

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: P944612

Luminaire Tested: **GALN-SB9C-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944612
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-SB9C-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 41159 lumens
Efficiency: N/A
Efficacy: 91.5 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

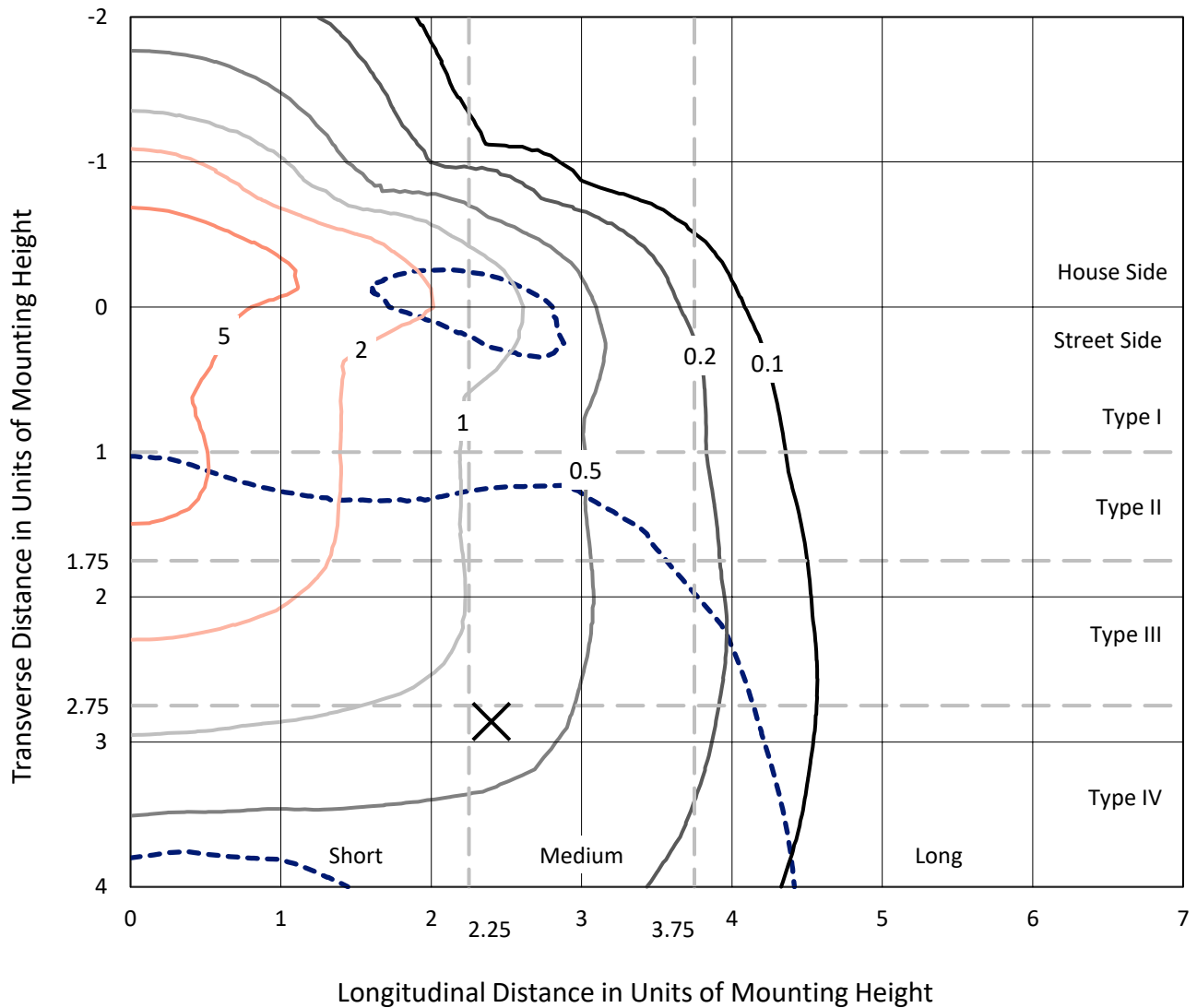
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

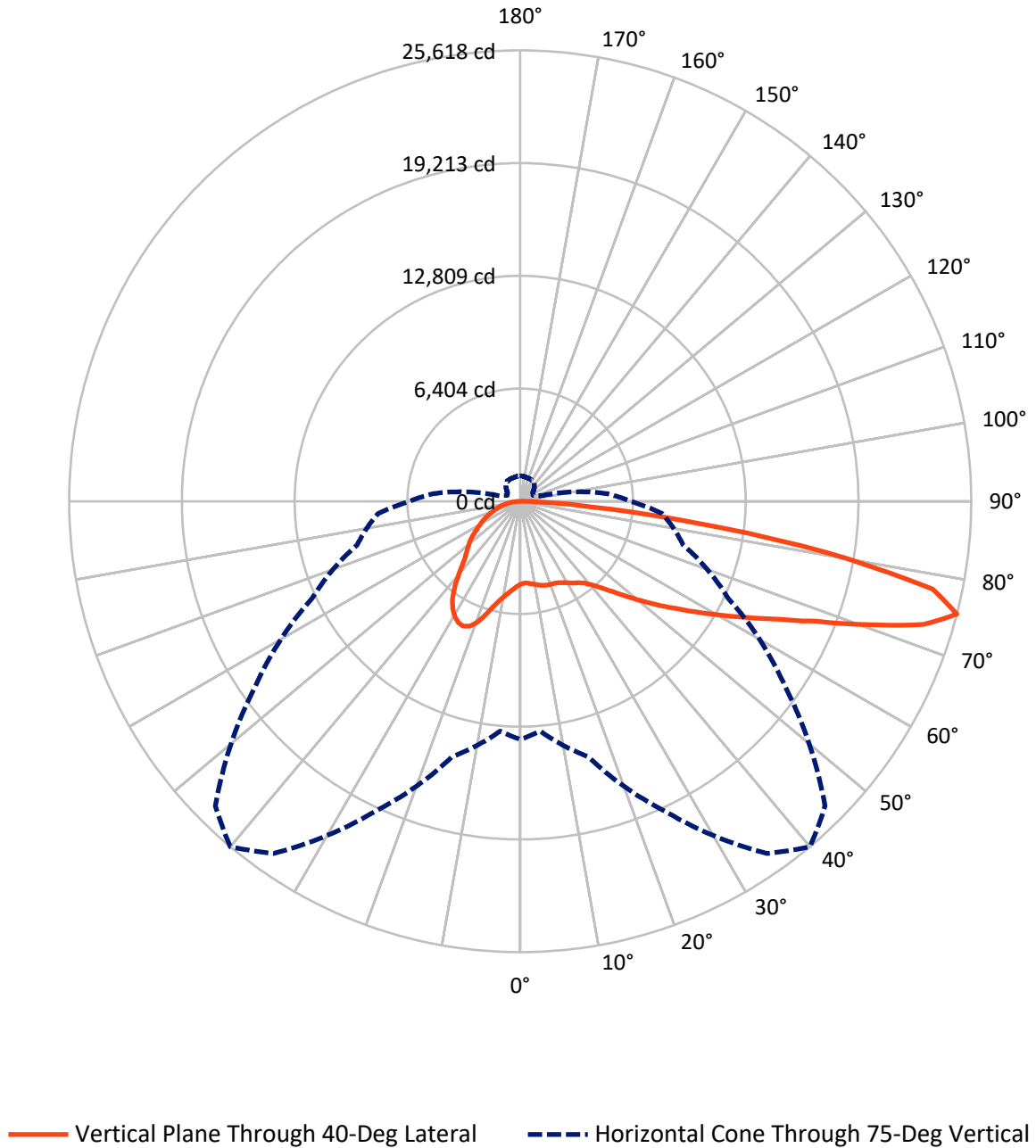
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	12752.4	0.0	12752.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	28406.6	0.0	28406.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	41159.0	0.0	41159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.8	1.1
10°-20°	1577.4	3.8
20°-30°	2880.1	7.0
30°-40°	4084.8	9.9
40°-50°	5515.7	13.4
50°-60°	7420.1	18.0
60°-70°	9417.8	22.9
70°-80°	8547.3	20.8
80°-90°	1245.9	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°	41159.0	100.0
0°-180°	41159.0	100.0

Coefficient of Utilization



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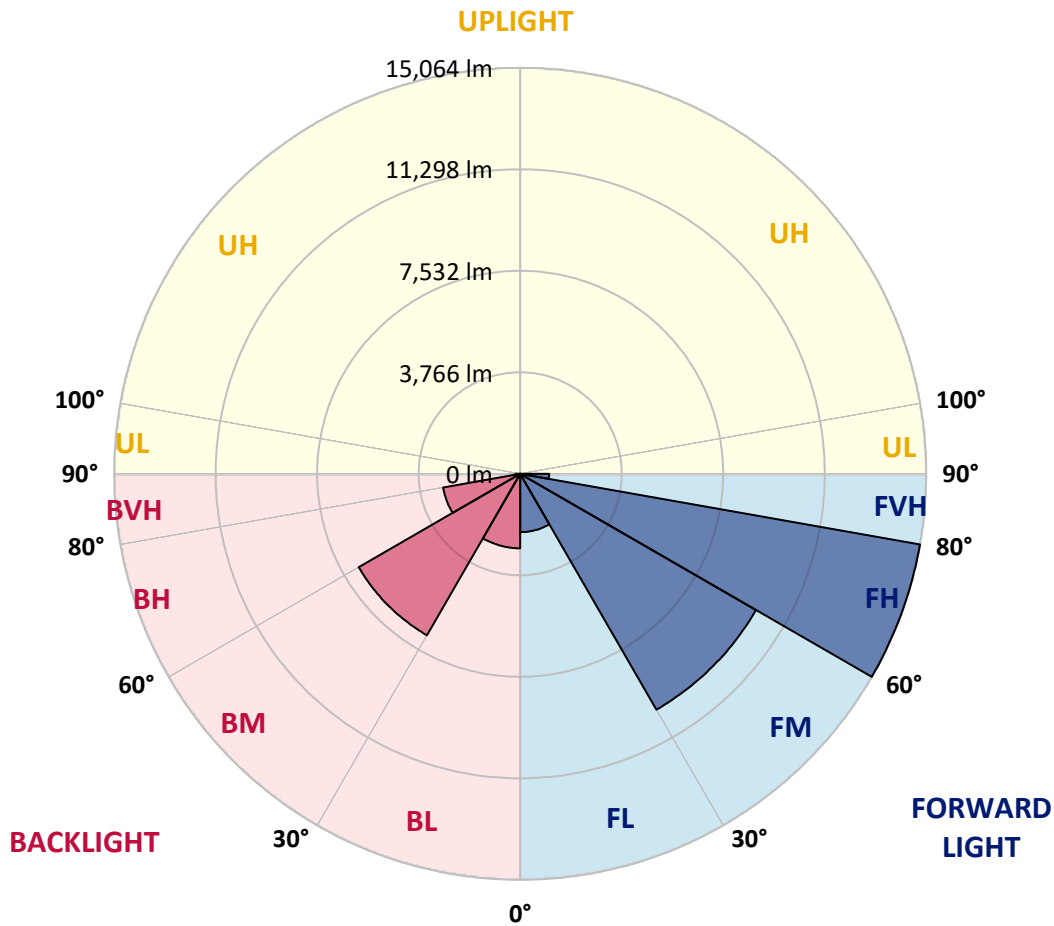
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.0	5.3			
FM (30°-60°)	10103.6	24.5			
FH (60°-80°)	15063.6	36.6			G5
FVH (80°-90°)	1074.4	2.6			G5
BL (0°-30°)	2762.3	6.7	B4/5000		
BM (30°-60°)	6917.1	16.8	B4/8500		
BH (60°-80°)	2901.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	171.5	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°	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6
2.5°	4634.5	4660.7	4654.2	4645.5	4645.5	4647.6	4645.5	4660.7	4676.0	4691.3
5°	4682.6	4708.8	4695.7	4684.8	4676.0	4673.8	4667.3	4665.1	4673.8	4693.5
7.5°	4776.4	4802.6	4783.0	4763.3	4745.9	4737.1	4728.4	4715.3	4708.8	4719.7
10°	4881.2	4907.4	4883.4	4848.5	4820.1	4809.2	4800.5	4787.4	4778.6	4785.2
12.5°	4986.0	5012.2	4979.5	4931.4	4894.3	4887.8	4876.9	4872.5	4870.3	4868.1
15°	5084.2	5106.1	5064.6	5007.8	4968.5	4957.6	4946.7	4953.3	4964.2	4977.3
17.5°	5160.7	5182.5	5121.4	5047.1	5010.0	5005.7	4999.1	5020.9	5051.5	5084.2
20°	5230.5	5252.3	5173.8	5073.3	5029.7	5029.7	5031.9	5077.7	5121.4	5169.4
22.5°	5328.7	5346.2	5250.2	5112.6	5049.3	5053.7	5071.2	5117.0	5171.6	5237.1
25°	5475.0	5488.1	5370.2	5186.9	5114.8	5127.9	5143.2	5165.0	5217.4	5293.8
27.5°	5710.8	5721.7	5566.7	5317.8	5208.7	5230.5	5252.3	5237.1	5261.1	5326.6
30°	6042.6	6049.1	5852.7	5523.0	5368.0	5379.0	5383.3	5320.0	5274.2	5326.6
32.5°	6435.5	6433.4	6199.8	5771.9	5549.2	5538.3	5501.2	5376.8	5269.8	5315.6
35°	7044.6	7020.6	6719.3	6121.2	5754.4	5686.8	5599.4	5440.1	5291.6	5304.7
37.5°	8053.2	7978.9	7562.0	6693.1	6060.1	5887.6	5758.8	5542.7	5339.7	5300.4
40°	9190.5	9096.6	8638.2	7476.8	6518.5	6241.2	6033.9	5688.9	5418.3	5320.0
42.5°	10539.6	10406.4	9913.1	8400.3	7099.2	6697.5	6385.3	5874.5	5534.0	5383.3
45°	12196.5	12019.7	11321.1	9441.6	7830.5	7295.6	6878.7	6156.1	5710.8	5505.6
47.5°	13870.9	13914.6	12921.3	10633.5	8708.1	8033.5	7496.5	6579.6	5968.4	5702.0
50°	15650.1	15680.6	14512.7	11954.2	9703.5	8867.4	8190.7	7053.3	6326.4	5981.5
52.5°	17038.5	17042.8	15957.9	13336.1	10740.4	9784.3	8939.5	7594.7	6741.2	6352.6
55°	17907.3	17896.4	16970.8	14643.7	11932.4	10747.0	9769.0	8210.3	7247.6	6789.2
57.5°	18538.2	18505.4	17669.3	15767.9	13202.9	11884.3	10707.7	8908.9	7845.8	7308.7
60°	18778.3	18758.7	18143.1	16739.4	14538.9	13141.8	11790.5	9690.4	8524.7	7922.2
62.5°	18870.0	18907.1	18608.0	17680.3	15968.8	14534.5	12980.2	10624.7	9288.7	8616.4
65°	19193.1	19260.8	19199.6	18911.5	17584.2	16165.2	14558.5	11735.9	10122.7	9360.8
67.5°	19832.7	19900.4	19926.6	20385.0	19557.7	18197.6	16527.6	13119.9	11098.5	10133.6
70°	19817.4	19797.8	20260.6	21557.3	22028.8	21011.5	19182.2	14822.7	12262.0	10775.4
72.5°	18038.3	17881.1	18974.8	21544.2	24085.2	23949.9	22424.0	17018.8	13266.2	10854.0
75°	13532.5	13113.4	15045.4	19415.8	24428.0	25617.7	24484.7	18381.0	13028.3	9590.0
77.5°	5787.2	5365.9	7642.7	14373.0	21862.9	23947.7	22594.2	16036.4	10399.9	6341.7
80°	1515.0	1512.8	2309.6	6516.3	14868.5	17684.6	15514.7	10356.2	5942.2	2266.0
82.5°	626.5	611.2	849.2	2534.5	7265.1	9924.0	8099.0	4619.3	2145.9	613.4
85°	233.6	231.4	412.6	875.4	2562.9	4093.2	2962.4	1181.0	534.8	299.1
87.5°	65.5	63.3	89.5	303.4	624.3	947.4	506.5	194.3	150.6	117.9
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°
4706.6	0°	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6	4706.6
4715.3	2.5°	4721.9	4732.8	4752.4	4767.7	4787.4	4809.2	4839.8	4859.4	4879.0	4892.1
4726.2	5°	4741.5	4765.5	4815.7	4865.9	4924.9	4979.5	5042.8	5088.6	5125.7	5136.6
4765.5	7.5°	4785.2	4824.5	4909.6	4994.7	5088.6	5178.1	5269.8	5348.4	5411.7	5435.7
4835.4	10°	4861.6	4914.0	5034.0	5154.1	5278.5	5416.1	5534.0	5647.5	5737.0	5774.1
4918.3	12.5°	4957.6	5023.1	5180.3	5346.2	5518.7	5708.6	5861.4	6001.1	6112.4	6162.7
5034.0	15°	5082.1	5167.2	5368.0	5590.7	5843.9	6108.1	6302.4	6457.4	6581.8	6642.9
5154.1	17.5°	5217.4	5330.9	5584.2	5920.3	6282.7	6629.8	6856.9	6970.4	7099.2	7158.1
5265.4	20°	5348.4	5488.1	5850.5	6339.5	6821.9	7190.9	7374.2	7404.8	7413.5	7420.1
5370.2	22.5°	5483.7	5671.5	6184.5	6867.8	7385.1	7640.6	7666.8	7535.8	7352.4	7267.3
5472.8	25°	5632.2	5881.1	6621.1	7450.6	7869.8	7900.3	7699.5	7380.8	7033.7	6874.3
5555.8	27.5°	5776.3	6123.4	7145.0	8007.3	8219.1	7950.6	7518.3	7066.4	6647.3	6479.2
5614.7	30°	5920.3	6400.6	7723.5	8494.1	8378.4	7826.1	7232.3	6728.1	6306.7	6129.9
5667.1	32.5°	6066.6	6723.7	8389.3	8845.6	8350.0	7562.0	6876.5	6348.2	5977.1	5791.5
5713.0	35°	6232.5	7121.0	9020.2	9037.7	8160.1	7173.4	6407.2	5894.1	5571.1	5422.6
5767.5	37.5°	6448.6	7625.3	9576.9	9085.7	7828.3	6603.6	5824.3	5357.1	5090.8	5023.1
5848.3	40°	6717.1	8232.2	10002.6	9009.3	7337.1	5911.6	5186.9	4813.6	4662.9	4678.2
5957.5	42.5°	7066.4	8911.1	10301.7	8812.8	6653.8	5197.8	4628.0	4462.1	4534.1	4595.3
6121.2	45°	7520.5	9616.2	10487.2	8478.8	5881.1	4593.1	4298.4	4337.7	4392.2	4398.8
6385.3	47.5°	8101.2	10330.0	10609.5	7974.6	5093.0	4167.4	4088.8	4097.5	4086.6	4040.8
6780.5	50°	8825.9	11024.2	10718.6	7306.6	4422.8	3901.1	3796.3	3765.7	3615.1	3466.6
7306.6	52.5°	9651.1	11661.7	10764.5	6477.0	3901.1	3678.4	3508.1	3316.0	3034.4	2988.6
7968.0	55°	10568.0	12251.1	10646.6	5457.5	3462.3	3392.4	3134.8	2903.4	2872.9	2833.6
8839.0	57.5°	11663.9	12886.4	10406.4	4320.2	3012.6	3058.4	2807.4	2833.6	2779.0	2717.9
9958.9	60°	12862.3	13543.4	9985.1	3283.3	2547.6	2641.5	2722.2	2720.0	2704.8	2654.5
11139.9	62.5°	13940.8	13975.7	9155.6	2514.8	2139.4	2318.4	2538.8	2536.7	2523.6	2495.2
12373.3	65°	14582.6	13910.2	7771.5	1980.0	1803.2	2052.0	2290.0	2307.4	2309.6	2307.4
13301.1	67.5°	14469.0	13144.0	5872.3	1576.1	1525.9	1781.3	2043.3	2067.3	2084.8	2089.1
13419.0	70°	13185.4	11460.8	3829.0	1257.4	1279.2	1543.4	1809.7	1833.7	1849.0	1866.5
11644.2	72.5°	10277.6	8426.4	2191.7	1017.3	1063.1	1338.2	1578.3	1606.7	1615.4	1648.2
8103.4	75°	6263.1	4955.5	1183.2	801.2	873.2	1143.9	1349.1	1381.9	1397.1	1436.4
3979.6	77.5°	2977.6	2145.9	674.6	624.3	702.9	934.3	1139.5	1176.6	1135.2	1157.0
1098.1	80°	1006.4	796.8	425.7	475.9	537.0	729.1	912.5	949.6	862.3	857.9
364.6	82.5°	351.5	323.1	270.7	316.5	347.1	521.7	689.8	737.9	641.8	639.6
163.7	85°	137.5	131.0	150.6	172.5	207.4	320.9	454.1	478.1	395.1	318.7
48.0	87.5°	28.4	30.6	37.1	39.3	63.3	111.3	163.7	200.8	159.4	135.3
0.0	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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180°
4706.6
4883.4
5141.0
5437.9
5776.3
6162.7
6638.6
7155.9
7437.5
7291.3
6898.3
6498.8
6149.6
5815.6
5455.4
5071.2
4730.6
4652.0
4442.4
4075.7
3486.3
3003.8
2840.1
2706.9
2637.1
2484.3
2307.4
2093.5
1875.2
1661.3
1440.8
1139.5
849.2
609.1
314.4
124.4
0.0

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