

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: P957415

Luminaire Tested: **GALN-SB9D-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957415
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-SB9D-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 97467 lumens
Efficiency: N/A
Efficacy: 148.1 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

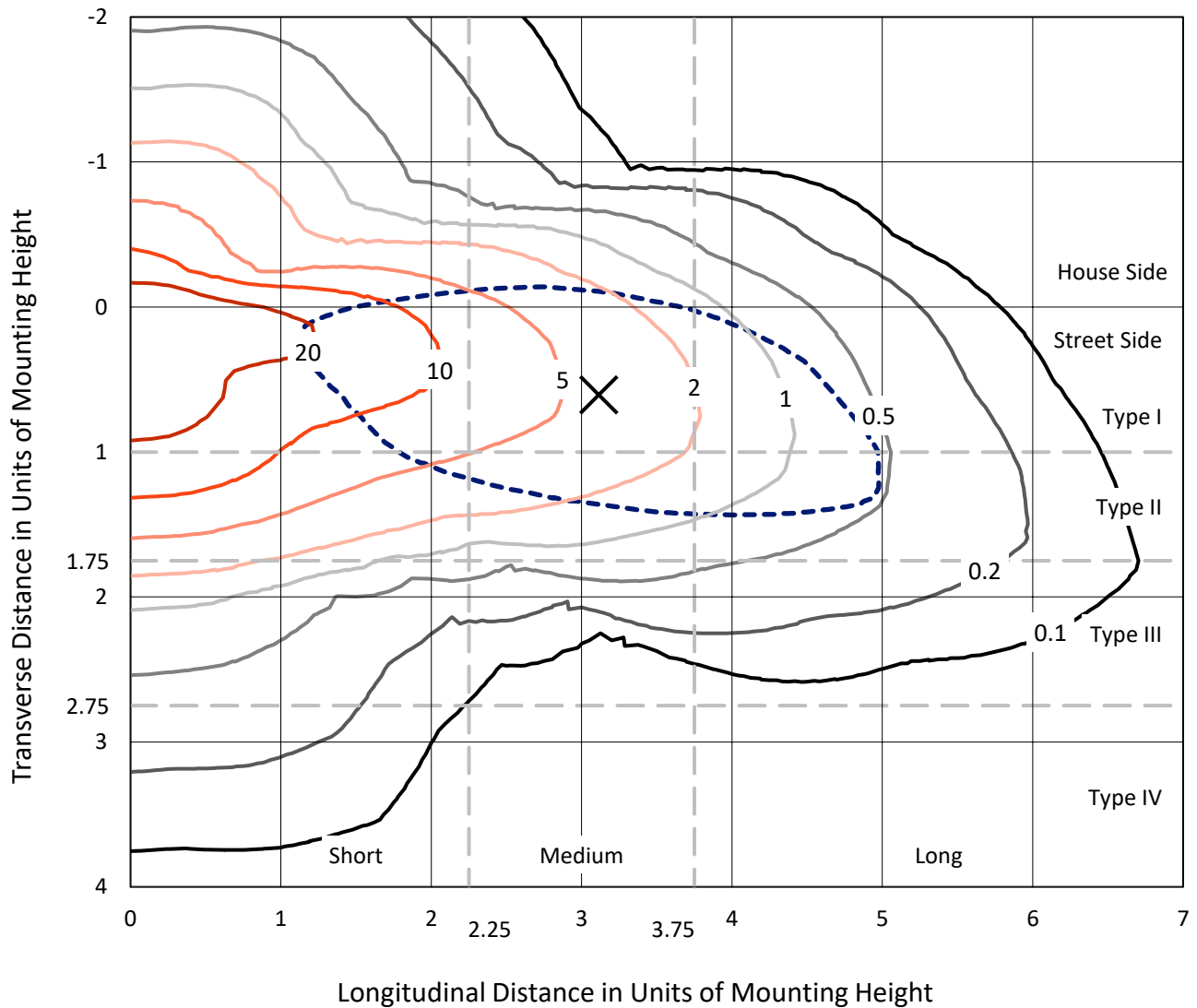
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

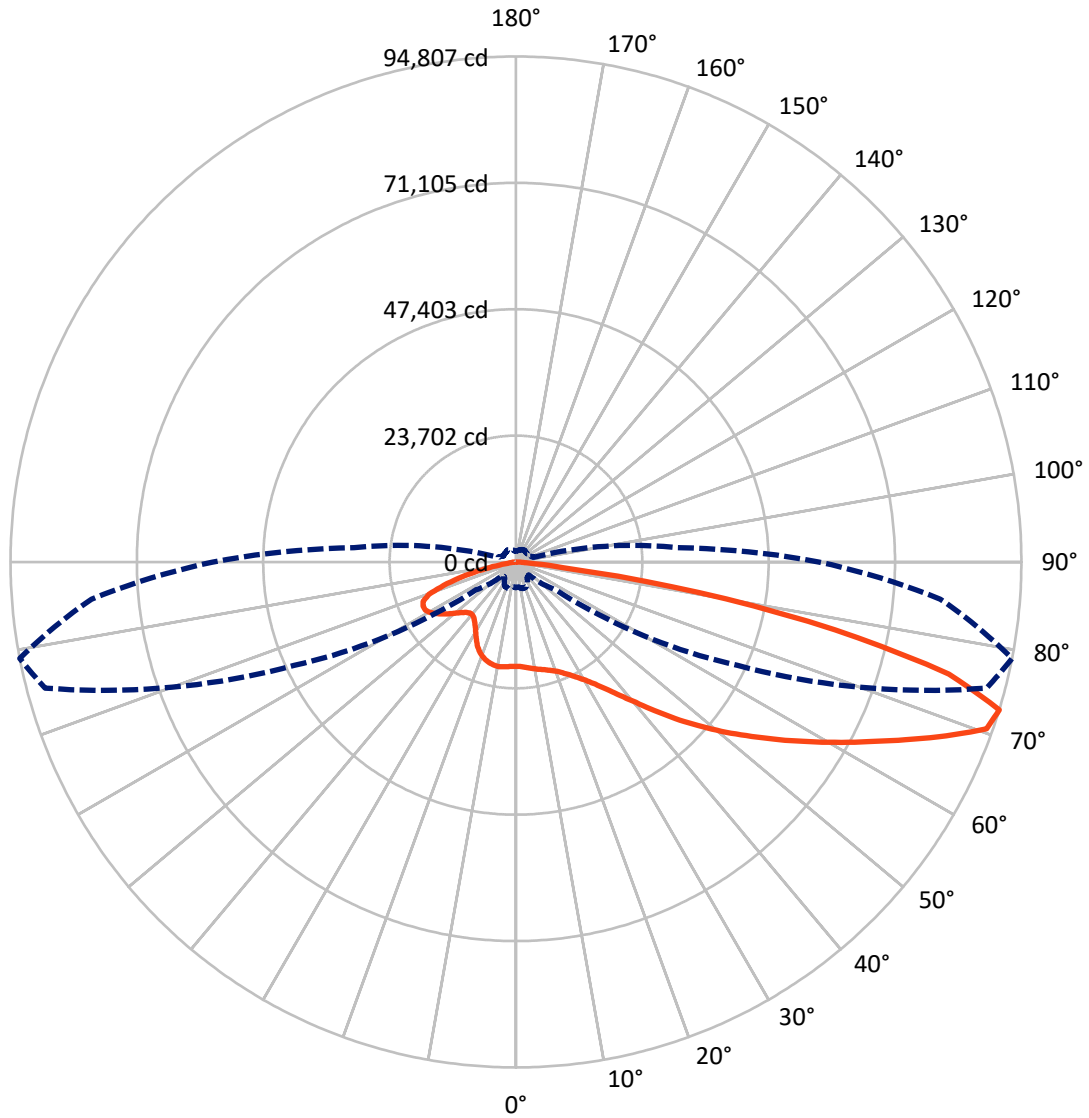
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.4 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	21448.1	0.0	21448.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	76018.9	0.0	76018.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	97467.0	0.0	97467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1776.0	1.8
10°-20°	4643.3	4.8
20°-30°	7492.4	7.7
30°-40°	11245.1	11.5
40°-50°	15951.8	16.4
50°-60°	20145.0	20.7
60°-70°	20459.9	21.0
70°-80°	13944.4	14.3
80°-90°	1809.2	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°	97467.0	100.0
0°-180°	97467.0	100.0



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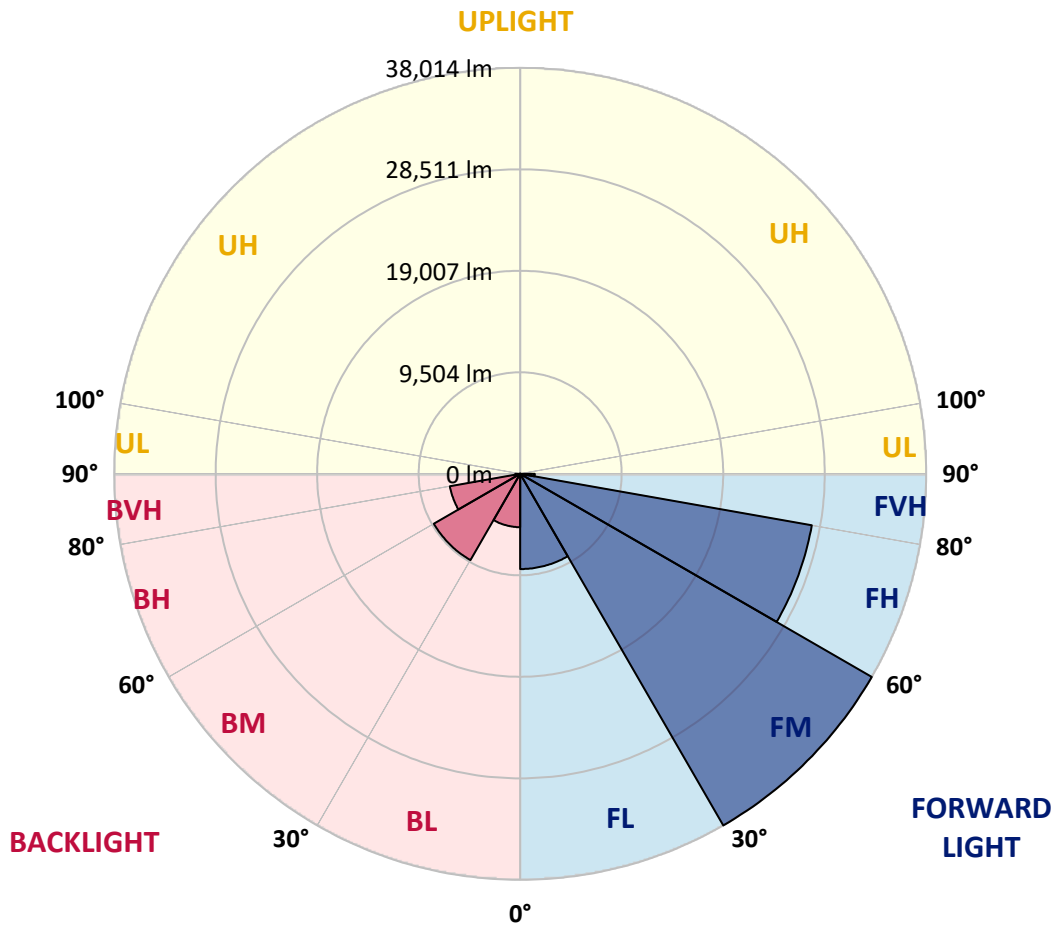
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8915.9	9.1			
FM (30°-60°)	38014.1	39.0			
FH (60°-80°)	27726.1	28.4			G5
FVH (80°-90°)	1362.9	1.4			G5
BL (0°-30°)	4995.9	5.1	B4/5000		
BM (30°-60°)	9327.7	9.6	B5		
BH (60°-80°)	6678.2	6.9	B5		G5
BVH (80°-90°)	446.3	0.5			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°	79°
0°	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6
2.5°	19575.9	19483.1	19539.8	19519.2	19545.0	19575.9	19586.2	19601.7	19653.2	19648.1
5°	19534.6	19441.8	19519.2	19493.4	19560.4	19632.6	19694.5	19751.2	19833.7	19869.8
7.5°	19447.0	19385.1	19462.5	19539.8	19663.5	19771.8	19859.4	19988.3	20106.9	20127.5
10°	18936.6	18890.2	19070.6	19271.7	19612.0	19905.8	20096.6	20246.1	20375.0	20395.6
12.5°	18405.6	18348.8	18549.9	18823.2	19374.8	19905.8	20308.0	20503.9	20617.3	20684.3
15°	18317.9	18271.5	18384.9	18622.1	19080.9	19766.6	20452.3	20813.2	20911.2	20988.5
17.5°	18740.7	18653.0	18699.4	18781.9	19050.0	19637.8	20565.8	21163.8	21313.3	21395.8
20°	19720.2	19596.5	19524.3	19359.3	19312.9	19658.4	20555.5	21586.6	21782.5	21885.6
22.5°	21024.6	20942.1	20787.5	20369.9	19916.2	19911.0	20751.4	22127.9	22494.0	22591.9
25°	22602.2	22478.5	22282.6	21715.5	20844.2	20411.1	21081.3	22818.8	23432.3	23458.1
27.5°	24417.0	24231.4	23963.3	23215.8	22040.3	21194.7	21586.6	23612.7	24509.8	24499.5
30°	26329.7	26144.1	25860.6	24953.2	23473.5	22251.7	22287.7	24468.6	25788.4	25731.7
32.5°	27726.9	27587.7	27531.0	26829.8	25123.3	23499.3	23092.0	25417.2	27366.0	27314.5
35°	28799.3	28618.8	28685.9	28330.1	26922.6	24896.5	24076.7	26546.3	29283.9	29278.8
37.5°	29861.3	29701.5	29758.2	29521.1	28587.9	26670.0	25278.0	27928.0	31660.7	31774.1
40°	30830.6	30660.5	30887.3	30665.6	29882.0	28557.0	26644.2	29490.1	34413.8	34630.3
42.5°	31413.2	31279.1	31655.5	31660.7	31005.9	30150.1	28144.5	31212.1	37599.9	38084.6
45°	31614.3	31567.9	32135.0	32253.6	32000.9	31072.9	29495.3	33088.8	41033.6	41899.7
47.5°	31397.7	31310.1	32093.7	32532.0	32733.0	31506.0	30614.1	35120.1	44539.4	45807.7
50°	30304.7	30134.6	31299.8	32222.6	32939.2	31789.5	31743.1	37465.9	48524.7	49911.5
52.5°	28340.4	28211.5	29536.5	31139.9	32485.6	31928.7	33011.4	40028.2	52308.9	54103.1
55°	25829.7	25659.5	27118.6	29211.7	31356.5	31882.3	34279.7	42894.7	56773.7	58593.6
57.5°	21849.5	21509.2	23355.0	25829.7	29515.9	31825.6	35599.5	45745.8	61310.6	63491.4
60°	16044.3	15539.0	17802.4	20735.9	25917.3	31274.0	37233.9	48942.3	66755.0	68719.2
62.5°	9342.0	9048.1	10527.8	13265.4	19534.6	28025.9	38151.6	52659.5	72106.5	74168.7
65°	7254.0	7171.5	7300.4	7511.7	10873.2	20983.4	35321.1	56283.9	78911.9	80355.5
67.5°	6635.3	6573.4	6630.1	6233.1	5516.5	11687.8	27943.5	57201.6	86201.9	87078.4
70°	5898.0	5825.8	6011.5	5671.2	4341.0	5315.4	18055.0	53871.1	92002.0	93646.7
72.5°	4805.0	4722.5	5155.6	5001.0	3655.3	3413.0	9068.7	45957.2	91393.7	94806.7
75°	3691.4	3645.0	4160.6	4289.5	2979.9	2686.1	4351.3	34161.1	80427.7	83866.5
77.5°	2866.5	2830.4	3093.4	3562.5	2402.5	2082.9	2675.8	21669.1	60609.5	61212.7
80°	2149.9	2046.8	2289.1	2758.3	1871.5	1520.9	1814.8	12636.4	38311.4	34728.2
82.5°	1345.6	1294.1	1495.1	1840.6	1319.8	1046.6	1180.6	6980.7	15353.4	9043.0
85°	768.2	747.6	814.6	1051.7	716.6	603.2	675.4	3083.1	2804.7	1928.2
87.5°	309.3	299.0	371.2	469.2	262.9	221.7	237.2	742.4	618.7	572.3
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°
19565.6	0°	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6	19565.6
19642.9	2.5°	19622.3	19622.3	19550.1	19436.7	19307.8	19225.3	19091.3	19055.2	18916.0	18874.7
19818.2	5°	19859.4	19818.2	19596.5	19276.9	18838.6	18436.5	17993.1	17714.7	17322.9	17183.7
20163.6	7.5°	20158.5	20045.0	19663.5	18962.4	18044.7	17142.4	16204.1	15492.6	14812.1	14569.8
20447.2	10°	20431.7	20271.9	19622.3	18395.2	16807.3	15245.2	13750.0	12703.4	11909.5	11584.7
20761.7	12.5°	20705.0	20411.1	19349.0	17451.8	15049.3	12930.3	11337.2	10522.6	10032.8	9641.0
21019.5	15°	20962.7	20550.3	18926.3	16188.6	13121.0	10971.2	9795.7	9146.1	8754.2	8496.5
21395.8	17.5°	21261.8	20668.9	18292.1	14585.2	11285.6	9615.2	8656.3	8264.5	8187.1	8156.2
21911.4	20°	21679.4	20777.1	17456.9	12791.1	9934.9	8532.5	8037.6	8001.5	7996.4	7980.9
22530.1	22.5°	22127.9	20906.0	16353.6	11161.9	8785.2	7857.2	7769.5	7697.3	7650.9	7645.8
23277.6	25°	22658.9	20947.3	14971.9	9826.6	7805.6	7537.5	7434.4	7326.1	7295.2	7295.2
24128.3	27.5°	23174.5	20808.1	13363.4	8666.6	7254.0	7243.6	7109.6	7073.5	7068.4	7083.8
25097.6	30°	23690.1	20545.1	11765.1	7594.2	6934.3	6934.3	6887.9	6913.7	6934.3	6985.9
26427.7	32.5°	24386.1	20266.7	10429.8	6800.3	6655.9	6604.3	6650.7	6702.3	6722.9	6790.0
28175.5	35°	25406.9	20070.8	9367.8	6367.2	6367.2	6300.2	6325.9	6315.6	6269.2	6238.3
30289.3	37.5°	26757.7	20060.5	8491.3	6166.1	6124.9	6114.6	6119.7	6052.7	5872.2	5655.7
32846.4	40°	28381.7	20338.9	7815.9	6026.9	5996.0	6057.9	6026.9	5846.5	5351.5	4975.2
35991.4	42.5°	30562.5	21132.9	7382.8	5856.8	5949.6	6026.9	5903.2	5279.4	4944.2	4691.6
39574.5	45°	33130.0	22421.8	7161.2	5676.3	5861.9	5954.7	5356.7	5083.4	4815.3	4511.2
43482.5	47.5°	36037.8	24045.8	7109.6	5506.2	5666.0	5722.7	5124.7	5001.0	4696.8	4366.8
47411.1	50°	39203.3	25968.9	7248.8	5305.1	5382.5	5186.6	5047.4	4933.9	4619.4	4294.6
51437.6	52.5°	42477.1	28087.8	7527.2	5031.9	5098.9	4882.4	5016.4	4918.5	4573.0	4134.8
55598.2	55°	45694.2	30222.2	7795.3	4712.2	4810.2	4609.1	4928.8	4856.6	4361.7	3866.7
60037.2	57.5°	48962.9	32346.4	8058.2	4428.7	4531.8	4346.2	4789.6	4691.6	4124.5	3619.2
64883.5	60°	52360.5	34408.6	8182.0	4155.4	4227.6	4103.9	4578.2	4408.1	3856.4	3366.6
69647.3	62.5°	55541.5	36125.4	7980.9	3882.2	3928.6	3877.0	4299.8	4072.9	3588.3	3083.1
74612.1	65°	58732.8	37146.2	7362.2	3614.1	3624.4	3598.6	3908.0	3712.0	3273.8	2835.6
78958.3	67.5°	61625.1	37718.5	6377.5	3325.4	3299.6	3289.3	3541.9	3320.2	2969.6	2588.1
82263.1	70°	62238.6	36264.6	4872.1	2985.1	2985.1	2959.3	3139.8	2912.9	2634.5	2325.2
79896.6	72.5°	56845.9	30505.8	3459.4	2598.4	2639.7	2588.1	2737.6	2546.9	2294.3	2088.0
68858.4	75°	45838.6	22370.2	2515.9	2201.4	2273.6	2186.0	2325.2	2191.1	1974.6	1969.4
47452.3	77.5°	31495.7	13832.5	1825.1	1814.8	1866.3	1752.9	1912.7	1840.6	1644.6	1557.0
20653.4	80°	13440.7	5516.5	1330.1	1402.3	1402.3	1299.2	1484.8	1505.4	1335.3	1294.1
3985.3	82.5°	2675.8	1567.3	933.2	964.1	907.4	876.5	1051.7	1165.2	1608.6	1789.0
1201.3	85°	804.3	577.4	562.0	525.9	464.0	469.2	618.7	1170.3	1443.6	824.9
397.0	87.5°	221.7	144.4	149.5	118.6	98.0	128.9	211.4	886.8	484.6	206.2
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>
19565.6
18941.7
17286.8
14600.7
11656.9
9769.9
8542.9
8176.8
8032.5
7702.5
7326.1
7125.1
7022.0
6846.7
6310.5
5660.9
4964.9
4681.3
4490.5
4341.0
4258.5
4103.9
3840.9
3608.9
3351.2
3077.9
2804.7
2557.2
2314.9
2026.2
1773.5
1459.0
1294.1
1794.2
711.5
175.3
0.0

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