

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: P951234

Luminaire Tested: **GALN-SB5B-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951234  
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-SB5B-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

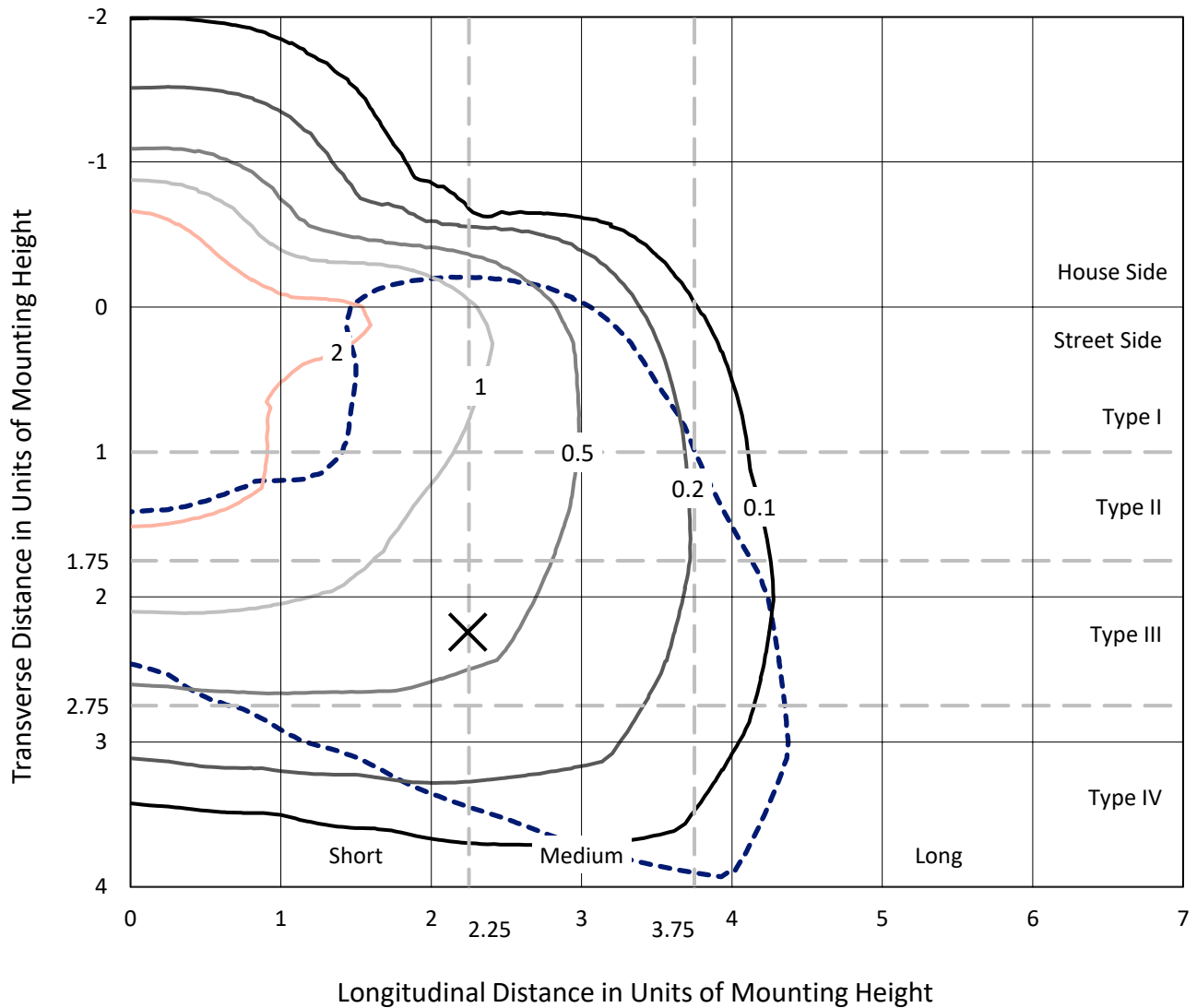
Lumens per Lamp: N/A  
Luminaire Lumens: 20572 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

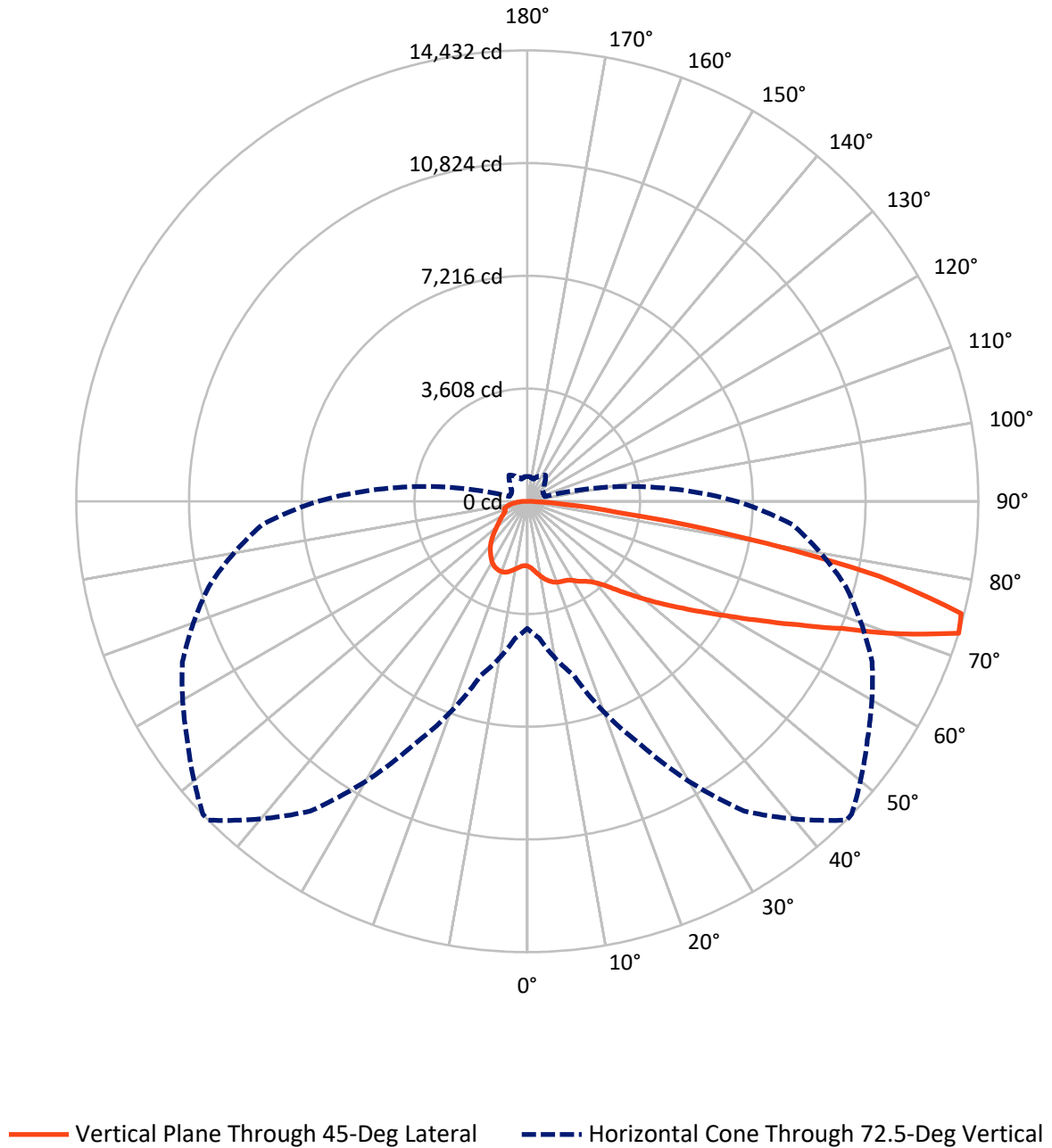
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - 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	4650.6	0.0	4650.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	15921.4	0.0	15921.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	20572.0	0.0	20572.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.2	1.0
10°-20°	704.3	3.4
20°-30°	1225.1	6.0
30°-40°	1756.2	8.5
40°-50°	2472.9	12.0
50°-60°	3787.7	18.4
60°-70°	5487.1	26.7
70°-80°	4381.8	21.3
80°-90°	545.7	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°	20572.0	100.0
0°-180°	20572.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951234

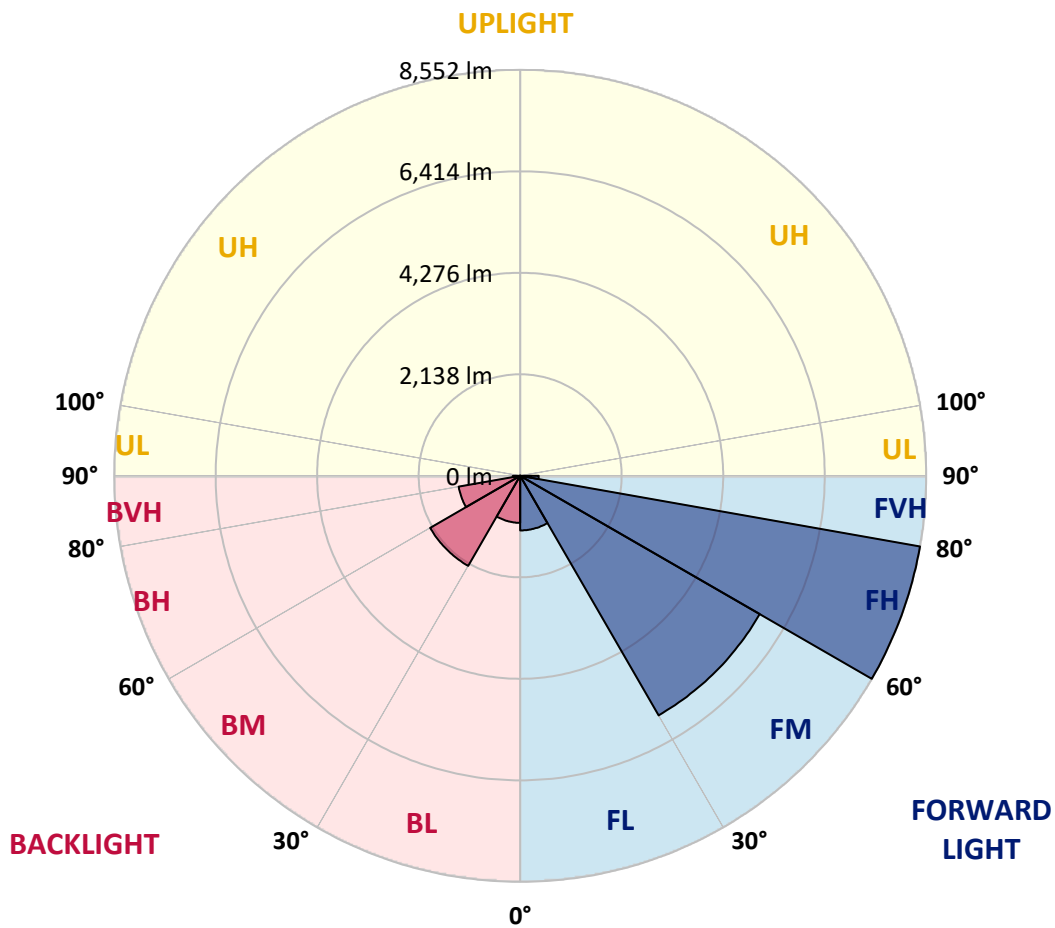
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.4	5.6			
FM (30°-60°)	5827.1	28.3			
FH (60°-80°)	8552.4	41.6			G4/12000
FVH (80°-90°)	391.5	1.9			G3/500
BL (0°-30°)	990.2	4.8	B2/1000		
BM (30°-60°)	2189.8	10.6	B2/2500		
BH (60°-80°)	1316.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	154.2	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°	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3
2.5°	2156.6	2170.7	2157.7	2145.8	2140.3	2126.2	2125.2	2116.5	2111.1	2095.9
5°	2307.2	2325.7	2304.0	2280.1	2258.5	2223.8	2219.4	2194.5	2166.3	2133.8
7.5°	2477.4	2493.6	2468.7	2432.9	2395.0	2337.6	2336.5	2291.0	2246.5	2191.3
10°	2625.8	2647.5	2613.9	2565.2	2517.5	2452.4	2444.9	2392.8	2336.5	2265.0
12.5°	2757.0	2772.1	2739.6	2680.0	2624.8	2559.7	2550.0	2492.5	2429.7	2348.4
15°	2861.0	2880.5	2837.2	2773.2	2714.7	2650.8	2642.1	2590.1	2527.2	2441.6
17.5°	2929.3	2945.5	2901.1	2829.6	2773.2	2720.1	2713.6	2670.3	2615.0	2528.3
20°	2955.3	2972.6	2926.0	2853.4	2801.4	2760.2	2757.0	2725.5	2687.6	2608.5
22.5°	2981.3	2997.6	2936.9	2861.0	2815.5	2789.5	2788.4	2767.8	2752.6	2687.6
25°	3086.4	3090.8	3009.5	2900.0	2835.0	2812.2	2811.2	2810.1	2816.6	2765.6
27.5°	3177.5	3176.4	3107.0	3004.1	2903.3	2855.6	2854.5	2865.3	2885.9	2843.7
30°	3310.7	3298.8	3216.5	3109.2	3017.1	2943.4	2936.9	2927.1	2943.4	2909.8
32.5°	3593.6	3555.7	3422.4	3231.6	3111.3	3055.0	3046.3	2985.6	2992.1	2971.5
35°	3998.9	3949.1	3771.3	3463.6	3228.4	3148.2	3143.9	3066.9	3053.9	3035.5
37.5°	4481.2	4419.4	4212.4	3799.5	3430.0	3256.6	3250.1	3180.7	3127.6	3108.1
40°	4965.6	4887.6	4716.3	4209.1	3726.9	3437.5	3417.0	3311.8	3251.1	3218.6
42.5°	5435.9	5370.9	5224.6	4668.6	4093.2	3702.0	3656.5	3476.6	3431.0	3400.7
45°	5852.1	5793.5	5686.3	5159.6	4522.3	4061.8	4017.3	3723.6	3709.6	3709.6
47.5°	6190.2	6177.2	6063.4	5660.2	5028.4	4471.4	4394.5	4067.2	4105.1	4163.6
50°	6565.1	6529.4	6408.0	6153.3	5623.4	4940.7	4877.8	4488.7	4630.7	4791.1
52.5°	6909.8	6929.3	6793.8	6667.0	6295.3	5464.1	5353.6	4986.2	5292.9	5558.4
55°	7264.1	7265.2	7227.3	7210.0	6999.7	6042.8	5921.4	5584.4	6072.1	6401.5
57.5°	7596.8	7599.0	7655.4	7808.2	7816.8	6710.4	6572.7	6319.1	6937.9	7273.9
60°	7893.8	7909.0	8062.8	8420.5	8535.3	7475.5	7345.4	7187.2	7833.1	8171.2
62.5°	7993.5	8048.8	8391.2	8899.5	9245.2	8414.0	8286.1	8191.8	8773.8	9088.0
65°	7824.4	7951.2	8613.4	9295.0	9975.6	9529.1	9402.3	9299.4	9751.3	10047.1
67.5°	7409.4	7573.0	8600.4	9710.1	10862.1	10870.7	10752.6	10511.0	10799.2	10913.0
70°	6315.9	6560.8	7842.8	9865.1	11879.7	12705.5	12591.7	11969.6	11845.0	11294.5
72.5°	4069.4	4398.8	5775.1	8589.5	12106.2	14431.8	14425.3	13286.3	12175.5	10553.2
75°	1484.7	1686.3	2683.3	5391.5	10162.0	14344.1	14386.3	13060.9	11114.6	8151.7
77.5°	540.8	591.7	875.6	2072.1	6249.8	11509.1	11596.8	10441.6	7911.1	4091.0
80°	283.9	312.1	448.7	804.1	2677.9	6835.0	6972.6	6205.4	3718.2	1232.2
82.5°	157.1	170.1	251.4	436.7	1206.2	2922.8	3005.1	2451.4	1308.0	522.4
85°	84.5	89.9	118.1	238.4	589.5	1013.3	1036.0	732.6	521.3	306.7
87.5°	24.9	30.3	39.0	75.9	230.8	227.6	233.0	145.2	205.9	155.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951234  
 CATALOG NUMBER: GALN-SB5B-940-U-T4W

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2075.3	0°	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3	2075.3
2091.6	2.5°	2085.1	2081.8	2069.9	2064.5	2058.0	2056.9	2062.3	2063.4	2064.5	2065.6
2115.4	5°	2104.6	2093.7	2082.9	2076.4	2078.6	2079.6	2090.5	2098.1	2103.5	2107.8
2159.8	7.5°	2142.5	2133.8	2115.4	2114.3	2117.6	2127.3	2141.4	2158.8	2168.5	2176.1
2217.3	10°	2198.9	2182.6	2160.9	2164.2	2170.7	2184.8	2214.0	2228.1	2244.4	2258.5
2287.7	12.5°	2256.3	2242.2	2217.3	2219.4	2230.3	2255.2	2283.4	2300.7	2311.6	2322.4
2363.6	15°	2331.1	2306.1	2279.1	2279.1	2298.6	2325.7	2338.7	2352.7	2359.2	2371.2
2444.9	17.5°	2408.0	2375.5	2339.7	2337.6	2361.4	2374.4	2382.0	2384.2	2386.3	2399.3
2524.0	20°	2485.0	2449.2	2398.3	2393.9	2399.3	2397.2	2396.1	2393.9	2397.2	2413.4
2605.3	22.5°	2560.8	2519.6	2449.2	2429.7	2414.5	2393.9	2392.8	2391.8	2393.9	2410.2
2693.0	25°	2649.7	2599.8	2505.5	2447.0	2396.1	2367.9	2371.2	2372.3	2374.4	2387.4
2784.1	27.5°	2746.1	2690.9	2557.6	2441.6	2349.5	2330.0	2324.6	2327.8	2335.4	2356.0
2875.1	30°	2842.6	2777.6	2605.3	2419.9	2291.0	2263.9	2246.5	2254.1	2278.0	2298.6
2954.2	32.5°	2930.4	2865.3	2643.2	2372.3	2216.2	2173.9	2151.2	2160.9	2184.8	2192.4
3042.0	35°	3033.3	2959.6	2659.4	2296.4	2134.9	2069.9	2039.6	2025.5	2037.4	2029.8
3144.9	37.5°	3148.2	3071.2	2657.3	2196.7	2039.6	1964.8	1922.5	1869.4	1844.5	1818.5
3296.7	40°	3318.3	3207.8	2631.3	2076.4	1921.4	1853.2	1777.3	1687.3	1631.0	1580.1
3541.6	42.5°	3550.3	3397.4	2583.6	1944.2	1788.1	1724.2	1621.2	1516.1	1427.3	1342.7
3913.3	45°	3896.0	3645.6	2524.0	1803.3	1644.0	1581.1	1469.5	1351.4	1250.6	1142.2
4441.1	47.5°	4394.5	3979.4	2467.6	1642.9	1492.3	1434.8	1334.1	1224.6	1105.4	1000.3
5204.0	50°	5079.4	4458.4	2415.6	1486.9	1342.7	1299.4	1219.2	1107.6	987.3	902.7
6098.1	52.5°	5950.7	5109.7	2393.9	1336.2	1202.9	1186.7	1122.7	1018.7	904.9	833.4
7140.6	55°	6950.9	5888.9	2393.9	1192.1	1080.5	1085.9	1041.5	945.0	846.4	782.4
8215.6	57.5°	7971.8	6677.9	2350.6	1058.8	976.4	999.2	971.0	886.5	797.6	731.5
9346.0	60°	8912.5	7338.9	2175.0	937.4	884.3	920.1	901.7	829.0	720.7	665.4
10291.0	62.5°	9635.3	7711.7	1836.9	841.0	808.5	849.6	839.9	753.2	706.6	683.8
11066.9	65°	9997.3	7651.0	1404.5	755.3	744.5	808.5	787.9	784.6	747.8	721.8
11319.4	67.5°	9775.1	7128.7	1018.7	692.5	707.7	770.5	849.6	862.6	794.4	743.4
10608.5	70°	8800.9	6183.7	758.6	632.9	661.1	771.6	968.8	902.7	779.2	719.6
8508.2	72.5°	6695.2	4611.2	588.5	570.0	600.4	777.0	1021.9	884.3	735.8	795.4
5300.5	75°	3828.8	2531.6	472.5	493.1	524.5	726.1	994.9	836.6	702.2	730.4
2100.2	77.5°	1459.8	973.2	390.1	417.2	421.6	634.0	951.5	833.4	668.7	652.4
629.6	80°	506.1	380.4	322.9	331.6	326.2	563.5	912.5	725.0	547.3	489.8
260.1	82.5°	207.0	189.7	255.8	244.9	231.9	437.8	736.9	592.8	447.6	395.6
125.7	85°	89.9	120.3	169.1	148.5	134.4	303.4	590.6	501.8	378.2	326.2
41.2	87.5°	18.4	45.5	71.5	67.2	69.4	202.7	419.4	356.5	267.7	200.5
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>
2075.3
2069.9
2110.0
2178.3
2255.2
2326.7
2375.5
2403.7
2419.9
2421.0
2404.8
2376.6
2321.3
2219.4
2053.6
1834.7
1583.3
1335.1
1129.2
988.3
897.3
828.0
775.9
720.7
656.7
676.2
713.1
734.8
709.8
788.9
730.4
595.0
473.6
391.2
325.1
157.1
0.0

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