

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: P947429

Luminaire Tested: **GALN-SB2D-740-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947429  
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-SB2D-740-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

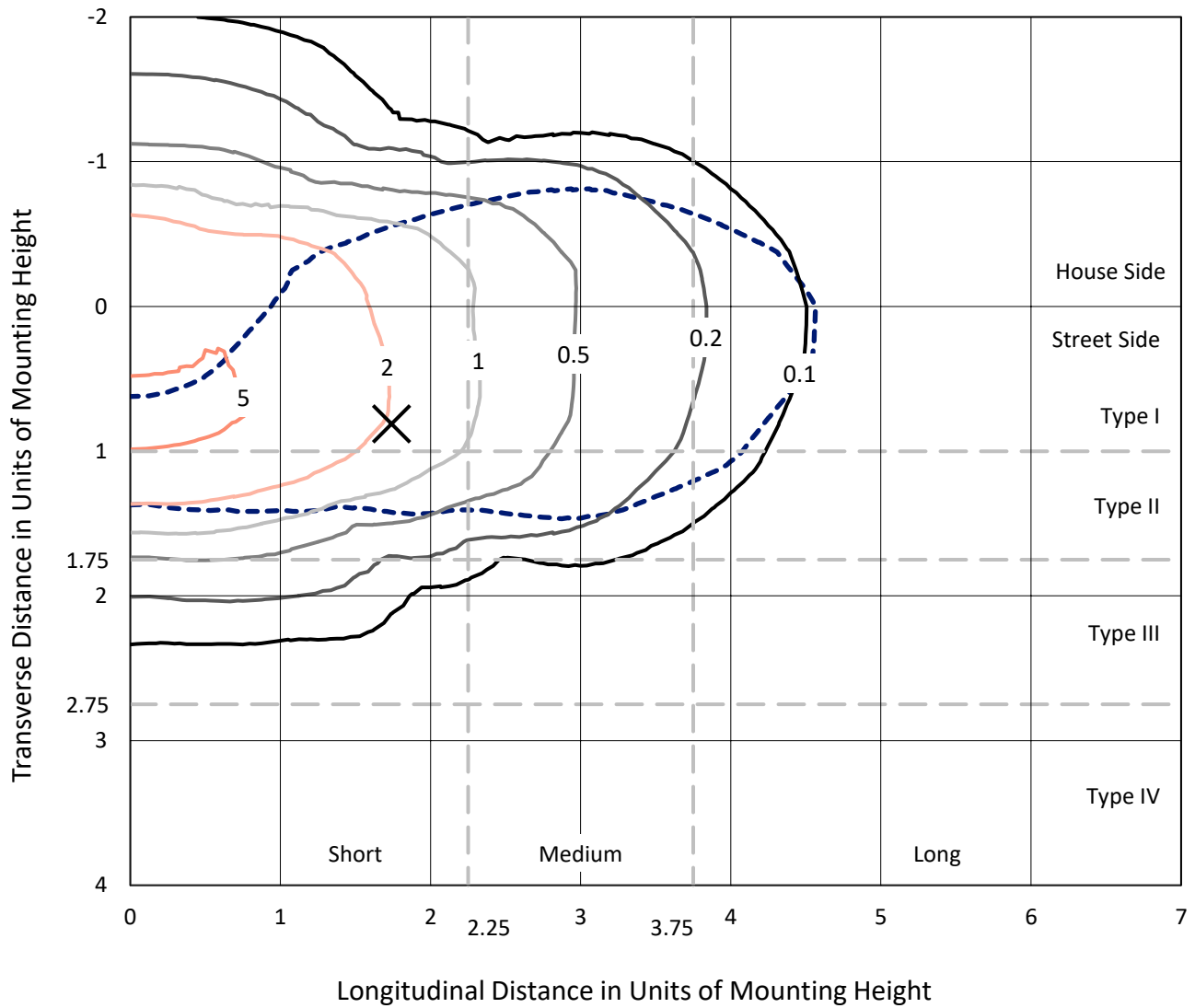
Lumens per Lamp: N/A  
Luminaire Lumens: 21819 lumens  
Efficiency: N/A  
Efficacy: 147.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

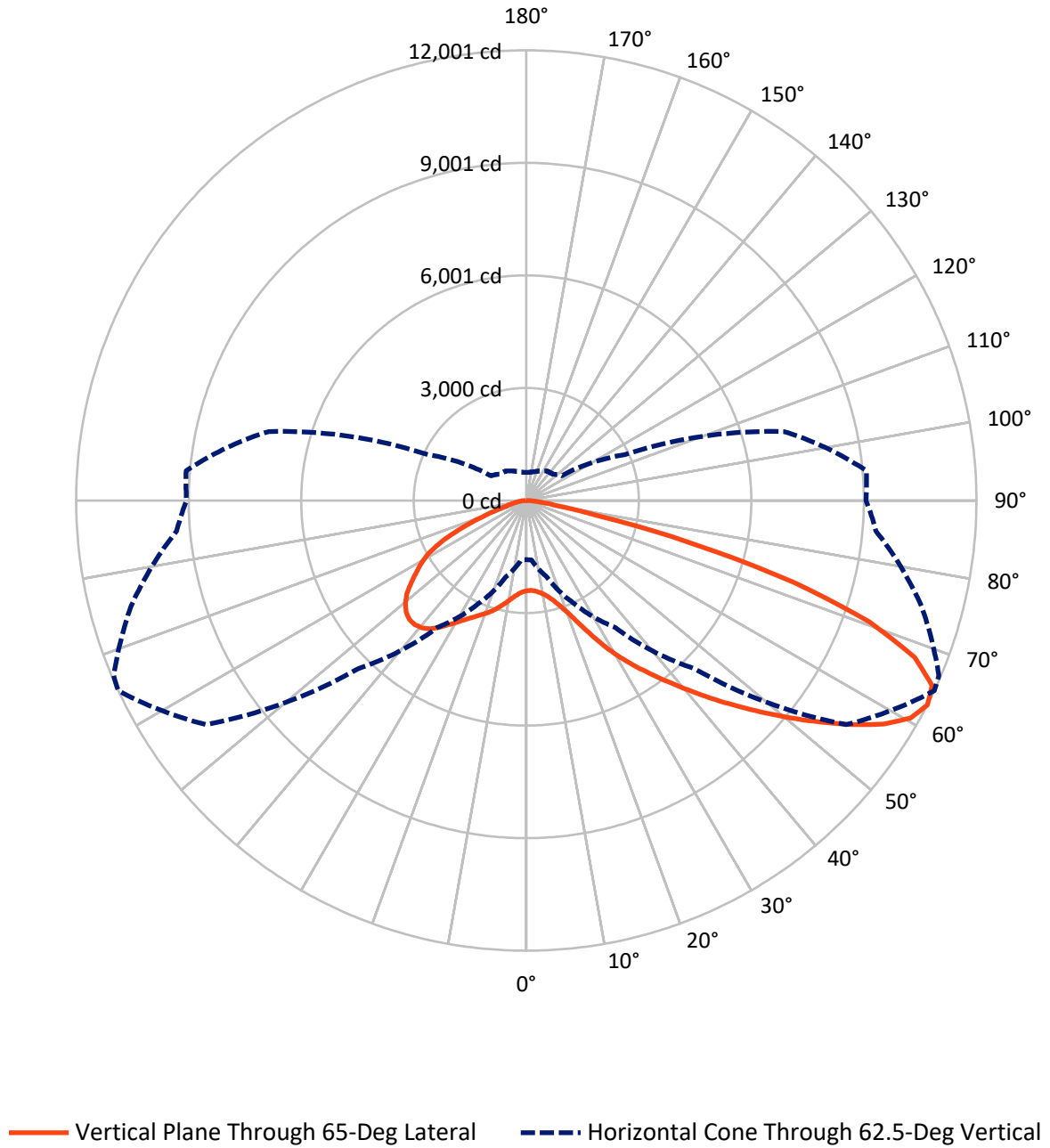
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6885.1	0.0	6885.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14933.9	0.0	14933.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	21819.0	0.0	21819.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.7	1.1
10°-20°	812.9	3.7
20°-30°	1648.2	7.6
30°-40°	2852.2	13.1
40°-50°	4316.3	19.8
50°-60°	5060.5	23.2
60°-70°	4242.6	19.4
70°-80°	2342.3	10.7
80°-90°	304.3	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°	21819.0	100.0
0°-180°	21819.0	100.0

**Coefficient of Utilization**



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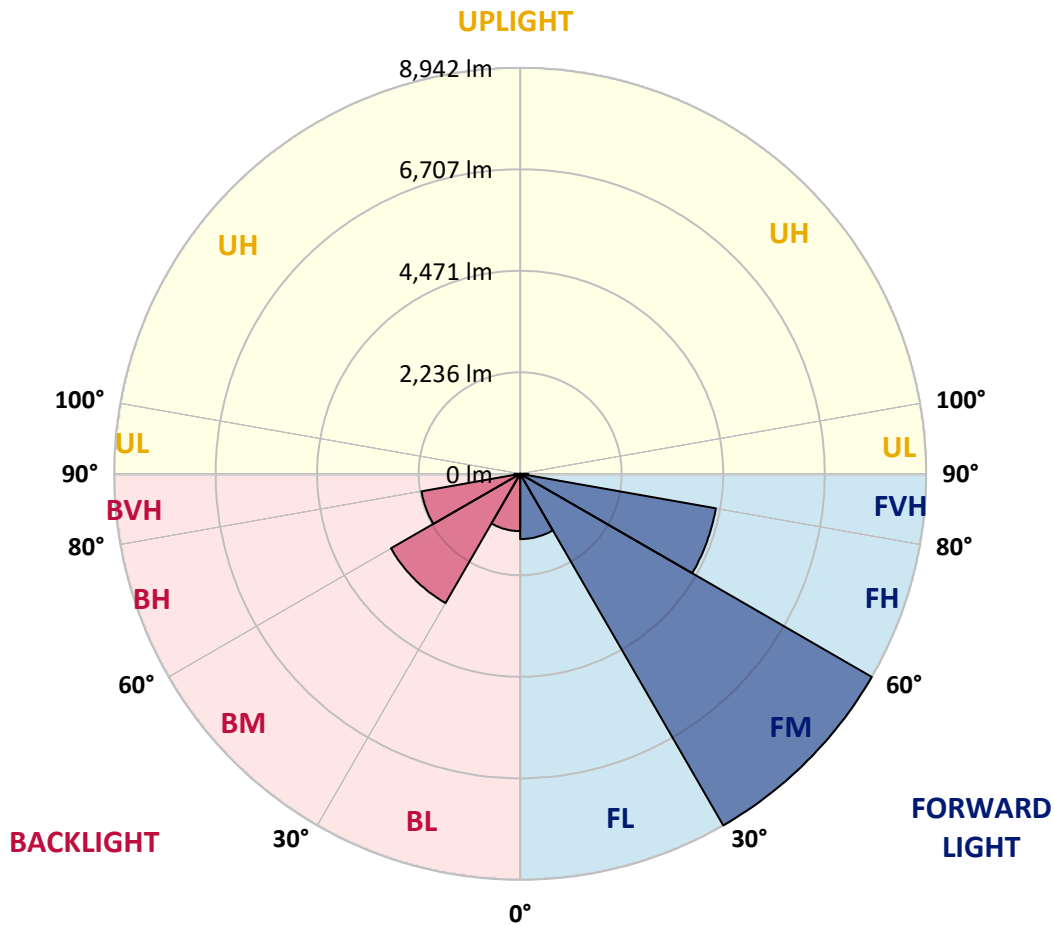
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.2	6.6			
FM (30°-60°)	8942.1	41.0			
FH (60°-80°)	4376.2	20.1			G2/5000
FVH (80°-90°)	177.3	0.8			G2/225
BL (0°-30°)	1262.6	5.8	B3/2500		
BM (30°-60°)	3286.9	15.1	B3/5000		
BH (60°-80°)	2208.7	10.1	B3/2500		G3/2500
BVH (80°-90°)	126.9	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°	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4
2.5°	2388.5	2381.7	2387.4	2387.4	2389.6	2388.5	2396.4	2398.7	2402.1	2408.9
5°	2364.7	2363.6	2373.8	2382.9	2391.9	2399.8	2410.0	2424.7	2427.0	2434.9
7.5°	2356.8	2350.0	2365.9	2377.2	2398.7	2417.9	2445.1	2470.0	2480.2	2483.6
10°	2417.9	2406.6	2421.3	2428.1	2446.2	2465.5	2497.2	2536.8	2548.1	2561.7
12.5°	2522.1	2509.6	2531.1	2541.3	2558.3	2575.3	2596.8	2635.3	2640.9	2665.9
15°	2664.7	2650.0	2663.6	2676.0	2704.3	2720.2	2741.7	2779.0	2779.0	2798.3
17.5°	2858.3	2839.0	2849.2	2853.8	2871.9	2895.6	2931.9	2964.7	2981.7	2974.9
20°	3146.9	3123.2	3123.2	3100.5	3093.7	3113.0	3160.5	3205.8	3223.9	3188.8
22.5°	3580.5	3546.5	3527.3	3450.3	3419.8	3422.0	3469.6	3525.0	3539.8	3477.5
25°	4131.8	4078.6	4052.5	3939.3	3870.3	3810.3	3847.7	3919.0	3939.3	3862.4
27.5°	4683.1	4686.5	4661.6	4525.7	4411.4	4301.6	4282.3	4357.1	4378.6	4291.4
30°	5456.2	5375.8	5328.3	5165.3	5002.3	4848.3	4769.1	4799.7	4805.3	4701.2
32.5°	6123.0	6102.6	6000.7	5858.1	5648.7	5407.5	5275.1	5226.4	5217.4	5069.1
35°	6882.5	6871.2	6763.7	6593.9	6367.5	6032.4	5793.6	5654.3	5643.0	5434.7
37.5°	7654.6	7654.6	7549.3	7363.6	7129.3	6710.5	6347.1	6126.4	6090.1	5818.5
40°	8270.4	8233.0	8252.2	8174.1	7905.9	7461.0	6961.8	6641.4	6592.7	6266.7
42.5°	8620.1	8607.7	8723.2	8810.3	8700.5	8345.1	7638.7	7199.5	7131.6	6760.3
45°	8698.3	8684.7	8890.7	9209.9	9363.9	9217.8	8374.5	7787.0	7704.4	7276.5
47.5°	8518.3	8491.1	8793.3	9297.1	9790.6	10047.6	9171.4	8424.3	8304.3	7779.1
50°	7977.2	7951.1	8408.5	9077.5	9934.4	10611.3	10036.3	9100.1	8916.7	8317.9
52.5°	6801.0	6813.5	7530.0	8449.2	9745.4	10962.2	10781.1	9812.1	9591.4	8869.2
55°	5297.7	5324.9	6205.6	7217.6	8989.2	10909.0	11289.4	10545.7	10326.1	9387.6
57.5°	3793.3	3913.3	4738.5	5740.4	7536.8	10065.7	11400.3	11243.0	11030.2	9953.6
60°	2458.7	2480.2	3329.2	4338.9	5739.2	8566.9	11175.1	11771.6	11605.2	10531.0
62.5°	1575.7	1590.5	2107.8	3034.9	4130.7	6338.0	10416.6	12001.4	11950.5	10912.4
65°	1158.0	1146.7	1416.1	2005.9	2782.4	3908.8	8943.9	11890.5	11991.2	11151.3
67.5°	966.7	950.9	1083.3	1389.0	2050.0	2219.8	6617.6	11169.4	11538.4	11124.1
70°	880.7	867.1	947.5	1031.2	1599.5	1486.3	3336.0	9710.3	10278.5	10815.1
72.5°	746.0	722.2	832.0	915.8	1244.1	1139.9	1378.8	7458.7	8151.5	9824.6
75°	578.4	562.6	656.6	806.0	935.0	889.7	871.6	4529.1	5285.3	7598.0
77.5°	458.5	437.0	523.0	628.3	841.1	671.3	635.0	1950.4	2699.8	4850.6
80°	345.3	326.0	397.3	496.9	646.4	506.0	410.9	795.8	1017.7	2457.6
82.5°	245.6	228.7	277.3	364.5	434.7	453.9	252.4	446.0	501.5	947.5
85°	157.3	147.2	185.6	228.7	276.2	292.1	154.0	233.2	255.8	390.5
87.5°	86.0	70.2	99.6	106.4	127.9	116.6	73.6	84.9	91.7	141.5
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°
2404.4	0°	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4	2404.4
2408.9	2.5°	2413.4	2416.8	2428.1	2431.5	2439.5	2449.6	2456.4	2463.2	2463.2	2470.0
2445.1	5°	2446.2	2454.2	2477.9	2490.4	2510.8	2531.1	2543.6	2558.3	2567.4	2571.9
2502.8	7.5°	2509.6	2522.1	2556.0	2577.6	2612.6	2640.9	2660.2	2680.6	2685.1	2697.5
2583.2	10°	2595.7	2610.4	2648.9	2689.6	2731.5	2766.6	2784.7	2799.4	2805.1	2807.3
2686.2	12.5°	2694.2	2715.7	2765.5	2815.3	2859.4	2890.0	2894.5	2891.1	2875.3	2861.7
2813.0	15°	2815.3	2834.5	2890.0	2944.3	2987.3	2993.0	2964.7	2946.6	2927.3	2923.9
2954.5	17.5°	2960.2	2970.4	3021.3	3074.5	3077.9	3058.7	3016.8	2999.8	2981.7	2969.2
3139.0	20°	3128.8	3125.4	3161.7	3184.3	3160.5	3101.7	3038.3	3010.0	2991.9	2977.1
3365.4	22.5°	3330.3	3304.3	3299.8	3294.1	3230.7	3107.3	3021.3	2985.1	2956.8	2936.4
3681.3	25°	3623.5	3523.9	3454.9	3416.4	3273.7	3076.8	2967.0	2886.6	2833.4	2798.3
4067.3	27.5°	3990.3	3822.7	3648.4	3554.5	3273.7	3014.5	2835.6	2705.5	2618.3	2582.1
4440.8	30°	4340.1	4164.6	3907.6	3720.9	3265.8	2912.6	2624.0	2442.8	2341.0	2304.7
4760.0	32.5°	4638.9	4447.6	4182.7	3903.1	3246.6	2747.4	2361.3	2161.0	2062.5	2019.5
5075.9	35°	4916.3	4712.5	4458.9	4103.5	3195.6	2505.1	2072.7	1919.9	1810.1	1741.0
5397.4	37.5°	5200.4	4958.1	4720.4	4284.6	3103.9	2222.1	1850.8	1720.6	1591.6	1498.8
5739.2	40°	5509.4	5219.6	5000.0	4392.1	2953.4	1952.7	1678.7	1559.9	1422.9	1324.4
6133.2	42.5°	5870.5	5533.2	5311.3	4447.6	2747.4	1761.4	1566.7	1450.1	1321.0	1240.7
6555.4	45°	6247.5	5878.5	5595.5	4446.5	2517.6	1672.0	1530.5	1415.0	1272.4	1188.6
6988.9	47.5°	6642.6	6239.6	5841.1	4374.0	2318.3	1684.4	1510.1	1339.2	1181.8	1100.3
7427.0	50°	7038.8	6634.6	6078.8	4238.2	2233.4	1657.2	1434.2	1232.7	1047.1	973.5
7837.9	52.5°	7431.6	7054.6	6283.7	4044.6	2147.4	1556.5	1336.9	1094.6	991.6	940.7
8262.4	55°	7826.6	7470.0	6506.7	3762.8	1932.3	1438.8	1173.9	1042.6	947.5	901.1
8677.9	57.5°	8222.8	7950.0	6718.4	3480.9	1661.8	1293.9	1084.5	979.2	903.3	863.7
9025.4	60°	8634.9	8499.0	6936.9	3221.7	1394.6	1108.2	1018.8	928.2	851.3	807.1
9359.3	62.5°	9059.4	9103.5	7107.8	2887.7	1149.0	995.0	959.9	867.1	792.4	750.5
9635.5	65°	9487.3	9686.5	7219.9	2424.7	931.6	887.5	896.5	800.3	724.5	688.3
9838.2	67.5°	9809.9	10106.5	7188.2	1835.0	764.1	785.6	817.3	730.1	658.8	630.5
9805.3	70°	9846.1	10056.7	6875.7	1256.5	639.6	686.0	729.0	661.1	587.5	567.1
9343.5	72.5°	9363.9	9377.5	6005.2	820.7	541.1	602.2	636.2	590.9	519.6	499.2
8174.1	75°	8099.4	7755.3	4409.1	541.1	452.8	517.3	549.0	517.3	448.3	452.8
6116.2	77.5°	6136.5	5492.4	2677.2	384.9	378.1	434.7	477.7	455.1	396.2	444.9
3075.6	80°	3161.7	2971.5	1194.3	287.5	298.8	347.5	392.8	363.4	313.6	298.8
687.1	82.5°	724.5	842.2	470.9	206.0	216.2	250.2	300.0	272.8	225.3	190.2
286.4	85°	253.6	277.3	208.3	129.0	126.8	156.2	203.8	182.3	152.8	122.3
121.1	87.5°	80.4	105.3	78.1	52.1	54.3	70.2	94.0	86.0	71.3	46.4
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>
2404.4
2470.0
2574.2
2693.0
2801.7
2861.7
2923.9
2970.4
2978.3
2943.2
2811.9
2600.2
2326.3
2041.0
1763.6
1523.7
1343.7
1256.5
1202.2
1111.6
978.0
940.7
896.5
856.9
803.7
749.4
687.1
631.7
568.3
498.1
437.0
391.7
272.8
187.9
129.0
48.7
0.0

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