

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: P956778

Luminaire Tested: **GALN-SB9B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44513 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

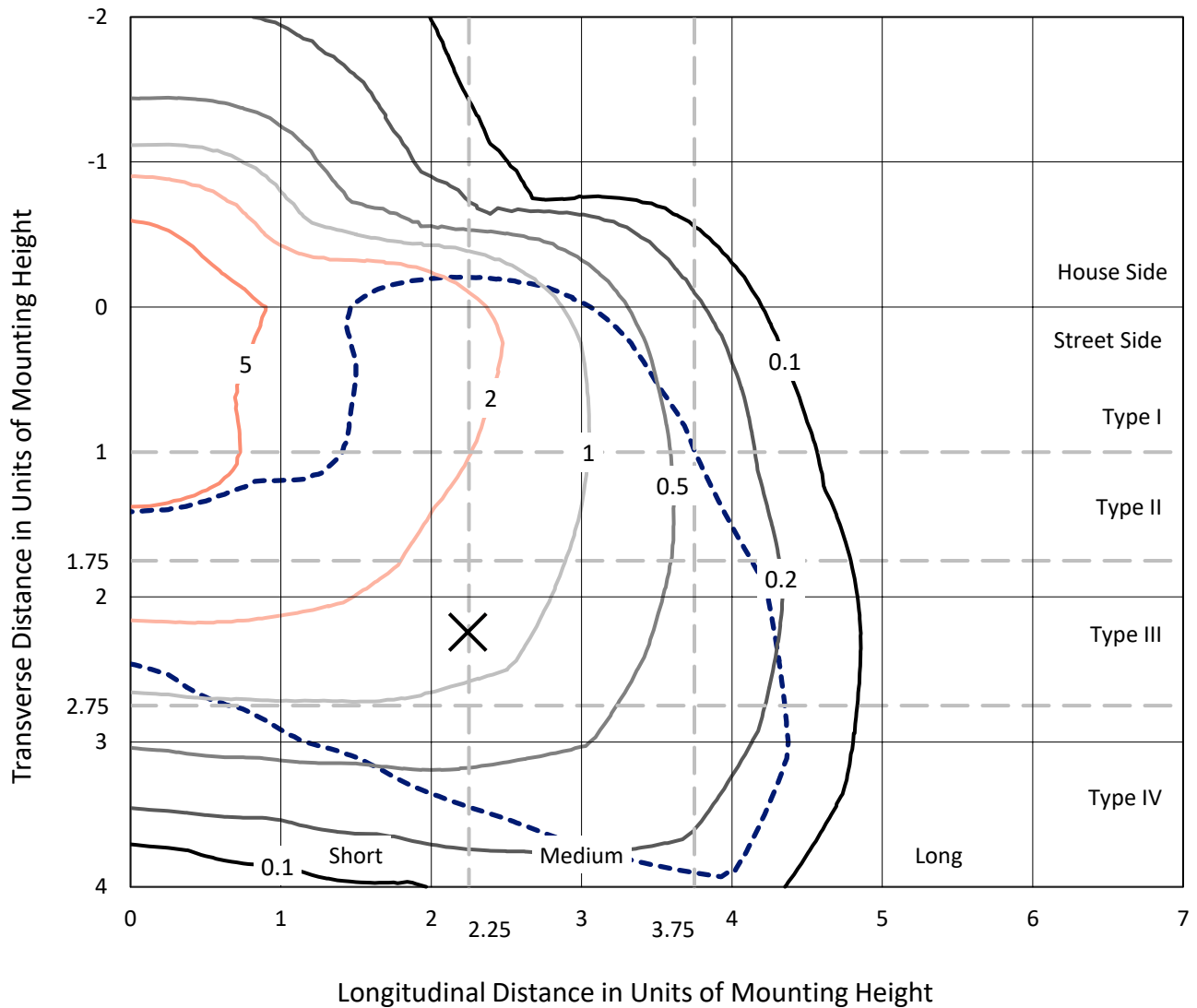
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

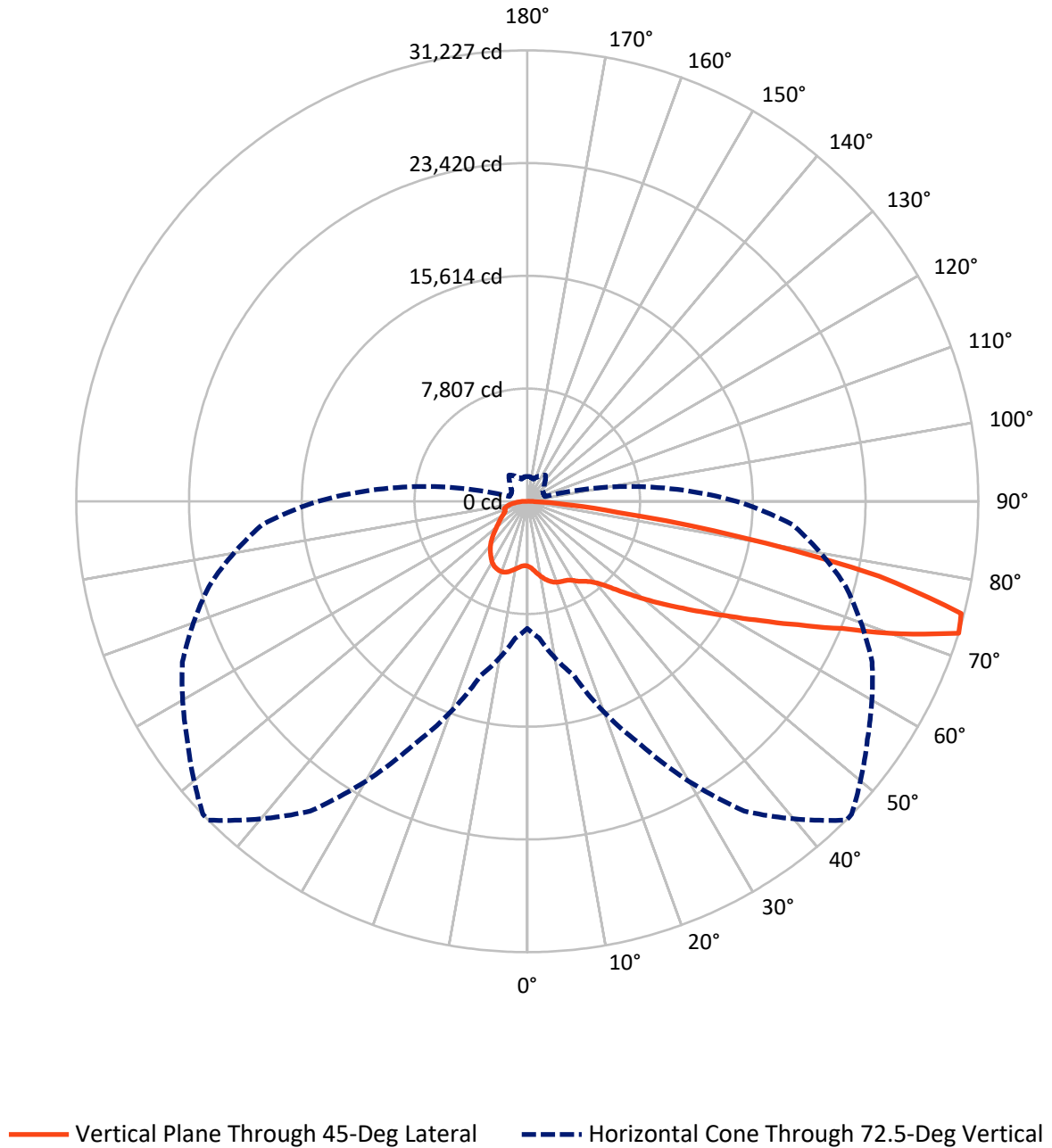
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10062.9	0.0	10062.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	34450.1	0.0	34450.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	44513.0	0.0	44513.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.0	1.0
10°-20°	1523.8	3.4
20°-30°	2650.8	6.0
30°-40°	3800.1	8.5
40°-50°	5350.7	12.0
50°-60°	8195.8	18.4
60°-70°	11872.8	26.7
70°-80°	9481.1	21.3
80°-90°	1180.8	2.7
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°	44513.0	100.0
0°-180°	44513.0	100.0



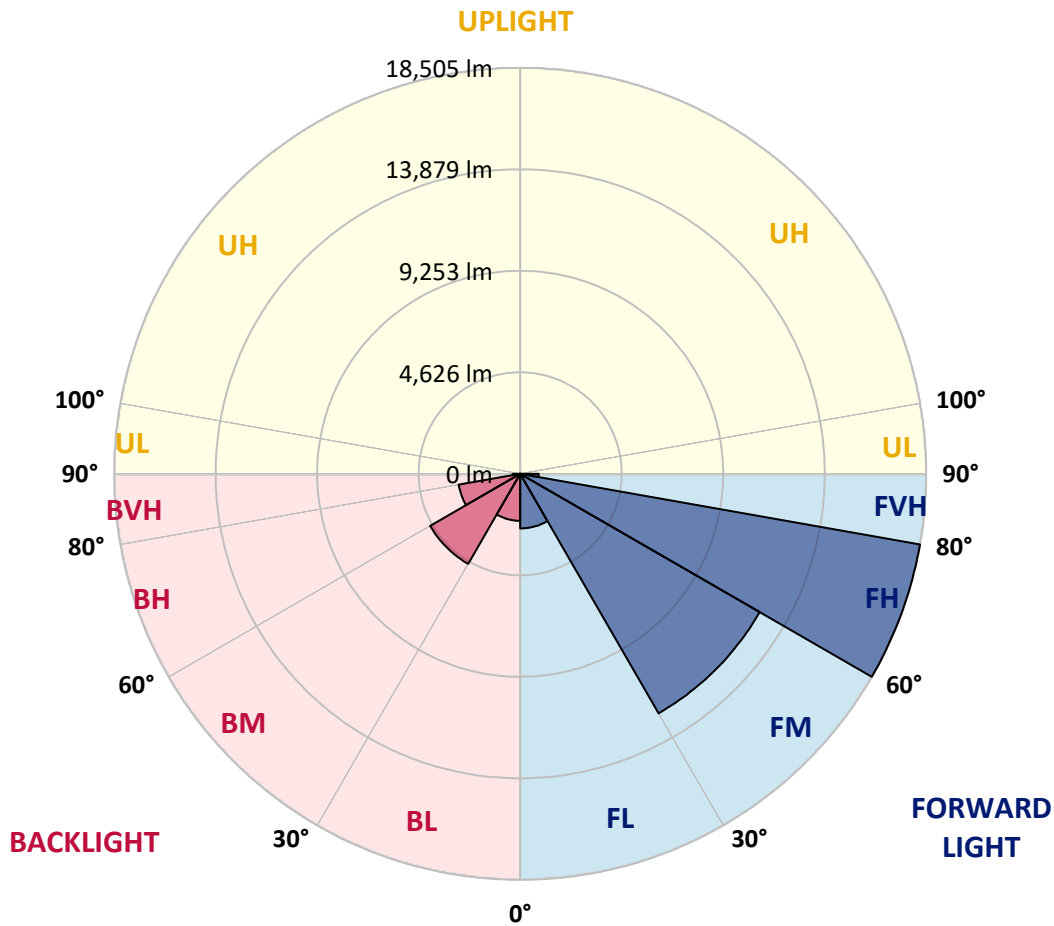
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2489.2	5.6			
FM (30°-60°)	12608.4	28.3			
FH (60°-80°)	18505.4	41.6			G5
FVH (80°-90°)	847.1	1.9			G5
BL (0°-30°)	2142.5	4.8	B3/2500		
BM (30°-60°)	4738.2	10.6	B3/5000		
BH (60°-80°)	2848.5	6.4	B4/5000		G4/5000
BVH (80°-90°)	333.7	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5
2.5°	4666.4	4696.8	4668.7	4642.9	4631.2	4600.7	4598.4	4579.6	4567.9	4535.0
5°	4992.3	5032.2	4985.3	4933.7	4886.8	4811.7	4802.4	4748.4	4687.5	4617.1
7.5°	5360.5	5395.6	5341.7	5264.3	5182.2	5058.0	5055.6	4957.1	4861.0	4741.4
10°	5681.7	5728.6	5655.9	5550.4	5447.2	5306.5	5290.1	5177.6	5055.6	4900.9
12.5°	5965.4	5998.3	5927.9	5799.0	5679.4	5538.7	5517.6	5393.3	5257.3	5081.4
15°	6190.6	6232.8	6139.0	6000.6	5874.0	5735.6	5716.9	5604.3	5468.3	5283.1
17.5°	6338.3	6373.5	6277.3	6122.6	6000.6	5885.7	5871.6	5777.8	5658.3	5470.7
20°	6394.6	6432.1	6331.2	6174.1	6061.6	5972.5	5965.4	5897.4	5815.4	5644.2
22.5°	6450.8	6486.0	6354.7	6190.6	6092.1	6035.8	6033.4	5988.9	5956.1	5815.4
25°	6678.3	6687.7	6511.8	6275.0	6134.3	6085.0	6082.7	6080.3	6094.4	5984.2
27.5°	6875.3	6872.9	6722.8	6500.1	6282.0	6178.8	6176.5	6199.9	6244.5	6153.0
30°	7163.7	7137.9	6959.7	6727.5	6528.2	6368.8	6354.7	6333.6	6368.8	6296.1
32.5°	7775.7	7693.6	7405.2	6992.5	6732.2	6610.3	6591.5	6460.2	6474.3	6429.7
35°	8652.7	8544.8	8160.3	7494.3	6985.5	6812.0	6802.6	6636.1	6607.9	6568.1
37.5°	9696.2	9562.5	9114.7	8221.2	7421.6	7046.4	7032.4	6882.3	6767.4	6725.2
40°	10744.4	10575.5	10205.0	9107.6	8064.1	7438.0	7393.5	7166.0	7034.7	6964.4
42.5°	11762.0	11621.4	11304.8	10101.9	8856.7	8010.2	7911.7	7522.5	7424.0	7358.3
45°	12662.5	12535.9	12303.7	11164.1	9785.3	8788.7	8692.6	8057.1	8026.6	8026.6
47.5°	13394.1	13366.0	13119.8	12247.4	10880.4	9675.1	9508.6	8800.4	8882.5	9009.1
50°	14205.4	14128.1	13865.4	13314.4	12167.7	10690.4	10554.4	9712.6	10019.8	10366.8
52.5°	14951.1	14993.3	14700.2	14425.9	13621.6	11823.0	11583.8	10788.9	11452.5	12027.0
55°	15717.9	15720.3	15638.2	15600.7	15145.7	13075.2	12812.6	12083.3	13138.5	13851.4
57.5°	16437.8	16442.5	16564.4	16895.0	16913.8	14519.7	14221.9	13673.1	15012.1	15739.0
60°	17080.3	17113.1	17446.1	18219.9	18468.5	16175.2	15893.8	15551.4	16949.0	17680.6
62.5°	17296.0	17415.6	18156.6	19256.4	20004.4	18205.9	17929.2	17725.1	18984.4	19664.4
65°	16930.2	17204.6	18637.3	20112.3	21584.9	20618.8	20344.4	20121.6	21099.5	21739.6
67.5°	16032.1	16386.2	18609.2	21010.4	23503.0	23521.8	23266.2	22743.2	23367.0	23613.2
70°	13666.1	14196.1	16970.1	21345.7	25704.9	27491.7	27245.5	25899.5	25629.8	24438.6
72.5°	8805.1	9518.0	12496.0	18585.7	26194.9	31227.1	31213.0	28748.5	26345.0	22834.7
75°	3212.5	3648.7	5806.0	11665.9	21988.2	31037.2	31128.6	28260.8	24049.4	17638.4
77.5°	1170.1	1280.3	1894.7	4483.5	13523.1	24902.9	25092.8	22593.2	17117.8	8852.0
80°	614.4	675.3	970.8	1739.9	5794.3	14789.3	15087.1	13426.9	8045.4	2666.2
82.5°	340.0	368.2	544.0	945.0	2609.9	6324.2	6502.4	5304.2	2830.3	1130.2
85°	182.9	194.6	255.6	515.9	1275.6	2192.5	2241.7	1585.2	1127.9	663.6
87.5°	53.9	65.7	84.4	164.1	499.5	492.4	504.2	314.2	445.5	335.3
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°
4490.5	0°	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5
4525.7	2.5°	4511.6	4504.6	4478.8	4467.0	4453.0	4450.6	4462.4	4464.7	4467.0	4469.4
4577.3	5°	4553.8	4530.4	4506.9	4492.8	4497.5	4499.9	4523.3	4539.7	4551.5	4560.8
4673.4	7.5°	4635.9	4617.1	4577.3	4574.9	4581.9	4603.1	4633.5	4671.1	4692.2	4708.6
4797.7	10°	4757.8	4722.6	4675.7	4682.8	4696.8	4727.3	4790.6	4821.1	4856.3	4886.8
4950.1	12.5°	4882.1	4851.6	4797.7	4802.4	4825.8	4879.7	4940.7	4978.2	5001.7	5025.1
5114.2	15°	5043.9	4990.0	4931.3	4931.3	4973.5	5032.2	5060.3	5090.8	5104.9	5130.7
5290.1	17.5°	5210.4	5140.0	5062.7	5058.0	5109.6	5137.7	5154.1	5158.8	5163.5	5191.6
5461.3	20°	5376.9	5299.5	5189.3	5179.9	5191.6	5186.9	5184.6	5179.9	5186.9	5222.1
5637.2	22.5°	5541.0	5451.9	5299.5	5257.3	5224.5	5179.9	5177.6	5175.2	5179.9	5215.1
5827.1	25°	5733.3	5625.4	5421.4	5294.8	5184.6	5123.6	5130.7	5133.0	5137.7	5165.8
6024.1	27.5°	5942.0	5822.4	5534.0	5283.1	5083.8	5041.5	5029.8	5036.9	5053.3	5097.8
6221.0	30°	6150.7	6010.0	5637.2	5236.2	4957.1	4898.5	4861.0	4877.4	4929.0	4973.5
6392.2	32.5°	6340.6	6199.9	5719.2	5133.0	4795.3	4703.9	4654.6	4675.7	4727.3	4743.7
6582.2	35°	6563.4	6403.9	5754.4	4968.9	4619.5	4478.8	4413.1	4382.6	4408.4	4392.0
6804.9	37.5°	6812.0	6645.5	5749.7	4753.1	4413.1	4251.3	4159.9	4045.0	3991.0	3934.8
7133.2	40°	7180.1	6940.9	5693.4	4492.8	4157.5	4009.8	3845.6	3651.0	3529.1	3418.9
7663.2	42.5°	7681.9	7351.3	5590.3	4206.8	3869.1	3730.7	3508.0	3280.5	3088.2	2905.3
8467.5	45°	8429.9	7888.3	5461.3	3901.9	3557.2	3421.2	3179.7	2924.1	2706.0	2471.5
9609.4	47.5°	9508.6	8610.5	5339.4	3554.9	3228.9	3104.7	2886.6	2649.7	2391.8	2164.3
11260.2	50°	10990.6	9646.9	5226.8	3217.2	2905.3	2811.5	2638.0	2396.5	2136.2	1953.3
13194.8	52.5°	12875.9	11056.2	5179.9	2891.3	2602.8	2567.7	2429.3	2204.2	1958.0	1803.2
15450.6	55°	15040.2	12742.2	5179.9	2579.4	2337.9	2349.6	2253.5	2044.8	1831.4	1693.0
17776.7	57.5°	17249.1	14449.3	5086.1	2291.0	2112.8	2162.0	2101.0	1918.1	1725.9	1582.8
20222.5	60°	19284.5	15879.7	4706.2	2028.3	1913.4	1990.8	1951.0	1793.9	1559.4	1439.8
22267.2	62.5°	20848.6	16686.4	3974.6	1819.6	1749.3	1838.4	1817.3	1629.7	1528.9	1479.6
23946.2	65°	21631.8	16555.0	3039.0	1634.4	1611.0	1749.3	1704.7	1697.7	1618.0	1561.7
24492.5	67.5°	21151.1	15424.8	2204.2	1498.4	1531.2	1667.2	1838.4	1866.5	1718.8	1608.6
22954.3	70°	19043.0	13380.0	1641.4	1369.4	1430.4	1669.6	2096.3	1953.3	1686.0	1557.0
18409.9	72.5°	14486.8	9977.6	1273.3	1233.4	1299.1	1681.3	2211.2	1913.4	1592.2	1721.2
11468.9	75°	8284.6	5477.7	1022.4	1066.9	1134.9	1571.1	2152.6	1810.3	1519.5	1580.5
4544.4	77.5°	3158.6	2105.7	844.2	902.8	912.2	1371.8	2058.8	1803.2	1446.8	1411.6
1362.4	80°	1095.1	823.1	698.8	717.5	705.8	1219.4	1974.4	1568.7	1184.2	1059.9
562.8	82.5°	447.9	410.4	553.4	529.9	501.8	947.3	1594.5	1282.7	968.4	855.9
272.0	85°	194.6	260.3	365.8	321.3	290.8	656.6	1278.0	1085.7	818.4	705.8
89.1	87.5°	39.9	98.5	154.8	145.4	150.1	438.5	907.5	771.5	579.2	433.8
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°
4490.5
4478.8
4565.5
4713.3
4879.7
5034.5
5140.0
5201.0
5236.2
5238.5
5203.3
5142.4
5022.8
4802.4
4443.6
3969.9
3425.9
2888.9
2443.4
2138.6
1941.6
1791.5
1679.0
1559.4
1421.0
1463.2
1542.9
1589.8
1535.9
1707.1
1580.5
1287.4
1024.7
846.5
703.5
340.0
0.0

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