

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: P940782

Luminaire Tested: **GALN-SB4A-735-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

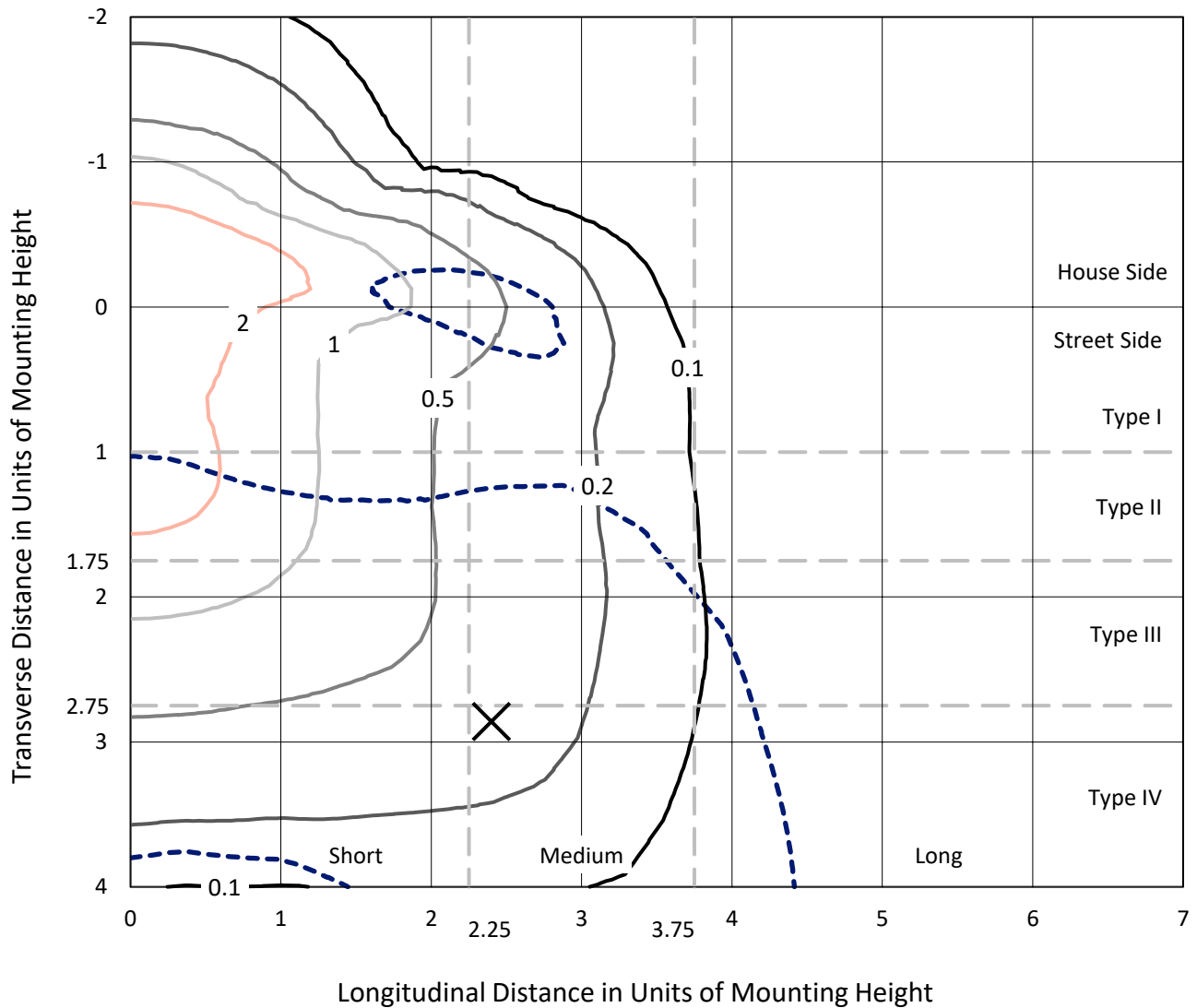
Lumens per Lamp: N/A  
Luminaire Lumens: 17821 lumens  
Efficiency: N/A  
Efficacy: 156.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

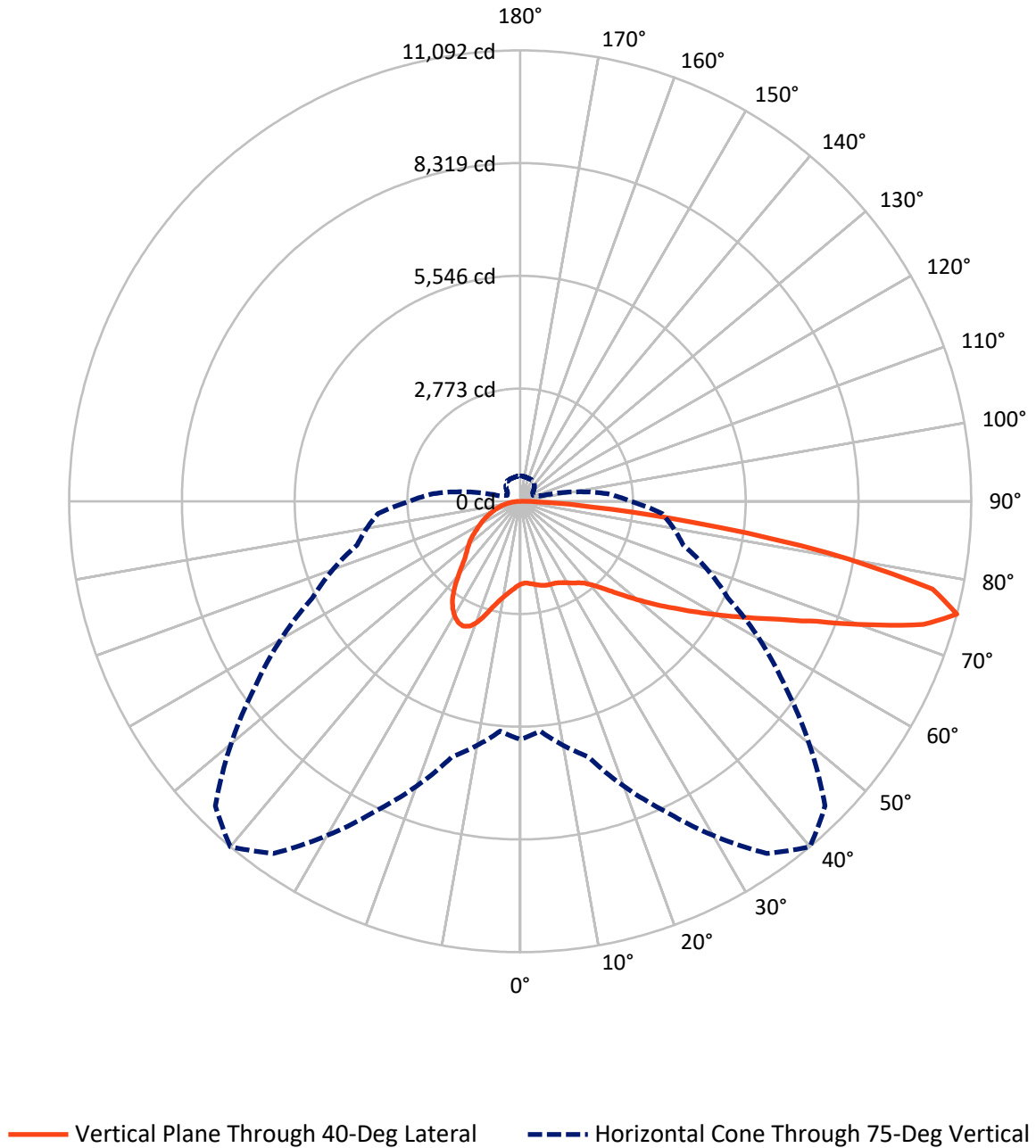
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5521.5	0.0	5521.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	12299.5	0.0	12299.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	17821.0	0.0	17821.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	683.0	3.8
20°-30°	1247.0	7.0
30°-40°	1768.6	9.9
40°-50°	2388.2	13.4
50°-60°	3212.8	18.0
60°-70°	4077.7	22.9
70°-80°	3700.8	20.8
80°-90°	539.5	3.0
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°	17821.0	100.0
0°-180°	17821.0	100.0



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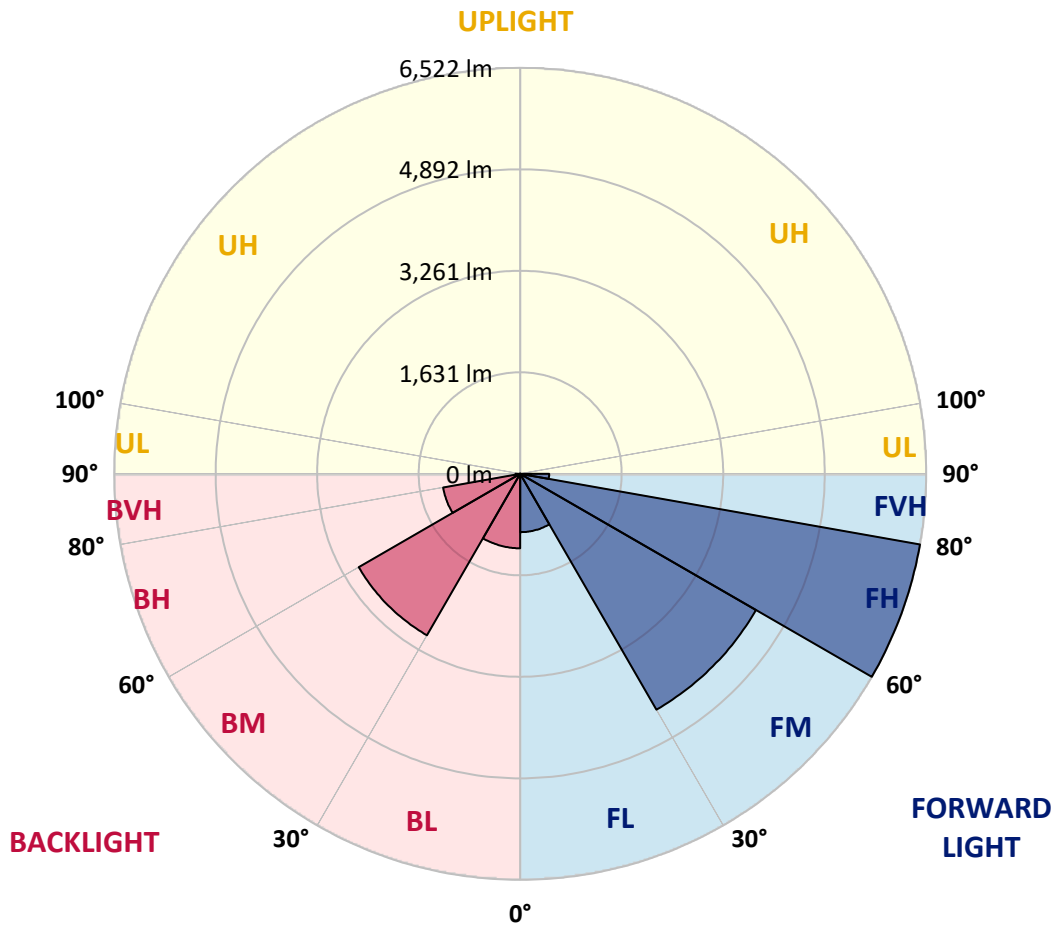
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.4	5.3			
FM (30°-60°)	4374.7	24.5			
FH (60°-80°)	6522.2	36.6			G3/7500
FVH (80°-90°)	465.2	2.6			G3/500
BL (0°-30°)	1196.0	6.7	B3/2500		
BM (30°-60°)	2994.9	16.8	B3/5000		
BH (60°-80°)	1256.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9
2.5°	2006.7	2018.0	2015.2	2011.4	2011.4	2012.3	2011.4	2018.0	2024.6	2031.2
5°	2027.5	2038.8	2033.1	2028.4	2024.6	2023.7	2020.8	2019.9	2023.7	2032.2
7.5°	2068.1	2079.4	2070.9	2062.4	2054.9	2051.1	2047.3	2041.6	2038.8	2043.5
10°	2113.5	2124.8	2114.4	2099.3	2087.0	2082.3	2078.5	2072.8	2069.0	2071.9
12.5°	2158.8	2170.2	2156.0	2135.2	2119.1	2116.3	2111.6	2109.7	2108.7	2107.8
15°	2201.4	2210.8	2192.9	2168.3	2151.3	2146.6	2141.8	2144.7	2149.4	2155.1
17.5°	2234.5	2243.9	2217.4	2185.3	2169.2	2167.3	2164.5	2174.0	2187.2	2201.4
20°	2264.7	2274.2	2240.1	2196.6	2177.7	2177.7	2178.7	2198.5	2217.4	2238.2
22.5°	2307.2	2314.8	2273.2	2213.7	2186.3	2188.1	2195.7	2215.6	2239.2	2267.5
25°	2370.6	2376.2	2325.2	2245.8	2214.6	2220.3	2226.9	2236.3	2259.0	2292.1
27.5°	2472.6	2477.4	2410.3	2302.5	2255.3	2264.7	2274.2	2267.5	2277.9	2306.3
30°	2616.3	2619.2	2534.1	2391.4	2324.3	2329.0	2330.9	2303.5	2283.6	2306.3
32.5°	2786.5	2785.5	2684.4	2499.1	2402.7	2398.0	2381.9	2328.0	2281.7	2301.6
35°	3050.2	3039.8	2909.3	2650.3	2491.6	2462.3	2424.4	2355.4	2291.2	2296.8
37.5°	3486.8	3454.7	3274.2	2898.0	2623.9	2549.2	2493.4	2399.9	2312.0	2294.9
40°	3979.3	3938.7	3740.2	3237.3	2822.4	2702.3	2612.5	2463.2	2346.0	2303.5
42.5°	4563.4	4505.8	4292.2	3637.1	3073.8	2899.9	2764.7	2543.5	2396.1	2330.9
45°	5280.8	5204.3	4901.8	4088.0	3390.4	3158.9	2978.3	2665.5	2472.6	2383.8
47.5°	6005.8	6024.7	5594.6	4604.1	3770.4	3478.3	3245.8	2848.8	2584.2	2468.9
50°	6776.2	6789.4	6283.7	5175.9	4201.4	3839.4	3546.4	3053.9	2739.2	2589.9
52.5°	7377.3	7379.2	6909.4	5774.2	4650.4	4236.4	3870.6	3288.4	2918.8	2750.5
55°	7753.5	7748.8	7348.0	6340.4	5166.5	4653.2	4229.8	3554.9	3138.1	2939.6
57.5°	8026.7	8012.5	7650.5	6827.2	5716.6	5145.7	4636.2	3857.4	3397.1	3164.5
60°	8130.6	8122.1	7855.6	7247.8	6295.0	5690.1	5105.0	4195.8	3691.0	3430.1
62.5°	8170.3	8186.4	8056.9	7655.2	6914.2	6293.2	5620.2	4600.3	4021.8	3730.7
65°	8310.2	8339.5	8313.0	8188.3	7613.6	6999.2	6303.6	5081.4	4382.9	4053.0
67.5°	8587.2	8616.5	8627.8	8826.3	8468.1	7879.2	7156.1	5680.7	4805.4	4387.6
70°	8580.5	8572.0	8772.4	9333.9	9538.0	9097.6	8305.5	6417.9	5309.2	4665.5
72.5°	7810.2	7742.1	8215.7	9328.2	10428.4	10369.8	9709.1	7368.8	5744.0	4699.5
75°	5859.3	5677.8	6514.3	8406.6	10576.8	11091.9	10601.4	7958.6	5641.0	4152.3
77.5°	2505.7	2323.3	3309.2	6223.2	9466.2	10368.9	9782.8	6943.5	4502.9	2745.8
80°	656.0	655.0	1000.0	2821.4	6437.8	7657.1	6717.5	4484.0	2572.8	981.1
82.5°	271.3	264.7	367.7	1097.4	3145.6	4296.9	3506.7	2000.0	929.1	265.6
85°	101.1	100.2	178.6	379.0	1109.7	1772.3	1282.6	511.4	231.6	129.5
87.5°	28.4	27.4	38.8	131.4	270.3	410.2	219.3	84.1	65.2	51.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2037.9	0°	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9
2041.6	2.5°	2044.5	2049.2	2057.7	2064.3	2072.8	2082.3	2095.5	2104.0	2112.5	2118.2
2046.4	5°	2053.0	2063.4	2085.1	2106.9	2132.4	2156.0	2183.4	2203.3	2219.3	2224.1
2063.4	7.5°	2071.9	2088.9	2125.8	2162.6	2203.3	2242.0	2281.7	2315.7	2343.2	2353.6
2093.6	10°	2105.0	2127.6	2179.6	2231.6	2285.5	2345.0	2396.1	2445.2	2484.0	2500.1
2129.5	12.5°	2146.6	2174.9	2243.0	2314.8	2389.5	2471.7	2537.9	2598.4	2646.6	2668.3
2179.6	15°	2200.4	2237.3	2324.3	2420.7	2530.3	2644.7	2728.8	2795.9	2849.8	2876.2
2231.6	17.5°	2259.0	2308.2	2417.8	2563.4	2720.3	2870.6	2968.9	3018.0	3073.8	3099.3
2279.8	20°	2315.7	2376.2	2533.1	2744.9	2953.8	3113.5	3192.9	3206.1	3209.9	3212.7
2325.2	22.5°	2374.3	2455.6	2677.8	2973.6	3197.6	3308.2	3319.5	3262.8	3183.4	3146.6
2369.6	25°	2438.6	2546.4	2866.8	3226.0	3407.5	3420.7	3333.7	3195.7	3045.4	2976.4
2405.5	27.5°	2501.0	2651.3	3093.6	3467.0	3558.7	3442.4	3255.3	3059.6	2878.1	2805.4
2431.1	30°	2563.4	2771.3	3344.1	3677.8	3627.7	3388.5	3131.5	2913.1	2730.7	2654.1
2453.7	32.5°	2626.7	2911.2	3632.4	3830.0	3615.4	3274.2	2977.4	2748.6	2588.0	2507.6
2473.6	35°	2698.6	3083.2	3905.6	3913.1	3533.2	3105.9	2774.2	2552.0	2412.2	2347.9
2497.2	37.5°	2792.1	3301.6	4146.6	3933.9	3389.5	2859.2	2521.8	2319.5	2204.2	2174.9
2532.2	40°	2908.4	3564.4	4330.9	3900.8	3176.8	2559.6	2245.8	2084.2	2019.0	2025.6
2579.5	42.5°	3059.6	3858.3	4460.4	3815.8	2881.0	2250.5	2003.8	1932.0	1963.2	1989.6
2650.3	45°	3256.2	4163.6	4540.7	3671.2	2546.4	1988.7	1861.1	1878.1	1901.7	1904.6
2764.7	47.5°	3507.6	4472.7	4593.7	3452.8	2205.2	1804.4	1770.4	1774.1	1769.4	1749.6
2935.8	50°	3821.5	4773.3	4640.9	3163.6	1915.0	1689.1	1643.7	1630.5	1565.3	1501.0
3163.6	52.5°	4178.7	5049.3	4660.8	2804.4	1689.1	1592.7	1518.9	1435.8	1313.8	1294.0
3450.0	55°	4575.7	5304.5	4609.7	2363.0	1499.1	1468.8	1357.3	1257.1	1243.9	1226.9
3827.1	57.5°	5050.2	5579.5	4505.8	1870.6	1304.4	1324.2	1215.5	1226.9	1203.2	1176.8
4312.0	60°	5569.1	5864.0	4323.4	1421.6	1103.1	1143.7	1178.7	1177.7	1171.1	1149.4
4823.4	62.5°	6036.1	6051.2	3964.2	1088.9	926.3	1003.8	1099.3	1098.3	1092.7	1080.4
5357.4	65°	6313.9	6022.8	3364.9	857.3	780.7	888.5	991.5	999.1	1000.0	999.1
5759.1	67.5°	6264.8	5691.1	2542.6	682.4	660.7	771.3	884.7	895.1	902.7	904.6
5810.2	70°	5709.0	4962.3	1657.9	544.4	553.9	668.3	783.6	794.0	800.6	808.1
5041.7	72.5°	4450.0	3648.5	949.0	440.5	460.3	579.4	683.4	695.7	699.4	713.6
3508.6	75°	2711.8	2145.6	512.3	346.9	378.1	495.3	584.1	598.3	604.9	621.9
1723.1	77.5°	1289.3	929.1	292.1	270.3	304.4	404.5	493.4	509.5	491.5	501.0
475.4	80°	435.7	345.0	184.3	206.1	232.5	315.7	395.1	411.2	373.4	371.5
157.8	82.5°	152.2	139.9	117.2	137.1	150.3	225.9	298.7	319.5	277.9	276.9
70.9	85°	59.5	56.7	65.2	74.7	89.8	138.9	196.6	207.0	171.1	138.0
20.8	87.5°	12.3	13.2	16.1	17.0	27.4	48.2	70.9	87.0	69.0	58.6
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>
2037.9
2114.4
2226.0
2354.5
2501.0
2668.3
2874.4
3098.4
3220.3
3157.0
2986.8
2813.9
2662.6
2518.0
2362.1
2195.7
2048.3
2014.2
1923.5
1764.7
1509.5
1300.6
1229.7
1172.1
1141.8
1075.6
999.1
906.4
811.9
719.3
623.8
493.4
367.7
263.7
136.1
53.9
0.0

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