

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: P955800

Luminaire Tested: **GALN-SB8C-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36026 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

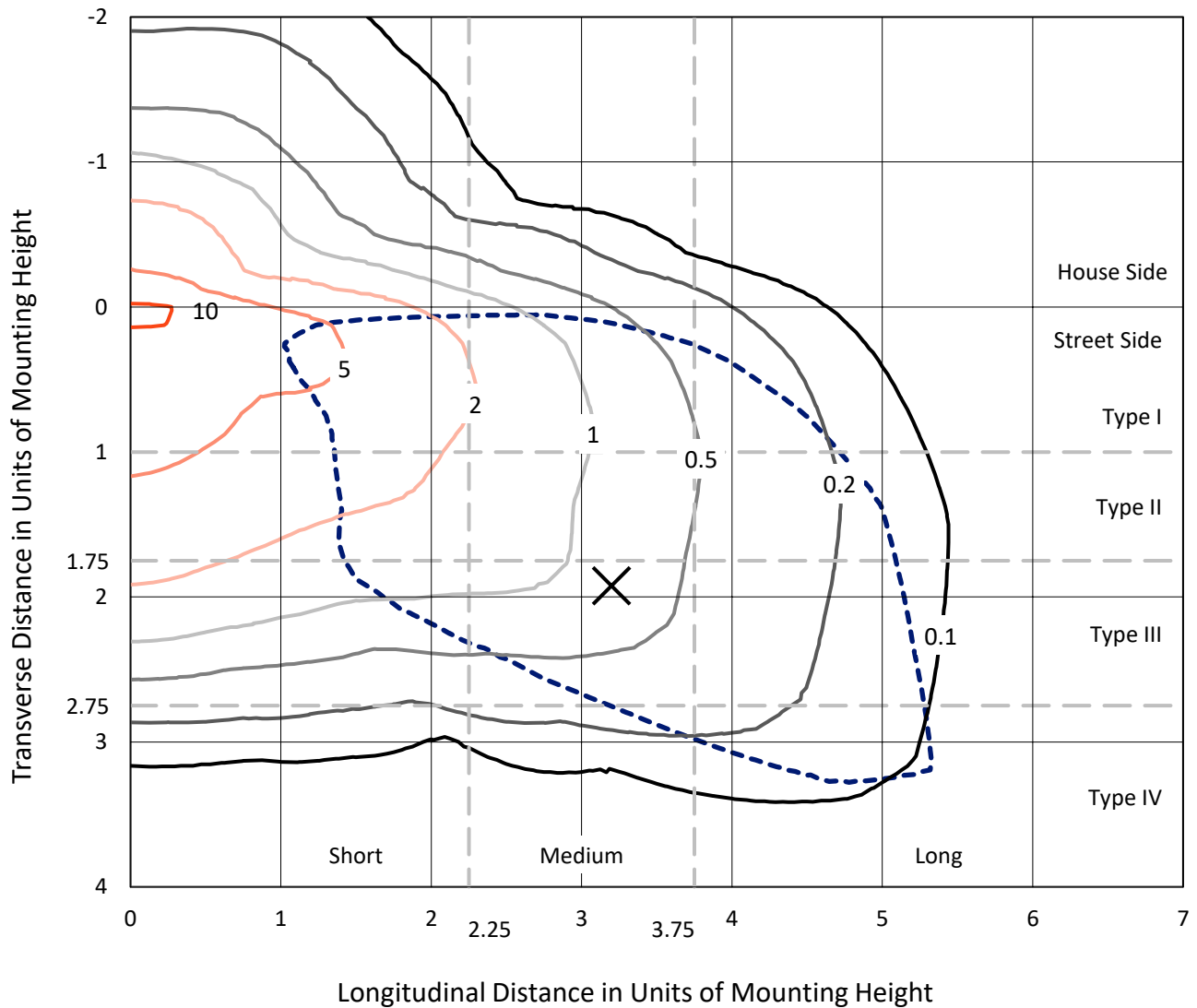
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

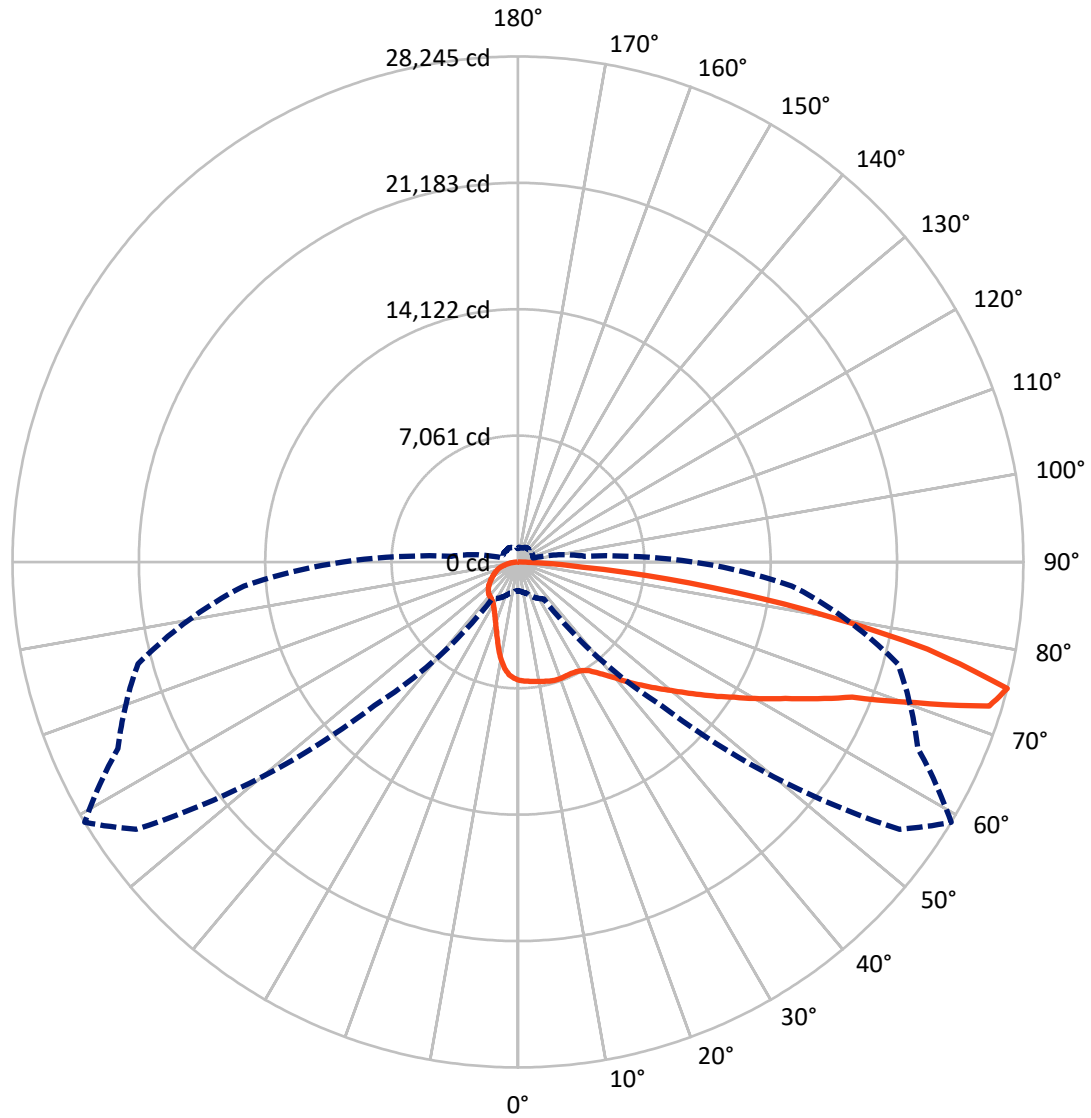
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6756.9	0.0	6756.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29269.1	0.0	29269.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	36026.0	0.0	36026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.9	1.6
10°-20°	1515.5	4.2
20°-30°	2302.0	6.4
30°-40°	3421.8	9.5
40°-50°	5088.9	14.1
50°-60°	6907.5	19.2
60°-70°	8432.9	23.4
70°-80°	6618.1	18.4
80°-90°	1146.4	3.2
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°	36026.0	100.0
0°-180°	36026.0	100.0



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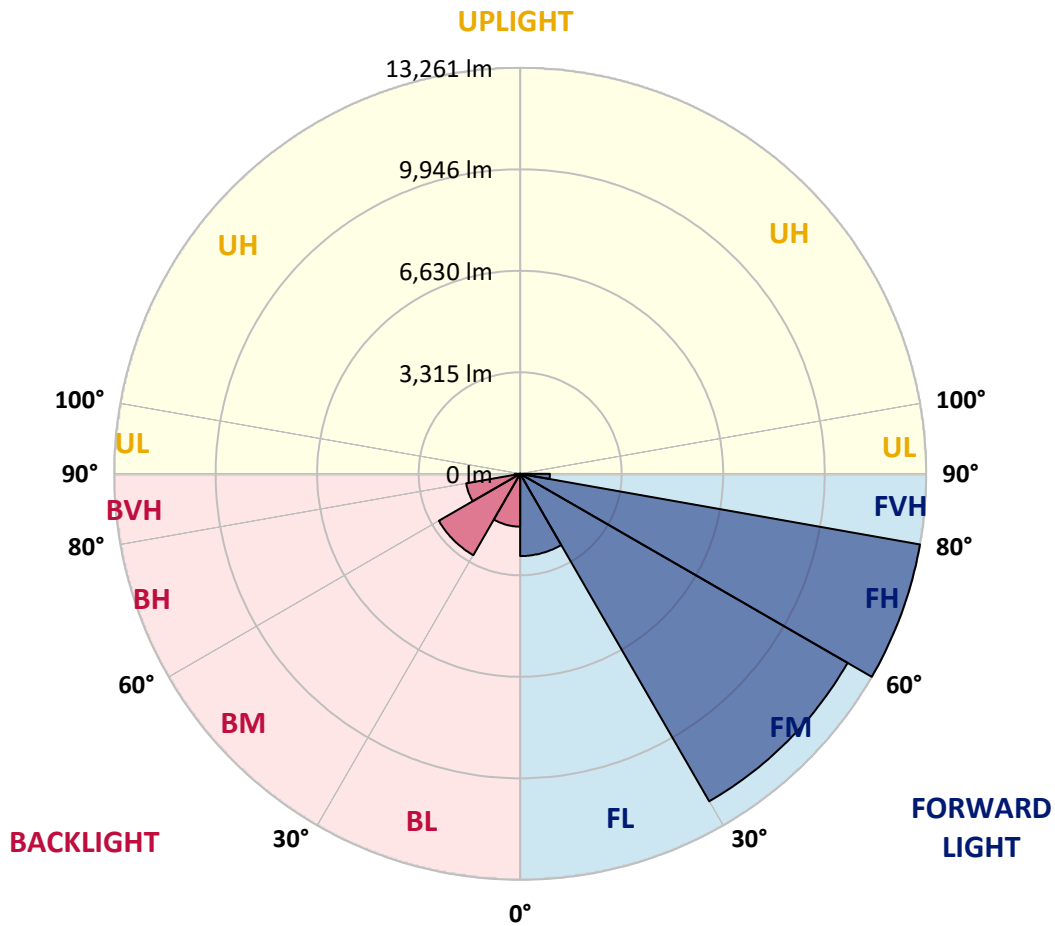
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2686.1	7.5			
FM (30°-60°)	12351.2	34.3			
FH (60°-80°)	13260.8	36.8			G5
FVH (80°-90°)	970.9	2.7			G5
BL (0°-30°)	1724.3	4.8	B3/2500		
BM (30°-60°)	3067.0	8.5	B3/5000		
BH (60°-80°)	1790.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	175.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5
2.5°	6668.7	6645.4	6668.7	6659.0	6655.1	6647.4	6649.3	6662.9	6655.1	6664.8
5°	6624.1	6610.6	6633.8	6628.0	6653.2	6657.1	6682.3	6697.8	6707.5	6709.4
7.5°	6550.5	6536.9	6569.9	6597.0	6651.3	6666.8	6719.1	6744.3	6757.8	6781.1
10°	6281.1	6275.3	6356.7	6459.4	6587.3	6666.8	6746.2	6788.9	6810.2	6872.2
12.5°	5804.3	5812.1	5918.7	6116.4	6372.2	6628.0	6777.2	6839.2	6872.2	6949.7
15°	5348.9	5347.0	5463.3	5674.5	6033.0	6457.5	6792.7	6899.3	6955.5	7069.9
17.5°	5085.3	5077.6	5159.0	5319.8	5653.2	6195.8	6754.0	6932.3	7052.4	7195.8
20°	5036.9	5021.4	5064.0	5143.5	5379.9	5909.0	6653.2	6932.3	7129.9	7316.0
22.5°	5213.2	5188.1	5170.6	5160.9	5265.6	5672.6	6538.8	6909.0	7244.3	7488.5
25°	5567.9	5529.1	5440.0	5352.8	5321.8	5566.0	6438.1	6903.2	7414.8	7721.0
27.5°	6141.6	6093.1	5912.9	5703.6	5515.6	5620.2	6393.5	6938.1	7602.8	7967.2
30°	6852.8	6800.5	6573.7	6252.0	5914.8	5821.8	6449.7	7040.8	7843.1	8294.7
32.5°	7490.4	7432.3	7238.5	6910.9	6455.5	6170.6	6628.0	7236.5	8221.0	8750.1
35°	8056.3	7988.5	7814.1	7511.7	7118.3	6660.9	6949.7	7583.4	8757.9	9490.4
37.5°	8610.6	8531.1	8341.2	8021.4	7746.2	7314.1	7393.5	8029.2	9471.1	10389.7
40°	9230.7	9116.4	8885.8	8569.9	8302.4	8079.6	7976.9	8575.7	10195.9	11393.6
42.5°	9831.5	9723.0	9447.8	9178.4	8843.1	8779.2	8653.2	9215.2	10988.5	12496.3
45°	10478.8	10349.0	10015.6	9674.5	9463.3	9244.3	9308.3	9854.8	11765.7	13620.3
47.5°	11085.4	10940.1	10546.7	10166.8	10050.5	9635.8	9909.0	10558.3	12573.8	14759.9
50°	11412.9	11269.5	10942.0	10599.0	10507.9	10118.4	10560.2	11331.5	13420.7	15895.6
52.5°	11686.2	11531.2	11102.9	10912.9	10885.8	10643.6	11362.6	12215.3	14267.6	16899.5
55°	11976.9	11804.4	11257.9	11087.4	11211.4	11232.7	12314.1	13217.2	15163.0	17878.1
57.5°	12312.2	12093.2	11407.1	11234.6	11529.2	11922.6	13407.2	14256.0	16042.9	18785.1
60°	12628.1	12407.1	11694.0	11469.1	11872.3	12723.0	14661.0	15513.8	17039.0	19593.3
62.5°	12690.1	12507.9	11922.6	11920.7	12337.4	13657.2	16145.6	16783.2	17909.2	20391.7
65°	11616.4	11502.1	11155.2	11903.3	13004.1	15002.1	17798.7	18407.2	19015.8	21089.4
67.5°	8841.2	8856.7	8831.5	10275.3	12465.3	16934.3	20192.1	20145.6	20382.1	21872.4
70°	4042.7	4133.8	4726.8	7093.1	9986.6	17157.2	24149.5	23546.8	22097.2	22886.0
72.5°	2184.1	2253.9	2496.2	3436.1	6004.0	15254.1	27107.0	27535.3	24378.2	23568.1
75°	1602.7	1641.5	1810.1	2184.1	2521.4	11337.4	26046.9	28244.6	24663.1	21977.0
77.5°	1199.6	1217.1	1354.7	1730.6	1290.7	5976.8	20812.3	23391.8	21112.7	18056.4
80°	870.2	889.5	992.3	1298.5	905.1	2186.1	14290.9	16418.8	14459.5	11509.8
82.5°	600.8	608.5	653.1	883.7	631.8	848.8	8108.6	9628.0	8071.8	4038.8
85°	362.4	372.1	391.5	515.5	358.5	403.1	3500.0	3620.2	2412.8	965.1
87.5°	149.2	158.9	174.4	217.1	141.5	112.4	577.5	724.8	451.6	282.9
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°
6612.5	0°	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5
6631.9	2.5°	6622.2	6608.6	6571.8	6521.4	6474.9	6416.8	6391.6	6370.2	6350.9	6314.0
6684.2	5°	6662.9	6626.1	6527.2	6399.3	6254.0	6095.0	5940.0	5833.4	5742.3	5674.5
6744.3	7.5°	6724.9	6655.1	6474.9	6213.3	5879.9	5538.8	5230.7	5011.7	4847.0	4786.9
6829.5	10°	6788.9	6705.5	6391.6	5930.3	5354.7	4829.5	4420.6	4195.8	4064.0	4021.4
6930.3	12.5°	6864.4	6742.3	6261.7	5536.9	4767.5	4191.9	3835.3	3703.5	3635.7	3612.5
7054.4	15°	6974.9	6773.3	6066.0	5044.6	4207.4	3726.8	3496.2	3405.1	3370.2	3368.3
7182.3	17.5°	7058.2	6779.2	5761.7	4517.5	3777.2	3445.8	3255.9	3221.0	3244.2	3279.1
7308.2	20°	7151.3	6726.8	5362.5	4036.9	3474.9	3199.7	3120.2	3143.5	3199.7	3250.0
7474.9	22.5°	7217.2	6631.9	4879.9	3662.8	3213.2	3058.2	3054.3	3102.8	3133.8	3159.0
7670.6	25°	7275.3	6471.0	4368.3	3348.9	2998.1	2972.9	3015.5	3000.0	2978.7	3000.0
7866.4	27.5°	7317.9	6217.1	3910.9	3073.7	2846.9	2914.8	2889.6	2854.7	2852.8	2864.4
8097.0	30°	7304.4	5878.0	3534.9	2812.1	2740.3	2806.2	2746.2	2740.3	2734.5	2740.3
8443.9	32.5°	7304.4	5492.3	3246.2	2631.8	2672.5	2647.3	2641.5	2627.9	2604.7	2602.7
8914.8	35°	7345.1	5106.7	2998.1	2534.9	2616.3	2556.2	2560.1	2527.2	2478.7	2455.5
9538.9	37.5°	7428.4	4796.6	2752.0	2488.4	2517.5	2515.5	2500.0	2443.8	2358.6	2284.9
10318.0	40°	7629.9	4705.5	2583.4	2467.1	2471.0	2494.2	2453.5	2345.0	2151.2	2031.0
11108.7	42.5°	7945.8	4858.6	2546.5	2414.8	2440.0	2463.2	2383.8	2131.8	1994.2	1922.5
11938.1	45°	8347.0	5126.0	2626.0	2339.2	2366.3	2407.0	2170.6	2050.4	1988.4	1990.3
12759.9	47.5°	8854.8	5407.0	2773.3	2273.3	2259.7	2283.0	2029.1	1955.5	1870.2	1891.5
13548.6	50°	9442.0	5691.9	2912.8	2184.1	2141.5	2065.9	1938.0	1868.2	1759.7	1709.3
14310.3	52.5°	10077.7	5967.1	2969.0	2075.6	2013.6	1926.4	1876.0	1790.7	1658.9	1575.6
15029.3	55°	10680.4	6217.1	2907.0	1945.8	1885.7	1817.9	1810.1	1757.8	1616.3	1500.0
15668.8	57.5°	11250.2	6426.4	2752.0	1814.0	1755.8	1715.1	1767.5	1742.3	1564.0	1414.7
16273.5	60°	11732.7	6569.9	2527.2	1680.3	1639.6	1618.2	1697.7	1689.9	1490.3	1323.7
16816.1	62.5°	12116.4	6626.1	2279.1	1552.3	1542.7	1503.9	1600.8	1600.8	1397.3	1234.5
17292.9	65°	12416.8	6571.8	2027.2	1426.4	1445.8	1387.6	1482.6	1471.0	1298.5	1155.1
17841.3	67.5°	12682.3	6393.5	1748.1	1302.3	1346.9	1273.3	1358.5	1331.4	1189.9	1075.6
18316.1	70°	12800.6	5978.8	1430.3	1178.3	1232.6	1160.9	1234.5	1184.1	1067.8	990.3
17794.8	72.5°	11850.9	4969.1	1126.0	1048.5	1095.0	1036.8	1100.8	1042.6	936.1	901.2
15366.5	75°	9804.4	3728.7	866.3	907.0	941.9	897.3	939.9	897.3	800.4	825.6
11350.9	77.5°	7120.3	2517.5	662.8	757.8	773.3	750.0	786.8	738.4	651.2	645.4
5657.1	80°	3540.7	1474.8	519.4	598.8	593.0	577.5	620.2	596.9	523.3	554.3
1527.2	82.5°	1025.2	631.8	377.9	420.5	408.9	412.8	443.8	455.4	682.2	676.4
474.8	85°	321.7	248.1	226.7	234.5	222.9	228.7	261.6	519.4	480.6	281.0
147.3	87.5°	83.3	85.3	56.2	60.1	62.0	73.6	83.3	315.9	151.2	98.8
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>
6612.5
6296.6
5618.3
4682.2
3955.5
3618.3
3376.0
3292.7
3267.5
3172.5
3013.6
2883.8
2761.7
2627.9
2478.7
2310.1
2046.5
1922.5
2000.0
1945.8
1722.9
1573.7
1500.0
1407.0
1317.8
1228.7
1147.3
1067.8
974.8
872.1
753.9
616.3
548.5
691.9
304.3
104.7
0.0

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