

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: P940819

Luminaire Tested: **GALN-SB4A-760-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

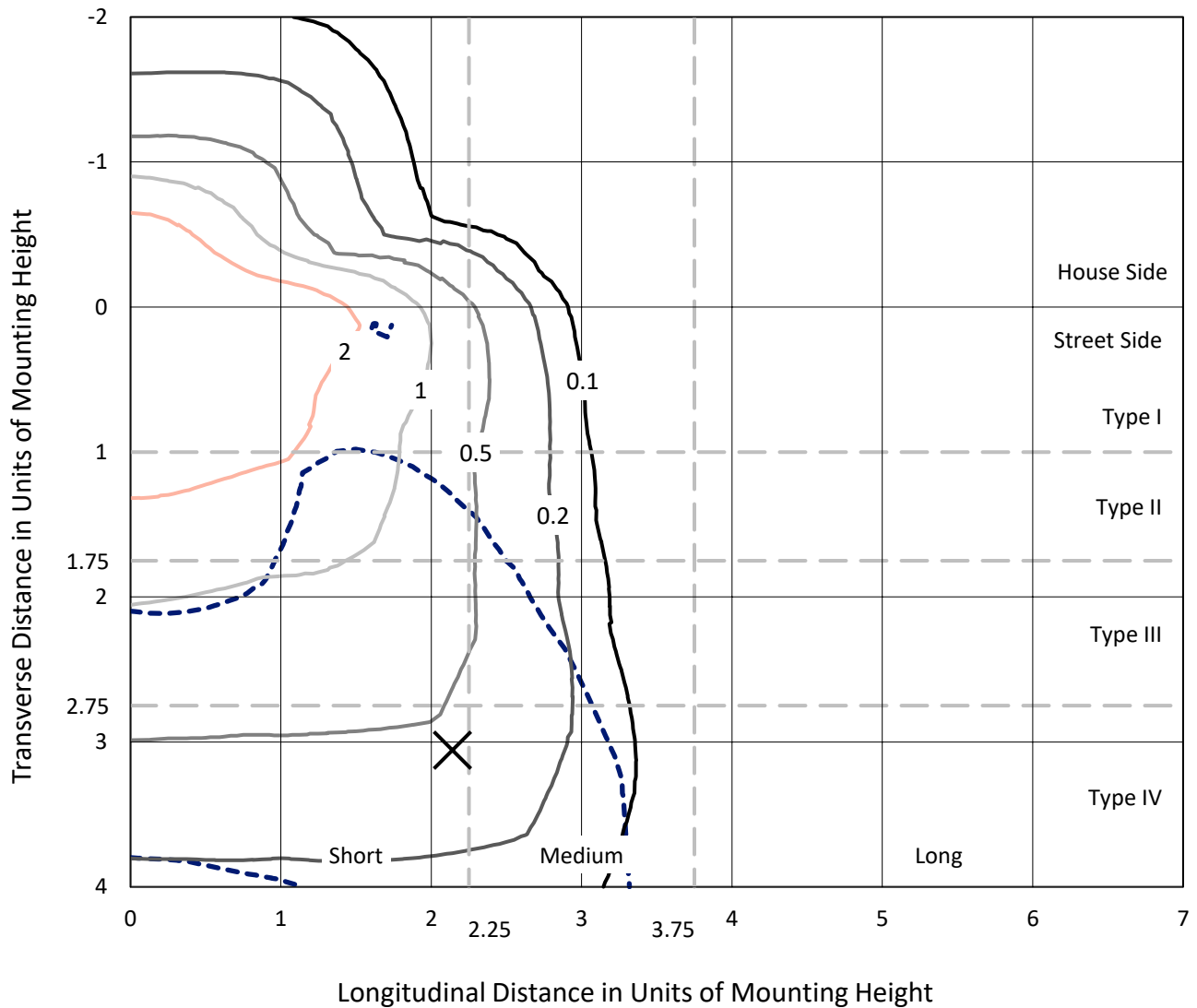
Lumens per Lamp: N/A  
Luminaire Lumens: 18799 lumens  
Efficiency: N/A  
Efficacy: 164.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

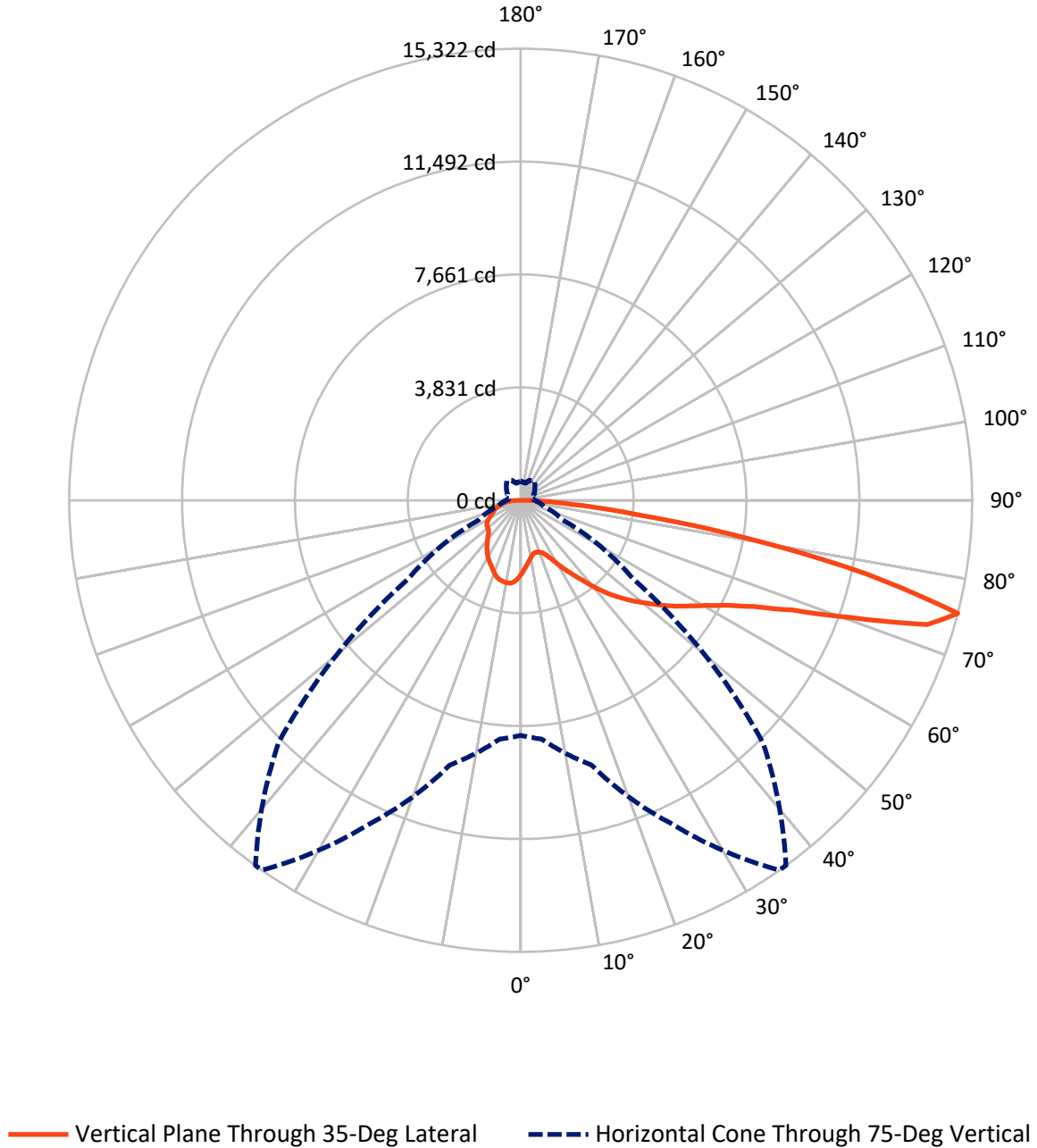
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4473.7	0.0	4473.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	14325.3	0.0	14325.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	18799.0	0.0	18799.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.2	1.3
10°-20°	684.1	3.6
20°-30°	1148.8	6.1
30°-40°	1785.5	9.5
40°-50°	2650.1	14.1
50°-60°	3658.6	19.5
60°-70°	4438.7	23.6
70°-80°	3668.3	19.5
80°-90°	527.6	2.8
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°	18799.0	100.0
0°-180°	18799.0	100.0

**Coefficient of Utilization**



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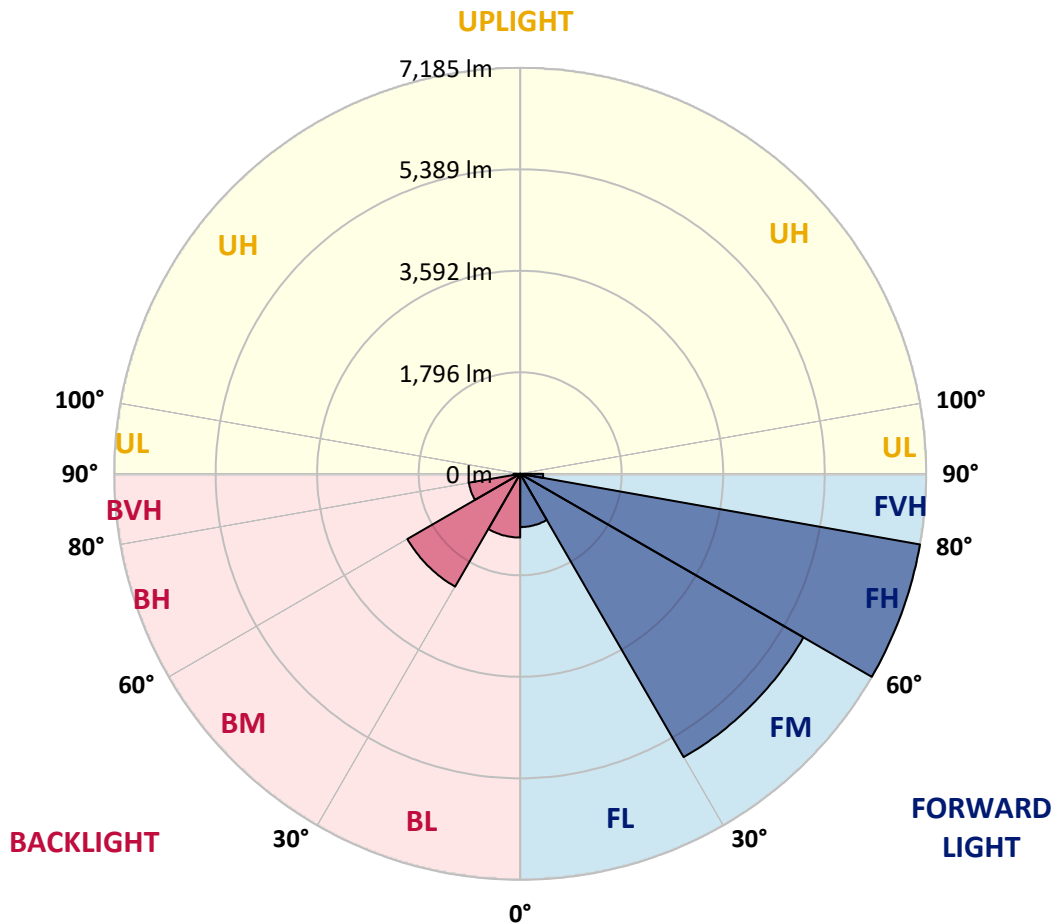
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.7	5.0			
FM (30°-60°)	5789.1	30.8			
FH (60°-80°)	7184.7	38.2			G3/7500
FVH (80°-90°)	408.8	2.2			G3/500
BL (0°-30°)	1127.4	6.0	B3/2500		
BM (30°-60°)	2305.1	12.3	B2/2500		
BH (60°-80°)	922.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	118.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1
2.5°	2310.0	2324.2	2330.3	2327.2	2342.5	2340.5	2361.8	2388.2	2424.8	2460.4
5°	2132.1	2147.4	2160.6	2172.8	2202.2	2211.4	2244.9	2295.7	2362.8	2430.9
7.5°	1966.5	1979.7	2000.0	2022.4	2072.2	2081.3	2137.2	2216.5	2310.0	2409.6
10°	1831.3	1844.5	1865.9	1891.3	1953.3	1964.4	2035.6	2141.3	2263.2	2389.2
12.5°	1773.4	1777.4	1789.6	1815.0	1868.9	1876.0	1954.3	2075.2	2217.5	2374.0
15°	1770.3	1778.5	1779.5	1792.7	1837.4	1840.5	1912.6	2032.5	2189.0	2370.9
17.5°	1800.8	1806.9	1797.8	1805.9	1843.5	1848.6	1905.5	2012.2	2179.9	2384.2
20°	1882.1	1887.2	1859.8	1848.6	1876.0	1880.1	1936.0	2025.4	2189.0	2411.6
22.5°	2054.9	2057.9	1990.9	1945.1	1947.2	1949.2	1998.0	2079.3	2224.6	2461.4
25°	2324.2	2322.2	2215.5	2127.0	2076.2	2065.1	2097.6	2166.7	2284.6	2527.5
27.5°	2639.2	2624.0	2517.3	2385.2	2274.4	2258.1	2251.0	2280.5	2369.9	2614.9
30°	2994.9	2980.7	2865.9	2693.1	2539.6	2513.2	2446.2	2430.9	2497.0	2733.8
32.5°	3385.2	3376.0	3238.8	3029.5	2824.2	2793.7	2680.9	2640.3	2692.1	2913.6
35°	3712.4	3704.3	3590.5	3375.0	3124.0	3086.4	2971.6	2925.8	2952.3	3144.3
37.5°	4008.2	4004.1	3906.5	3736.8	3477.7	3431.9	3302.9	3287.6	3282.5	3448.2
40°	4282.5	4272.4	4170.8	4081.3	3889.2	3847.6	3733.8	3720.5	3681.9	3822.2
42.5°	4586.4	4560.0	4412.6	4371.0	4319.1	4284.6	4216.5	4218.5	4133.2	4243.9
45°	4834.4	4819.1	4667.7	4643.3	4699.2	4685.0	4743.9	4759.2	4593.5	4686.0
47.5°	5100.6	5086.4	4958.4	4941.1	5092.5	5096.6	5304.9	5310.0	5042.7	5145.4
50°	5428.9	5408.6	5281.5	5302.9	5472.6	5487.8	5868.9	5834.4	5456.3	5611.8
52.5°	5645.4	5657.5	5630.1	5664.7	5896.4	5910.6	6423.8	6335.4	5865.9	6072.2
55°	5804.9	5829.3	5914.7	5993.9	6343.5	6357.8	6947.2	6812.0	6205.3	6499.0
57.5°	6010.2	5975.6	6135.2	6289.7	6768.3	6805.9	7456.3	7271.4	6506.1	6866.9
60°	6304.9	6280.5	6404.5	6633.2	7243.9	7303.9	7995.0	7685.0	6726.7	7158.6
62.5°	6902.5	6841.5	6860.8	7063.0	7843.5	7922.8	8602.7	8045.8	6836.4	7272.4
65°	7795.8	7691.1	7593.5	7733.8	8688.1	8766.3	9288.7	8329.3	6795.8	7051.9
67.5°	8920.8	8817.1	8697.2	8829.3	9932.0	9994.0	10135.2	8488.9	6475.6	6202.3
70°	9848.6	9810.0	9953.3	10497.0	11918.8	11920.8	11220.6	8356.7	5598.6	4397.4
72.5°	9725.7	9702.3	10457.4	12138.3	14422.8	14369.0	12248.0	7356.7	3771.4	1983.7
75°	7978.7	8130.1	9299.8	12108.8	15322.2	15315.1	11619.0	4676.9	1560.0	822.2
77.5°	4278.5	4518.3	6037.6	8940.1	11961.4	12141.3	8168.7	1636.2	669.7	526.4
80°	1395.3	1604.7	2406.5	4551.9	7772.4	7738.9	3501.0	642.3	458.3	373.0
82.5°	592.5	616.9	1075.2	2149.4	3988.8	3926.8	1114.8	368.9	322.2	255.1
85°	231.7	259.1	474.6	993.9	1727.7	1690.0	402.4	182.9	206.3	166.7
87.5°	76.2	92.5	169.7	340.4	537.6	518.3	98.6	63.0	89.4	76.2
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°
2505.1	0°	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1
2512.2	2.5°	2526.4	2542.7	2562.0	2590.5	2614.9	2635.2	2656.5	2669.7	2674.8	2690.1
2516.3	5°	2544.7	2580.3	2628.1	2674.8	2720.5	2748.0	2772.4	2784.6	2795.7	2803.9
2527.5	7.5°	2575.2	2620.9	2696.2	2757.1	2795.7	2818.1	2834.4	2830.3	2834.4	2836.4
2539.6	10°	2601.6	2665.7	2755.1	2813.0	2842.5	2843.5	2839.4	2825.2	2818.1	2819.1
2557.9	12.5°	2633.1	2704.3	2800.8	2849.6	2857.7	2835.4	2818.1	2793.7	2784.6	2780.5
2585.4	15°	2675.8	2757.1	2850.6	2868.9	2848.6	2820.1	2790.7	2751.0	2730.7	2714.4
2632.1	17.5°	2727.7	2817.1	2889.2	2876.0	2832.3	2785.6	2737.8	2677.9	2636.2	2618.9
2696.2	20°	2799.8	2880.1	2918.7	2860.8	2794.7	2723.6	2642.3	2569.1	2530.5	2513.2
2777.5	22.5°	2887.2	2964.4	2947.2	2834.4	2740.9	2627.0	2525.4	2471.6	2452.2	2440.1
2882.1	25°	2991.9	3057.9	2967.5	2795.7	2652.5	2499.0	2420.7	2403.5	2394.3	2385.2
3010.2	27.5°	3128.1	3163.6	2982.7	2738.8	2514.2	2362.8	2334.4	2337.4	2334.4	2319.1
3188.0	30°	3307.9	3300.8	2997.0	2646.4	2355.7	2239.8	2241.9	2255.1	2257.1	2247.0
3436.0	32.5°	3544.7	3472.6	3004.1	2526.4	2204.3	2132.1	2134.2	2148.4	2158.5	2141.3
3760.2	35°	3831.3	3672.8	2992.9	2376.0	2087.4	2029.5	2014.2	2018.3	2021.4	2005.1
4153.5	37.5°	4165.7	3897.4	2943.1	2209.4	1990.9	1928.9	1896.4	1868.9	1852.7	1837.4
4598.6	40°	4532.5	4142.3	2851.6	2046.8	1883.1	1822.2	1773.4	1721.6	1666.7	1646.3
5070.1	42.5°	4916.7	4394.3	2740.9	1891.3	1759.2	1709.4	1657.5	1582.3	1500.0	1458.3
5560.0	45°	5315.1	4652.5	2632.1	1737.8	1632.1	1610.8	1550.8	1460.4	1370.9	1318.1
6050.8	47.5°	5705.3	4896.4	2472.6	1583.3	1513.2	1536.6	1489.8	1406.5	1306.9	1223.6
6537.6	50°	6078.3	5125.0	2211.4	1426.8	1416.7	1514.2	1469.5	1349.6	1235.8	1129.1
7015.3	52.5°	6448.2	5310.0	1877.0	1284.6	1364.8	1508.1	1443.1	1311.0	1171.8	1060.0
7464.5	55°	6762.2	5405.5	1554.9	1162.6	1289.6	1456.3	1411.6	1265.3	1081.3	962.4
7772.4	57.5°	6941.1	5328.3	1286.6	1042.7	1186.0	1370.9	1357.7	1167.7	973.6	882.1
7832.4	60°	6863.9	5015.3	1067.1	938.0	1087.4	1278.5	1264.2	1071.1	891.3	804.9
7511.2	62.5°	6438.0	4418.7	893.3	846.5	998.0	1183.9	1170.7	997.0	828.3	744.9
6658.6	65°	5580.3	3594.5	758.1	770.3	907.5	1070.1	1089.4	935.0	778.5	697.2
5151.4	67.5°	4256.1	2603.7	652.4	704.3	819.1	958.3	1014.2	890.2	736.8	659.6
2980.7	70°	2425.8	1478.7	563.0	640.2	740.9	854.7	956.3	854.7	692.1	628.1
1116.9	72.5°	919.7	678.9	486.8	576.2	665.7	767.3	892.3	798.8	640.2	592.5
577.2	75°	490.9	413.6	409.6	501.0	579.3	681.9	812.0	743.9	601.6	626.0
399.4	77.5°	334.4	292.7	342.5	428.9	484.8	587.4	726.6	660.6	521.3	519.3
276.4	80°	231.7	207.3	278.5	345.5	375.0	493.9	634.1	567.1	424.8	396.3
170.7	82.5°	139.2	135.2	208.3	258.1	265.2	381.1	525.4	475.6	347.6	302.8
101.6	85°	76.2	80.3	133.1	151.4	154.5	266.3	411.6	367.9	267.3	224.6
36.6	87.5°	21.3	27.4	48.8	60.0	74.2	138.2	244.9	218.5	134.1	93.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
2505.1
2689.0
2805.9
2839.4
2821.2
2778.5
2719.5
2619.9
2511.2
2442.1
2385.2
2322.2
2252.0
2149.4
2016.3
1847.6
1655.5
1463.4
1314.0
1214.4
1119.9
1047.8
952.2
869.9
792.7
731.7
683.9
647.4
619.9
584.4
646.3
478.7
379.1
304.9
226.6
93.5
0.0

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