

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: P957142

Luminaire Tested: **GALN-SB9C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957142
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-SB9C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60922 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

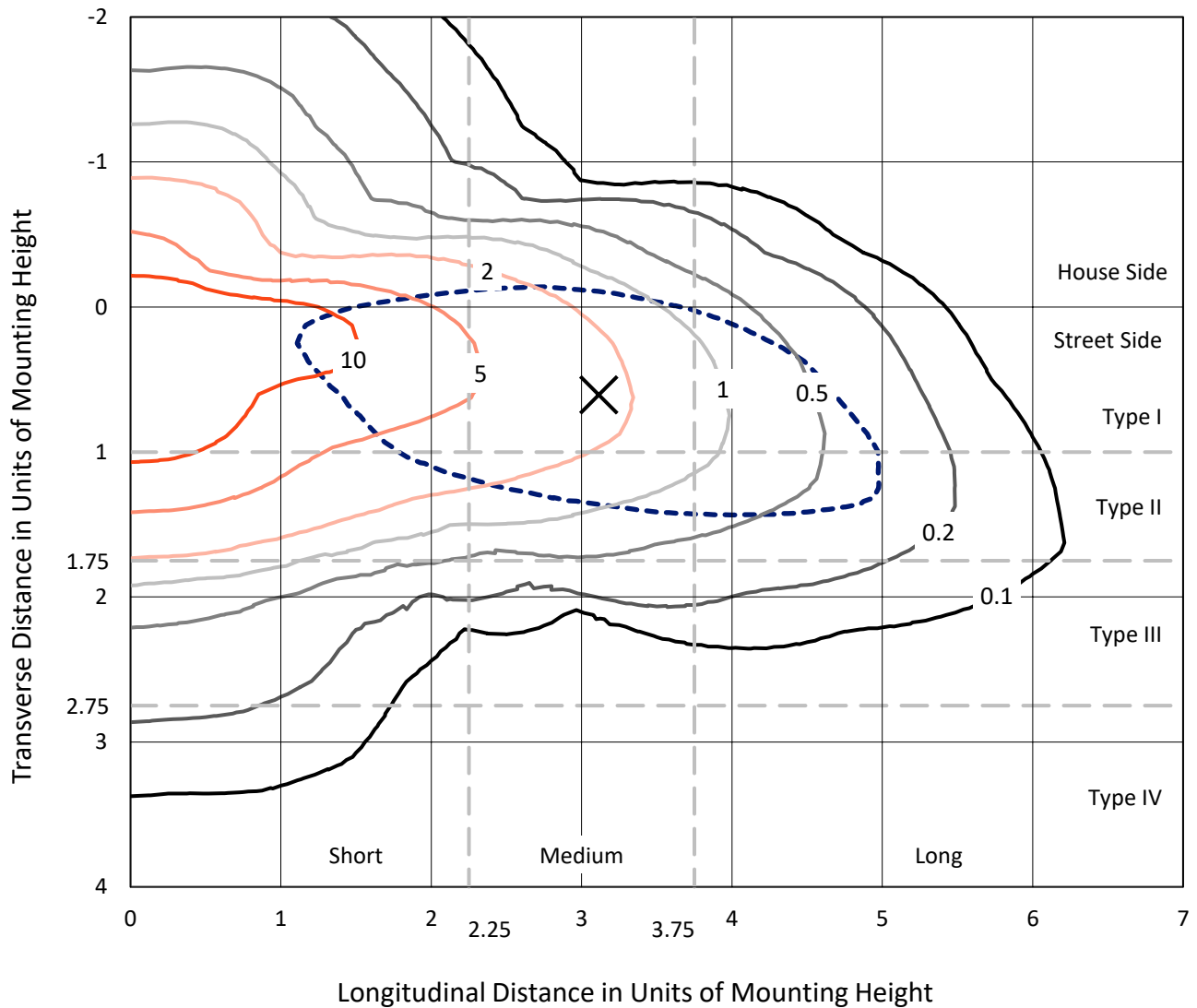
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957142
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Iso-Footcandle Lines of Horizontal Illumination

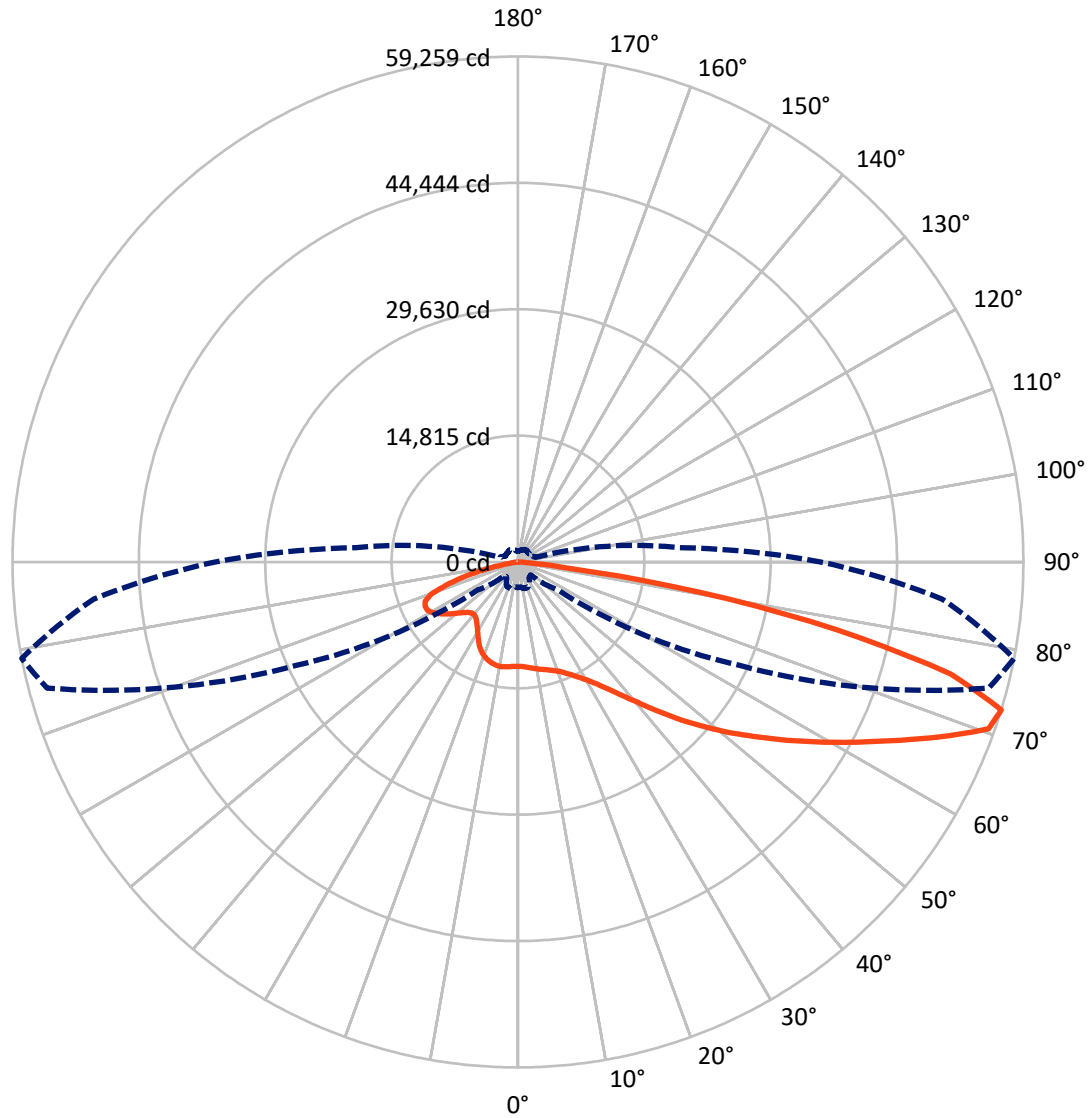
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P957142
CATALOG NUMBER: GALN-SB9C-830-U-SL2

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	13406.2	0.0	13406.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	47515.8	0.0	47515.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	60922.0	0.0	60922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.1	1.8
10°-20°	2902.3	4.8
20°-30°	4683.2	7.7
30°-40°	7028.8	11.5
40°-50°	9970.7	16.4
50°-60°	12591.7	20.7
60°-70°	12788.5	21.0
70°-80°	8716.0	14.3
80°-90°	1130.8	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°	60922.0	100.0
0°-180°	60922.0	100.0



REPORT NUMBER: P957142

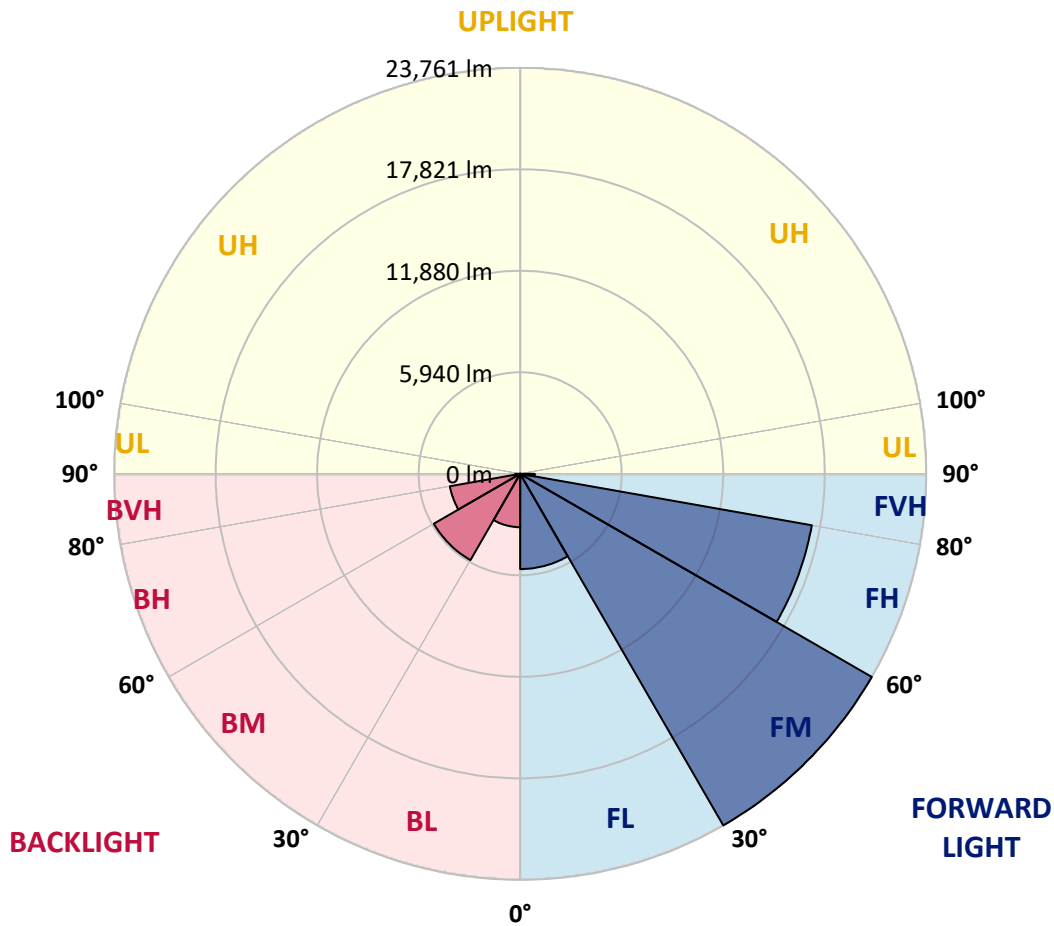
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5572.9	9.1			
FM (30°-60°)	23760.8	39.0			
FH (60°-80°)	17330.2	28.4			G5
FVH (80°-90°)	851.9	1.4			G5
BL (0°-30°)	3122.7	5.1	B4/5000		
BM (30°-60°)	5830.3	9.6	B4/8500		
BH (60°-80°)	4174.3	6.9	B4/5000		G4/5000
BVH (80°-90°)	279.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P957142
 CATALOG NUMBER: GALN-SB9C-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5
2.5°	12236.0	12178.0	12213.4	12200.5	12216.6	12236.0	12242.4	12252.1	12284.3	12281.1
5°	12210.2	12152.2	12200.5	12184.4	12226.3	12271.4	12310.1	12345.5	12397.1	12419.6
7.5°	12155.4	12116.7	12165.1	12213.4	12290.7	12358.4	12413.2	12493.8	12567.9	12580.8
10°	11836.4	11807.4	11920.1	12045.8	12258.5	12442.2	12561.4	12654.9	12735.4	12748.3
12.5°	11504.4	11469.0	11594.7	11765.5	12110.3	12442.2	12693.6	12816.0	12886.9	12928.8
15°	11449.7	11420.7	11491.6	11639.8	11926.6	12355.2	12783.8	13009.4	13070.6	13118.9
17.5°	11713.9	11659.1	11688.1	11739.7	11907.3	12274.6	12854.7	13228.5	13322.0	13373.5
20°	12326.2	12248.8	12203.7	12100.6	12071.6	12287.5	12848.2	13492.7	13615.2	13679.7
22.5°	13141.5	13089.9	12993.3	12732.2	12448.6	12445.4	12970.7	13831.1	14059.9	14121.1
25°	14127.6	14050.2	13927.8	13573.3	13028.7	12758.0	13176.9	14262.9	14646.4	14662.5
27.5°	15261.9	15145.9	14978.3	14511.1	13776.3	13247.8	13492.7	14759.2	15319.9	15313.5
30°	16457.5	16341.5	16164.2	15597.1	14672.2	13908.5	13931.0	15294.1	16119.1	16083.7
32.5°	17330.8	17243.8	17208.3	16770.1	15703.4	14688.3	14433.7	15887.1	17105.2	17073.0
35°	18001.1	17888.3	17930.2	17707.8	16828.1	15561.6	15049.2	16592.8	18304.0	18300.8
37.5°	18664.9	18565.0	18600.5	18452.2	17868.9	16670.2	15800.1	17456.5	19789.6	19860.5
40°	19270.7	19164.4	19306.2	19167.6	18677.8	17849.6	16654.0	18432.9	21510.4	21645.8
42.5°	19634.9	19551.1	19786.4	19789.6	19380.3	18845.4	17591.8	19509.2	23501.9	23804.9
45°	19760.6	19731.6	20086.0	20160.2	20002.3	19422.2	18436.1	20682.2	25648.1	26189.5
47.5°	19625.2	19570.4	20060.3	20334.2	20459.9	19692.9	19135.4	21951.9	27839.5	28632.2
50°	18942.0	18835.7	19564.0	20140.8	20588.8	19870.1	19841.1	23418.1	30330.5	31197.3
52.5°	17714.3	17633.7	18461.9	19464.1	20305.2	19957.1	20633.9	25019.7	32695.8	33817.3
55°	16144.9	16038.5	16950.5	18258.9	19599.4	19928.1	21426.6	26811.5	35486.5	36624.1
57.5°	13657.1	13444.4	14598.1	16144.9	18449.0	19892.7	22251.6	28593.5	38322.4	39685.5
60°	10028.5	9712.7	11127.4	12961.0	16199.7	19547.9	23273.1	30591.5	41725.4	42953.1
62.5°	5839.2	5655.5	6580.4	8291.6	12210.2	17517.7	23846.7	32915.0	45070.3	46359.4
65°	4534.1	4482.5	4563.1	4695.2	6796.3	13115.7	22077.6	35180.4	49324.1	50226.4
67.5°	4147.4	4108.7	4144.2	3896.0	3448.1	7305.5	17466.1	35754.0	53880.7	54428.6
70°	3686.6	3641.5	3757.5	3544.8	2713.4	3322.4	11285.3	33672.2	57506.1	58534.1
72.5°	3003.4	2951.8	3222.5	3125.9	2284.8	2133.3	5668.4	28725.7	57125.8	59259.2
75°	2307.3	2278.3	2600.6	2681.1	1862.6	1678.9	2719.8	21352.5	50271.5	52420.9
77.5°	1791.7	1769.2	1933.5	2226.8	1501.7	1301.9	1672.5	13544.3	37884.1	38261.1
80°	1343.8	1279.3	1430.8	1724.1	1169.8	950.6	1134.3	7898.4	23946.6	21707.0
82.5°	841.1	808.9	934.5	1150.4	825.0	654.2	738.0	4363.3	9596.7	5652.3
85°	480.2	467.3	509.2	657.4	447.9	377.0	422.2	1927.1	1753.1	1205.2
87.5°	193.4	186.9	232.0	293.3	164.3	138.6	148.2	464.0	386.7	357.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957142
 CATALOG NUMBER: GALN-SB9C-830-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
12229.5	0°	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5	12229.5
12277.9	2.5°	12265.0	12265.0	12219.8	12148.9	12068.4	12016.8	11933.0	11910.5	11823.5	11797.7
12387.4	5°	12413.2	12387.4	12248.8	12049.1	11775.1	11523.8	11246.6	11072.6	10827.7	10740.7
12603.3	7.5°	12600.1	12529.2	12290.7	11852.5	11278.9	10714.9	10128.4	9683.7	9258.3	9106.9
12780.6	10°	12770.9	12671.0	12265.0	11498.0	10505.5	9529.0	8594.5	7940.3	7444.1	7241.0
12977.1	12.5°	12941.7	12758.0	12094.2	10908.3	9406.6	8082.1	7086.3	6577.2	6271.0	6026.1
13138.3	15°	13102.8	12845.0	11829.9	10118.8	8201.3	6857.5	6122.8	5716.8	5471.9	5310.7
13373.5	17.5°	13289.7	12919.1	11433.5	9116.5	7054.1	6010.0	5410.6	5165.7	5117.4	5098.0
13695.8	20°	13550.8	12986.8	10911.5	7995.1	6209.8	5333.3	5023.9	5001.4	4998.1	4988.5
14082.5	22.5°	13831.1	13067.4	10221.9	6976.8	5491.2	4911.1	4856.4	4811.2	4782.2	4779.0
14549.7	25°	14163.0	13093.2	9358.2	6142.1	4878.9	4711.3	4646.9	4579.2	4559.9	4559.9
15081.5	27.5°	14485.3	13006.1	8352.8	5417.1	4534.1	4527.7	4443.9	4421.3	4418.1	4427.8
15687.3	30°	14807.5	12841.8	7353.8	4746.8	4334.3	4334.3	4305.3	4321.4	4334.3	4366.5
16518.7	32.5°	15242.6	12667.8	6519.2	4250.5	4160.3	4128.1	4157.1	4189.3	4202.2	4244.1
17611.1	35°	15880.6	12545.3	5855.3	3979.8	3979.8	3937.9	3954.0	3947.6	3918.6	3899.3
18932.4	37.5°	16724.9	12538.9	5307.5	3854.1	3828.4	3821.9	3825.1	3783.3	3670.5	3535.1
20530.8	40°	17740.0	12712.9	4885.4	3767.1	3747.8	3786.5	3767.1	3654.4	3345.0	3109.7
22496.5	42.5°	19103.2	13209.2	4614.7	3660.8	3718.8	3767.1	3689.8	3299.9	3090.4	2932.5
24736.2	45°	20708.0	14014.8	4476.1	3548.0	3664.0	3722.0	3348.2	3177.4	3009.8	2819.7
27178.8	47.5°	22525.5	15029.9	4443.9	3441.7	3541.6	3577.0	3203.2	3125.9	2935.7	2729.5
29634.4	50°	24504.1	16231.9	4530.9	3316.0	3364.3	3241.9	3154.9	3084.0	2887.4	2684.4
32151.2	52.5°	26550.4	17556.4	4704.9	3145.2	3187.1	3051.7	3135.5	3074.3	2858.4	2584.5
34751.8	55°	28561.3	18890.5	4872.5	2945.4	3006.6	2880.9	3080.7	3035.6	2726.3	2416.9
37526.4	57.5°	30604.4	20218.2	5036.8	2768.2	2832.6	2716.6	2993.7	2932.5	2578.0	2262.2
40555.6	60°	32728.0	21507.2	5114.2	2597.4	2642.5	2565.1	2861.6	2755.3	2410.5	2104.3
43533.2	62.5°	34716.3	22580.3	4988.5	2426.6	2455.6	2423.3	2687.6	2545.8	2242.9	1927.1
46636.5	65°	36711.1	23218.3	4601.8	2259.0	2265.4	2249.3	2442.7	2320.2	2046.3	1772.4
49353.1	67.5°	38518.9	23576.1	3986.3	2078.5	2062.4	2056.0	2213.9	2075.3	1856.2	1617.7
51418.7	70°	38902.4	22667.3	3045.3	1865.8	1865.8	1849.7	1962.5	1820.7	1646.7	1453.4
49939.6	72.5°	35531.6	19067.7	2162.3	1624.2	1649.9	1617.7	1711.2	1591.9	1434.0	1305.1
43040.1	75°	28651.5	13982.6	1572.6	1376.0	1421.1	1366.4	1453.4	1369.6	1234.2	1231.0
29660.2	77.5°	19686.5	8646.1	1140.8	1134.3	1166.6	1095.7	1195.6	1150.4	1028.0	973.2
12909.5	80°	8401.1	3448.1	831.4	876.5	876.5	812.1	928.1	941.0	834.6	808.9
2491.0	82.5°	1672.5	979.6	583.3	602.6	567.2	547.8	657.4	728.3	1005.4	1118.2
750.9	85°	502.7	360.9	351.3	328.7	290.0	293.3	386.7	731.5	902.3	515.6
248.1	87.5°	138.6	90.2	93.5	74.1	61.2	80.6	132.1	554.3	302.9	128.9
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>
12229.5
11839.6
10805.2
9126.2
7286.1
6106.7
5339.7
5110.9
5020.7
4814.5
4579.2
4453.5
4389.1
4279.5
3944.4
3538.3
3103.3
2926.1
2806.8
2713.4
2661.8
2565.1
2400.8
2255.8
2094.6
1923.9
1753.1
1598.4
1446.9
1266.5
1108.6
912.0
808.9
1121.4
444.7
109.6
0.0

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