

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: P948609

Luminaire Tested: **GALN-SB3C-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948609
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-SB3C-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20801 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

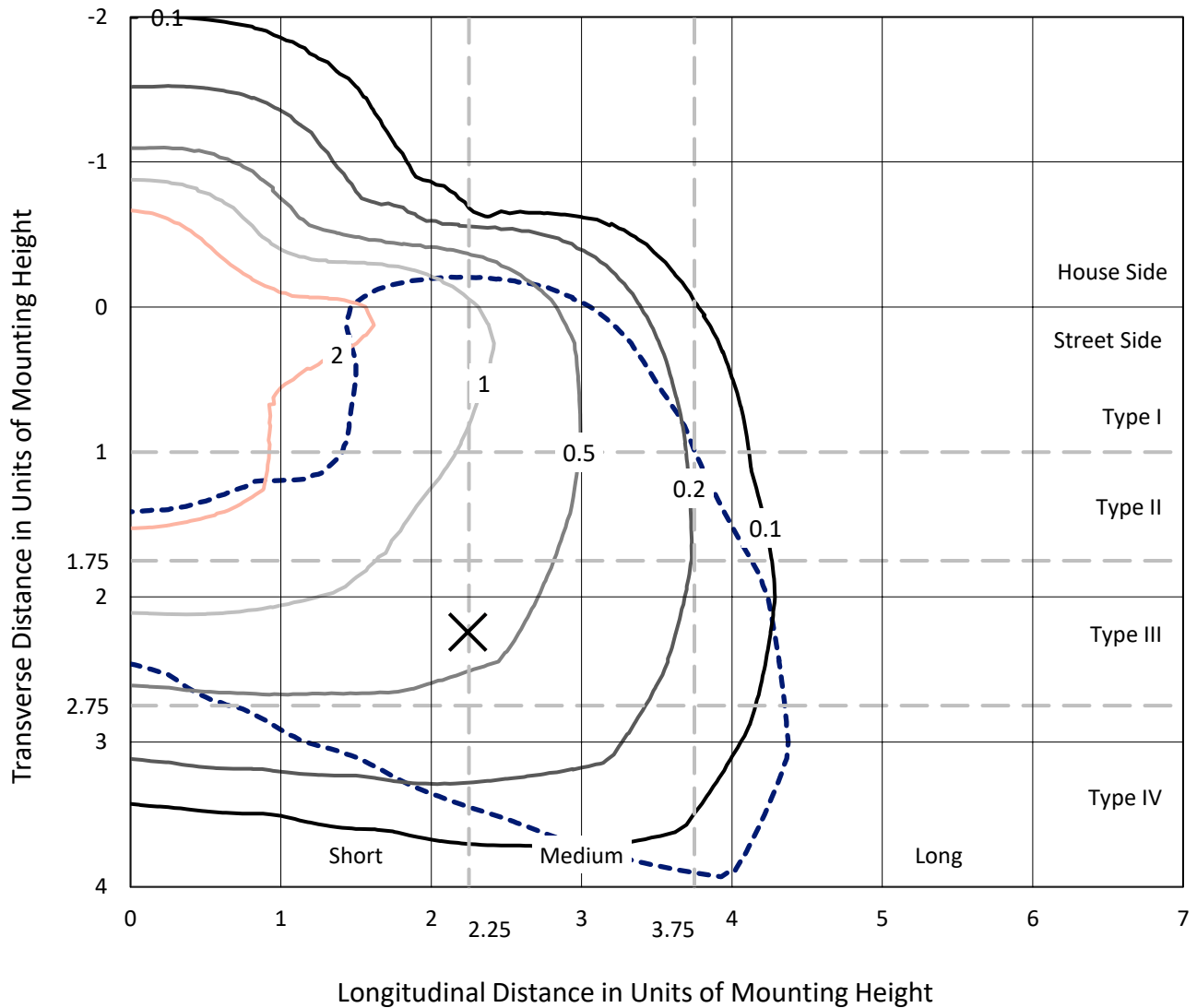
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

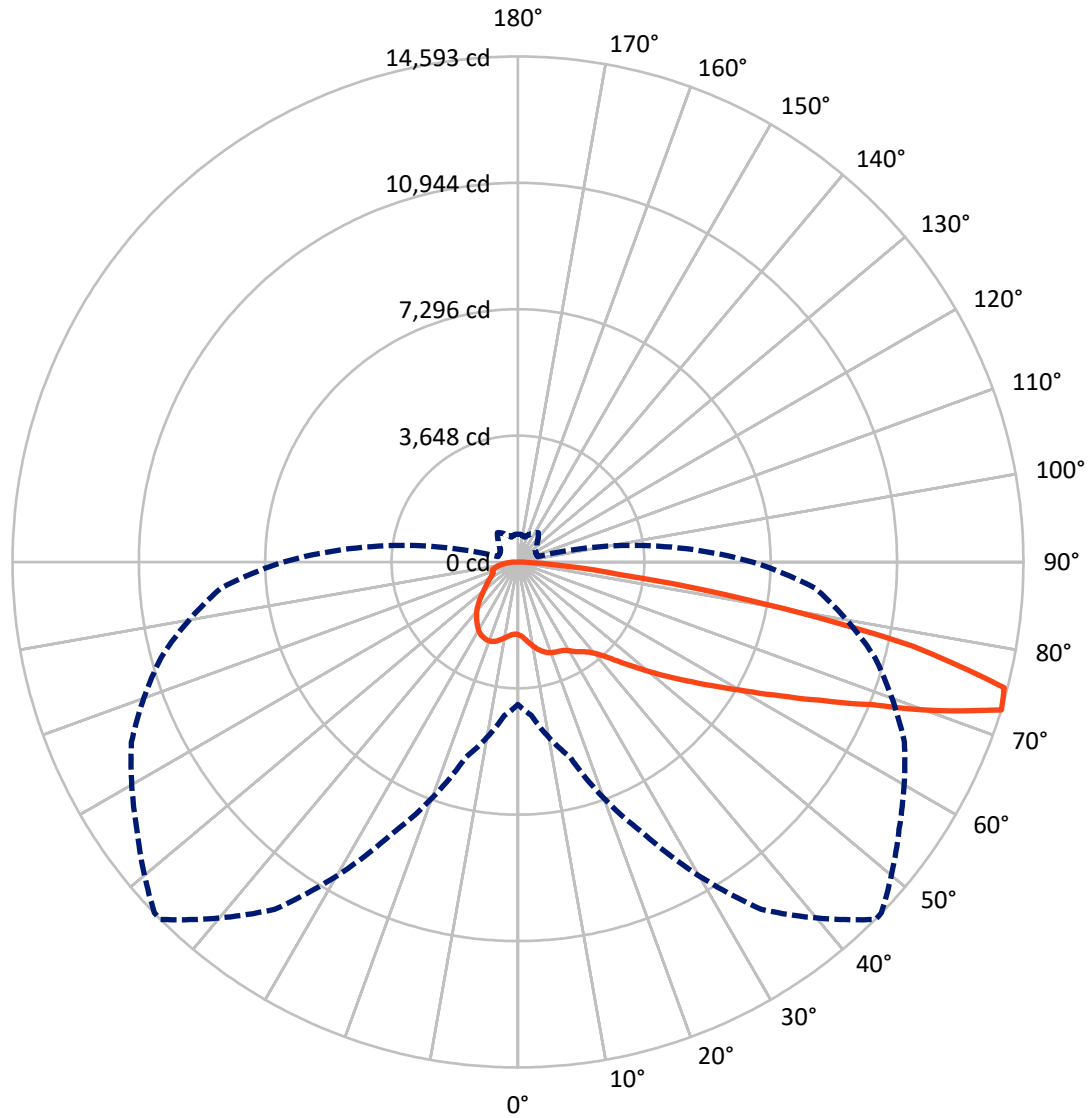
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4702.4	0.0	4702.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16098.6	0.0	16098.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	20801.0	0.0	20801.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.0
10°-20°	712.1	3.4
20°-30°	1238.7	6.0
30°-40°	1775.8	8.5
40°-50°	2500.4	12.0
50°-60°	3829.9	18.4
60°-70°	5548.2	26.7
70°-80°	4430.5	21.3
80°-90°	551.8	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°	20801.0	100.0
0°-180°	20801.0	100.0

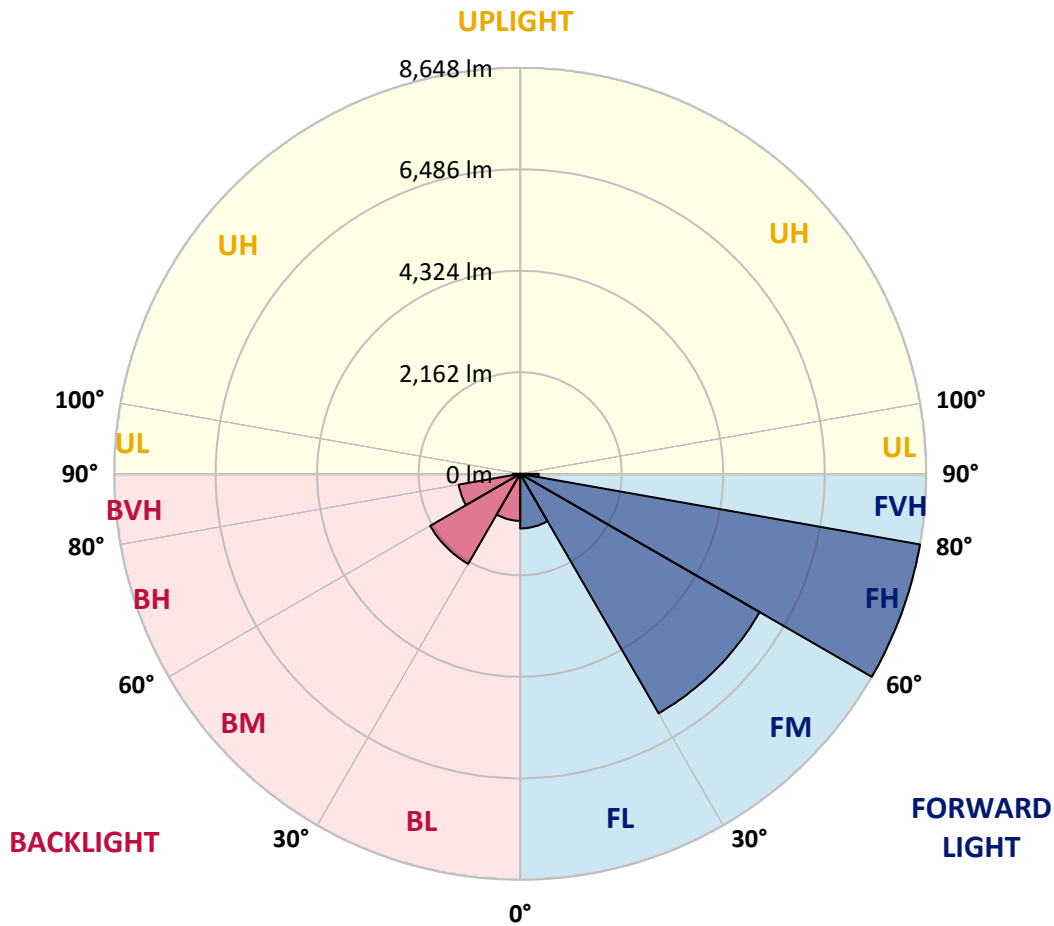


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.2	5.6			
FM (30°-60°)	5891.9	28.3			
FH (60°-80°)	8647.6	41.6			G4/12000
FVH (80°-90°)	395.9	1.9			G3/500
BL (0°-30°)	1001.2	4.8	B3/2500		
BM (30°-60°)	2214.2	10.6	B2/2500		
BH (60°-80°)	1331.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	155.9	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°	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4
2.5°	2180.6	2194.8	2181.7	2169.6	2164.2	2149.9	2148.8	2140.1	2134.6	2119.2
5°	2332.9	2351.5	2329.6	2305.5	2283.6	2248.5	2244.2	2219.0	2190.5	2157.6
7.5°	2504.9	2521.4	2496.2	2460.0	2421.7	2363.6	2362.5	2316.5	2271.5	2215.7
10°	2655.1	2677.0	2643.0	2593.7	2545.5	2479.7	2472.1	2419.5	2362.5	2290.2
12.5°	2787.7	2803.0	2770.1	2709.9	2654.0	2588.2	2578.4	2520.3	2456.7	2374.6
15°	2892.9	2912.6	2868.7	2804.1	2744.9	2680.3	2671.5	2618.9	2555.4	2468.8
17.5°	2961.9	2978.3	2933.4	2861.1	2804.1	2750.4	2743.8	2700.0	2644.1	2556.5
20°	2988.2	3005.7	2958.6	2885.2	2832.6	2790.9	2787.7	2755.9	2717.5	2637.5
22.5°	3014.5	3030.9	2969.6	2892.9	2846.8	2820.5	2819.4	2798.6	2783.3	2717.5
25°	3120.8	3125.2	3043.0	2932.3	2866.6	2843.5	2842.4	2841.4	2847.9	2796.4
27.5°	3212.8	3211.7	3141.6	3037.5	2935.6	2887.4	2886.3	2897.2	2918.1	2875.3
30°	3347.6	3335.6	3252.3	3143.8	3050.6	2976.1	2969.6	2959.7	2976.1	2942.2
32.5°	3633.6	3595.2	3460.5	3267.6	3146.0	3089.0	3080.2	3018.9	3025.4	3004.6
35°	4043.4	3993.0	3813.3	3502.1	3264.3	3183.2	3178.9	3101.1	3087.9	3069.3
37.5°	4531.0	4468.6	4259.3	3841.8	3468.1	3292.8	3286.2	3216.1	3162.4	3142.7
40°	5020.9	4942.0	4768.8	4256.0	3768.4	3475.8	3455.0	3348.7	3287.3	3254.5
42.5°	5496.4	5430.7	5282.7	4720.6	4138.8	3743.2	3697.2	3515.3	3469.2	3438.6
45°	5917.2	5858.0	5749.6	5217.0	4572.7	4107.0	4062.1	3765.1	3750.9	3750.9
47.5°	6259.1	6245.9	6130.9	5723.3	5084.4	4521.2	4443.4	4112.5	4150.8	4210.0
50°	6638.2	6602.1	6479.3	6221.8	5686.0	4995.7	4932.1	4538.7	4682.3	4844.4
52.5°	6986.7	7006.4	6869.4	6741.2	6365.4	5524.9	5413.1	5041.7	5351.8	5620.2
55°	7345.0	7346.1	7307.7	7290.2	7077.6	6110.1	5987.3	5646.5	6139.6	6472.8
57.5°	7681.4	7683.6	7740.6	7895.1	7903.9	6785.1	6645.9	6389.5	7015.2	7354.9
60°	7981.7	7997.0	8152.6	8514.2	8630.4	7558.7	7427.2	7267.2	7920.3	8262.2
62.5°	8082.5	8138.3	8484.6	8998.5	9348.1	8507.6	8378.3	8283.0	8871.4	9189.2
65°	7911.5	8039.7	8709.2	9398.5	10086.6	9635.2	9507.0	9402.9	9859.8	10159.0
67.5°	7491.8	7657.3	8696.1	9818.2	10983.0	10991.8	10872.3	10628.0	10919.4	11034.5
70°	6386.2	6633.8	7930.1	9974.9	12011.9	12846.9	12731.9	12102.9	11976.9	11420.2
72.5°	4114.6	4447.8	5839.4	8685.1	12240.9	14592.5	14585.9	13434.2	12311.1	10670.7
75°	1501.2	1705.0	2713.1	5451.5	10275.1	14503.7	14546.5	13206.3	11238.3	8242.4
77.5°	546.8	598.3	885.4	2095.1	6319.4	11637.2	11725.9	10557.8	7999.2	4136.6
80°	287.1	315.6	453.7	813.1	2707.7	6911.1	7050.2	6274.4	3759.6	1245.9
82.5°	158.9	172.0	254.2	441.6	1219.6	2955.3	3038.6	2478.7	1322.6	528.2
85°	85.5	90.9	119.4	241.1	596.1	1024.6	1047.6	740.7	527.1	310.1
87.5°	25.2	30.7	39.4	76.7	233.4	230.1	235.6	146.8	208.2	156.7
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°
2098.4	0°	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4	2098.4
2114.9	2.5°	2108.3	2105.0	2092.9	2087.5	2080.9	2079.8	2085.3	2086.4	2087.5	2088.6
2139.0	5°	2128.0	2117.0	2106.1	2099.5	2101.7	2102.8	2113.8	2121.4	2126.9	2131.3
2183.9	7.5°	2166.4	2157.6	2139.0	2137.9	2141.2	2151.0	2165.3	2182.8	2192.7	2200.3
2242.0	10°	2223.3	2206.9	2185.0	2188.3	2194.8	2209.1	2238.7	2252.9	2269.4	2283.6
2313.2	12.5°	2281.4	2267.2	2242.0	2244.2	2255.1	2280.3	2308.8	2326.3	2337.3	2348.3
2389.9	15°	2357.0	2331.8	2304.4	2304.4	2324.1	2351.5	2364.7	2378.9	2385.5	2397.6
2472.1	17.5°	2434.8	2401.9	2365.8	2363.6	2387.7	2400.9	2408.5	2410.7	2412.9	2426.1
2552.1	20°	2512.6	2476.5	2425.0	2420.6	2426.1	2423.9	2422.8	2420.6	2423.9	2440.3
2634.3	22.5°	2589.3	2547.7	2476.5	2456.7	2441.4	2420.6	2419.5	2418.4	2420.6	2437.0
2723.0	25°	2679.2	2628.8	2533.4	2474.3	2422.8	2394.3	2397.6	2398.7	2400.9	2414.0
2815.1	27.5°	2776.7	2720.8	2586.0	2468.8	2375.6	2355.9	2350.4	2353.7	2361.4	2382.2
2907.1	30°	2874.2	2808.5	2634.3	2446.9	2316.5	2289.1	2271.5	2279.2	2303.3	2324.1
2987.1	32.5°	2963.0	2897.2	2672.6	2398.7	2240.9	2198.1	2175.1	2185.0	2209.1	2216.8
3075.9	35°	3067.1	2992.6	2689.0	2322.0	2158.7	2092.9	2062.3	2048.0	2060.1	2052.4
3179.9	37.5°	3183.2	3105.4	2686.8	2221.1	2062.3	1986.6	1943.9	1890.2	1865.0	1838.7
3333.4	40°	3355.3	3243.5	2660.6	2099.5	1942.8	1873.8	1797.1	1706.1	1649.1	1597.6
3581.0	42.5°	3589.8	3435.3	2612.3	1965.8	1808.0	1743.4	1639.3	1533.0	1443.1	1357.7
3956.9	45°	3939.3	3686.2	2552.1	1823.4	1662.3	1598.7	1485.9	1366.4	1264.5	1155.0
4490.5	47.5°	4443.4	4023.7	2495.1	1661.2	1508.9	1450.8	1348.9	1238.2	1117.7	1011.4
5261.9	50°	5135.9	4508.0	2442.5	1503.4	1357.7	1313.8	1232.8	1119.9	998.3	912.8
6165.9	52.5°	6016.9	5166.6	2420.6	1351.1	1216.3	1199.9	1135.2	1030.0	915.0	842.7
7220.1	55°	7028.3	5954.5	2420.6	1205.4	1092.5	1098.0	1053.0	955.5	855.8	791.2
8307.1	57.5°	8060.5	6752.2	2376.7	1070.6	987.3	1010.3	981.8	896.3	806.5	739.7
9450.0	60°	9011.7	7420.6	2199.2	947.8	894.2	930.3	911.7	838.3	728.7	672.8
10405.5	62.5°	9742.6	7797.6	1857.3	850.3	817.5	859.1	849.2	761.6	714.4	691.4
11190.1	65°	10108.6	7736.2	1420.1	763.8	752.8	817.5	796.6	793.3	756.1	729.8
11445.4	67.5°	9883.9	7208.0	1030.0	700.2	715.5	779.1	859.1	872.2	803.2	751.7
10726.6	70°	8898.8	6252.5	767.0	639.9	668.4	780.2	979.6	912.8	787.9	727.6
8603.0	72.5°	6769.7	4662.5	595.0	576.4	607.1	785.7	1033.3	894.2	744.0	804.3
5359.5	75°	3871.4	2559.7	477.8	498.6	530.4	734.2	1005.9	845.9	710.1	738.6
2123.6	77.5°	1476.0	984.0	394.5	421.9	426.3	641.0	962.1	842.7	676.1	659.7
636.6	80°	511.7	384.6	326.5	335.3	329.8	569.8	922.6	733.1	553.4	495.3
263.0	82.5°	209.3	191.8	258.6	247.6	234.5	442.7	745.1	599.4	452.6	400.0
127.1	85°	90.9	121.6	170.9	150.1	135.9	306.8	597.2	507.3	382.4	329.8
41.6	87.5°	18.6	46.0	72.3	67.9	70.1	204.9	424.1	360.5	270.7	202.7
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>
2098.4
2092.9
2133.5
2202.5
2280.3
2352.6
2401.9
2430.4
2446.9
2448.0
2431.5
2403.0
2347.2
2244.2
2076.5
1855.2
1600.9
1350.0
1141.8
999.4
907.3
837.2
784.6
728.7
664.0
683.8
721.0
742.9
717.7
797.7
738.6
601.6
478.9
395.6
328.7
158.9
0.0

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