

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: P957165

Luminaire Tested: **GALN-SB9C-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-835-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61836 lumens
Efficiency: N/A
Efficacy: 137.5 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

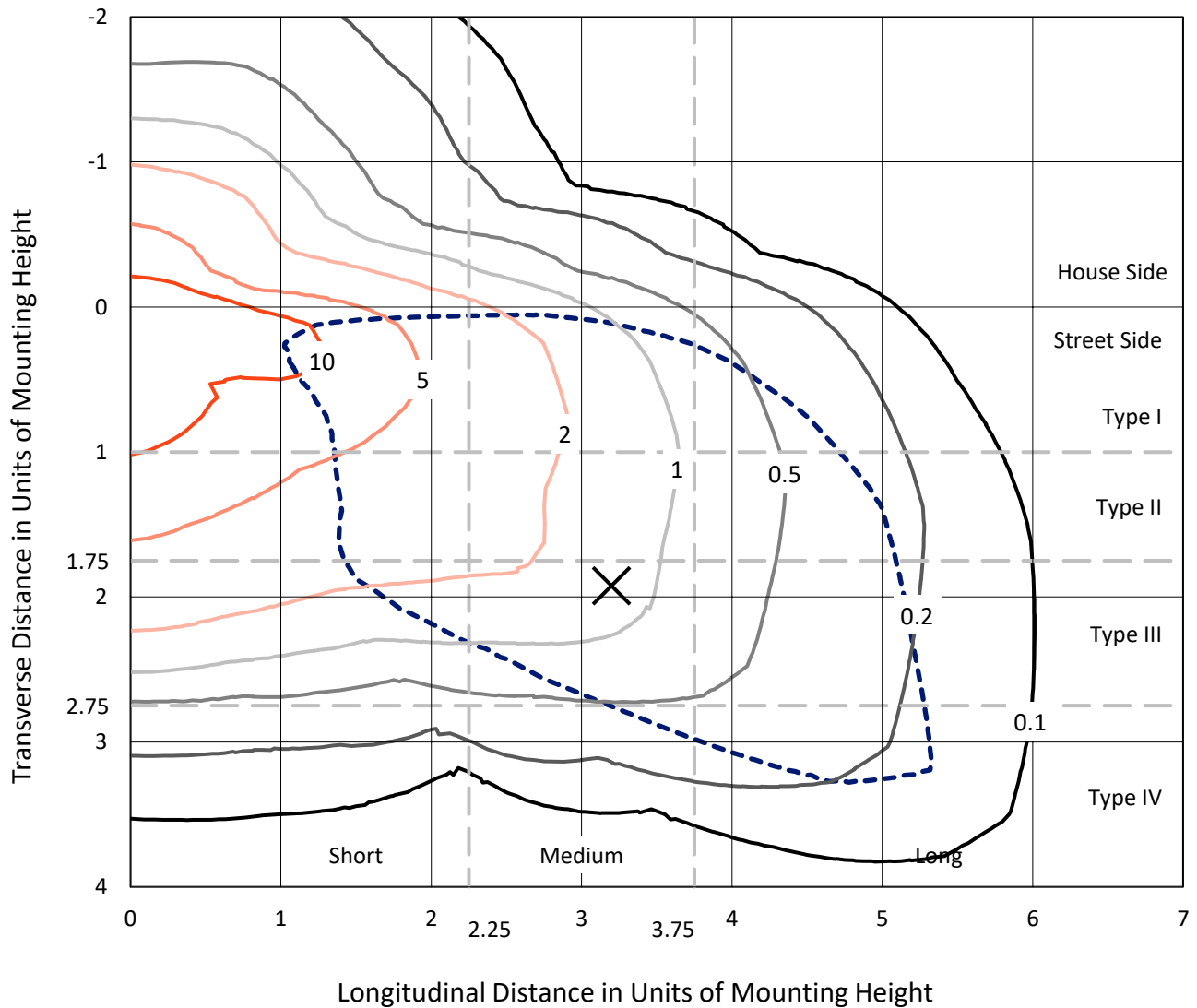
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

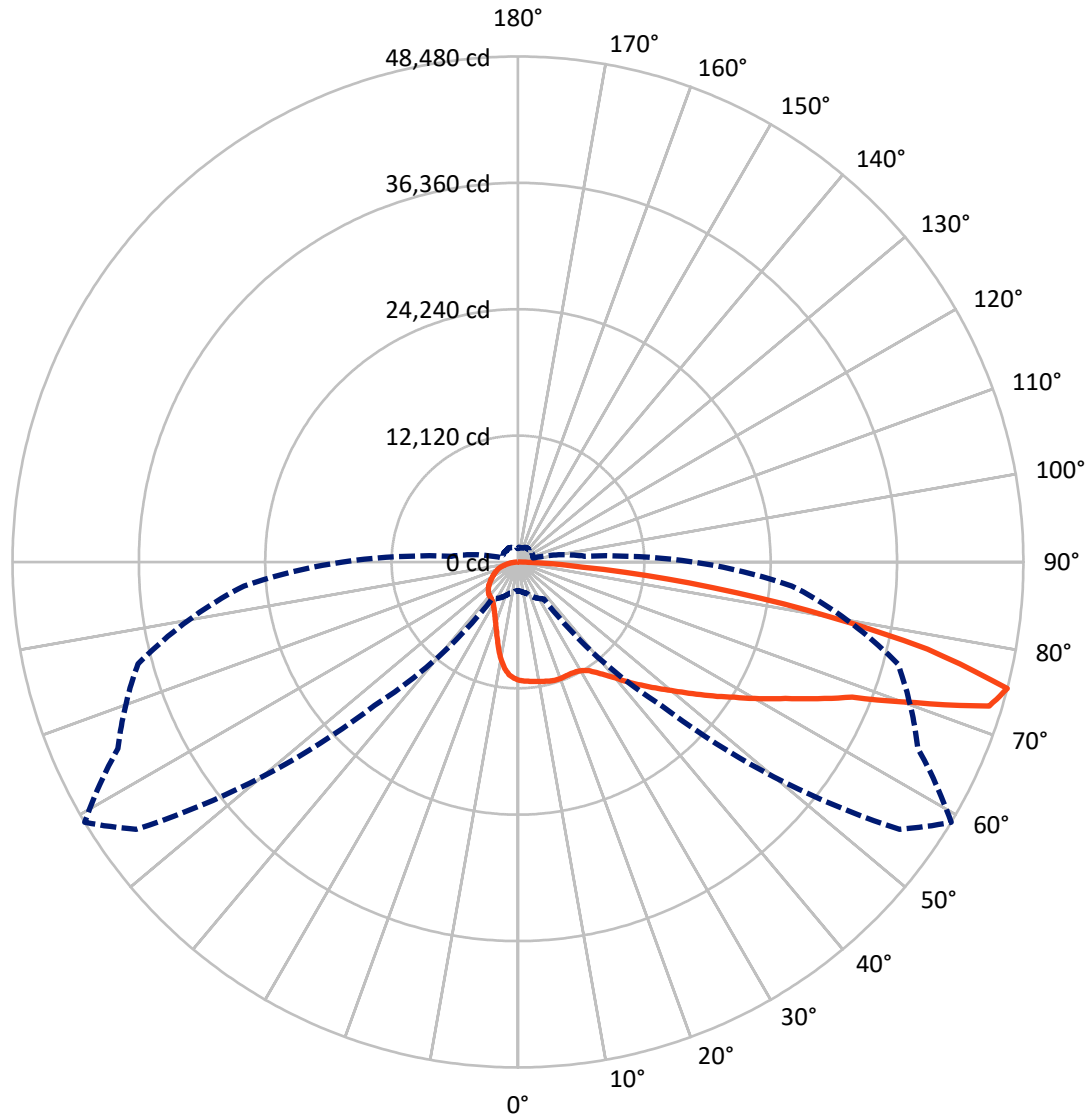
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11597.8	0.0	11597.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	50238.2	0.0	50238.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	61836.0	0.0	61836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.7	1.6
10°-20°	2601.3	4.2
20°-30°	3951.2	6.4
30°-40°	5873.3	9.5
40°-50°	8734.6	14.1
50°-60°	11856.2	19.2
60°-70°	14474.5	23.4
70°-80°	11359.4	18.4
80°-90°	1967.7	3.2
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°	61836.0	100.0
0°-180°	61836.0	100.0

Coefficient of Utilization



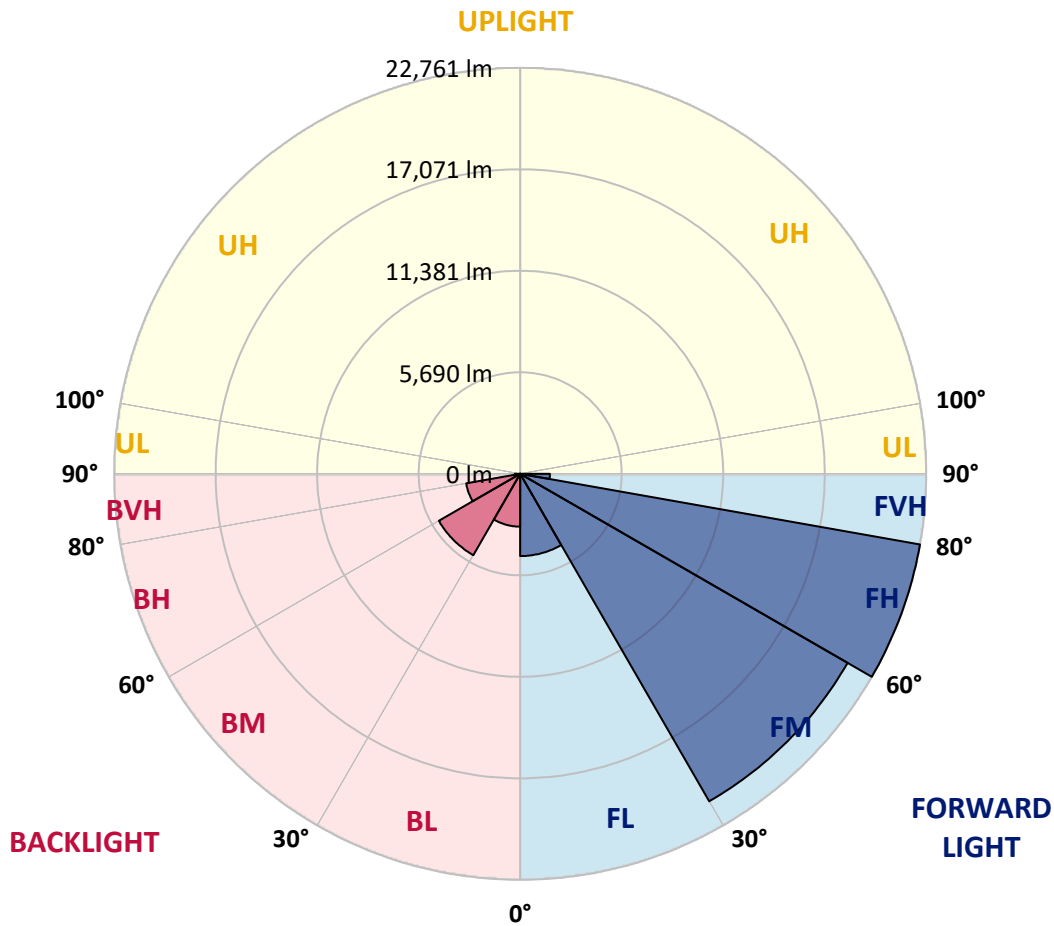
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4610.5	7.5			
FM (30°-60°)	21200.0	34.3			
FH (60°-80°)	22761.2	36.8			G5
FVH (80°-90°)	1666.5	2.7			G5
BL (0°-30°)	2959.6	4.8	B4/5000		
BM (30°-60°)	5264.2	8.5	B4/8500		
BH (60°-80°)	3072.7	5.0	B4/5000		G4/5000
BVH (80°-90°)	301.2	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9
2.5°	11446.3	11406.4	11446.3	11429.7	11423.0	11409.7	11413.1	11436.3	11423.0	11439.7
5°	11369.8	11346.5	11386.5	11376.5	11419.7	11426.4	11469.6	11496.2	11512.9	11516.2
7.5°	11243.4	11220.1	11276.7	11323.2	11416.4	11443.0	11532.8	11576.1	11599.3	11639.3
10°	10781.0	10771.1	10910.8	11087.1	11306.6	11443.0	11579.4	11652.6	11689.2	11795.6
12.5°	9962.7	9976.0	10159.0	10498.3	10937.4	11376.5	11632.6	11739.1	11795.6	11928.7
15°	9181.0	9177.7	9377.3	9739.9	10355.3	11083.7	11659.2	11842.2	11938.6	12134.9
17.5°	8728.6	8715.3	8855.0	9131.1	9703.3	10634.7	11592.7	11898.7	12105.0	12351.1
20°	8645.5	8618.8	8692.0	8828.4	9234.2	10142.4	11419.7	11898.7	12238.0	12557.4
22.5°	8948.2	8904.9	8875.0	8858.3	9038.0	9736.5	11223.5	11858.8	12434.3	12853.4
25°	9556.9	9490.4	9337.4	9187.7	9134.4	9553.6	11050.5	11848.8	12727.0	13252.6
27.5°	10541.5	10458.4	10149.0	9789.8	9467.1	9646.7	10974.0	11908.7	13049.7	13675.1
30°	11762.3	11672.5	11283.3	10731.1	10152.3	9992.7	11070.4	12085.0	13462.2	14237.2
32.5°	12856.7	12756.9	12424.3	11862.1	11080.4	10591.4	11376.5	12421.0	14110.8	15018.9
35°	13828.1	13711.6	13412.3	12893.3	12218.1	11433.0	11928.7	13016.4	15032.2	16289.6
37.5°	14779.4	14643.0	14317.1	13768.2	13295.8	12554.0	12690.4	13781.5	16256.4	17833.1
40°	15843.9	15647.6	15251.8	14709.6	14250.5	13868.0	13691.7	14719.6	17500.5	19556.2
42.5°	16875.1	16688.8	16216.5	15754.1	15178.6	15068.8	14852.6	15817.3	18861.0	21449.0
45°	17986.1	17763.3	17191.1	16605.7	16243.1	15867.2	15977.0	16915.0	20194.9	23378.3
47.5°	19027.3	18777.8	18102.6	17450.6	17251.0	16539.1	17008.2	18122.5	21582.0	25334.3
50°	19589.5	19343.3	18781.2	18192.4	18036.0	17367.4	18125.8	19449.8	23035.7	27283.6
52.5°	20058.5	19792.4	19057.3	18731.3	18684.7	18268.9	19503.0	20966.6	24489.4	29006.7
55°	20557.5	20261.4	19323.4	19030.6	19243.5	19280.1	21136.3	22686.4	26026.2	30686.5
57.5°	21133.0	20757.1	19579.5	19283.5	19789.1	20464.3	23012.4	24469.4	27536.4	32243.3
60°	21675.2	21296.0	20071.8	19686.0	20377.9	21838.2	25164.6	26628.3	29246.2	33630.4
62.5°	21781.6	21468.9	20464.3	20461.0	21176.2	23441.5	27712.7	28807.1	30739.8	35000.9
65°	19938.8	19742.5	19147.1	20431.1	22320.5	25750.1	30550.2	31594.7	32639.2	36198.5
67.5°	15175.3	15201.9	15158.6	17636.9	21395.8	29066.6	34658.3	34578.5	34984.3	37542.4
70°	6939.0	7095.3	8113.2	12174.8	17141.2	29449.1	41450.9	40416.4	37928.2	39282.1
72.5°	3748.9	3868.7	4284.5	5897.8	10305.4	26182.5	46527.1	47262.3	41843.5	40453.0
75°	2751.0	2817.5	3106.9	3748.9	4327.7	19459.8	44707.5	48479.7	42332.4	37722.0
77.5°	2059.1	2089.0	2325.2	2970.5	2215.4	10258.8	35722.8	40150.3	36238.4	30992.6
80°	1493.6	1526.8	1703.1	2228.7	1553.5	3752.2	24529.3	28181.7	24818.7	19755.8
82.5°	1031.2	1044.5	1121.0	1516.9	1084.4	1457.0	13917.9	16525.8	13854.7	6932.3
85°	622.0	638.7	671.9	884.8	615.4	691.9	6007.6	6213.8	4141.4	1656.6
87.5°	256.1	272.8	299.4	372.6	242.8	192.9	991.3	1244.1	775.1	485.7
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°
11349.9	0°	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9	11349.9
11383.1	2.5°	11366.5	11343.2	11280.0	11193.5	11113.7	11013.9	10970.6	10934.1	10900.8	10837.6
11472.9	5°	11436.3	11373.1	11203.5	10984.0	10734.5	10461.7	10195.6	10012.6	9856.3	9739.9
11576.1	7.5°	11542.8	11423.0	11113.7	10664.6	10092.5	9507.0	8978.1	8602.2	8319.5	8216.3
11722.4	10°	11652.6	11509.5	10970.6	10178.9	9191.0	8289.5	7587.6	7201.8	6975.6	6902.4
11895.4	12.5°	11782.3	11572.7	10747.8	9503.7	8183.1	7195.1	6583.1	6356.9	6240.4	6200.5
12108.3	15°	11971.9	11626.0	10411.8	8658.8	7221.7	6396.8	6000.9	5844.6	5784.7	5781.4
12327.8	17.5°	12114.9	11635.9	9889.5	7754.0	6483.3	5914.4	5588.4	5528.6	5568.5	5628.4
12544.1	20°	12274.6	11546.1	9204.3	6929.0	5964.3	5492.0	5355.6	5395.5	5492.0	5578.5
12830.1	22.5°	12387.7	11383.1	8376.0	6287.0	5515.3	5249.1	5242.5	5325.7	5378.9	5422.1
13166.1	25°	12487.5	11107.0	7497.8	5748.1	5146.0	5102.8	5176.0	5149.4	5112.8	5149.4
13502.1	27.5°	12560.7	10671.3	6712.8	5275.8	4886.6	5003.0	4959.7	4899.9	4896.5	4916.5
13897.9	30°	12537.4	10089.1	6067.5	4826.7	4703.6	4816.7	4713.6	4703.6	4693.6	4703.6
14493.4	32.5°	12537.4	9427.2	5571.8	4517.3	4587.2	4543.9	4534.0	4510.7	4470.8	4467.4
15301.7	35°	12607.3	8765.2	5146.0	4351.0	4490.7	4387.6	4394.2	4337.7	4254.5	4214.6
16372.8	37.5°	12750.3	8233.0	4723.6	4271.2	4321.1	4317.7	4291.1	4194.7	4048.3	3921.9
17710.0	40°	13096.2	8076.6	4434.2	4234.6	4241.2	4281.1	4211.3	4025.0	3692.4	3486.1
19067.2	42.5°	13638.5	8339.4	4371.0	4144.8	4188.0	4227.9	4091.5	3659.1	3422.9	3299.8
20491.0	45°	14327.0	8798.5	4507.3	4015.0	4061.6	4131.5	3725.6	3519.4	3412.9	3416.3
21901.4	47.5°	15198.6	9280.8	4760.2	3901.9	3878.6	3918.6	3482.8	3356.4	3210.0	3246.6
23255.2	50°	16206.5	9769.8	4999.7	3748.9	3675.7	3546.0	3326.5	3206.7	3020.4	2933.9
24562.5	52.5°	17297.6	10242.2	5096.1	3562.6	3456.2	3306.5	3220.0	3073.6	2847.4	2704.4
25796.6	55°	18332.1	10671.3	4989.7	3339.8	3236.6	3120.2	3106.9	3017.1	2774.3	2574.7
26894.4	57.5°	19310.1	11030.5	4723.6	3113.6	3013.8	2943.9	3033.7	2990.5	2684.4	2428.3
27932.2	60°	20138.4	11276.7	4337.7	2884.0	2814.2	2777.6	2914.0	2900.7	2558.0	2272.0
28863.6	62.5°	20797.0	11373.1	3911.9	2664.5	2647.9	2581.3	2747.7	2747.7	2398.4	2119.0
29681.9	65°	21312.6	11280.0	3479.5	2448.3	2481.5	2381.7	2544.7	2524.8	2228.7	1982.6
30623.3	67.5°	21768.3	10974.0	3000.5	2235.4	2311.9	2185.5	2331.8	2285.3	2042.4	1846.2
31438.3	70°	21971.2	10262.1	2454.9	2022.5	2115.6	1992.5	2119.0	2032.5	1832.9	1699.8
30543.5	72.5°	20341.3	8529.0	1932.7	1799.6	1879.4	1779.7	1889.4	1789.6	1606.7	1546.8
26375.5	75°	16828.5	6400.1	1486.9	1556.8	1616.7	1540.1	1613.3	1540.1	1373.8	1417.1
19483.0	77.5°	12221.4	4321.1	1137.6	1300.6	1327.3	1287.3	1350.5	1267.4	1117.7	1107.7
9709.9	80°	6077.4	2531.4	891.5	1027.9	1017.9	991.3	1064.5	1024.5	898.1	951.4
2621.2	82.5°	1759.7	1084.4	648.7	721.8	701.9	708.5	761.8	781.7	1170.9	1160.9
815.0	85°	552.2	425.8	389.2	402.5	382.5	392.5	449.1	891.5	825.0	482.3
252.8	87.5°	143.0	146.4	96.5	103.1	106.4	126.4	143.0	542.2	259.5	169.6
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°
11349.9
10807.6
9643.4
8036.7
6789.3
6210.5
5794.7
5651.6
5608.4
5445.4
5172.6
4949.8
4740.2
4510.7
4254.5
3965.1
3512.7
3299.8
3432.9
3339.8
2957.2
2701.1
2574.7
2415.0
2262.0
2109.0
1969.3
1832.9
1673.2
1496.9
1294.0
1057.8
941.4
1187.5
522.3
179.6
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