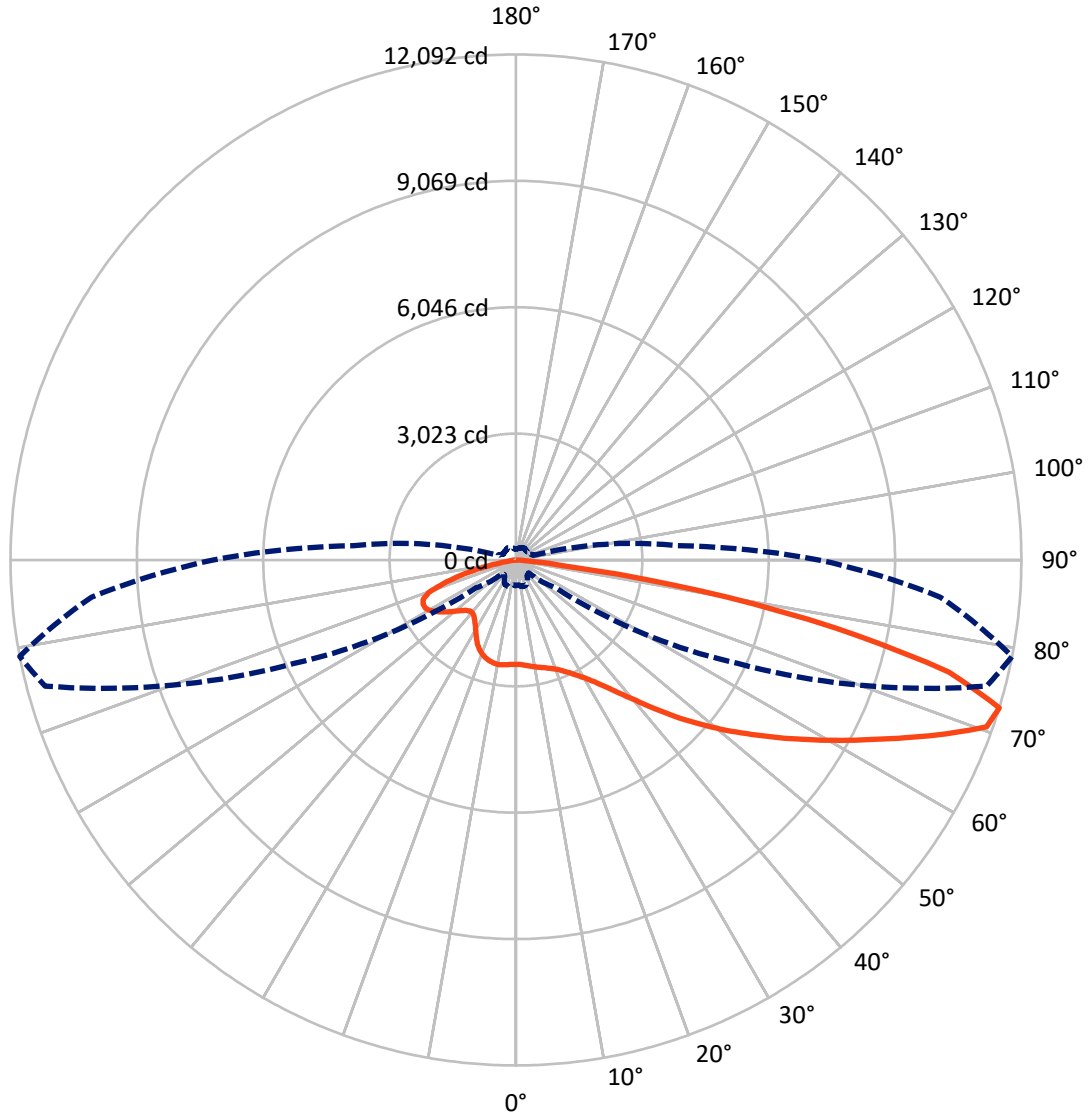
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2735.5	0.0	2735.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9695.5	0.0	9695.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	12431.0	0.0	12431.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	1.8
10°-20°	592.2	4.8
20°-30°	955.6	7.7
30°-40°	1434.2	11.5
40°-50°	2034.5	16.4
50°-60°	2569.3	20.7
60°-70°	2609.5	21.0
70°-80°	1778.5	14.3
80°-90°	230.7	1.9
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°	12431.0	100.0
0°-180°	12431.0	100.0



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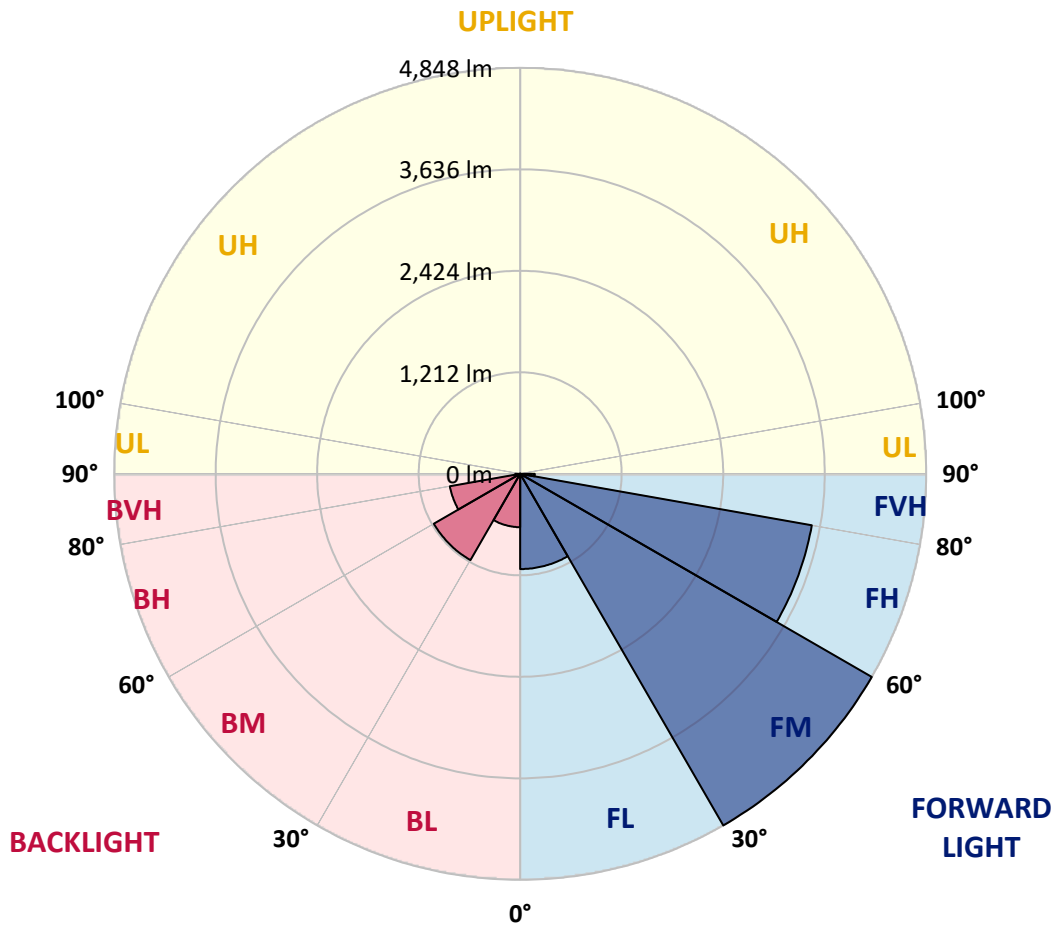
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.1	9.1			
FM (30°-60°)	4848.3	39.0			
FH (60°-80°)	3536.2	28.4			G2/5000
FVH (80°-90°)	173.8	1.4			G2/225
BL (0°-30°)	637.2	5.1	B2/1000		
BM (30°-60°)	1189.7	9.6	B2/2500		
BH (60°-80°)	851.7	6.9	B2/1000		G2/1000
BVH (80°-90°)	56.9	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2.5°	2496.7	2484.9	2492.1	2489.5	2492.8	2496.7	2498.0	2500.0	2506.6	2505.9
5°	2491.5	2479.6	2489.5	2486.2	2494.7	2504.0	2511.8	2519.1	2529.6	2534.2
7.5°	2480.3	2472.4	2482.3	2492.1	2507.9	2521.7	2532.9	2549.3	2564.4	2567.1
10°	2415.2	2409.3	2432.3	2457.9	2501.3	2538.8	2563.1	2582.2	2598.6	2601.3
12.5°	2347.5	2340.2	2365.9	2400.7	2471.1	2538.8	2590.1	2615.1	2629.5	2638.1
15°	2336.3	2330.4	2344.8	2375.1	2433.6	2521.0	2608.5	2654.5	2667.0	2676.9
17.5°	2390.2	2379.0	2384.9	2395.5	2429.6	2504.6	2623.0	2699.2	2718.3	2728.8
20°	2515.1	2499.4	2490.1	2469.1	2463.2	2507.2	2621.7	2753.2	2778.2	2791.3
22.5°	2681.5	2671.0	2651.2	2598.0	2540.1	2539.5	2646.6	2822.2	2868.9	2881.4
25°	2882.7	2866.9	2841.9	2769.6	2658.5	2603.2	2688.7	2910.3	2988.6	2991.9
27.5°	3114.2	3090.5	3056.3	2961.0	2811.0	2703.2	2753.2	3011.6	3126.0	3124.7
30°	3358.1	3334.4	3298.3	3182.5	2993.8	2838.0	2842.6	3120.7	3289.1	3281.8
32.5°	3536.3	3518.6	3511.3	3421.9	3204.2	2997.1	2945.2	3241.7	3490.3	3483.7
35°	3673.1	3650.1	3658.6	3613.2	3433.7	3175.3	3070.8	3385.7	3734.9	3734.2
37.5°	3808.5	3788.1	3795.4	3765.1	3646.1	3401.5	3224.0	3562.0	4038.0	4052.5
40°	3932.2	3910.5	3939.4	3911.1	3811.2	3642.2	3398.2	3761.2	4389.2	4416.8
42.5°	4006.5	3989.4	4037.4	4038.0	3954.5	3845.4	3589.6	3980.8	4795.5	4857.3
45°	4032.1	4026.2	4098.5	4113.6	4081.4	3963.1	3761.8	4220.2	5233.4	5343.9
47.5°	4004.5	3993.3	4093.3	4149.1	4174.8	4018.3	3904.5	4479.2	5680.6	5842.3
50°	3865.1	3843.4	3992.0	4109.7	4201.1	4054.5	4048.5	4778.4	6188.9	6365.7
52.5°	3614.6	3598.1	3767.1	3971.6	4143.2	4072.2	4210.3	5105.2	6671.5	6900.3
55°	3294.3	3272.6	3458.7	3725.7	3999.2	4066.3	4372.1	5470.8	7240.9	7473.1
57.5°	2786.7	2743.3	2978.7	3294.3	3764.5	4059.1	4540.4	5834.4	7819.6	8097.7
60°	2046.3	1981.9	2270.5	2644.7	3305.5	3988.7	4748.8	6242.1	8514.0	8764.5
62.5°	1191.5	1154.0	1342.7	1691.9	2491.5	3574.4	4865.9	6716.2	9196.5	9459.5
65°	925.2	914.7	931.1	958.1	1386.8	2676.2	4504.9	7178.5	10064.5	10248.6
67.5°	846.3	838.4	845.6	795.0	703.6	1490.7	3563.9	7295.5	10994.2	11106.0
70°	752.2	743.0	766.7	723.3	553.7	677.9	2302.7	6870.7	11734.0	11943.8
72.5°	612.8	602.3	657.6	637.8	466.2	435.3	1156.6	5861.4	11656.4	12091.7
75°	470.8	464.9	530.6	547.1	380.1	342.6	555.0	4356.9	10257.8	10696.4
77.5°	365.6	361.0	394.5	454.4	306.4	265.7	341.3	2763.7	7730.2	7807.1
80°	274.2	261.0	292.0	351.8	238.7	194.0	231.5	1611.7	4886.3	4429.3
82.5°	171.6	165.0	190.7	234.7	168.3	133.5	150.6	890.3	1958.2	1153.3
85°	98.0	95.3	103.9	134.1	91.4	76.9	86.1	393.2	357.7	245.9
87.5°	39.5	38.1	47.3	59.8	33.5	28.3	30.2	94.7	78.9	73.0
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°
2495.4	0°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2505.3	2.5°	2502.6	2502.6	2493.4	2479.0	2462.5	2452.0	2434.9	2430.3	2412.6	2407.3
2527.6	5°	2532.9	2527.6	2499.4	2458.6	2402.7	2351.4	2294.9	2259.3	2209.4	2191.6
2571.7	7.5°	2571.0	2556.6	2507.9	2418.5	2301.4	2186.4	2066.7	1975.9	1889.1	1858.2
2607.8	10°	2605.9	2585.5	2502.6	2346.1	2143.6	1944.4	1753.7	1620.2	1518.9	1477.5
2648.0	12.5°	2640.7	2603.2	2467.8	2225.8	1919.4	1649.1	1446.0	1342.1	1279.6	1229.6
2680.8	15°	2673.6	2621.0	2413.9	2064.7	1673.5	1399.3	1249.3	1166.5	1116.5	1083.6
2728.8	17.5°	2711.7	2636.1	2333.0	1860.2	1439.4	1226.3	1104.0	1054.1	1044.2	1040.2
2794.6	20°	2765.0	2649.9	2226.5	1631.4	1267.1	1088.2	1025.1	1020.5	1019.9	1017.9
2873.5	22.5°	2822.2	2666.4	2085.8	1423.6	1120.5	1002.1	990.9	981.7	975.8	975.1
2968.8	25°	2889.9	2671.6	1909.5	1253.3	995.5	961.3	948.2	934.4	930.4	930.4
3077.3	27.5°	2955.7	2653.9	1704.4	1105.3	925.2	923.9	906.8	902.2	901.5	903.5
3201.0	30°	3021.4	2620.3	1500.5	968.6	884.4	884.4	878.5	881.8	884.4	891.0
3370.6	32.5°	3110.2	2584.8	1330.2	867.3	848.9	842.3	848.2	854.8	857.4	866.0
3593.5	35°	3240.4	2559.8	1194.8	812.1	812.1	803.5	806.8	805.5	799.6	795.6
3863.1	37.5°	3412.7	2558.5	1083.0	786.4	781.2	779.9	780.5	772.0	749.0	721.3
4189.3	40°	3619.8	2594.0	996.8	768.7	764.7	772.6	768.7	745.7	682.5	634.5
4590.4	42.5°	3898.0	2695.3	941.6	747.0	758.8	768.7	752.9	673.3	630.6	598.4
5047.4	45°	4225.4	2859.7	913.3	724.0	747.6	759.5	683.2	648.3	614.2	575.4
5545.8	47.5°	4596.3	3066.8	906.8	702.3	722.6	729.9	653.6	637.8	599.0	556.9
6046.8	50°	5000.0	3312.1	924.5	676.6	686.5	661.5	643.7	629.3	589.2	547.7
6560.4	52.5°	5417.6	3582.3	960.0	641.8	650.3	622.7	639.8	627.3	583.2	527.4
7091.0	55°	5827.9	3854.6	994.2	601.0	613.5	587.9	628.6	619.4	556.3	493.2
7657.2	57.5°	6244.8	4125.5	1027.8	564.8	578.0	554.3	610.9	598.4	526.0	461.6
8275.3	60°	6678.1	4388.5	1043.5	530.0	539.2	523.4	583.9	562.2	491.8	429.4
8882.9	62.5°	7083.8	4607.5	1017.9	495.1	501.1	494.5	548.4	519.5	457.7	393.2
9516.1	65°	7490.8	4737.7	939.0	460.9	462.3	459.0	498.4	473.4	417.5	361.7
10070.4	67.5°	7859.7	4810.6	813.4	424.1	420.8	419.5	451.7	423.5	378.7	330.1
10491.9	70°	7938.0	4625.2	621.4	380.7	380.7	377.4	400.4	371.5	336.0	296.6
10190.1	72.5°	7250.2	3890.7	441.2	331.4	336.7	330.1	349.2	324.8	292.6	266.3
8782.2	75°	5846.3	2853.1	320.9	280.8	290.0	278.8	296.6	279.5	251.8	251.2
6052.1	77.5°	4017.0	1764.2	232.8	231.5	238.0	223.6	244.0	234.7	209.8	198.6
2634.1	80°	1714.2	703.6	169.6	178.9	178.9	165.7	189.4	192.0	170.3	165.0
508.3	82.5°	341.3	199.9	119.0	123.0	115.7	111.8	134.1	148.6	205.2	228.2
153.2	85°	102.6	73.6	71.7	67.1	59.2	59.8	78.9	149.3	184.1	105.2
50.6	87.5°	28.3	18.4	19.1	15.1	12.5	16.4	27.0	113.1	61.8	26.3
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>
2495.4
2415.8
2204.8
1862.2
1486.7
1246.1
1089.6
1042.9
1024.5
982.4
934.4
908.7
895.6
873.2
804.8
722.0
633.2
597.1
572.7
553.7
543.1
523.4
489.9
460.3
427.4
392.6
357.7
326.1
295.2
258.4
226.2
186.1
165.0
228.8
90.7
22.4
0.0

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