

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: P955527

Luminaire Tested: **GALN-SB8B-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955527
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-SB8B-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30958 lumens
Efficiency: N/A
Efficacy: 105.7 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

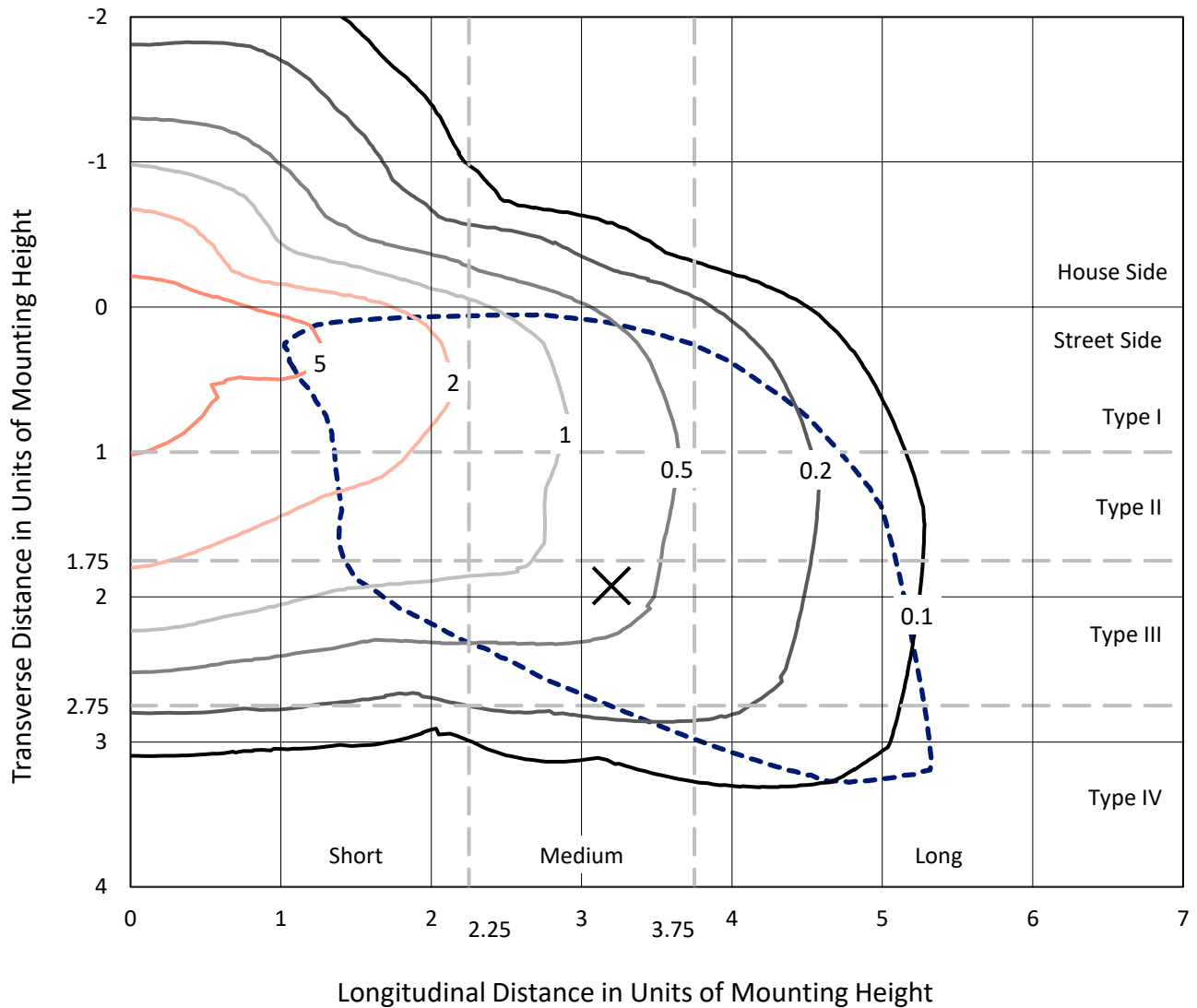
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

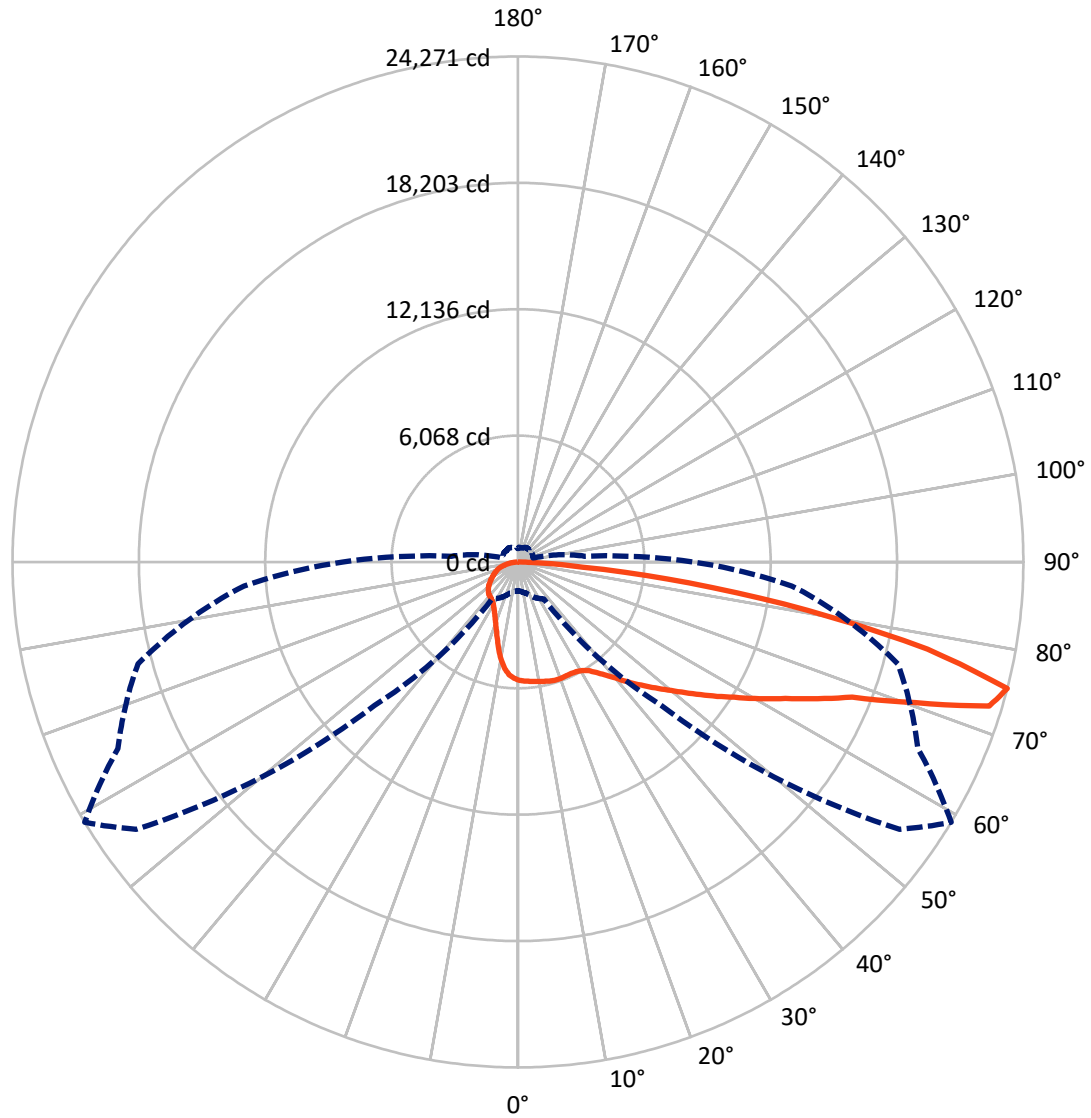
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	5806.4	0.0	5806.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25151.6	0.0	25151.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	30958.0	0.0	30958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	1.6
10°-20°	1302.3	4.2
20°-30°	1978.1	6.4
30°-40°	2940.5	9.5
40°-50°	4373.0	14.1
50°-60°	5935.8	19.2
60°-70°	7246.6	23.4
70°-80°	5687.1	18.4
80°-90°	985.1	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°	30958.0	100.0
0°-180°	30958.0	100.0

Coefficient of Utilization



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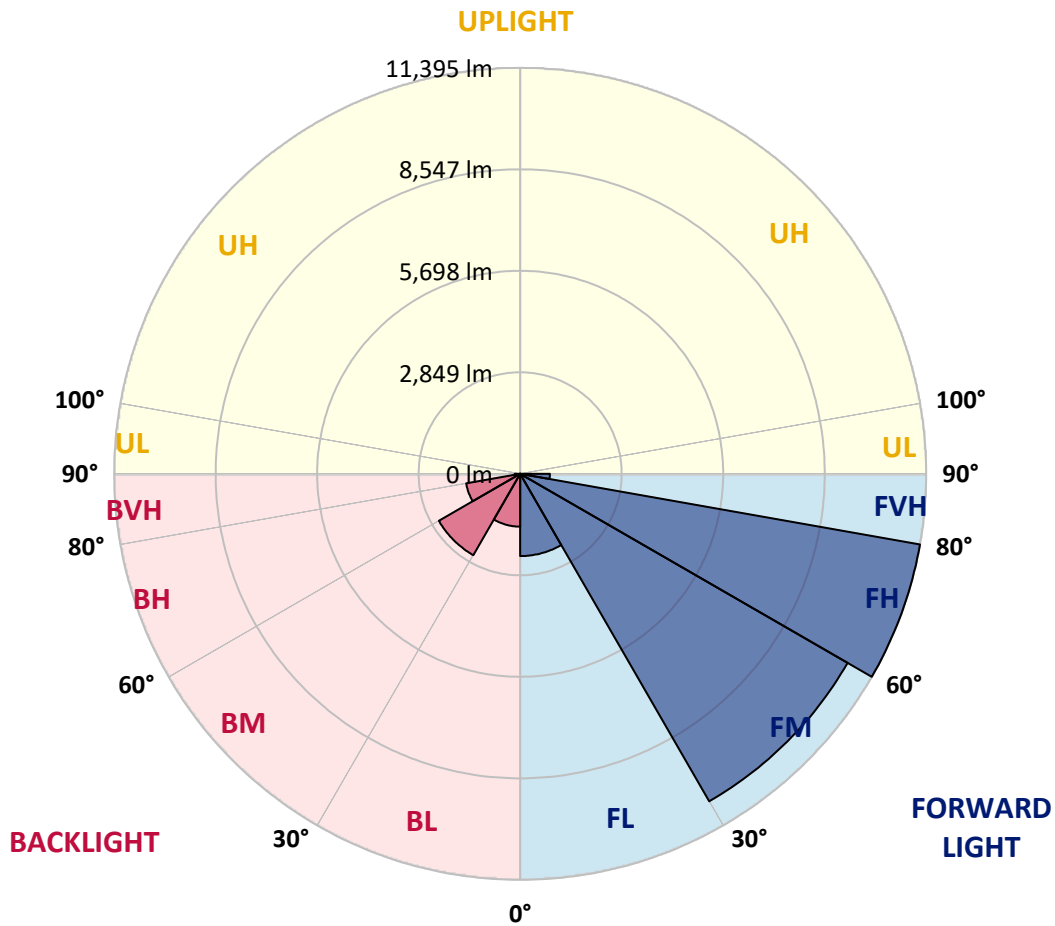
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.3	7.5			
FM (30°-60°)	10613.7	34.3			
FH (60°-80°)	11395.3	36.8			G4/12000
FVH (80°-90°)	834.3	2.7			G5
BL (0°-30°)	1481.7	4.8	B3/2500		
BM (30°-60°)	2635.5	8.5	B3/5000		
BH (60°-80°)	1538.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	150.8	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3
2.5°	5730.6	5710.6	5730.6	5722.2	5718.9	5712.2	5713.9	5725.6	5718.9	5727.2
5°	5692.3	5680.6	5700.6	5695.6	5717.2	5720.6	5742.2	5755.5	5763.9	5765.5
7.5°	5629.0	5617.3	5645.6	5668.9	5715.6	5728.9	5773.9	5795.5	5807.2	5827.2
10°	5397.5	5392.5	5462.4	5550.7	5660.6	5728.9	5797.2	5833.8	5852.1	5905.4
12.5°	4987.8	4994.5	5086.1	5255.9	5475.8	5695.6	5823.8	5877.1	5905.4	5972.0
15°	4596.4	4594.8	4694.7	4876.2	5184.3	5549.0	5837.2	5928.7	5977.0	6075.3
17.5°	4370.0	4363.3	4433.2	4571.5	4857.9	5324.2	5803.8	5957.1	6060.3	6183.6
20°	4328.3	4315.0	4351.6	4419.9	4623.1	5077.7	5717.2	5957.1	6126.9	6286.8
22.5°	4479.9	4458.2	4443.2	4434.9	4524.8	4874.6	5619.0	5937.1	6225.2	6435.0
25°	4784.6	4751.3	4674.7	4599.8	4573.1	4783.0	5532.4	5932.1	6371.7	6634.9
27.5°	5277.6	5236.0	5081.1	4901.2	4739.7	4829.6	5494.1	5962.1	6533.3	6846.4
30°	5888.8	5843.8	5649.0	5372.5	5082.7	5002.8	5542.4	6050.3	6739.8	7127.8
32.5°	6436.7	6386.7	6220.2	5938.7	5547.4	5302.6	5695.6	6218.5	7064.5	7519.2
35°	6923.0	6864.7	6714.8	6455.0	6116.9	5723.9	5972.0	6516.6	7525.8	8155.4
37.5°	7399.3	7331.0	7167.8	6893.0	6656.5	6285.1	6353.4	6899.7	8138.7	8928.1
40°	7932.2	7833.9	7635.8	7364.3	7134.5	6943.0	6854.7	7369.3	8761.6	9790.8
42.5°	8448.5	8355.2	8118.7	7887.2	7599.1	7544.2	7435.9	7918.9	9442.7	10738.4
45°	9004.7	8893.1	8606.7	8313.6	8132.0	7943.9	7998.8	8468.5	10110.5	11704.3
47.5°	9526.0	9401.1	9063.0	8736.6	8636.7	8280.3	8515.1	9073.0	10805.0	12683.5
50°	9807.4	9684.2	9402.7	9108.0	9029.7	8694.9	9074.6	9737.5	11532.7	13659.4
52.5°	10042.2	9909.0	9541.0	9377.7	9354.4	9146.3	9764.1	10496.9	12260.5	14522.1
55°	10292.0	10143.8	9674.2	9527.6	9634.2	9652.5	10581.8	11357.9	13029.9	15363.1
57.5°	10580.2	10392.0	9802.4	9654.2	9907.3	10245.4	11521.1	12250.5	13786.0	16142.5
60°	10851.6	10661.8	10048.9	9855.7	10202.1	10933.2	12598.6	13331.4	14642.0	16837.0
62.5°	10904.9	10748.4	10245.4	10243.7	10601.8	11735.9	13874.3	14422.2	15389.8	17523.1
65°	9982.3	9884.0	9585.9	10228.8	11174.7	12891.7	15294.8	15817.8	16340.7	18122.7
67.5°	7597.5	7610.8	7589.1	8829.8	10711.7	14552.1	17351.6	17311.6	17514.8	18795.5
70°	3474.0	3552.3	4061.9	6095.3	8581.7	14743.6	20752.3	20234.4	18988.6	19666.5
72.5°	1876.9	1936.8	2145.0	2952.7	5159.3	13108.2	23293.7	23661.7	20948.8	20252.7
75°	1377.3	1410.6	1555.5	1876.9	2166.7	9742.5	22382.7	24271.2	21193.6	18885.4
77.5°	1030.9	1045.9	1164.1	1487.2	1109.1	5136.0	17884.5	20101.1	18142.6	15516.3
80°	747.8	764.4	852.7	1115.8	777.7	1878.5	12280.5	14109.1	12425.4	9890.7
82.5°	516.3	522.9	561.2	759.4	542.9	729.4	6967.9	8273.6	6936.3	3470.6
85°	311.4	319.8	336.4	443.0	308.1	346.4	3007.7	3110.9	2073.4	829.4
87.5°	128.2	136.6	149.9	186.5	121.6	96.6	496.3	622.9	388.0	243.1
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°
5682.3	0°	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3	5682.3
5698.9	2.5°	5690.6	5678.9	5647.3	5604.0	5564.0	5514.1	5492.4	5474.1	5457.4	5425.8
5743.9	5°	5725.6	5693.9	5609.0	5499.1	5374.2	5237.6	5104.4	5012.8	4934.5	4876.2
5795.5	7.5°	5778.9	5718.9	5564.0	5339.2	5052.8	4759.7	4494.9	4306.7	4165.1	4113.5
5868.8	10°	5833.8	5762.2	5492.4	5096.1	4601.4	4150.1	3798.7	3605.5	3492.3	3455.7
5955.4	12.5°	5898.8	5793.9	5380.8	4758.0	4096.8	3602.2	3295.8	3182.5	3124.3	3104.3
6062.0	15°	5993.7	5820.5	5212.6	4335.0	3615.5	3202.5	3004.3	2926.1	2896.1	2894.4
6171.9	17.5°	6065.3	5825.5	4951.2	3882.0	3245.8	2961.0	2797.8	2767.9	2787.8	2817.8
6280.1	20°	6145.2	5780.5	4608.1	3469.0	2986.0	2749.5	2681.3	2701.2	2749.5	2792.8
6423.4	22.5°	6201.9	5698.9	4193.4	3147.6	2761.2	2628.0	2624.6	2666.3	2692.9	2714.6
6591.6	25°	6251.8	5560.7	3753.8	2877.8	2576.3	2554.7	2591.3	2578.0	2559.7	2578.0
6759.8	27.5°	6288.5	5342.5	3360.7	2641.3	2446.4	2504.7	2483.1	2453.1	2451.4	2461.4
6958.0	30°	6276.8	5051.1	3037.7	2416.5	2354.8	2411.5	2359.8	2354.8	2349.8	2354.8
7256.1	32.5°	6276.8	4719.7	2789.5	2261.6	2296.6	2274.9	2269.9	2258.3	2238.3	2236.6
7660.7	35°	6311.8	4388.3	2576.3	2178.3	2248.3	2196.6	2200.0	2171.7	2130.0	2110.0
8197.0	37.5°	6383.4	4121.8	2364.8	2138.3	2163.3	2161.7	2148.3	2100.0	2026.8	1963.5
8866.5	40°	6556.6	4043.5	2219.9	2120.0	2123.4	2143.3	2108.4	2015.1	1848.6	1745.3
9546.0	42.5°	6828.1	4175.1	2188.3	2075.1	2096.7	2116.7	2048.4	1831.9	1713.7	1652.1
10258.7	45°	7172.8	4404.9	2256.6	2010.1	2033.4	2068.4	1865.2	1762.0	1708.7	1710.3
10964.9	47.5°	7609.1	4646.4	2383.2	1953.5	1941.8	1961.8	1743.7	1680.4	1607.1	1625.4
11642.7	50°	8113.7	4891.2	2503.1	1876.9	1840.2	1775.3	1665.4	1605.4	1512.2	1468.9
12297.2	52.5°	8660.0	5127.7	2551.4	1783.6	1730.3	1655.4	1612.1	1538.8	1425.6	1354.0
12915.0	55°	9177.9	5342.5	2498.1	1672.0	1620.4	1562.1	1555.5	1510.5	1388.9	1289.0
13464.6	57.5°	9667.5	5522.4	2364.8	1558.8	1508.8	1473.9	1518.8	1497.2	1344.0	1215.7
13984.2	60°	10082.2	5645.6	2171.7	1443.9	1408.9	1390.6	1458.9	1452.2	1280.7	1137.5
14450.5	62.5°	10411.9	5693.9	1958.5	1334.0	1325.6	1292.3	1375.6	1375.6	1200.7	1060.8
14860.2	65°	10670.1	5647.3	1742.0	1225.7	1242.4	1192.4	1274.0	1264.0	1115.8	992.6
15331.5	67.5°	10898.2	5494.1	1502.2	1119.1	1157.4	1094.2	1167.4	1144.1	1022.5	924.3
15739.5	70°	10999.8	5137.7	1229.0	1012.6	1059.2	997.6	1060.8	1017.5	917.6	851.0
15291.5	72.5°	10183.8	4270.0	967.6	901.0	940.9	891.0	945.9	896.0	804.4	774.4
13204.8	75°	8425.2	3204.2	744.4	779.4	809.4	771.1	807.7	771.1	687.8	709.5
9754.1	77.5°	6118.6	2163.3	569.6	651.2	664.5	644.5	676.1	634.5	559.6	554.6
4861.2	80°	3042.6	1267.4	446.3	514.6	509.6	496.3	532.9	512.9	449.7	476.3
1312.3	82.5°	881.0	542.9	324.7	361.4	351.4	354.7	381.4	391.4	586.2	581.2
408.0	85°	276.5	213.2	194.8	201.5	191.5	196.5	224.8	446.3	413.0	241.5
126.6	87.5°	71.6	73.3	48.3	51.6	53.3	63.3	71.6	271.5	129.9	84.9
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>
5682.3
5410.8
4827.9
4023.6
3399.0
3109.3
2901.1
2829.5
2807.8
2726.2
2589.7
2478.1
2373.2
2258.3
2130.0
1985.1
1758.6
1652.1
1718.7
1672.0
1480.5
1352.3
1289.0
1209.1
1132.5
1055.9
985.9
917.6
837.7
749.4
647.8
529.6
471.3
594.5
261.5
89.9
0.0

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