

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: P942522

Luminaire Tested: **GALN-SB6C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942522
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-SB6C-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39146 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

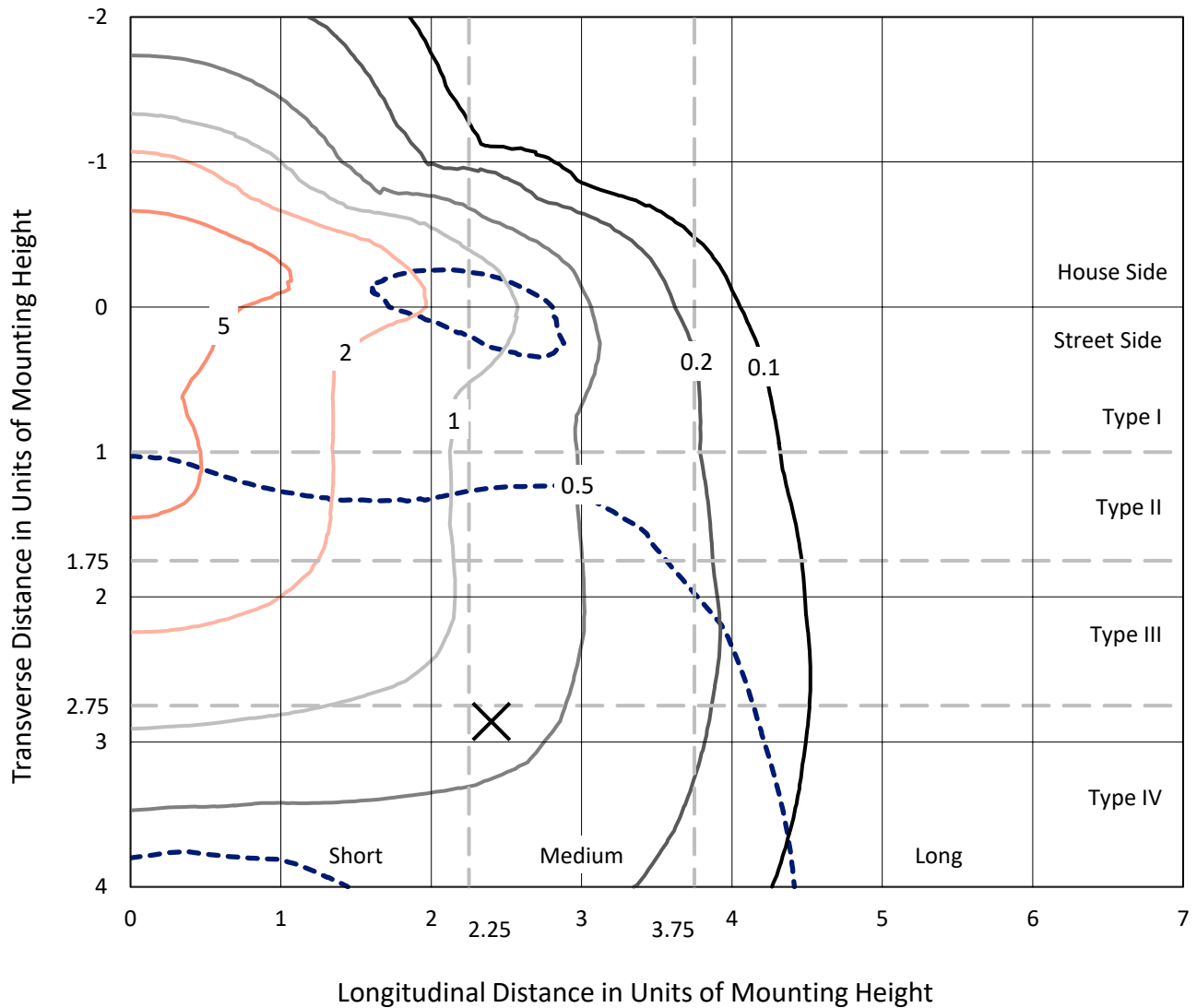
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

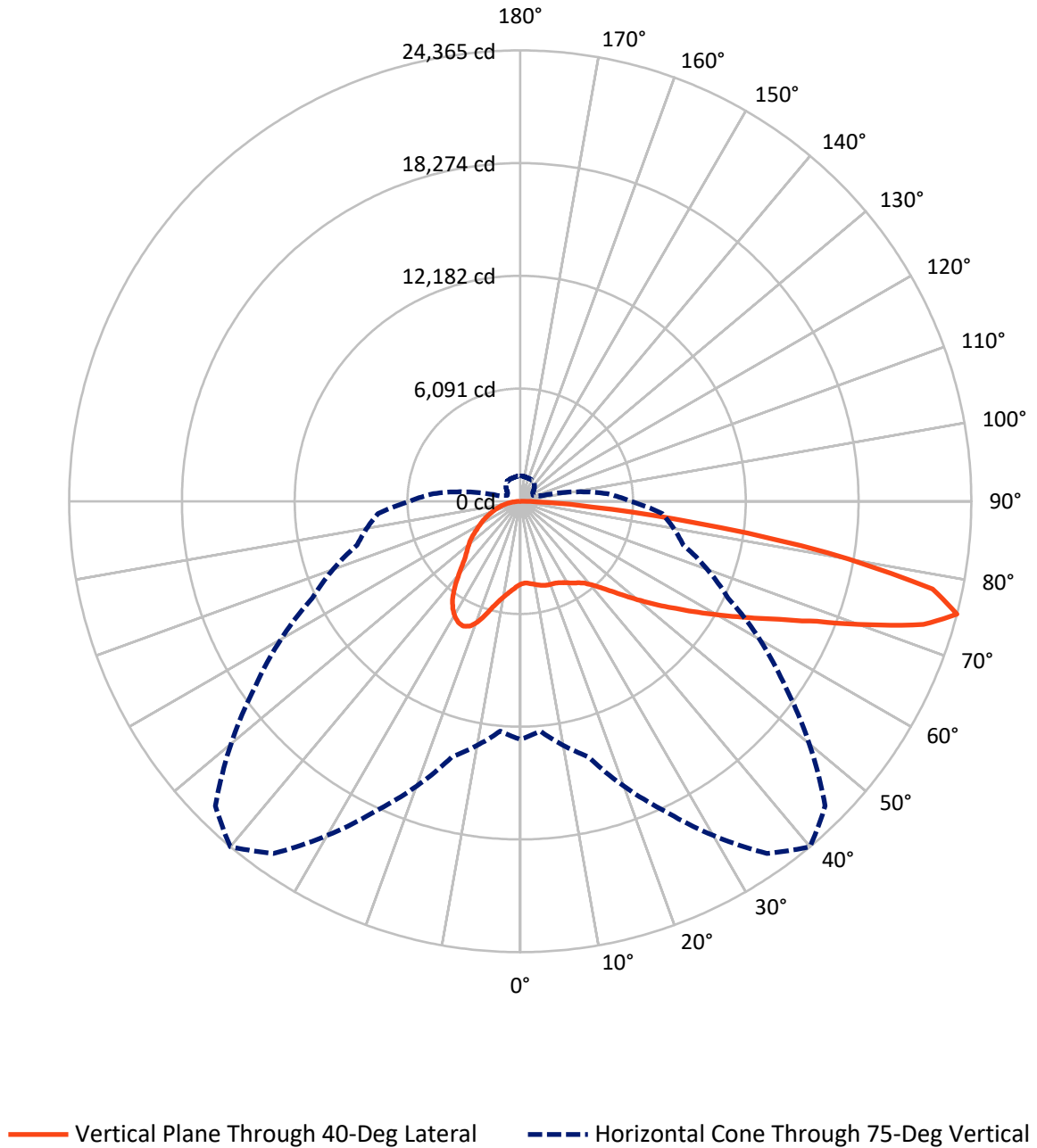
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	12128.7	0.0	12128.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27017.3	0.0	27017.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	39146.0	0.0	39146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	1.1
10°-20°	1500.2	3.8
20°-30°	2739.3	7.0
30°-40°	3885.0	9.9
40°-50°	5246.0	13.4
50°-60°	7057.2	18.0
60°-70°	8957.2	22.9
70°-80°	8129.2	20.8
80°-90°	1185.0	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°	39146.0	100.0
0°-180°	39146.0	100.0

Coefficient of Utilization



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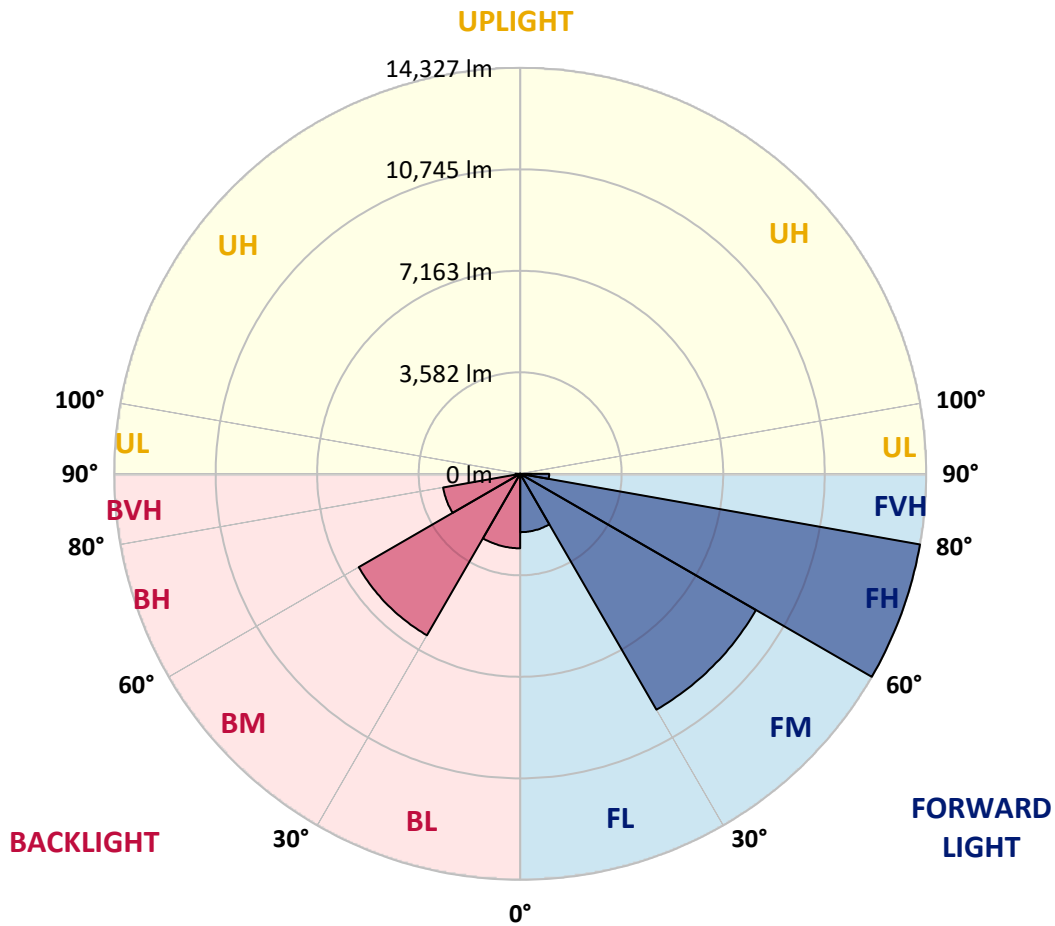
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2059.1	5.3			
FM (30°-60°)	9609.5	24.5			
FH (60°-80°)	14326.8	36.6			G5
FVH (80°-90°)	1021.8	2.6			G5
BL (0°-30°)	2627.2	6.7	B4/5000		
BM (30°-60°)	6578.7	16.8	B4/8500		
BH (60°-80°)	2759.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	163.1	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°	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4
2.5°	4407.9	4432.8	4426.6	4418.3	4418.3	4420.3	4418.3	4432.8	4447.3	4461.9
5°	4453.6	4478.5	4466.0	4455.6	4447.3	4445.3	4439.0	4436.9	4445.3	4463.9
7.5°	4542.8	4567.8	4549.1	4530.4	4513.8	4505.5	4497.2	4484.7	4478.5	4488.9
10°	4642.5	4667.4	4644.6	4611.4	4584.4	4574.0	4565.7	4553.2	4544.9	4551.1
12.5°	4742.2	4767.1	4735.9	4690.3	4655.0	4648.7	4638.3	4634.2	4632.1	4630.0
15°	4835.6	4856.4	4816.9	4762.9	4725.5	4715.2	4704.8	4711.0	4721.4	4733.9
17.5°	4908.3	4929.0	4870.9	4800.3	4765.0	4760.8	4754.6	4775.4	4804.4	4835.6
20°	4974.7	4995.5	4920.7	4825.2	4783.7	4783.7	4785.8	4829.4	4870.9	4916.6
22.5°	5068.1	5084.7	4993.4	4862.6	4802.4	4806.5	4823.1	4866.7	4918.6	4980.9
25°	5207.2	5219.7	5107.6	4933.2	4864.7	4877.1	4891.6	4912.4	4962.2	5034.9
27.5°	5431.5	5441.9	5294.4	5057.7	4953.9	4974.7	4995.5	4980.9	5003.8	5066.1
30°	5747.1	5753.3	5566.4	5252.9	5105.5	5115.9	5120.0	5059.8	5016.2	5066.1
32.5°	6120.8	6118.7	5896.6	5489.6	5277.8	5267.4	5232.2	5113.8	5012.1	5055.7
35°	6700.1	6677.2	6390.7	5821.8	5473.0	5408.6	5325.6	5174.0	5032.8	5045.3
37.5°	7659.3	7588.7	7192.1	6365.8	5763.7	5599.6	5477.2	5271.6	5078.5	5041.1
40°	8741.0	8651.7	8215.7	7111.2	6199.7	5936.0	5738.8	5410.7	5153.3	5059.8
42.5°	10024.1	9897.5	9428.3	7989.4	6752.0	6369.9	6073.0	5587.2	5263.3	5120.0
45°	11600.0	11431.8	10767.4	8979.8	7447.5	6938.8	6542.3	5855.0	5431.5	5236.3
47.5°	13192.5	13234.0	12289.3	10113.4	8282.2	7640.6	7129.8	6257.8	5676.5	5423.2
50°	14884.6	14913.7	13802.9	11369.6	9228.9	8433.7	7790.1	6708.4	6017.0	5688.9
52.5°	16205.1	16209.3	15177.4	12683.8	10215.2	9305.8	8502.2	7223.3	6411.5	6041.9
55°	17031.5	17021.1	16140.8	13927.5	11348.8	10221.4	9291.2	7808.8	6893.2	6457.1
57.5°	17631.5	17600.4	16805.2	14996.8	12557.2	11303.1	10184.0	8473.2	7462.0	6951.3
60°	17859.9	17841.2	17255.7	15920.7	13827.8	12499.0	11213.8	9216.5	8107.8	7534.7
62.5°	17947.1	17982.4	17698.0	16815.6	15187.8	13823.7	12345.4	10105.1	8834.4	8195.0
65°	18254.4	18318.8	18260.6	17986.6	16724.2	15374.6	13846.5	11161.9	9627.6	8903.0
67.5°	18862.7	18927.1	18952.0	19388.0	18601.1	17307.6	15719.3	12478.3	10555.7	9638.0
70°	18848.2	18829.5	19269.7	20503.0	20951.4	19983.9	18244.0	14097.7	11662.3	10248.4
72.5°	17156.1	17006.6	18046.8	20490.5	22907.3	22778.6	21327.3	16186.5	12617.4	10323.1
75°	12870.7	12472.0	14309.5	18466.2	23233.2	24364.8	23287.2	17482.0	12391.1	9121.0
77.5°	5504.1	5103.4	7269.0	13670.0	20793.7	22776.5	21489.2	15252.1	9891.3	6031.5
80°	1440.9	1438.8	2196.7	6197.6	14141.3	16819.7	14755.9	9849.7	5651.6	2155.1
82.5°	595.9	581.4	807.7	2410.5	6909.8	9438.6	7702.9	4393.3	2041.0	583.4
85°	222.2	220.1	392.4	832.6	2437.5	3893.0	2817.5	1123.3	508.7	284.4
87.5°	62.3	60.2	85.1	288.6	593.8	901.1	481.7	184.8	143.3	112.1
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°
4476.4	0°	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4	4476.4
4484.7	2.5°	4490.9	4501.3	4520.0	4534.5	4553.2	4574.0	4603.0	4621.7	4640.4	4652.9
4495.1	5°	4509.6	4532.5	4580.2	4628.0	4684.0	4735.9	4796.1	4839.7	4875.0	4885.4
4532.5	7.5°	4551.1	4588.5	4669.5	4750.5	4839.7	4924.9	5012.1	5086.8	5147.0	5169.9
4598.9	10°	4623.8	4673.6	4787.8	4902.0	5020.4	5151.2	5263.3	5371.3	5456.4	5491.7
4677.8	12.5°	4715.2	4777.5	4926.9	5084.7	5248.8	5429.4	5574.7	5707.6	5813.5	5861.3
4787.8	15°	4833.5	4914.5	5105.5	5317.3	5558.1	5809.4	5994.1	6141.6	6259.9	6318.0
4902.0	17.5°	4962.2	5070.2	5311.1	5630.8	5975.5	6305.6	6521.5	6629.5	6752.0	6808.0
5007.9	20°	5086.8	5219.7	5564.4	6029.4	6488.3	6839.2	7013.6	7042.6	7050.9	7057.2
5107.6	22.5°	5215.5	5394.1	5882.0	6531.9	7024.0	7266.9	7291.8	7167.2	6992.8	6911.8
5205.2	25°	5356.7	5593.4	6297.3	7086.2	7484.9	7514.0	7322.9	7019.8	6689.7	6538.1
5284.1	27.5°	5493.8	5823.9	6795.6	7615.7	7817.1	7561.7	7150.6	6720.8	6322.2	6162.3
5340.1	30°	5630.8	6087.6	7345.8	8078.7	7968.7	7443.4	6878.6	6399.0	5998.3	5830.1
5389.9	32.5°	5769.9	6394.9	7979.0	8413.0	7941.7	7192.1	6540.2	6037.7	5684.8	5508.3
5433.5	35°	5927.7	6772.7	8579.1	8595.7	7761.0	6822.6	6093.8	5605.9	5298.6	5157.4
5485.5	37.5°	6133.2	7252.3	9108.5	8641.4	7445.4	6280.7	5539.4	5095.1	4841.8	4777.5
5562.3	40°	6388.6	7829.5	9513.4	8568.7	6978.3	5622.5	4933.2	4578.1	4434.9	4449.4
5666.1	42.5°	6720.8	8475.3	9797.8	8381.8	6328.4	4943.6	4401.7	4243.9	4312.4	4370.5
5821.8	45°	7152.7	9145.9	9974.3	8064.2	5593.4	4368.4	4088.1	4125.5	4177.4	4183.6
6073.0	47.5°	7705.0	9824.8	10090.6	7584.5	4843.9	3963.6	3888.8	3897.1	3886.7	3843.1
6448.8	50°	8394.3	10485.1	10194.4	6949.2	4206.5	3710.3	3610.6	3581.5	3438.3	3297.1
6949.2	52.5°	9179.1	11091.3	10238.0	6160.2	3710.3	3498.5	3336.5	3153.8	2886.0	2842.4
7578.3	55°	10051.1	11651.9	10125.9	5190.6	3292.9	3226.5	2981.5	2761.4	2732.3	2695.0
8406.7	57.5°	11093.4	12256.1	9897.5	4108.9	2865.2	2908.8	2670.1	2695.0	2643.1	2584.9
9471.9	60°	12233.3	12881.1	9496.8	3122.7	2423.0	2512.3	2589.1	2587.0	2572.5	2524.7
10595.1	62.5°	13258.9	13292.2	8707.8	2391.8	2034.7	2205.0	2414.7	2412.6	2400.1	2373.2
11768.2	65°	13869.4	13229.9	7391.5	1883.2	1715.0	1951.7	2178.0	2194.6	2196.7	2194.6
12650.6	67.5°	13761.4	12501.1	5585.1	1499.1	1451.3	1694.2	1943.4	1966.2	1982.8	1987.0
12762.7	70°	12540.6	10900.3	3641.7	1195.9	1216.7	1467.9	1721.2	1744.1	1758.6	1775.2
11074.7	72.5°	9775.0	8014.3	2084.6	967.5	1011.1	1272.7	1501.1	1528.1	1536.4	1567.6
7707.0	75°	5956.8	4713.1	1125.3	762.0	830.5	1088.0	1283.1	1314.3	1328.8	1366.2
3785.0	77.5°	2832.0	2041.0	641.6	593.8	668.6	888.6	1083.8	1119.1	1079.7	1100.4
1044.4	80°	957.2	757.8	404.9	452.6	510.8	693.5	867.9	903.2	820.1	816.0
346.7	82.5°	334.3	307.3	257.5	301.1	330.1	496.2	656.1	701.8	610.4	608.3
155.7	85°	130.8	124.6	143.3	164.0	197.2	305.2	431.9	454.7	375.8	303.1
45.7	87.5°	27.0	29.1	35.3	37.4	60.2	105.9	155.7	191.0	151.6	128.7
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>
4476.4
4644.6
4889.6
5171.9
5493.8
5861.3
6313.9
6806.0
7073.8
6934.7
6561.0
6181.0
5848.8
5531.1
5188.6
4823.1
4499.2
4424.5
4225.2
3876.4
3315.8
2856.9
2701.2
2574.6
2508.1
2362.8
2194.6
1991.1
1783.5
1580.0
1370.3
1083.8
807.7
579.3
299.0
118.3
0.0

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