

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: P950793

Luminaire Tested: **GALN-SB5A-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950793
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-SB5A-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21632 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

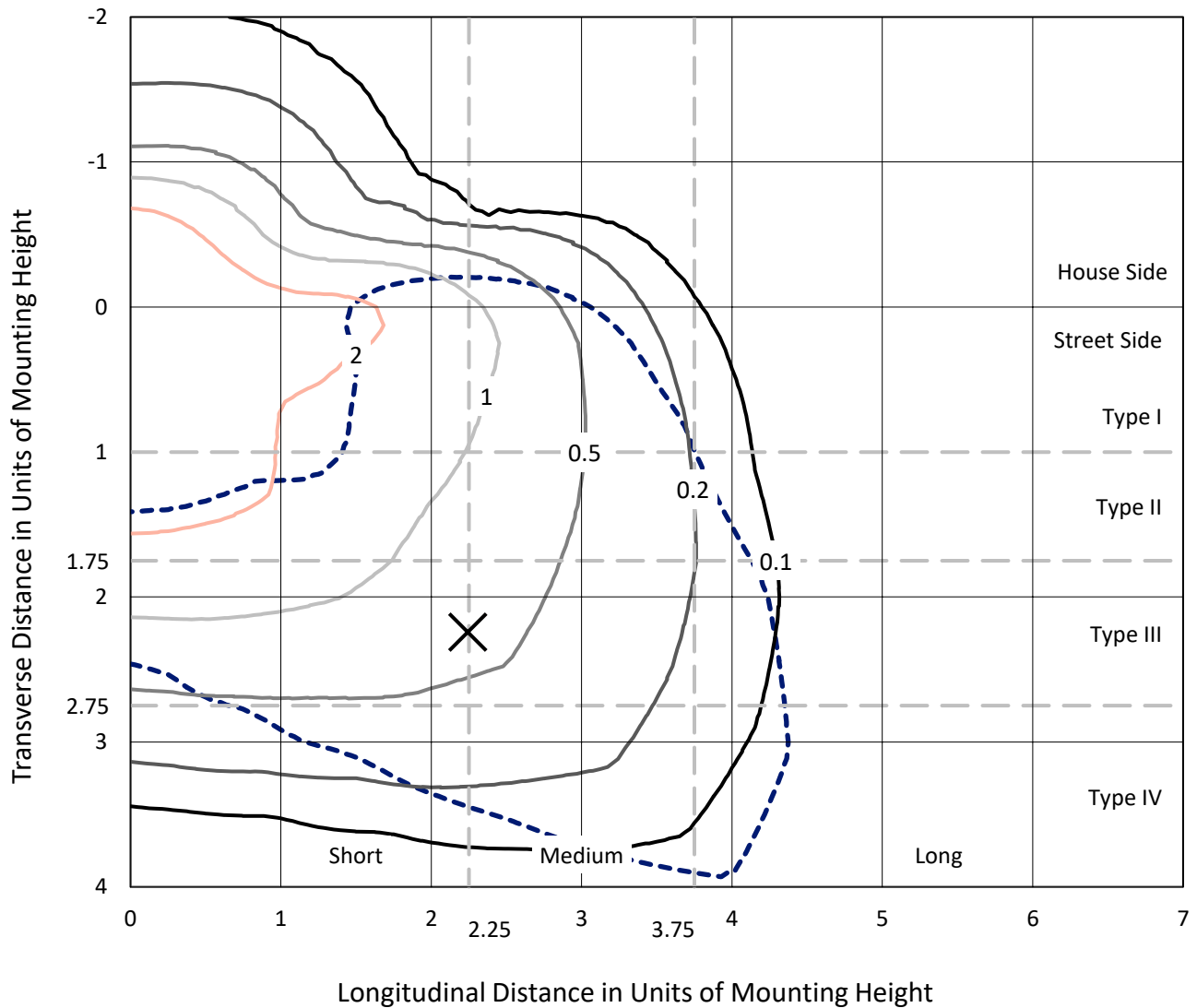
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

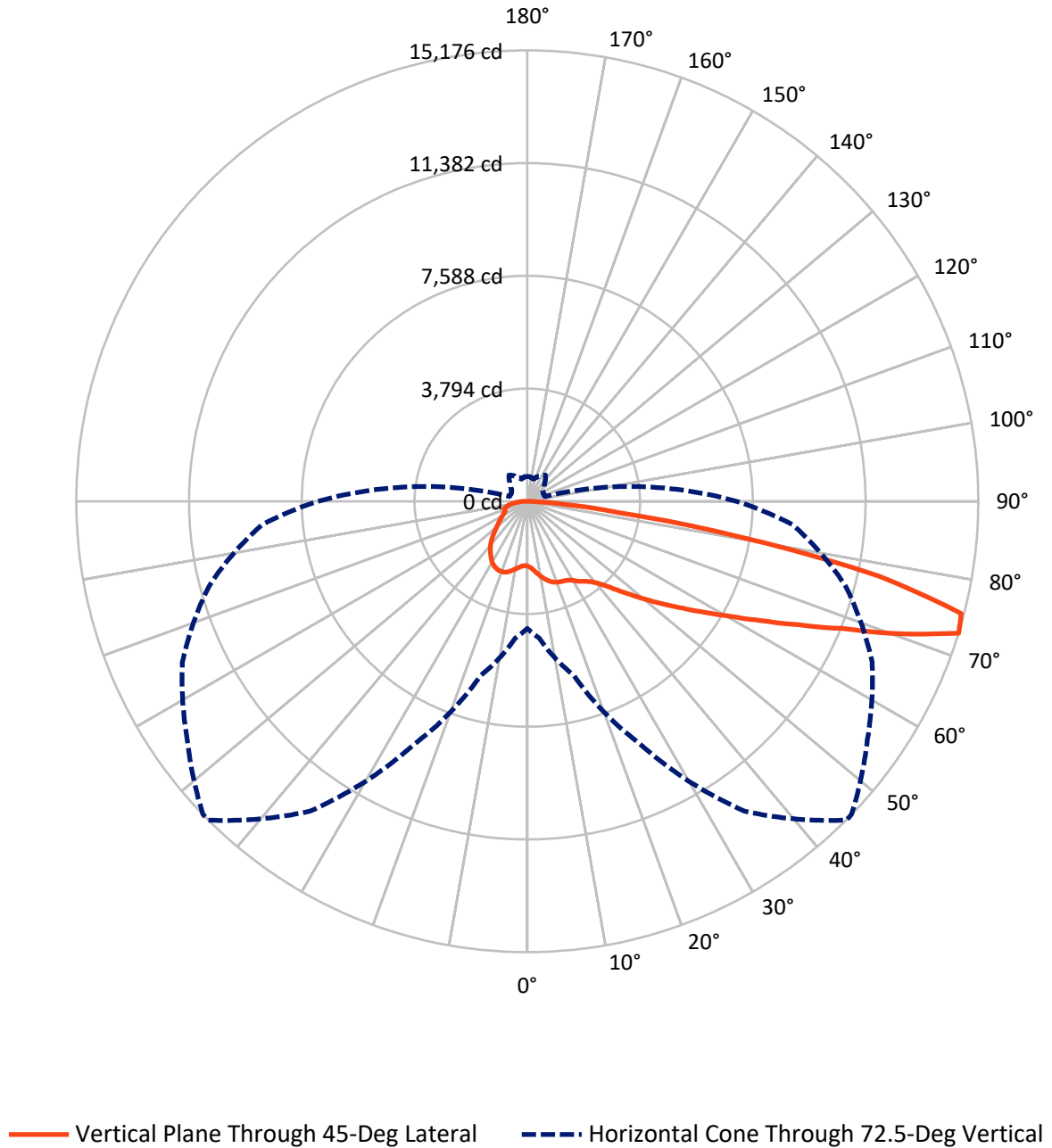
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4890.2	0.0	4890.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16741.7	0.0	16741.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	21632.0	0.0	21632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	1.0
10°-20°	740.5	3.4
20°-30°	1288.2	6.0
30°-40°	1846.7	8.5
40°-50°	2600.3	12.0
50°-60°	3982.9	18.4
60°-70°	5769.8	26.7
70°-80°	4607.5	21.3
80°-90°	573.8	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°	21632.0	100.0
0°-180°	21632.0	100.0



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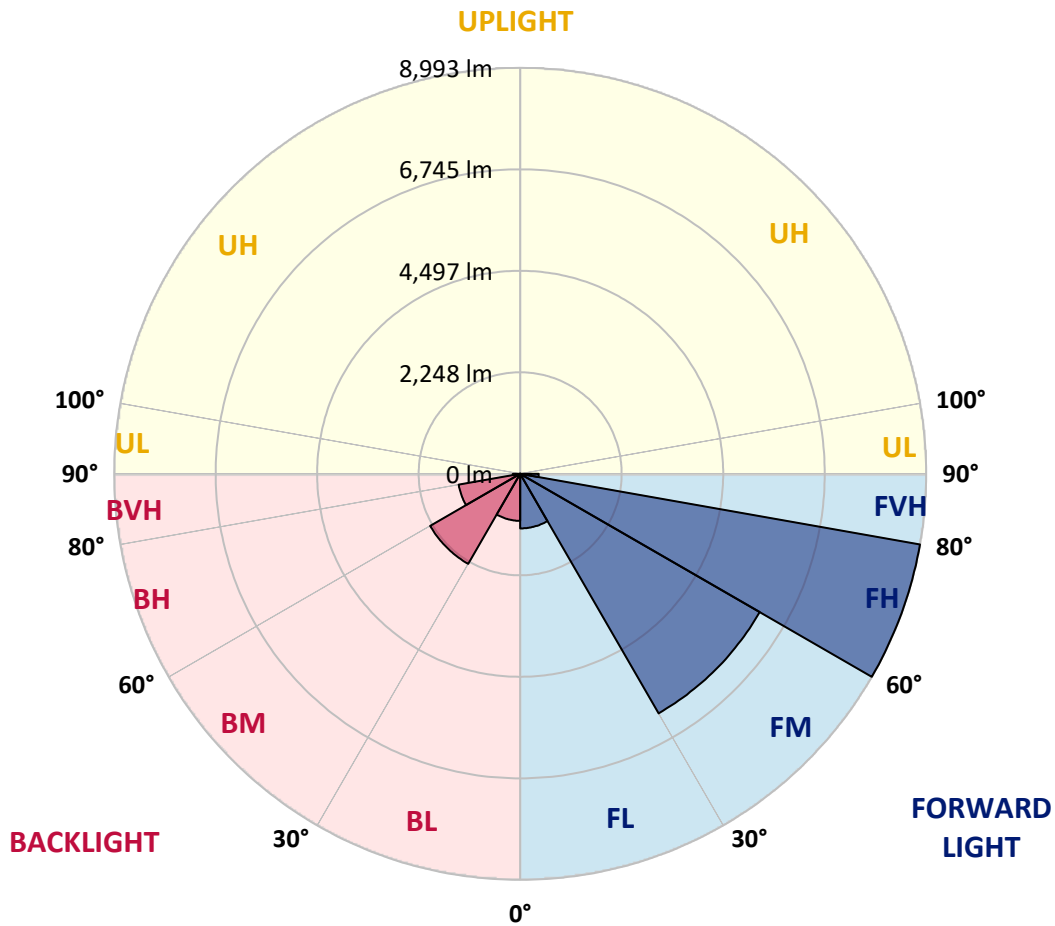
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.7	5.6			
FM (30°-60°)	6127.3	28.3			
FH (60°-80°)	8993.1	41.6			G4/12000
FVH (80°-90°)	411.7	1.9			G3/500
BL (0°-30°)	1041.2	4.8	B3/2500		
BM (30°-60°)	2302.6	10.6	B2/2500		
BH (60°-80°)	1384.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	162.2	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°	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2
2.5°	2267.7	2282.5	2268.9	2256.3	2250.6	2235.8	2234.7	2225.6	2219.9	2203.9
5°	2426.1	2445.5	2422.7	2397.6	2374.8	2338.4	2333.8	2307.6	2278.0	2243.8
7.5°	2605.0	2622.1	2595.9	2558.3	2518.4	2458.0	2456.9	2409.0	2362.3	2304.2
10°	2761.1	2783.9	2748.6	2697.3	2647.2	2578.8	2570.8	2516.1	2456.9	2381.7
12.5°	2899.0	2915.0	2880.8	2818.1	2760.0	2691.6	2681.4	2621.0	2554.9	2469.4
15°	3008.4	3028.9	2983.4	2916.1	2854.6	2787.4	2778.2	2723.5	2657.4	2567.4
17.5°	3080.2	3097.3	3050.6	2975.4	2916.1	2860.3	2853.4	2807.9	2749.7	2658.6
20°	3107.6	3125.8	3076.8	3000.4	2945.7	2902.4	2899.0	2866.0	2826.1	2742.9
22.5°	3134.9	3152.0	3088.2	3008.4	2960.6	2933.2	2932.1	2910.4	2894.5	2826.1
25°	3245.5	3250.0	3164.5	3049.4	2981.1	2957.1	2956.0	2954.9	2961.7	2908.1
27.5°	3341.2	3340.0	3267.1	3158.8	3052.9	3002.7	3001.6	3013.0	3034.6	2990.2
30°	3481.3	3468.8	3382.2	3269.4	3172.5	3095.0	3088.2	3077.9	3095.0	3059.7
32.5°	3778.8	3738.9	3598.7	3398.2	3271.7	3212.4	3203.3	3139.5	3146.3	3124.7
35°	4205.0	4152.5	3965.7	3642.0	3394.7	3310.4	3305.8	3224.9	3211.3	3191.9
37.5°	4712.1	4647.1	4429.5	3995.3	3606.7	3424.4	3417.5	3344.6	3288.8	3268.2
40°	5221.4	5139.4	4959.3	4426.0	3918.9	3614.7	3593.0	3482.5	3418.7	3384.5
42.5°	5716.0	5647.6	5493.8	4909.2	4304.1	3892.7	3844.9	3655.7	3607.8	3575.9
45°	6153.6	6092.1	5979.2	5425.4	4755.4	4271.1	4224.3	3915.5	3900.7	3900.7
47.5°	6509.1	6495.5	6375.8	5951.9	5287.5	4701.8	4620.9	4276.7	4316.6	4378.2
50°	6903.4	6865.8	6738.2	6470.4	5913.2	5195.2	5129.1	4720.0	4869.3	5038.0
52.5°	7265.8	7286.3	7143.9	7010.5	6619.7	5745.6	5629.4	5243.1	5565.6	5844.8
55°	7638.4	7639.6	7599.7	7581.5	7360.4	6354.2	6226.5	5872.1	6384.9	6731.4
57.5°	7988.3	7990.6	8049.8	8210.5	8219.6	7056.1	6911.4	6644.7	7295.4	7648.7
60°	8300.5	8316.5	8478.3	8854.3	8975.1	7860.7	7723.9	7557.5	8236.7	8592.2
62.5°	8405.4	8463.5	8823.6	9358.0	9721.5	8847.5	8713.0	8613.9	9225.8	9556.3
65°	8227.6	8360.9	9057.2	9774.0	10489.6	10020.1	9886.8	9778.5	10253.7	10564.8
67.5°	7791.1	7963.2	9043.5	10210.4	11421.8	11430.9	11306.7	11052.5	11355.7	11475.3
70°	6641.3	6898.9	8247.0	10373.4	12491.8	13360.1	13240.5	12586.4	12455.3	11876.4
72.5°	4279.0	4625.5	6072.7	9032.1	12730.0	15175.5	15168.6	13970.9	12802.9	11097.0
75°	1561.2	1773.1	2821.5	5669.3	10685.6	15083.1	15127.6	13733.9	11687.3	8571.7
77.5°	568.6	622.2	920.8	2178.8	6571.8	12102.1	12194.4	10979.6	8318.8	4301.8
80°	298.6	328.2	471.8	845.5	2815.8	7187.2	7331.9	6525.1	3909.8	1295.7
82.5°	165.2	178.9	264.4	459.2	1268.3	3073.4	3160.0	2577.7	1375.4	549.3
85°	88.9	94.6	124.2	250.7	619.9	1065.5	1089.4	770.3	548.1	322.5
87.5°	26.2	31.9	41.0	79.8	242.7	239.3	245.0	152.7	216.5	163.0
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°
2182.2	0°	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2	2182.2
2199.3	2.5°	2192.5	2189.1	2176.5	2170.9	2164.0	2162.9	2168.6	2169.7	2170.9	2172.0
2224.4	5°	2213.0	2201.6	2190.2	2183.4	2185.7	2186.8	2198.2	2206.2	2211.9	2216.4
2271.1	7.5°	2252.9	2243.8	2224.4	2223.3	2226.7	2236.9	2251.8	2270.0	2280.2	2288.2
2331.5	10°	2312.2	2295.1	2272.3	2275.7	2282.5	2297.3	2328.1	2342.9	2360.0	2374.8
2405.6	12.5°	2372.6	2357.7	2331.5	2333.8	2345.2	2371.4	2401.0	2419.3	2430.7	2442.1
2485.4	15°	2451.2	2425.0	2396.5	2396.5	2417.0	2445.5	2459.2	2474.0	2480.8	2493.3
2570.8	17.5°	2532.1	2497.9	2460.3	2458.0	2483.1	2496.8	2504.7	2507.0	2509.3	2523.0
2654.0	20°	2613.0	2575.4	2521.8	2517.3	2523.0	2520.7	2519.6	2517.3	2520.7	2537.8
2739.5	22.5°	2692.8	2649.5	2575.4	2554.9	2538.9	2517.3	2516.1	2515.0	2517.3	2534.4
2831.8	25°	2786.2	2733.8	2634.7	2573.1	2519.6	2489.9	2493.3	2494.5	2496.8	2510.4
2927.5	27.5°	2887.6	2829.5	2689.3	2567.4	2470.6	2450.0	2444.3	2447.8	2455.7	2477.4
3023.2	30°	2989.1	2920.7	2739.5	2544.6	2409.0	2380.5	2362.3	2370.3	2395.3	2417.0
3106.4	32.5°	3081.4	3013.0	2779.4	2494.5	2330.4	2285.9	2262.0	2272.3	2297.3	2305.3
3198.7	35°	3189.6	3112.1	2796.5	2414.7	2244.9	2176.5	2144.6	2129.8	2142.4	2134.4
3307.0	37.5°	3310.4	3229.5	2794.2	2309.9	2144.6	2066.0	2021.6	1965.7	1939.5	1912.2
3466.5	40°	3489.3	3373.1	2766.8	2183.4	2020.4	1948.6	1868.9	1774.3	1715.0	1661.5
3724.1	42.5°	3733.2	3572.5	2716.7	2044.4	1880.3	1813.0	1704.8	1594.2	1500.8	1411.9
4114.9	45°	4096.7	3833.5	2654.0	1896.2	1728.7	1662.6	1545.2	1421.0	1315.0	1201.1
4669.9	47.5°	4620.9	4184.4	2594.8	1727.6	1569.2	1508.8	1402.8	1287.7	1162.3	1051.8
5472.1	50°	5341.1	4688.1	2540.1	1563.5	1411.9	1366.3	1282.0	1164.6	1038.1	949.2
6412.3	52.5°	6257.3	5373.0	2517.3	1405.1	1264.9	1247.8	1180.6	1071.2	951.5	876.3
7508.5	55°	7309.1	6192.3	2517.3	1253.5	1136.1	1141.8	1095.1	993.7	890.0	822.8
8639.0	57.5°	8382.6	7021.9	2471.7	1113.3	1026.7	1050.7	1021.0	932.2	838.7	769.2
9827.5	60°	9371.7	7717.1	2287.1	985.7	929.9	967.5	948.1	871.8	757.8	699.7
10821.2	62.5°	10131.8	8109.1	1931.5	884.3	850.1	893.4	883.2	792.0	743.0	719.1
11637.1	65°	10512.4	8045.3	1476.9	794.3	782.9	850.1	828.5	825.0	786.3	758.9
11902.7	67.5°	10278.8	7496.0	1071.2	728.2	744.1	810.2	893.4	907.1	835.3	781.7
11155.1	70°	9254.3	6502.3	797.7	665.5	695.1	811.4	1018.8	949.2	819.3	756.7
8946.6	72.5°	7040.2	4848.8	618.8	599.4	631.3	817.1	1074.6	929.9	773.8	836.4
5573.6	75°	4026.0	2662.0	496.8	518.5	551.5	763.5	1046.1	879.7	738.4	768.1
2208.5	77.5°	1535.0	1023.3	410.2	438.7	443.3	666.6	1000.5	876.3	703.1	686.0
662.1	80°	532.2	400.0	339.6	348.7	343.0	592.6	959.5	762.4	575.5	515.1
273.5	82.5°	217.7	199.4	268.9	257.5	243.9	460.4	774.9	623.3	470.6	415.9
132.2	85°	94.6	126.5	177.8	156.1	141.3	319.1	621.1	527.6	397.7	343.0
43.3	87.5°	19.4	47.9	75.2	70.7	72.9	213.1	441.0	374.9	281.5	210.8
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>
2182.2
2176.5
2218.7
2290.5
2371.4
2446.6
2497.9
2527.5
2544.6
2545.8
2528.7
2499.0
2440.9
2333.8
2159.5
1929.3
1664.9
1403.9
1187.4
1039.3
943.6
870.6
815.9
757.8
690.6
711.1
749.8
772.6
746.4
829.6
768.1
625.6
498.0
411.4
341.9
165.2
0.0

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