

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: P941227

Luminaire Tested: **GALN-SB4C-930-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941227
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-SB4C-930-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20894 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

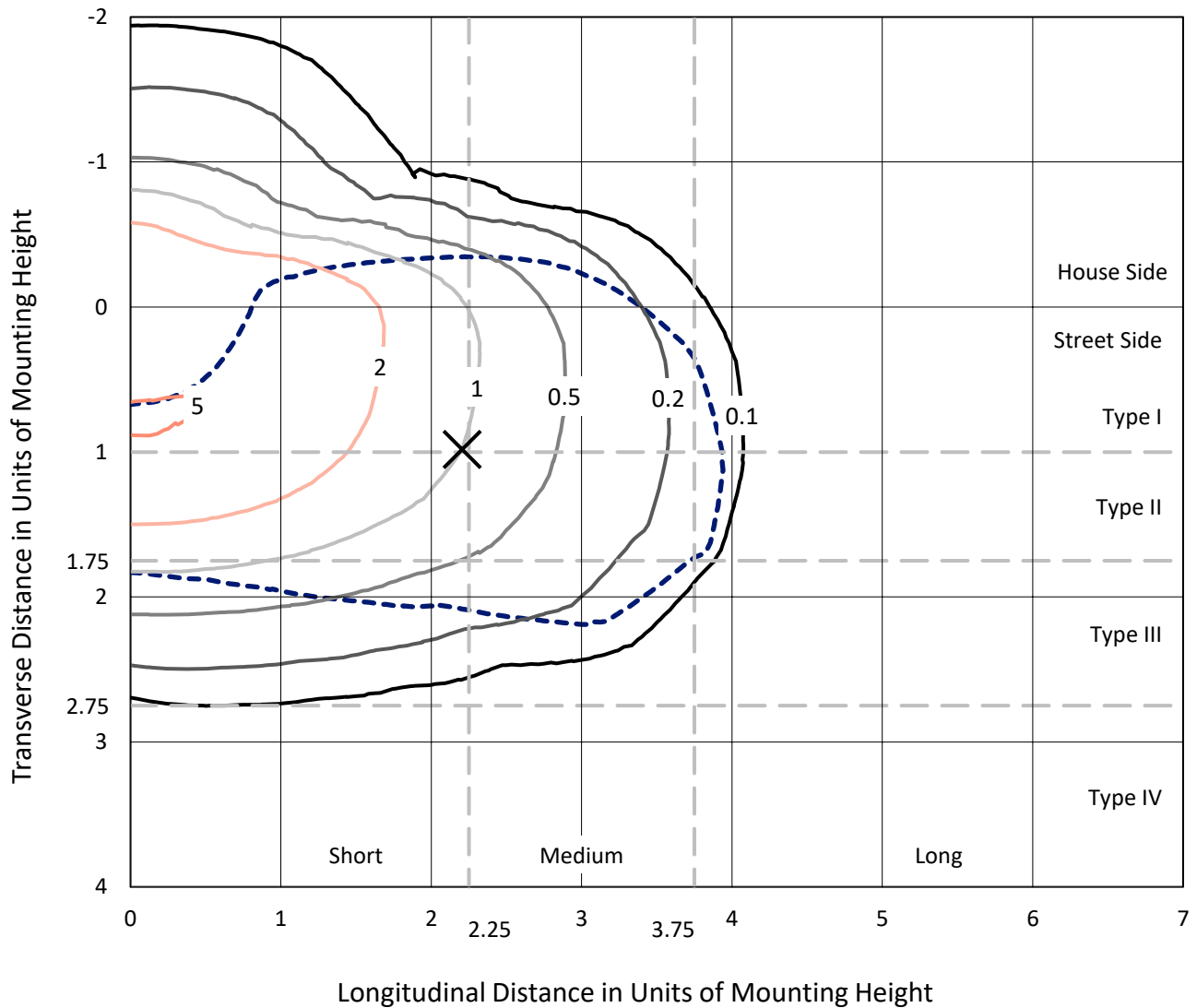
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

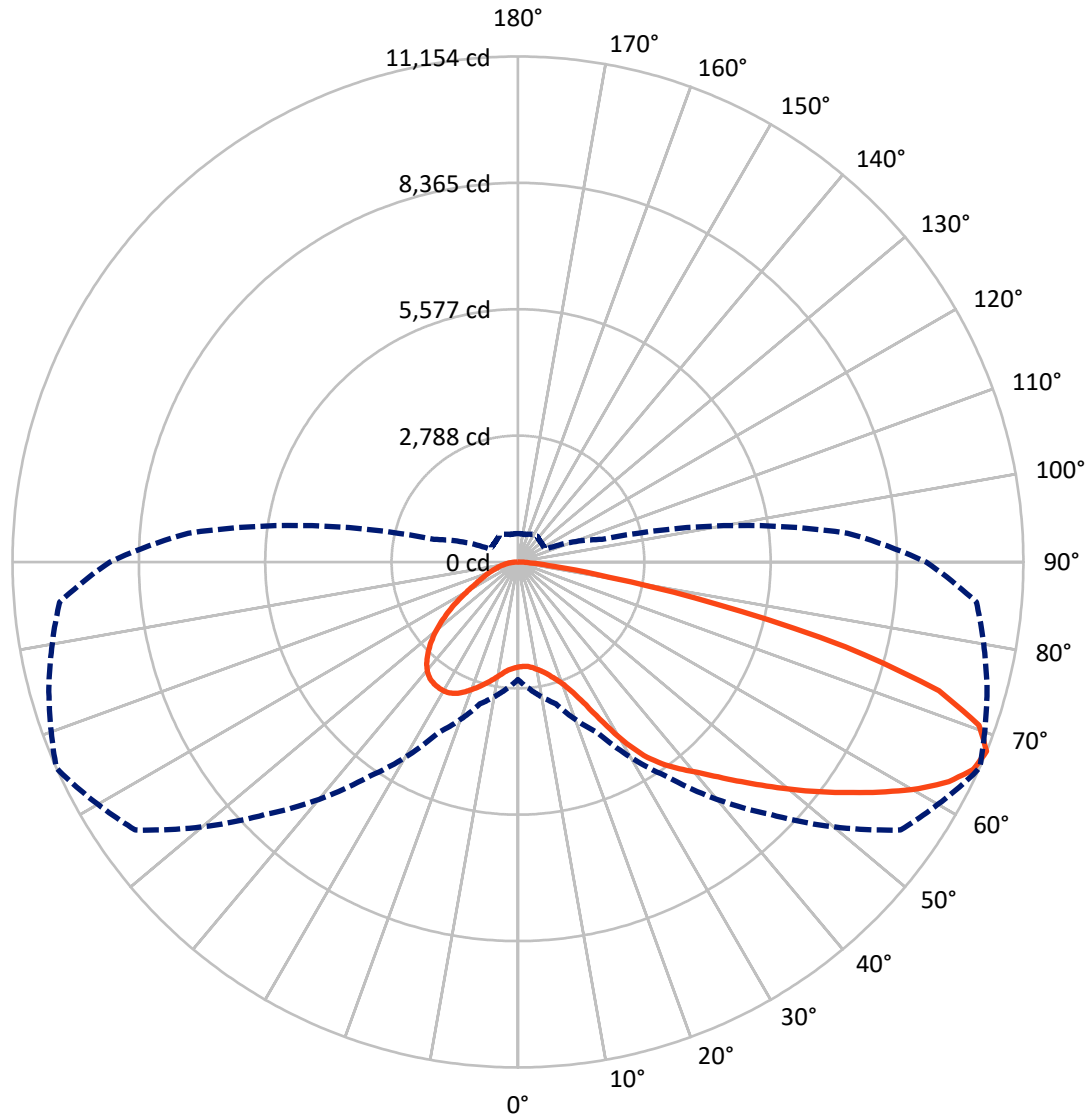
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5195.2	0.0	5195.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15698.8	0.0	15698.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	20894.0	0.0	20894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	1.1
10°-20°	759.1	3.6
20°-30°	1463.1	7.0
30°-40°	2565.4	12.3
40°-50°	3813.9	18.3
50°-60°	4834.5	23.1
60°-70°	4730.5	22.6
70°-80°	2256.5	10.8
80°-90°	241.2	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°	20894.0	100.0
0°-180°	20894.0	100.0

Coefficient of Utilization



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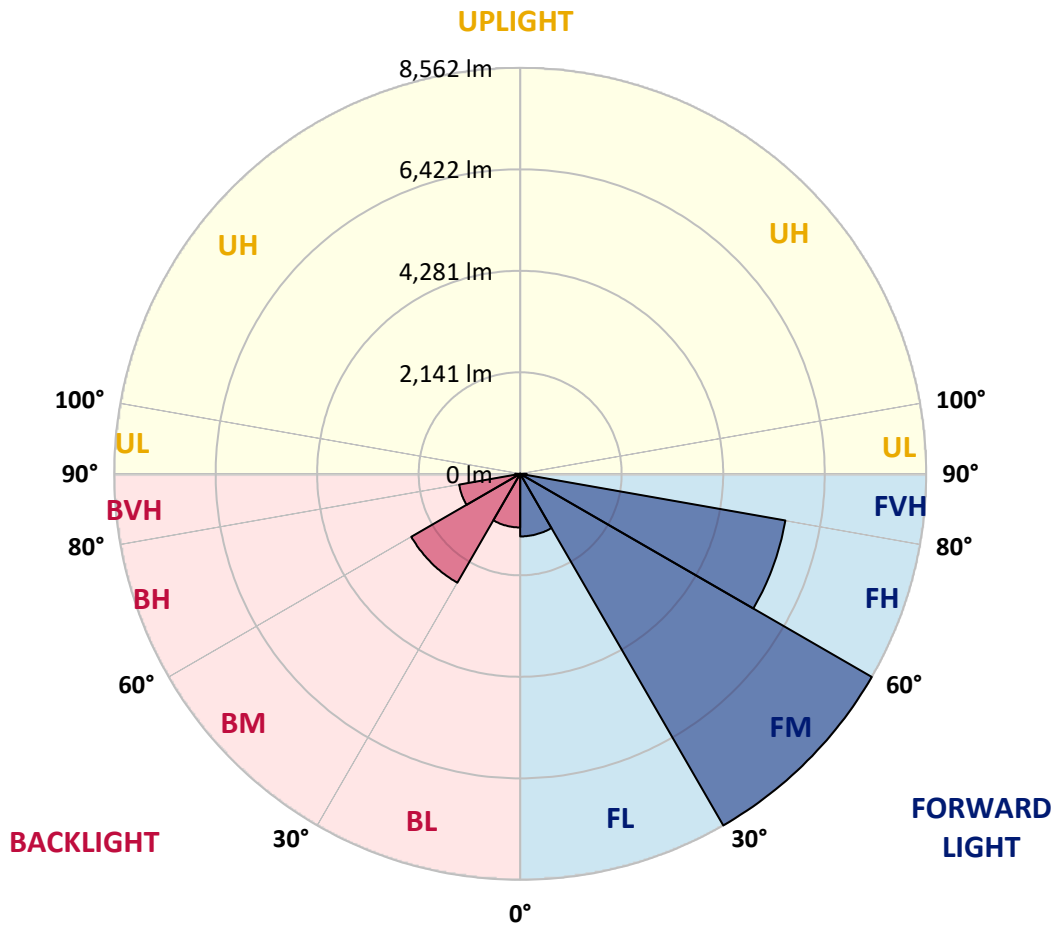
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.3	6.3			
FM (30°-60°)	8562.2	41.0			
FH (60°-80°)	5679.6	27.2			G3/7500
FVH (80°-90°)	136.7	0.7			G2/225
BL (0°-30°)	1131.7	5.4	B3/2500		
BM (30°-60°)	2651.7	12.7	B3/5000		
BH (60°-80°)	1307.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	104.4	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°	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4
2.5°	2293.3	2306.4	2303.1	2297.7	2296.6	2298.8	2302.1	2305.3	2304.2	2309.7
5°	2286.7	2299.9	2298.8	2298.8	2303.1	2311.9	2317.4	2322.9	2317.4	2324.0
7.5°	2291.1	2301.0	2305.3	2309.7	2320.7	2337.2	2350.4	2362.4	2355.8	2363.5
10°	2347.1	2354.7	2359.1	2359.1	2366.8	2385.5	2398.7	2420.6	2415.1	2427.2
12.5°	2449.2	2456.8	2456.8	2452.4	2457.9	2470.0	2474.4	2498.6	2488.7	2508.4
15°	2574.3	2589.7	2577.6	2569.9	2572.1	2584.2	2583.1	2601.7	2591.9	2608.3
17.5°	2712.6	2732.4	2712.6	2711.5	2707.1	2720.3	2721.4	2737.9	2720.3	2732.4
20°	2876.2	2903.6	2887.2	2892.7	2882.8	2888.3	2893.8	2917.9	2890.5	2899.2
22.5°	3106.7	3139.7	3122.1	3143.0	3136.4	3132.0	3130.9	3173.7	3130.9	3134.2
25°	3442.6	3482.2	3451.4	3480.0	3480.0	3494.2	3510.7	3565.6	3494.2	3473.4
27.5°	3938.8	3978.4	3918.0	3935.6	3930.1	3965.2	3947.6	4083.8	4006.9	3972.9
30°	4536.0	4606.3	4492.1	4487.7	4482.2	4538.2	4563.5	4653.5	4575.6	4541.5
32.5°	5181.5	5255.1	5119.0	5079.4	5058.6	5092.6	5071.8	5144.2	5090.4	5037.7
35°	5864.4	5936.8	5807.3	5730.4	5647.0	5575.6	5501.0	5519.7	5469.2	5389.0
37.5°	6509.9	6642.7	6505.5	6423.1	6269.4	6130.0	5921.4	5834.7	5787.5	5714.0
40°	7167.4	7243.2	7138.9	7068.6	6901.8	6683.3	6349.6	6166.2	6102.6	6031.2
42.5°	7651.6	7724.0	7668.0	7619.7	7489.1	7235.5	6804.1	6574.6	6482.4	6402.3
45°	8035.8	8089.6	8054.4	8072.0	8016.0	7770.1	7275.0	7012.6	6917.1	6819.4
47.5°	8190.6	8247.6	8303.6	8407.9	8503.4	8322.3	7781.1	7486.9	7385.9	7286.0
50°	8173.0	8231.2	8393.7	8615.4	8911.8	8851.4	8314.6	7991.9	7898.6	7784.4
52.5°	8032.5	8098.3	8306.9	8675.8	9147.8	9247.7	8858.0	8513.3	8425.5	8289.4
55°	7663.6	7703.1	8016.0	8538.6	9203.8	9524.4	9390.4	9068.8	8981.0	8791.0
57.5°	6979.7	7036.8	7492.4	8168.6	9063.3	9712.1	9858.1	9652.8	9568.3	9294.9
60°	6087.2	6178.3	6699.8	7547.3	8705.4	9711.0	10282.9	10227.0	10156.7	9791.1
62.5°	5077.2	5182.6	5684.3	6669.0	8079.7	9435.4	10548.6	10707.8	10671.6	10248.9
65°	3899.3	3971.8	4471.3	5532.8	7106.0	8843.7	10579.3	11036.0	11042.6	10596.9
67.5°	2596.3	2804.8	3238.5	4151.8	5801.8	7876.6	10309.3	11089.8	11153.5	10716.6
70°	1266.8	1541.3	1966.1	2698.4	4151.8	6393.5	9603.4	10648.5	10790.1	10367.5
72.5°	525.8	614.8	846.4	1331.6	2383.3	4314.3	8185.1	9451.9	9714.3	9186.3
75°	354.6	384.2	484.1	682.8	1085.7	2127.5	5902.8	7047.8	7470.4	6938.0
77.5°	273.3	292.0	352.4	477.5	645.5	804.7	3159.4	4247.3	4465.8	4134.3
80°	215.2	229.4	263.5	348.0	457.8	430.3	1076.9	1924.4	2050.7	1720.2
82.5°	186.6	192.1	188.8	236.0	304.1	251.4	353.5	710.3	783.8	568.7
85°	135.0	150.4	157.0	146.0	161.4	127.3	144.9	251.4	276.6	247.0
87.5°	54.9	81.2	99.9	94.4	59.3	36.2	45.0	73.6	84.5	92.2
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°
2317.4	0°	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4	2317.4
2318.5	2.5°	2319.6	2327.3	2332.8	2339.4	2343.8	2350.4	2363.5	2371.2	2372.3	2377.8
2336.1	5°	2340.5	2351.5	2363.5	2381.1	2400.9	2417.3	2442.6	2460.1	2466.7	2472.2
2378.9	7.5°	2385.5	2400.9	2422.8	2453.5	2482.1	2504.0	2534.8	2555.6	2576.5	2584.2
2447.0	10°	2452.4	2474.4	2506.2	2548.0	2578.7	2607.2	2639.1	2656.6	2677.5	2686.3
2528.2	12.5°	2535.9	2558.9	2600.6	2658.8	2687.4	2707.1	2718.1	2713.7	2718.1	2725.8
2625.9	15°	2631.4	2656.6	2703.8	2766.4	2786.2	2768.6	2744.5	2722.5	2719.2	2721.4
2744.5	17.5°	2744.5	2763.1	2818.0	2870.7	2856.4	2784.0	2731.3	2696.2	2678.6	2673.1
2896.0	20°	2902.5	2902.5	2947.5	2980.5	2885.0	2762.0	2679.7	2622.6	2586.4	2571.0
3102.3	22.5°	3094.7	3077.1	3105.6	3082.6	2879.5	2700.5	2586.4	2487.6	2432.7	2410.7
3391.1	25°	3338.4	3317.5	3309.8	3167.1	2840.0	2602.8	2417.3	2297.7	2249.4	2237.3
3807.1	27.5°	3706.1	3653.4	3553.5	3213.2	2767.5	2449.2	2219.7	2108.8	2081.4	2082.5
4341.7	30°	4195.7	4090.3	3845.5	3220.9	2649.0	2231.8	2017.7	1938.7	1925.5	1931.0
4790.7	32.5°	4649.1	4549.2	4144.1	3185.8	2466.7	2018.8	1836.6	1783.9	1764.1	1770.7
5133.2	35°	5004.8	4977.3	4420.8	3136.4	2242.8	1819.0	1674.1	1629.1	1590.7	1581.9
5456.0	37.5°	5340.7	5329.7	4628.3	3067.2	2021.0	1677.4	1543.5	1484.2	1428.2	1397.5
5812.8	40°	5709.6	5698.6	4764.4	2960.7	1824.5	1554.5	1426.0	1348.1	1278.9	1222.9
6216.7	42.5°	6124.5	6059.8	4829.1	2808.1	1657.7	1450.2	1330.5	1225.1	1134.0	1082.4
6673.4	45°	6577.9	6431.9	4828.1	2613.8	1517.1	1354.7	1228.4	1079.1	994.6	946.3
7142.2	47.5°	7058.7	6787.6	4768.8	2398.7	1381.0	1249.3	1070.3	956.2	900.2	870.5
7651.6	50°	7554.9	7120.2	4667.8	2151.7	1241.6	1129.6	971.5	893.6	850.8	823.3
8156.5	52.5°	8021.5	7422.1	4545.9	1871.7	1100.0	1013.3	927.6	867.2	822.2	791.5
8646.1	55°	8455.1	7682.3	4373.6	1585.2	984.7	935.3	906.8	856.3	804.7	768.4
9143.4	57.5°	8840.4	7851.3	4076.1	1316.2	902.4	881.5	884.8	837.6	778.3	747.6
9633.0	60°	9161.0	7975.4	3635.9	1067.0	835.4	828.8	850.8	802.5	733.3	698.2
10046.9	62.5°	9353.1	7973.2	3095.7	873.8	778.3	780.5	805.8	758.6	688.3	655.4
10263.2	65°	9336.6	7777.8	2502.9	747.6	723.4	725.6	758.6	710.3	651.0	631.2
10154.5	67.5°	9006.2	7301.4	1920.0	665.3	663.1	672.9	711.4	677.3	627.9	625.7
9506.8	70°	8111.5	6312.3	1383.2	599.4	600.5	614.8	665.3	656.5	615.9	620.2
7993.0	72.5°	6504.4	4812.7	928.7	530.2	531.3	554.4	621.3	640.0	603.8	662.0
5671.1	75°	4331.9	3001.3	597.2	456.7	457.8	487.4	582.9	608.2	570.8	659.8
2950.8	77.5°	2081.4	1349.2	432.5	384.2	384.2	411.7	503.9	544.5	486.3	512.7
948.5	80°	719.0	507.2	340.3	309.6	303.0	321.7	424.8	472.0	419.4	386.4
309.6	82.5°	283.2	263.5	273.3	240.4	218.5	230.5	330.4	389.7	308.5	278.8
174.5	85°	162.5	171.3	193.2	159.2	126.2	141.6	242.6	279.9	232.7	205.3
57.1	87.5°	43.9	60.4	88.9	82.3	57.1	60.4	115.3	154.8	133.9	103.2
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>
2317.4
2376.7
2471.1
2585.3
2690.7
2728.0
2729.1
2680.8
2567.7
2407.4
2239.5
2085.8
1949.7
1779.5
1588.5
1398.6
1228.4
1085.7
944.1
864.0
813.5
778.3
754.2
727.8
682.8
645.5
630.1
629.0
619.1
670.7
665.3
469.9
362.3
277.7
209.7
106.5
0.0

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