

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: P950163

Luminaire Tested: **GALN-SB4C-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950163  
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-SB4C-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

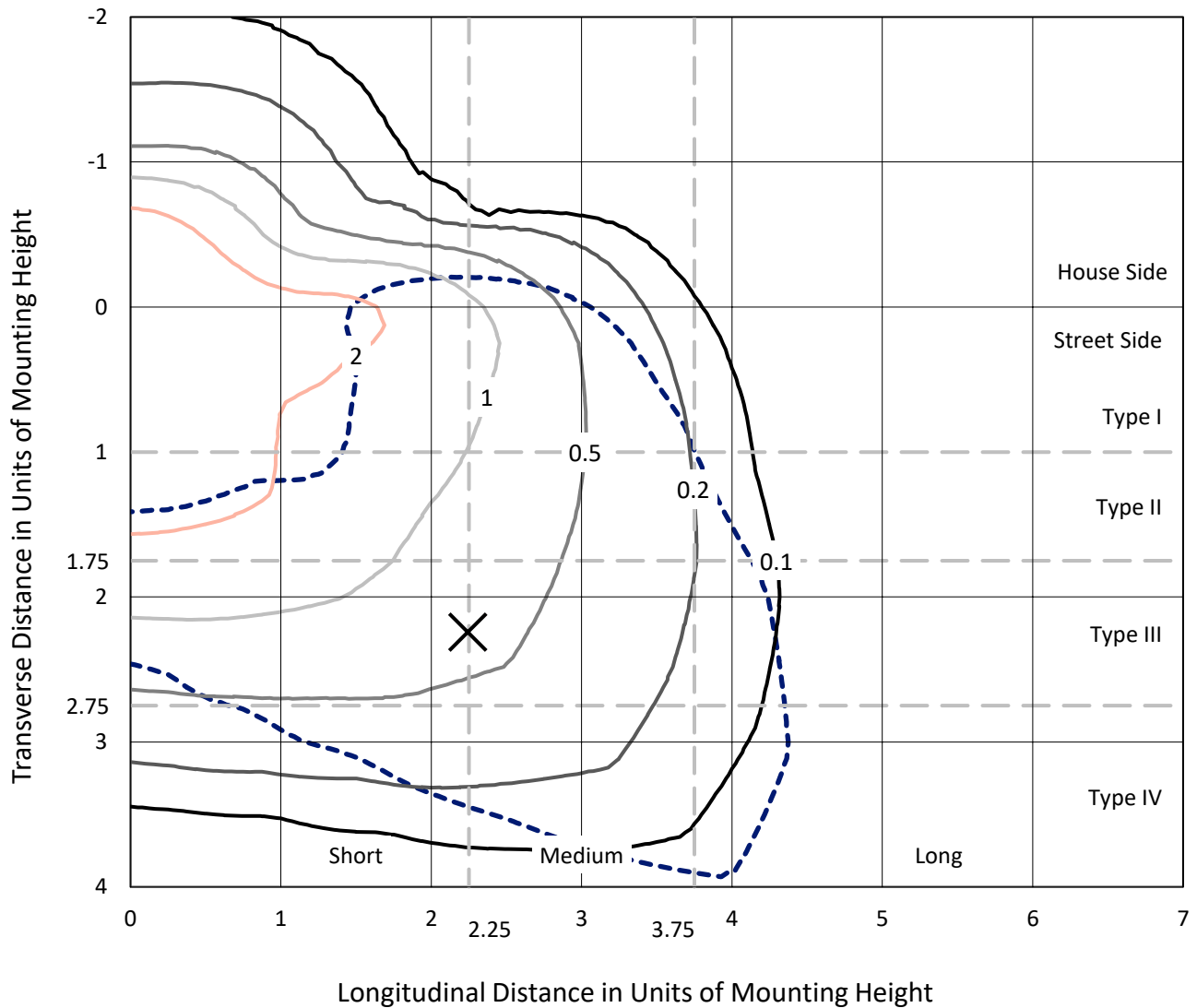
Lumens per Lamp: N/A  
Luminaire Lumens: 21707 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

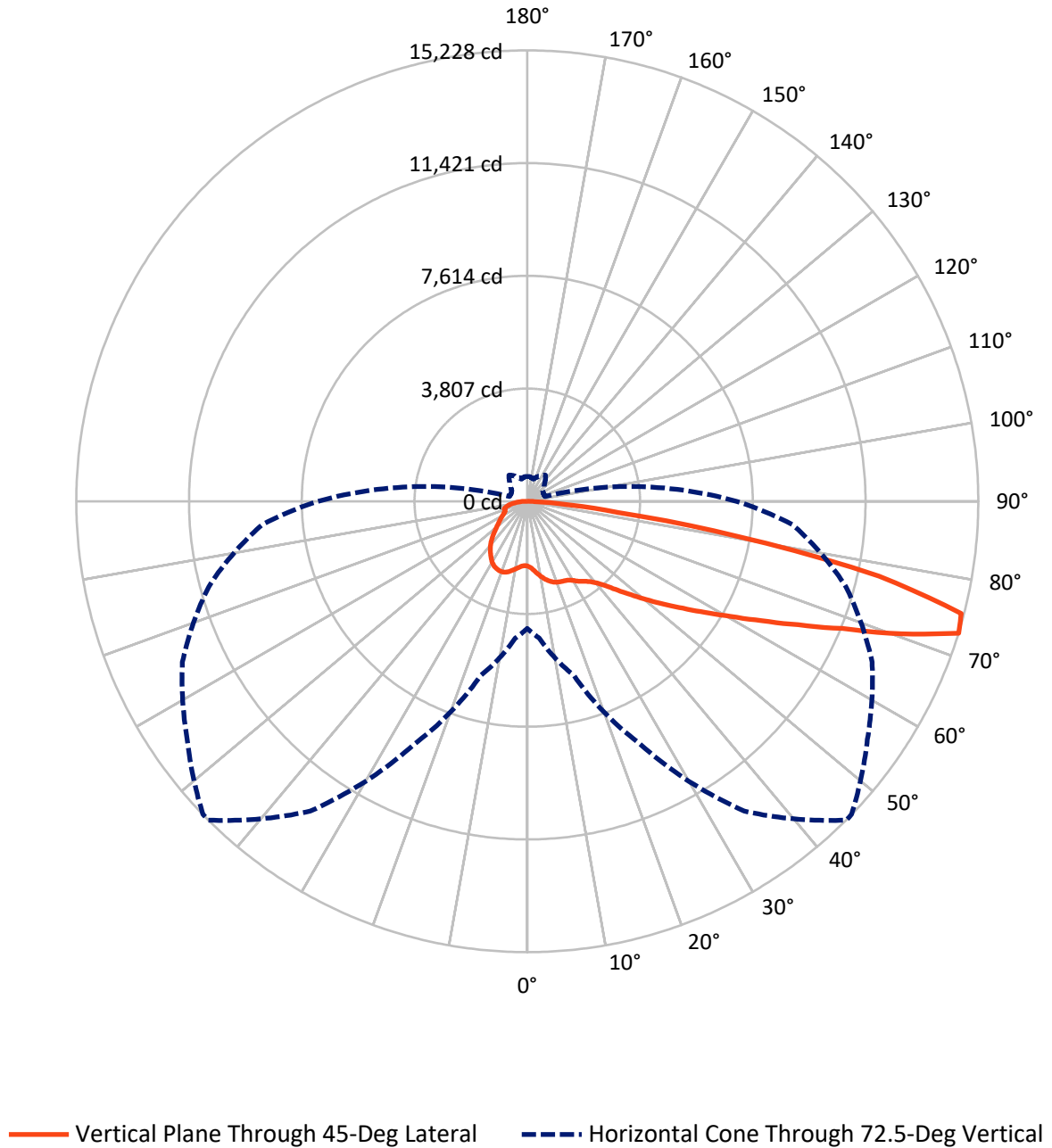
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4907.2	0.0	4907.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	16799.8	0.0	16799.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	21707.0	0.0	21707.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.9	1.0
10°-20°	743.1	3.4
20°-30°	1292.7	6.0
30°-40°	1853.1	8.5
40°-50°	2609.3	12.0
50°-60°	3996.7	18.4
60°-70°	5789.8	26.7
70°-80°	4623.5	21.3
80°-90°	575.8	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°	21707.0	100.0
0°-180°	21707.0	100.0



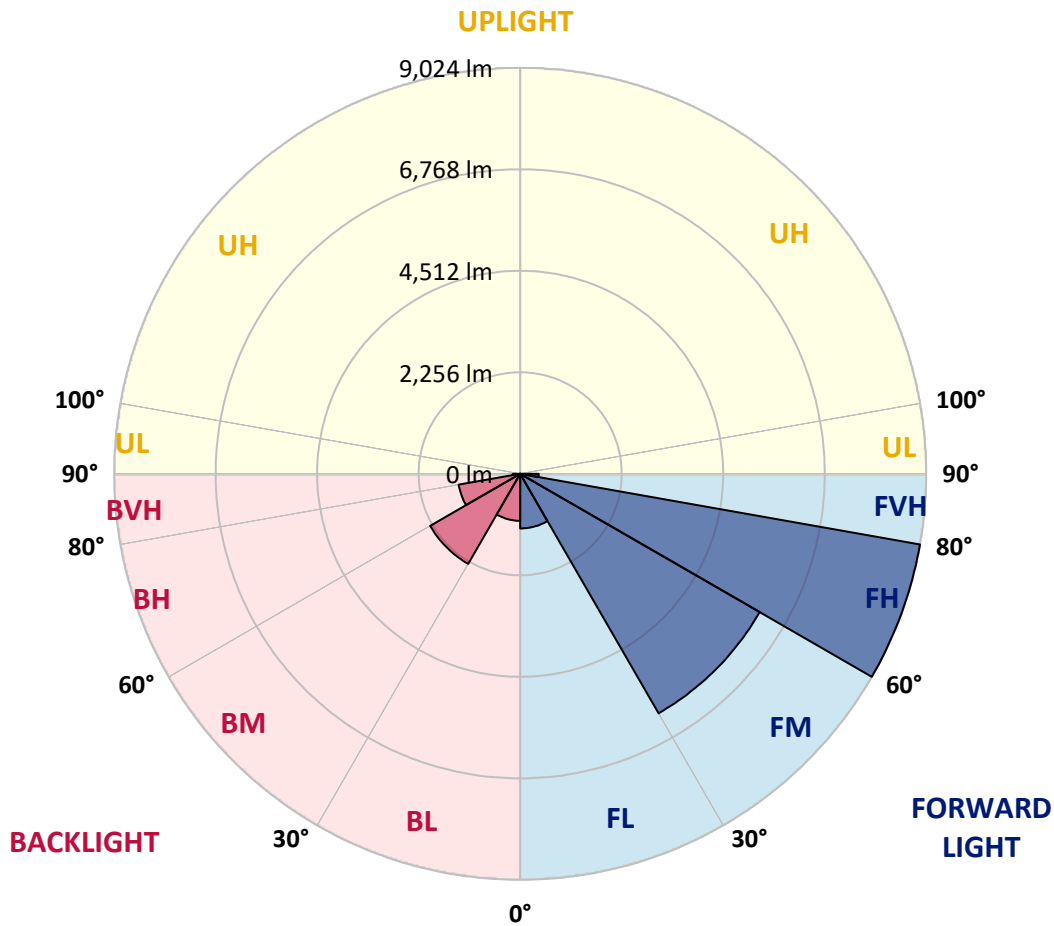
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.9	5.6			
FM (30°-60°)	6148.6	28.3			
FH (60°-80°)	9024.2	41.6			G4/12000
FVH (80°-90°)	413.1	1.9			G3/500
BL (0°-30°)	1044.8	4.8	B3/2500		
BM (30°-60°)	2310.6	10.6	B2/2500		
BH (60°-80°)	1389.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	162.7	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°	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8
2.5°	2275.6	2290.4	2276.7	2264.1	2258.4	2243.6	2242.4	2233.3	2227.5	2211.5
5°	2434.5	2454.0	2431.1	2405.9	2383.1	2346.5	2341.9	2315.6	2285.9	2251.6
7.5°	2614.1	2631.2	2604.9	2567.2	2527.1	2466.5	2465.4	2417.4	2370.5	2312.2
10°	2770.7	2793.6	2758.1	2706.7	2656.4	2587.8	2579.7	2524.9	2465.4	2389.9
12.5°	2909.1	2925.1	2890.8	2827.9	2769.6	2701.0	2690.7	2630.1	2563.7	2478.0
15°	3018.9	3039.4	2993.7	2926.2	2864.5	2797.0	2787.9	2733.0	2666.7	2576.3
17.5°	3090.9	3108.0	3061.2	2985.7	2926.2	2870.2	2863.3	2817.6	2759.3	2667.8
20°	3118.3	3136.6	3087.5	3010.9	2956.0	2912.5	2909.1	2875.9	2835.9	2752.4
22.5°	3145.8	3162.9	3098.9	3018.9	2970.8	2943.4	2942.2	2920.5	2904.5	2835.9
25°	3256.7	3261.3	3175.5	3060.0	2991.4	2967.4	2966.3	2965.1	2972.0	2918.2
27.5°	3352.8	3351.6	3278.4	3169.8	3063.5	3013.1	3012.0	3023.4	3045.2	3000.6
30°	3493.4	3480.8	3393.9	3280.7	3183.5	3105.8	3098.9	3088.6	3105.8	3070.3
32.5°	3791.9	3751.8	3611.2	3409.9	3283.0	3223.5	3214.4	3150.4	3157.2	3135.5
35°	4219.5	4166.9	3979.4	3654.6	3406.5	3321.9	3317.3	3236.1	3222.4	3203.0
37.5°	4728.4	4663.2	4444.8	4009.1	3619.2	3436.2	3429.4	3356.2	3300.2	3279.6
40°	5239.5	5157.2	4976.5	4441.4	3932.5	3627.2	3605.5	3494.6	3430.5	3396.2
42.5°	5735.8	5667.2	5512.8	4926.2	4319.0	3906.2	3858.2	3668.4	3620.3	3588.3
45°	6174.9	6113.2	6000.0	5444.2	4771.9	4285.9	4239.0	3929.1	3914.2	3914.2
47.5°	6531.7	6518.0	6397.9	5972.5	5305.9	4718.1	4636.9	4291.6	4331.6	4393.3
50°	6927.4	6889.6	6761.6	6492.8	5933.7	5213.2	5146.9	4736.4	4886.2	5055.4
52.5°	7291.0	7311.6	7168.6	7034.8	6642.6	5765.6	5648.9	5261.3	5584.9	5865.0
55°	7664.9	7666.1	7626.0	7607.7	7385.9	6376.2	6248.1	5892.5	6407.1	6754.7
57.5°	8016.0	8018.3	8077.7	8239.0	8248.1	7080.6	6935.4	6667.8	7320.7	7675.2
60°	8329.3	8345.3	8507.7	8885.0	9006.3	7887.9	7750.7	7583.7	8265.3	8622.0
62.5°	8434.5	8492.8	8854.2	9390.5	9755.2	8878.2	8743.2	8643.8	9257.8	9589.4
65°	8256.1	8389.9	9088.6	9807.9	10526.0	10054.8	9921.1	9812.4	10289.3	10601.4
67.5°	7818.1	7990.8	9074.9	10245.8	11461.4	11470.5	11345.9	11090.9	11395.0	11515.1
70°	6664.4	6922.8	8275.6	10409.3	12535.1	13406.5	13286.4	12630.0	12498.5	11917.6
72.5°	4293.9	4641.5	6093.7	9063.4	12774.1	15228.1	15221.2	14019.4	12847.3	11135.5
75°	1566.6	1779.3	2831.3	5688.9	10722.7	15135.4	15180.0	13781.5	11727.8	8601.5
77.5°	570.6	624.4	924.0	2186.4	6594.6	12144.0	12236.7	11017.7	8347.6	4316.7
80°	299.6	329.3	473.4	848.5	2825.6	7212.1	7357.3	6547.7	3923.4	1300.2
82.5°	165.8	179.5	265.3	460.8	1272.7	3084.0	3170.9	2586.6	1380.2	551.2
85°	89.2	94.9	124.6	251.6	622.1	1069.2	1093.2	773.0	550.0	323.6
87.5°	26.3	32.0	41.2	80.0	243.6	240.1	245.9	153.2	217.3	163.5
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°
2189.8	0°	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8
2207.0	2.5°	2200.1	2196.7	2184.1	2178.4	2171.5	2170.4	2176.1	2177.2	2178.4	2179.5
2232.1	5°	2220.7	2209.3	2197.8	2191.0	2193.2	2194.4	2205.8	2213.8	2219.5	2224.1
2279.0	7.5°	2260.7	2251.6	2232.1	2231.0	2234.4	2244.7	2259.6	2277.9	2288.2	2296.2
2339.6	10°	2320.2	2303.0	2280.2	2283.6	2290.4	2305.3	2336.2	2351.0	2368.2	2383.1
2413.9	12.5°	2380.8	2365.9	2339.6	2341.9	2353.3	2379.6	2409.4	2427.7	2439.1	2450.5
2494.0	15°	2459.7	2433.4	2404.8	2404.8	2425.4	2454.0	2467.7	2482.6	2489.4	2502.0
2579.7	17.5°	2540.9	2506.6	2468.8	2466.5	2491.7	2505.4	2513.4	2515.7	2518.0	2531.7
2663.2	20°	2622.1	2584.3	2530.6	2526.0	2531.7	2529.4	2528.3	2526.0	2529.4	2546.6
2749.0	22.5°	2702.1	2658.7	2584.3	2563.7	2547.7	2526.0	2524.9	2523.7	2526.0	2543.2
2841.6	25°	2795.9	2743.3	2643.8	2582.0	2528.3	2498.6	2502.0	2503.1	2505.4	2519.1
2937.7	27.5°	2897.6	2839.3	2698.7	2576.3	2479.1	2458.5	2452.8	2456.3	2464.3	2486.0
3033.7	30°	2999.4	2930.8	2749.0	2553.4	2417.4	2388.8	2370.5	2378.5	2403.6	2425.4
3117.2	32.5°	3092.0	3023.4	2789.0	2503.1	2338.5	2293.9	2269.9	2280.2	2305.3	2313.3
3209.8	35°	3200.7	3122.9	2806.2	2423.1	2252.7	2184.1	2152.1	2137.2	2149.8	2141.8
3318.5	37.5°	3321.9	3240.7	2803.9	2317.9	2152.1	2073.2	2028.6	1972.5	1946.2	1918.8
3478.5	40°	3501.4	3384.8	2776.4	2191.0	2027.4	1955.4	1875.3	1780.4	1721.0	1667.2
3737.0	42.5°	3746.1	3584.9	2726.1	2051.4	1886.8	1819.3	1710.7	1599.8	1506.0	1416.8
4129.2	45°	4110.9	3846.8	2663.2	1902.8	1734.7	1668.4	1550.6	1426.0	1319.6	1205.3
4686.1	47.5°	4636.9	4199.0	2603.8	1733.6	1574.6	1514.0	1407.7	1292.2	1166.4	1055.5
5491.1	50°	5359.6	4704.4	2548.9	1568.9	1416.8	1371.1	1286.4	1168.7	1041.7	952.5
6434.5	52.5°	6279.0	5391.6	2526.0	1409.9	1269.3	1252.1	1184.7	1074.9	954.8	879.4
7534.6	55°	7334.4	6213.8	2526.0	1257.9	1140.1	1145.8	1098.9	997.1	893.1	825.6
8668.9	57.5°	8411.6	7046.3	2480.3	1117.2	1030.3	1054.3	1024.6	935.4	841.6	771.9
9861.6	60°	9404.2	7743.8	2295.0	989.1	933.1	970.8	951.4	874.8	760.4	702.1
10858.7	62.5°	10166.9	8137.2	1938.2	887.4	853.1	896.5	886.2	794.7	745.6	721.6
11677.5	65°	10548.8	8073.2	1482.0	797.0	785.6	853.1	831.3	827.9	789.0	761.6
11943.9	67.5°	10314.4	7522.0	1074.9	730.7	746.7	813.0	896.5	910.2	838.2	784.4
11193.8	70°	9286.4	6524.8	800.5	667.8	697.5	814.2	1022.3	952.5	822.2	759.3
8977.7	72.5°	7064.6	4865.6	620.9	601.5	633.5	819.9	1078.3	933.1	776.4	839.3
5592.9	75°	4040.0	2671.2	498.6	520.3	553.5	766.1	1049.7	882.8	741.0	770.7
2216.1	77.5°	1540.3	1026.9	411.7	440.2	444.8	669.0	1004.0	879.4	705.5	688.4
664.4	80°	534.0	401.4	340.8	349.9	344.2	594.6	962.8	765.0	577.5	516.9
274.4	82.5°	218.4	200.1	269.9	258.4	244.7	462.0	777.6	625.5	472.3	417.4
132.6	85°	94.9	126.9	178.4	156.7	141.8	320.2	623.2	529.4	399.1	344.2
43.5	87.5°	19.4	48.0	75.5	70.9	73.2	213.8	442.5	376.2	282.4	211.5
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>
2189.8
2184.1
2226.4
2298.4
2379.6
2455.1
2506.6
2536.3
2553.4
2554.6
2537.4
2507.7
2449.4
2341.9
2166.9
1936.0
1670.7
1408.8
1191.5
1042.9
946.8
873.6
818.8
760.4
693.0
713.5
752.4
775.3
749.0
832.5
770.7
627.8
499.7
412.8
343.1
165.8
0.0

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