

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: P957490

Luminaire Tested: **GALN-SB9D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82741 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

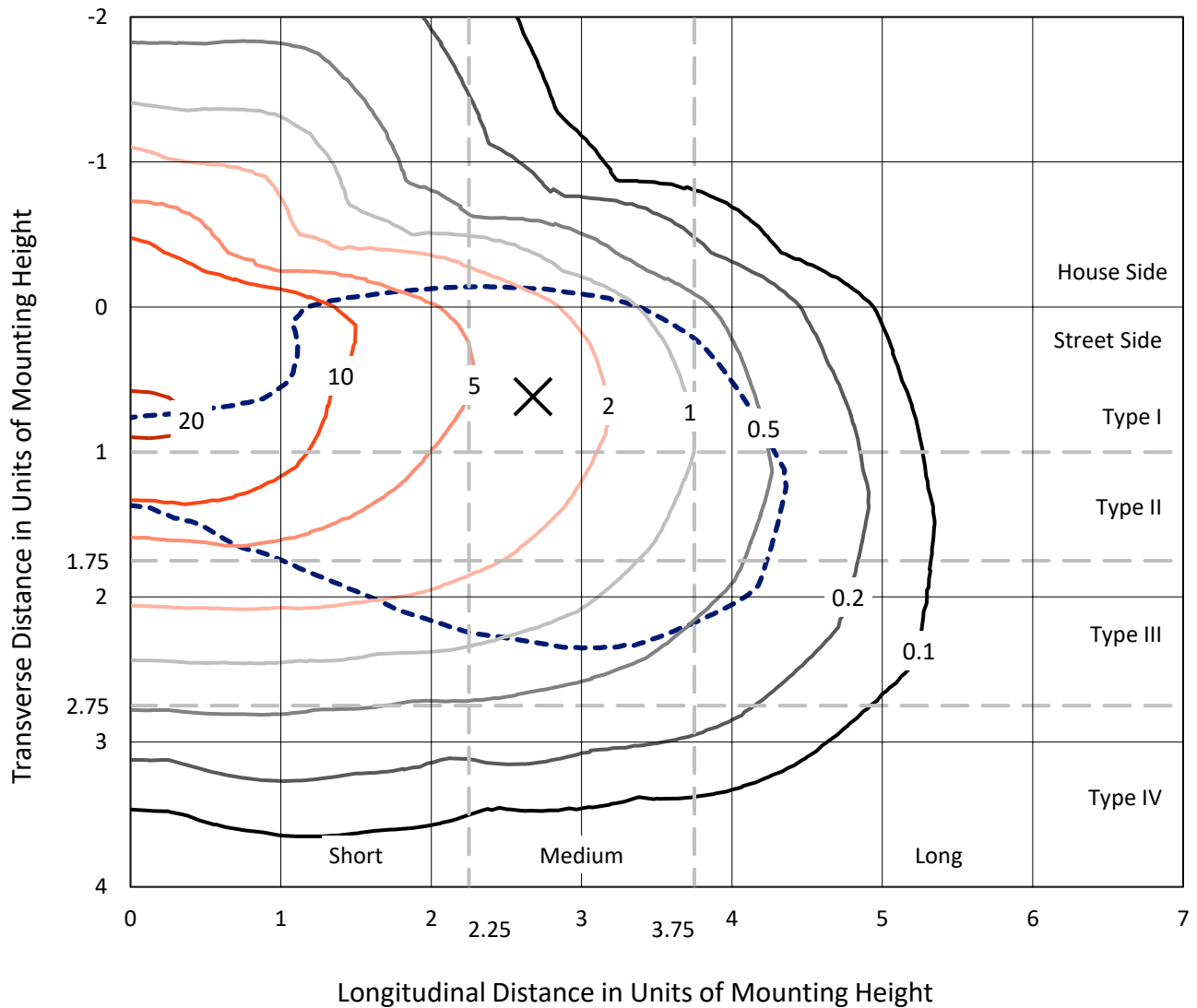
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

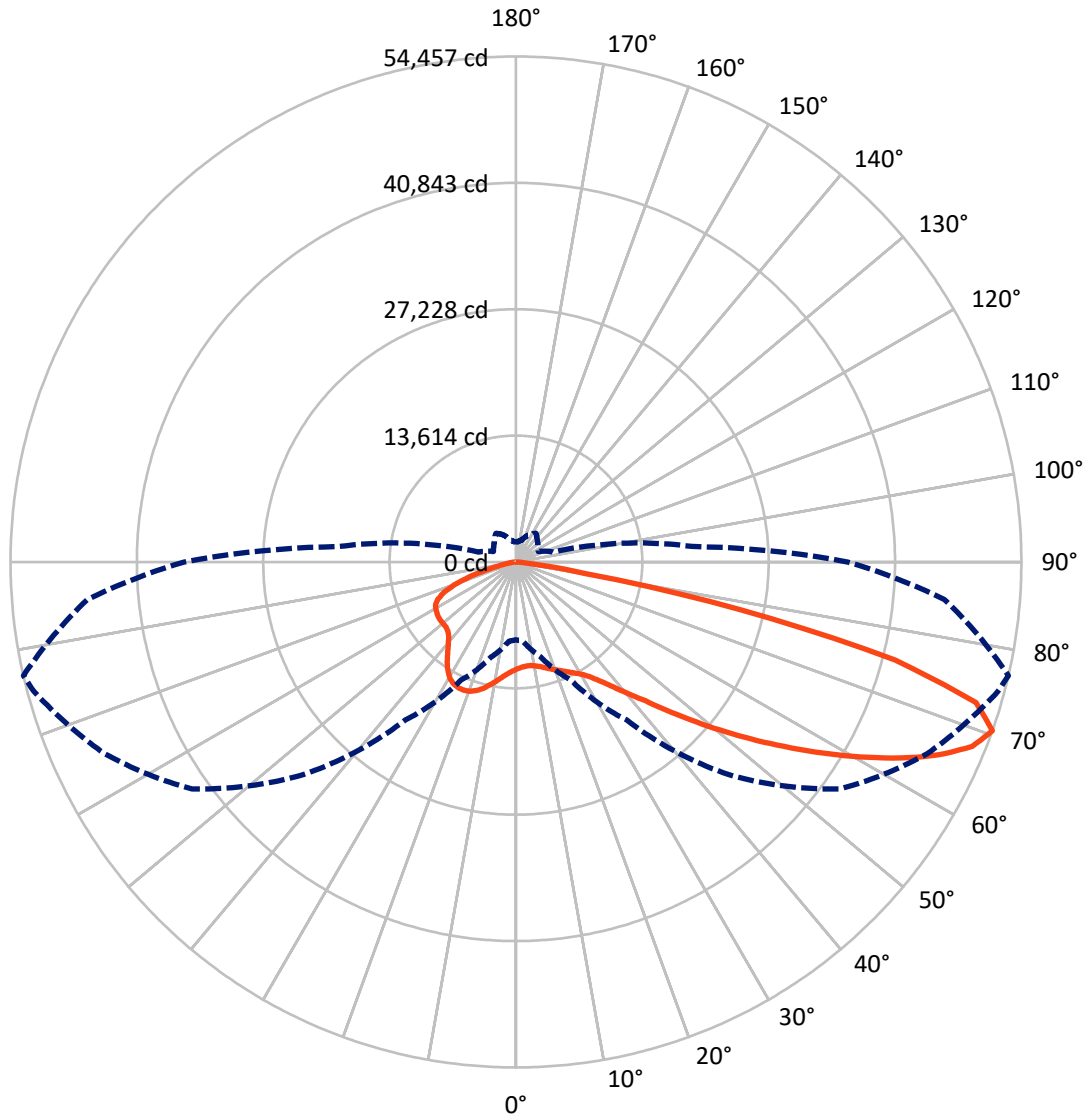
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18119.0	0.0	18119.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	64622.0	0.0	64622.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	82741.0	0.0	82741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1100.9	1.3
10°-20°	3177.3	3.8
20°-30°	5433.7	6.6
30°-40°	8737.9	10.6
40°-50°	13642.1	16.5
50°-60°	18222.6	22.0
60°-70°	19422.5	23.5
70°-80°	11956.4	14.5
80°-90°	1047.7	1.3
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°	82741.0	100.0
0°-180°	82741.0	100.0

Coefficient of Utilization



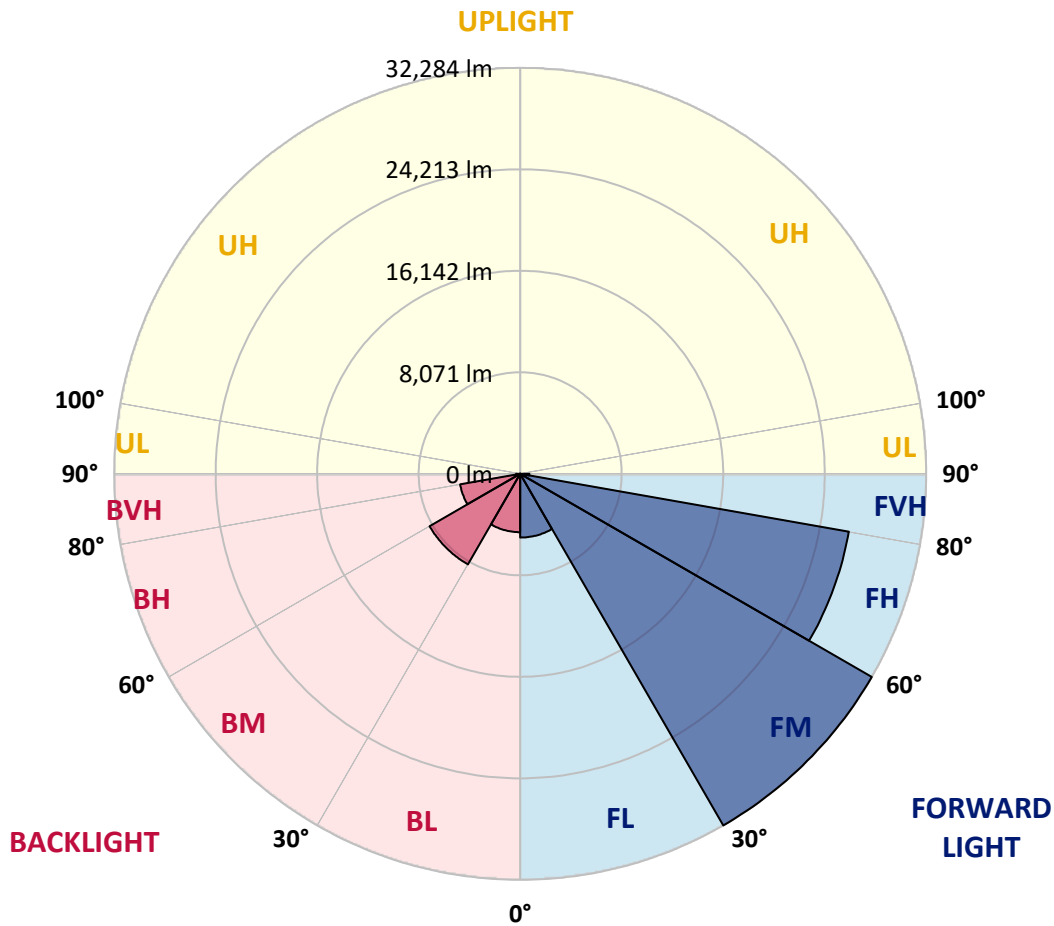
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5069.2	6.1			
FM (30°-60°)	32283.8	39.0			
FH (60°-80°)	26536.4	32.1			G5
FVH (80°-90°)	732.6	0.9			G4/750
BL (0°-30°)	4642.7	5.6	B4/5000		
BM (30°-60°)	8318.8	10.1	B4/8500		
BH (60°-80°)	4842.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	315.1	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1
2.5°	10640.5	10636.3	10691.4	10708.3	10810.0	10882.1	11017.7	11161.7	11348.2	11369.4
5°	10026.1	10026.1	10089.6	10157.4	10288.8	10432.9	10640.5	10890.5	11212.6	11263.4
7.5°	9504.9	9538.8	9593.8	9725.2	9877.8	10085.4	10403.2	10759.2	11182.9	11263.4
10°	9085.3	9123.5	9191.3	9297.2	9526.0	9814.2	10229.5	10687.1	11255.0	11382.1
12.5°	8954.0	8992.1	9030.2	9110.8	9322.6	9661.6	10157.4	10721.0	11428.7	11555.8
15°	9259.1	9305.7	9276.0	9254.8	9365.0	9674.4	10191.3	10843.9	11644.8	11827.0
17.5°	9962.5	9979.5	9911.7	9712.5	9695.5	9860.8	10352.4	11013.4	11916.0	12115.2
20°	11098.2	11068.5	10928.7	10534.6	10310.0	10276.1	10627.8	11267.7	12195.7	12407.6
22.5°	12640.7	12606.8	12327.1	11704.2	11204.1	10873.6	11026.1	11598.2	12509.3	12746.6
25°	14564.5	14517.9	14106.9	13259.3	12483.9	11666.0	11568.5	12034.7	12894.9	13115.3
27.5°	16810.4	16772.3	16327.3	15208.6	14089.9	12750.8	12242.3	12547.4	13297.5	13547.5
30°	19225.8	19336.0	18547.8	17344.3	15929.0	14166.2	13149.2	13178.8	13818.7	14043.3
32.5°	22065.0	22255.7	21306.5	19780.9	17848.6	15704.4	14293.3	14060.2	14577.2	14763.7
35°	24878.7	25094.9	24306.7	22620.1	20395.4	17518.1	15488.3	15073.0	15585.8	15789.2
37.5°	27311.1	27599.3	27192.4	25726.3	23120.1	19704.7	17047.7	16263.8	16827.4	17081.6
40°	29230.7	29671.4	29641.8	28726.4	26332.2	22357.4	19026.7	17734.2	18369.8	18645.3
42.5°	30790.1	31171.5	31502.1	31455.4	29684.1	25370.3	21353.1	19645.3	20128.4	20446.2
45°	31866.5	32273.3	32985.2	33752.2	32908.9	28595.1	24018.5	21912.4	22353.2	22832.0
47.5°	32828.4	33290.3	34214.1	35430.3	35646.4	31832.6	26938.2	24552.4	24955.0	25450.8
50°	32913.2	33311.5	34743.8	36468.5	37591.4	34943.0	30074.0	27514.5	27891.6	28421.3
52.5°	30866.4	31493.6	33993.7	36438.8	38485.6	37544.8	33188.6	30595.2	31019.0	31654.6
55°	23959.2	24878.7	31794.4	35303.1	38167.7	39227.1	36150.7	33870.8	34413.3	35078.6
57.5°	20636.9	21039.5	25238.9	33235.2	36718.5	39663.6	38650.8	37180.4	38053.3	38782.2
60°	18547.8	18882.6	21365.8	30018.9	34811.6	38972.9	40583.2	40265.3	41773.9	42642.6
62.5°	16310.4	16628.2	18886.8	25065.2	32370.8	37824.5	41803.6	43113.0	45587.7	46536.9
65°	14089.9	14361.1	16526.5	21060.7	29268.9	36676.1	42435.0	45575.0	49117.6	50100.7
67.5°	11615.2	11839.8	13886.5	17768.1	25497.4	35104.0	42748.5	47511.6	52189.8	53033.1
70°	8381.9	8555.6	10670.2	14051.8	20764.1	32400.4	42621.4	48884.5	53783.2	54456.9
72.5°	3962.1	4118.9	6602.1	9123.5	14666.2	27137.4	40049.2	47795.5	52164.4	51829.6
75°	2114.5	2250.1	3792.6	5004.6	7746.3	18602.9	32773.3	41172.2	43803.7	42176.5
77.5°	1432.3	1538.2	2347.6	3004.4	3538.4	8831.1	21064.9	28506.1	27425.5	24738.9
80°	1135.7	1245.8	1923.9	2034.0	1712.0	3190.9	8704.0	13195.8	9479.4	7581.0
82.5°	872.9	995.8	1618.7	1474.7	932.3	1309.4	2534.1	4174.0	2428.1	1847.6
85°	533.9	665.3	1271.3	940.7	525.5	597.5	860.2	1161.1	741.6	618.7
87.5°	271.2	381.4	644.1	343.2	237.3	139.8	228.8	228.8	194.9	169.5
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°
11543.1	0°	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1	11543.1
11483.8	2.5°	11585.5	11670.3	11814.3	11949.9	12055.9	12157.6	12259.3	12314.4	12331.3	12399.1
11547.4	5°	11721.1	11877.9	12157.6	12420.3	12585.6	12687.3	12759.3	12801.7	12810.2	12831.3
11721.1	7.5°	11971.1	12221.1	12611.0	12873.7	12996.6	12988.1	12958.5	12852.5	12810.2	12772.0
11975.4	10°	12322.8	12653.4	13132.2	13314.4	13238.1	13034.7	12772.0	12462.7	12318.6	12178.8
12322.8	12.5°	12759.3	13178.8	13649.2	13640.7	13263.6	12742.4	12132.1	11657.5	11356.7	11140.6
12750.8	15°	13289.0	13772.1	14132.3	13844.1	13017.8	12081.3	11187.2	10568.5	10297.3	10060.0
13183.1	17.5°	13835.6	14352.6	14517.9	13780.6	12399.1	11102.4	10089.6	9602.3	9335.4	9208.2
13649.2	20°	14369.6	14882.3	14746.7	13416.1	11458.4	9992.2	9089.6	8822.6	8767.5	8797.2
14102.6	22.5°	14933.2	15390.8	14793.3	12712.7	10259.1	8856.5	8360.7	8369.2	8492.1	8581.1
14577.2	25°	15509.5	15818.8	14670.4	11695.7	8970.9	8021.7	7898.8	8034.4	8276.0	8449.7
15111.2	27.5°	16064.6	16200.2	14403.5	10437.1	7864.9	7424.2	7445.4	7725.1	8089.5	8331.1
15759.5	30°	16691.8	16539.2	13890.7	9021.8	7097.9	6911.5	7089.4	7415.7	7780.2	7996.3
16577.4	32.5°	17399.4	16831.6	13077.1	7712.4	6555.5	6500.4	6792.8	7004.7	7165.7	7229.3
17662.2	35°	18280.9	17242.6	12034.7	6792.8	6068.2	6199.6	6479.2	6373.3	6309.7	6275.8
19119.9	37.5°	19425.0	17797.8	10814.3	6195.3	5674.1	5983.4	6097.9	5767.3	5517.3	5394.4
20887.0	40°	20802.2	18611.4	9640.5	5733.4	5424.1	5797.0	5597.8	5199.5	4881.7	4707.9
22874.4	42.5°	22332.0	19463.1	8653.1	5385.9	5284.2	5644.4	5229.2	4754.5	4241.8	4186.7
25243.2	45°	23938.0	20340.3	7979.3	5119.0	5216.4	5513.1	5017.3	4250.3	3885.8	4110.4
27620.4	47.5°	25544.0	21145.4	7572.5	4919.8	5182.5	5364.8	4830.8	3970.6	3712.1	4038.4
30167.2	50°	27332.3	21865.8	7390.3	4775.7	5144.4	5305.4	4551.1	3898.6	3529.9	3746.0
32803.0	52.5°	29107.8	22425.2	7254.7	4631.7	5089.3	5258.8	4415.5	3813.8	3309.5	3322.3
35455.7	55°	30879.1	22789.6	7106.4	4441.0	4966.4	5157.1	4402.8	3720.6	3144.3	3084.9
38261.0	57.5°	32769.1	22997.3	6924.2	4229.1	4754.5	4898.6	4390.1	3648.5	3093.4	2996.0
41129.8	60°	34692.9	23302.4	6686.9	3970.6	4470.6	4589.3	4360.5	3623.1	3063.8	2898.5
43833.4	62.5°	36417.6	23408.3	6403.0	3724.8	4106.2	4284.2	4296.9	3601.9	2983.2	2699.3
46079.3	65°	37549.1	22950.6	5907.2	3445.1	3712.1	3970.6	4174.0	3529.9	2839.2	2555.3
47189.5	67.5°	37502.4	21645.5	5131.7	3084.9	3330.7	3623.1	3996.0	3407.0	2665.4	2377.3
46350.5	70°	35756.6	19069.0	4148.6	2665.4	2911.2	3250.2	3767.2	3224.8	2457.8	2182.3
41214.5	72.5°	30667.3	14924.7	3012.9	2173.9	2423.9	2864.6	3470.6	3004.4	2245.9	2008.6
30459.6	75°	21908.2	9445.5	2042.5	1669.6	1885.7	2428.1	3101.9	2745.9	2051.0	2017.1
15255.2	77.5°	11191.4	4513.0	1351.8	1220.4	1313.6	1915.4	2606.1	2453.5	2080.6	1665.4
4339.3	80°	3640.1	1665.4	851.8	830.6	872.9	1275.5	2017.1	2012.8	1576.4	1131.4
1050.9	82.5°	1161.1	716.1	555.1	533.9	512.7	800.9	1406.9	1593.3	1063.6	716.1
377.1	85°	461.9	428.0	326.3	300.9	216.1	377.1	737.3	1059.4	792.4	517.0
97.5	87.5°	169.5	169.5	89.0	63.6	46.6	127.1	199.2	317.8	453.4	267.0
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°
11543.1
12437.3
12865.2
12780.5
12136.4
11089.7
10034.6
9246.4
8784.5
8602.3
8496.3
8390.4
8047.1
7263.2
6309.7
5424.1
4720.6
4241.8
4229.1
4191.0
3907.0
3411.2
3127.3
3008.7
2911.2
2699.3
2555.3
2390.0
2207.8
1995.9
1902.7
1483.1
1000.1
711.9
529.7
262.7
0.0

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