

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: P943752

Luminaire Tested: **GALN-SB8B-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943752  
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-SB8B-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

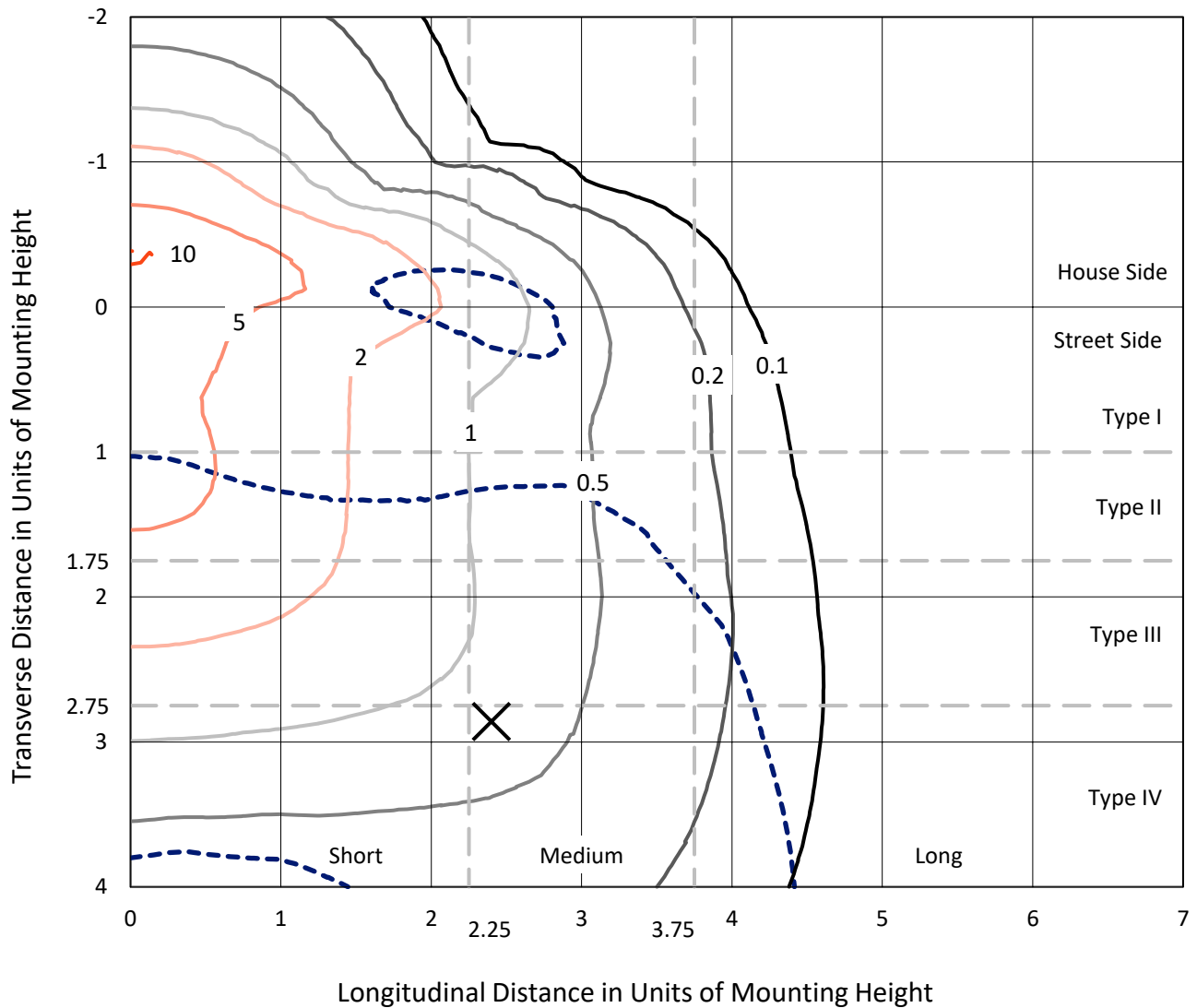
Lumens per Lamp: N/A  
Luminaire Lumens: 43173 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

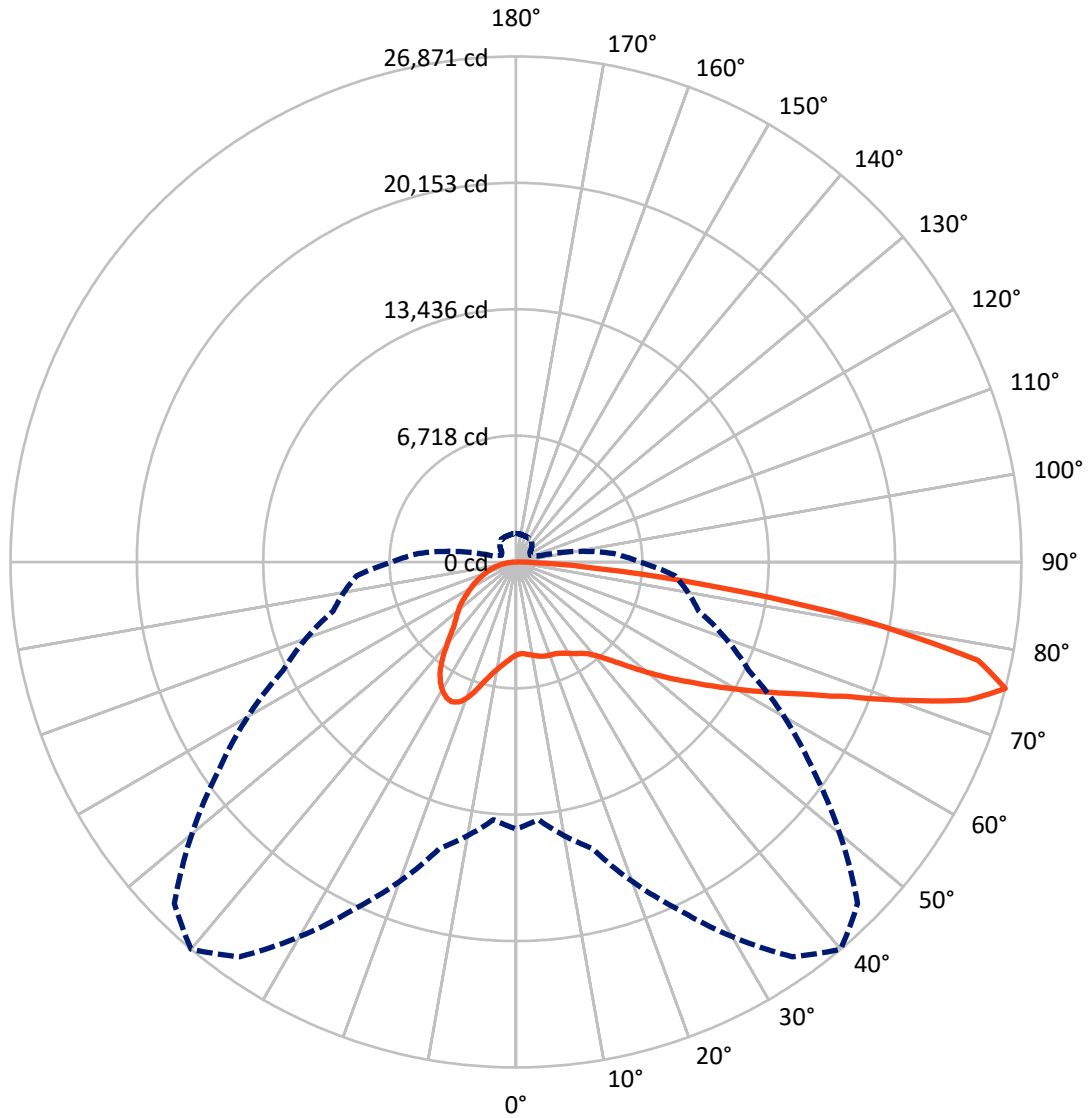
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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
<b>House Side</b>	Lumens	13376.4	0.0	13376.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	29796.6	0.0	29796.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	43173.0	0.0	43173.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.8	1.1
10°-20°	1654.5	3.8
20°-30°	3021.1	7.0
30°-40°	4284.7	9.9
40°-50°	5785.6	13.4
50°-60°	7783.2	18.0
60°-70°	9878.7	22.9
70°-80°	8965.5	20.8
80°-90°	1306.9	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°	43173.0	100.0
0°-180°	43173.0	100.0

**Coefficient of Utilization**



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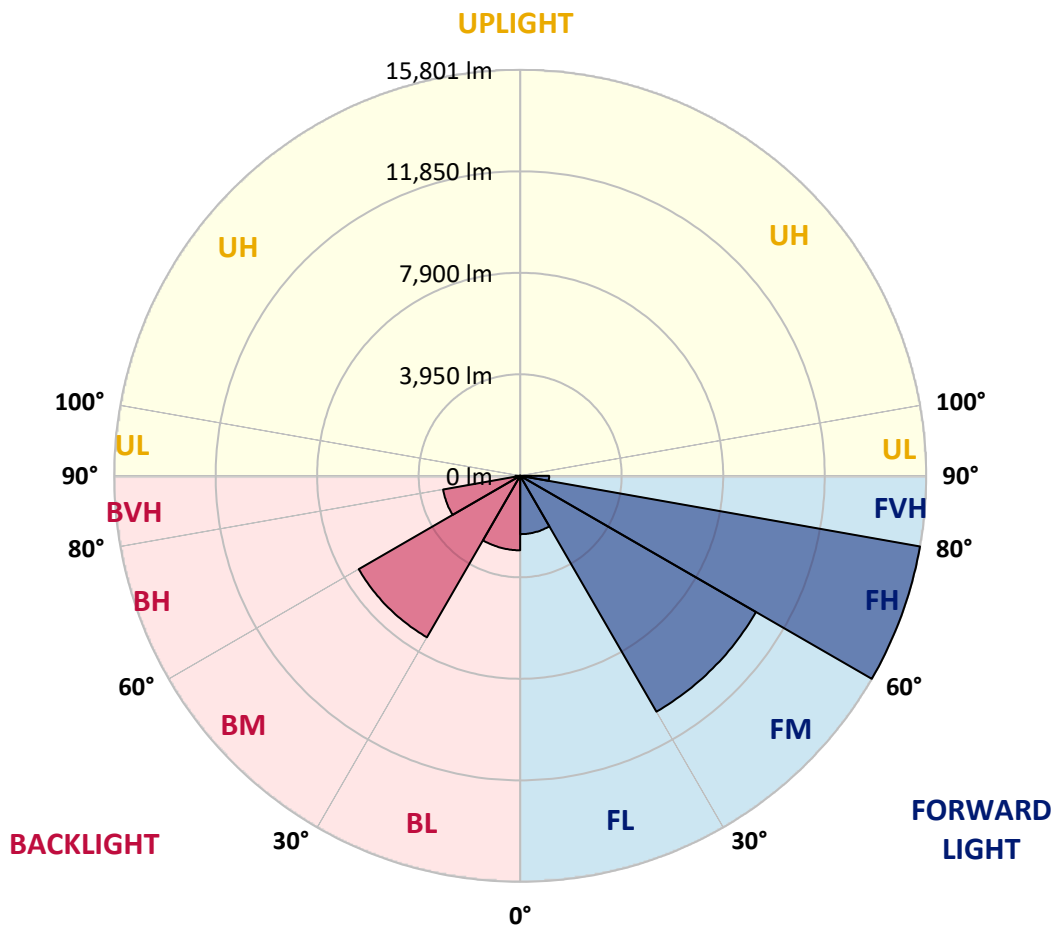
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.9	5.3			
FM (30°-60°)	10598.0	24.5			
FH (60°-80°)	15800.7	36.6			G5
FVH (80°-90°)	1127.0	2.6			G5
BL (0°-30°)	2897.5	6.7	B4/5000		
BM (30°-60°)	7255.5	16.8	B4/8500		
BH (60°-80°)	3043.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	179.9	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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4861.3	4888.8	4881.9	4872.8	4872.8	4875.1	4872.8	4888.8	4904.8	4920.9
5°	4911.7	4939.2	4925.4	4914.0	4904.8	4902.5	4895.7	4893.4	4902.5	4923.2
7.5°	5010.2	5037.6	5017.0	4996.4	4978.1	4968.9	4959.8	4946.0	4939.2	4950.6
10°	5120.1	5147.6	5122.4	5085.7	5056.0	5044.5	5035.4	5021.6	5012.5	5019.3
12.5°	5230.0	5257.5	5223.1	5172.7	5133.8	5126.9	5115.5	5110.9	5108.6	5106.3
15°	5333.0	5355.9	5312.4	5252.9	5211.7	5200.2	5188.8	5195.6	5207.1	5220.8
17.5°	5413.2	5436.1	5372.0	5294.1	5255.2	5250.6	5243.7	5266.6	5298.7	5333.0
20°	5486.5	5509.3	5426.9	5321.6	5275.8	5275.8	5278.1	5326.2	5372.0	5422.3
22.5°	5589.5	5607.8	5507.1	5362.8	5296.4	5301.0	5319.3	5367.4	5424.6	5493.3
25°	5742.9	5756.7	5633.0	5440.7	5365.1	5378.8	5394.9	5417.8	5472.7	5552.9
27.5°	5990.2	6001.7	5839.1	5578.0	5463.6	5486.5	5509.3	5493.3	5518.5	5587.2
30°	6338.3	6345.1	6139.1	5793.3	5630.7	5642.2	5646.7	5580.3	5532.2	5587.2
32.5°	6750.4	6748.2	6503.1	6054.3	5820.8	5809.3	5770.4	5639.9	5527.7	5575.8
35°	7389.3	7364.1	7048.1	6420.7	6036.0	5965.0	5873.4	5706.3	5550.6	5564.3
37.5°	8447.2	8369.4	7932.0	7020.6	6356.6	6175.7	6040.6	5813.9	5600.9	5559.7
40°	9640.2	9541.8	9060.9	7842.7	6837.5	6546.6	6329.1	5967.3	5683.4	5580.3
42.5°	11055.3	10915.7	10398.2	8811.3	7446.6	7025.2	6697.8	6162.0	5804.7	5646.7
45°	12793.3	12607.8	11875.1	9903.5	8213.6	7652.6	7215.3	6457.3	5990.2	5775.0
47.5°	14549.6	14595.4	13553.5	11153.8	9134.2	8426.6	7863.3	6901.6	6260.4	5981.1
50°	16415.8	16447.9	15222.8	12539.2	10178.3	9301.3	8591.5	7398.5	6635.9	6274.2
52.5°	17872.2	17876.8	16738.7	13988.6	11266.0	10263.1	9376.9	7966.3	7071.0	6663.4
55°	18783.5	18772.1	17801.2	15360.2	12516.3	11272.9	10247.0	8612.1	7602.3	7121.4
57.5°	19445.3	19411.0	18533.9	16539.5	13848.9	12465.9	11231.7	9344.8	8229.7	7666.4
60°	19697.2	19676.6	19030.8	17558.5	15250.3	13784.8	12367.4	10164.6	8941.8	8309.8
62.5°	19793.4	19832.3	19518.6	18545.4	16750.2	15245.7	13615.4	11144.6	9743.3	9038.0
65°	20132.3	20203.2	20139.1	19836.9	18444.6	16956.2	15270.9	12310.2	10618.0	9818.8
67.5°	20803.2	20874.2	20901.6	21382.5	20514.7	19088.1	17336.4	13761.9	11641.5	10629.4
70°	20787.1	20766.5	21252.0	22612.1	23106.8	22039.7	20120.8	15548.0	12862.0	11302.6
72.5°	18920.9	18756.1	19903.3	22598.4	25263.8	25121.8	23521.2	17851.6	13915.3	11385.1
75°	14194.7	13755.1	15781.6	20365.8	25623.3	26871.2	25682.8	19280.4	13665.8	10059.3
77.5°	6070.4	5628.4	8016.7	15076.3	22932.7	25119.5	23699.8	16821.1	10908.8	6652.0
80°	1589.1	1586.9	2422.6	6835.2	15596.1	18550.0	16273.9	10863.0	6232.9	2376.9
82.5°	657.2	641.2	890.7	2658.5	7620.6	10409.6	8495.3	4845.3	2250.9	643.4
85°	245.0	242.7	432.8	918.2	2688.3	4293.4	3107.3	1238.8	561.0	313.7
87.5°	68.7	66.4	93.9	318.3	654.9	993.8	531.2	203.8	158.0	123.7
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°
4936.9	0°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
4946.0	2.5°	4952.9	4964.4	4985.0	5001.0	5021.6	5044.5	5076.6	5097.2	5117.8	5131.5
4957.5	5°	4973.5	4998.7	5051.4	5104.0	5165.9	5223.1	5289.5	5337.6	5376.5	5388.0
4998.7	7.5°	5019.3	5060.5	5149.8	5239.1	5337.6	5431.5	5527.7	5610.1	5676.5	5701.7
5072.0	10°	5099.5	5154.4	5280.4	5406.3	5536.8	5681.1	5804.7	5923.8	6017.7	6056.6
5159.0	12.5°	5200.2	5268.9	5433.8	5607.8	5788.7	5987.9	6148.2	6294.8	6411.5	6464.2
5280.4	15°	5330.7	5420.0	5630.7	5864.3	6129.9	6407.0	6610.8	6773.3	6903.9	6968.0
5406.3	17.5°	5472.7	5591.8	5857.4	6210.0	6590.2	6954.2	7192.4	7311.5	7446.6	7508.4
5523.1	20°	5610.1	5756.7	6136.8	6649.7	7155.7	7542.7	7735.1	7767.1	7776.3	7783.2
5633.0	22.5°	5752.1	5949.0	6487.1	7203.8	7746.5	8014.4	8041.9	7904.5	7712.2	7622.9
5740.6	25°	5907.8	6168.8	6945.1	7815.2	8254.9	8286.9	8076.3	7741.9	7377.9	7210.7
5827.6	27.5°	6058.9	6423.0	7494.6	8399.1	8621.2	8339.6	7886.2	7412.2	6972.6	6796.2
5889.5	30°	6210.0	6713.8	8101.4	8909.8	8788.4	8209.1	7586.2	7057.3	6615.3	6429.9
5944.4	32.5°	6363.5	7052.7	8799.8	9278.4	8758.6	7932.0	7213.0	6658.8	6269.6	6074.9
5992.5	35°	6537.5	7469.5	9461.6	9479.9	8559.4	7524.4	6720.7	6182.6	5843.7	5688.0
6049.8	37.5°	6764.2	7998.4	10045.5	9530.3	8211.4	6926.8	6109.3	5619.3	5339.9	5268.9
6134.5	40°	7045.8	8635.0	10492.0	9450.2	7696.1	6200.9	5440.7	5049.1	4891.1	4907.1
6249.0	42.5°	7412.2	9347.1	10805.7	9244.1	6979.4	5452.1	4854.5	4680.4	4756.0	4820.1
6420.7	45°	7888.5	10086.7	11000.4	8893.7	6168.8	4817.8	4508.7	4549.9	4607.2	4614.0
6697.8	47.5°	8497.6	10835.5	11128.6	8364.8	5342.2	4371.3	4288.9	4298.0	4286.6	4238.5
7112.2	50°	9257.8	11563.7	11243.1	7664.1	4639.2	4091.9	3982.0	3950.0	3792.0	3636.3
7664.1	52.5°	10123.4	12232.3	11291.2	6793.9	4091.9	3858.4	3679.8	3478.3	3182.9	3134.8
8357.9	55°	11085.1	12850.6	11167.5	5724.6	3631.7	3558.4	3288.2	3045.5	3013.4	2972.2
9271.6	57.5°	12234.6	13516.9	10915.7	4531.6	3160.0	3208.1	2944.7	2972.2	2915.0	2850.8
10446.2	60°	13491.7	14206.2	10473.7	3443.9	2672.2	2770.7	2855.4	2853.1	2837.1	2784.4
11685.0	62.5°	14622.9	14659.5	9603.6	2637.9	2244.0	2431.8	2663.1	2660.8	2647.1	2617.3
12978.8	65°	15296.1	14590.8	8151.8	2076.9	1891.4	2152.4	2402.0	2420.4	2422.6	2420.4
13952.0	67.5°	15177.0	13787.1	6159.7	1653.3	1600.6	1868.5	2143.3	2168.5	2186.8	2191.4
14075.6	70°	13830.6	12021.6	4016.4	1318.9	1341.8	1618.9	1898.3	1923.5	1939.5	1957.8
12214.0	72.5°	10780.6	8838.8	2299.0	1067.1	1115.2	1403.7	1655.6	1685.3	1694.5	1728.8
8499.9	75°	6569.5	5197.9	1241.1	840.4	915.9	1199.9	1415.1	1449.5	1465.5	1506.7
4174.4	77.5°	3123.3	2250.9	707.6	654.9	737.3	980.1	1195.3	1234.2	1190.7	1213.6
1151.8	80°	1055.6	835.8	446.5	499.2	563.3	764.8	957.2	996.1	904.5	899.9
382.4	82.5°	368.7	338.9	283.9	332.0	364.1	547.3	723.6	774.0	673.2	670.9
171.7	85°	144.3	137.4	158.0	180.9	217.5	336.6	476.3	501.5	414.5	334.3
50.4	87.5°	29.8	32.1	38.9	41.2	66.4	116.8	171.7	210.7	167.2	142.0
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>
4936.9
5122.4
5392.6
5704.0
6058.9
6464.2
6963.4
7506.1
7801.5
7648.1
7235.9
6816.8
6450.5
6100.1
5722.3
5319.3
4962.1
4879.6
4659.8
4275.1
3656.9
3150.8
2979.1
2839.4
2766.1
2605.8
2420.4
2196.0
1967.0
1742.6
<i>1511.3</i>
1195.3
890.7
638.9
329.7
130.5
0.0

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