

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: P949109

Luminaire Tested: **GALN-SB3D-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

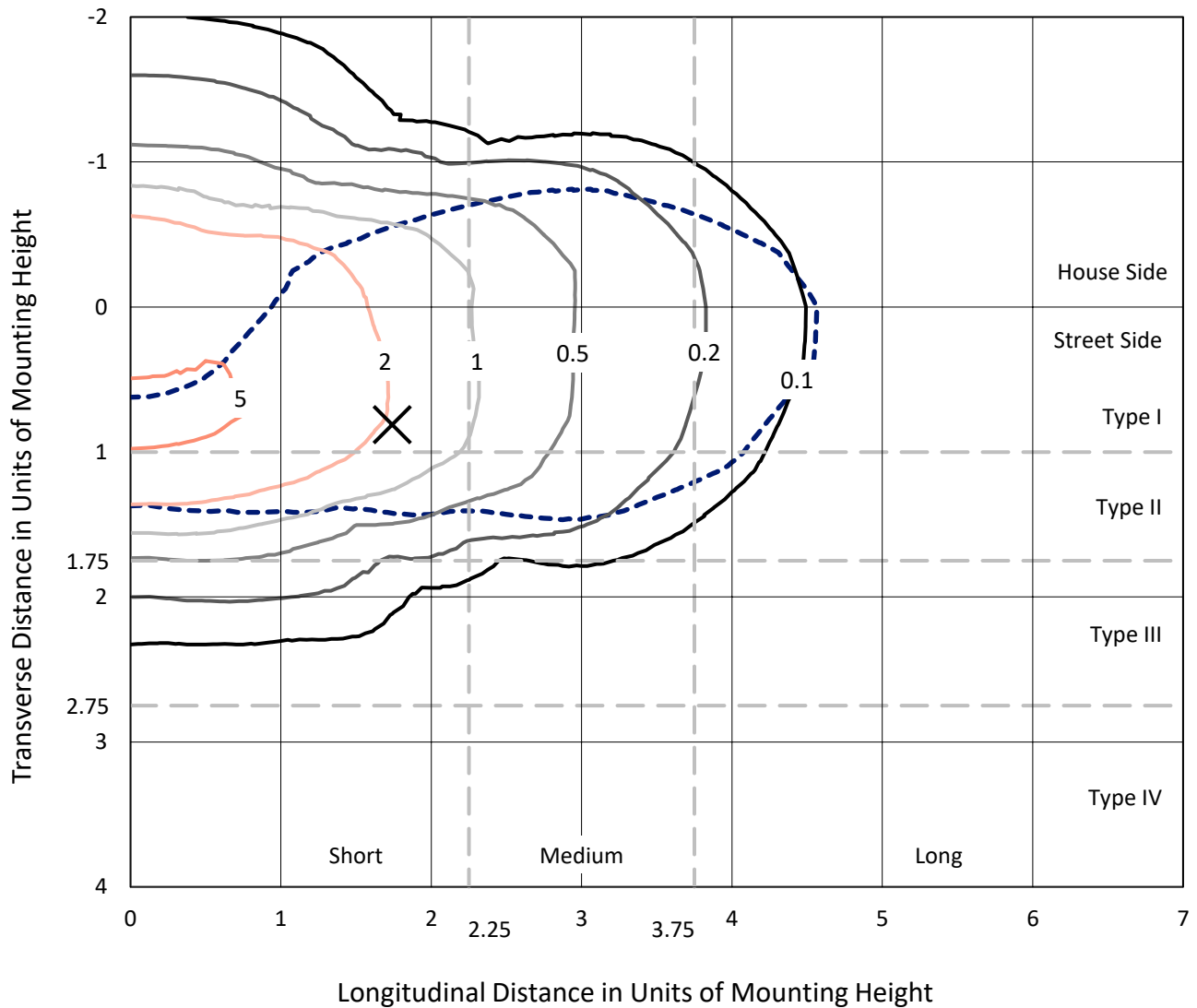
Lumens per Lamp: N/A  
Luminaire Lumens: 21524 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

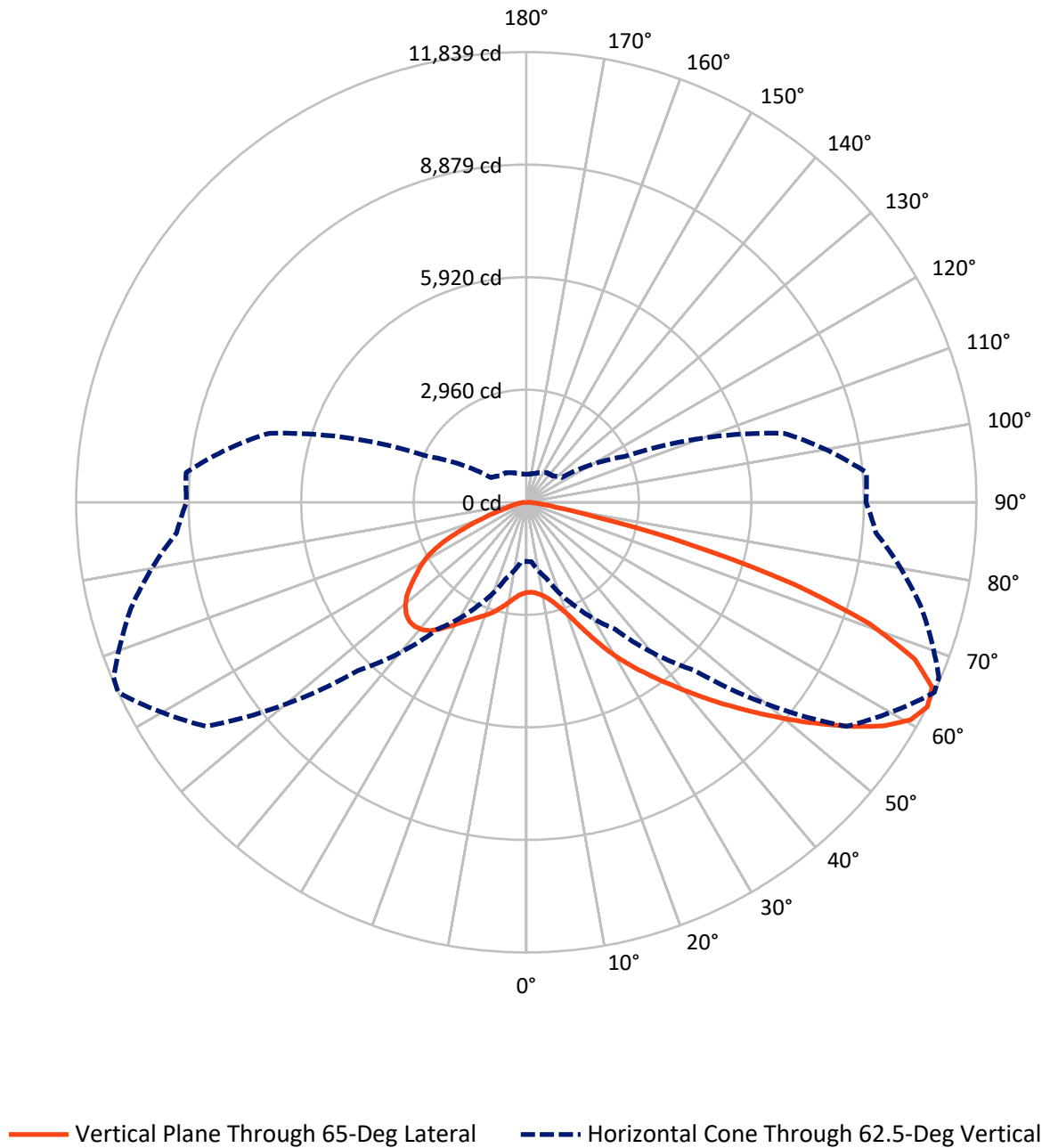
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6792.0	0.0	6792.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14732.0	0.0	14732.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	21524.0	0.0	21524.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.5	1.1
10°-20°	801.9	3.7
20°-30°	1625.9	7.6
30°-40°	2813.6	13.1
40°-50°	4257.9	19.8
50°-60°	4992.1	23.2
60°-70°	4185.3	19.4
70°-80°	2310.6	10.7
80°-90°	300.1	1.4
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°	21524.0	100.0
0°-180°	21524.0	100.0



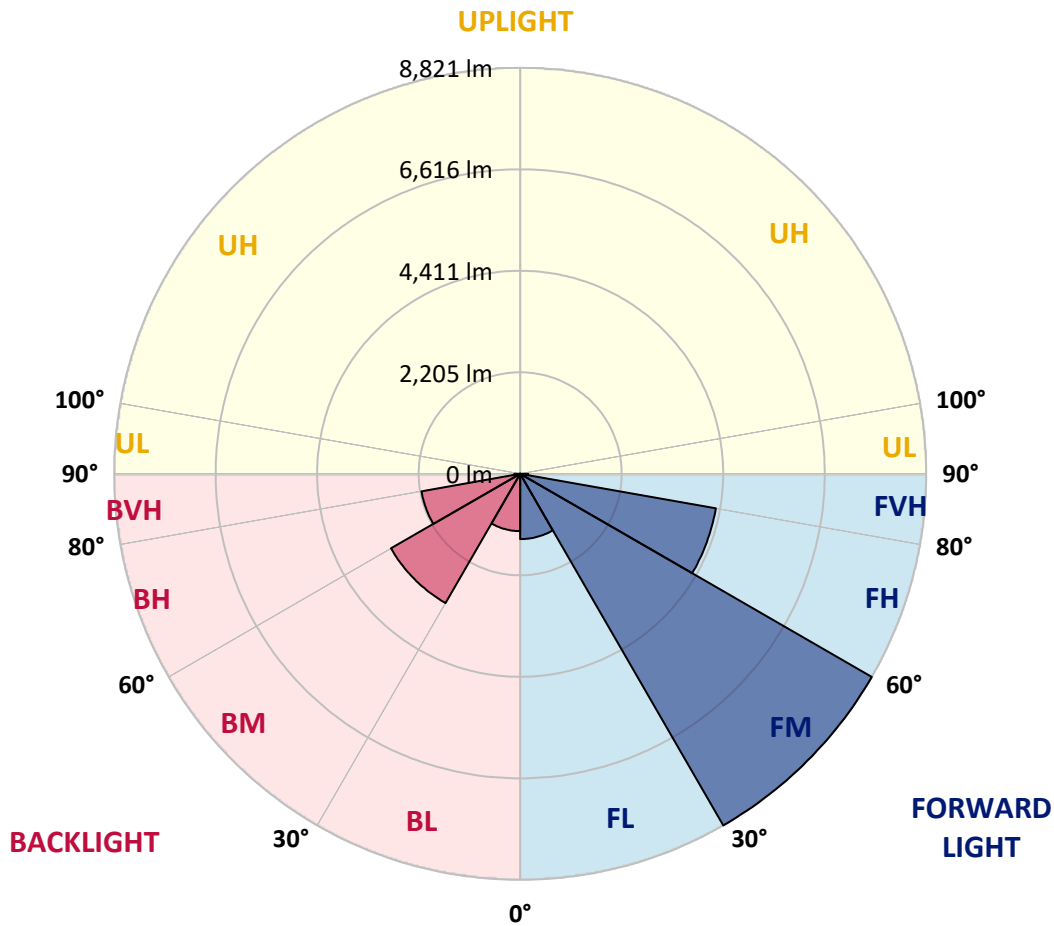
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.7	6.6			
FM (30°-60°)	8821.2	41.0			
FH (60°-80°)	4317.1	20.1			G2/5000
FVH (80°-90°)	174.9	0.8			G2/225
BL (0°-30°)	1245.6	5.8	B3/2500		
BM (30°-60°)	3242.4	15.1	B3/5000		
BH (60°-80°)	2178.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	125.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2356.2	2349.5	2355.1	2355.1	2357.3	2356.2	2364.0	2366.3	2369.6	2376.3
5°	2332.8	2331.7	2341.7	2350.6	2359.6	2367.4	2377.4	2392.0	2394.2	2402.0
7.5°	2325.0	2318.3	2333.9	2345.1	2366.3	2385.3	2412.1	2436.6	2446.7	2450.0
10°	2385.3	2374.1	2388.6	2395.3	2413.2	2432.2	2463.4	2502.5	2513.7	2527.1
12.5°	2488.0	2475.7	2496.9	2507.0	2523.7	2540.5	2561.7	2599.7	2605.2	2629.8
15°	2628.7	2614.2	2627.6	2639.9	2667.8	2683.4	2704.6	2741.5	2741.5	2760.5
17.5°	2819.6	2800.7	2810.7	2815.2	2833.0	2856.5	2892.2	2924.6	2941.4	2934.7
20°	3104.4	3081.0	3081.0	3058.6	3051.9	3070.9	3117.8	3162.5	3180.3	3145.7
22.5°	3532.1	3498.6	3479.6	3403.7	3373.5	3375.8	3422.7	3477.4	3491.9	3430.5
25°	4075.9	4023.4	3997.8	3886.1	3818.0	3758.8	3795.6	3866.0	3886.1	3810.1
27.5°	4619.8	4623.1	4598.5	4464.5	4351.7	4243.4	4224.4	4298.1	4319.4	4233.4
30°	5382.5	5303.2	5256.3	5095.5	4934.7	4782.8	4704.6	4734.8	4740.4	4637.6
32.5°	6040.2	6020.1	5919.6	5778.9	5572.3	5334.4	5203.8	5155.8	5146.8	5000.5
35°	6789.5	6778.3	6672.2	6504.7	6281.4	5950.8	5715.2	5577.9	5566.7	5361.2
37.5°	7551.1	7551.1	7447.2	7264.1	7032.9	6619.7	6261.3	6043.5	6007.8	5739.8
40°	8158.5	8121.7	8140.7	8063.6	7799.0	7360.1	6867.6	6551.6	6503.6	6182.0
42.5°	8503.6	8491.3	8605.2	8691.2	8582.9	8232.2	7535.4	7102.2	7035.2	6668.9
45°	8580.7	8567.3	8770.5	9085.4	9237.3	9093.2	8261.3	7681.7	7600.2	7178.1
47.5°	8403.1	8376.3	8674.5	9171.4	9658.3	9911.7	9047.4	8310.4	8192.0	7673.9
50°	7869.3	7843.6	8294.8	8954.7	9800.1	10467.9	9900.6	8977.1	8796.2	8205.4
52.5°	6709.1	6721.4	7428.2	8335.0	9613.6	10814.0	10635.4	9679.5	9461.7	8749.3
55°	5226.1	5252.9	6121.7	7120.0	8867.6	10761.6	11136.8	10403.1	10186.5	9260.7
57.5°	3742.0	3860.4	4674.5	5662.7	7434.9	9929.6	11246.2	11091.0	10881.0	9819.1
60°	2425.5	2446.7	3284.2	4280.3	5661.6	8451.1	11024.0	11612.5	11448.3	10388.6
62.5°	1554.4	1569.0	2079.3	2993.8	4074.8	6252.4	10275.8	11839.2	11788.9	10764.9
65°	1142.4	1131.2	1397.0	1978.8	2744.8	3855.9	8823.0	11729.7	11829.1	11000.5
67.5°	953.7	938.0	1068.7	1370.2	2022.3	2189.8	6528.2	11018.4	11382.4	10973.7
70°	868.8	855.4	934.7	1017.3	1577.9	1466.2	3290.9	9579.0	10139.6	10668.9
72.5°	735.9	712.4	820.8	903.4	1227.2	1124.5	1360.1	7357.9	8041.3	9691.8
75°	570.6	555.0	647.7	795.1	922.4	877.7	859.9	4467.9	5213.8	7495.2
77.5°	452.3	431.0	515.9	619.8	829.7	662.2	626.5	1924.1	2663.3	4785.0
80°	340.6	321.6	392.0	490.2	637.6	499.2	405.4	785.0	1003.9	2424.3
82.5°	242.3	225.6	273.6	359.6	428.8	447.8	249.0	440.0	494.7	934.7
85°	155.2	145.2	183.1	225.6	272.5	288.1	151.9	230.0	252.4	385.3
87.5°	84.9	69.2	98.3	105.0	126.2	115.0	72.6	83.8	90.5	139.6
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°
2371.9	0°	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9	2371.9
2376.3	2.5°	2380.8	2384.1	2395.3	2398.7	2406.5	2416.5	2423.2	2429.9	2429.9	2436.6
2412.1	5°	2413.2	2421.0	2444.4	2456.7	2476.8	2496.9	2509.2	2523.7	2532.7	2537.1
2469.0	7.5°	2475.7	2488.0	2521.5	2542.7	2577.3	2605.2	2624.2	2644.3	2648.8	2661.1
2548.3	10°	2560.6	2575.1	2613.1	2653.3	2694.6	2729.2	2747.1	2761.6	2767.2	2769.4
2649.9	12.5°	2657.7	2678.9	2728.1	2777.2	2820.8	2850.9	2855.4	2852.0	2836.4	2823.0
2775.0	15°	2777.2	2796.2	2850.9	2904.5	2946.9	2952.5	2924.6	2906.7	2887.8	2884.4
2914.6	17.5°	2920.1	2930.2	2980.4	3032.9	3036.3	3017.3	2976.0	2959.2	2941.4	2929.1
3096.6	20°	3086.5	3083.2	3118.9	3141.3	3117.8	3059.7	2997.2	2969.3	2951.4	2936.9
3319.9	22.5°	3285.3	3259.6	3255.2	3249.6	3187.0	3065.3	2980.4	2944.7	2916.8	2896.7
3631.5	25°	3574.5	3476.3	3408.1	3370.2	3229.5	3035.2	2926.8	2847.6	2795.1	2760.5
4012.3	27.5°	3936.3	3771.1	3599.1	3506.4	3229.5	2973.7	2797.3	2668.9	2582.9	2547.2
4380.8	30°	4281.4	4108.3	3854.8	3670.6	3221.7	2873.2	2588.5	2409.8	2309.3	2273.6
4695.7	32.5°	4576.2	4387.5	4126.2	3850.4	3202.7	2710.2	2329.4	2131.8	2034.6	1992.2
5007.2	35°	4849.8	4648.8	4398.6	4048.0	3152.4	2471.2	2044.7	1893.9	1785.6	1717.5
5324.4	37.5°	5130.1	4891.1	4656.6	4226.7	3062.0	2192.1	1825.8	1697.4	1570.1	1478.5
5661.6	40°	5434.9	5149.1	4932.4	4332.8	2913.4	1926.3	1656.1	1538.8	1403.7	1306.5
6050.2	42.5°	5791.2	5458.4	5239.5	4387.5	2710.2	1737.6	1545.5	1430.5	1303.2	1223.9
6466.8	45°	6163.0	5799.0	5519.8	4386.4	2483.5	1649.4	1509.8	1395.9	1255.2	1172.5
6894.4	47.5°	6552.7	6155.2	5762.1	4314.9	2287.0	1661.6	1489.7	1321.0	1165.8	1085.4
7326.6	50°	6943.6	6544.9	5996.6	4180.9	2203.2	1634.8	1414.8	1216.1	1032.9	960.4
7732.0	52.5°	7331.1	6959.2	6198.8	3989.9	2118.4	1535.4	1318.8	1079.8	978.2	928.0
8150.7	55°	7720.8	7369.0	6418.7	3711.9	1906.2	1419.3	1158.0	1028.5	934.7	888.9
8560.6	57.5°	8111.6	7842.5	6627.6	3433.8	1639.3	1276.4	1069.8	965.9	891.1	852.0
8903.4	60°	8518.1	8384.1	6843.1	3178.1	1375.8	1093.2	1005.0	915.7	839.8	796.2
9232.8	62.5°	8936.9	8980.4	7011.7	2848.7	1133.4	981.6	947.0	855.4	781.7	740.4
9505.3	65°	9359.0	9555.5	7122.3	2392.0	919.0	875.5	884.4	789.5	714.7	678.9
9705.2	67.5°	9677.2	9969.8	7091.0	1810.2	753.8	775.0	806.3	720.3	649.9	622.0
9672.8	70°	9713.0	9920.7	6782.8	1239.5	630.9	676.7	719.1	652.1	579.6	559.5
9217.2	72.5°	9237.3	9250.7	5924.0	809.6	533.8	594.1	627.6	582.9	512.6	492.5
8063.6	75°	7989.9	7650.4	4349.5	533.8	446.7	510.3	541.6	510.3	442.2	446.7
6033.5	77.5°	6053.6	5418.2	2641.0	379.7	373.0	428.8	471.2	448.9	390.8	438.9
3034.0	80°	3118.9	2931.3	1178.1	283.6	294.8	342.8	387.5	358.5	309.3	294.8
677.8	82.5°	714.7	830.8	464.5	203.2	213.3	246.8	295.9	269.1	222.2	187.6
282.5	85°	250.1	273.6	205.5	127.3	125.1	154.1	201.0	179.8	150.8	120.6
119.5	87.5°	79.3	103.9	77.1	51.4	53.6	69.2	92.7	84.9	70.4	45.8
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°
2371.9
2436.6
2539.4
2656.6
2763.8
2823.0
2884.4
2930.2
2938.0
2903.4
2773.9
2565.0
2294.8
2013.4
1739.8
1503.1
1325.5
1239.5
1185.9
1096.6
964.8
928.0
884.4
845.3
792.9
739.2
677.8
623.1
560.6
491.3
431.0
386.4
269.1
185.4
127.3
48.0
0.0

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