

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: P943072

Luminaire Tested: **GALN-SB7B-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943072
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-SB7B-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 37970 lumens
Efficiency: N/A
Efficacy: 147.9 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

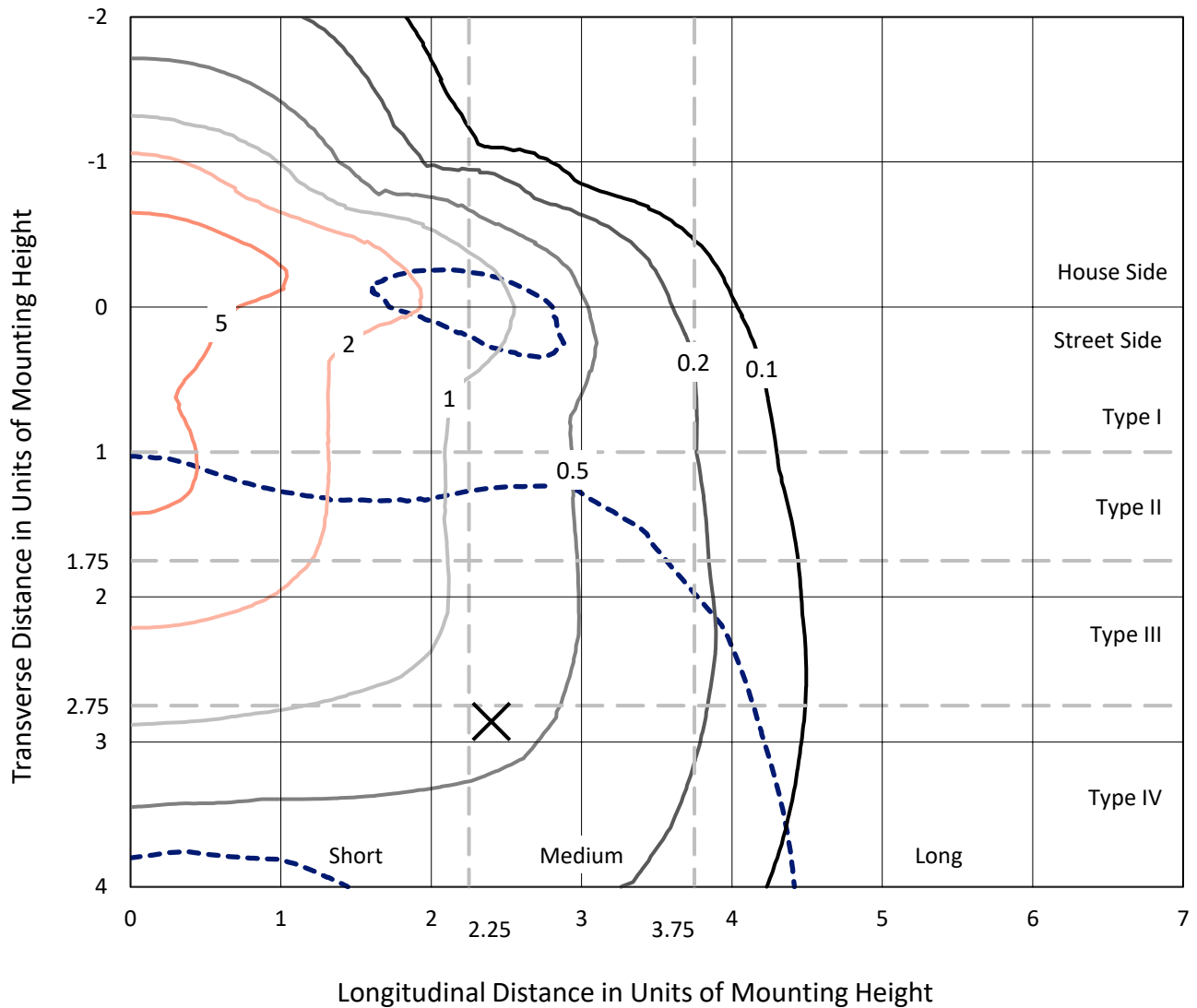
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

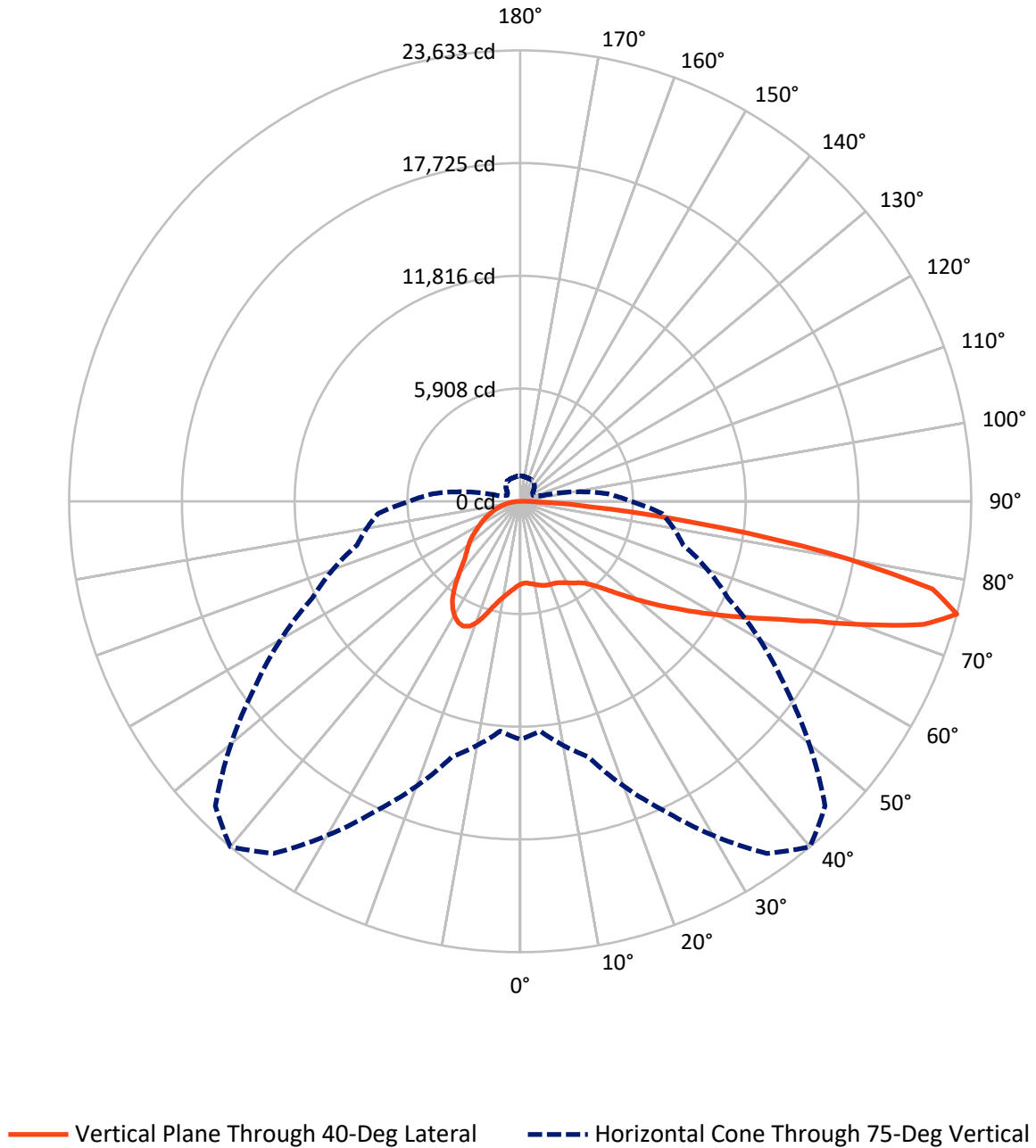
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	11764.4	0.0	11764.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	26205.6	0.0	26205.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	37970.0	0.0	37970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	1.1
10°-20°	1455.1	3.8
20°-30°	2657.0	7.0
30°-40°	3768.3	9.9
40°-50°	5088.4	13.4
50°-60°	6845.2	18.0
60°-70°	8688.2	22.9
70°-80°	7885.0	20.8
80°-90°	1149.4	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°	37970.0	100.0
0°-180°	37970.0	100.0

Coefficient of Utilization



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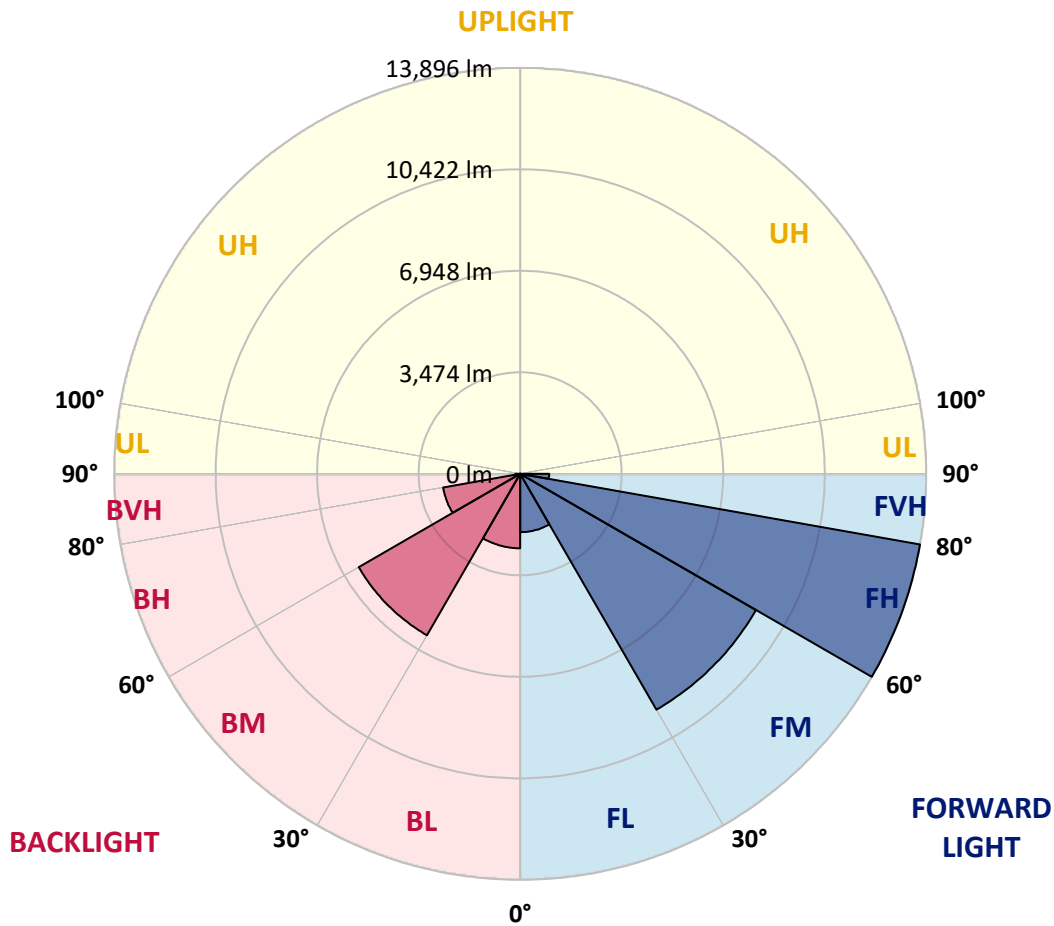
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.3	5.3			
FM (30°-60°)	9320.8	24.5			
FH (60°-80°)	13896.4	36.6			G5
FVH (80°-90°)	991.1	2.6			G5
BL (0°-30°)	2548.3	6.7	B4/5000		
BM (30°-60°)	6381.1	16.8	B4/8500		
BH (60°-80°)	2676.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	158.2	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°	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9
2.5°	4275.5	4299.6	4293.6	4285.5	4285.5	4287.5	4285.5	4299.6	4313.7	4327.8
5°	4319.8	4343.9	4331.9	4321.8	4313.7	4311.7	4305.7	4303.7	4311.7	4329.8
7.5°	4406.4	4430.5	4412.4	4394.3	4378.2	4370.1	4362.1	4350.0	4343.9	4354.0
10°	4503.0	4527.2	4505.0	4472.8	4446.6	4436.6	4428.5	4416.4	4408.4	4414.4
12.5°	4599.7	4623.9	4593.7	4549.3	4515.1	4509.1	4499.0	4495.0	4493.0	4490.9
15°	4690.3	4710.5	4672.2	4619.8	4583.6	4573.5	4563.4	4569.5	4579.6	4591.6
17.5°	4760.8	4780.9	4724.6	4656.1	4621.8	4617.8	4611.8	4631.9	4660.1	4690.3
20°	4825.3	4845.4	4772.9	4680.3	4640.0	4640.0	4642.0	4684.3	4724.6	4768.9
22.5°	4915.9	4932.0	4843.4	4716.5	4658.1	4662.1	4678.2	4720.5	4770.9	4831.3
25°	5050.8	5062.9	4954.1	4785.0	4718.5	4730.6	4744.7	4764.8	4813.2	4883.7
27.5°	5268.3	5278.4	5135.4	4905.8	4805.1	4825.3	4845.4	4831.3	4853.4	4913.9
30°	5574.4	5580.5	5399.2	5095.1	4952.1	4962.2	4966.2	4907.8	4865.5	4913.9
32.5°	5936.9	5934.9	5719.4	5324.7	5119.3	5109.2	5075.0	4960.2	4861.5	4903.8
35°	6498.8	6476.6	6198.7	5646.9	5308.6	5246.2	5165.6	5018.6	4881.6	4893.7
37.5°	7429.2	7360.7	6976.1	6174.5	5590.5	5431.4	5312.6	5113.2	4925.9	4889.7
40°	8478.4	8391.8	7968.9	6897.5	6013.4	5757.7	5566.4	5248.2	4998.4	4907.8
42.5°	9723.0	9600.2	9145.0	7749.4	6549.1	6178.6	5890.6	5419.3	5105.2	4966.2
45°	11251.5	11088.4	10444.0	8710.0	7223.8	6730.4	6345.7	5679.1	5268.3	5079.0
47.5°	12796.2	12836.5	11920.1	9809.6	8033.4	7411.1	6915.7	6069.8	5505.9	5260.2
50°	14437.5	14465.7	13388.3	11028.0	8951.7	8180.4	7556.1	6506.8	5836.2	5518.0
52.5°	15718.3	15722.3	14721.4	12302.8	9908.3	9026.2	8246.8	7006.3	6218.9	5860.4
55°	16519.8	16509.8	15655.9	13509.1	11007.9	9914.3	9012.1	7574.2	6686.1	6263.2
57.5°	17101.8	17071.6	16300.3	14546.2	12179.9	10963.5	9878.1	8218.6	7237.9	6742.5
60°	17323.4	17305.3	16737.3	15442.4	13412.4	12123.5	10877.0	8939.6	7864.2	7308.4
62.5°	17408.0	17442.2	17166.3	16310.4	14731.5	13408.4	11974.5	9801.5	8569.0	7948.8
65°	17706.0	17768.4	17712.1	17446.2	16221.8	14912.8	13430.5	10826.6	9338.4	8635.5
67.5°	18296.1	18358.5	18382.7	18805.6	18042.3	16787.7	15247.1	12103.4	10238.6	9348.4
70°	18282.0	18263.9	18690.8	19887.0	20322.0	19383.6	17695.9	13674.2	11312.0	9940.5
72.5°	16640.7	16495.7	17504.6	19875.0	22219.1	22094.3	20686.6	15700.2	12238.3	10013.0
75°	12484.0	12097.4	13879.6	17911.4	22535.3	23632.9	22587.7	16956.8	12018.8	8847.0
77.5°	5338.8	4950.1	7050.6	13259.4	20169.0	22092.2	20843.6	14793.9	9594.1	5850.3
80°	1397.6	1395.6	2130.7	6011.4	13716.5	16314.4	14312.6	9553.8	5481.8	2090.4
82.5°	578.0	563.9	783.4	2338.1	6702.2	9155.1	7471.5	4261.4	1979.6	565.9
85°	215.5	213.5	380.6	807.6	2364.3	3776.0	2732.8	1089.5	493.4	275.9
87.5°	60.4	58.4	82.6	279.9	576.0	874.0	467.2	179.2	139.0	108.7
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°
4341.9	0°	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9	4341.9
4350.0	2.5°	4356.0	4366.1	4384.2	4398.3	4416.4	4436.6	4464.8	4482.9	4501.0	4513.1
4360.0	5°	4374.1	4396.3	4442.6	4488.9	4543.3	4593.7	4652.1	4694.3	4728.6	4738.7
4396.3	7.5°	4414.4	4450.7	4529.2	4607.8	4694.3	4776.9	4861.5	4934.0	4992.4	5014.6
4460.7	10°	4484.9	4533.2	4644.0	4754.8	4869.6	4996.4	5105.2	5209.9	5292.5	5326.7
4537.3	12.5°	4573.5	4633.9	4778.9	4932.0	5091.1	5266.3	5407.3	5536.1	5638.9	5685.2
4644.0	15°	4688.3	4766.8	4952.1	5157.5	5391.2	5634.8	5814.1	5957.0	6071.8	6128.2
4754.8	17.5°	4813.2	4917.9	5151.5	5461.6	5795.9	6116.1	6325.6	6430.3	6549.1	6603.5
4857.5	20°	4934.0	5062.9	5397.2	5848.3	6293.4	6633.7	6802.9	6831.1	6839.1	6845.2
4954.1	22.5°	5058.9	5232.1	5705.3	6335.7	6812.9	7048.6	7072.7	6951.9	6782.7	6704.2
5048.8	25°	5195.8	5425.4	6108.1	6873.4	7260.0	7288.2	7102.9	6808.9	6488.7	6341.7
5125.3	27.5°	5328.7	5648.9	6591.4	7386.9	7582.2	7334.5	6935.8	6518.9	6132.3	5977.2
5179.7	30°	5461.6	5904.7	7125.1	7836.0	7729.3	7219.8	6672.0	6206.8	5818.1	5655.0
5228.0	32.5°	5596.6	6202.7	7739.3	8160.2	7703.1	6976.1	6343.7	5856.4	5514.0	5342.8
5270.3	35°	5749.6	6569.3	8321.3	8337.5	7527.9	6617.6	5910.7	5437.5	5139.4	5002.5
5320.7	37.5°	5949.0	7034.5	8834.9	8381.8	7221.8	6092.0	5373.0	4942.1	4696.4	4633.9
5395.2	40°	6196.7	7594.3	9227.6	8311.3	6768.6	5453.6	4785.0	4440.6	4301.6	4315.7
5495.9	42.5°	6518.9	8220.6	9503.5	8130.0	6138.3	4795.0	4269.4	4116.4	4182.8	4239.2
5646.9	45°	6937.8	8871.1	9674.7	7821.9	5425.4	4237.2	3965.3	4001.6	4051.9	4058.0
5890.6	47.5°	7473.5	9529.7	9787.4	7356.7	4698.4	3844.5	3772.0	3780.0	3770.0	3727.7
6255.1	50°	8142.1	10170.1	9888.1	6740.4	4080.1	3598.8	3502.1	3473.9	3335.0	3198.0
6740.4	52.5°	8903.4	10758.1	9930.4	5975.2	3598.8	3393.4	3236.3	3059.1	2799.3	2757.0
7350.7	55°	9749.2	11301.9	9821.7	5034.7	3194.0	3129.6	2891.9	2678.5	2650.3	2614.0
8154.2	57.5°	10760.1	11887.9	9600.2	3985.5	2779.2	2821.4	2589.8	2614.0	2563.7	2507.3
9187.3	60°	11865.8	12494.1	9211.5	3028.9	2350.2	2436.8	2511.3	2509.3	2495.2	2448.9
10276.8	62.5°	12860.6	12892.8	8446.2	2320.0	1973.6	2138.7	2342.1	2340.1	2328.0	2301.9
11414.7	65°	13452.7	12832.4	7169.4	1826.6	1663.5	1893.0	2112.6	2128.7	2130.7	2128.7
12270.6	67.5°	13348.0	12125.6	5417.3	1454.0	1407.7	1643.3	1885.0	1907.1	1923.3	1927.3
12379.3	70°	12163.8	10572.9	3532.3	1160.0	1180.1	1423.8	1669.5	1691.7	1705.8	1721.9
10742.0	72.5°	9481.3	7773.6	2021.9	938.5	980.8	1234.5	1456.0	1482.2	1490.3	1520.5
7475.5	75°	5777.8	4571.5	1091.5	739.1	805.6	1055.3	1244.6	1274.8	1288.9	1325.1
3671.3	77.5°	2746.9	1979.6	622.3	576.0	648.5	861.9	1051.2	1085.5	1047.2	1067.4
1013.0	80°	928.4	735.1	392.7	439.0	495.4	672.6	841.8	876.0	795.5	791.5
336.3	82.5°	324.2	298.1	249.7	292.0	320.2	481.3	636.4	680.7	592.1	590.1
151.0	85°	126.9	120.8	139.0	159.1	191.3	296.0	418.9	441.0	364.5	294.0
44.3	87.5°	26.2	28.2	34.2	36.2	58.4	102.7	151.0	185.3	147.0	124.9
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>
4341.9
4505.0
4742.7
5016.6
5328.7
5685.2
6124.2
6601.5
6861.3
6726.4
6363.9
5995.3
5673.1
5365.0
5032.7
4678.2
4364.1
4291.6
4098.2
3759.9
3216.2
2771.1
2620.1
2497.2
2432.8
2291.8
2128.7
1931.3
1729.9
1532.6
1329.2
1051.2
783.4
561.9
290.0
114.8
0.0

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