

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: P956079

Luminaire Tested: **GALN-SB8D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
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-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75309 lumens
Efficiency: N/A
Efficacy: 128.8 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

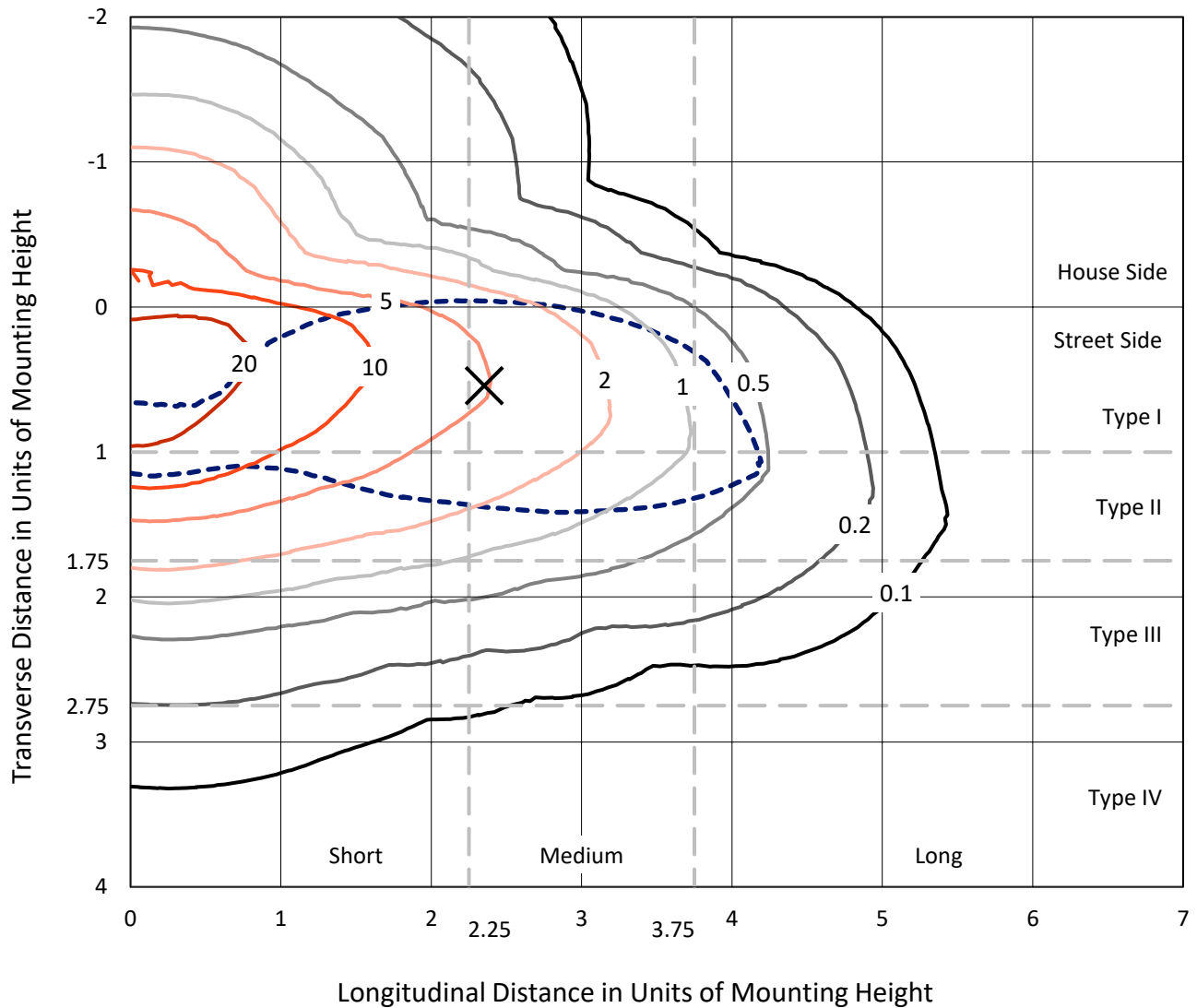
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

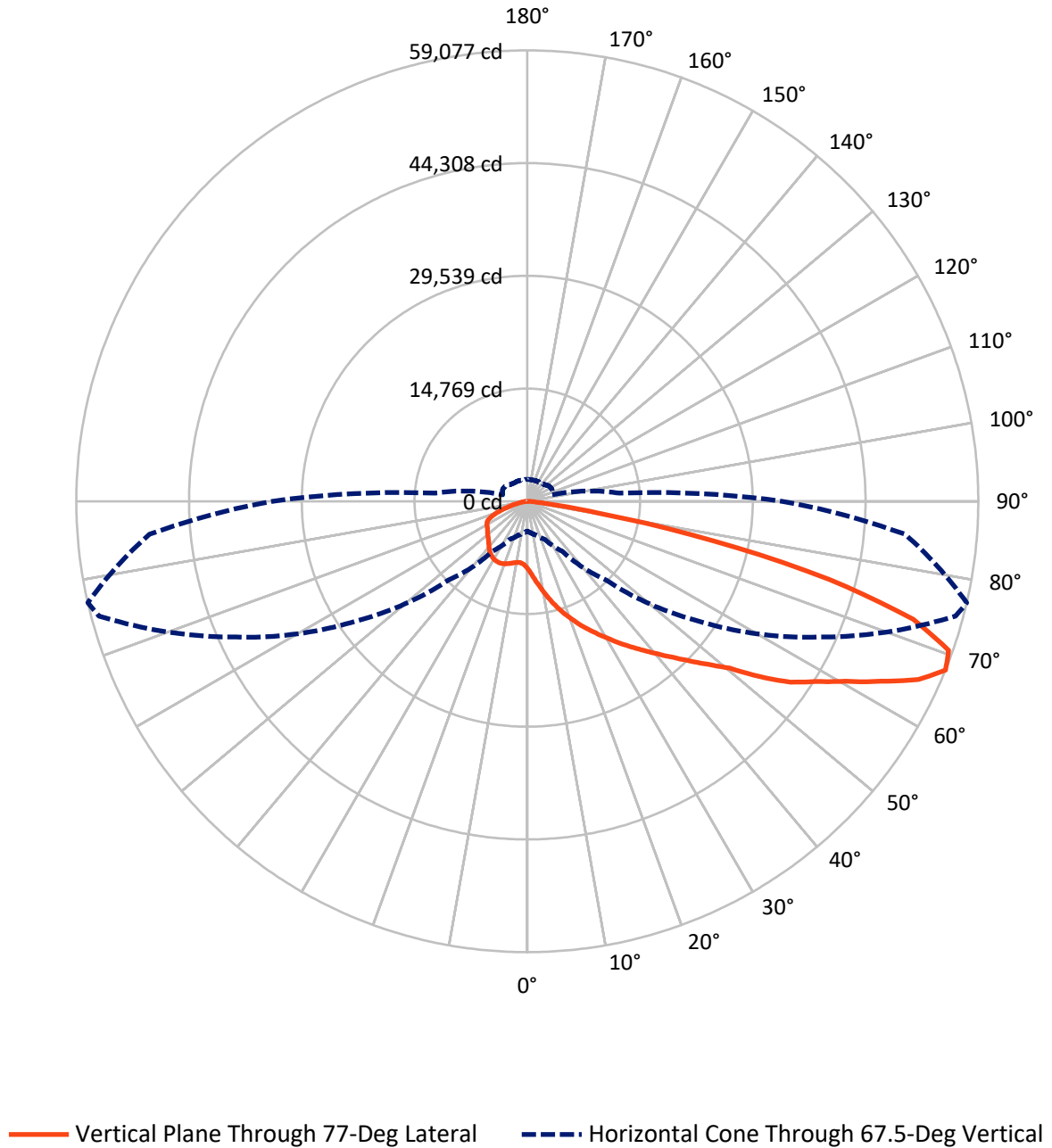
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14245.4	0.0	14245.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	61063.6	0.0	61063.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	75309.0	0.0	75309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.1	1.3
10°-20°	3402.6	4.5
20°-30°	6424.4	8.5
30°-40°	10349.6	13.7
40°-50°	14156.4	18.8
50°-60°	15968.5	21.2
60°-70°	14904.6	19.8
70°-80°	8170.2	10.8
80°-90°	985.5	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°	75309.0	100.0
0°-180°	75309.0	100.0



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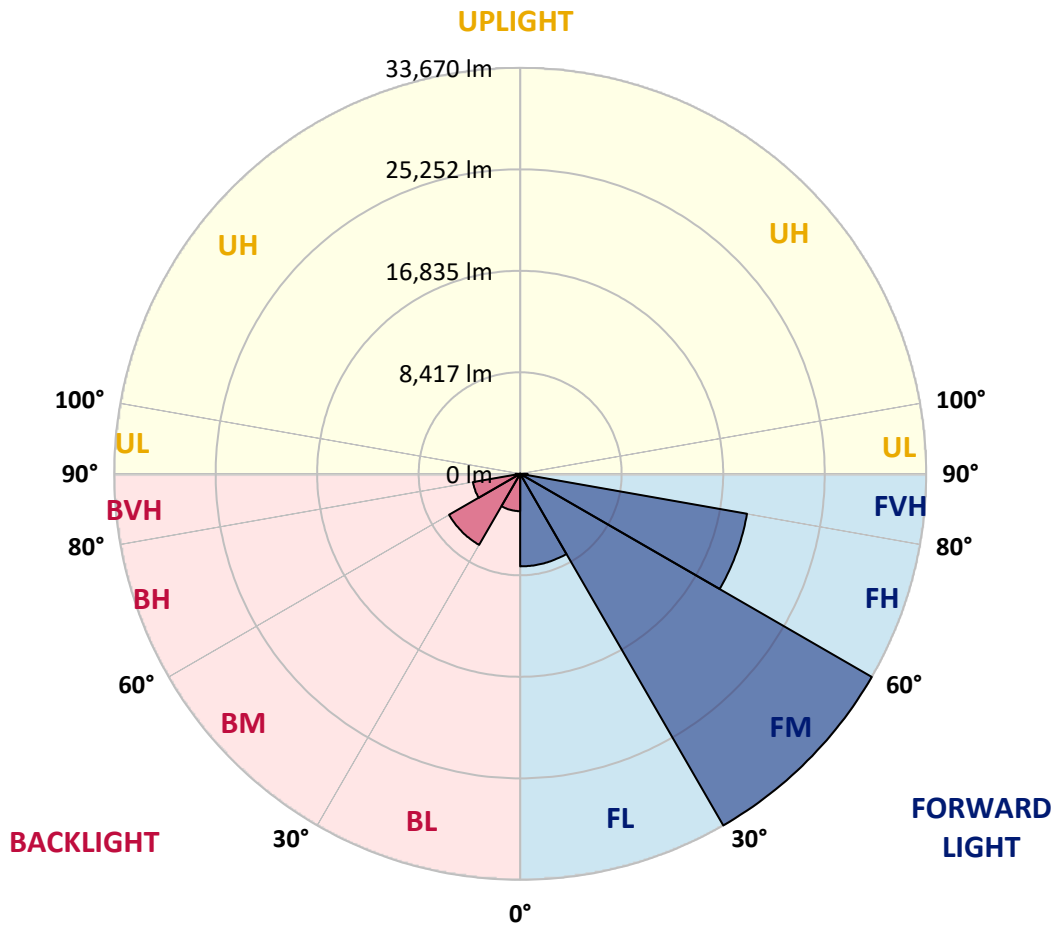
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7676.8	10.2			
FM (30°-60°)	33669.8	44.7			
FH (60°-80°)	19100.6	25.4			G5
FVH (80°-90°)	616.3	0.8			G4/750
BL (0°-30°)	3097.3	4.1	B4/5000		
BM (30°-60°)	6804.7	9.0	B4/8500		
BH (60°-80°)	3974.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	369.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1
2.5°	11063.6	11141.3	11044.1	11044.1	10717.6	10546.5	10220.0	9971.2	9524.2	9446.4
5°	13077.3	13174.4	13038.4	12980.1	12595.2	12241.5	11693.3	11153.0	10356.1	10274.4
7.5°	14636.1	14760.5	14640.0	14577.8	14235.7	13839.2	13197.8	12443.6	11320.1	11160.8
10°	15907.3	15926.7	15887.8	15911.2	15642.9	15316.4	14659.4	13780.9	12377.5	12159.8
12.5°	16626.5	16715.9	16793.6	16933.6	16886.9	16684.8	16093.9	15044.3	13497.1	13217.2
15°	16964.7	17120.2	17295.1	17617.7	17878.2	17928.7	17477.8	16401.0	14636.1	14297.9
17.5°	17085.2	17232.9	17508.9	17975.4	18535.2	18912.3	18710.1	17718.8	15763.5	15374.7
20°	17695.5	17738.3	17905.4	18348.6	18955.0	19580.9	19732.5	18986.1	16879.1	16439.9
22.5°	19001.7	18916.1	18962.8	19164.9	19600.3	20206.8	20552.7	20105.7	18025.9	17520.6
25°	21159.2	20910.4	20661.6	20428.3	20649.9	20992.0	21384.6	21225.3	19227.1	18585.7
27.5°	23884.3	23581.0	23032.9	22267.1	21998.9	22119.4	22294.3	22263.2	20338.9	19689.7
30°	26566.6	26212.8	25559.7	24451.8	23744.3	23425.5	23293.4	23204.0	21547.9	20856.0
32.5°	28708.5	28428.6	27787.2	26547.1	25520.9	24976.6	24537.3	24218.6	22811.3	22119.4
35°	30582.3	30321.8	29587.1	28234.3	27118.6	26539.4	25964.0	25283.7	24125.3	23425.5
37.5°	32292.7	32032.3	31025.4	29618.2	28494.7	28094.3	27581.2	26426.6	25443.1	24782.2
40°	33373.4	33315.1	32374.4	30780.5	29614.3	29416.0	29245.0	27752.2	26904.8	26290.6
42.5°	33649.4	33777.7	33031.3	31721.3	30609.5	30450.1	30850.5	29252.8	28545.3	27958.3
45°	32984.7	33354.0	32864.2	31974.0	31317.0	31231.5	32273.3	30893.3	30360.7	29824.2
47.5°	31301.4	31927.3	31725.2	31600.8	31507.5	31876.8	33525.0	32634.8	32417.1	31950.6
50°	27903.8	29089.5	29443.3	30228.5	31130.4	32378.2	34664.0	34535.8	34819.5	34349.2
52.5°	22030.0	23662.7	25715.2	27682.3	29971.9	32211.1	35915.8	37264.7	38462.0	38205.5
55°	18185.3	18920.0	20498.3	24105.8	27725.0	31507.5	36479.5	39468.9	42077.3	41848.0
57.5°	15230.9	15887.8	16859.7	19872.4	24327.4	29909.7	36829.3	40813.9	44553.6	44530.3
60°	12062.6	12758.5	13753.7	15887.8	20358.4	27149.7	36751.6	42345.6	47714.1	47908.5
62.5°	8486.2	9252.0	10356.1	12346.4	16303.8	23573.3	35165.5	43453.5	51434.3	51963.0
65°	5578.4	6083.8	6915.7	8633.9	12148.2	18974.5	32137.2	43597.3	55415.0	56309.1
67.5°	3910.7	4105.1	4594.9	5527.9	8008.1	14550.6	27313.0	42108.4	58070.1	59077.0
70°	3051.6	3148.8	3397.6	3770.8	5030.3	9784.6	20929.8	38236.6	57502.6	58552.2
72.5°	2635.7	2729.0	2822.3	2868.9	3374.3	6041.0	14177.4	31970.1	52157.4	52868.8
75°	2390.8	2414.1	2491.8	2476.3	2573.5	3918.5	8183.0	23293.4	41152.1	40907.2
77.5°	2009.8	2040.9	2169.2	2149.7	2285.8	2678.4	4248.9	15032.6	26679.3	25015.5
80°	1702.7	1718.2	1858.2	1834.9	1986.5	1939.8	2169.2	7662.1	11316.3	9586.4
82.5°	590.9	730.8	1418.9	1461.7	1516.1	1174.0	1251.7	3125.5	3455.9	2647.3
85°	287.7	307.1	723.1	1026.3	1022.4	590.9	610.3	1115.7	1088.5	855.2
87.5°	46.6	58.3	85.5	400.4	318.8	155.5	209.9	217.7	225.5	194.4
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°
8836.1	0°	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1	8836.1
9151.0	2.5°	8933.3	8738.9	8330.7	7953.6	7658.2	7374.4	7215.0	7079.0	7001.2	6985.7
9578.6	5°	9174.3	8773.9	8031.4	7405.5	6997.3	6694.1	6534.7	6433.7	6383.1	6352.0
10153.9	7.5°	9520.3	8933.3	7875.9	7164.5	6736.9	6519.2	6437.6	6422.0	6418.1	6422.0
10849.8	10°	9998.4	9193.7	7860.3	7106.2	6748.5	6628.0	6624.1	6628.0	6643.6	6647.5
11607.8	12.5°	10515.4	9462.0	7922.5	7156.7	6896.3	6830.2	6818.5	6814.6	6826.3	6834.1
12373.6	15°	11079.1	9815.7	8027.5	7265.6	7059.5	6989.6	6977.9	6954.6	6950.7	6946.8
13178.3	17.5°	11658.3	10165.6	8144.1	7382.2	7164.5	7067.3	7024.6	6970.1	6927.4	6915.7
14010.2	20°	12245.3	10511.6	8225.8	7440.5	7172.3	7036.2	6950.7	6857.4	6783.5	6740.8
14849.9	22.5°	12871.2	10873.1	8276.3	7425.0	7102.3	6915.7	6760.2	6651.4	6538.6	6464.8
15697.4	25°	13481.5	11188.0	8272.4	7343.3	6966.2	6729.1	6530.9	6390.9	6235.4	6157.7
16572.0	27.5°	14068.5	11471.8	8175.2	7199.5	6771.9	6507.5	6270.4	6103.2	5951.6	5877.8
17454.5	30°	14675.0	11708.9	8023.6	6989.6	6542.5	6251.0	5990.5	5846.7	5710.6	5640.6
18387.5	32.5°	15277.5	11926.6	7809.8	6729.1	6278.2	5998.3	5741.7	5609.5	5527.9	5527.9
19390.4	35°	15915.1	12078.2	7526.0	6425.9	5998.3	5730.0	5527.9	5450.2	5442.4	5395.7
20451.7	37.5°	16587.6	12175.4	7180.0	6114.9	5722.3	5469.6	5407.4	5314.1	5236.3	5135.3
21617.9	40°	17295.1	12272.6	6764.1	5792.2	5430.7	5290.8	5263.6	5139.2	4917.6	4668.8
22939.6	42.5°	18154.2	12338.6	6332.6	5469.6	5123.6	5077.0	5115.8	4902.0	4548.3	4361.7
24533.5	45°	19149.4	12447.5	5936.1	5150.8	4808.7	4808.7	4972.0	4692.1	4400.5	4283.9
26352.8	47.5°	20440.0	12700.2	5566.8	4801.0	4517.2	4594.9	4653.2	4439.4	4276.2	4132.3
28568.6	50°	22306.0	13306.6	5185.8	4447.2	4295.6	4451.1	4369.5	4245.1	4054.6	3937.9
32090.6	52.5°	24622.9	13664.2	4847.6	4128.4	4105.1	4260.6	4144.0	4027.4	3883.5	3728.0
34761.2	55°	26201.2	13730.3	4563.8	3895.2	3976.8	3961.3	3918.5	3813.6	3735.8	3529.8
37396.9	57.5°	27966.0	13862.5	4330.6	3755.2	3895.2	3724.1	3708.6	3619.2	3518.1	3378.2
40611.8	60°	30076.9	14068.5	4128.4	3700.8	3825.2	3568.6	3490.9	3455.9	3354.8	3284.9
44479.8	62.5°	32378.2	14255.1	3922.4	3708.6	3743.6	3417.0	3300.4	3288.7	3226.6	3203.2
48110.6	65°	33948.8	13745.9	3665.8	3700.8	3615.3	3261.5	3113.8	3109.9	3059.4	3051.6
49685.0	67.5°	33400.6	12132.6	3319.8	3592.0	3483.1	3106.0	2942.8	2927.2	2861.1	2865.0
48040.6	70°	30656.1	9831.3	2841.7	3323.7	3319.8	2966.1	2763.9	2713.4	2624.0	2639.6
41770.2	72.5°	25509.2	7285.0	2200.3	2876.7	3059.4	2837.8	2557.9	2476.3	2363.5	2379.1
30834.9	75°	18422.4	4952.6	1601.6	2188.6	2662.9	2686.2	2355.8	2215.8	2079.8	2103.1
17162.9	77.5°	9427.0	2806.7	1177.9	1508.3	2091.4	2441.3	2173.1	1986.5	1955.4	2173.1
4948.7	80°	3074.9	1407.2	816.4	1057.4	1372.3	1998.1	1904.8	1691.0	1683.2	1733.8
1037.9	82.5°	917.4	594.8	524.8	695.8	758.0	1531.6	1644.4	1279.0	1100.1	1158.4
346.0	85°	314.9	287.7	299.3	346.0	361.5	898.0	1150.7	847.5	800.8	882.4
77.7	87.5°	73.9	101.1	85.5	77.7	77.7	217.7	447.1	353.8	489.8	326.5
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>
8836.1
6985.7
6348.1
6433.7
6651.4
6838.0
6942.9
6927.4
6756.3
6468.7
6157.7
5873.9
5636.7
5531.8
5384.1
5119.7
4633.8
4365.6
4303.4
4128.4
3926.3
3696.9
3533.7
3331.5
3304.3
3203.2
3047.7
2865.0
2655.1
2375.2
2110.9
2142.0
1488.9
1197.3
870.8
314.9
0.0

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