

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: P944065

Luminaire Tested: **GALN-SB8D-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73260 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

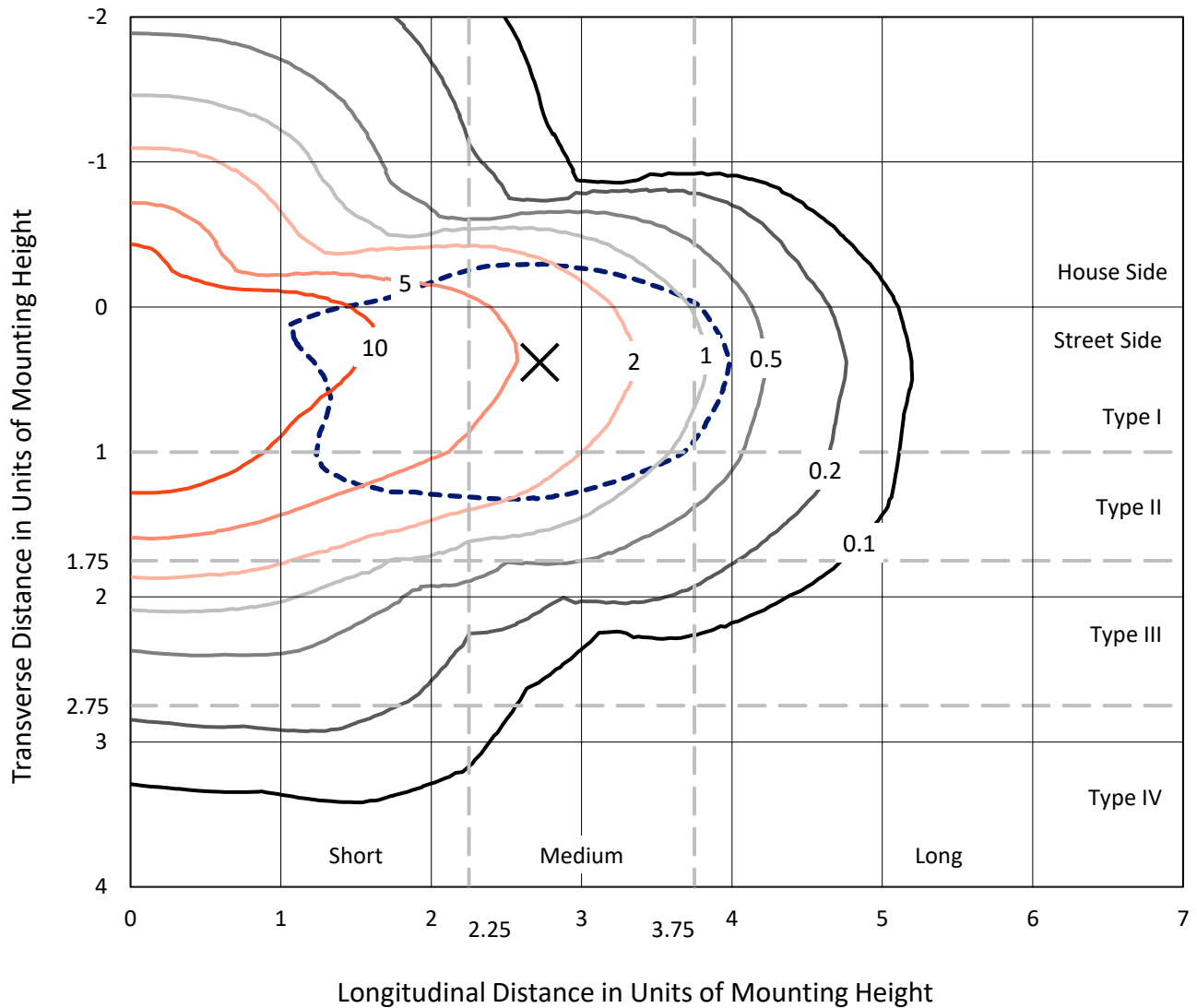
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

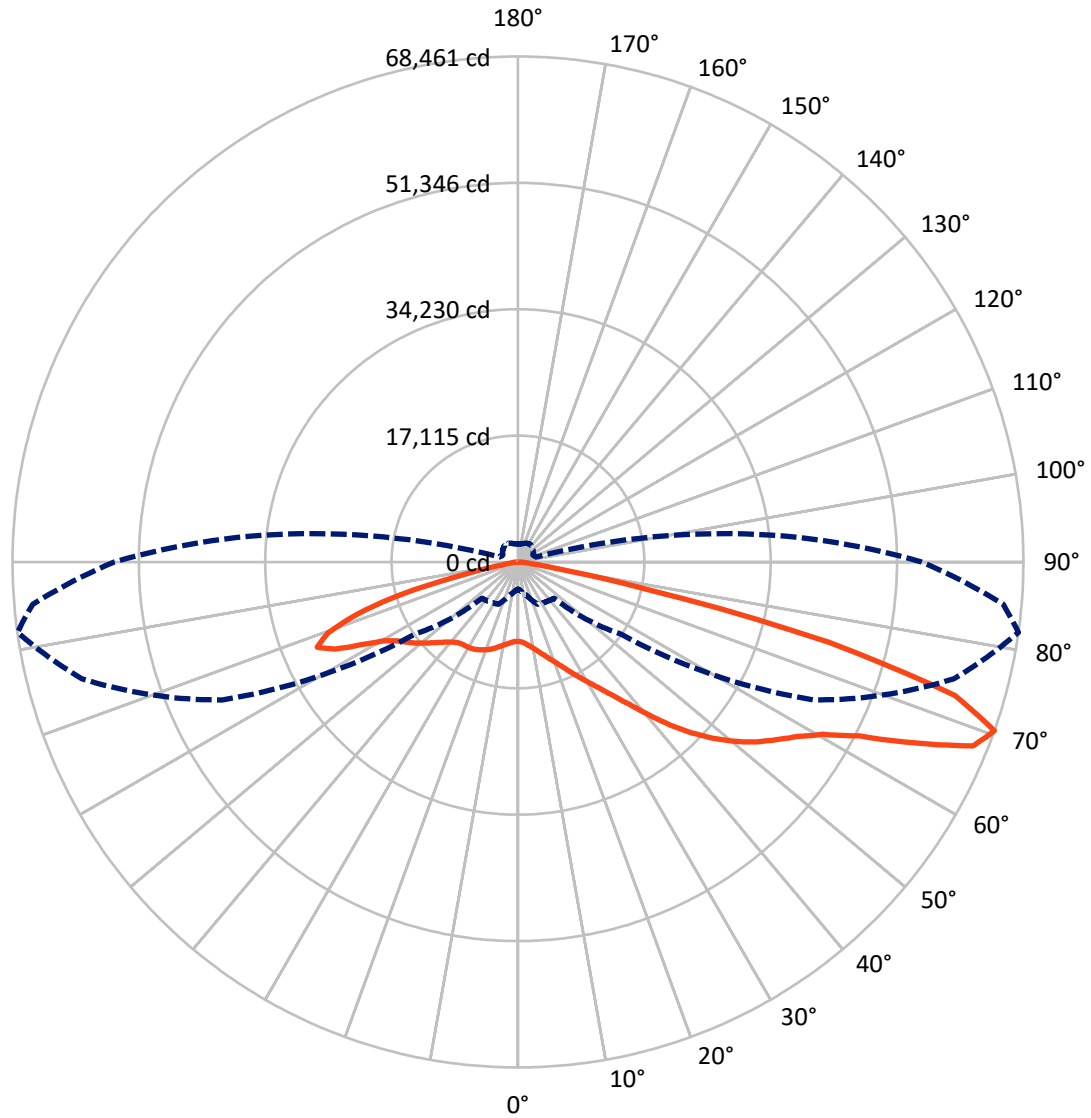
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18060.4	0.0	18060.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	55199.6	0.0	55199.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	73260.0	0.0	73260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.1	1.4
10°-20°	2913.6	4.0
20°-30°	4874.2	6.7
30°-40°	7614.8	10.4
40°-50°	12127.5	16.6
50°-60°	16876.8	23.0
60°-70°	17653.9	24.1
70°-80°	9226.9	12.6
80°-90°	958.1	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°	73260.0	100.0
0°-180°	73260.0	100.0

Coefficient of Utilization



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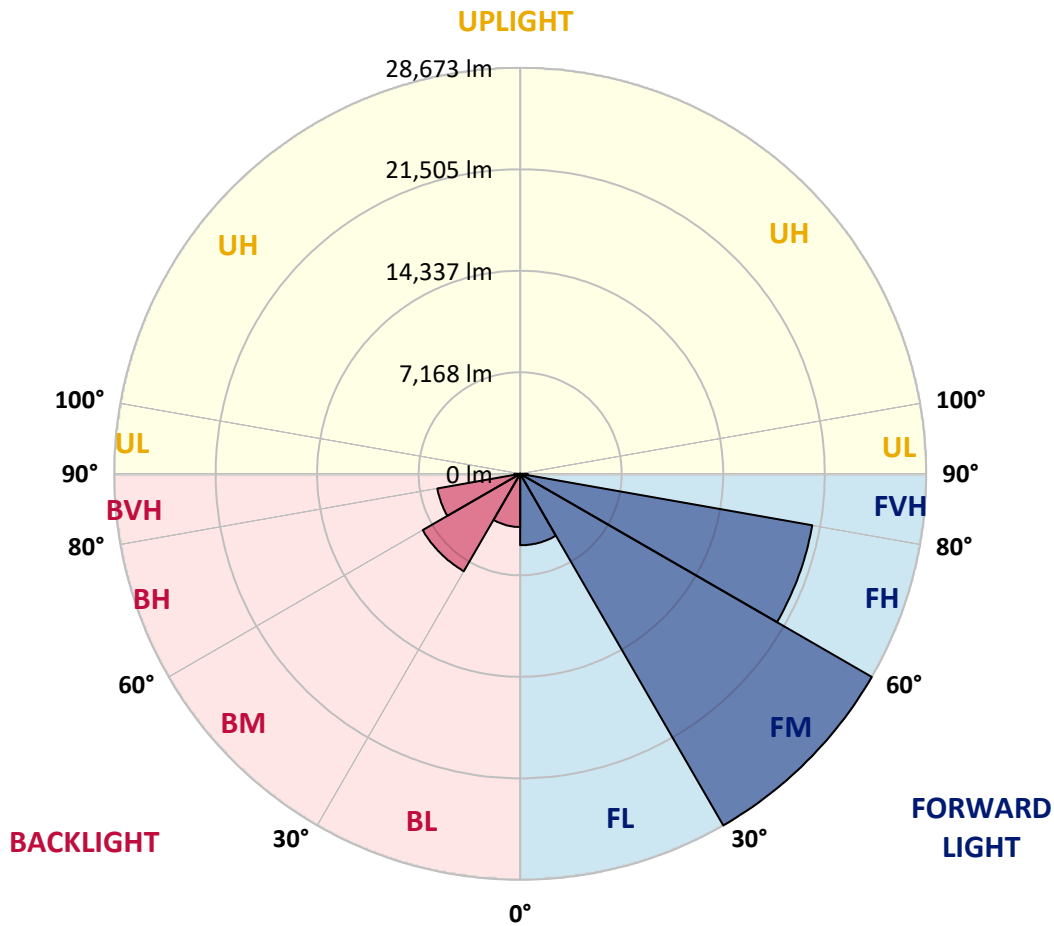
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5044.8	6.9			
FM (30°-60°)	28673.2	39.1			
FH (60°-80°)	20945.3	28.6			G5
FVH (80°-90°)	536.4	0.7			G4/750
BL (0°-30°)	3757.2	5.1	B4/5000		
BM (30°-60°)	7945.9	10.8	B4/8500		
BH (60°-80°)	5935.6	8.1	B5		G5
BVH (80°-90°)	421.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8
2.5°	10997.4	11059.6	11040.2	11020.7	11020.7	10993.5	10989.6	10950.8	10919.7	10869.1
5°	11137.3	11203.4	11195.7	11211.2	11261.7	11273.4	11285.1	11261.7	11199.5	11137.3
7.5°	11012.9	11086.8	11110.1	11203.4	11358.9	11498.9	11603.8	11646.6	11588.3	11498.9
10°	10593.1	10674.7	10756.4	10978.0	11254.0	11584.4	11864.3	12031.4	12019.8	11934.3
12.5°	9741.8	9827.3	10002.2	10433.7	10939.1	11522.2	12043.1	12393.0	12513.5	12451.3
15°	9061.5	9135.3	9267.5	9710.7	10367.6	11254.0	12109.2	12789.5	13096.6	13061.6
17.5°	9042.0	9073.1	9154.8	9364.7	9870.1	10834.1	12039.2	13178.2	13765.2	13761.3
20°	9384.1	9395.8	9442.4	9485.2	9772.9	10515.4	11860.4	13500.9	14515.5	14515.5
22.5°	9858.4	9850.6	9897.3	9858.4	9998.3	10488.2	11747.7	13784.7	15351.3	15413.5
25°	10569.8	10530.9	10519.3	10429.8	10457.1	10740.8	11872.1	14107.3	16342.5	16470.8
27.5°	11518.3	11456.1	11413.3	11207.3	11137.3	11261.7	12253.0	14496.0	17446.6	17668.1
30°	12754.5	12641.8	12579.6	12221.9	11969.2	11988.7	12828.4	15013.1	18601.1	18958.8
32.5°	14441.6	14266.7	14099.5	13512.5	13049.9	12898.3	13570.8	15728.3	19852.9	20424.3
35°	16330.9	16190.9	16012.1	15106.4	14395.0	14045.1	14573.8	16727.4	21318.4	22224.2
37.5°	18150.2	18029.7	18115.2	16894.6	15977.1	15467.9	15887.7	18068.5	23126.0	24463.3
40°	20031.7	19938.4	19950.0	18783.8	17714.8	17143.3	17481.5	19751.8	25198.0	27126.1
42.5°	22076.4	22006.5	21773.2	20739.2	19538.0	19005.4	19316.4	21695.5	27421.6	30158.3
45°	24366.1	24323.3	24105.6	22920.0	21543.9	20945.2	21365.0	23841.3	29656.8	33011.6
47.5°	26344.8	26379.8	26352.6	25353.5	23926.8	23048.3	23549.8	26080.4	31736.6	35693.9
50°	27297.2	27479.9	27748.1	27437.1	26550.8	25656.7	25753.9	28241.8	33719.1	38209.1
52.5°	26799.6	27145.6	27876.4	28374.0	28716.1	28529.5	28269.0	30387.7	35585.1	40479.3
55°	24945.3	25431.2	26644.1	27845.3	29590.7	30947.4	31289.5	32766.7	37404.4	42477.4
57.5°	21567.2	22356.3	23444.8	25874.4	28813.3	32117.5	34811.5	36067.1	39332.5	44611.6
60°	15775.0	16832.4	18185.2	21800.4	26092.1	31491.7	37808.7	41136.3	42073.1	47375.5
62.5°	10095.5	10748.6	11992.6	15397.9	20331.0	28284.6	38726.1	47472.7	46718.5	51908.2
65°	6911.8	7331.6	8470.6	10383.2	13143.2	21054.1	36269.3	52223.1	54096.8	59092.1
67.5°	5022.5	5341.3	6313.1	7988.6	8563.9	12459.1	28144.6	52005.4	61269.0	66493.6
70°	3661.9	3887.4	4703.7	6313.1	6589.1	6931.2	17050.1	44207.3	61113.5	68460.7
72.5°	2713.4	2868.9	3417.0	4898.1	5333.5	4680.4	8439.5	32129.2	52514.6	61922.1
75°	1963.1	2079.7	2484.0	3747.4	4268.3	3564.7	4210.0	18776.0	36630.8	43558.1
77.5°	1500.5	1589.9	1854.3	2744.5	3417.0	2674.5	2612.3	8637.8	17368.8	17454.3
80°	1205.1	1263.4	1407.2	1932.0	2620.1	2002.0	1702.7	3487.0	5489.0	4645.4
82.5°	886.3	983.5	1189.5	1356.7	1873.7	1380.0	1037.9	1761.0	2087.5	1796.0
85°	505.4	571.4	719.2	971.8	1197.3	843.6	594.8	781.4	971.8	796.9
87.5°	178.8	233.2	252.7	381.0	520.9	349.9	229.4	225.5	318.8	237.1
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°
10740.8	0°	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8	10740.8
10857.5	2.5°	10818.6	10799.1	10721.4	10616.4	10507.6	10402.6	10367.6	10293.8	10243.2	10216.0
11110.1	5°	11036.3	10974.1	10791.4	10558.1	10313.2	10048.9	9862.3	9691.2	9566.8	9450.2
11456.1	7.5°	11347.3	11238.4	10923.5	10515.4	10080.0	9640.7	9314.2	9065.4	8898.2	8789.4
11860.4	10°	11708.8	11541.6	11059.6	10449.3	9776.8	9147.0	8762.2	8548.3	8443.4	8385.1
12323.0	12.5°	12124.7	11887.6	11199.5	10297.7	9314.2	8595.0	8330.7	8268.5	8272.3	8276.2
12906.1	15°	12637.9	12307.4	11312.3	9967.2	8711.6	8171.3	8124.6	8225.7	8330.7	8381.2
13567.0	17.5°	13217.1	12750.6	11331.7	9423.0	8120.7	7899.2	8046.9	8264.6	8424.0	8493.9
14305.6	20°	13839.1	13201.5	11191.8	8653.3	7634.8	7677.6	7941.9	8221.8	8396.7	8486.2
15149.1	22.5°	14550.5	13683.6	10857.5	7844.7	7238.3	7436.6	7747.5	8019.7	8202.4	8291.8
16140.4	25°	15362.9	14223.9	10332.7	7164.4	6896.2	7164.4	7475.4	7700.9	7848.6	7930.3
17248.3	27.5°	16264.8	14787.6	9632.9	6624.1	6596.9	6884.6	7141.1	7316.0	7393.8	7456.0
18426.2	30°	17170.6	15300.7	8785.5	6215.9	6336.4	6608.5	6791.3	6869.0	6892.3	6904.0
19740.1	32.5°	18150.2	15743.9	7895.3	5877.7	6087.6	6340.3	6449.2	6484.2	6375.3	6301.4
21333.9	35°	19335.8	16218.2	7024.5	5609.5	5842.7	6060.4	6095.4	6064.3	5936.0	5784.4
23332.1	37.5°	20801.4	16809.0	6328.7	5419.0	5613.4	5757.2	5714.4	5706.7	5718.3	5539.5
25734.5	40°	22597.3	17578.7	5819.4	5271.3	5426.8	5457.9	5337.4	5403.5	5461.8	5189.7
28370.1	42.5°	24591.6	18507.8	5496.8	5170.2	5271.3	5197.4	5010.8	5084.7	5076.9	4719.3
31017.4	45°	26624.7	19518.5	5384.0	5096.4	5127.5	4979.7	4773.7	4793.1	4629.9	4307.2
33555.9	47.5°	28646.1	20603.1	5454.0	5034.2	4948.6	4781.5	4622.1	4536.6	4295.6	4054.5
35989.4	50°	30628.7	21742.1	5710.6	4909.8	4703.7	4606.5	4489.9	4338.3	4081.7	3875.7
38290.7	52.5°	32467.4	22888.9	5998.2	4703.7	4396.6	4454.9	4381.1	4206.1	3953.5	3743.5
40467.6	55°	34208.9	24035.7	6111.0	4420.0	4109.0	4322.8	4280.0	3957.4	3654.1	3483.1
42745.6	57.5°	36106.0	25415.7	5986.6	4058.4	3875.7	4171.2	4007.9	3650.3	3475.3	3347.0
45711.7	60°	38733.9	27581.0	5718.3	3611.4	3654.1	3945.7	3665.8	3518.1	3327.6	3183.8
50158.9	62.5°	43099.4	31620.0	5286.8	3168.2	3393.7	3611.4	3502.5	3354.8	3160.4	3020.5
57762.6	65°	49552.4	37233.3	4474.4	2822.2	3102.1	3284.8	3327.6	3179.9	2977.7	2830.0
64425.6	67.5°	54994.8	40755.3	3385.9	2534.6	2802.8	3020.5	3141.0	2997.2	2783.4	2639.5
65984.4	70°	54695.4	38197.4	2585.1	2250.8	2538.5	2760.0	2915.5	2802.8	2573.4	2437.4
59935.6	72.5°	48580.6	31954.3	2091.4	1963.1	2270.2	2487.9	2674.5	2589.0	2355.8	2223.6
43908.0	75°	35690.0	22682.9	1671.6	1671.6	1935.9	2204.1	2410.2	2355.8	2141.9	2048.6
18434.0	77.5°	15044.2	9516.3	1310.0	1387.8	1609.4	1893.2	2149.7	2169.2	1982.6	2099.2
4874.8	80°	4000.1	2624.0	999.1	1092.4	1263.4	1562.7	1869.8	1862.1	1659.9	1551.1
1811.5	82.5°	1523.9	1034.0	711.4	769.7	913.5	1197.3	1481.1	1527.7	1325.6	1146.8
711.4	85°	587.0	443.2	439.3	462.6	532.6	793.0	1119.6	1158.4	999.1	847.4
198.3	87.5°	151.6	132.2	163.3	155.5	244.9	423.7	641.4	664.7	610.3	353.8
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>
10740.8
10247.1
9496.9
8812.7
8400.6
8284.0
8377.3
8509.5
8509.5
8315.1
7953.6
7479.3
6931.2
6324.8
5792.2
5551.2
5197.4
4715.4
4318.9
4054.5
3860.2
3747.4
3467.5
3335.4
3176.0
3020.5
2837.8
2643.4
2449.0
2223.6
2021.4
1904.8
1442.2
1146.8
874.7
505.4
0.0

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