

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: P948504

Luminaire Tested: **GALN-SB3C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948504
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-SB3C-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23726 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

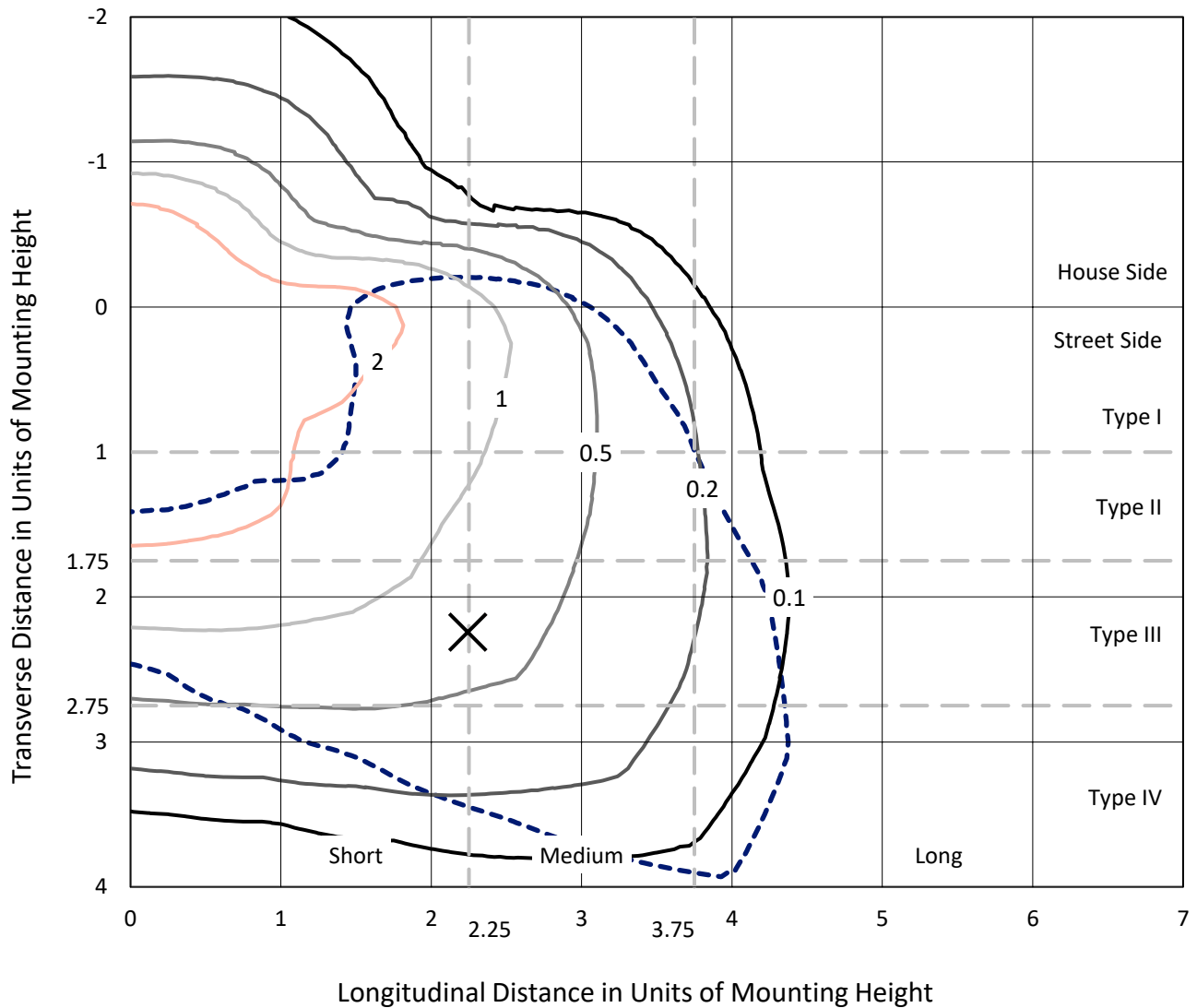
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

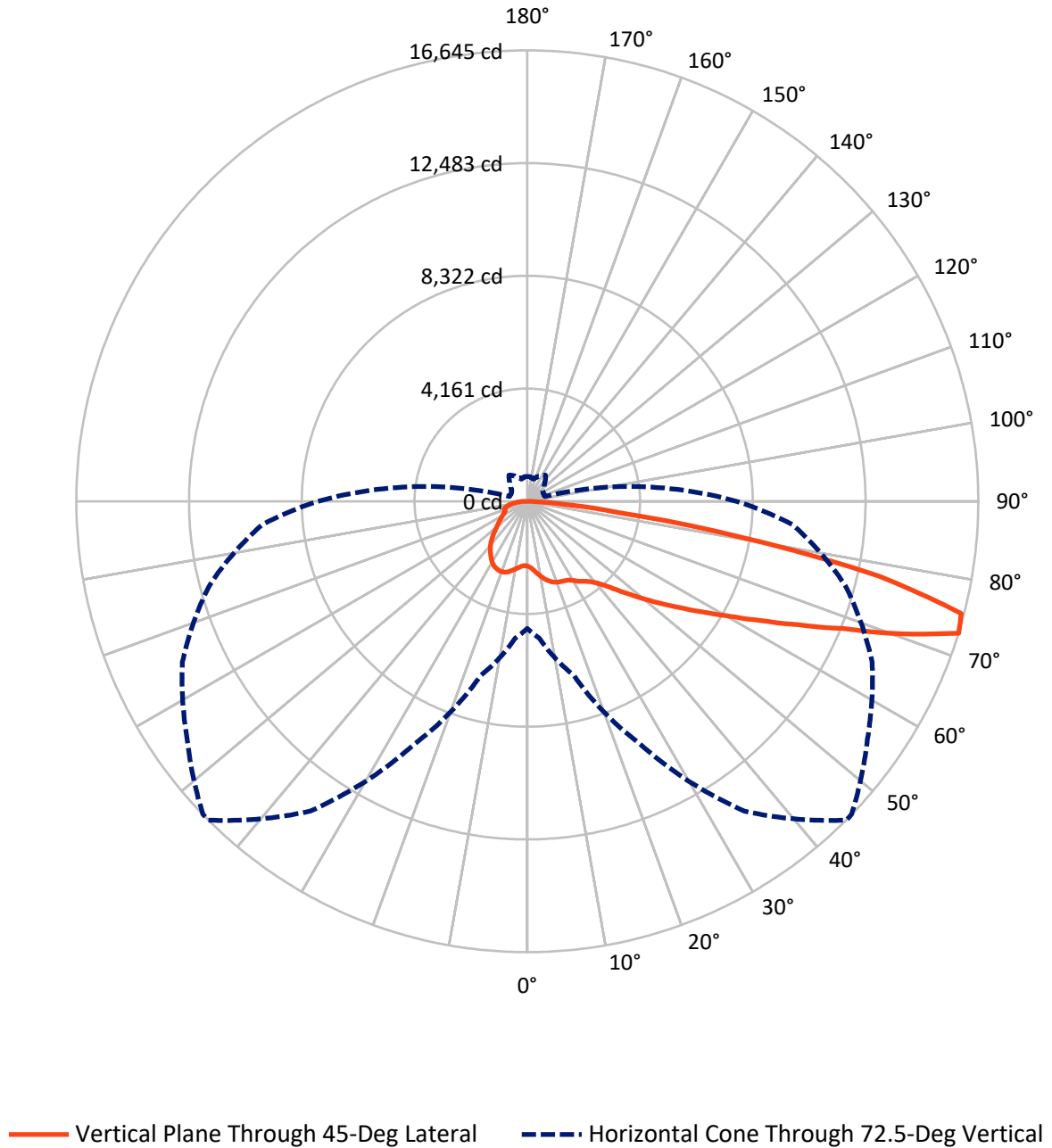
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	5363.6	0.0	5363.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18362.4	0.0	18362.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	23726.0	0.0	23726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.0
10°-20°	812.2	3.4
20°-30°	1412.9	6.0
30°-40°	2025.5	8.5
40°-50°	2852.0	12.0
50°-60°	4368.5	18.4
60°-70°	6328.3	26.7
70°-80°	5053.6	21.3
80°-90°	629.4	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°	23726.0	100.0
0°-180°	23726.0	100.0

Coefficient of Utilization



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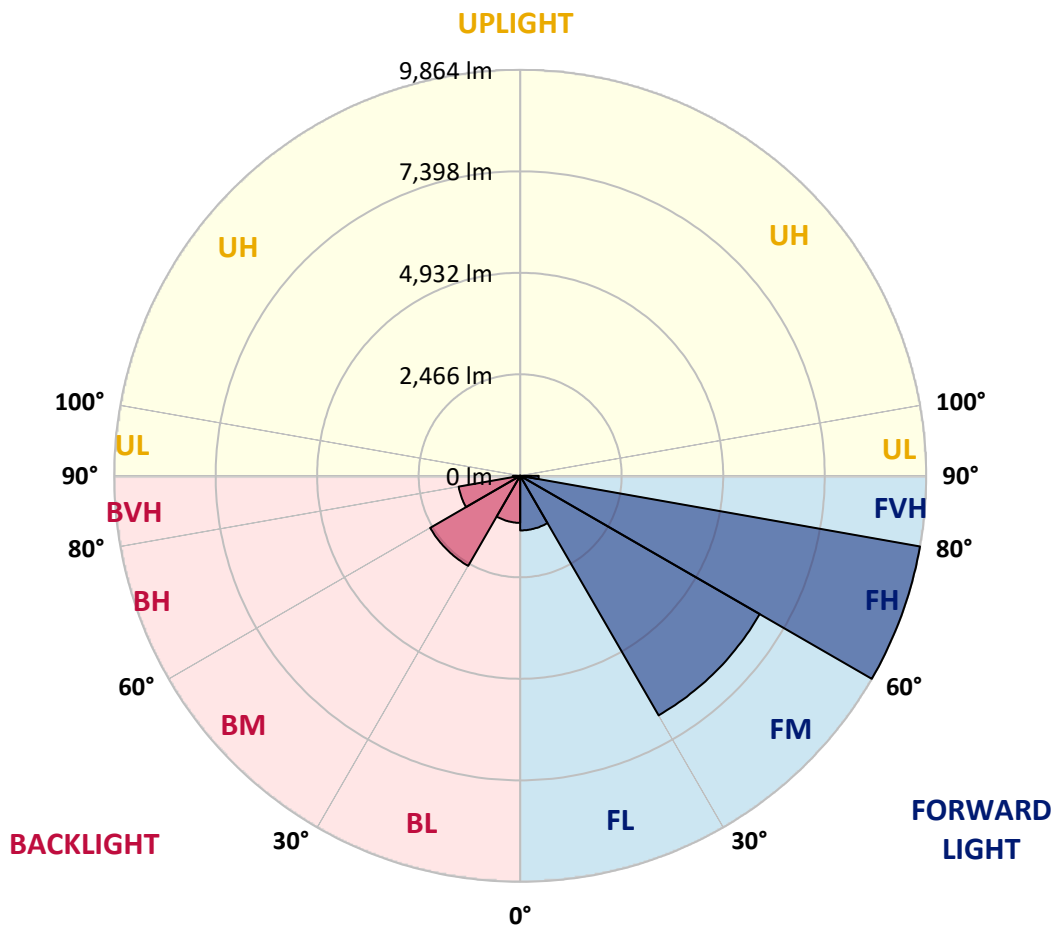
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.8	5.6			
FM (30°-60°)	6720.4	28.3			
FH (60°-80°)	9863.6	41.6			G4/12000
FVH (80°-90°)	451.5	1.9			G3/500
BL (0°-30°)	1142.0	4.8	B3/2500		
BM (30°-60°)	2525.5	10.6	B3/5000		
BH (60°-80°)	1518.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	177.9	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°	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5
2.5°	2487.2	2503.5	2488.5	2474.7	2468.5	2452.2	2451.0	2441.0	2434.7	2417.2
5°	2661.0	2682.2	2657.2	2629.7	2604.7	2564.7	2559.7	2531.0	2498.5	2461.0
7.5°	2857.2	2875.9	2847.2	2805.9	2762.2	2696.0	2694.7	2642.2	2591.0	2527.2
10°	3028.4	3053.4	3014.7	2958.4	2903.4	2828.4	2819.7	2759.7	2694.7	2612.2
12.5°	3179.7	3197.2	3159.7	3090.9	3027.2	2952.2	2940.9	2874.7	2802.2	2708.5
15°	3299.6	3322.1	3272.1	3198.4	3130.9	3057.2	3047.2	2987.2	2914.7	2815.9
17.5°	3378.4	3397.1	3345.9	3263.4	3198.4	3137.2	3129.7	3079.7	3015.9	2915.9
20°	3408.4	3428.4	3374.6	3290.9	3230.9	3183.4	3179.7	3143.4	3099.7	3008.4
22.5°	3438.4	3457.1	3387.1	3299.6	3247.1	3217.2	3215.9	3192.2	3174.7	3099.7
25°	3559.6	3564.6	3470.9	3344.6	3269.6	3243.4	3242.1	3240.9	3248.4	3189.7
27.5°	3664.6	3663.4	3583.4	3464.6	3348.4	3293.4	3292.1	3304.6	3328.4	3279.6
30°	3818.3	3804.6	3709.6	3585.9	3479.6	3394.6	3387.1	3375.9	3394.6	3355.9
32.5°	4144.6	4100.8	3947.1	3727.1	3588.4	3523.4	3513.4	3443.4	3450.9	3427.1
35°	4612.0	4554.5	4349.5	3994.6	3723.3	3630.9	3625.9	3537.1	3522.1	3500.9
37.5°	5168.2	5096.9	4858.2	4382.0	3955.8	3755.8	3748.3	3668.4	3607.1	3584.6
40°	5726.9	5636.9	5439.4	4854.5	4298.3	3964.6	3940.8	3819.6	3749.6	3712.1
42.5°	6269.3	6194.3	6025.6	5384.4	4720.7	4269.5	4217.0	4009.6	3957.1	3922.1
45°	6749.3	6681.8	6558.0	5950.6	5215.7	4684.5	4633.2	4294.5	4278.3	4278.3
47.5°	7139.2	7124.2	6993.0	6528.0	5799.4	5156.9	5068.2	4690.7	4734.5	4802.0
50°	7571.7	7530.4	7390.5	7096.7	6485.5	5698.1	5625.6	5176.9	5340.7	5525.7
52.5°	7969.1	7991.6	7835.4	7689.2	7260.5	6301.8	6174.3	5750.6	6104.3	6410.6
55°	8377.8	8379.1	8335.4	8315.4	8072.9	6969.2	6829.3	6440.6	7003.0	7383.0
57.5°	8761.6	8764.1	8829.0	9005.3	9015.3	7739.2	7580.4	7288.0	8001.6	8389.1
60°	9104.0	9121.5	9299.0	9711.5	9843.9	8621.6	8471.6	8289.1	9034.0	9424.0
62.5°	9219.0	9282.7	9677.7	10263.9	10662.6	9704.0	9556.5	9447.7	10118.9	10481.4
65°	9024.0	9170.3	9933.9	10720.1	11505.0	10990.1	10843.8	10725.1	11246.3	11587.5
67.5°	8545.3	8734.1	9918.9	11198.8	12527.4	12537.4	12401.2	12122.4	12454.9	12586.1
70°	7284.2	7566.7	9045.3	11377.5	13701.0	14653.4	14522.2	13804.8	13661.0	13026.1
72.5°	4693.2	5073.2	6660.5	9906.4	13962.2	16644.5	16637.0	15323.3	14042.2	12171.2
75°	1712.3	1944.8	3094.7	6218.1	11720.0	16543.2	16592.0	15063.4	12818.6	9401.5
77.5°	623.7	682.4	1009.9	2389.7	7208.0	13273.6	13374.8	12042.4	9124.0	4718.2
80°	327.5	360.0	517.4	927.4	3088.4	7882.9	8041.6	7156.7	4288.3	1421.1
82.5°	181.2	196.2	290.0	503.7	1391.1	3370.9	3465.9	2827.2	1508.6	602.4
85°	97.5	103.7	136.2	275.0	679.9	1168.6	1194.9	844.9	601.2	353.7
87.5°	28.7	35.0	45.0	87.5	266.2	262.5	268.7	167.5	237.5	178.7
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°
2393.5	0°	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5	2393.5
2412.2	2.5°	2404.7	2401.0	2387.2	2381.0	2373.5	2372.2	2378.5	2379.7	2381.0	2382.2
2439.7	5°	2427.2	2414.7	2402.2	2394.7	2397.2	2398.5	2411.0	2419.7	2426.0	2431.0
2491.0	7.5°	2471.0	2461.0	2439.7	2438.5	2442.2	2453.5	2469.7	2489.7	2501.0	2509.7
2557.2	10°	2536.0	2517.2	2492.2	2496.0	2503.5	2519.7	2553.5	2569.7	2588.5	2604.7
2638.5	12.5°	2602.2	2586.0	2557.2	2559.7	2572.2	2601.0	2633.5	2653.5	2666.0	2678.5
2726.0	15°	2688.5	2659.7	2628.5	2628.5	2651.0	2682.2	2697.2	2713.5	2721.0	2734.7
2819.7	17.5°	2777.2	2739.7	2698.5	2696.0	2723.5	2738.5	2747.2	2749.7	2752.2	2767.2
2910.9	20°	2865.9	2824.7	2766.0	2761.0	2767.2	2764.7	2763.5	2761.0	2764.7	2783.4
3004.7	22.5°	2953.4	2905.9	2824.7	2802.2	2784.7	2761.0	2759.7	2758.5	2761.0	2779.7
3105.9	25°	3055.9	2998.4	2889.7	2822.2	2763.5	2731.0	2734.7	2736.0	2738.5	2753.5
3210.9	27.5°	3167.2	3103.4	2949.7	2815.9	2709.7	2687.2	2681.0	2684.7	2693.5	2717.2
3315.9	30°	3278.4	3203.4	3004.7	2790.9	2642.2	2611.0	2591.0	2599.7	2627.2	2651.0
3407.1	32.5°	3379.6	3304.6	3048.4	2736.0	2556.0	2507.2	2481.0	2492.2	2519.7	2528.5
3508.4	35°	3498.4	3413.4	3067.2	2648.5	2462.2	2387.2	2352.2	2336.0	2349.7	2341.0
3627.1	37.5°	3630.9	3542.1	3064.7	2533.5	2352.2	2266.0	2217.3	2156.0	2127.3	2097.3
3802.1	40°	3827.1	3699.6	3034.7	2394.7	2216.0	2137.3	2049.8	1946.0	1881.0	1822.3
4084.6	42.5°	4094.6	3918.3	2979.7	2242.3	2062.3	1988.5	1869.8	1748.6	1646.1	1548.6
4513.3	45°	4493.3	4204.5	2910.9	2079.8	1896.0	1823.6	1694.8	1558.6	1442.3	1317.4
5121.9	47.5°	5068.2	4589.5	2845.9	1894.8	1721.1	1654.8	1538.6	1412.3	1274.9	1153.6
6001.9	50°	5858.1	5141.9	2785.9	1714.8	1548.6	1498.6	1406.1	1277.4	1138.6	1041.1
7033.0	52.5°	6863.0	5893.1	2761.0	1541.1	1387.4	1368.6	1294.9	1174.9	1043.6	961.1
8235.4	55°	8016.6	6791.8	2761.0	1374.9	1246.1	1252.4	1201.1	1089.9	976.1	902.4
9475.2	57.5°	9194.0	7701.7	2711.0	1221.1	1126.1	1152.4	1119.9	1022.4	919.9	843.7
10778.8	60°	10278.9	8464.1	2508.5	1081.1	1019.9	1061.1	1039.9	956.1	831.2	767.4
11868.7	62.5°	11112.6	8894.0	2118.5	969.9	932.4	979.9	968.6	868.7	814.9	788.7
12763.6	65°	11530.0	8824.0	1619.8	871.2	858.7	932.4	908.7	904.9	862.4	832.4
13054.8	67.5°	11273.8	8221.6	1174.9	798.7	816.2	888.7	979.9	994.9	916.2	857.4
12234.9	70°	10150.2	7131.7	874.9	729.9	762.4	889.9	1117.4	1041.1	898.7	829.9
9812.7	72.5°	7721.7	5318.2	678.7	657.4	692.4	896.2	1178.6	1019.9	848.7	917.4
6113.1	75°	4415.8	2919.7	544.9	568.7	604.9	837.4	1147.4	964.9	809.9	842.4
2422.2	77.5°	1683.6	1122.4	450.0	481.2	486.2	731.2	1097.4	961.1	771.2	752.4
726.2	80°	583.7	438.7	372.5	382.5	376.2	649.9	1052.4	836.2	631.2	564.9
300.0	82.5°	238.7	218.7	295.0	282.5	267.5	504.9	849.9	683.7	516.2	456.2
145.0	85°	103.7	138.7	195.0	171.2	155.0	350.0	681.2	578.7	436.2	376.2
47.5	87.5°	21.2	52.5	82.5	77.5	80.0	233.7	483.7	411.2	308.7	231.2
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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<u>180°</u>
2393.5
2387.2
2433.5
2512.2
2601.0
2683.5
2739.7
2772.2
2790.9
2792.2
2773.5
2741.0
2677.2
2559.7
2368.5
2116.0
1826.1
1539.8
1302.4
1139.9
1034.9
954.9
894.9
831.2
757.4
779.9
822.4
847.4
818.7
909.9
842.4
686.2
546.2
451.2
375.0
181.2
0.0

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