

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: P956001

Luminaire Tested: **GALN-SB8D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956001
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-SB8D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86885 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

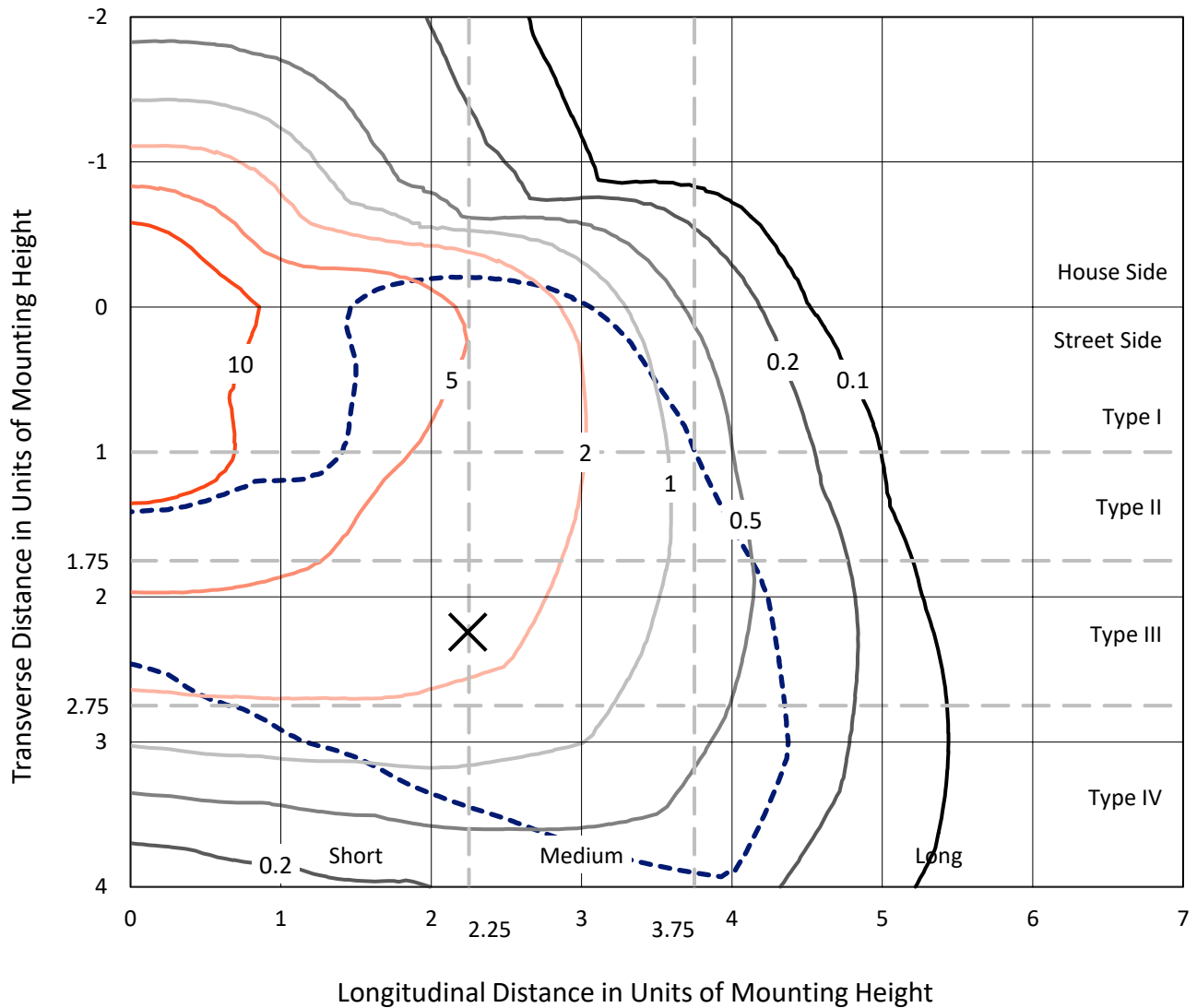
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

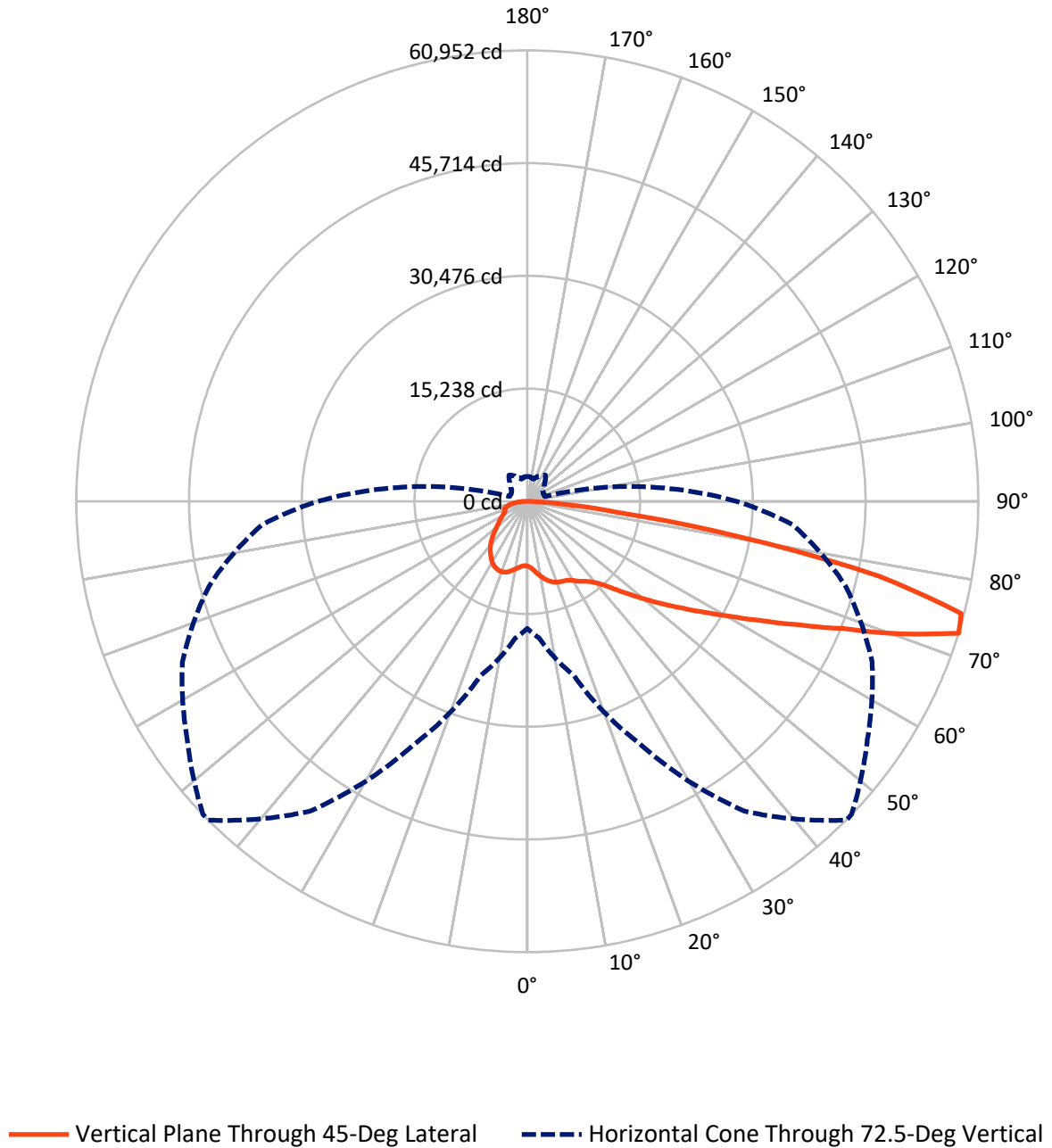
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	19641.7	0.0	19641.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	67243.3	0.0	67243.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	86885.0	0.0	86885.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.1	1.0
10°-20°	2974.4	3.4
20°-30°	5174.1	6.0
30°-40°	7417.4	8.5
40°-50°	10444.1	12.0
50°-60°	15997.3	18.4
60°-70°	23174.5	26.7
70°-80°	18506.2	21.3
80°-90°	2304.9	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°	86885.0	100.0
0°-180°	86885.0	100.0

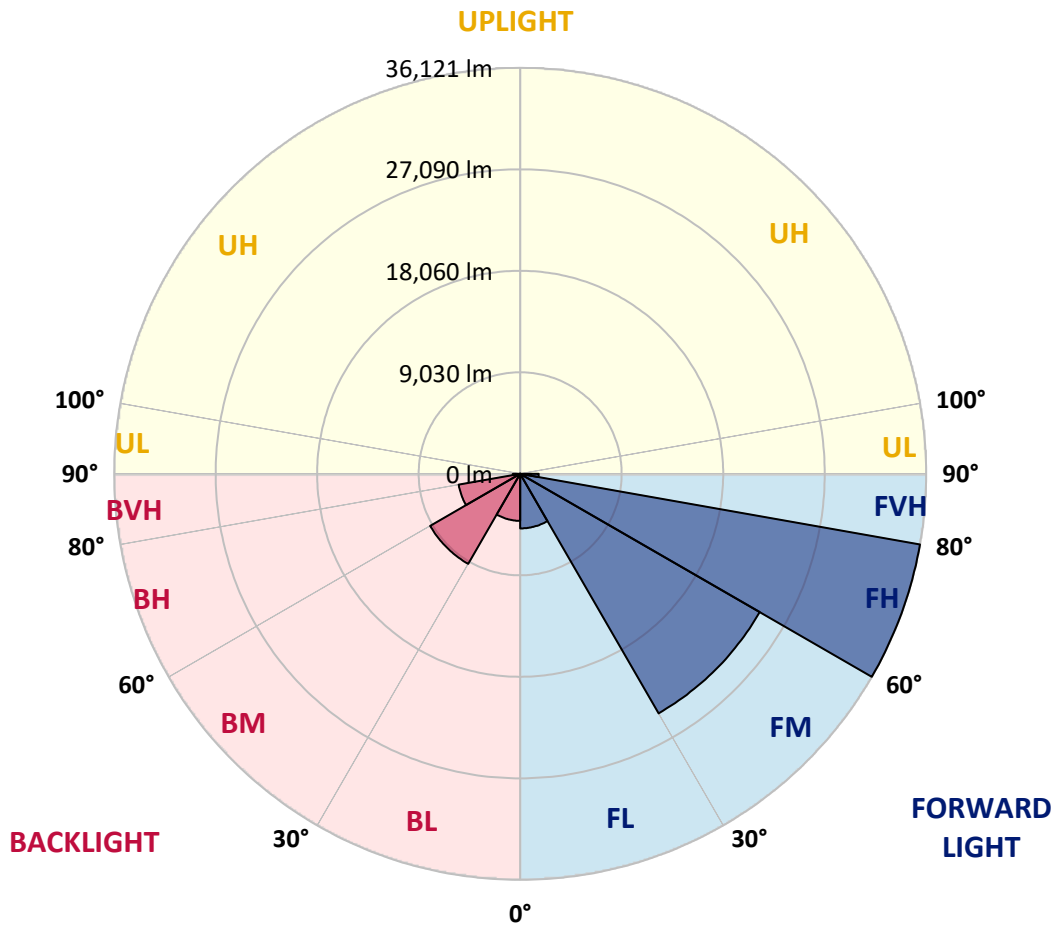


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4858.7	5.6			
FM (30°-60°)	24610.4	28.3			
FH (60°-80°)	36120.6	41.6			G5
FVH (80°-90°)	1653.5	1.9			G5
BL (0°-30°)	4181.9	4.8	B4/5000		
BM (30°-60°)	9248.5	10.6	B5		
BH (60°-80°)	5560.1	6.4	B5		G5
BVH (80°-90°)	651.3	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0
2.5°	9108.3	9167.8	9112.9	9062.5	9039.6	8980.1	8975.5	8938.9	8916.0	8852.0
5°	9744.5	9822.3	9730.8	9630.1	9538.5	9392.1	9373.7	9268.5	9149.5	9012.2
7.5°	10463.1	10531.7	10426.5	10275.4	10115.2	9872.6	9868.1	9675.8	9488.2	9254.7
10°	11090.1	11181.7	11039.8	10833.8	10632.4	10357.8	10325.8	10106.1	9868.1	9566.0
12.5°	11644.0	11708.0	11570.7	11319.0	11085.6	10810.9	10769.7	10527.2	10261.7	9918.4
15°	12083.3	12165.7	11982.7	11712.6	11465.5	11195.4	11158.8	10939.1	10673.6	10312.0
17.5°	12371.7	12440.4	12252.7	11950.6	11712.6	11488.3	11460.9	11277.8	11044.4	10678.2
20°	12481.6	12554.8	12358.0	12051.3	11831.6	11657.7	11644.0	11511.2	11351.0	11016.9
22.5°	12591.4	12660.1	12403.7	12083.3	11891.1	11781.3	11776.7	11689.7	11625.6	11351.0
25°	13035.4	13053.7	12710.4	12248.1	11973.5	11877.4	11872.8	11868.2	11895.7	11680.6
27.5°	13419.8	13415.3	13122.3	12687.5	12261.9	12060.5	12055.9	12101.7	12188.6	12010.1
30°	13982.8	13932.5	13584.6	13131.5	12742.4	12431.2	12403.7	12362.5	12431.2	12289.3
32.5°	15177.4	15017.2	14454.2	13648.7	13140.6	12902.6	12866.0	12609.7	12637.2	12550.2
35°	16889.2	16678.7	15928.1	14628.2	13635.0	13296.3	13278.0	12953.0	12898.1	12820.3
37.5°	18926.0	18665.1	17790.9	16047.1	14486.3	13754.0	13726.5	13433.6	13209.3	13126.9
40°	20971.9	20642.4	19919.2	17777.2	15740.4	14518.3	14431.4	13987.4	13731.1	13593.8
42.5°	22958.4	22683.7	22065.8	19717.8	17287.4	15635.1	15442.9	14683.1	14490.9	14362.7
45°	24715.9	24468.8	24015.7	21791.2	19099.9	17154.7	16967.0	15726.7	15667.2	15667.2
47.5°	26144.0	26089.1	25608.5	23905.8	21237.4	18884.8	18559.8	17177.6	17337.8	17584.9
50°	27727.6	27576.6	27064.0	25988.4	23750.2	20866.7	20601.2	18958.0	19557.6	20235.0
52.5°	29183.1	29265.5	28693.4	28157.9	26587.9	23077.4	22610.5	21058.9	22354.2	23475.6
55°	30679.8	30684.4	30524.2	30451.0	29563.0	25521.5	25008.9	23585.4	25645.1	27036.5
57.5°	32085.0	32094.1	32332.1	32977.5	33014.1	28340.9	27759.7	26688.6	29302.1	30721.0
60°	33339.1	33403.1	34053.1	35563.5	36048.7	31572.3	31023.1	30354.8	33082.7	34510.8
62.5°	33760.1	33993.6	35439.9	37586.5	39046.6	35536.0	34995.9	34597.7	37055.6	38382.9
65°	33046.1	33581.6	36378.2	39257.2	42131.5	40245.8	39710.3	39275.5	41184.1	42433.6
67.5°	31293.1	31984.3	36323.3	41010.2	45875.5	45912.2	45413.3	44392.6	45610.1	46090.7
70°	26674.9	27709.3	33123.9	41664.7	50173.4	53661.1	53180.5	50553.3	50026.9	47701.8
72.5°	17186.7	18578.1	24391.0	36277.5	51130.0	60952.3	60924.8	56114.3	51422.9	44571.1
75°	6270.5	7121.9	11332.7	22770.7	42918.8	60581.5	60760.0	55162.3	46942.0	34428.4
77.5°	2283.9	2499.1	3698.2	8751.3	26395.7	48608.0	48978.8	44099.6	33412.3	17278.3
80°	1199.2	1318.2	1894.9	3396.2	11309.8	28867.3	29448.6	26208.1	15703.8	5204.1
82.5°	663.7	718.6	1061.9	1844.5	5094.2	12344.2	12692.1	10353.2	5524.5	2206.1
85°	357.0	379.9	498.9	1006.9	2489.9	4279.5	4375.6	3094.1	2201.5	1295.3
87.5°	105.3	128.2	164.8	320.4	974.9	961.2	984.1	613.3	869.6	654.5
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°
8765.0	0°	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0	8765.0
8833.7	2.5°	8806.2	8792.5	8742.1	8719.2	8691.8	8687.2	8710.1	8714.7	8719.2	8723.8
8934.4	5°	8888.6	8842.8	8797.0	8769.6	8778.7	8783.3	8829.1	8861.1	8884.0	8902.3
9122.0	7.5°	9048.8	9012.2	8934.4	8929.8	8943.5	8984.7	9044.2	9117.4	9158.6	9190.7
9364.6	10°	9286.8	9218.1	9126.6	9140.3	9167.8	9227.3	9350.9	9410.4	9479.0	9538.5
9662.1	12.5°	9529.4	9469.9	9364.6	9373.7	9419.5	9524.8	9643.8	9717.0	9762.8	9808.6
9982.5	15°	9845.2	9739.9	9625.5	9625.5	9707.9	9822.3	9877.2	9936.7	9964.2	10014.5
10325.8	17.5°	10170.2	10032.8	9881.8	9872.6	9973.3	10028.3	10060.3	10069.5	10078.6	10133.5
10659.9	20°	10495.1	10344.1	10129.0	10110.7	10133.5	10124.4	10119.8	10110.7	10124.4	10193.0
11003.2	22.5°	10815.5	10641.6	10344.1	10261.7	10197.6	10110.7	10106.1	10101.5	10110.7	10179.3
11373.9	25°	11190.8	10980.3	10582.1	10334.9	10119.8	10000.8	10014.5	10019.1	10028.3	10083.2
11758.4	27.5°	11598.2	11364.8	10801.8	10312.0	9923.0	9840.6	9817.7	9831.5	9863.5	9950.5
12142.9	30°	12005.5	11730.9	11003.2	10220.5	9675.8	9561.4	9488.2	9520.2	9620.9	9707.9
12477.0	32.5°	12376.3	12101.7	11163.4	10019.1	9360.0	9181.5	9085.4	9126.6	9227.3	9259.3
12847.7	35°	12811.1	12499.9	11232.0	9698.7	9016.7	8742.1	8614.0	8554.5	8604.8	8572.8
13282.5	37.5°	13296.3	12971.3	11222.9	9277.6	8614.0	8298.1	8119.6	7895.4	7790.1	7680.3
13923.3	40°	14014.9	13548.0	11113.0	8769.6	8115.1	7826.7	7506.3	7126.4	6888.4	6673.3
14957.7	42.5°	14994.3	14349.0	10911.6	8211.2	7552.1	7282.0	6847.2	6403.3	6027.9	5670.9
16527.6	45°	16454.4	15397.1	10659.9	7616.2	6943.3	6677.9	6206.4	5707.6	5281.9	4824.2
18756.7	47.5°	18559.8	16806.8	10421.9	6938.8	6302.6	6060.0	5634.3	5172.0	4668.6	4224.6
21978.9	50°	21452.5	18829.9	10202.2	6279.7	5670.9	5487.9	5149.2	4677.7	4169.7	3812.7
25754.9	52.5°	25132.5	21580.7	10110.7	5643.5	5080.5	5011.8	4741.8	4302.4	3821.8	3519.7
30158.0	55°	29357.0	24871.6	10110.7	5034.7	4563.3	4586.2	4398.5	3991.2	3574.7	3304.6
34698.4	57.5°	33668.6	28203.6	9927.6	4471.8	4123.9	4220.0	4101.0	3744.0	3368.7	3089.5
39472.3	60°	37641.5	30995.6	9186.1	3959.1	3734.9	3885.9	3808.1	3501.4	3043.7	2810.3
43463.4	62.5°	40694.3	32570.1	7758.1	3551.8	3414.5	3588.4	3547.2	3181.0	2984.2	2888.1
46740.6	65°	42223.1	32313.8	5931.8	3190.2	3144.4	3414.5	3327.5	3313.8	3158.1	3048.3
47807.0	67.5°	41284.8	30107.7	4302.4	2924.7	2988.8	3254.3	3588.4	3643.3	3355.0	3139.8
44804.5	70°	37170.0	26116.5	3203.9	2673.0	2792.0	3258.8	4091.9	3812.7	3290.9	3039.1
35934.2	72.5°	28276.9	19475.2	2485.3	2407.5	2535.7	3281.7	4316.1	3734.9	3107.8	3359.5
22386.2	75°	16170.6	10691.9	1995.6	2082.5	2215.3	3066.6	4201.7	3533.5	2965.9	3084.9
8870.3	77.5°	6165.3	4110.2	1647.7	1762.2	1780.5	2677.6	4018.6	3519.7	2824.0	2755.4
2659.3	80°	2137.5	1606.5	1364.0	1400.6	1377.7	2380.1	3853.9	3062.0	2311.4	2068.8
1098.5	82.5°	874.2	801.0	1080.2	1034.4	979.5	1849.1	3112.4	2503.6	1890.3	1670.6
530.9	85°	379.9	508.0	714.0	627.1	567.6	1281.6	2494.5	2119.2	1597.4	1377.7
173.9	87.5°	77.8	192.2	302.1	283.8	292.9	855.9	1771.3	1505.8	1130.5	846.7
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°
8765.0
8742.1
8911.5
9199.8
9524.8
9826.9
10032.8
10151.8
10220.5
10225.1
10156.4
10037.4
9804.0
9373.7
8673.5
7748.9
6687.0
5638.9
4769.3
4174.2
3789.8
3496.8
3277.2
3043.7
2773.7
2856.1
3011.7
3103.2
2998.0
3332.1
3084.9
2512.8
2000.2
1652.3
1373.1
663.7
0.0

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