

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: P944146

Luminaire Tested: **GALN-SB8D-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44893 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

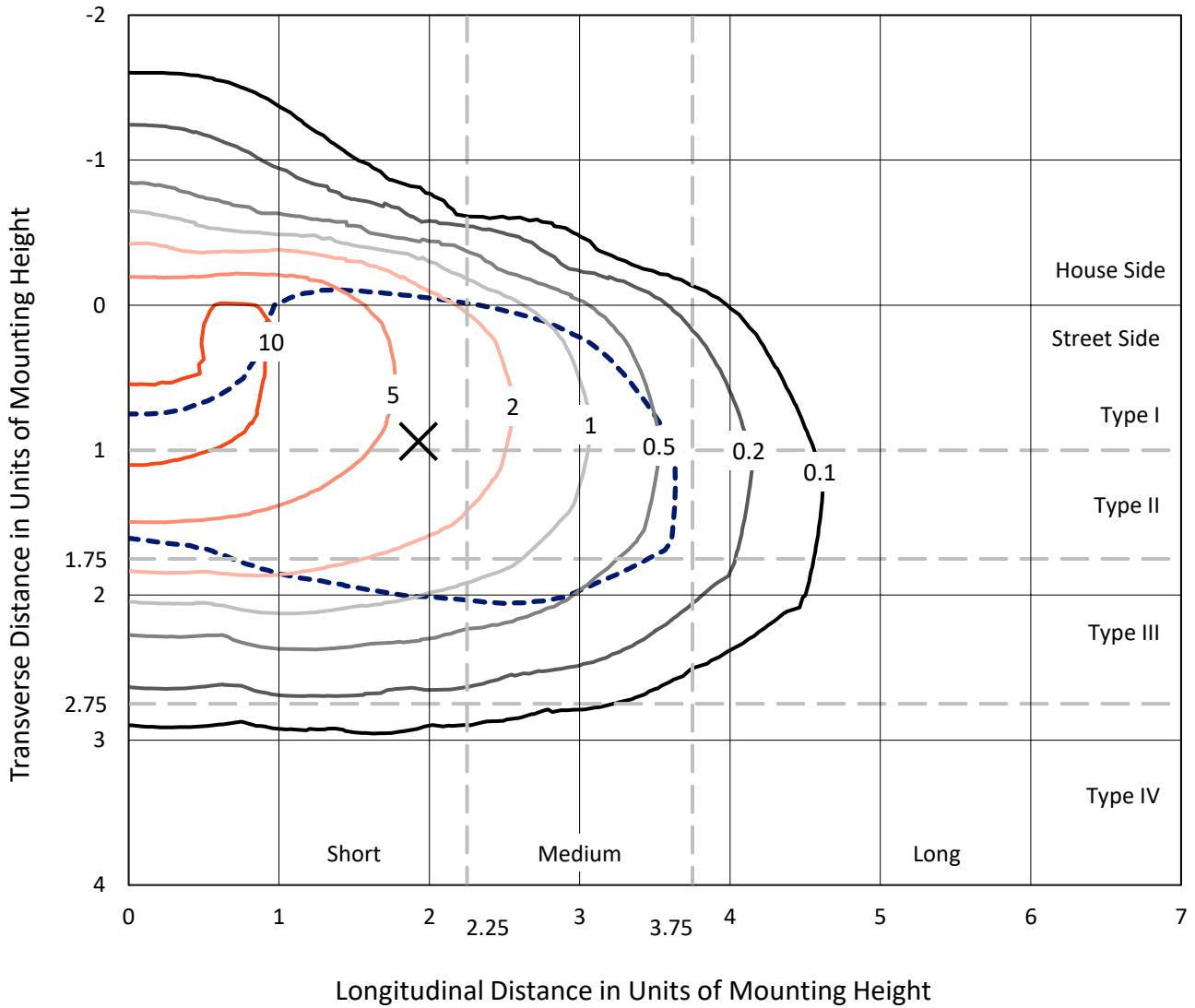
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

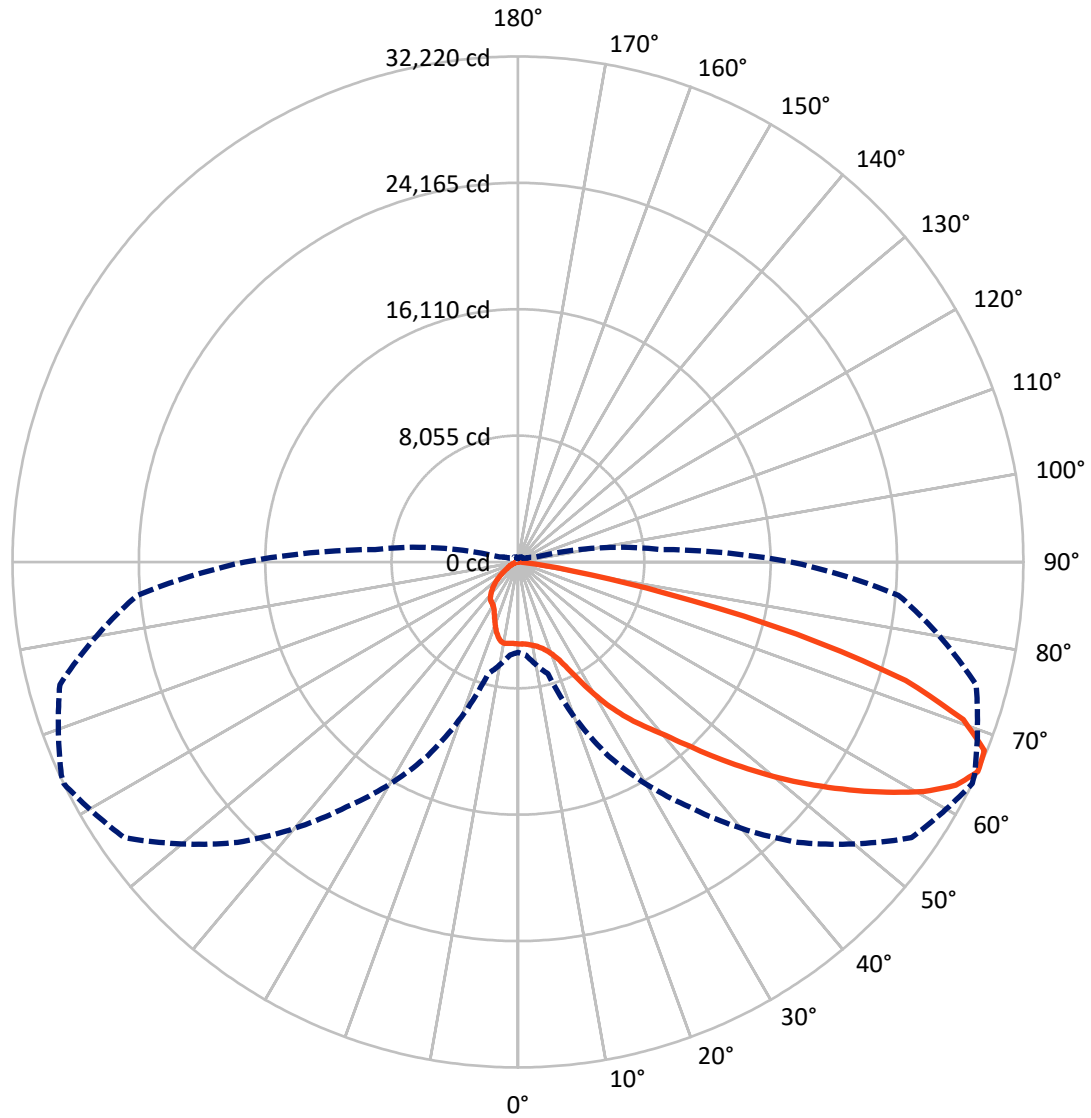
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB8D-950-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6003.6	0.0	6003.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38889.4	0.0	38889.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	44893.0	0.0	44893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	1.1
10°-20°	1306.6	2.9
20°-30°	2475.9	5.5
30°-40°	5010.1	11.2
40°-50°	8534.7	19.0
50°-60°	11606.6	25.9
60°-70°	10899.2	24.3
70°-80°	4366.7	9.7
80°-90°	211.5	0.5
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°	44893.0	100.0
0°-180°	44893.0	100.0

Coefficient of Utilization



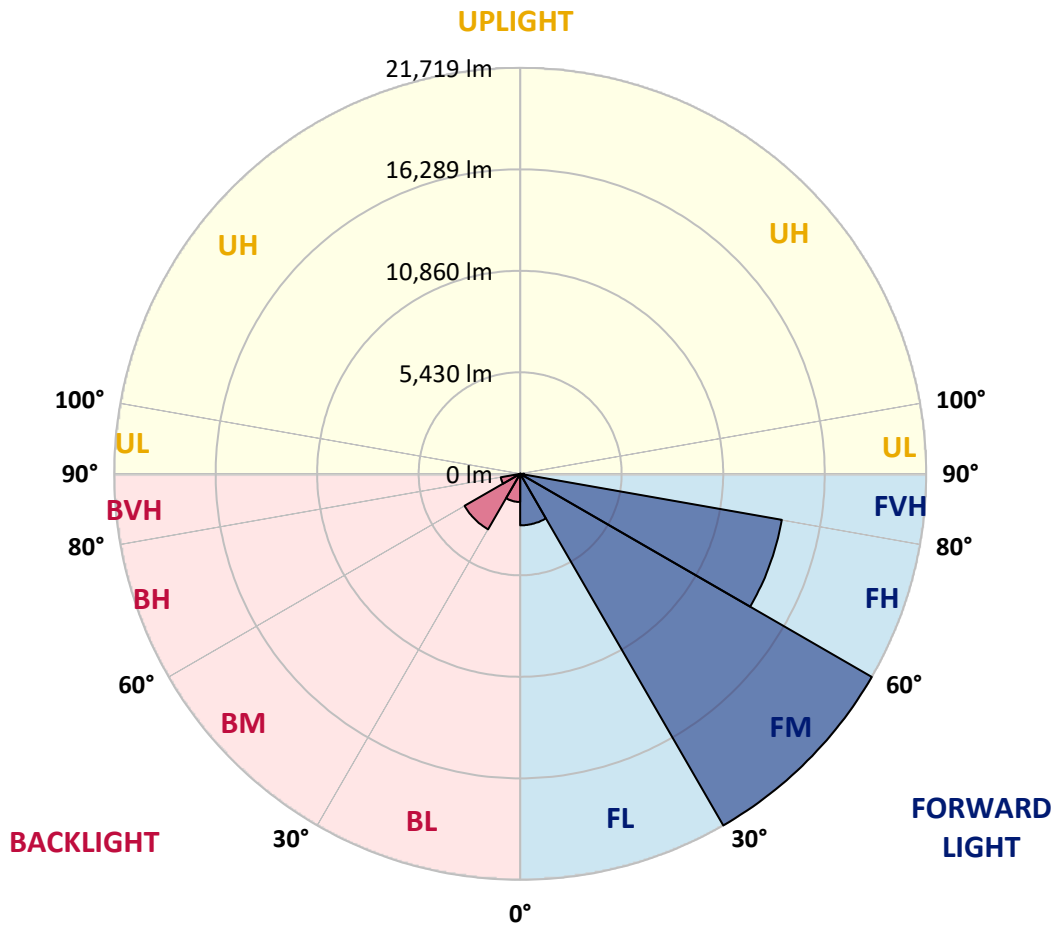
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.9	6.1			
FM (30°-60°)	21719.2	48.4			
FH (60°-80°)	14212.1	31.7			G5
FVH (80°-90°)	201.2	0.4			G2/225
BL (0°-30°)	1507.3	3.4	B3/2500		
BM (30°-60°)	3432.2	7.6	B3/5000		
BH (60°-80°)	1053.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P944146
 CATALOG NUMBER: GALN-SB8D-950-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	5203.5	5239.6	5230.6	5221.5	5218.5	5224.5	5227.5	5224.5	5224.5	5224.5
5°	5104.2	5134.2	5134.2	5155.3	5185.4	5221.5	5248.6	5254.6	5260.6	5269.7
7.5°	4914.6	4938.6	4956.7	5025.9	5101.1	5197.4	5278.7	5320.8	5326.9	5360.0
10°	4785.1	4815.2	4845.3	4917.6	5025.9	5170.4	5308.8	5411.1	5426.2	5504.4
12.5°	4779.1	4809.2	4848.3	4926.6	5053.0	5206.5	5375.0	5522.5	5549.6	5663.9
15°	4842.3	4878.4	4914.6	5010.9	5146.3	5332.9	5513.4	5697.0	5724.1	5886.6
17.5°	4971.7	5019.9	5047.0	5143.3	5287.7	5495.4	5733.1	5943.8	5967.9	6157.5
20°	5227.5	5284.7	5293.8	5372.0	5513.4	5736.2	6019.0	6280.9	6311.0	6527.7
22.5°	5757.2	5838.5	5766.2	5805.4	5931.8	6154.5	6461.4	6792.5	6834.6	7081.4
25°	6690.2	6804.5	6617.9	6551.7	6605.9	6837.6	7222.9	7641.2	7689.3	7888.0
27.5°	8523.0	8375.5	8092.6	7815.7	7653.2	7785.6	8219.0	8736.6	8796.8	8989.4
30°	10536.3	10406.9	10024.7	9410.8	9025.6	9004.5	9404.8	9982.6	10051.8	10235.4
32.5°	12552.7	12429.3	12014.0	11258.6	10590.5	10259.5	10536.3	11177.4	11213.5	11330.9
35°	14536.0	14409.6	13994.3	13220.8	12399.2	11646.9	11592.7	12315.0	12327.0	12450.4
37.5°	16531.3	16426.0	15983.6	15225.2	14415.6	13377.3	12874.7	13392.4	13407.4	13527.8
40°	17954.8	18000.0	17696.0	17109.1	16413.9	15279.3	14313.3	14539.0	14448.7	14650.4
42.5°	19176.7	19267.0	19002.1	18707.2	18303.9	17304.8	16094.9	16055.8	15911.3	16019.7
45°	20233.0	20308.3	20070.5	20001.3	19992.3	19291.0	18042.1	17807.3	17605.7	17584.6
47.5°	20621.3	20765.7	20868.0	21099.8	21551.2	21256.3	20055.5	19691.3	19465.6	19300.1
50°	20768.7	20922.2	21271.3	21945.4	23013.8	23140.2	22059.8	21650.5	21373.6	21072.7
52.5°	20570.1	20844.0	21313.4	22448.0	23997.9	24651.0	23982.9	23624.8	23308.8	22818.2
55°	19399.4	19673.3	20633.3	22442.0	24488.5	25710.4	25800.6	25641.1	25286.0	24512.6
57.5°	16931.6	17337.9	18857.7	21677.6	24479.5	26622.2	27582.3	27696.6	27299.4	26191.9
60°	13512.8	14063.5	15917.4	19983.2	23724.1	27115.8	29144.2	29716.0	29294.7	27847.1
62.5°	9428.8	10066.9	11821.4	17328.8	21996.6	26760.7	30284.8	31341.2	31022.2	29327.8
65°	5751.2	5955.8	7370.3	13636.1	19059.3	25274.0	30636.9	32220.0	32114.6	30233.7
67.5°	3831.1	4002.7	4409.0	9350.6	14794.8	22303.6	29794.3	32066.5	32096.6	30086.2
70°	2308.3	2455.8	2720.6	5438.2	9588.3	17653.9	27185.0	30110.3	30284.8	28115.0
72.5°	951.0	1050.3	1291.1	2464.8	4965.7	11204.5	21647.5	25851.8	26258.1	23639.8
75°	538.7	589.9	758.4	1236.9	2154.8	5221.5	13112.5	18352.1	18951.0	16293.6
77.5°	358.1	382.2	490.6	800.5	1212.8	1781.6	5603.7	9561.3	10704.9	8899.2
80°	240.8	261.8	337.1	535.7	788.5	764.4	1784.6	3542.2	4357.8	3057.7
82.5°	162.5	165.5	240.8	352.1	499.6	370.2	526.7	1101.5	1384.4	884.8
85°	93.3	90.3	177.6	204.6	222.7	153.5	159.5	331.0	433.4	373.2
87.5°	12.0	18.1	69.2	54.2	30.1	33.1	33.1	57.2	84.3	90.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944146
 CATALOG NUMBER: GALN-SB8D-950-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5221.5	0°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
5227.5	2.5°	5227.5	5224.5	5215.5	5206.5	5185.4	5173.4	5179.4	5173.4	5170.4	5173.4
5266.7	5°	5266.7	5257.6	5233.6	5203.5	5161.3	5110.2	5077.1	5028.9	4983.8	4956.7
5372.0	7.5°	5372.0	5363.0	5329.9	5245.6	5110.2	4896.5	4700.9	4529.3	4399.9	4324.7
5540.5	10°	5540.5	5525.5	5474.3	5287.7	4932.6	4466.1	4077.9	3755.9	3545.2	3445.9
5739.2	12.5°	5739.2	5721.1	5630.8	5248.6	4595.5	3867.2	3331.5	2973.4	2777.8	2690.5
5967.9	15°	5973.9	5949.8	5772.3	5062.0	4105.0	3205.1	2714.6	2446.7	2320.3	2242.1
6259.8	17.5°	6265.8	6223.7	5877.6	4782.1	3572.3	2699.5	2335.4	2133.8	2022.4	1947.2
6642.0	20°	6645.0	6575.8	5961.9	4448.1	3081.8	2380.5	2079.6	1911.0	1826.8	1760.6
7183.7	22.5°	7174.7	7075.4	6064.2	4086.9	2735.7	2160.8	1890.0	1766.6	1697.4	1622.1
7939.1	25°	7830.8	7713.4	6190.6	3752.9	2497.9	1971.2	1751.5	1649.2	1568.0	1480.7
8929.3	27.5°	8748.7	8538.0	6341.1	3479.0	2293.3	1808.7	1625.1	1510.8	1417.5	1345.3
10051.8	30°	9771.9	9425.8	6473.5	3313.5	2106.7	1658.2	1459.6	1345.3	1258.0	1206.8
11060.0	32.5°	10741.0	10271.5	6560.8	3241.3	1938.1	1486.7	1279.0	1155.7	1089.4	1074.4
12047.1	35°	11655.9	11035.9	6551.7	3172.0	1787.7	1315.2	1101.5	975.1	923.9	933.0
13109.5	37.5°	12709.2	11851.5	6488.5	3063.7	1664.3	1158.7	948.0	836.6	791.5	794.5
14400.6	40°	13934.1	12793.5	6449.4	2859.0	1528.8	1014.2	821.6	731.3	698.2	686.2
15760.9	42.5°	15240.2	13705.4	6455.4	2627.3	1360.3	884.8	734.3	659.1	629.0	620.0
17274.7	45°	16552.4	14575.1	6464.5	2386.6	1182.7	785.5	671.1	607.9	589.9	577.8
18809.5	47.5°	17786.3	15315.5	6295.9	2127.7	1008.2	710.2	620.0	577.8	562.8	547.7
20350.4	50°	18935.9	15809.0	5889.6	1826.8	869.8	650.1	580.8	550.7	535.7	520.6
21746.8	52.5°	19829.7	15887.3	5218.5	1516.8	773.4	604.9	556.8	529.7	511.6	496.6
22875.4	55°	20227.0	15396.7	4264.5	1227.9	698.2	565.8	532.7	505.6	484.5	469.5
23763.2	57.5°	20124.7	14364.5	3325.5	987.1	626.0	526.7	502.6	484.5	460.5	436.4
24482.5	60°	19622.1	12983.1	2506.9	821.6	559.8	484.5	469.5	454.4	421.3	385.2
24759.3	62.5°	18752.3	11246.6	1787.7	680.2	487.5	436.4	430.4	418.3	370.2	304.0
24350.0	65°	17422.1	9136.9	1203.8	565.8	418.3	382.2	385.2	364.2	301.0	225.7
22851.3	67.5°	15478.0	6681.1	770.4	463.5	349.1	319.0	322.0	310.0	255.8	192.6
20010.3	70°	13001.1	4424.0	502.6	352.1	279.9	246.8	264.8	267.8	216.7	156.5
15357.6	72.5°	9531.2	2612.3	352.1	261.8	204.6	171.5	216.7	222.7	174.6	117.4
9239.2	75°	5432.2	1239.9	264.8	189.6	126.4	120.4	168.5	168.5	120.4	78.2
3999.7	77.5°	2281.2	517.6	186.6	123.4	72.2	69.2	114.4	105.3	60.2	36.1
975.1	80°	659.1	231.7	99.3	60.2	30.1	27.1	45.1	33.1	15.0	6.0
370.2	82.5°	258.8	102.3	39.1	24.1	12.0	12.0	6.0	0.0	0.0	0.0
210.7	85°	153.5	42.1	18.1	9.0	3.0	0.0	0.0	0.0	0.0	0.0
45.1	87.5°	39.1	9.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
5221.5
5185.4
4962.7
4327.7
3436.9
2681.5
2245.1
1941.1
1748.5
1610.1
1471.7
1330.2
1197.8
1083.4
933.0
806.6
683.2
617.0
577.8
547.7
520.6
493.6
466.5
433.4
379.2
297.9
219.7
183.6
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