

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: P944392

Luminaire Tested: **GALN-SB9B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944392
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 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: 44210 lumens
Efficiency: N/A
Efficacy: 134.2 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

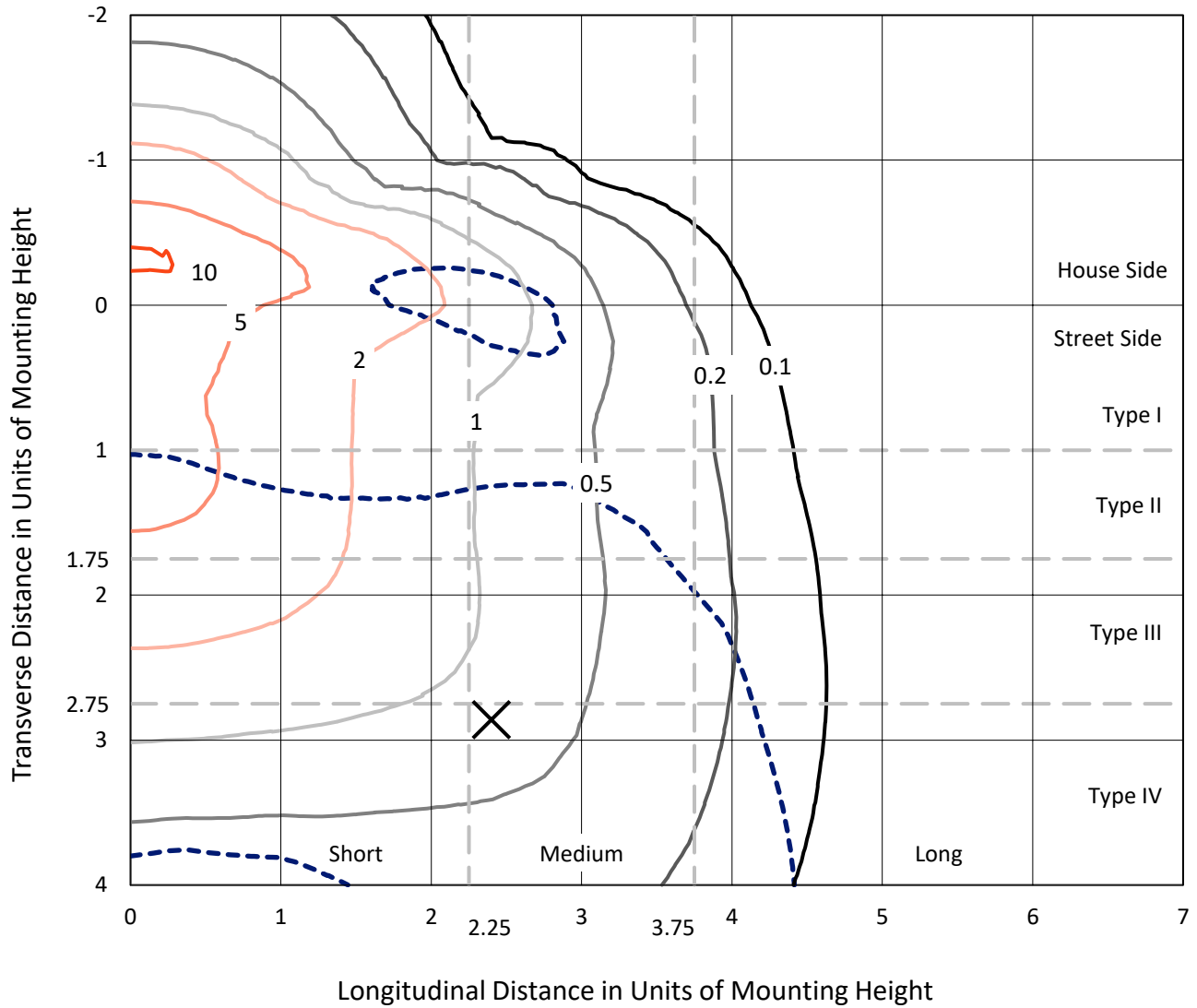
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

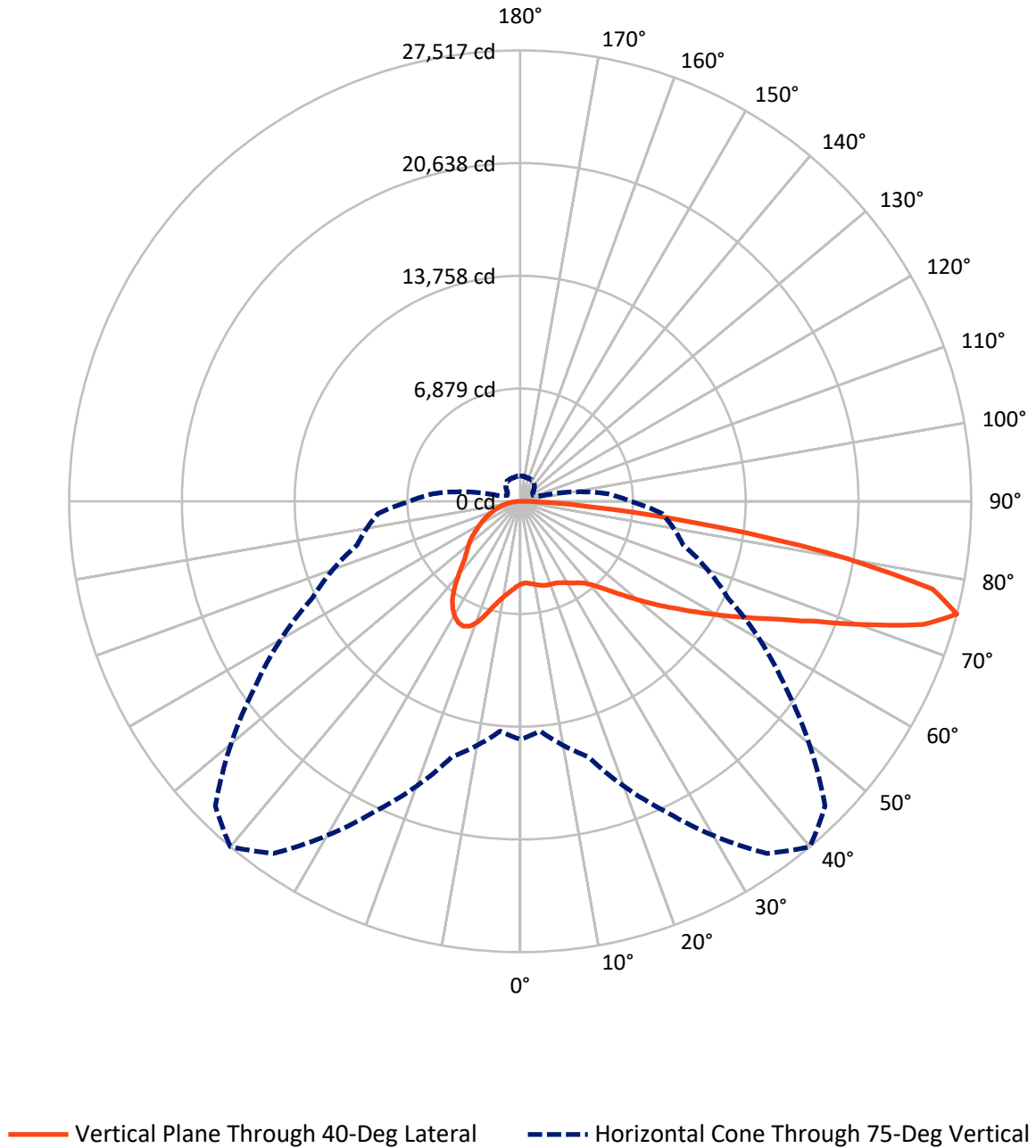
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13697.7	0.0	13697.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	30512.3	0.0	30512.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	44210.0	0.0	44210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.6	1.1
10°-20°	1694.3	3.8
20°-30°	3093.6	7.0
30°-40°	4387.6	9.9
40°-50°	5924.6	13.4
50°-60°	7970.2	18.0
60°-70°	10116.0	22.9
70°-80°	9180.9	20.8
80°-90°	1338.3	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°	44210.0	100.0
0°-180°	44210.0	100.0

Coefficient of Utilization



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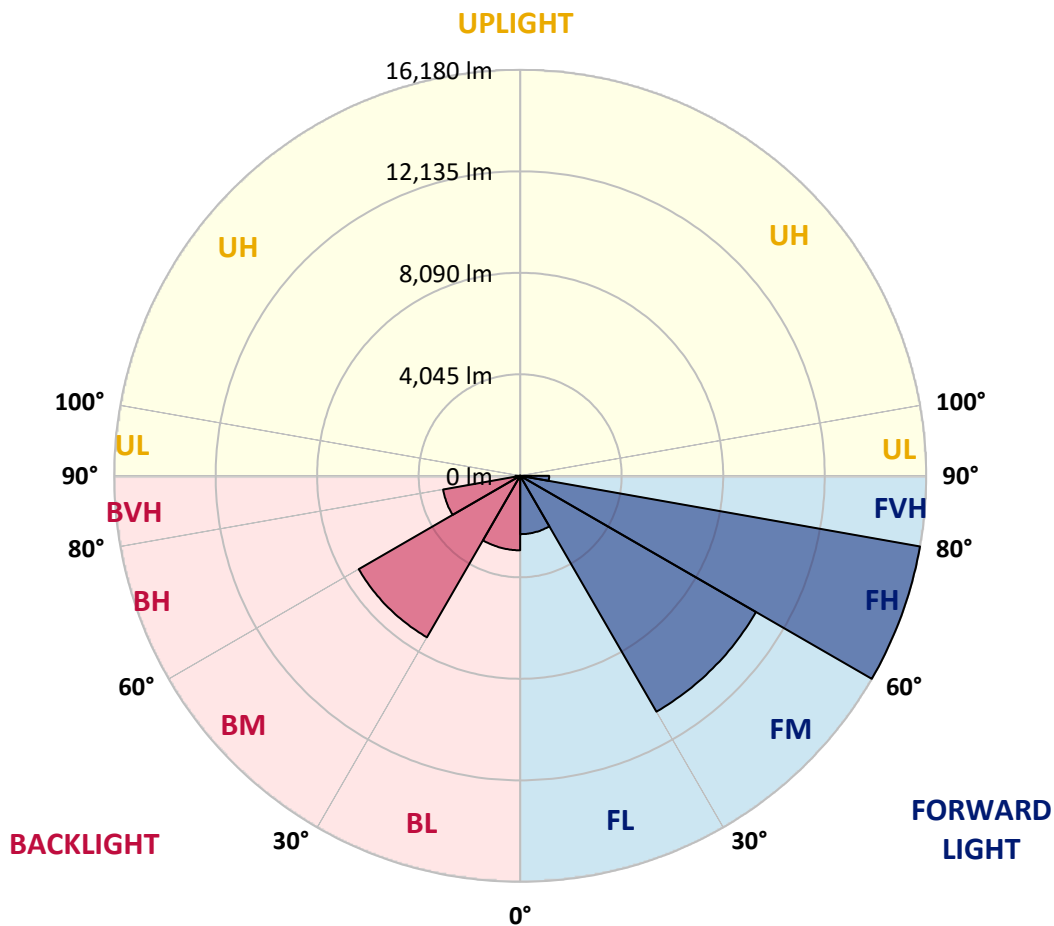
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2325.5	5.3			
FM (30°-60°)	10852.6	24.5			
FH (60°-80°)	16180.2	36.6			G5
FVH (80°-90°)	1154.0	2.6			G5
BL (0°-30°)	2967.1	6.7	B4/5000		
BM (30°-60°)	7429.8	16.8	B4/8500		
BH (60°-80°)	3116.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	184.3	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°	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5
2.5°	4978.1	5006.2	4999.2	4989.8	4989.8	4992.2	4989.8	5006.2	5022.6	5039.1
5°	5029.7	5057.8	5043.7	5032.0	5022.6	5020.3	5013.3	5010.9	5020.3	5041.4
7.5°	5130.5	5158.6	5137.5	5116.4	5097.7	5088.3	5078.9	5064.9	5057.8	5069.5
10°	5243.1	5271.2	5245.4	5207.9	5177.4	5165.7	5156.3	5142.2	5132.9	5139.9
12.5°	5355.6	5383.7	5348.6	5297.0	5257.1	5250.1	5238.4	5233.7	5231.3	5229.0
15°	5461.1	5484.6	5440.0	5379.1	5336.9	5325.1	5313.4	5320.4	5332.2	5346.2
17.5°	5543.2	5566.6	5501.0	5421.3	5381.4	5376.7	5369.7	5393.1	5426.0	5461.1
20°	5618.2	5641.7	5557.3	5449.4	5402.5	5402.5	5404.9	5454.1	5501.0	5552.6
22.5°	5723.8	5742.5	5639.3	5491.6	5423.6	5428.3	5447.1	5496.3	5554.9	5625.3
25°	5880.9	5894.9	5768.3	5571.3	5494.0	5508.0	5524.4	5547.9	5604.2	5686.2
27.5°	6134.1	6145.8	5979.3	5712.0	5594.8	5618.2	5641.7	5625.3	5651.1	5721.4
30°	6490.5	6497.5	6286.5	5932.4	5766.0	5777.7	5782.4	5714.4	5665.1	5721.4
32.5°	6912.6	6910.2	6659.3	6199.8	5960.6	5948.9	5909.0	5775.3	5660.4	5709.7
35°	7566.8	7541.0	7217.4	6574.9	6181.0	6108.3	6014.5	5843.3	5683.9	5698.0
37.5°	8650.1	8570.4	8122.5	7189.3	6509.3	6324.0	6185.7	5953.5	5735.5	5693.3
40°	9871.8	9770.9	9278.5	8031.1	7001.7	6703.9	6481.1	6110.6	5819.9	5714.4
42.5°	11320.9	11177.8	10647.9	9022.9	7625.4	7194.0	6858.7	6310.0	5944.2	5782.4
45°	13100.6	12910.7	12160.3	10141.4	8410.9	7836.5	7388.6	6612.4	6134.1	5913.7
47.5°	14899.1	14946.0	13879.1	11421.7	9353.6	8629.0	8052.2	7067.3	6410.8	6124.7
50°	16810.1	16843.0	15588.5	12840.3	10422.8	9524.7	8797.8	7576.2	6795.3	6424.9
52.5°	18301.5	18306.2	17140.8	14324.6	11536.6	10509.6	9602.1	8157.7	7240.9	6823.5
55°	19234.7	19223.0	18228.8	15729.2	12816.9	11543.6	10493.2	8818.9	7784.9	7292.4
57.5°	19912.4	19877.2	18979.1	16936.8	14181.6	12765.3	11501.4	9569.3	8427.4	7850.5
60°	20170.3	20149.2	19488.0	17980.2	15616.6	14115.9	12664.5	10408.7	9156.6	8509.4
62.5°	20268.8	20308.6	19987.4	18990.8	17152.5	15611.9	13942.4	11412.3	9977.3	9255.1
65°	20615.8	20688.5	20622.9	20313.3	18887.7	17363.5	15637.7	12605.9	10873.0	10054.7
67.5°	21302.9	21375.6	21403.7	21896.1	21007.4	19546.6	17752.8	14092.5	11921.2	10884.7
70°	21286.4	21265.3	21762.4	23155.3	23661.8	22569.1	20604.1	15921.5	13171.0	11574.1
72.5°	19375.4	19206.6	20381.3	23141.2	25870.6	25725.2	24086.2	18280.4	14249.6	11658.5
75°	14535.7	14085.4	16160.6	20855.0	26238.7	27516.7	26299.7	19743.5	13994.0	10300.9
77.5°	6216.2	5763.6	8209.3	15438.4	23483.6	25722.9	24269.1	17225.2	11170.8	6811.8
80°	1627.3	1625.0	2480.8	6999.3	15970.7	18995.5	16664.8	11123.9	6382.7	2433.9
82.5°	673.0	656.6	912.1	2722.4	7803.6	10659.6	8699.4	4961.7	2305.0	658.9
85°	250.9	248.6	443.2	940.3	2752.8	4396.6	3181.9	1268.6	574.5	321.2
87.5°	70.3	68.0	96.1	325.9	670.6	1017.7	544.0	208.7	161.8	126.6
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°
5055.5	0°	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5	5055.5
5064.9	2.5°	5071.9	5083.6	5104.7	5121.1	5142.2	5165.7	5198.5	5219.6	5240.7	5254.8
5076.6	5°	5093.0	5118.8	5172.7	5226.6	5290.0	5348.6	5416.6	5465.8	5505.7	5517.4
5118.8	7.5°	5139.9	5182.1	5273.5	5365.0	5465.8	5562.0	5660.4	5744.9	5812.9	5838.6
5193.8	10°	5222.0	5278.2	5407.2	5536.2	5669.8	5817.5	5944.2	6066.1	6162.2	6202.1
5282.9	12.5°	5325.1	5395.5	5564.3	5742.5	5927.8	6131.8	6295.9	6446.0	6565.5	6619.5
5407.2	15°	5458.8	5550.2	5766.0	6005.1	6277.1	6560.9	6769.5	6936.0	7069.7	7135.3
5536.2	17.5°	5604.2	5726.1	5998.1	6359.2	6748.4	7121.3	7365.1	7487.1	7625.4	7688.7
5655.8	20°	5744.9	5894.9	6284.2	6809.4	7327.6	7723.9	7920.9	7953.7	7963.1	7970.1
5768.3	22.5°	5890.2	6091.9	6642.9	7376.9	7932.6	8206.9	8235.1	8094.4	7897.4	7806.0
5878.5	25°	6049.7	6317.0	7111.9	8002.9	8453.1	8486.0	8270.2	7927.9	7555.1	7383.9
5967.6	27.5°	6204.4	6577.3	7674.7	8600.9	8828.3	8539.9	8075.6	7590.2	7140.0	6959.5
6030.9	30°	6359.2	6875.1	8296.0	9123.8	8999.5	8406.2	7768.5	7226.8	6774.2	6584.3
6087.2	32.5°	6516.3	7222.1	9011.2	9501.3	8969.0	8122.5	7386.2	6818.8	6420.2	6220.9
6136.4	35°	6694.5	7648.9	9688.9	9707.6	8765.0	7705.1	6882.1	6331.1	5984.0	5824.6
6195.1	37.5°	6926.7	8190.5	10286.8	9759.2	8408.6	7093.1	6256.0	5754.2	5468.2	5395.5
6281.8	40°	7215.1	8842.4	10744.1	9677.1	7881.0	6349.8	5571.3	5170.4	5008.6	5025.0
6399.1	42.5°	7590.2	9571.6	11065.3	9466.1	7147.1	5583.1	4971.1	4792.9	4870.2	4935.9
6574.9	45°	8078.0	10329.0	11264.6	9107.4	6317.0	4933.5	4617.0	4659.2	4717.8	4724.9
6858.7	47.5°	8701.7	11095.8	11395.9	8565.7	5470.5	4476.3	4391.9	4401.3	4389.5	4340.3
7283.1	50°	9480.2	11841.4	11513.2	7848.2	4750.6	4190.2	4077.7	4044.8	3883.1	3723.6
7848.2	52.5°	10366.5	12526.1	11562.4	6957.1	4190.2	3951.1	3768.2	3561.8	3259.3	3210.1
8558.7	55°	11351.4	13159.2	11435.8	5862.1	3718.9	3643.9	3367.2	3118.6	3085.8	3043.6
9494.3	57.5°	12528.5	13841.6	11177.8	4640.4	3235.9	3285.1	3015.5	3043.6	2985.0	2919.3
10697.2	60°	13815.8	14547.4	10725.3	3526.6	2736.4	2837.3	2924.0	2921.7	2905.3	2851.3
11965.7	62.5°	14974.1	15011.7	9834.3	2701.3	2297.9	2490.2	2727.0	2724.7	2710.6	2680.2
13290.5	65°	15663.5	14941.3	8347.6	2126.8	1936.8	2204.1	2459.7	2478.5	2480.8	2478.5
14287.1	67.5°	15541.6	14118.3	6307.6	1693.0	1639.0	1913.4	2194.8	2220.6	2239.3	2244.0
14413.7	70°	14162.8	12310.4	4112.8	1350.6	1374.1	1657.8	1943.9	1969.7	1986.1	2004.8
12507.4	72.5°	11039.5	9051.1	2354.2	1092.7	1141.9	1437.4	1695.3	1725.8	1735.2	1770.4
8704.0	75°	6727.3	5322.8	1270.9	860.6	937.9	1228.7	1449.1	1484.3	1500.7	1542.9
4274.6	77.5°	3198.4	2305.0	724.6	670.6	755.0	1003.6	1224.0	1263.9	1219.3	1242.8
1179.5	80°	1081.0	855.9	457.2	511.2	576.8	783.2	980.1	1020.0	926.2	921.5
391.6	82.5°	377.5	347.0	290.8	340.0	372.8	560.4	741.0	792.6	689.4	687.0
175.9	85°	147.7	140.7	161.8	185.2	222.8	344.7	487.7	513.5	424.4	342.3
51.6	87.5°	30.5	32.8	39.9	42.2	68.0	119.6	175.9	215.7	171.2	145.4
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>
5055.5
5245.4
5522.1
5841.0
6204.4
6619.5
7130.7
7686.4
7988.9
7831.8
7409.7
6980.6
6605.4
6246.7
5859.8
5447.1
5081.3
4996.9
4771.7
4377.8
3744.7
3226.5
3050.6
2907.6
2832.6
2668.4
2478.5
2248.7
2014.2
1784.4
1547.6
1224.0
912.1
654.2
337.7
133.7
0.0

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