

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: P941292

Luminaire Tested: **GALN-SB4D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941292
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-SB4D-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40427 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

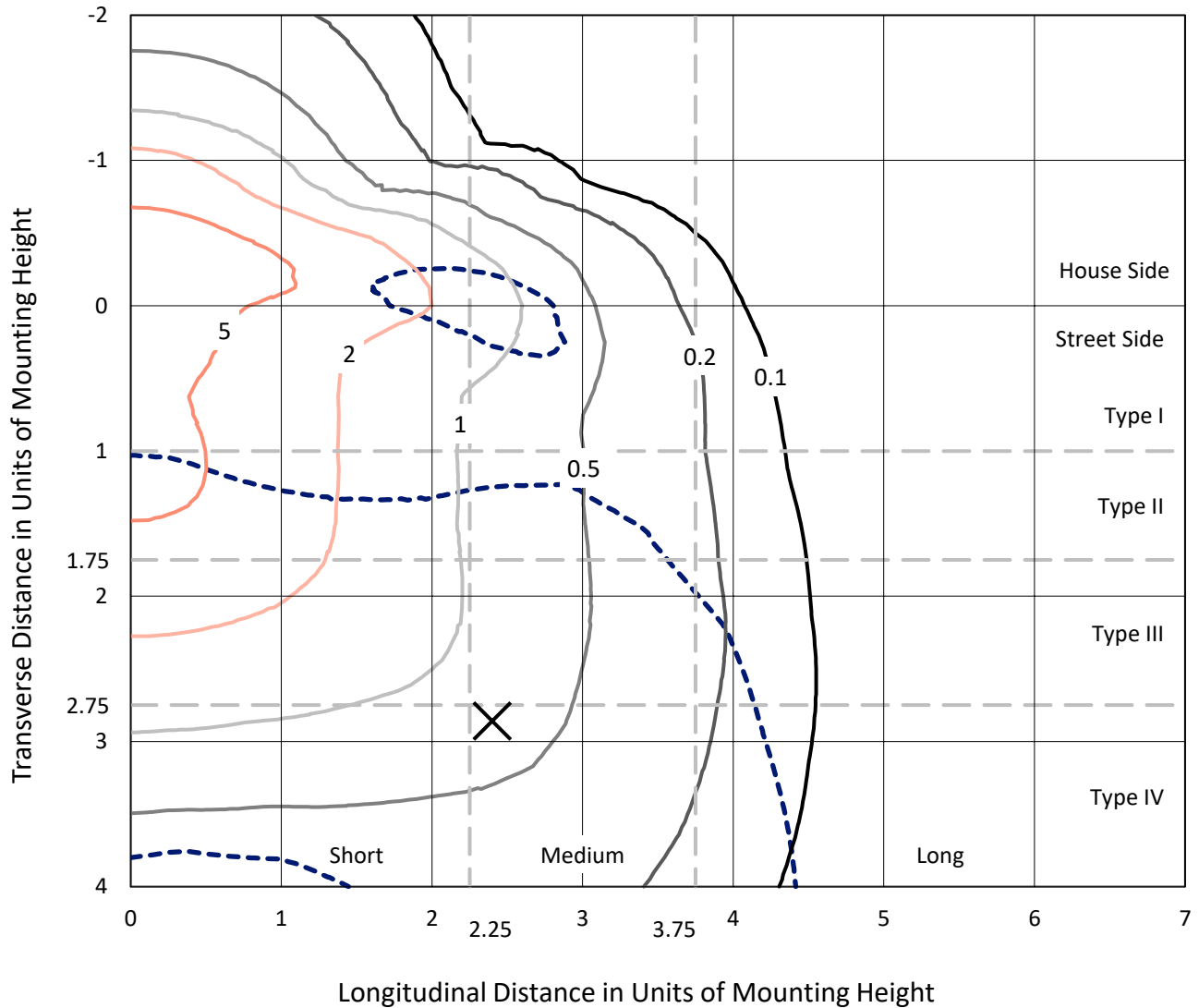
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

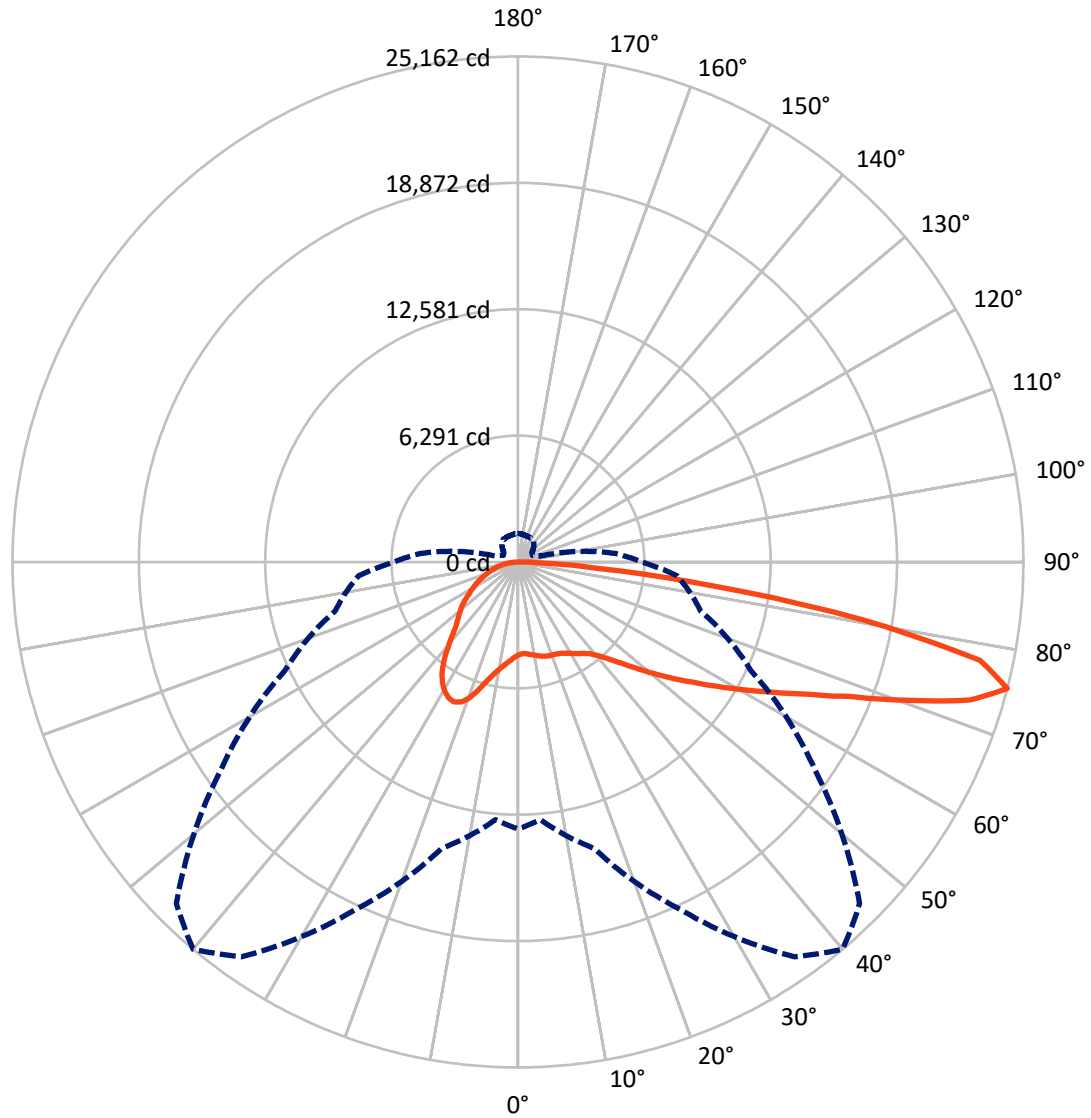
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	12525.6	0.0	12525.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27901.4	0.0	27901.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	40427.0	0.0	40427.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	1.1
10°-20°	1549.3	3.8
20°-30°	2828.9	7.0
30°-40°	4012.2	9.9
40°-50°	5417.6	13.4
50°-60°	7288.2	18.0
60°-70°	9250.4	22.9
70°-80°	8395.3	20.8
80°-90°	1223.8	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°	40427.0	100.0
0°-180°	40427.0	100.0

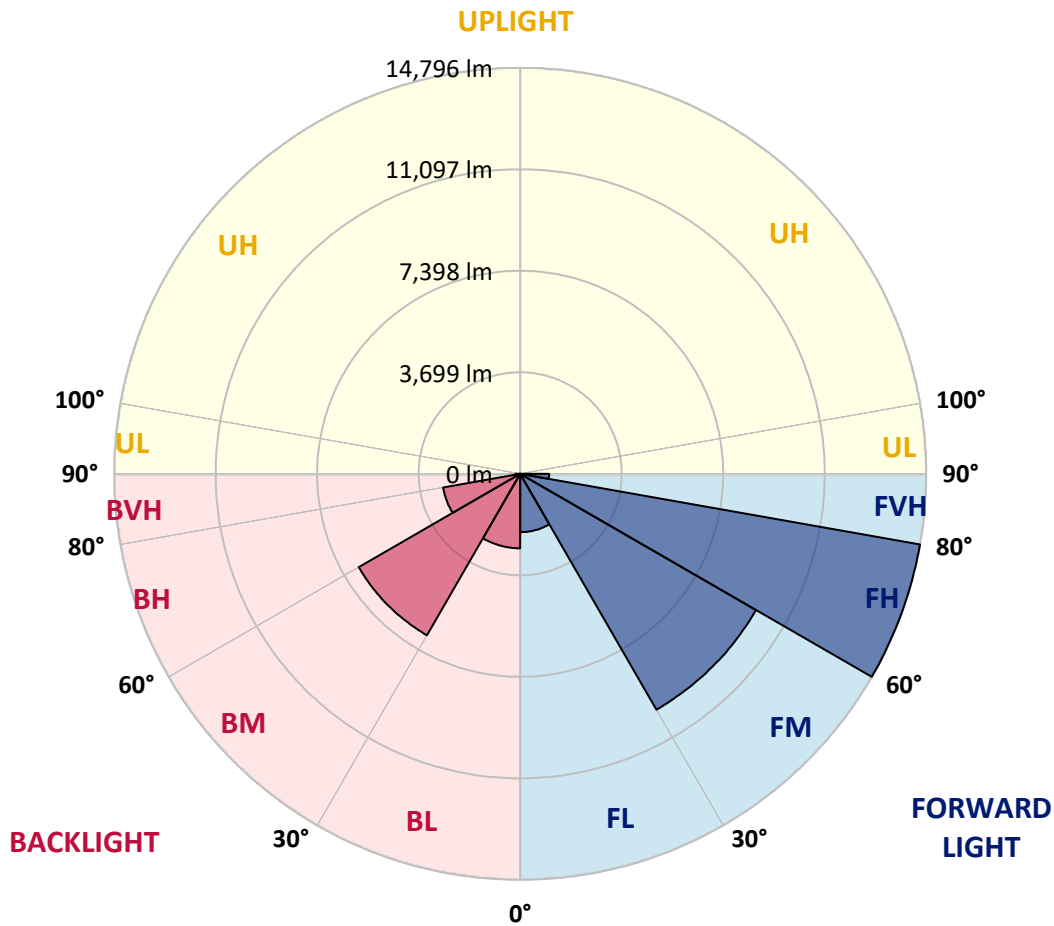


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.5	5.3			
FM (30°-60°)	9923.9	24.5			
FH (60°-80°)	14795.7	36.6			G5
FVH (80°-90°)	1055.3	2.6			G5
BL (0°-30°)	2713.2	6.7	B4/5000		
BM (30°-60°)	6794.0	16.8	B4/8500		
BH (60°-80°)	2850.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	168.5	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°	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9
2.5°	4552.1	4577.9	4571.4	4562.8	4562.8	4565.0	4562.8	4577.9	4592.9	4607.9
5°	4599.3	4625.0	4612.2	4601.4	4592.9	4590.7	4584.3	4582.1	4590.7	4610.0
7.5°	4691.5	4717.2	4697.9	4678.6	4661.5	4652.9	4644.3	4631.5	4625.0	4635.7
10°	4794.4	4820.1	4796.6	4762.3	4734.4	4723.7	4715.1	4702.2	4693.6	4700.1
12.5°	4897.3	4923.1	4890.9	4843.7	4807.3	4800.8	4790.1	4785.8	4783.7	4781.6
15°	4993.8	5015.3	4974.5	4918.8	4880.2	4869.5	4858.7	4865.2	4875.9	4888.8
17.5°	5068.9	5090.3	5030.3	4957.4	4920.9	4916.6	4910.2	4931.6	4961.7	4993.8
20°	5137.5	5158.9	5081.7	4983.1	4940.2	4940.2	4942.4	4987.4	5030.3	5077.5
22.5°	5234.0	5251.1	5156.8	5021.7	4959.5	4963.8	4981.0	5026.0	5079.6	5143.9
25°	5377.6	5390.5	5274.7	5094.6	5023.8	5036.7	5051.7	5073.2	5124.6	5199.7
27.5°	5609.2	5619.9	5467.7	5223.3	5116.0	5137.5	5158.9	5143.9	5167.5	5231.8
30°	5935.1	5941.6	5748.6	5424.8	5272.6	5283.3	5287.6	5225.4	5180.4	5231.8
32.5°	6321.1	6318.9	6089.5	5669.2	5450.5	5439.8	5403.4	5281.1	5176.1	5221.1
35°	6919.3	6895.7	6599.8	6012.3	5652.1	5585.6	5499.9	5343.3	5197.5	5210.4
37.5°	7909.9	7837.0	7427.5	6574.1	5952.3	5782.9	5656.4	5444.1	5244.7	5206.1
40°	9027.1	8934.9	8484.6	7343.9	6402.6	6130.2	5926.6	5587.8	5321.9	5225.4
42.5°	10352.2	10221.4	9736.8	8250.9	6972.9	6578.4	6271.8	5770.0	5435.5	5287.6
45°	11979.6	11805.9	11119.8	9273.6	7691.2	7165.9	6756.4	6046.6	5609.2	5407.7
47.5°	13624.2	13667.1	12691.5	10444.4	8553.2	7890.6	7363.2	6462.6	5862.2	5600.6
50°	15371.7	15401.7	14254.6	11741.6	9530.9	8709.7	8045.0	6927.9	6213.9	5875.1
52.5°	16735.4	16739.7	15674.1	13098.9	10549.4	9610.3	8780.5	7459.6	6621.3	6239.6
55°	17588.8	17578.1	16669.0	14383.3	11720.2	10555.9	9595.3	8064.3	7118.7	6668.4
57.5°	18208.5	18176.3	17355.1	15487.5	12968.1	11673.0	10517.3	8750.5	7706.2	7178.8
60°	18444.4	18425.1	17820.4	16441.7	14280.3	12908.0	11580.8	9518.1	8373.1	7781.3
62.5°	18534.4	18570.9	18277.1	17365.8	15684.8	14276.0	12749.4	10435.8	9123.5	8463.1
65°	18851.7	18918.2	18858.2	18575.1	17271.5	15877.8	14299.6	11527.2	9942.6	9194.3
67.5°	19480.0	19546.5	19572.2	20022.5	19209.8	17874.0	16233.7	12886.6	10901.1	9953.3
70°	19465.0	19445.7	19900.3	21173.9	21637.1	20637.9	18841.0	14559.1	12043.9	10583.7
72.5°	17717.5	17563.1	18637.3	21161.0	23656.9	23523.9	22025.2	16716.1	13030.3	10660.9
75°	13291.9	12880.2	14777.8	19070.5	23993.5	25162.1	24049.3	18054.1	12796.5	9419.4
77.5°	5684.3	5270.4	7506.8	14117.4	21474.1	23521.8	22192.4	15751.2	10214.9	6228.9
80°	1488.1	1485.9	2268.6	6400.4	14604.1	17370.1	15238.8	10172.1	5836.5	2225.7
82.5°	615.4	600.4	834.1	2489.4	7135.9	9747.5	7955.0	4537.1	2107.7	602.5
85°	229.4	227.3	405.3	859.8	2517.3	4020.4	2909.7	1160.0	525.3	293.8
87.5°	64.3	62.2	87.9	298.0	613.2	930.6	497.5	190.8	147.9	115.8
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°
4622.9	0°	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9
4631.5	2.5°	4637.9	4648.6	4667.9	4682.9	4702.2	4723.7	4753.7	4773.0	4792.3	4805.1
4642.2	5°	4657.2	4680.8	4730.1	4779.4	4837.3	4890.9	4953.1	4998.1	5034.6	5045.3
4680.8	7.5°	4700.1	4738.7	4822.3	4905.9	4998.1	5086.0	5176.1	5253.3	5315.5	5339.0
4749.4	10°	4775.1	4826.6	4944.5	5062.4	5184.7	5319.7	5435.5	5547.0	5634.9	5671.4
4830.9	12.5°	4869.5	4933.8	5088.2	5251.1	5420.5	5607.1	5757.2	5894.4	6003.7	6053.1
4944.5	15°	4991.7	5075.3	5272.6	5491.3	5740.0	5999.5	6190.3	6342.5	6464.7	6524.8
5062.4	17.5°	5124.6	5236.1	5484.8	5815.1	6171.0	6511.9	6734.9	6846.4	6972.9	7030.8
5171.8	20°	5253.3	5390.5	5746.4	6226.7	6700.6	7063.0	7243.1	7273.1	7281.7	7288.1
5274.7	22.5°	5386.2	5570.6	6074.5	6745.6	7253.8	7504.7	7530.4	7401.8	7221.6	7138.0
5375.5	25°	5532.0	5776.5	6503.3	7318.1	7729.8	7759.8	7562.6	7249.5	6908.6	6752.1
5457.0	27.5°	5673.5	6014.5	7017.9	7864.9	8072.9	7809.2	7384.6	6940.8	6529.1	6364.0
5514.9	30°	5815.1	6286.8	7586.2	8343.1	8229.4	7686.9	7103.7	6608.4	6194.6	6020.9
5566.3	32.5°	5958.7	6604.1	8240.1	8688.3	8201.5	7427.5	6754.2	6235.3	5870.8	5688.5
5611.4	35°	6121.7	6994.4	8859.8	8877.0	8015.0	7045.8	6293.2	5789.3	5472.0	5326.2
5665.0	37.5°	6333.9	7489.7	9406.6	8924.1	7689.1	6486.2	5720.7	5261.9	5000.3	4933.8
5744.3	40°	6597.7	8085.8	9824.7	8849.1	7206.6	5806.5	5094.6	4727.9	4580.0	4595.0
5851.5	42.5°	6940.8	8752.6	10118.4	8656.1	6535.5	5105.3	4545.7	4382.7	4453.5	4513.5
6012.3	45°	7386.7	9445.2	10300.7	8328.0	5776.5	4511.4	4221.9	4260.5	4314.1	4320.6
6271.8	47.5°	7957.1	10146.3	10420.8	7832.7	5002.4	4093.3	4016.1	4024.7	4013.9	3968.9
6659.9	50°	8669.0	10828.2	10528.0	7176.6	4344.1	3831.7	3728.8	3698.7	3550.8	3405.0
7176.6	52.5°	9479.5	11454.3	10573.0	6361.8	3831.7	3613.0	3445.7	3257.0	2980.4	2935.4
7826.3	55°	10380.0	12033.2	10457.2	5360.5	3400.7	3332.1	3079.1	2851.8	2821.8	2783.2
8681.8	57.5°	11456.4	12657.2	10221.4	4243.4	2959.0	3004.0	2757.4	2783.2	2729.6	2669.5
9781.8	60°	12633.6	13302.6	9807.5	3224.9	2502.3	2594.5	2673.8	2671.7	2656.7	2607.3
10941.8	62.5°	13692.8	13727.1	8992.7	2470.1	2101.3	2277.1	2493.7	2491.6	2478.7	2450.8
12153.3	65°	14323.2	13662.8	7633.3	1944.8	1771.1	2015.5	2249.3	2266.4	2268.6	2266.4
13064.6	67.5°	14211.7	12910.2	5767.9	1548.1	1498.8	1749.7	2007.0	2030.6	2047.7	2052.0
13180.4	70°	12950.9	11257.0	3760.9	1235.1	1256.5	1515.9	1777.5	1801.1	1816.1	1833.3
11437.1	72.5°	10094.9	8276.6	2152.8	999.2	1044.2	1314.4	1550.3	1578.1	1586.7	1618.9
7959.2	75°	6151.7	4867.3	1162.2	786.9	857.7	1123.6	1325.1	1357.3	1372.3	1410.9
3908.9	77.5°	2924.7	2107.7	662.6	613.2	690.4	917.7	1119.3	1155.7	1115.0	1136.4
1078.5	80°	988.5	782.6	418.1	467.4	527.5	716.2	896.3	932.7	847.0	842.7
358.1	82.5°	345.2	317.3	265.9	310.9	340.9	512.5	677.6	724.7	630.4	628.2
160.8	85°	135.1	128.7	147.9	169.4	203.7	315.2	446.0	469.6	388.1	313.1
47.2	87.5°	27.9	30.0	36.5	38.6	62.2	109.4	160.8	197.3	156.5	132.9
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>
4622.9
4796.6
5049.6
5341.2
5673.5
6053.1
6520.5
7028.7
7305.3
7161.6
6775.7
6383.3
6040.2
5712.1
5358.3
4981.0
4646.5
4569.3
4363.4
4003.2
3424.3
2950.4
2789.6
2658.8
2590.2
2440.1
2266.4
2056.3
1841.9
1631.7
1415.2
1119.3
834.1
598.2
308.8
122.2
0.0

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