

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: P951136

Luminaire Tested: **GALN-SB5B-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951136
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-SB5B-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27043 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

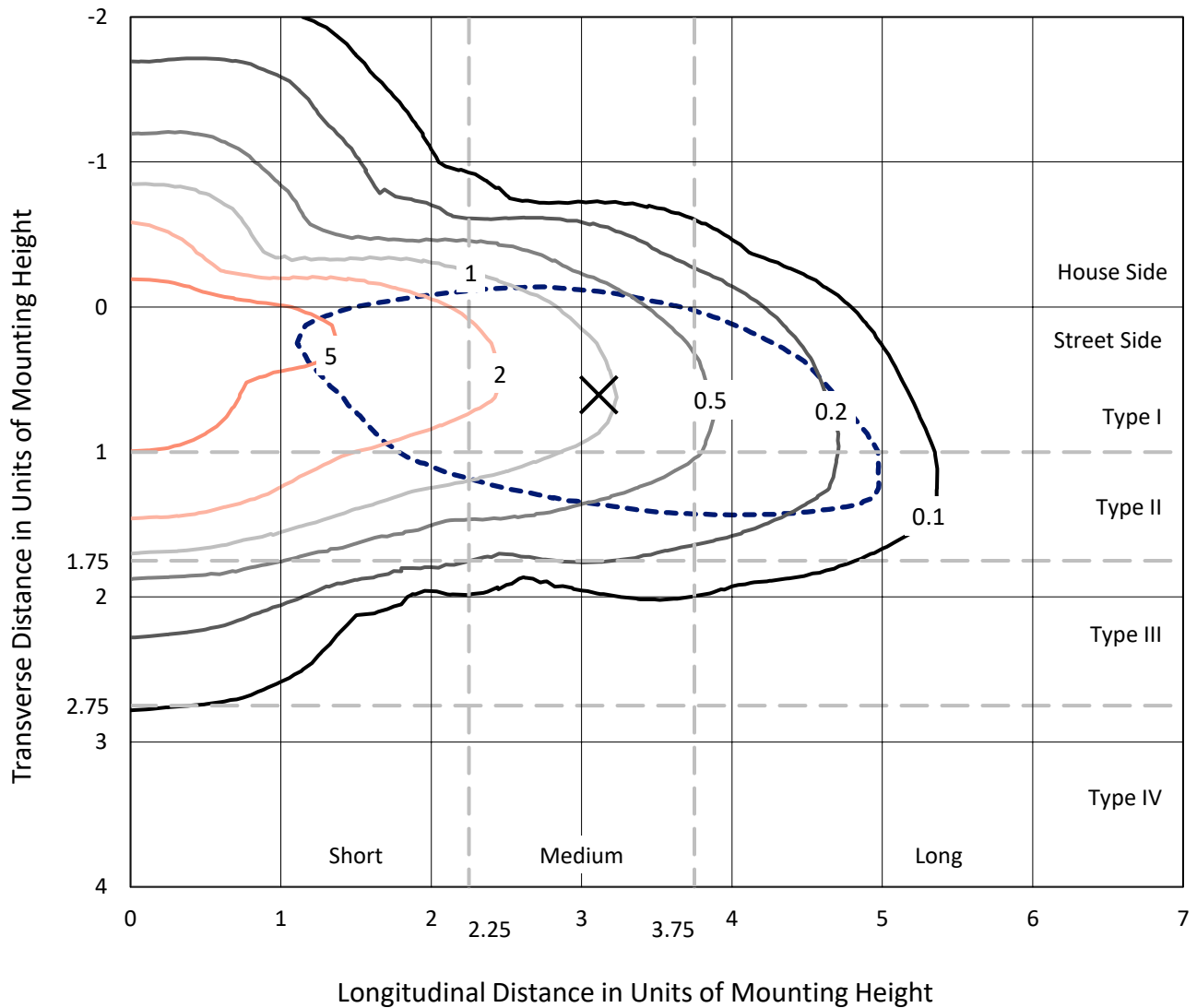
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

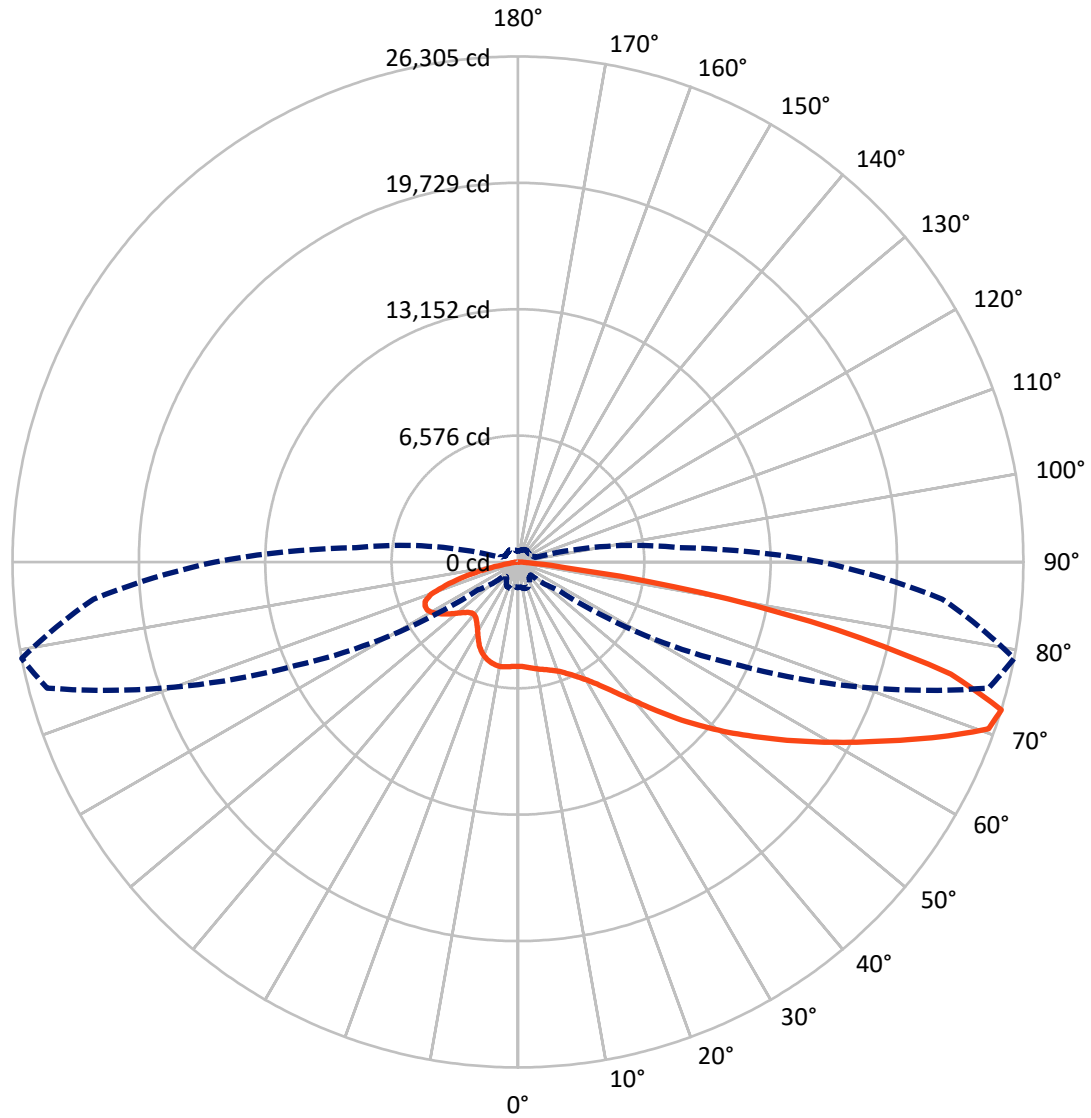
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	5950.9	0.0	5950.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21092.1	0.0	21092.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	27043.0	0.0	27043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.8	1.8
10°-20°	1288.3	4.8
20°-30°	2078.8	7.7
30°-40°	3120.0	11.5
40°-50°	4425.9	16.4
50°-60°	5589.4	20.7
60°-70°	5676.8	21.0
70°-80°	3869.0	14.3
80°-90°	502.0	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°	27043.0	100.0
0°-180°	27043.0	100.0



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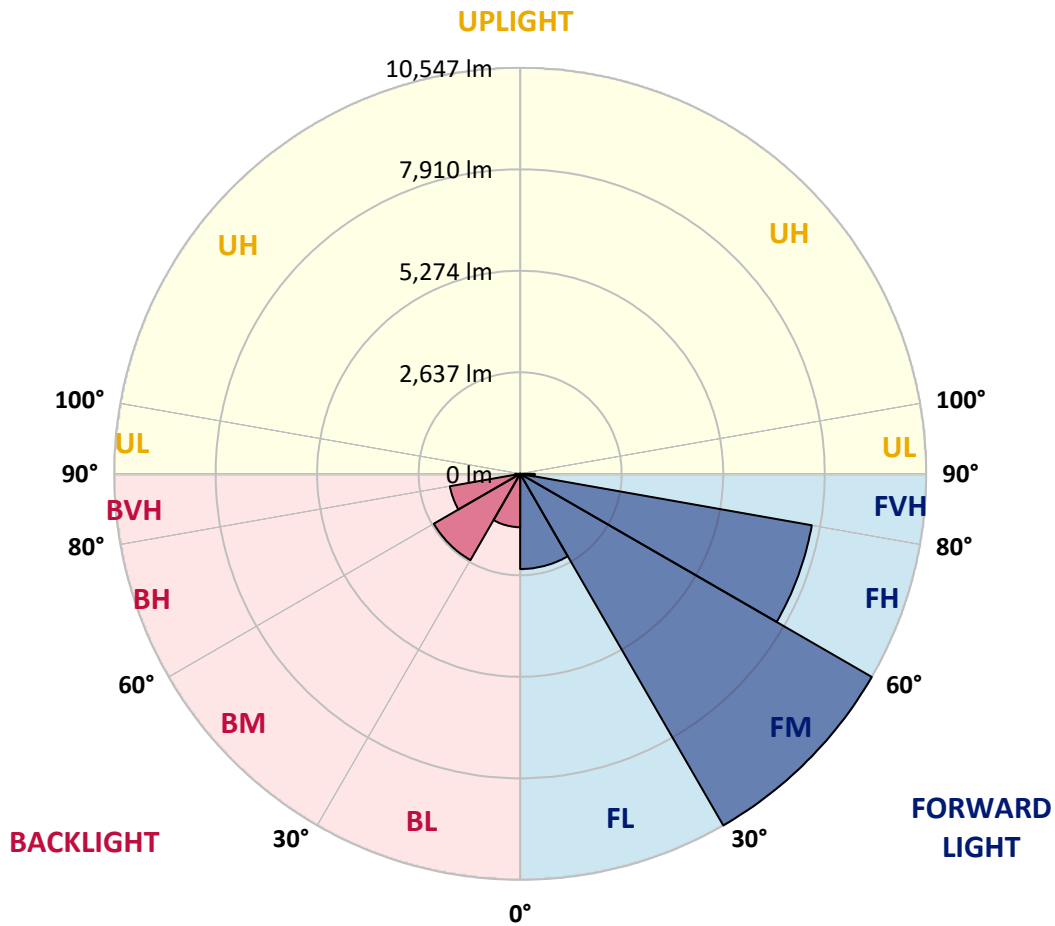
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.8	9.1			
FM (30°-60°)	10547.3	39.0			
FH (60°-80°)	7692.8	28.4			G4/12000
FVH (80°-90°)	378.1	1.4			G3/500
BL (0°-30°)	1386.1	5.1	B3/2500		
BM (30°-60°)	2588.0	9.6	B3/5000		
BH (60°-80°)	1852.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	123.8	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6
2.5°	5431.5	5405.7	5421.5	5415.8	5422.9	5431.5	5434.3	5438.6	5452.9	5451.5
5°	5420.0	5394.3	5415.8	5408.6	5427.2	5447.2	5464.4	5480.1	5503.0	5513.0
7.5°	5395.7	5378.6	5400.0	5421.5	5455.8	5485.8	5510.2	5545.9	5578.8	5584.5
10°	5254.1	5241.2	5291.3	5347.1	5441.5	5523.0	5576.0	5617.4	5653.2	5658.9
12.5°	5106.8	5091.0	5146.8	5222.6	5375.7	5523.0	5634.6	5689.0	5720.4	5739.0
15°	5082.5	5069.6	5101.0	5166.8	5294.2	5484.4	5674.7	5774.8	5802.0	5823.4
17.5°	5199.8	5175.4	5188.3	5211.2	5285.6	5448.7	5706.1	5872.1	5913.6	5936.4
20°	5471.5	5437.2	5417.2	5371.4	5358.5	5454.4	5703.3	5989.4	6043.7	6072.3
22.5°	5833.4	5810.6	5767.6	5651.8	5525.9	5524.5	5757.6	6139.6	6241.1	6268.3
25°	6271.2	6236.8	6182.5	6025.1	5783.4	5663.2	5849.2	6331.3	6501.5	6508.6
27.5°	6774.7	6723.2	6648.8	6441.4	6115.2	5880.7	5989.4	6551.5	6800.4	6797.6
30°	7305.4	7253.9	7175.2	6923.5	6512.9	6173.9	6183.9	6789.0	7155.2	7139.5
32.5°	7693.1	7654.4	7638.7	7444.2	6970.7	6520.1	6407.1	7052.2	7592.9	7578.6
35°	7990.6	7940.5	7959.1	7860.4	7469.9	6907.7	6680.3	7365.5	8125.1	8123.6
37.5°	8285.3	8240.9	8256.7	8190.9	7931.9	7399.8	7013.6	7748.8	8784.5	8816.0
40°	8554.2	8507.0	8569.9	8508.4	8291.0	7923.4	7392.7	8182.3	9548.4	9608.5
42.5°	8715.8	8678.6	8783.1	8784.5	8602.8	8365.4	7808.9	8660.1	10432.4	10566.9
45°	8771.6	8758.8	8916.1	8949.0	8878.9	8621.4	8183.7	9180.7	11385.1	11625.4
47.5°	8711.5	8687.2	8904.7	9026.3	9082.0	8741.6	8494.1	9744.3	12357.8	12709.7
50°	8408.3	8361.1	8684.4	8940.4	9139.3	8820.3	8807.4	10395.2	13463.6	13848.4
52.5°	7863.3	7827.5	8195.1	8640.0	9013.4	8858.9	9159.3	11106.2	14513.5	15011.3
55°	7166.6	7119.4	7524.3	8105.0	8700.1	8846.0	9511.2	11901.5	15752.3	16257.3
57.5°	6062.3	5967.9	6480.0	7166.6	8189.4	8830.3	9877.4	12692.5	17011.1	17616.2
60°	4451.6	4311.4	4939.4	5753.3	7191.0	8677.2	10330.8	13579.4	18521.7	19066.7
62.5°	2592.0	2510.5	2921.0	3680.6	5420.0	7776.0	10585.5	14610.8	20006.5	20578.7
65°	2012.7	1989.8	2025.5	2084.2	3016.9	5822.0	9800.1	15616.4	21894.7	22295.3
67.5°	1841.0	1823.8	1839.6	1729.4	1530.6	3242.9	7753.1	15871.0	23917.4	24160.6
70°	1636.5	1616.4	1667.9	1573.5	1204.5	1474.8	5009.5	14947.0	25526.7	25983.0
72.5°	1333.2	1310.3	1430.5	1387.6	1014.2	947.0	2516.2	12751.2	25357.9	26304.9
75°	1024.2	1011.3	1154.4	1190.1	826.8	745.3	1207.3	9478.3	22315.3	23269.4
77.5°	795.3	785.3	858.3	988.5	666.6	577.9	742.4	6012.3	16816.6	16983.9
80°	596.5	567.9	635.1	765.3	519.3	422.0	503.5	3506.1	10629.8	9635.6
82.5°	373.4	359.0	414.8	510.7	366.2	290.4	327.6	1936.9	4259.9	2509.0
85°	213.1	207.4	226.0	291.8	198.8	167.4	187.4	855.4	778.2	535.0
87.5°	85.8	83.0	103.0	130.2	73.0	61.5	65.8	206.0	171.7	158.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951136
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5428.6	0°	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6
5450.1	2.5°	5444.4	5444.4	5424.3	5392.9	5357.1	5334.2	5297.0	5287.0	5248.4	5236.9
5498.7	5°	5510.2	5498.7	5437.2	5348.5	5226.9	5115.4	4992.3	4915.1	4806.4	4767.7
5594.6	7.5°	5593.1	5561.7	5455.8	5261.3	5006.6	4756.3	4496.0	4298.6	4109.7	4042.5
5673.2	10°	5668.9	5624.6	5444.4	5103.9	4663.3	4229.9	3815.1	3524.7	3304.4	3214.3
5760.5	12.5°	5744.8	5663.2	5368.5	4842.1	4175.5	3587.6	3145.6	2919.6	2783.7	2675.0
5832.0	15°	5816.3	5701.8	5251.2	4491.7	3640.5	3044.0	2717.9	2537.6	2428.9	2357.4
5936.4	17.5°	5899.2	5734.7	5075.3	4046.8	3131.3	2667.8	2401.8	2293.0	2271.6	2263.0
6079.5	20°	6015.1	5764.8	4843.6	3549.0	2756.5	2367.4	2230.1	2220.1	2218.7	2214.4
6251.1	22.5°	6139.6	5800.5	4537.4	3097.0	2437.5	2180.0	2155.7	2135.7	2122.8	2121.4
6458.6	25°	6286.9	5812.0	4154.1	2726.5	2165.7	2091.3	2062.7	2032.7	2024.1	2024.1
6694.6	27.5°	6430.0	5773.4	3707.8	2404.6	2012.7	2009.8	1972.6	1962.6	1961.2	1965.5
6963.5	30°	6573.0	5700.4	3264.3	2107.1	1924.0	1924.0	1911.1	1918.3	1924.0	1938.3
7332.6	32.5°	6766.1	5623.2	2893.8	1886.8	1846.7	1832.4	1845.3	1859.6	1865.3	1883.9
7817.5	35°	7049.3	5568.8	2599.2	1766.6	1766.6	1748.0	1755.2	1752.3	1739.4	1730.9
8404.0	37.5°	7424.1	5566.0	2356.0	1710.8	1699.4	1696.5	1698.0	1679.4	1629.3	1569.2
9113.5	40°	7874.7	5643.2	2168.6	1672.2	1663.6	1680.8	1672.2	1622.2	1484.8	1380.4
9986.1	42.5°	8479.8	5863.5	2048.4	1625.0	1650.8	1672.2	1637.9	1464.8	1371.8	1301.7
10980.3	45°	9192.2	6221.1	1986.9	1574.9	1626.4	1652.2	1486.3	1410.4	1336.1	1251.7
12064.6	47.5°	9999.0	6671.7	1972.6	1527.7	1572.1	1587.8	1421.9	1387.6	1303.2	1211.6
13154.6	50°	10877.3	7205.3	2011.2	1472.0	1493.4	1439.1	1400.4	1369.0	1281.7	1191.6
14271.8	52.5°	11785.6	7793.2	2088.5	1396.1	1414.7	1354.7	1391.8	1364.7	1268.8	1147.2
15426.2	55°	12678.2	8385.4	2162.9	1307.4	1334.6	1278.8	1367.5	1347.5	1210.2	1072.9
16657.8	57.5°	13585.2	8974.8	2235.8	1228.8	1257.4	1205.9	1328.9	1301.7	1144.4	1004.2
18002.4	60°	14527.8	9546.9	2270.2	1153.0	1173.0	1138.7	1270.3	1223.0	1070.0	934.1
19324.2	62.5°	15410.4	10023.3	2214.4	1077.1	1090.0	1075.7	1193.0	1130.1	995.6	855.4
20701.7	65°	16295.9	10306.5	2042.7	1002.8	1005.6	998.5	1084.3	1029.9	908.3	786.8
21907.6	67.5°	17098.4	10465.3	1769.5	922.7	915.5	912.6	982.7	921.2	823.9	718.1
22824.5	70°	17268.6	10061.9	1351.8	828.2	828.2	821.1	871.2	808.2	731.0	645.1
22168.0	72.5°	15772.3	8464.1	959.8	721.0	732.4	718.1	759.6	706.7	636.6	579.3
19105.3	75°	12718.3	6206.8	698.1	610.8	630.8	606.5	645.1	607.9	547.9	546.4
13166.0	77.5°	8738.7	3837.9	506.4	503.5	517.8	486.4	530.7	510.7	456.3	432.0
5730.5	80°	3729.2	1530.6	369.1	389.1	389.1	360.5	412.0	417.7	370.5	359.0
1105.8	82.5°	742.4	434.9	258.9	267.5	251.8	243.2	291.8	323.3	446.3	496.4
333.3	85°	223.2	160.2	155.9	145.9	128.7	130.2	171.7	324.7	400.5	228.9
110.1	87.5°	61.5	40.1	41.5	32.9	27.2	35.8	58.6	246.0	134.5	57.2
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>
5428.6
5255.5
4796.4
4051.1
3234.3
2710.7
2370.3
2268.7
2228.7
2137.1
2032.7
1976.9
1948.3
1899.7
1750.9
1570.7
1377.5
1298.9
1245.9
1204.5
1181.6
1138.7
1065.7
1001.3
929.8
854.0
778.2
709.5
642.3
562.2
492.1
404.8
359.0
497.8
197.4
48.6
0.0

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