

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: P944402

Luminaire Tested: **GALN-SB9B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45684 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

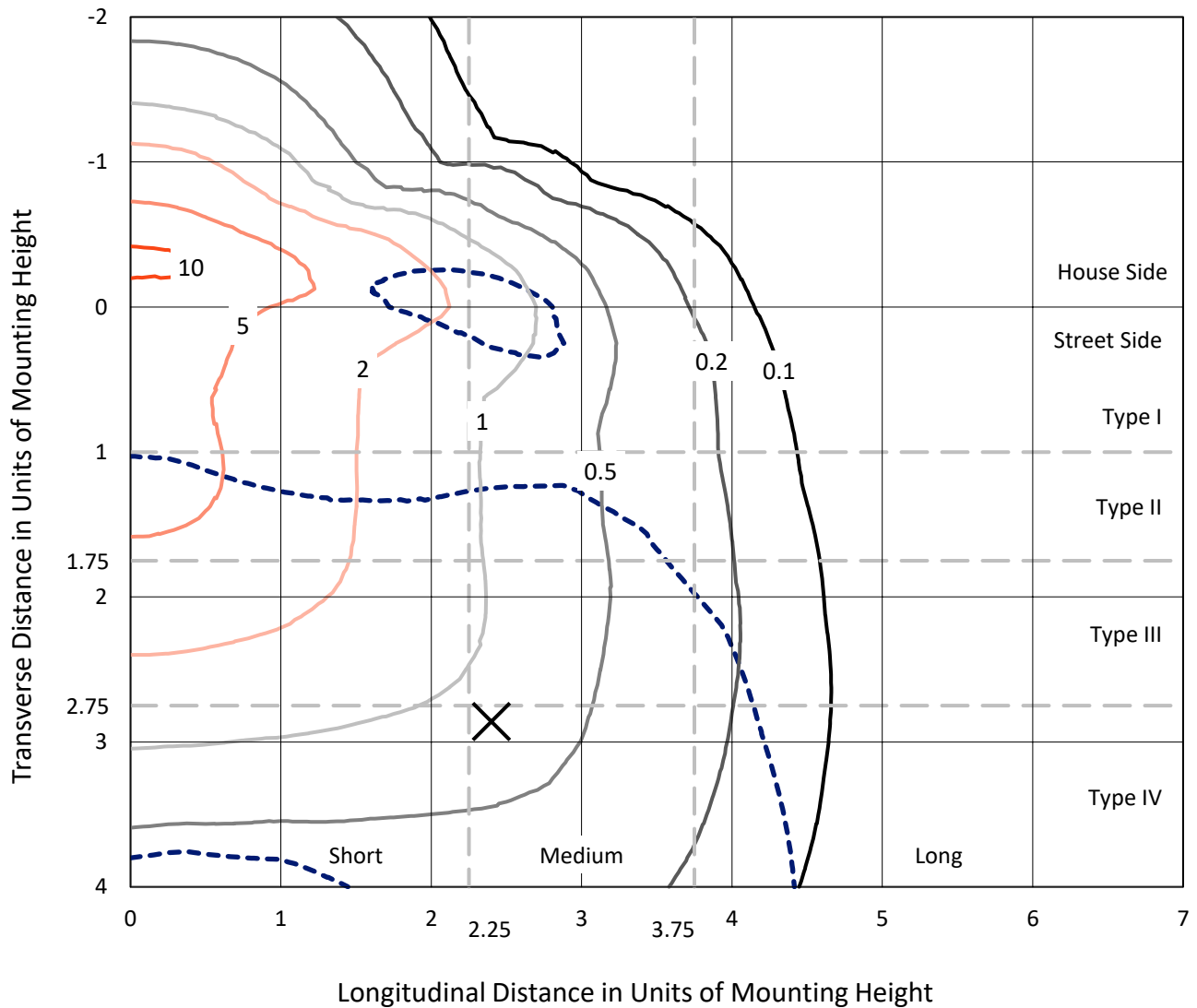
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

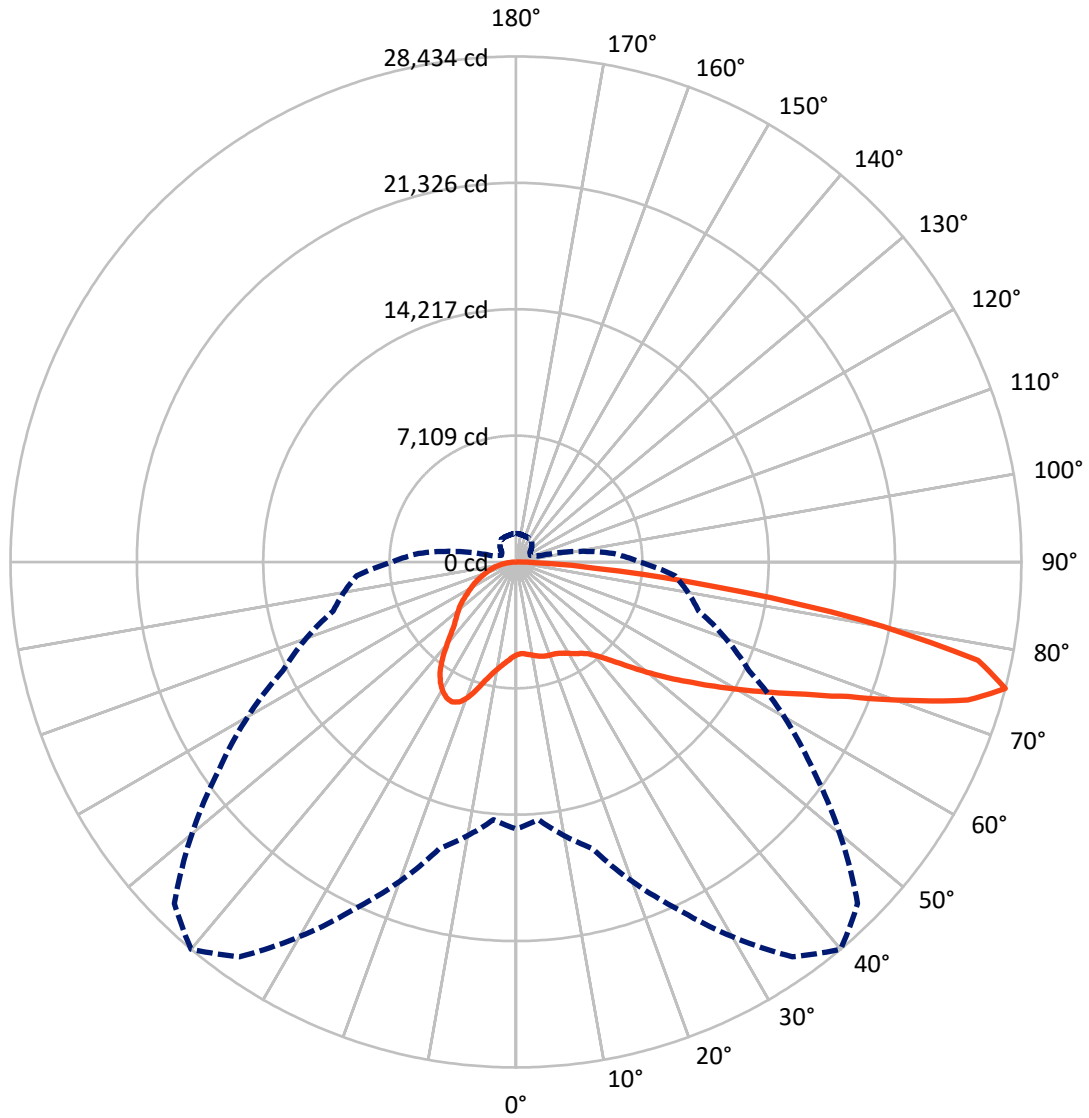
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14154.4	0.0	14154.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	31529.6	0.0	31529.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	45684.0	0.0	45684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.5	1.1
10°-20°	1750.8	3.8
20°-30°	3196.8	7.0
30°-40°	4533.9	9.9
40°-50°	6122.1	13.4
50°-60°	8235.9	18.0
60°-70°	10453.2	22.9
70°-80°	9487.0	20.8
80°-90°	1382.9	3.0
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°	45684.0	100.0
0°-180°	45684.0	100.0

Coefficient of Utilization



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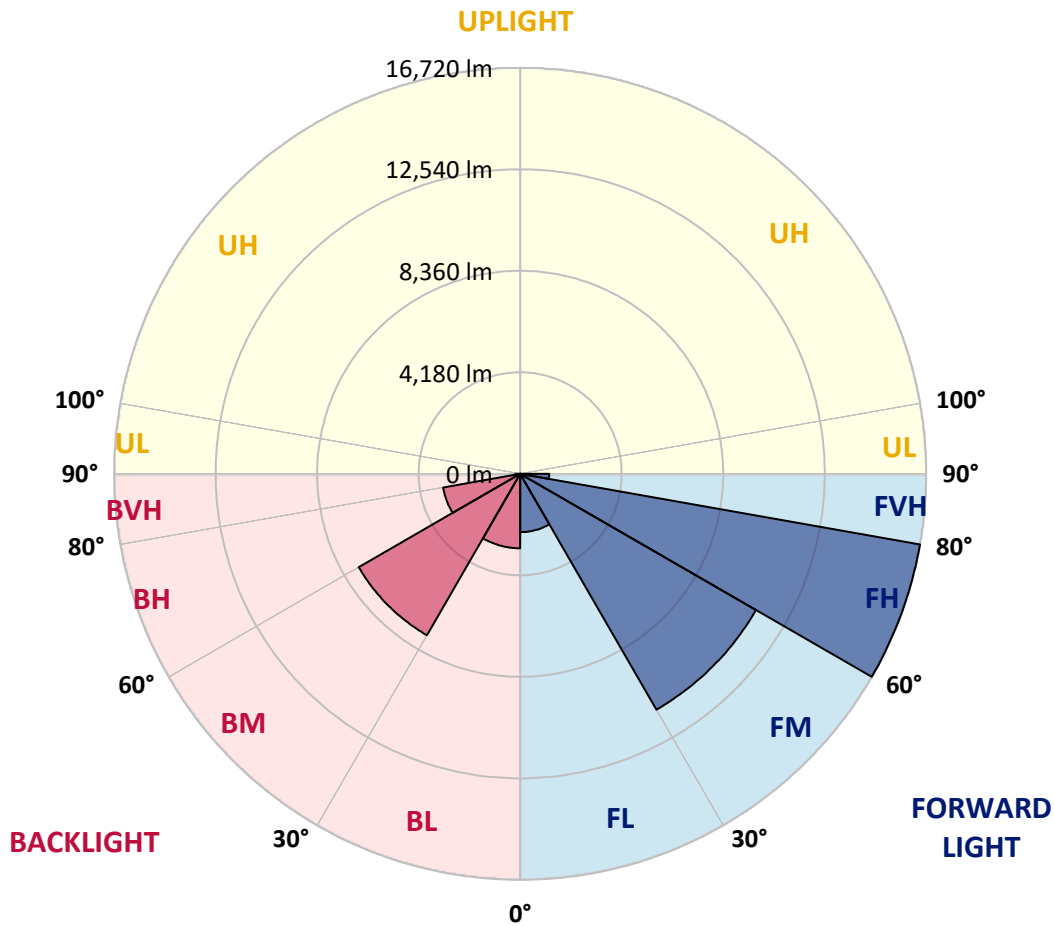
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2403.0	5.3			
FM (30°-60°)	11214.4	24.5			
FH (60°-80°)	16719.6	36.6			G5
FVH (80°-90°)	1192.5	2.6			G5
BL (0°-30°)	3066.0	6.7	B4/5000		
BM (30°-60°)	7677.5	16.8	B4/8500		
BH (60°-80°)	3220.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	190.4	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0
2.5°	5144.1	5173.1	5165.9	5156.2	5156.2	5158.6	5156.2	5173.1	5190.1	5207.1
5°	5197.4	5226.4	5211.9	5199.8	5190.1	5187.7	5180.4	5178.0	5187.7	5209.5
7.5°	5301.6	5330.6	5308.8	5287.0	5267.6	5257.9	5248.3	5233.7	5226.4	5238.6
10°	5417.9	5446.9	5420.3	5381.5	5350.0	5337.9	5328.2	5313.7	5304.0	5311.3
12.5°	5534.2	5563.2	5526.9	5473.6	5432.4	5425.1	5413.0	5408.2	5405.8	5403.3
15°	5643.2	5667.4	5621.4	5558.4	5514.8	5502.7	5490.6	5497.8	5509.9	5524.5
17.5°	5728.0	5752.2	5684.4	5602.0	5560.8	5556.0	5548.7	5572.9	5606.9	5643.2
20°	5805.6	5829.8	5742.6	5631.1	5582.6	5582.6	5585.1	5635.9	5684.4	5737.7
22.5°	5914.6	5934.0	5827.4	5674.7	5604.4	5609.3	5628.7	5679.6	5740.1	5812.8
25°	6076.9	6091.5	5960.6	5757.1	5677.1	5691.7	5708.6	5732.9	5791.0	5875.8
27.5°	6338.6	6350.7	6178.7	5902.5	5781.3	5805.6	5829.8	5812.8	5839.5	5912.2
30°	6706.9	6714.2	6496.1	6130.2	5958.2	5970.3	5975.2	5904.9	5854.0	5912.2
32.5°	7143.1	7140.6	6881.4	6406.5	6159.3	6147.2	6106.0	5967.9	5849.2	5900.0
35°	7819.1	7792.4	7458.0	6794.1	6387.1	6312.0	6215.0	6038.2	5873.4	5887.9
37.5°	8938.5	8856.1	8393.3	7429.0	6726.3	6534.9	6391.9	6152.0	5926.7	5883.1
40°	10200.9	10096.7	9587.9	8298.8	7235.1	6927.4	6697.2	6314.4	6013.9	5904.9
42.5°	11698.3	11550.5	11002.9	9323.8	7879.7	7433.8	7087.3	6520.3	6142.4	5975.2
45°	13537.4	13341.1	12565.8	10479.6	8691.4	8097.7	7634.9	6832.9	6338.6	6110.9
47.5°	15395.9	15444.3	14341.8	11802.5	9665.4	8916.7	8320.6	7303.0	6624.5	6328.9
50°	17370.6	17404.5	16108.2	13268.4	10770.3	9842.3	9091.2	7828.8	7021.9	6639.1
52.5°	18911.7	18916.5	17712.3	14802.2	11921.2	10860.0	9922.3	8429.7	7482.3	7051.0
55°	19876.0	19863.9	18836.5	16253.6	13244.2	11928.5	10843.0	9113.0	8044.4	7535.6
57.5°	20576.3	20539.9	19611.9	17501.5	14654.4	13190.9	11884.9	9888.3	8708.3	8112.3
60°	20842.8	20821.0	20137.7	18579.7	16137.3	14586.6	13086.7	10755.8	9461.9	8793.1
62.5°	20944.6	20985.8	20653.8	19624.0	17724.4	16132.5	14407.3	11792.8	10309.9	9563.7
65°	21303.2	21378.3	21310.4	20990.6	19517.4	17942.4	16159.1	13026.1	11235.5	10389.9
67.5°	22013.1	22088.2	22117.3	22626.1	21707.8	20198.3	18344.7	14562.3	12318.6	11247.6
70°	21996.2	21974.3	22488.0	23927.3	24450.7	23321.5	21291.1	16452.3	13610.1	11960.0
72.5°	20021.4	19846.9	21060.9	23912.8	26733.2	26582.9	24889.2	18889.8	14724.7	12047.2
75°	15020.3	14555.1	16699.4	21550.3	27113.6	28434.1	27176.6	20401.8	14460.6	10644.3
77.5°	6423.4	5955.8	8483.0	15953.1	24266.5	26580.5	25078.2	17799.5	11543.3	7038.9
80°	1681.6	1679.2	2563.6	7232.7	16503.2	19628.9	17220.4	11494.8	6595.5	2515.1
82.5°	695.4	678.4	942.6	2813.1	8063.8	11015.0	8989.4	5127.1	2381.8	680.9
85°	259.3	256.8	458.0	971.6	2844.6	4543.2	3288.0	1310.9	593.6	332.0
87.5°	72.7	70.3	99.3	336.8	693.0	1051.6	562.1	215.6	167.2	130.8
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°
5224.0	0°	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0
5233.7	2.5°	5241.0	5253.1	5274.9	5291.9	5313.7	5337.9	5371.8	5393.6	5415.4	5430.0
5245.8	5°	5262.8	5289.4	5345.2	5400.9	5466.3	5526.9	5597.2	5648.1	5689.2	5701.4
5289.4	7.5°	5311.3	5354.9	5449.4	5543.9	5648.1	5747.4	5849.2	5936.4	6006.7	6033.3
5367.0	10°	5396.1	5454.2	5587.5	5720.7	5858.9	6011.5	6142.4	6268.3	6367.7	6408.9
5459.1	12.5°	5502.7	5575.4	5749.8	5934.0	6125.4	6336.2	6505.8	6660.9	6784.4	6840.2
5587.5	15°	5640.8	5735.3	5958.2	6205.3	6486.4	6779.6	6995.3	7167.3	7305.4	7373.2
5720.7	17.5°	5791.0	5917.0	6198.1	6571.2	6973.4	7358.7	7610.7	7736.7	7879.7	7945.1
5844.3	20°	5936.4	6091.5	6493.7	7036.4	7571.9	7981.4	8185.0	8218.9	8228.6	8235.8
5960.6	22.5°	6086.6	6295.0	6864.4	7622.8	8197.1	8480.6	8509.6	8364.3	8160.7	8066.2
6074.5	25°	6251.4	6527.6	7349.0	8269.8	8735.0	8768.9	8546.0	8192.2	7807.0	7630.1
6166.6	27.5°	6411.3	6796.6	7930.5	8887.6	9122.7	8824.6	8344.9	7843.3	7378.1	7191.5
6232.0	30°	6571.2	7104.3	8572.6	9428.0	9299.5	8686.5	8027.5	7467.7	7000.1	6803.8
6290.2	32.5°	6733.6	7462.9	9311.7	9818.1	9268.0	8393.3	7632.5	7046.1	6634.2	6428.3
6341.0	35°	6917.7	7903.9	10011.9	10031.3	9057.2	7962.0	7111.6	6542.1	6183.5	6018.8
6401.6	37.5°	7157.6	8463.6	10629.8	10084.6	8688.9	7329.6	6464.6	5946.1	5650.5	5575.4
6491.3	40°	7455.6	9137.2	11102.3	9999.8	8143.8	6561.5	5757.1	5342.8	5175.6	5192.5
6612.4	42.5°	7843.3	9890.8	11434.2	9781.7	7385.4	5769.2	5136.8	4952.6	5032.6	5100.5
6794.1	45°	8347.3	10673.4	11640.2	9411.0	6527.6	5098.0	4770.9	4814.5	4875.1	4882.4
7087.3	47.5°	8991.8	11465.7	11775.9	8851.3	5652.9	4625.5	4538.3	4548.0	4535.9	4485.0
7525.9	50°	9796.3	12236.2	11897.0	8109.8	4909.0	4329.9	4213.6	4179.7	4012.5	3847.8
8109.8	52.5°	10712.2	12943.8	11947.9	7189.1	4329.9	4082.8	3893.8	3680.6	3368.0	3317.1
8844.0	55°	11729.8	13598.0	11817.1	6057.5	3842.9	3765.4	3479.5	3222.6	3188.7	3145.1
9810.8	57.5°	12946.2	14303.1	11550.5	4795.2	3343.8	3394.6	3116.0	3145.1	3084.5	3016.7
11053.8	60°	14276.4	15032.4	11082.9	3644.2	2827.7	2931.9	3021.5	3019.1	3002.1	2946.4
12364.7	62.5°	15473.4	15512.2	10162.1	2791.3	2374.6	2573.2	2818.0	2815.5	2801.0	2769.5
13733.7	65°	16185.8	15439.5	8625.9	2197.7	2001.4	2277.6	2541.7	2561.1	2563.6	2561.1
14763.4	67.5°	16059.8	14589.0	6517.9	1749.4	1693.7	1977.2	2267.9	2294.6	2314.0	2318.8
14894.3	70°	14635.0	12720.8	4250.0	1395.7	1419.9	1713.1	2008.7	2035.3	2052.3	2071.7
12924.4	72.5°	11407.6	9352.8	2432.7	1129.1	1180.0	1485.3	1751.8	1783.3	1793.0	1829.4
8994.2	75°	6951.6	5500.3	1313.3	889.2	969.2	1269.7	1497.4	1533.8	1550.7	1594.3
4417.2	77.5°	3305.0	2381.8	748.7	693.0	780.2	1037.1	1264.8	1306.0	1260.0	1284.2
1218.8	80°	1117.0	884.4	472.5	528.2	596.1	809.3	1012.8	1054.0	957.1	952.2
404.6	82.5°	390.1	358.6	300.5	351.3	385.3	579.1	765.7	819.0	712.4	709.9
181.7	85°	152.7	145.4	167.2	191.4	230.2	356.2	504.0	530.6	438.6	353.8
53.3	87.5°	31.5	33.9	41.2	43.6	70.3	123.6	181.7	222.9	176.9	150.2
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>
5224.0
5420.3
5706.2
6035.7
6411.3
6840.2
7368.4
7942.7
8255.2
8092.9
7656.7
7213.3
6825.6
6454.9
6055.1
5628.7
5250.7
5163.5
4930.8
4523.8
3869.6
3334.1
3152.3
3004.5
2927.0
2757.4
2561.1
2323.7
2081.4
1843.9
1599.2
1264.8
942.6
676.0
348.9
138.1
0.0

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