

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: P951230

Luminaire Tested: **GALN-SB5B-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951230  
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-SB5B-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

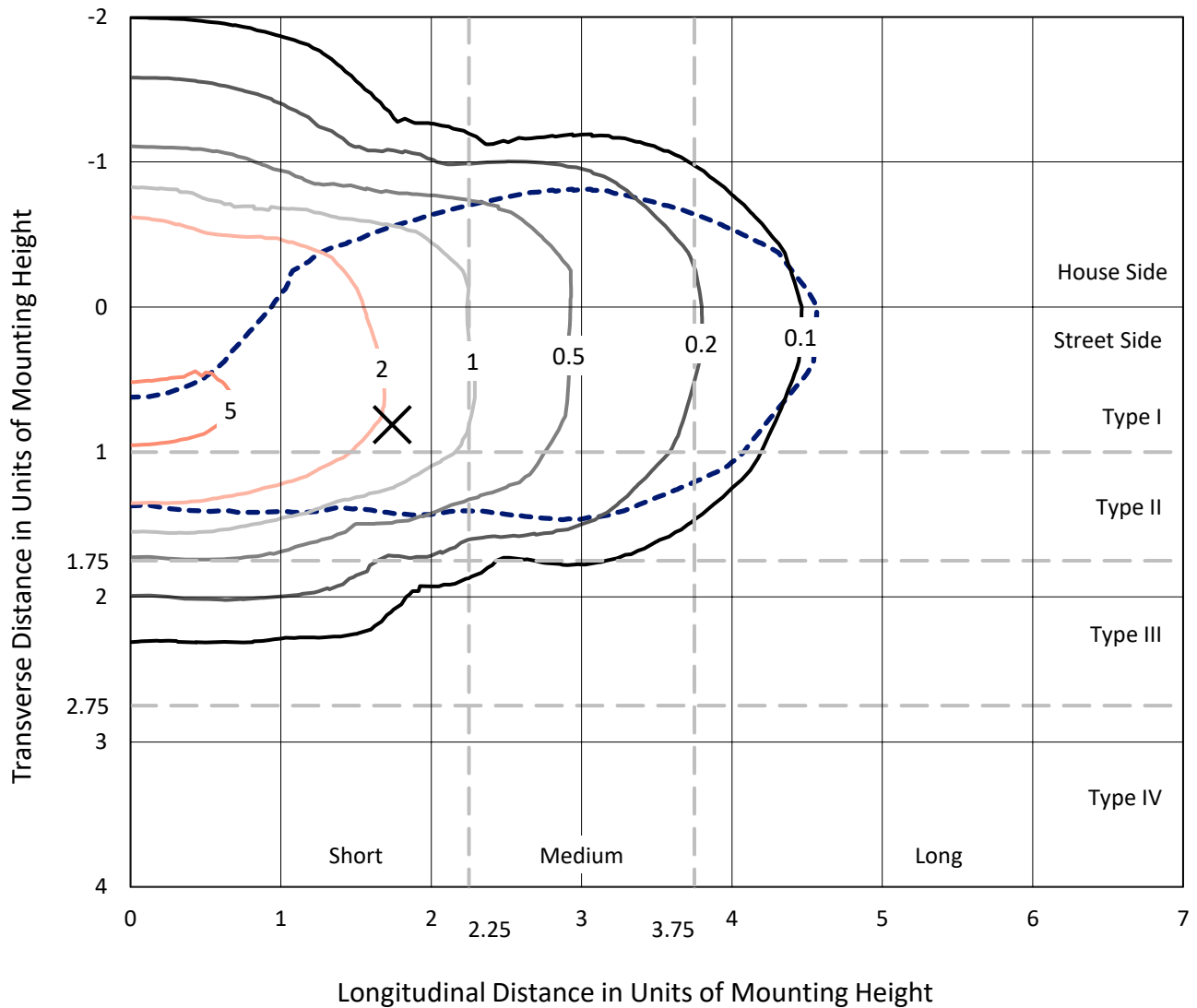
Lumens per Lamp: N/A  
Luminaire Lumens: 20888 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

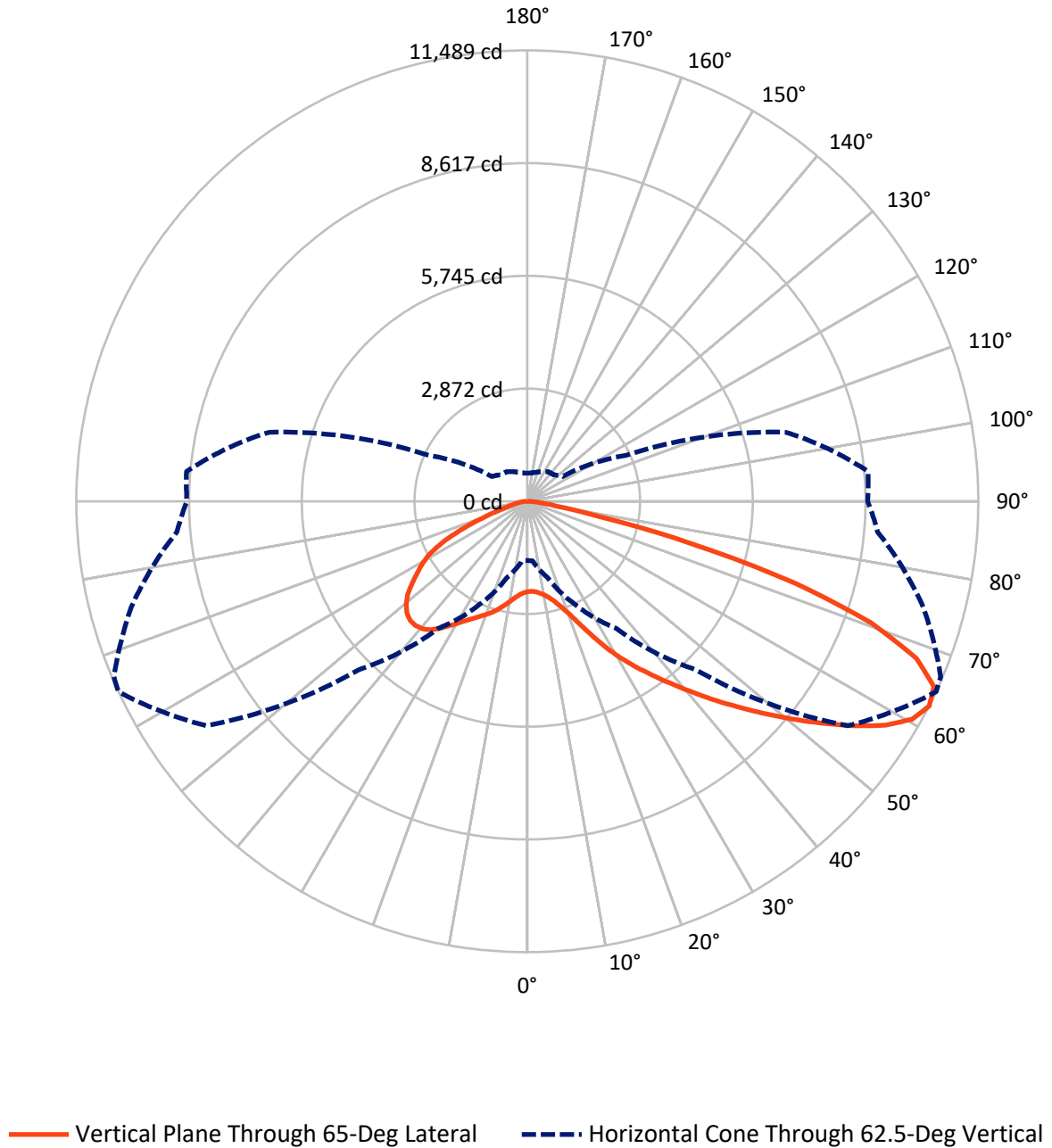
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	6591.3	0.0	6591.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14296.7	0.0	14296.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20888.0	0.0	20888.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.5	1.1
10°-20°	778.2	3.7
20°-30°	1577.9	7.6
30°-40°	2730.5	13.1
40°-50°	4132.1	19.8
50°-60°	4844.6	23.2
60°-70°	4061.6	19.4
70°-80°	2242.3	10.7
80°-90°	291.3	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°	20888.0	100.0
0°-180°	20888.0	100.0



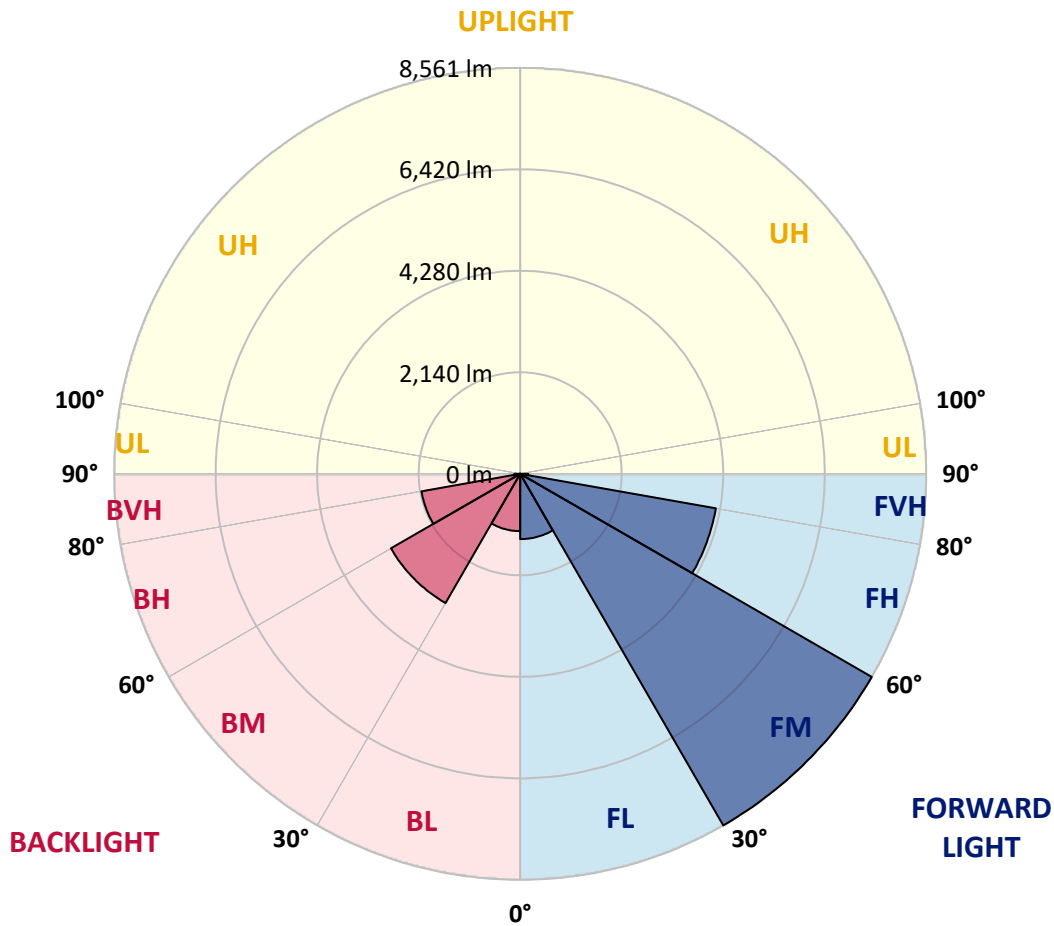
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.8	6.6			
FM (30°-60°)	8560.6	41.0			
FH (60°-80°)	4189.5	20.1			G2/5000
FVH (80°-90°)	169.8	0.8			G2/225
BL (0°-30°)	1208.8	5.8	B3/2500		
BM (30°-60°)	3146.6	15.1	B3/5000		
BH (60°-80°)	2114.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	121.5	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°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2286.6	2280.1	2285.5	2285.5	2287.7	2286.6	2294.2	2296.3	2299.6	2306.1
5°	2263.8	2262.8	2272.5	2281.2	2289.8	2297.4	2307.2	2321.3	2323.4	2331.0
7.5°	2256.3	2249.7	2264.9	2275.8	2296.3	2314.8	2340.8	2364.6	2374.4	2377.6
10°	2314.8	2303.9	2318.0	2324.5	2341.9	2360.3	2390.6	2428.6	2439.4	2452.4
12.5°	2414.5	2402.6	2423.1	2432.9	2449.1	2465.4	2486.0	2522.8	2528.3	2552.1
15°	2551.0	2536.9	2549.9	2561.9	2588.9	2604.1	2624.7	2660.5	2660.5	2678.9
17.5°	2736.3	2717.9	2727.7	2732.0	2749.3	2772.1	2806.8	2838.2	2854.5	2847.9
20°	3012.7	2989.9	2989.9	2968.2	2961.7	2980.2	3025.7	3069.0	3086.4	3052.8
22.5°	3427.7	3395.2	3376.8	3303.1	3273.8	3276.0	3321.5	3374.6	3388.7	3329.1
25°	3955.5	3904.6	3879.6	3771.3	3705.2	3647.7	3683.5	3751.8	3771.3	3697.6
27.5°	4483.2	4486.5	4462.7	4332.6	4223.2	4118.0	4099.6	4171.1	4191.7	4108.3
30°	5223.4	5146.5	5100.9	4944.9	4788.8	4641.5	4565.6	4594.9	4600.3	4500.6
32.5°	5861.7	5842.2	5744.7	5608.1	5407.6	5176.8	5050.0	5003.4	4994.7	4852.8
35°	6588.9	6578.0	6475.1	6312.5	6095.8	5775.0	5546.3	5413.1	5402.2	5202.8
37.5°	7327.9	7327.9	7227.2	7049.4	6825.1	6424.1	6076.3	5865.0	5830.3	5570.2
40°	7917.5	7881.7	7900.1	7825.4	7568.5	7142.6	6664.7	6358.0	6311.4	5999.3
42.5°	8252.3	8240.4	8350.9	8434.4	8329.3	7989.0	7312.8	6892.3	6827.3	6471.8
45°	8327.1	8314.1	8511.3	8816.9	8964.3	8824.5	8017.2	7454.7	7375.6	6966.0
47.5°	8154.8	8128.8	8418.1	8900.4	9372.9	9618.9	8780.1	8064.9	7950.0	7447.1
50°	7636.8	7611.9	8049.7	8690.1	9510.5	10158.6	9608.0	8711.8	8536.3	7963.0
52.5°	6510.8	6522.8	7208.7	8088.7	9329.5	10494.5	10321.1	9393.5	9182.1	8490.7
55°	5071.7	5097.7	5940.8	6909.6	8605.6	10443.6	10807.7	10095.7	9885.5	8987.1
57.5°	3631.5	3746.3	4536.3	5495.4	7215.2	9636.2	10913.9	10763.3	10559.5	9528.9
60°	2353.8	2374.4	3187.1	4153.8	5494.3	8201.4	10698.2	11269.3	11110.0	10081.6
62.5°	1508.5	1522.6	2017.8	2905.4	3954.4	6067.6	9972.2	11489.3	11440.6	10446.8
65°	1108.6	1097.8	1355.7	1920.3	2663.7	3742.0	8562.3	11383.1	11479.6	10675.5
67.5°	925.5	910.3	1037.1	1329.7	1962.6	2125.1	6335.3	10692.8	11046.1	10649.5
70°	843.1	830.1	907.1	987.2	1531.3	1422.9	3193.6	9295.9	9839.9	10353.6
72.5°	714.2	691.4	796.5	876.7	1191.0	1091.3	1319.9	7140.5	7803.7	9405.4
75°	553.8	538.6	628.5	771.6	895.1	851.8	834.4	4335.9	5059.8	7273.8
77.5°	438.9	418.3	500.7	601.5	805.2	642.6	608.0	1867.2	2584.6	4643.6
80°	330.5	312.1	380.4	475.7	618.8	484.4	393.4	761.8	974.2	2352.7
82.5°	235.2	218.9	265.5	348.9	416.1	434.6	241.7	427.0	480.1	907.1
85°	150.6	140.9	177.7	218.9	264.4	279.6	147.4	223.2	244.9	373.9
87.5°	82.4	67.2	95.4	101.9	122.5	111.6	70.4	81.3	87.8	135.5
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°
2301.8	0°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2306.1	2.5°	2310.4	2313.7	2324.5	2327.8	2335.4	2345.1	2351.6	2358.1	2358.1	2364.6
2340.8	5°	2341.9	2349.4	2372.2	2384.1	2403.6	2423.1	2435.1	2449.1	2457.8	2462.2
2396.0	7.5°	2402.6	2414.5	2447.0	2467.6	2501.2	2528.3	2546.7	2566.2	2570.5	2582.4
2473.0	10°	2484.9	2499.0	2535.8	2574.9	2615.0	2648.5	2665.9	2680.0	2685.4	2687.6
2571.6	12.5°	2579.2	2599.8	2647.5	2695.1	2737.4	2766.7	2771.0	2767.8	2752.6	2739.6
2693.0	15°	2695.1	2713.6	2766.7	2818.7	2859.9	2865.3	2838.2	2820.9	2802.4	2799.2
2828.4	17.5°	2833.9	2843.6	2892.4	2943.3	2946.6	2928.1	2888.0	2871.8	2854.5	2842.5
3005.1	20°	2995.3	2992.1	3026.8	3048.4	3025.7	2969.3	2908.6	2881.5	2864.2	2850.1
3221.8	22.5°	3188.2	3163.3	3159.0	3153.6	3092.9	2974.7	2892.4	2857.7	2830.6	2811.1
3524.2	25°	3468.9	3373.5	3307.4	3270.6	3134.0	2945.5	2840.4	2763.4	2712.5	2678.9
3893.7	27.5°	3820.0	3659.6	3492.7	3402.8	3134.0	2885.9	2714.7	2590.0	2506.6	2471.9
4251.3	30°	4154.9	3986.9	3740.9	3562.1	3126.5	2788.3	2512.0	2338.6	2241.1	2206.4
4556.9	32.5°	4441.0	4257.8	4004.3	3736.6	3108.0	2630.1	2260.6	2068.8	1974.5	1933.3
4859.3	35°	4706.5	4511.4	4268.7	3928.4	3059.3	2398.2	1984.2	1837.9	1732.8	1666.7
5167.1	37.5°	4978.5	4746.6	4519.0	4101.8	2971.5	2127.3	1771.8	1647.2	1523.7	1434.8
5494.3	40°	5274.3	4996.9	4786.7	4204.7	2827.4	1869.4	1607.1	1493.3	1362.2	1267.9
5871.5	42.5°	5620.0	5297.1	5084.7	4257.8	2630.1	1686.2	1499.8	1388.2	1264.7	1187.7
6275.7	45°	5980.9	5627.6	5356.7	4256.8	2410.1	1600.6	1465.2	1354.6	1218.1	1137.9
6690.7	47.5°	6359.1	5973.3	5591.9	4187.4	2219.4	1612.5	1445.6	1282.0	1131.4	1053.4
7110.1	50°	6738.4	6351.5	5819.4	4057.4	2138.1	1586.5	1373.0	1180.1	1002.4	932.0
7503.5	52.5°	7114.5	6753.6	6015.6	3872.0	2055.8	1490.1	1279.8	1047.9	949.3	900.6
7909.9	55°	7492.7	7151.3	6229.1	3602.2	1849.9	1377.4	1123.8	998.1	907.1	862.6
8307.6	57.5°	7872.0	7610.8	6431.7	3332.4	1590.9	1238.7	1038.2	937.4	864.8	826.9
8640.3	60°	8266.4	8136.4	6640.9	3084.2	1335.1	1060.9	975.3	888.6	814.9	772.7
8960.0	62.5°	8672.8	8715.1	6804.5	2764.5	1099.9	952.6	919.0	830.1	758.6	718.5
9224.4	65°	9082.4	9273.2	6911.8	2321.3	891.9	849.6	858.3	766.2	693.6	658.9
9418.4	67.5°	9391.3	9675.2	6881.5	1756.7	731.5	752.1	782.4	699.0	630.7	603.6
9387.0	70°	9426.0	9627.5	6582.4	1202.9	612.3	656.7	697.9	632.9	562.4	542.9
8944.8	72.5°	8964.3	8977.3	5749.0	785.7	518.0	576.5	609.0	565.7	497.4	477.9
7825.4	75°	7753.8	7424.4	4221.0	518.0	433.5	495.2	525.6	495.2	429.1	433.5
5855.2	77.5°	5874.7	5258.1	2562.9	368.5	362.0	416.1	457.3	435.6	379.3	425.9
2944.4	80°	3026.8	2844.7	1143.3	275.3	286.1	332.7	376.0	347.9	300.2	286.1
657.8	82.5°	693.6	806.3	450.8	197.2	207.0	239.5	287.2	261.2	215.7	182.1
274.2	85°	242.7	265.5	199.4	123.5	121.4	149.5	195.1	174.5	146.3	117.0
116.0	87.5°	76.9	100.8	74.8	49.8	52.0	67.2	89.9	82.4	68.3	44.4
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>
2301.8
2364.6
2464.3
2578.1
2682.1
2739.6
2799.2
2843.6
2851.2
2817.6
2691.9
2489.2
2227.0
1953.9
1688.4
1458.7
1286.3
1202.9
1150.9
1064.2
936.3
900.6
858.3
820.4
769.4
717.4
657.8
604.7
544.0
476.8
418.3
375.0
261.2
179.9
123.5
46.6
0.0

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