

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: P954651

Luminaire Tested: **GALN-SB7D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66233 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

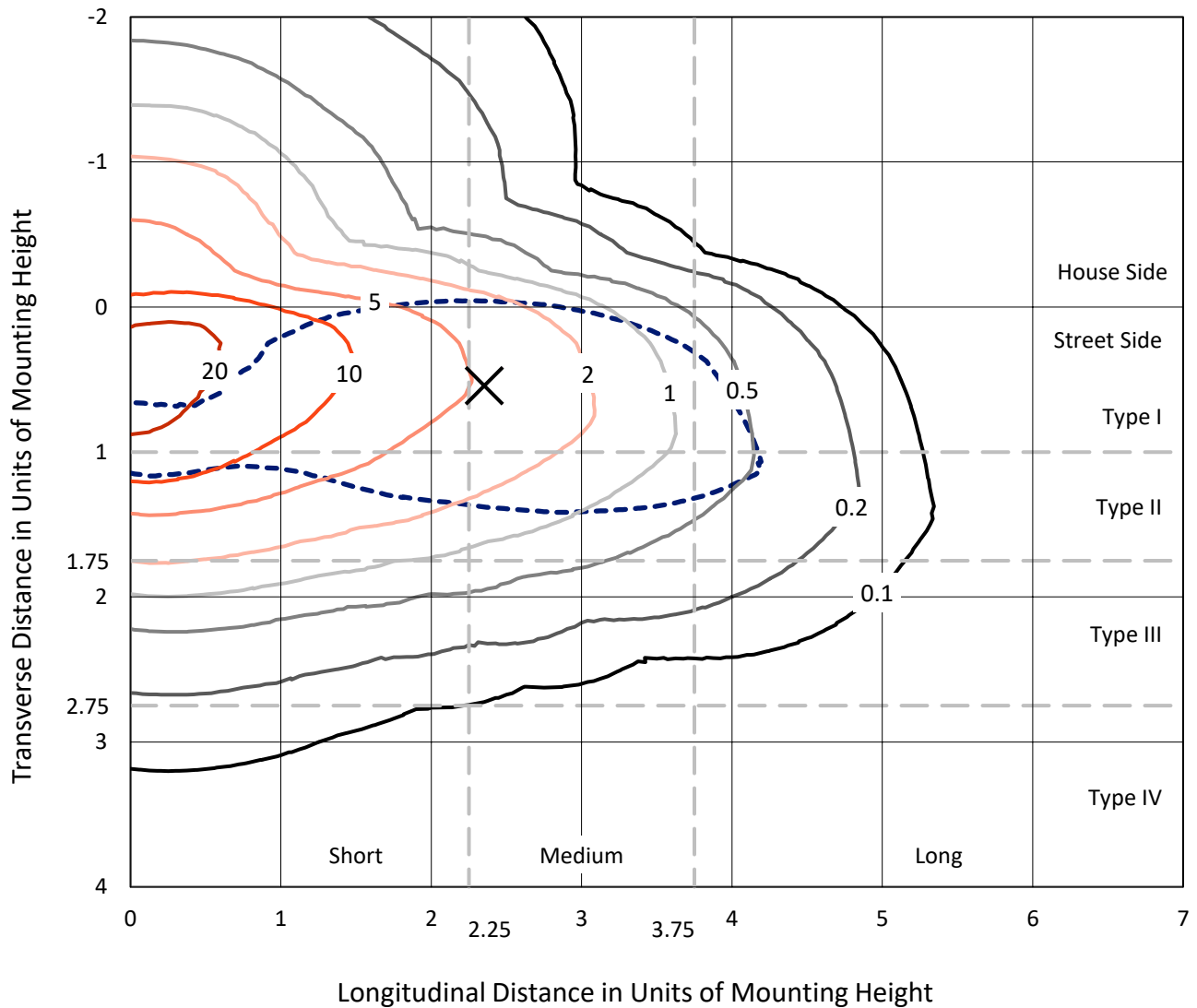
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

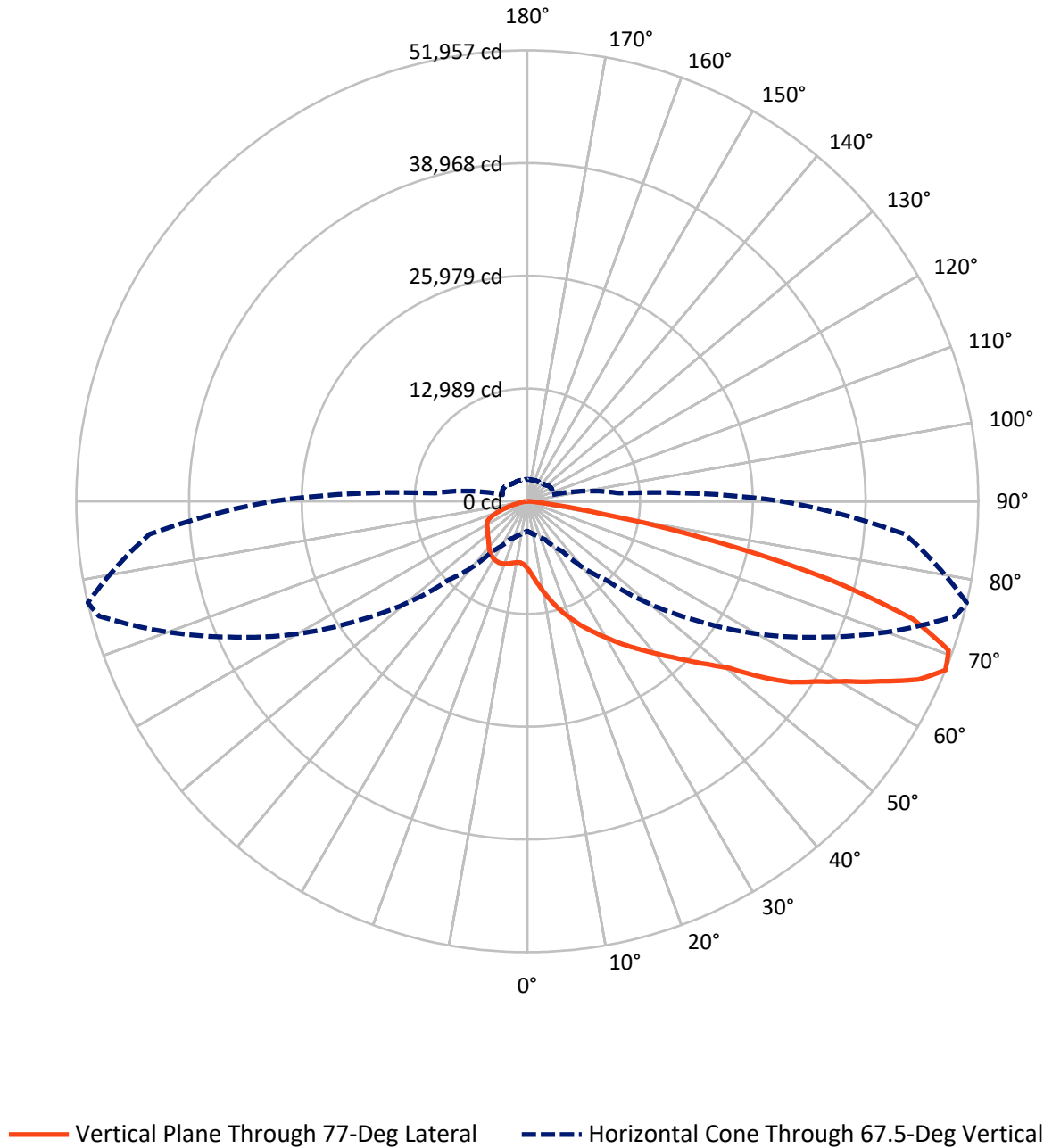
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12528.6	0.0	12528.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	53704.4	0.0	53704.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	66233.0	0.0	66233.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.0	1.3
10°-20°	2992.5	4.5
20°-30°	5650.1	8.5
30°-40°	9102.3	13.7
40°-50°	12450.3	18.8
50°-60°	14044.0	21.2
60°-70°	13108.4	19.8
70°-80°	7185.6	10.8
80°-90°	866.8	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°	66233.0	100.0
0°-180°	66233.0	100.0



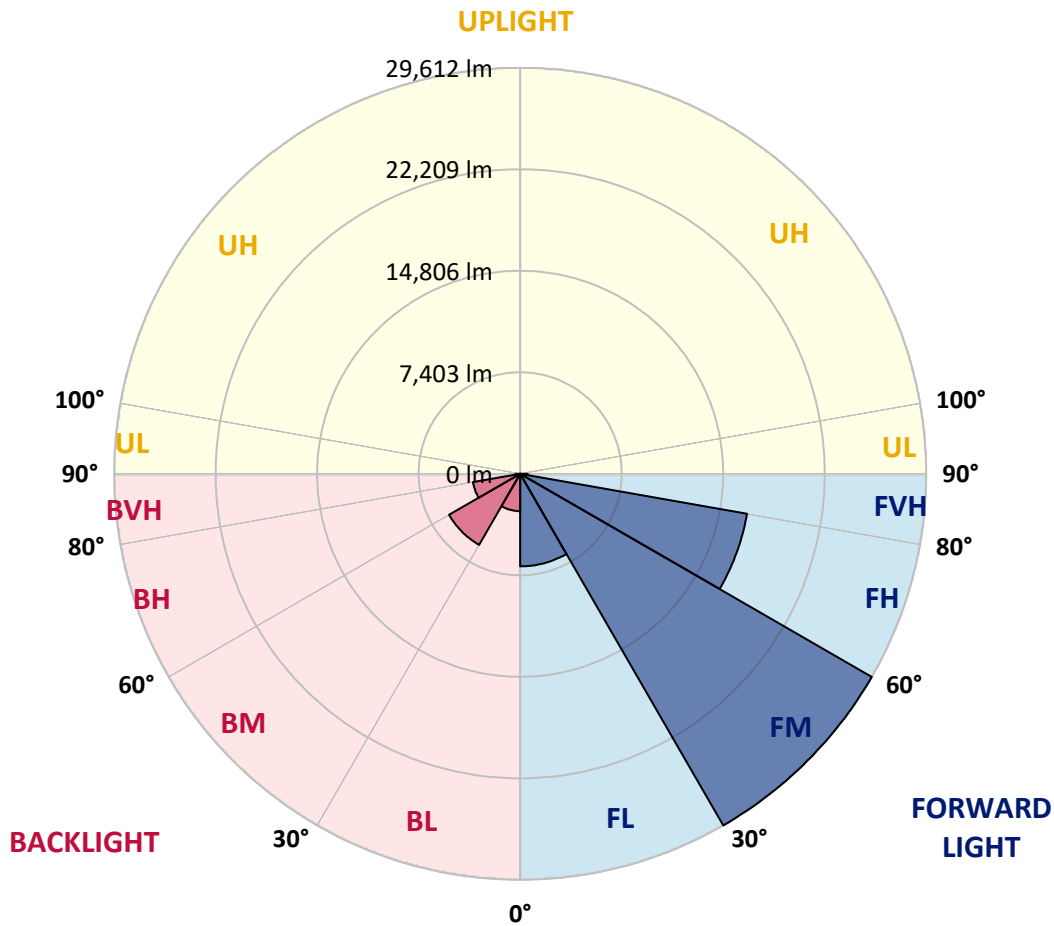
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6751.6	10.2			
FM (30°-60°)	29612.0	44.7			
FH (60°-80°)	16798.7	25.4			G5
FVH (80°-90°)	542.0	0.8			G4/750
BL (0°-30°)	2724.0	4.1	B4/5000		
BM (30°-60°)	5984.6	9.0	B4/8500		
BH (60°-80°)	3495.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	324.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2
2.5°	9730.2	9798.6	9713.1	9713.1	9425.9	9275.5	8988.3	8769.5	8376.3	8308.0
5°	11501.2	11586.7	11467.0	11415.7	11077.3	10766.2	10284.1	9808.9	9108.0	9036.2
7.5°	12872.2	12981.6	12875.6	12820.9	12520.1	12171.3	11607.2	10943.9	9955.9	9815.7
10°	13990.2	14007.3	13973.1	13993.6	13757.7	13470.5	12892.7	12120.0	10885.8	10694.4
12.5°	14622.7	14701.3	14769.7	14892.8	14851.8	14674.0	14154.3	13231.2	11870.5	11624.3
15°	14920.1	15056.9	15210.7	15494.5	15723.6	15768.0	15371.4	14424.4	12872.2	12574.8
17.5°	15026.1	15156.0	15398.8	15809.1	16301.4	16633.0	16455.2	15583.4	13863.7	13521.8
20°	15562.9	15600.5	15747.5	16137.3	16670.6	17221.1	17354.4	16698.0	14844.9	14458.6
22.5°	16711.6	16636.4	16677.5	16855.2	17238.2	17771.5	18075.8	17682.6	15853.5	15409.0
25°	18609.1	18390.3	18171.5	17966.4	18161.3	18462.1	18807.4	18667.3	16909.9	16345.8
27.5°	21005.8	20739.1	20257.1	19583.5	19347.6	19453.6	19607.5	19580.1	17887.8	17316.8
30°	23364.8	23053.7	22479.4	21505.0	20882.7	20602.4	20486.1	20407.5	18951.0	18342.5
32.5°	25248.7	25002.5	24438.4	23347.8	22445.2	21966.5	21580.2	21299.8	20062.2	19453.6
35°	26896.6	26667.5	26021.3	24831.6	23850.3	23340.9	22834.9	22236.6	21217.8	20602.4
37.5°	28400.9	28171.8	27286.3	26048.7	25060.6	24708.5	24257.2	23241.8	22376.8	21795.6
40°	29351.4	29300.1	28472.7	27071.0	26045.3	25870.9	25720.5	24407.6	23662.3	23122.1
42.5°	29594.1	29706.9	29050.5	27898.3	26920.5	26780.3	27132.5	25727.3	25105.1	24588.8
45°	29009.5	29334.3	28903.5	28120.6	27542.8	27467.5	28383.8	27170.1	26701.7	26229.9
47.5°	27529.1	28079.5	27901.7	27792.3	27710.3	28035.1	29484.7	28701.8	28510.3	28100.0
50°	24541.0	25583.7	25894.8	26585.5	27378.7	28476.1	30486.4	30373.6	30623.2	30209.5
52.5°	19375.0	20810.9	22616.1	24346.1	26359.8	28329.1	31587.3	32773.7	33826.7	33601.1
55°	15993.7	16639.8	18027.9	21200.7	24383.7	27710.3	32083.1	34712.2	37006.3	36804.6
57.5°	13395.3	13973.1	14827.8	17477.5	21395.6	26305.1	32390.8	35895.2	39184.2	39163.6
60°	10608.9	11220.9	12096.1	13973.1	17904.8	23877.7	32322.4	37242.2	41963.7	42134.7
62.5°	7463.5	8137.0	9108.0	10858.5	14338.9	20732.3	30927.5	38216.6	45235.6	45700.6
65°	4906.1	5350.6	6082.2	7593.4	10684.1	16687.7	28264.2	38343.1	48736.6	49523.0
67.5°	3439.4	3610.4	4041.2	4861.7	7043.0	12797.0	24021.3	37033.7	51071.7	51957.2
70°	2683.8	2769.3	2988.1	3316.3	4424.1	8605.4	18407.4	33628.4	50572.6	51495.7
72.5°	2318.0	2400.1	2482.1	2523.2	2967.6	5313.0	12468.8	28117.1	45871.6	46497.2
75°	2102.6	2123.1	2191.5	2177.8	2263.3	3446.3	7196.8	20486.1	36192.6	35977.2
77.5°	1767.6	1794.9	1907.8	1890.7	2010.3	2355.6	3736.9	13220.9	23464.0	22000.7
80°	1497.5	1511.2	1634.2	1613.7	1747.1	1706.0	1907.8	6738.7	9952.5	8431.0
82.5°	519.7	642.8	1247.9	1285.5	1333.4	1032.5	1100.9	2748.8	3039.4	2328.3
85°	253.0	270.1	635.9	902.6	899.2	519.7	536.8	981.2	957.3	752.2
87.5°	41.0	51.3	75.2	352.1	280.4	136.8	184.6	191.5	198.3	170.9
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°
7771.2	0°	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2	7771.2
8048.1	2.5°	7856.7	7685.7	7326.7	6995.1	6735.3	6485.7	6345.5	6225.8	6157.5	6143.8
8424.2	5°	8068.6	7716.5	7063.5	6513.0	6154.0	5887.4	5747.2	5658.3	5613.9	5586.5
8930.2	7.5°	8372.9	7856.7	6926.7	6301.1	5925.0	5733.5	5661.7	5648.0	5644.6	5648.0
9542.2	10°	8793.4	8085.7	6913.0	6249.8	5935.2	5829.2	5825.8	5829.2	5842.9	5846.3
10208.9	12.5°	9248.2	8321.6	6967.7	6294.2	6065.2	6007.0	5996.8	5993.4	6003.6	6010.4
10882.4	15°	9743.9	8632.8	7060.1	6389.9	6208.7	6147.2	6136.9	6116.4	6113.0	6109.6
11590.1	17.5°	10253.3	8940.5	7162.6	6492.5	6301.1	6215.6	6178.0	6130.1	6092.5	6082.2
12321.8	20°	10769.6	9244.7	7234.4	6543.8	6307.9	6188.2	6113.0	6031.0	5966.0	5928.4
13060.2	22.5°	11320.0	9562.7	7278.9	6530.1	6246.4	6082.2	5945.5	5849.8	5750.6	5685.7
13805.6	25°	11856.8	9839.6	7275.4	6458.3	6126.7	5918.1	5743.8	5620.7	5483.9	5415.6
14574.8	27.5°	12373.0	10089.2	7190.0	6331.8	5955.7	5723.3	5514.7	5367.7	5234.4	5169.4
15350.9	30°	12906.4	10297.8	7056.6	6147.2	5754.0	5497.6	5268.5	5142.0	5022.4	4960.8
16171.5	32.5°	13436.3	10489.2	6868.6	5918.1	5521.5	5275.4	5049.7	4933.5	4861.7	4861.7
17053.5	35°	13997.0	10622.6	6619.0	5651.5	5275.4	5039.5	4861.7	4793.3	4786.5	4745.5
17986.9	37.5°	14588.5	10708.0	6314.7	5377.9	5032.6	4810.4	4755.7	4673.7	4605.3	4516.4
19012.6	40°	15210.7	10793.5	5948.9	5094.2	4776.2	4653.1	4629.2	4519.8	4324.9	4106.1
20175.0	42.5°	15966.3	10851.6	5569.4	4810.4	4506.1	4465.1	4499.3	4311.2	4000.1	3836.0
21576.8	45°	16841.6	10947.4	5220.7	4530.1	4229.2	4229.2	4372.8	4126.6	3870.2	3767.6
23176.8	47.5°	17976.6	11169.6	4895.9	4222.4	3972.8	4041.2	4092.4	3904.4	3760.8	3634.3
25125.6	50°	19617.7	11702.9	4560.8	3911.2	3777.9	3914.7	3842.9	3733.5	3565.9	3463.4
28223.1	52.5°	21655.4	12017.5	4263.4	3630.9	3610.4	3747.1	3644.6	3542.0	3415.5	3278.7
30571.9	55°	23043.5	12075.6	4013.8	3425.8	3497.5	3483.9	3446.3	3354.0	3285.6	3104.4
32889.9	57.5°	24595.7	12191.8	3808.7	3302.7	3425.8	3275.3	3261.6	3183.0	3094.1	2971.0
35717.4	60°	26452.1	12373.0	3630.9	3254.8	3364.2	3138.6	3070.2	3039.4	2950.5	2889.0
39119.2	62.5°	28476.1	12537.2	3449.7	3261.6	3292.4	3005.2	2902.7	2892.4	2837.7	2817.2
42312.5	65°	29857.4	12089.3	3224.0	3254.8	3179.6	2868.5	2738.5	2735.1	2690.7	2683.8
43697.1	67.5°	29375.3	10670.4	2919.8	3159.1	3063.3	2731.7	2588.1	2574.4	2516.3	2519.7
42250.9	70°	26961.5	8646.4	2499.2	2923.2	2919.8	2608.6	2430.8	2386.4	2307.8	2321.4
36736.2	72.5°	22434.9	6407.0	1935.1	2530.0	2690.7	2495.8	2249.6	2177.8	2078.7	2092.4
27118.8	75°	16202.2	4355.7	1408.6	1924.8	2342.0	2362.5	2071.9	1948.8	1829.1	1849.6
15094.5	77.5°	8290.9	2468.5	1035.9	1326.5	1839.4	2147.1	1911.2	1747.1	1719.7	1911.2
4352.3	80°	2704.4	1237.6	718.0	929.9	1206.9	1757.3	1675.3	1487.2	1480.4	1524.8
912.8	82.5°	806.9	523.1	461.6	612.0	666.7	1347.1	1446.2	1124.8	967.6	1018.8
304.3	85°	276.9	253.0	263.3	304.3	318.0	789.8	1012.0	745.3	704.3	776.1
68.4	87.5°	65.0	88.9	75.2	68.4	68.4	191.5	393.2	311.1	430.8	287.2
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°
7771.2
6143.8
5583.1
5658.3
5849.8
6013.9
6106.2
6092.5
5942.1
5689.1
5415.6
5166.0
4957.4
4865.1
4735.2
4502.7
4075.3
3839.4
3784.7
3630.9
3453.1
3251.4
3107.8
2930.0
2906.1
2817.2
2680.4
2519.7
2335.1
2089.0
1856.5
1883.8
1309.4
1053.0
765.8
276.9
0.0

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