

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: P943922

Luminaire Tested: **GALN-SB8C-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57419 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

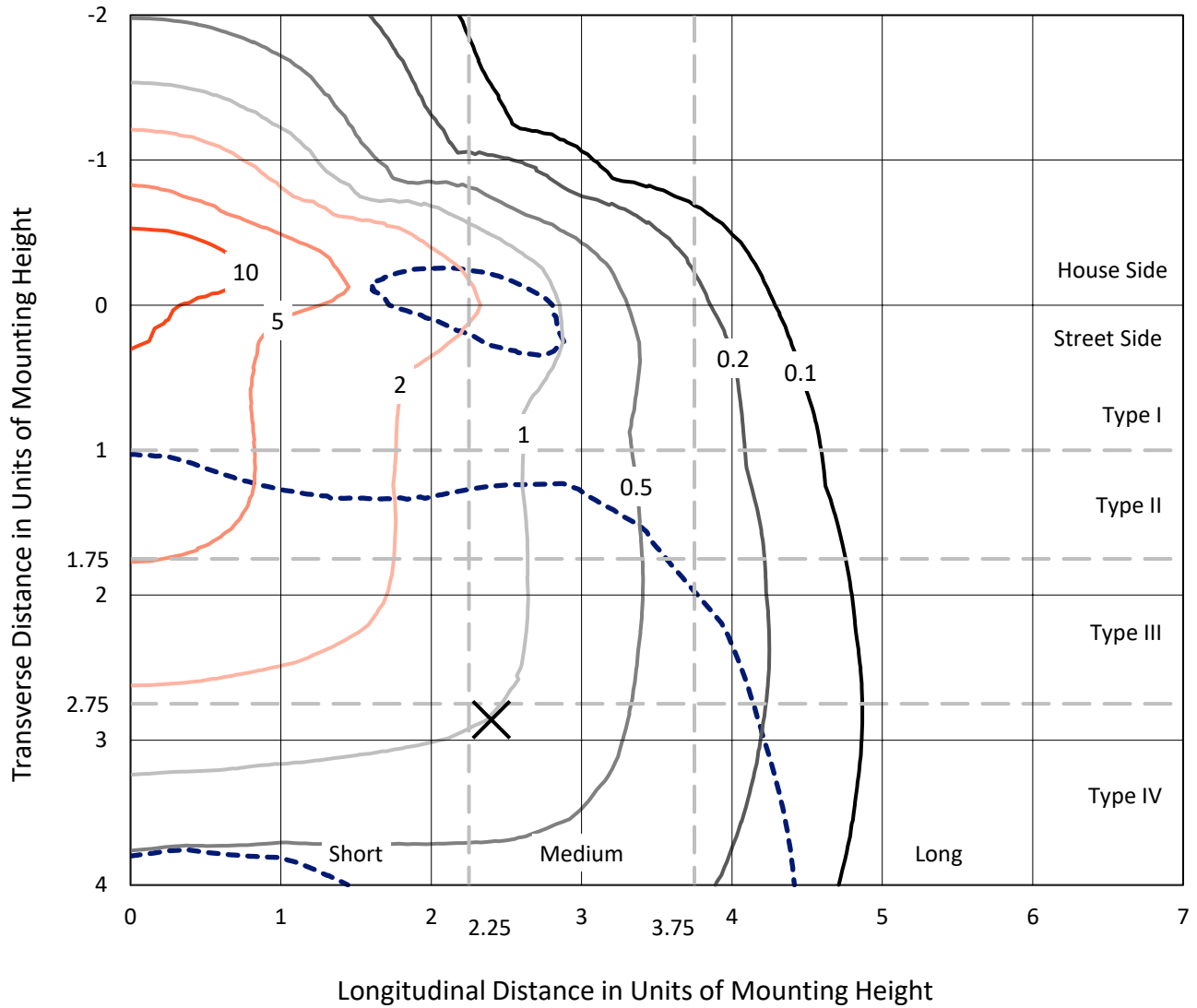
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

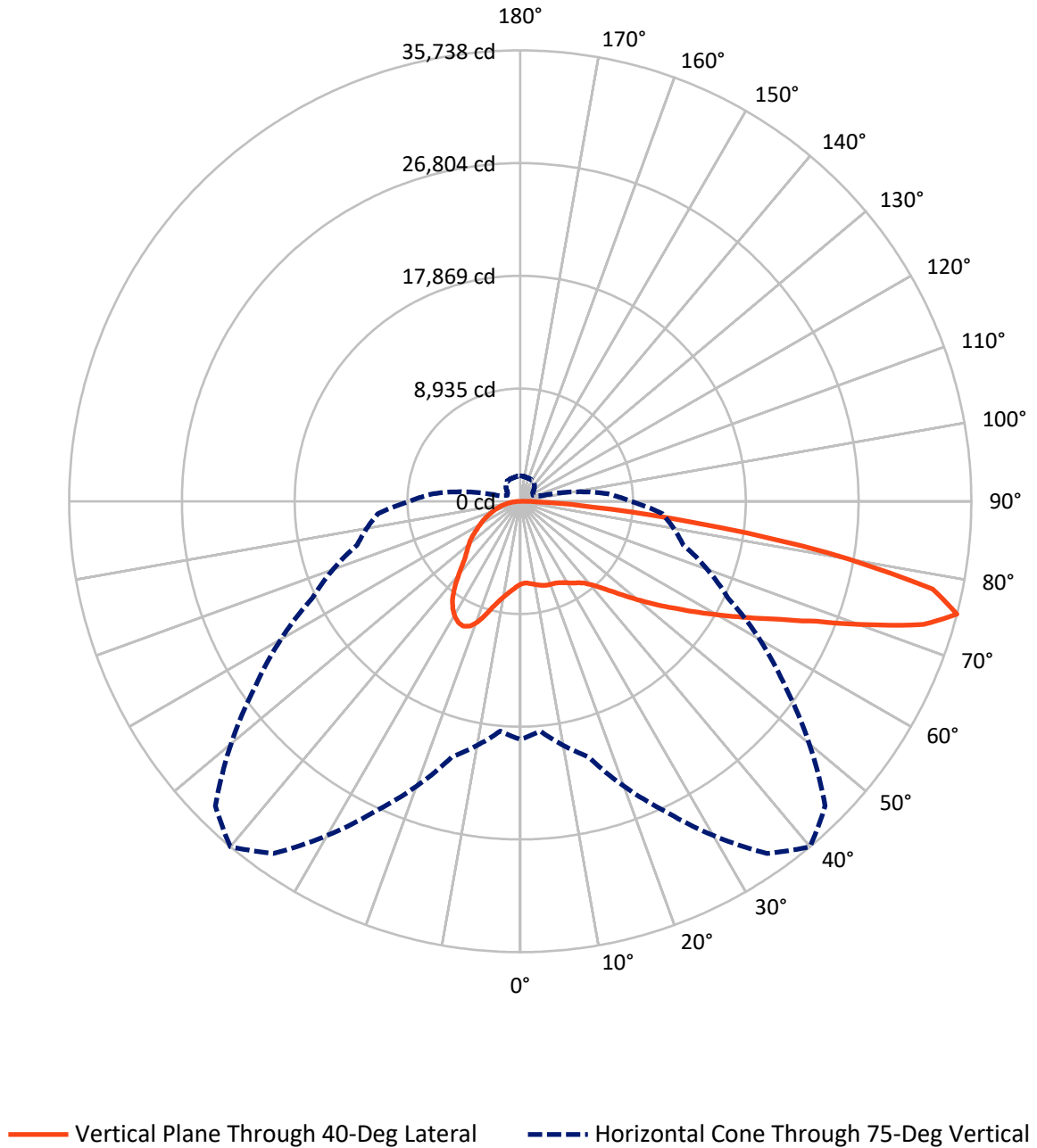
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17790.3	0.0	17790.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	39628.7	0.0	39628.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	57419.0	0.0	57419.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.4	1.1
10°-20°	2200.5	3.8
20°-30°	4017.9	7.0
30°-40°	5698.5	9.9
40°-50°	7694.7	13.4
50°-60°	10351.5	18.0
60°-70°	13138.4	22.9
70°-80°	11923.9	20.8
80°-90°	1738.1	3.0
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°	57419.0	100.0
0°-180°	57419.0	100.0



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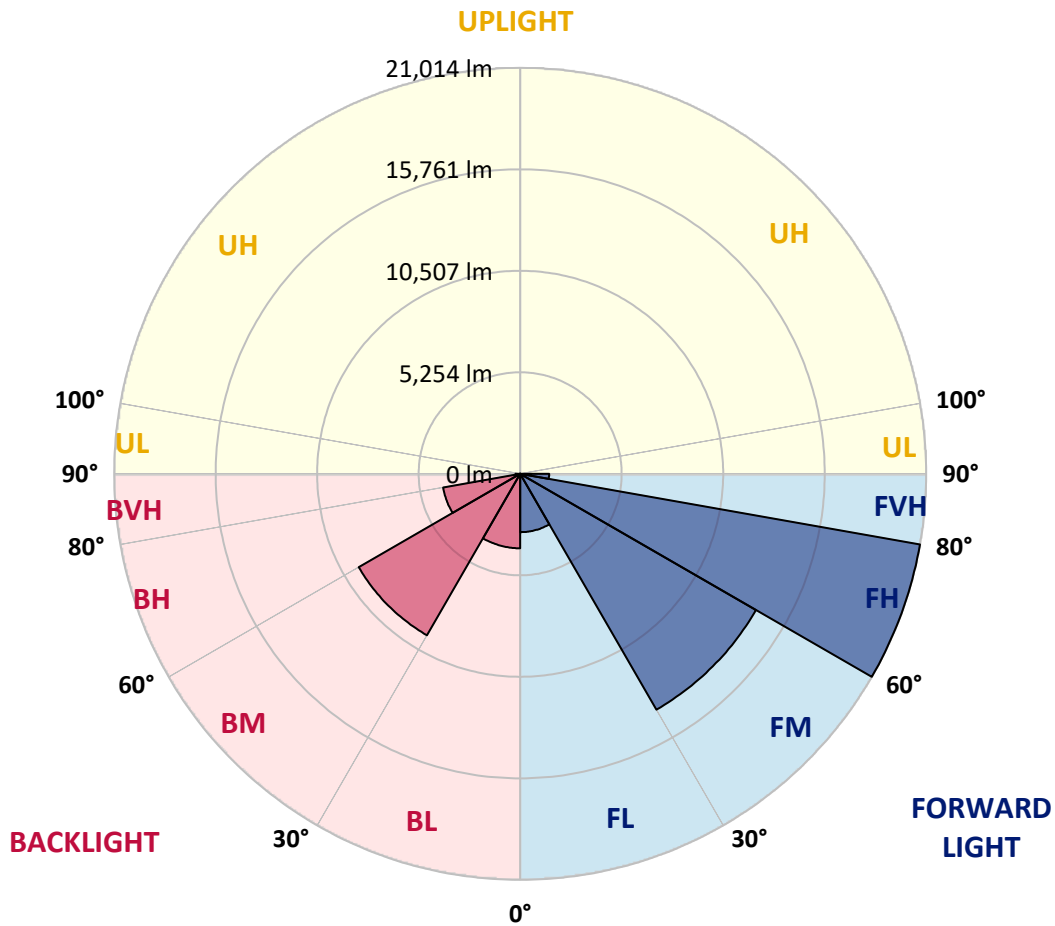
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3020.3	5.3			
FM (30°-60°)	14095.1	24.5			
FH (60°-80°)	21014.5	36.6			G5
FVH (80°-90°)	1498.8	2.6			G5
BL (0°-30°)	3853.5	6.7	B4/5000		
BM (30°-60°)	9649.6	16.8	B5		
BH (60°-80°)	4047.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	239.3	0.4			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9
2.5°	6465.4	6502.0	6492.8	6480.7	6480.7	6483.7	6480.7	6502.0	6523.3	6544.6
5°	6532.4	6569.0	6550.7	6535.5	6523.3	6520.3	6511.1	6508.1	6520.3	6547.7
7.5°	6663.4	6699.9	6672.5	6645.1	6620.8	6608.6	6596.4	6578.1	6569.0	6584.2
10°	6809.6	6846.1	6812.6	6763.9	6724.3	6709.1	6696.9	6678.6	6666.4	6675.6
12.5°	6955.8	6992.3	6946.6	6879.6	6827.8	6818.7	6803.5	6797.4	6794.3	6791.3
15°	7092.8	7123.3	7065.4	6986.2	6931.4	6916.2	6900.9	6910.1	6925.3	6943.6
17.5°	7199.4	7229.8	7144.6	7041.0	6989.3	6983.2	6974.0	7004.5	7047.1	7092.8
20°	7296.8	7327.3	7217.7	7077.6	7016.7	7016.7	7019.7	7083.7	7144.6	7211.6
22.5°	7433.9	7458.2	7324.3	7132.4	7044.1	7050.2	7074.5	7138.5	7214.6	7306.0
25°	7637.9	7656.2	7491.7	7235.9	7135.4	7153.7	7175.0	7205.5	7278.6	7385.2
27.5°	7966.8	7982.1	7765.8	7418.7	7266.4	7296.8	7327.3	7306.0	7339.5	7430.8
30°	8429.7	8438.9	8164.8	7704.9	7488.7	7503.9	7510.0	7421.7	7357.8	7430.8
32.5°	8977.9	8974.9	8649.0	8052.1	7741.5	7726.2	7674.5	7500.9	7351.7	7415.6
35°	9827.6	9794.1	9373.8	8539.4	8027.7	7933.3	7811.5	7589.2	7382.1	7400.4
37.5°	11234.6	11131.0	10549.4	9337.3	8454.1	8213.5	8033.8	7732.3	7449.1	7394.3
40°	12821.2	12690.3	12050.8	10430.6	9093.6	8706.9	8417.6	7936.4	7558.7	7421.7
42.5°	14703.3	14517.5	13829.3	11718.8	9903.7	9343.4	8907.9	8195.2	7720.2	7510.0
45°	17014.8	16768.1	15793.6	13171.5	10923.9	10177.8	9596.1	8588.1	7966.8	7680.6
47.5°	19350.6	19411.5	18025.9	14834.3	12148.2	11207.2	10458.0	9178.9	8326.2	7954.7
50°	21832.7	21875.3	20246.0	16676.8	13536.9	12370.5	11426.4	9839.8	8825.6	8344.5
52.5°	23769.6	23775.6	22262.1	18604.5	14983.5	13649.6	12471.0	10595.0	9404.3	8862.2
55°	24981.6	24966.4	23675.1	20428.7	16646.3	14992.6	13628.3	11453.8	10110.8	9471.3
57.5°	25861.8	25816.1	24649.7	21997.1	18418.7	16579.3	14937.8	12428.4	10945.3	10196.1
60°	26196.8	26169.3	25310.5	23352.3	20282.5	18333.5	16448.3	13518.6	11892.4	11051.9
62.5°	26324.7	26376.4	25959.2	24664.9	22277.3	20276.4	18108.1	14822.1	12958.3	12020.3
65°	26775.4	26869.8	26784.5	26382.5	24530.9	22551.4	20309.9	16372.2	14121.6	13058.8
67.5°	27667.7	27762.1	27798.7	28438.2	27284.0	25386.7	23056.9	18303.0	15482.9	14136.9
70°	27646.4	27619.0	28264.6	30073.6	30731.4	29312.2	26760.2	20678.4	17106.2	15032.2
72.5°	25164.4	24945.1	26470.8	30055.3	33600.2	33411.4	31282.6	23742.1	18507.1	15141.9
75°	18878.6	18293.9	20989.1	27086.0	34078.3	35738.1	34157.5	25642.5	18175.1	13378.6
77.5°	8073.4	7485.7	10662.0	20051.1	30499.9	33408.3	31520.2	22371.7	14508.4	8847.0
80°	2113.5	2110.5	3222.1	9090.6	20742.4	24671.0	21643.8	14447.5	8289.7	3161.2
82.5°	874.0	852.7	1184.7	3535.7	10135.2	13844.5	11298.5	6444.1	2993.7	855.8
85°	325.9	322.8	575.6	1221.2	3575.3	5710.2	4132.6	1647.6	746.1	417.2
87.5°	91.4	88.3	124.9	423.3	871.0	1321.7	706.5	271.0	210.1	164.5
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°
6565.9	0°	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9	6565.9
6578.1	2.5°	6587.3	6602.5	6629.9	6651.2	6678.6	6709.1	6751.7	6779.1	6806.5	6824.8
6593.3	5°	6614.7	6648.2	6718.2	6788.3	6870.5	6946.6	7034.9	7098.9	7150.7	7165.9
6648.2	7.5°	6675.6	6730.4	6849.2	6967.9	7098.9	7223.8	7351.7	7461.3	7549.6	7583.1
6745.6	10°	6782.2	6855.3	7022.8	7190.3	7363.8	7555.7	7720.2	7878.5	8003.4	8055.2
6861.3	12.5°	6916.2	7007.5	7226.8	7458.2	7698.8	7963.8	8177.0	8371.9	8527.2	8597.2
7022.8	15°	7089.8	7208.5	7488.7	7799.3	8152.6	8521.1	8792.1	9008.4	9182.0	9267.2
7190.3	17.5°	7278.6	7436.9	7790.2	8259.2	8764.7	9249.0	9565.7	9724.0	9903.7	9986.0
7345.6	20°	7461.3	7656.2	8161.7	8843.9	9517.0	10031.6	10287.5	10330.1	10342.3	10351.4
7491.7	22.5°	7650.1	7912.0	8627.7	9580.9	10302.7	10659.0	10695.5	10512.8	10257.0	10138.2
7634.9	25°	7857.2	8204.4	9236.8	10394.0	10978.8	11021.4	10741.2	10296.6	9812.4	9590.0
7750.6	27.5°	8058.2	8542.4	9967.7	11170.6	11466.0	11091.4	10488.4	9858.0	9273.3	9038.8
7832.8	30°	8259.2	8929.2	10774.7	11849.8	11688.3	10917.9	10089.5	9386.0	8798.2	8551.6
7905.9	32.5°	8463.2	9379.9	11703.6	12340.1	11648.8	10549.4	9593.1	8856.1	8338.4	8079.5
7969.9	35°	8694.7	9934.2	12583.7	12608.1	11383.8	10007.3	8938.3	8222.7	7771.9	7564.8
8046.0	37.5°	8996.2	10637.7	13360.3	12675.1	10920.9	9212.4	8125.2	7473.5	7101.9	7007.5
8158.7	40°	9370.8	11484.3	13954.1	12568.5	10235.7	8247.0	7235.9	6715.2	6505.0	6526.3
8311.0	42.5°	9858.0	12431.4	14371.4	12294.4	9282.5	7251.2	6456.3	6224.9	6325.4	6410.6
8539.4	45°	10491.5	13415.1	14630.2	11828.4	8204.4	6407.6	5996.4	6051.3	6127.4	6136.5
8907.9	47.5°	11301.6	14411.0	14800.8	11124.9	7105.0	5813.7	5704.1	5716.3	5701.0	5637.1
9459.1	50°	12312.7	15379.4	14953.0	10193.0	6170.0	5442.2	5296.0	5253.4	5043.2	4836.1
10193.0	52.5°	13463.8	16268.7	15017.0	9035.8	5442.2	5131.5	4894.0	4626.0	4233.1	4169.2
11115.8	55°	14742.9	17090.9	14852.5	7613.6	4830.0	4732.6	4373.2	4050.4	4007.8	3953.0
12330.9	57.5°	16271.7	17977.2	14517.5	6026.9	4202.7	4266.6	3916.4	3953.0	3876.8	3791.6
13893.2	60°	17943.7	18893.8	13929.8	4580.3	3554.0	3685.0	3797.6	3794.6	3773.3	3703.2
15540.8	62.5°	19448.1	19496.8	12772.5	3508.3	2984.5	3234.2	3541.8	3538.8	3520.5	3480.9
17261.5	65°	20343.4	19405.5	10841.7	2762.2	2515.5	2862.7	3194.7	3219.0	3222.1	3219.0
18555.8	67.5°	20185.1	18336.5	8192.2	2198.8	2128.8	2485.1	2850.5	2884.0	2908.4	2914.5
18720.2	70°	18394.4	15988.5	5341.7	1754.2	1784.6	2153.1	2524.7	2558.2	2579.5	2603.8
16244.3	72.5°	14337.9	11755.3	3057.6	1419.2	1483.1	1866.8	2201.8	2241.4	2253.6	2299.3
11304.6	75°	8737.3	6913.1	1650.6	1117.7	1218.2	1595.8	1882.1	1927.8	1949.1	2003.9
5551.8	77.5°	4154.0	2993.7	941.0	871.0	980.6	1303.4	1589.7	1641.5	1583.6	1614.1
1531.8	80°	1403.9	1111.6	593.9	663.9	749.2	1017.2	1273.0	1324.8	1202.9	1196.9
508.6	82.5°	490.3	450.7	377.6	441.6	484.2	727.9	962.4	1029.4	895.4	892.3
228.4	85°	191.9	182.7	210.1	240.6	289.3	447.7	633.4	666.9	551.2	444.6
67.0	87.5°	39.6	42.6	51.8	54.8	88.3	155.3	228.4	280.2	222.3	188.8
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°
6565.9
6812.6
7172.0
7586.2
8058.2
8597.2
9261.1
9982.9
10375.8
10171.7
9623.5
9066.2
8579.0
8113.0
7610.5
7074.5
6599.4
6489.8
6197.4
5685.8
4863.5
4190.5
3962.1
3776.3
3678.9
3465.7
3219.0
2920.6
2616.0
2317.6
2010.0
1589.7
1184.7
849.7
438.5
173.6
0.0

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