

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: P956818

Luminaire Tested: **GALN-SB9B-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48838 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

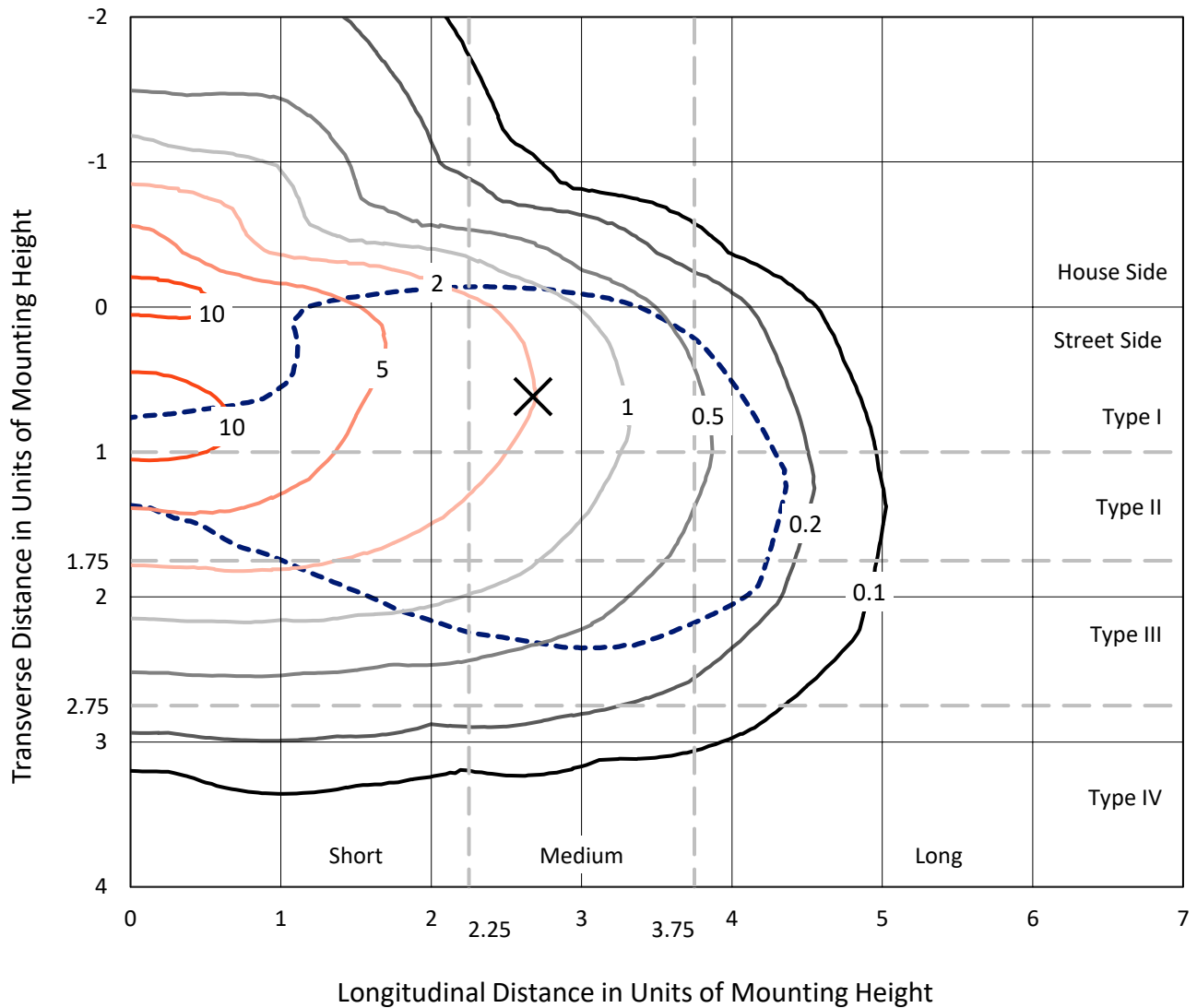
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

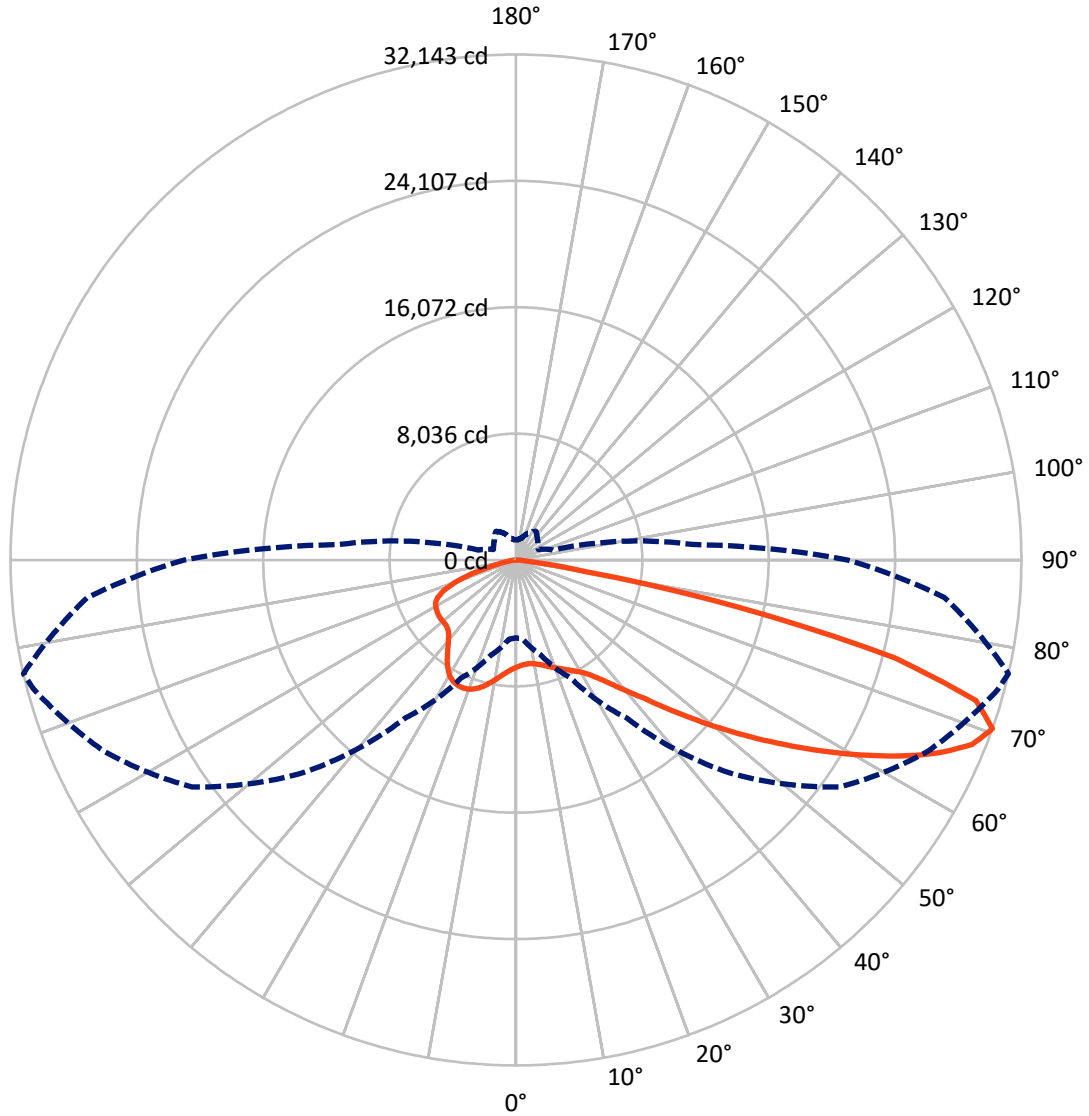
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10694.8	0.0	10694.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	38143.2	0.0	38143.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	48838.0	0.0	48838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.8	1.3
10°-20°	1875.4	3.8
20°-30°	3207.2	6.6
30°-40°	5157.5	10.6
40°-50°	8052.3	16.5
50°-60°	10755.9	22.0
60°-70°	11464.2	23.5
70°-80°	7057.3	14.5
80°-90°	618.4	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°	48838.0	100.0
0°-180°	48838.0	100.0



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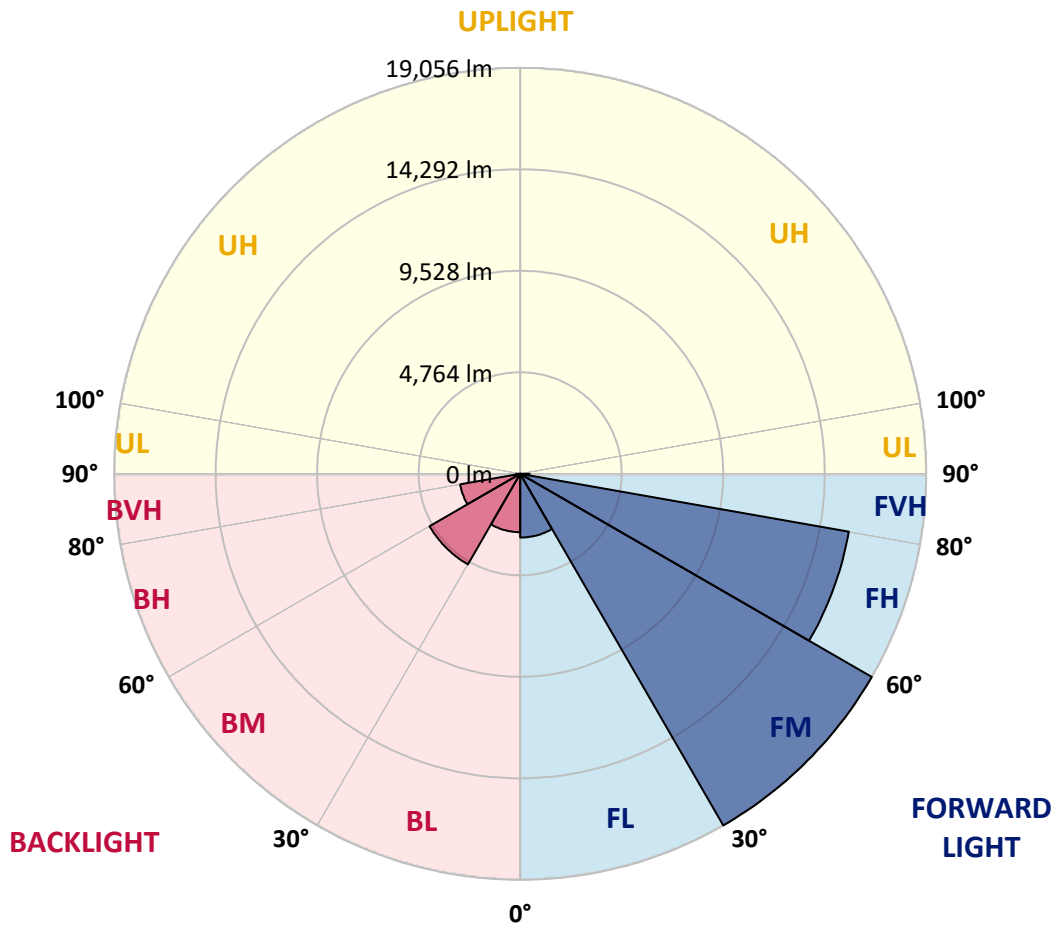
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2992.1	6.1			
FM (30°-60°)	19055.5	39.0			
FH (60°-80°)	15663.2	32.1			G5
FVH (80°-90°)	432.4	0.9			G3/500
BL (0°-30°)	2740.3	5.6	B4/5000		
BM (30°-60°)	4910.2	10.1	B3/5000		
BH (60°-80°)	2858.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	186.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3
2.5°	6280.6	6278.1	6310.6	6320.6	6380.6	6423.2	6503.2	6588.2	6698.3	6710.8
5°	5917.9	5917.9	5955.4	5995.4	6073.0	6158.0	6280.6	6428.2	6618.3	6648.3
7.5°	5610.3	5630.3	5662.8	5740.3	5830.4	5952.9	6140.5	6350.6	6600.7	6648.3
10°	5362.6	5385.1	5425.2	5487.7	5622.8	5792.8	6038.0	6308.1	6643.3	6718.3
12.5°	5285.1	5307.6	5330.1	5377.6	5502.7	5702.8	5995.4	6328.1	6745.8	6820.9
15°	5465.2	5492.7	5475.2	5462.7	5527.7	5710.3	6015.5	6400.6	6873.4	6980.9
17.5°	5880.4	5890.4	5850.4	5732.8	5722.8	5820.4	6110.5	6500.7	7033.5	7151.0
20°	6550.7	6533.2	6450.7	6218.1	6085.5	6065.5	6273.1	6650.8	7198.5	7323.6
22.5°	7461.2	7441.2	7276.1	6908.4	6613.2	6418.2	6508.2	6845.9	7383.6	7523.7
25°	8596.7	8569.2	8326.6	7826.3	7368.6	6885.9	6828.4	7103.5	7611.2	7741.3
27.5°	9922.4	9899.9	9637.2	8976.9	8316.6	7526.2	7226.0	7406.1	7848.9	7996.4
30°	11348.1	11413.1	10947.9	10237.5	9402.1	8361.6	7761.3	7778.8	8156.5	8289.1
32.5°	13023.9	13136.5	12576.2	11675.7	10535.2	9269.6	8436.6	8299.1	8604.2	8714.3
35°	14684.7	14812.3	14347.0	13351.6	12038.4	10340.1	9142.0	8896.9	9199.5	9319.6
37.5°	16120.4	16290.5	16050.4	15185.0	13646.7	11630.7	10062.4	9599.7	9932.4	10082.5
40°	17253.5	17513.6	17496.1	16955.8	15542.6	13196.5	11230.5	10467.6	10842.8	11005.4
42.5°	18173.9	18399.0	18594.1	18566.6	17521.1	14974.9	12603.7	11595.7	11880.8	12068.4
45°	18809.2	19049.4	19469.6	19922.3	19424.5	16878.3	14177.0	12933.9	13194.0	13476.6
47.5°	19377.0	19649.7	20194.9	20912.8	21040.3	18789.2	15900.3	14492.1	14729.7	15022.4
50°	19427.0	19662.2	20507.6	21525.6	22188.4	20625.1	17751.2	16240.5	16463.1	16775.7
52.5°	18218.9	18589.1	20064.9	21508.1	22716.2	22160.9	19589.6	18058.9	18309.0	18684.2
55°	14141.9	14684.7	18766.7	20837.7	22528.6	23153.9	21338.0	19992.3	20312.5	20705.2
57.5°	12181.0	12418.6	14897.3	19617.1	21673.1	23411.5	22813.7	21945.8	22461.0	22891.2
60°	10947.9	11145.5	12611.2	17718.7	20547.6	23003.8	23954.3	23766.7	24657.1	25169.9
62.5°	9627.2	9814.8	11148.0	14794.8	19106.9	22326.0	24674.6	25447.5	26908.2	27468.5
65°	8316.6	8476.7	9754.8	12431.1	17276.0	21648.1	25047.3	26900.7	28991.7	29572.0
67.5°	6855.9	6988.4	8196.5	10487.7	15049.9	20720.2	25232.4	28043.8	30805.1	31302.9
70°	4947.4	5050.0	6298.1	8294.1	12256.0	19124.4	25157.4	28854.2	31745.6	32143.3
72.5°	2338.6	2431.2	3896.9	5385.1	8656.8	16017.9	23639.1	28211.4	30790.1	30592.5
75°	1248.1	1328.2	2238.6	2954.0	4572.2	10980.4	19344.5	24301.9	25855.2	24894.7
77.5°	845.4	907.9	1385.7	1773.4	2088.5	5212.6	12433.6	16825.8	16188.0	14602.2
80°	670.3	735.4	1135.6	1200.6	1010.5	1883.4	5137.5	7788.8	5595.2	4474.7
82.5°	515.3	587.8	955.5	870.4	550.3	772.9	1495.7	2463.7	1433.2	1090.5
85°	315.2	392.7	750.4	555.3	310.2	352.7	507.7	685.3	437.7	365.2
87.5°	160.1	225.1	380.2	202.6	140.1	82.5	135.1	135.1	115.1	100.0
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°
6813.3	0°	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3	6813.3
6778.3	2.5°	6838.4	6888.4	6973.4	7053.5	7116.0	7176.0	7236.1	7268.6	7278.6	7318.6
6815.8	5°	6918.4	7010.9	7176.0	7331.1	7428.6	7488.7	7531.2	7556.2	7561.2	7573.7
6918.4	7.5°	7066.0	7213.5	7443.7	7598.7	7671.3	7666.3	7648.8	7586.2	7561.2	7538.7
7068.5	10°	7273.6	7468.7	7751.3	7858.9	7813.8	7693.8	7538.7	7356.1	7271.1	7188.5
7273.6	12.5°	7531.2	7778.8	8056.5	8051.5	7828.8	7521.2	7161.0	6880.9	6703.3	6575.7
7526.2	15°	7843.9	8129.0	8341.6	8171.5	7683.8	7131.0	6603.2	6238.1	6078.0	5937.9
7781.3	17.5°	8166.5	8471.7	8569.2	8134.0	7318.6	6553.2	5955.4	5667.8	5510.2	5435.2
8056.5	20°	8481.7	8784.3	8704.3	7918.9	6763.3	5897.9	5365.1	5207.6	5175.0	5192.6
8324.1	22.5°	8814.3	9084.5	8731.8	7503.7	6055.5	5227.6	4934.9	4939.9	5012.5	5065.0
8604.2	25°	9154.5	9337.1	8659.3	6903.4	5295.1	4734.8	4662.3	4742.3	4884.9	4987.4
8919.4	27.5°	9482.2	9562.2	8501.7	6160.5	4642.3	4382.2	4394.7	4559.7	4774.8	4917.4
9302.1	30°	9852.3	9762.3	8199.0	5325.1	4189.6	4079.5	4184.6	4377.1	4592.3	4719.8
9784.8	32.5°	10270.0	9934.9	7718.8	4552.2	3869.4	3836.9	4009.5	4134.5	4229.6	4267.1
10425.1	35°	10790.3	10177.5	7103.5	4009.5	3581.8	3659.3	3824.4	3761.8	3724.3	3704.3
11285.5	37.5°	11465.6	10505.2	6383.1	3656.8	3349.1	3531.7	3599.3	3404.2	3256.6	3184.1
12328.6	40°	12278.5	10985.4	5690.3	3384.2	3201.6	3421.7	3304.1	3069.0	2881.4	2778.9
13501.6	42.5°	13181.5	11488.1	5107.5	3179.1	3119.0	3331.6	3086.5	2806.4	2503.7	2471.2
14899.8	45°	14129.4	12005.9	4709.8	3021.5	3079.0	3254.1	2961.5	2508.7	2293.6	2426.2
16303.0	47.5°	15077.4	12481.1	4469.7	2903.9	3059.0	3166.6	2851.4	2343.7	2191.1	2383.7
17806.2	50°	16132.9	12906.3	4362.1	2818.9	3036.5	3131.5	2686.3	2301.1	2083.5	2211.1
19362.0	52.5°	17180.9	13236.5	4282.1	2733.8	3004.0	3104.0	2606.3	2251.1	1953.5	1961.0
20927.8	55°	18226.5	13451.6	4194.6	2621.3	2931.4	3044.0	2598.8	2196.1	1855.9	1820.9
22583.6	57.5°	19342.0	13574.2	4087.0	2496.2	2806.4	2891.4	2591.3	2153.6	1825.9	1768.4
24276.9	60°	20477.6	13754.3	3946.9	2343.7	2638.8	2708.8	2573.8	2138.6	1808.4	1710.8
25872.7	62.5°	21495.6	13816.8	3779.4	2198.6	2423.7	2528.7	2536.2	2126.0	1760.9	1593.3
27198.4	65°	22163.4	13546.7	3486.7	2033.5	2191.1	2343.7	2463.7	2083.5	1675.8	1508.2
27853.7	67.5°	22135.9	12776.3	3029.0	1820.9	1966.0	2138.6	2358.7	2011.0	1573.3	1403.2
27358.4	70°	21105.4	11255.5	2448.7	1573.3	1718.3	1918.4	2223.6	1903.4	1450.7	1288.1
24326.9	72.5°	18101.4	8809.3	1778.4	1283.1	1430.7	1690.8	2048.5	1773.4	1325.7	1185.6
17978.8	75°	12931.4	5575.2	1205.6	985.5	1113.0	1433.2	1830.9	1620.8	1210.6	1190.6
9004.4	77.5°	6605.7	2663.8	797.9	720.4	775.4	1130.6	1538.3	1448.2	1228.1	983.0
2561.3	80°	2148.6	983.0	502.7	490.2	515.3	752.9	1190.6	1188.1	930.5	667.8
620.3	82.5°	685.3	422.7	327.7	315.2	302.6	472.7	830.4	940.5	627.8	422.7
222.6	85°	272.6	252.6	192.6	177.6	127.6	222.6	435.2	625.3	467.7	305.1
57.5	87.5°	100.0	100.0	52.5	37.5	27.5	75.0	117.6	187.6	267.6	157.6
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>
6813.3
7341.1
7593.7
7543.7
7163.5
6545.7
5922.9
5457.7
5185.0
5077.5
5015.0
4952.4
4749.8
4287.1
3724.3
3201.6
2786.4
2503.7
2496.2
2473.7
2306.1
2013.5
1845.9
1775.9
1718.3
1593.3
1508.2
1410.7
1303.1
1178.1
1123.1
875.4
590.3
420.2
312.7
155.1
0.0

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