

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: P951087

Luminaire Tested: **GALN-SB5B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951087
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-SB5B-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25509 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

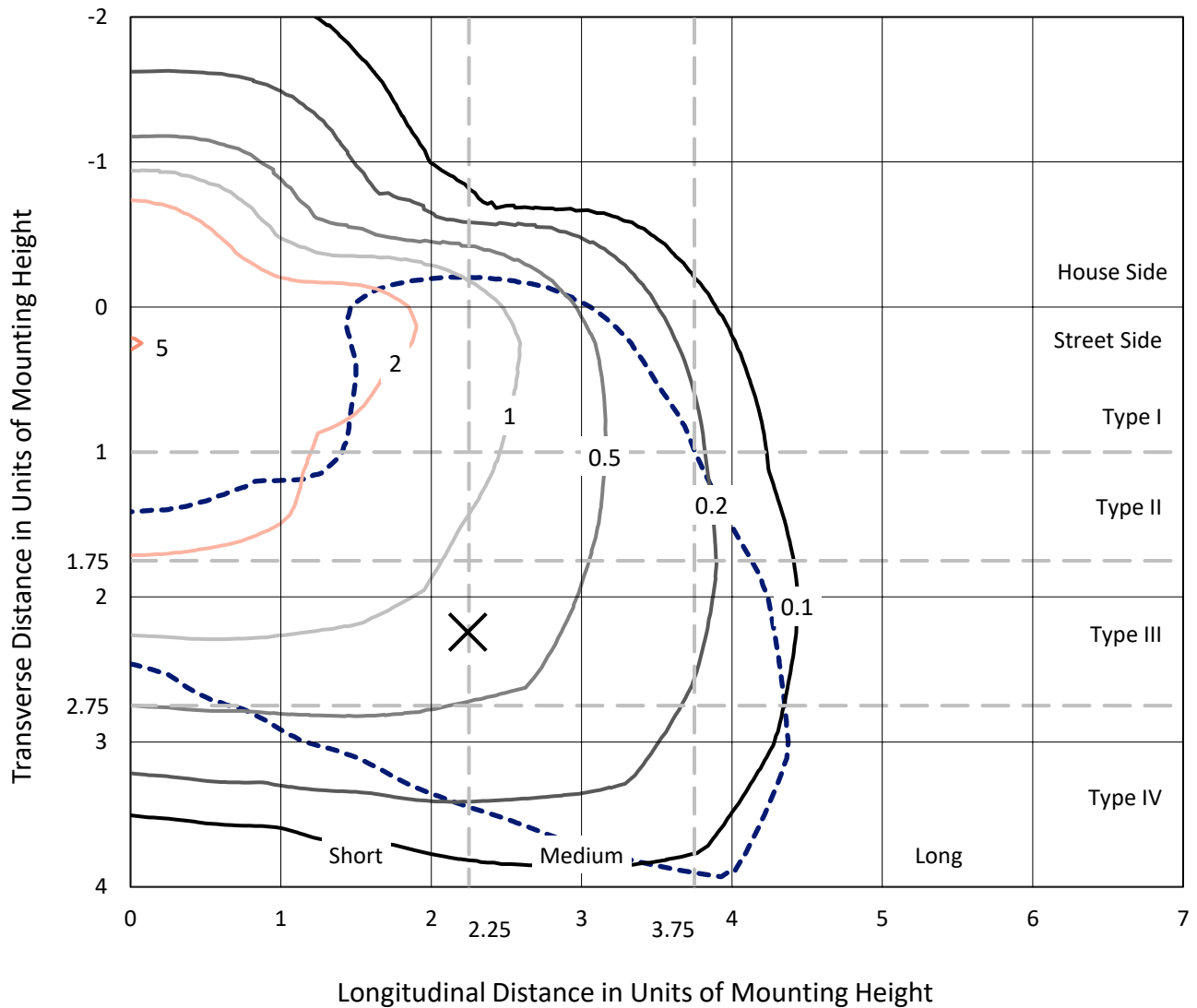
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

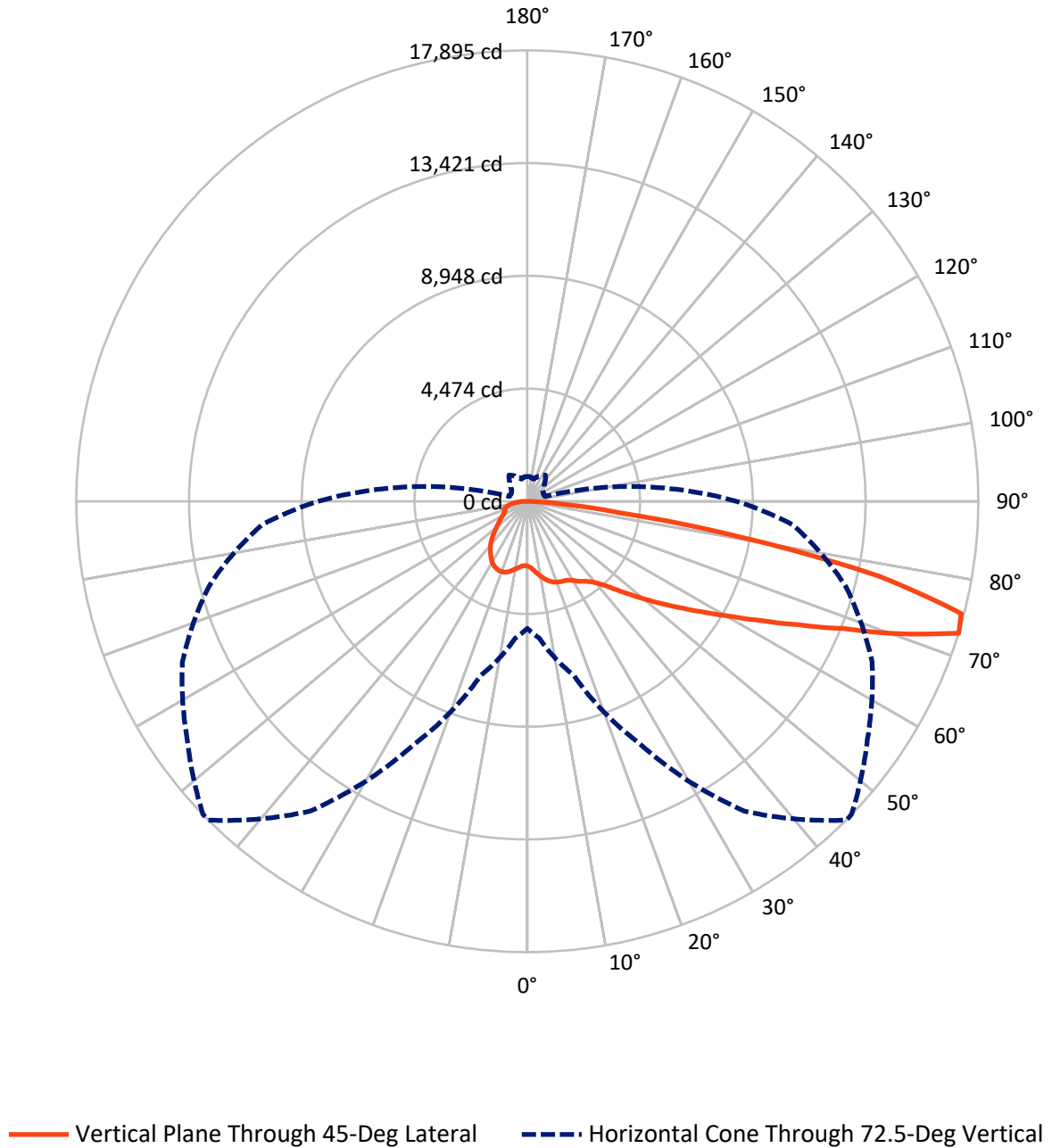
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	5766.7	0.0	5766.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19742.3	0.0	19742.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	25509.0	0.0	25509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	1.0
10°-20°	873.3	3.4
20°-30°	1519.1	6.0
30°-40°	2177.7	8.5
40°-50°	3066.3	12.0
50°-60°	4696.7	18.4
60°-70°	6803.9	26.7
70°-80°	5433.3	21.3
80°-90°	676.7	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°	25509.0	100.0
0°-180°	25509.0	100.0



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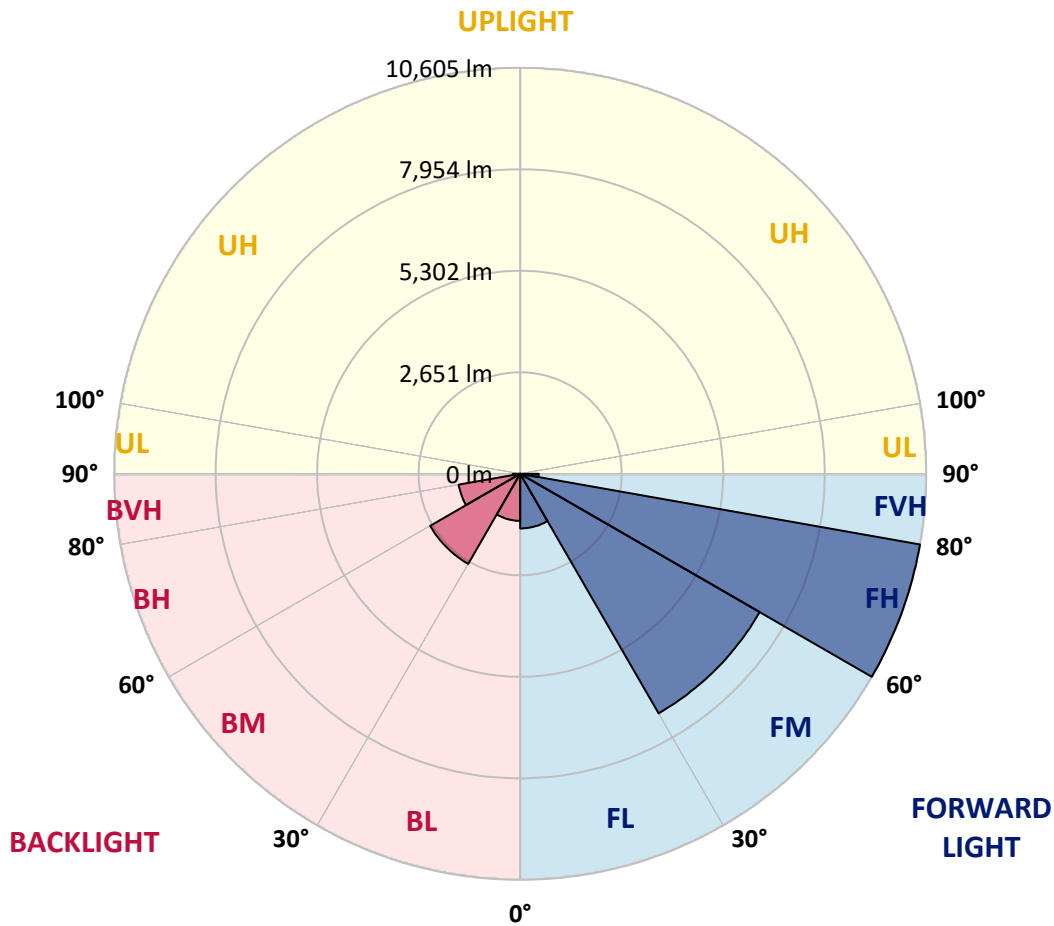
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.5	5.6			
FM (30°-60°)	7225.5	28.3			
FH (60°-80°)	10604.8	41.6			G4/12000
FVH (80°-90°)	485.5	1.9			G3/500
BL (0°-30°)	1227.8	4.8	B3/2500		
BM (30°-60°)	2715.3	10.6	B3/5000		
BH (60°-80°)	1632.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	191.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4
2.5°	2674.1	2691.6	2675.5	2660.7	2654.0	2636.5	2635.2	2624.4	2617.7	2598.9
5°	2860.9	2883.8	2856.9	2827.3	2800.5	2757.5	2752.1	2721.2	2686.2	2645.9
7.5°	3071.9	3092.1	3061.2	3016.8	2969.8	2898.6	2897.2	2840.8	2785.7	2717.1
10°	3256.0	3282.9	3241.2	3180.8	3121.6	3041.0	3031.6	2967.1	2897.2	2808.5
12.5°	3418.6	3437.4	3397.1	3323.2	3254.7	3174.0	3161.9	3090.7	3012.8	2912.0
15°	3547.6	3571.8	3518.0	3438.8	3366.2	3286.9	3276.2	3211.7	3133.7	3027.6
17.5°	3632.3	3652.4	3597.3	3508.6	3438.8	3372.9	3364.9	3311.1	3242.6	3135.1
20°	3664.5	3686.0	3628.2	3538.2	3473.7	3422.6	3418.6	3379.6	3332.6	3234.5
22.5°	3696.8	3716.9	3641.7	3547.6	3491.2	3458.9	3457.6	3432.0	3413.2	3332.6
25°	3827.1	3832.5	3731.7	3596.0	3515.4	3487.1	3485.8	3484.5	3492.5	3429.4
27.5°	3940.0	3938.7	3852.7	3725.0	3600.0	3540.9	3539.5	3553.0	3578.5	3526.1
30°	4105.3	4090.5	3988.4	3855.3	3741.1	3649.7	3641.7	3629.6	3649.7	3608.1
32.5°	4456.0	4409.0	4243.7	4007.2	3858.0	3788.1	3777.4	3702.1	3710.2	3684.7
35°	4958.6	4896.8	4676.4	4294.8	4003.2	3903.7	3898.3	3802.9	3786.8	3764.0
37.5°	5556.6	5480.0	5223.3	4711.3	4253.1	4038.1	4030.0	3944.0	3878.2	3854.0
40°	6157.3	6060.5	5848.2	5219.3	4621.3	4262.5	4237.0	4106.6	4031.4	3991.1
42.5°	6740.5	6659.8	6478.4	5789.1	5075.5	4590.4	4534.0	4310.9	4254.4	4216.8
45°	7256.5	7183.9	7050.9	6397.8	5607.6	5036.5	4981.4	4617.3	4599.8	4599.8
47.5°	7675.7	7659.6	7518.5	7018.6	6235.2	5544.5	5449.1	5043.3	5090.3	5162.8
50°	8140.7	8096.3	7945.8	7630.1	6972.9	6126.3	6048.4	5566.0	5742.0	5940.9
52.5°	8568.0	8592.2	8424.2	8267.0	7806.1	6775.4	6638.3	6182.8	6563.1	6892.3
55°	9007.4	9008.8	8961.7	8940.2	8679.6	7493.0	7342.5	6924.6	7529.3	7937.8
57.5°	9420.0	9422.7	9492.5	9682.0	9692.8	8320.8	8150.1	7835.7	8603.0	9019.5
60°	9788.2	9807.0	9997.8	10441.3	10583.7	9269.5	9108.2	8912.0	9712.9	10132.2
62.5°	9911.8	9980.3	10405.0	11035.2	11463.9	10433.2	10274.6	10157.7	10879.3	11269.0
65°	9702.2	9859.4	10680.5	11525.7	12369.6	11816.0	11658.7	11531.1	12091.4	12458.3
67.5°	9187.5	9390.4	10664.3	12040.4	13468.8	13479.6	13333.1	13033.4	13390.9	13532.0
70°	7831.6	8135.3	9725.0	12232.5	14730.6	15754.6	15613.5	14842.2	14687.6	14005.0
72.5°	5045.9	5454.5	7161.1	10650.9	15011.5	17895.3	17887.2	16474.9	15097.5	13085.8
75°	1841.0	2090.9	3327.2	6685.4	12600.7	17786.4	17838.8	16195.4	13781.9	10108.0
77.5°	670.6	733.7	1085.8	2569.3	7749.6	14271.1	14379.9	12947.4	9809.7	5072.8
80°	352.1	387.0	556.3	997.1	3320.5	8475.3	8646.0	7694.6	4610.6	1527.9
82.5°	194.8	211.0	311.8	541.5	1495.6	3624.2	3726.3	3039.7	1622.0	647.7
85°	104.8	111.5	146.5	295.6	731.0	1256.4	1284.7	908.4	646.4	380.3
87.5°	30.9	37.6	48.4	94.1	286.2	282.2	288.9	180.1	255.3	192.2
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°
2573.4	0°	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4	2573.4
2593.5	2.5°	2585.5	2581.4	2566.6	2559.9	2551.9	2550.5	2557.2	2558.6	2559.9	2561.3
2623.1	5°	2609.6	2596.2	2582.8	2574.7	2577.4	2578.7	2592.2	2601.6	2608.3	2613.7
2678.2	7.5°	2656.7	2645.9	2623.1	2621.7	2625.8	2637.9	2655.3	2676.8	2688.9	2698.3
2749.4	10°	2726.6	2706.4	2679.5	2683.6	2691.6	2709.1	2745.4	2762.8	2783.0	2800.5
2836.7	12.5°	2797.8	2780.3	2749.4	2752.1	2765.5	2796.4	2831.4	2852.9	2866.3	2879.7
2930.8	15°	2890.5	2859.6	2826.0	2826.0	2850.2	2883.8	2899.9	2917.4	2925.4	2940.2
3031.6	17.5°	2985.9	2945.6	2901.2	2898.6	2928.1	2944.2	2953.7	2956.3	2959.0	2975.2
3129.7	20°	3081.3	3037.0	2973.8	2968.4	2975.2	2972.5	2971.1	2968.4	2972.5	2992.6
3230.5	22.5°	3175.4	3124.3	3037.0	3012.8	2994.0	2968.4	2967.1	2965.7	2968.4	2988.6
3339.3	25°	3285.6	3223.8	3106.8	3034.3	2971.1	2936.2	2940.2	2941.6	2944.2	2960.4
3452.2	27.5°	3405.2	3336.6	3171.3	3027.6	2913.3	2889.2	2882.4	2886.5	2895.9	2921.4
3565.1	30°	3524.8	3444.1	3230.5	3000.7	2840.8	2807.2	2785.7	2795.1	2824.7	2850.2
3663.2	32.5°	3633.6	3553.0	3277.5	2941.6	2748.1	2695.6	2667.4	2679.5	2709.1	2718.5
3772.0	35°	3761.3	3669.9	3297.7	2847.5	2647.3	2566.6	2529.0	2511.5	2526.3	2516.9
3899.7	37.5°	3903.7	3808.3	3295.0	2723.9	2529.0	2436.3	2383.9	2318.0	2287.1	2254.9
4087.8	40°	4114.7	3977.6	3262.7	2574.7	2382.5	2297.9	2203.8	2092.3	2022.4	1959.2
4391.5	42.5°	4402.3	4212.8	3203.6	2410.8	2217.3	2138.0	2010.3	1880.0	1769.8	1665.0
4852.4	45°	4830.9	4520.5	3129.7	2236.1	2038.5	1960.6	1822.2	1675.7	1550.7	1416.4
5506.9	47.5°	5449.1	4934.4	3059.8	2037.2	1850.4	1779.2	1654.2	1518.5	1370.7	1240.3
6452.9	50°	6298.4	5528.4	2995.3	1843.7	1665.0	1611.2	1511.8	1373.4	1224.2	1119.4
7561.5	52.5°	7378.8	6336.0	2968.4	1656.9	1491.6	1471.5	1392.2	1263.2	1122.1	1033.4
8854.2	55°	8619.1	7302.2	2968.4	1478.2	1339.8	1346.5	1291.4	1171.8	1049.5	970.2
10187.3	57.5°	9884.9	8280.4	2914.7	1312.9	1210.8	1239.0	1204.0	1099.2	989.0	907.1
11588.9	60°	11051.3	9100.2	2697.0	1162.4	1096.5	1140.9	1118.0	1028.0	893.6	825.1
12760.6	62.5°	11947.7	9562.4	2277.7	1042.8	1002.5	1053.5	1041.4	933.9	876.2	847.9
13722.8	65°	12396.5	9487.2	1741.6	936.6	923.2	1002.5	976.9	972.9	927.2	895.0
14035.9	67.5°	12121.0	8839.5	1263.2	858.7	877.5	955.4	1053.5	1069.7	985.0	921.8
13154.4	70°	10912.9	7667.7	940.7	784.8	819.7	956.8	1201.4	1119.4	966.2	892.3
10550.1	72.5°	8301.9	5717.8	729.7	706.8	744.5	963.5	1267.2	1096.5	912.4	986.3
6572.5	75°	4747.6	3139.1	585.9	611.4	650.4	900.3	1233.6	1037.4	870.8	905.7
2604.3	77.5°	1810.1	1206.7	483.8	517.4	522.7	786.1	1179.8	1033.4	829.1	809.0
780.7	80°	627.6	471.7	400.5	411.2	404.5	698.8	1131.5	899.0	678.6	607.4
322.5	82.5°	256.7	235.2	317.1	303.7	287.6	542.9	913.8	735.1	555.0	490.5
155.9	85°	111.5	149.2	209.6	184.1	166.6	376.3	732.4	622.2	469.0	404.5
51.1	87.5°	22.8	56.4	88.7	83.3	86.0	251.3	520.0	442.1	331.9	248.6
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°
2573.4
2566.6
2616.4
2701.0
2796.4
2885.1
2945.6
2980.5
3000.7
3002.0
2981.9
2946.9
2878.4
2752.1
2546.5
2275.0
1963.3
1655.6
1400.2
1225.5
1112.7
1026.7
962.2
893.6
814.3
838.5
884.2
911.1
880.2
978.3
905.7
737.7
587.2
485.1
403.1
194.8
0.0

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