

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: P952137

Luminaire Tested: **GALN-SB6A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952137
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-SB6A-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23608 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

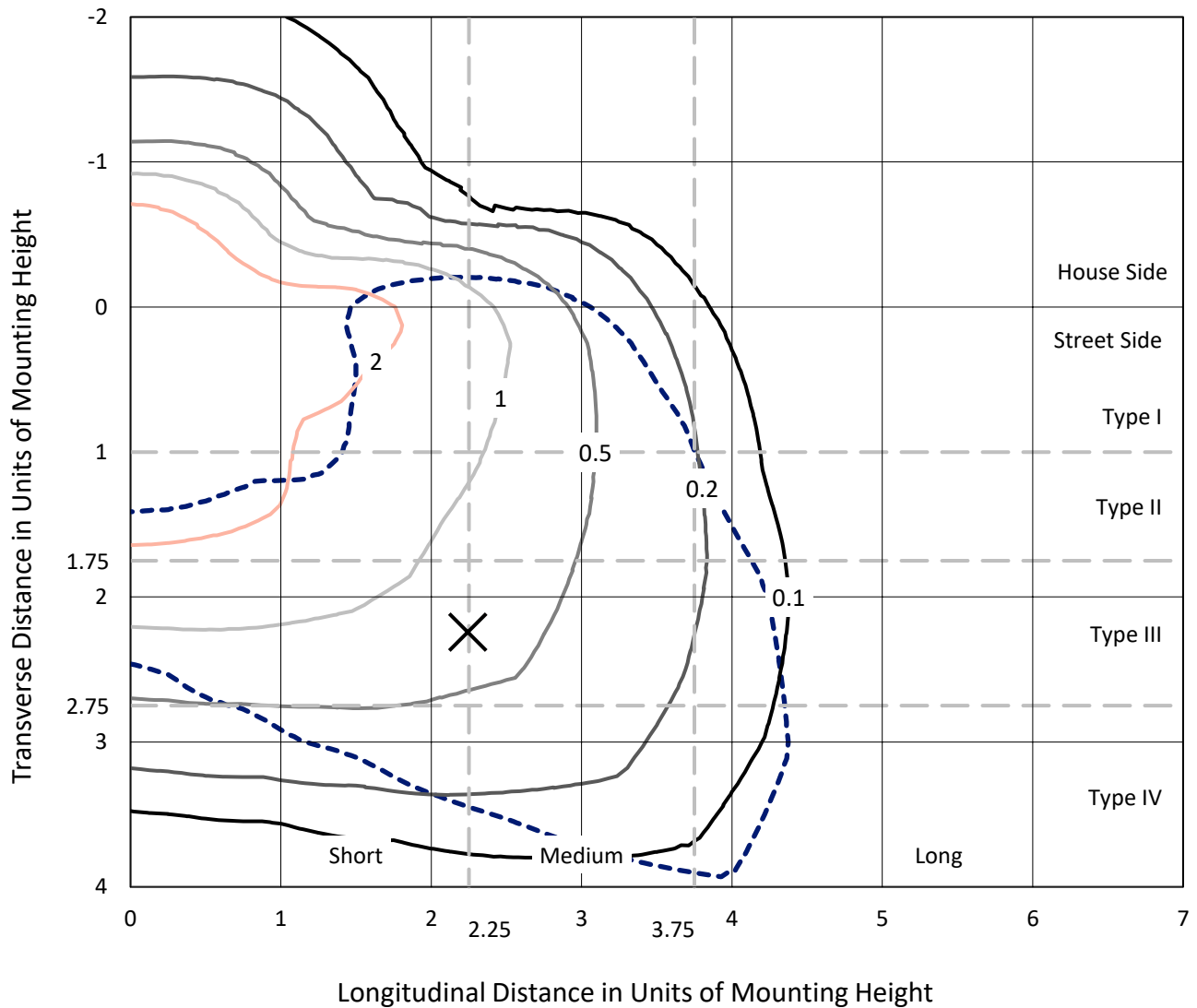
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

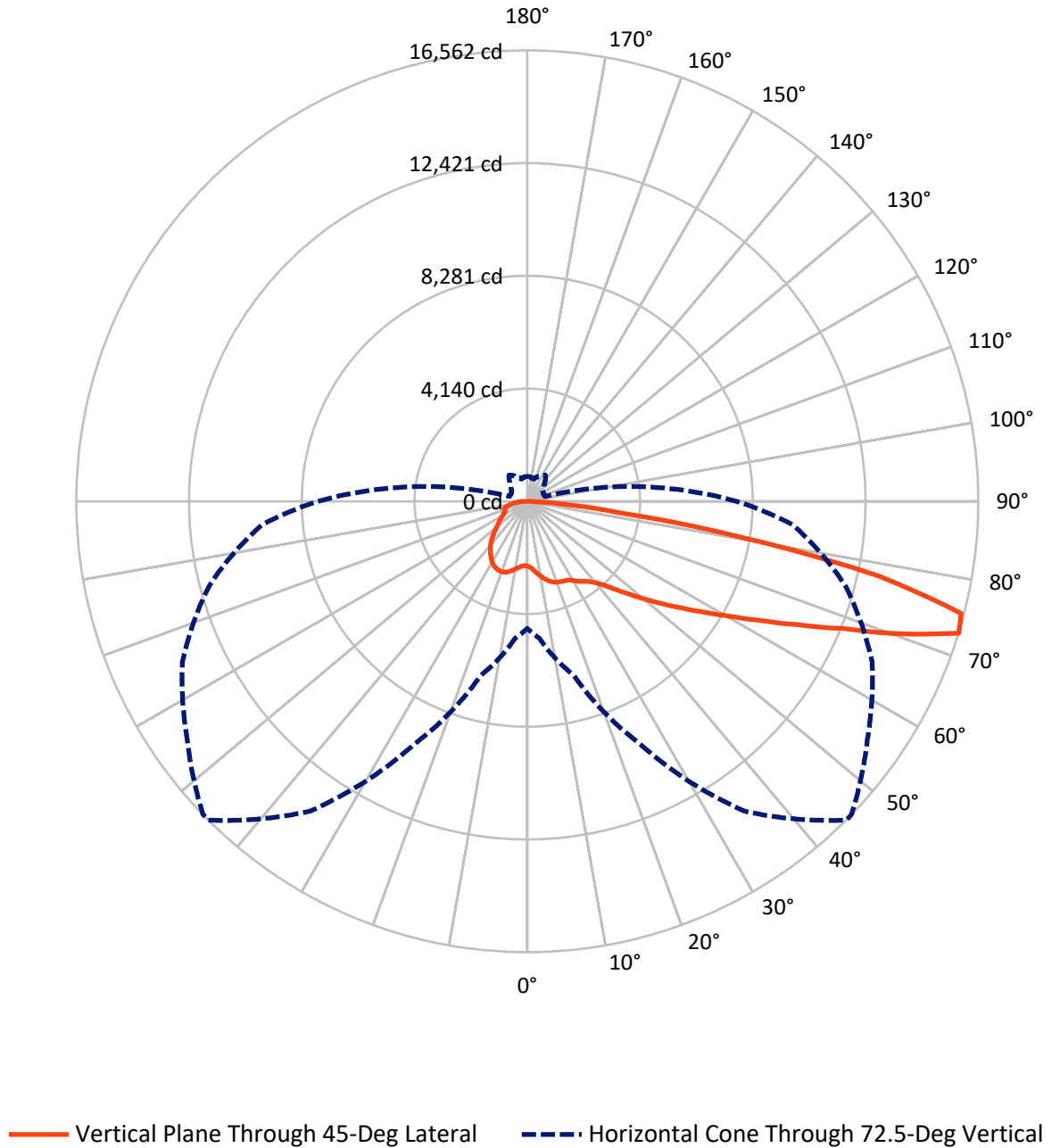
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	5337.0	0.0	5337.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18271.0	0.0	18271.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	23608.0	0.0	23608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	1.0
10°-20°	808.2	3.4
20°-30°	1405.9	6.0
30°-40°	2015.4	8.5
40°-50°	2837.8	12.0
50°-60°	4346.7	18.4
60°-70°	6296.9	26.7
70°-80°	5028.4	21.3
80°-90°	626.3	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°	23608.0	100.0
0°-180°	23608.0	100.0

Coefficient of Utilization



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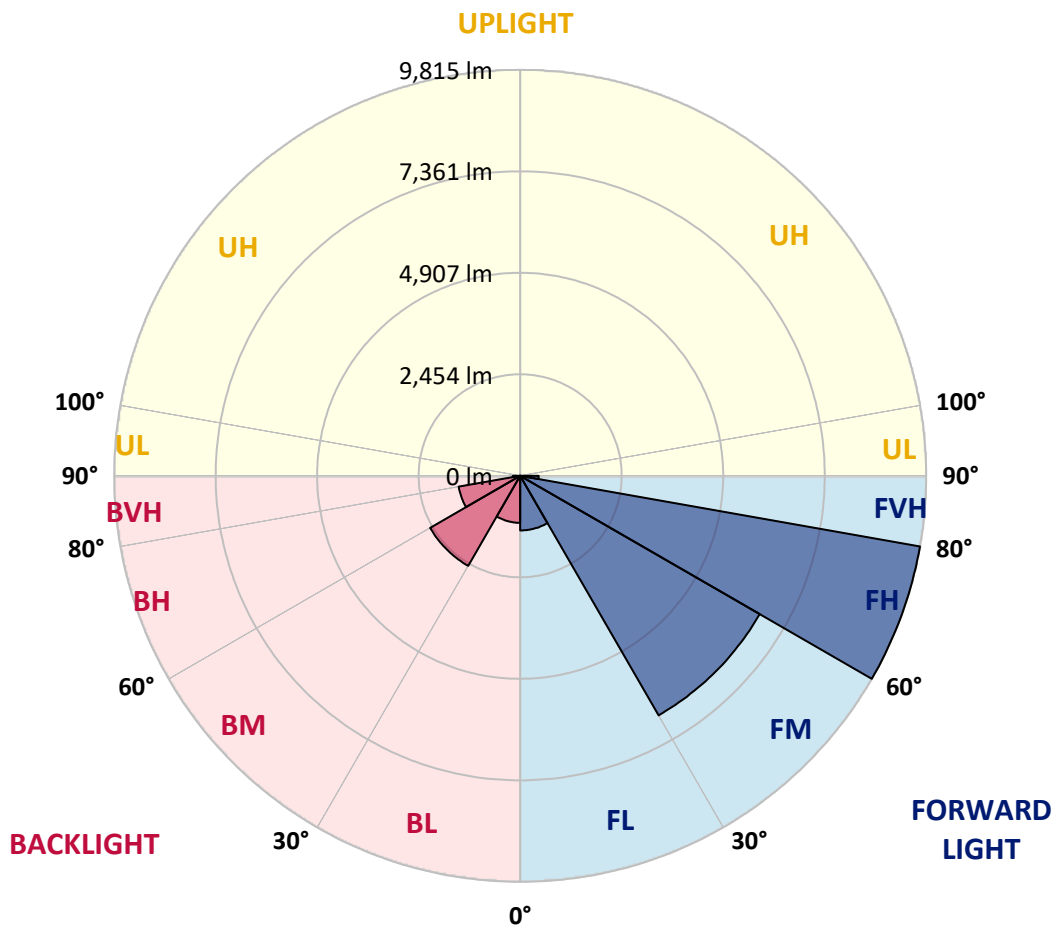
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.2	5.6			
FM (30°-60°)	6687.0	28.3			
FH (60°-80°)	9814.5	41.6			G4/12000
FVH (80°-90°)	449.3	1.9			G3/500
BL (0°-30°)	1136.3	4.8	B3/2500		
BM (30°-60°)	2512.9	10.6	B3/5000		
BH (60°-80°)	1510.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	177.0	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°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2474.9	2491.0	2476.1	2462.4	2456.2	2440.0	2438.8	2428.8	2422.6	2405.2
5°	2647.7	2668.9	2644.0	2616.6	2591.8	2552.0	2547.0	2518.4	2486.1	2448.7
7.5°	2843.0	2861.6	2833.0	2792.0	2748.5	2682.6	2681.3	2629.1	2578.1	2514.7
10°	3013.4	3038.2	2999.7	2943.7	2889.0	2814.4	2805.7	2746.0	2681.3	2599.2
12.5°	3163.8	3181.3	3143.9	3075.5	3012.1	2937.5	2926.3	2860.4	2788.3	2695.0
15°	3283.2	3305.6	3255.9	3182.5	3115.3	3042.0	3032.0	2972.3	2900.2	2801.9
17.5°	3361.6	3380.2	3329.2	3247.2	3182.5	3121.6	3114.1	3064.4	3000.9	2901.4
20°	3391.4	3411.3	3357.9	3274.5	3214.8	3167.6	3163.8	3127.8	3084.2	2993.5
22.5°	3421.3	3439.9	3370.3	3283.2	3231.0	3201.2	3199.9	3176.3	3158.9	3084.2
25°	3541.9	3546.9	3453.6	3328.0	3253.4	3227.3	3226.0	3224.8	3232.2	3173.8
27.5°	3646.4	3645.1	3565.5	3447.4	3331.7	3277.0	3275.8	3288.2	3311.8	3263.3
30°	3799.3	3785.7	3691.2	3568.0	3462.3	3377.8	3370.3	3359.1	3377.8	3339.2
32.5°	4123.9	4080.4	3927.4	3708.6	3570.5	3505.8	3495.9	3426.3	3433.7	3410.1
35°	4589.1	4531.9	4327.9	3974.7	3704.8	3612.8	3607.8	3519.5	3504.6	3483.5
37.5°	5142.5	5071.6	4834.1	4360.2	3936.1	3737.2	3729.7	3650.1	3589.2	3566.8
40°	5698.4	5608.9	5412.4	4830.3	4276.9	3944.9	3921.2	3800.6	3730.9	3693.6
42.5°	6238.1	6163.5	5995.6	5357.6	4697.3	4248.3	4196.1	3989.6	3937.4	3902.6
45°	6715.7	6648.5	6525.4	5921.0	5189.7	4661.2	4610.2	4273.2	4257.0	4257.0
47.5°	7103.7	7088.8	6958.2	6495.6	5770.5	5131.3	5043.0	4667.4	4710.9	4778.1
50°	7534.0	7493.0	7353.7	7061.4	6453.3	5669.8	5597.7	5151.2	5314.1	5498.2
52.5°	7929.5	7951.9	7796.4	7650.9	7224.4	6270.5	6143.6	5722.0	6074.0	6378.7
55°	8336.2	8337.4	8293.9	8274.0	8032.7	6934.6	6795.3	6408.5	6968.2	7346.2
57.5°	8718.0	8720.5	8785.1	8960.5	8970.4	7700.7	7542.7	7251.7	7961.8	8347.4
60°	9058.7	9076.1	9252.7	9663.2	9795.0	8578.7	8429.5	8247.9	8989.1	9377.1
62.5°	9173.2	9236.6	9629.6	10212.8	10609.6	9655.7	9508.9	9400.7	10068.6	10429.2
65°	8979.1	9124.7	9884.5	10666.8	11447.8	10935.4	10789.9	10671.8	11190.4	11529.9
67.5°	8502.8	8690.6	9869.6	11143.1	12465.1	12475.0	12339.5	12062.2	12393.0	12523.5
70°	7248.0	7529.1	9000.3	11320.9	13632.9	14580.5	14450.0	13736.1	13593.1	12961.3
72.5°	4669.9	5048.0	6627.4	9857.2	13892.8	16561.7	16554.2	15247.1	13972.4	12110.7
75°	1703.8	1935.1	3079.3	6187.2	11661.7	16460.9	16509.4	14988.5	12754.9	9354.7
77.5°	620.6	679.0	1004.9	2377.9	7172.1	13207.6	13308.3	11982.6	9078.6	4694.8
80°	325.8	358.2	514.9	922.8	3073.1	7843.7	8001.6	7121.1	4267.0	1414.0
82.5°	180.3	195.3	288.5	501.2	1384.2	3354.1	3448.6	2813.1	1501.1	599.4
85°	97.0	103.2	135.6	273.6	676.5	1162.8	1188.9	840.7	598.2	352.0
87.5°	28.6	34.8	44.8	87.1	264.9	261.2	267.4	166.6	236.3	177.8
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°
2381.6	0°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2400.2	2.5°	2392.8	2389.0	2375.4	2369.2	2361.7	2360.4	2366.7	2367.9	2369.2	2370.4
2427.6	5°	2415.2	2402.7	2390.3	2382.8	2385.3	2386.6	2399.0	2407.7	2413.9	2418.9
2478.6	7.5°	2458.7	2448.7	2427.6	2426.4	2430.1	2441.3	2457.5	2477.3	2488.5	2497.2
2544.5	10°	2523.4	2504.7	2479.8	2483.6	2491.0	2507.2	2540.8	2556.9	2575.6	2591.8
2625.3	12.5°	2589.3	2573.1	2544.5	2547.0	2559.4	2588.0	2620.4	2640.3	2652.7	2665.1
2712.4	15°	2675.1	2646.5	2615.4	2615.4	2637.8	2668.9	2683.8	2700.0	2707.4	2721.1
2805.7	17.5°	2763.4	2726.1	2685.0	2682.6	2709.9	2724.8	2733.5	2736.0	2738.5	2753.4
2896.5	20°	2851.7	2810.6	2752.2	2747.2	2753.4	2751.0	2749.7	2747.2	2751.0	2769.6
2989.7	22.5°	2938.7	2891.5	2810.6	2788.3	2770.8	2747.2	2746.0	2744.7	2747.2	2765.9
3090.5	25°	3040.7	2983.5	2875.3	2808.2	2749.7	2717.4	2721.1	2722.3	2724.8	2739.8
3194.9	27.5°	3151.4	3088.0	2935.0	2801.9	2696.2	2673.8	2667.6	2671.4	2680.1	2703.7
3299.4	30°	3262.1	3187.5	2989.7	2777.1	2629.1	2598.0	2578.1	2586.8	2614.2	2637.8
3390.2	32.5°	3362.8	3288.2	3033.3	2722.3	2543.3	2494.8	2468.6	2479.8	2507.2	2515.9
3490.9	35°	3481.0	3396.4	3051.9	2635.3	2450.0	2375.4	2340.5	2324.4	2338.1	2329.4
3609.1	37.5°	3612.8	3524.5	3049.4	2520.9	2340.5	2254.7	2206.2	2145.3	2116.7	2086.8
3783.2	40°	3808.1	3681.2	3019.6	2382.8	2205.0	2126.6	2039.6	1936.4	1871.7	1813.2
4064.2	42.5°	4074.2	3898.8	2964.9	2231.1	2052.0	1978.6	1860.5	1739.9	1637.9	1540.9
4490.8	45°	4470.9	4183.6	2896.5	2069.4	1886.6	1814.5	1686.4	1550.8	1435.2	1310.8
5096.5	47.5°	5043.0	4566.7	2831.8	1885.4	1712.5	1646.6	1530.9	1405.3	1268.5	1147.9
5972.0	50°	5829.0	5116.4	2772.1	1706.3	1540.9	1491.1	1399.1	1271.0	1133.0	1036.0
6998.0	52.5°	6828.9	5863.8	2747.2	1533.4	1380.5	1361.8	1288.4	1169.0	1038.4	956.4
8194.4	55°	7976.8	6758.0	2747.2	1368.0	1239.9	1246.1	1195.1	1084.5	971.3	897.9
9428.1	57.5°	9148.3	7663.4	2697.5	1215.0	1120.5	1146.6	1114.3	1017.3	915.3	839.5
10725.2	60°	10227.8	8422.0	2496.0	1075.8	1014.8	1055.9	1034.7	951.4	827.0	763.6
11809.7	62.5°	11057.3	8849.8	2108.0	965.1	927.8	975.0	963.8	864.3	810.9	784.7
12700.1	65°	11472.7	8780.2	1611.8	866.8	854.4	927.8	904.1	900.4	858.1	828.3
12989.9	67.5°	11217.7	8180.7	1169.0	794.7	812.1	884.2	975.0	989.9	911.6	853.1
12174.1	70°	10099.7	7096.3	870.6	726.3	758.6	885.5	1111.8	1036.0	894.2	825.8
9763.9	72.5°	7683.3	5291.7	675.3	654.2	689.0	891.7	1172.8	1014.8	844.4	912.8
6082.7	75°	4393.8	2905.2	542.2	565.9	601.9	833.2	1141.7	960.1	805.9	838.2
2410.2	77.5°	1675.2	1116.8	447.7	478.8	483.8	727.5	1091.9	956.4	767.3	748.7
722.6	80°	580.8	436.5	370.6	380.6	374.3	646.7	1047.2	832.0	628.0	562.1
298.5	82.5°	237.5	217.6	293.5	281.1	266.1	502.4	845.7	680.3	513.6	453.9
144.3	85°	103.2	138.0	194.0	170.4	154.2	348.2	677.8	575.8	434.0	374.3
47.3	87.5°	21.1	52.2	82.1	77.1	79.6	232.6	481.3	409.2	307.2	230.1
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°
2381.6
2375.4
2421.4
2499.7
2588.0
2670.1
2726.1
2758.4
2777.1
2778.3
2759.7
2727.3
2663.9
2547.0
2356.7
2105.5
1817.0
1532.2
1295.9
1134.2
1029.7
950.1
890.5
827.0
753.7
776.0
818.3
843.2
814.6
905.4
838.2
682.8
543.5
449.0
373.1
180.3
0.0

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