

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: P947576

Luminaire Tested: **GALN-SB2D-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19726 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

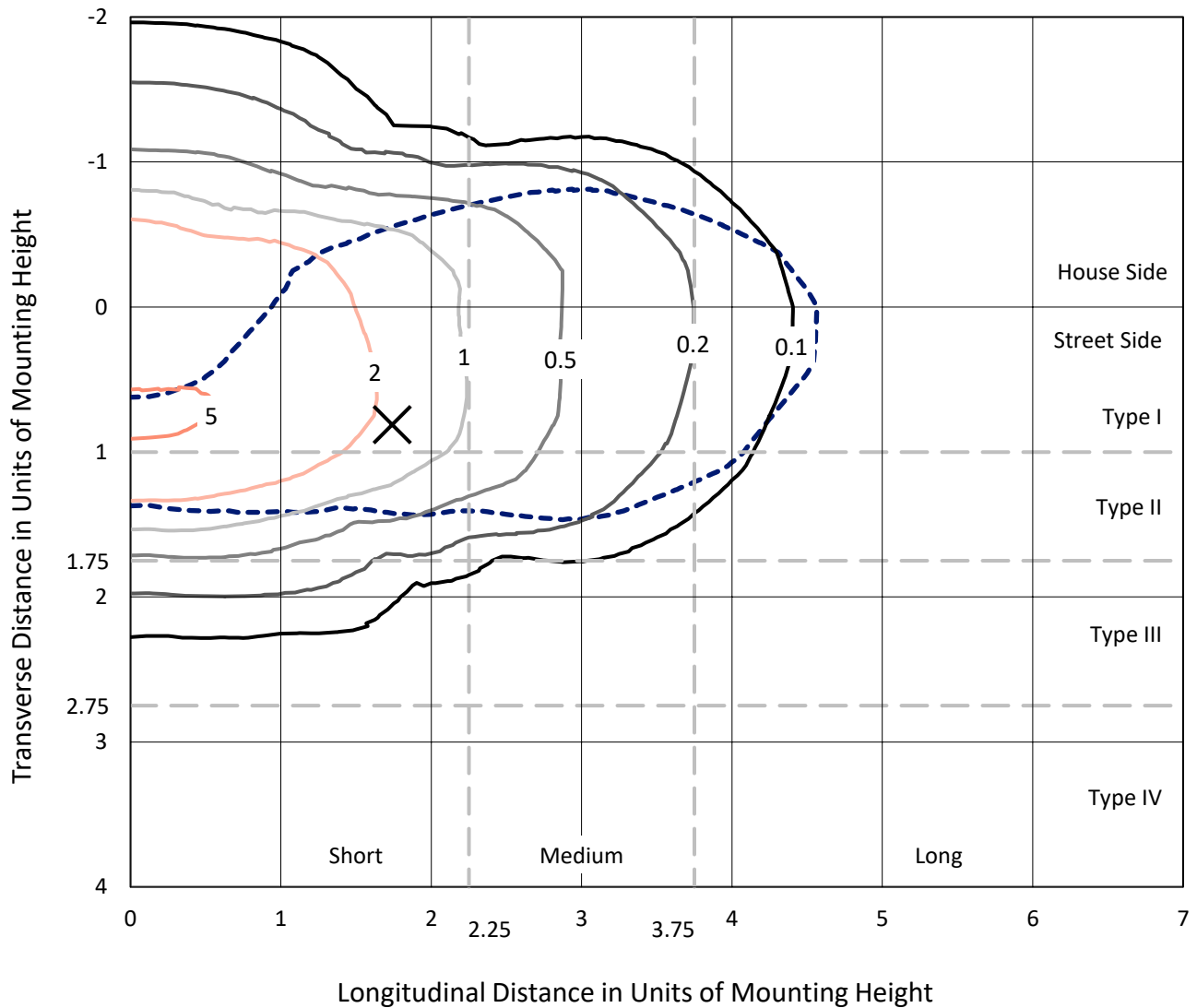
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

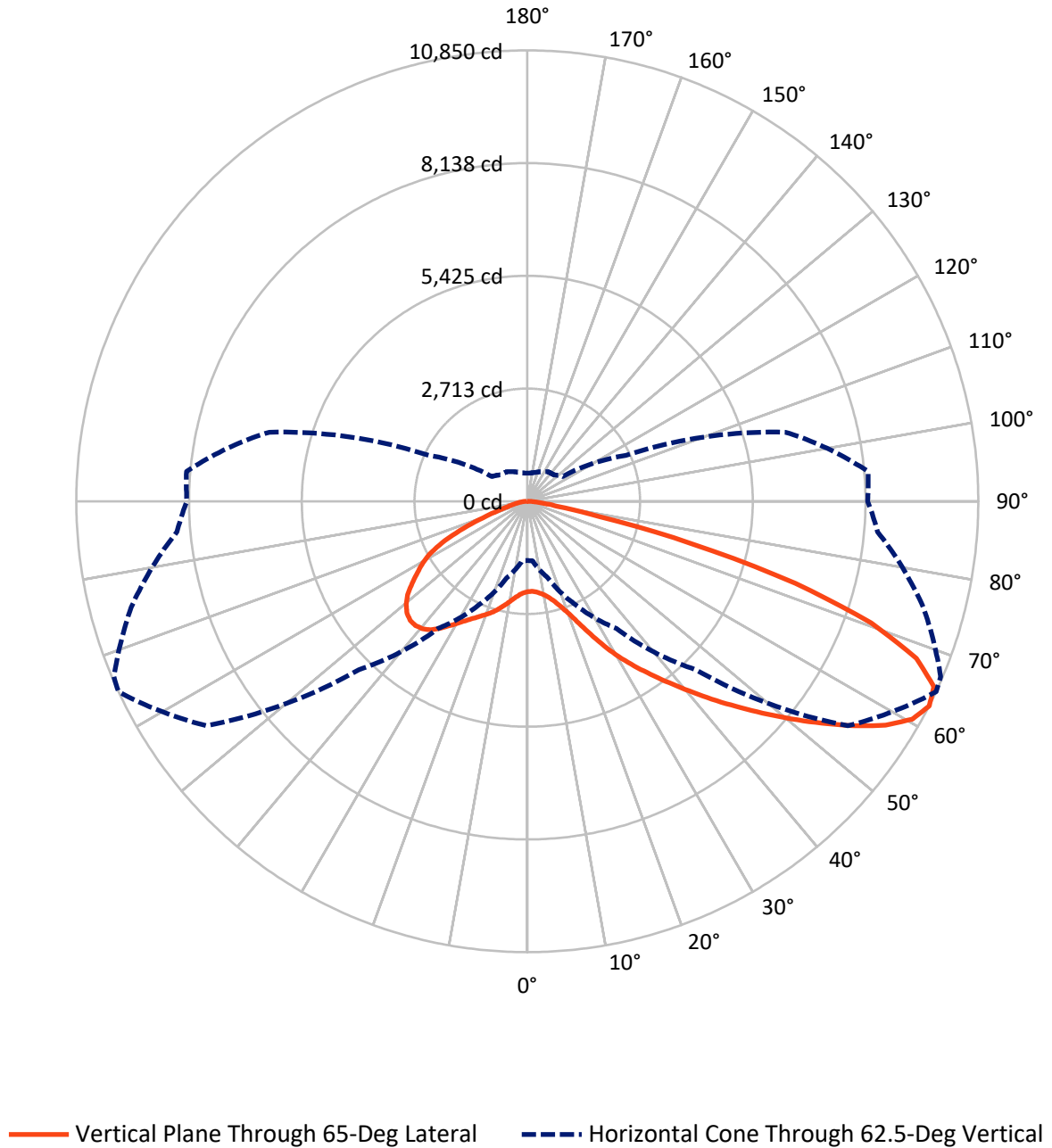
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6224.7	0.0	6224.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13501.3	0.0	13501.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	19726.0	0.0	19726.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	1.1
10°-20°	734.9	3.7
20°-30°	1490.1	7.6
30°-40°	2578.6	13.1
40°-50°	3902.2	19.8
50°-60°	4575.1	23.2
60°-70°	3835.7	19.4
70°-80°	2117.6	10.7
80°-90°	275.1	1.4
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°	19726.0	100.0
0°-180°	19726.0	100.0



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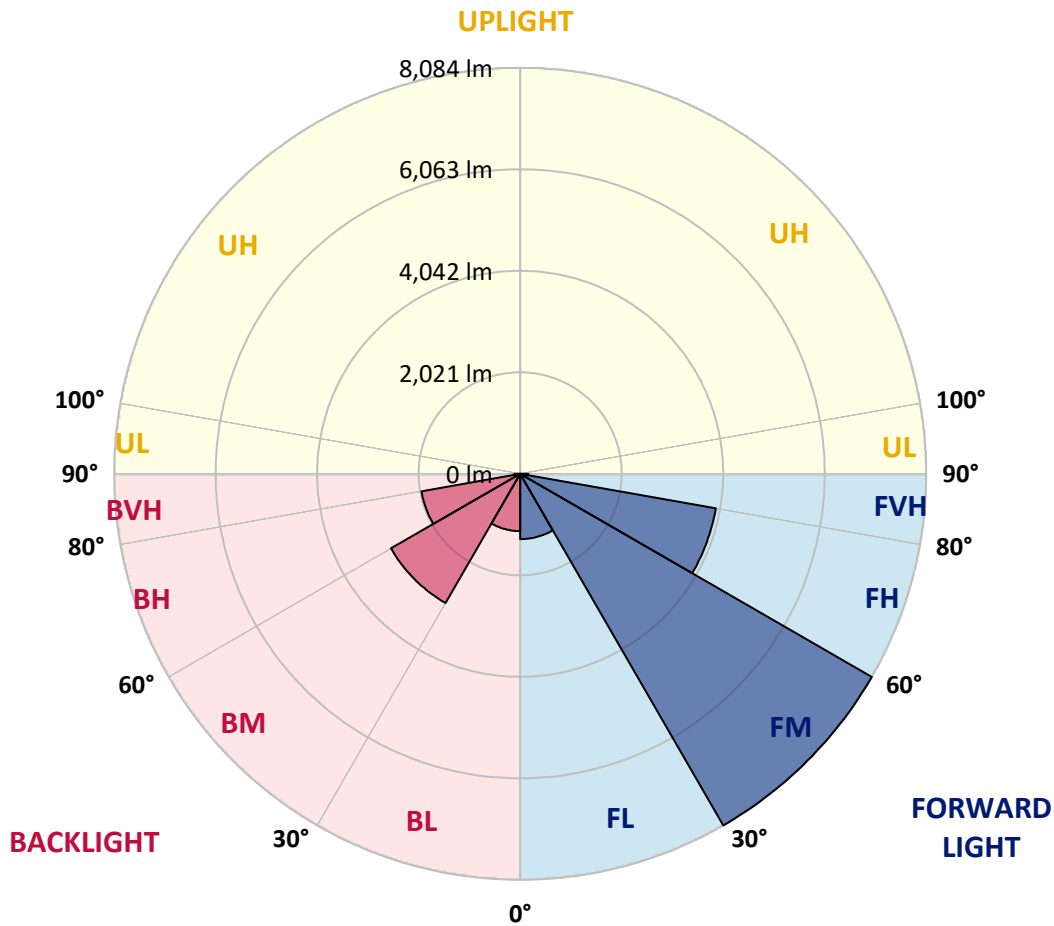
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.2	6.6			
FM (30°-60°)	8084.4	41.0			
FH (60°-80°)	3956.5	20.1			G2/5000
FVH (80°-90°)	160.3	0.8			G2/225
BL (0°-30°)	1141.5	5.8	B3/2500		
BM (30°-60°)	2971.6	15.1	B3/5000		
BH (60°-80°)	1996.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	114.8	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7
2.5°	2159.4	2153.3	2158.4	2158.4	2160.4	2159.4	2166.6	2168.6	2171.7	2177.8
5°	2137.9	2136.9	2146.1	2154.3	2162.5	2169.6	2178.8	2192.1	2194.2	2201.4
7.5°	2130.7	2124.6	2138.9	2149.2	2168.6	2186.0	2210.6	2233.1	2242.3	2245.4
10°	2186.0	2175.8	2189.1	2195.2	2211.6	2229.0	2257.6	2293.5	2303.7	2316.0
12.5°	2280.2	2268.9	2288.3	2297.6	2312.9	2328.3	2347.7	2382.5	2387.6	2410.1
15°	2409.1	2395.8	2408.1	2419.3	2444.9	2459.3	2478.7	2512.5	2512.5	2529.9
17.5°	2584.1	2566.7	2575.9	2580.0	2596.4	2617.9	2650.6	2680.3	2695.7	2689.5
20°	2845.1	2823.6	2823.6	2803.1	2797.0	2814.4	2857.4	2898.3	2914.7	2882.9
22.5°	3237.0	3206.3	3188.9	3119.3	3091.7	3093.8	3136.7	3186.9	3200.2	3143.9
25°	3735.4	3687.3	3663.8	3561.5	3499.0	3444.8	3478.6	3543.0	3561.5	3491.9
27.5°	4233.8	4236.9	4214.4	4091.6	3988.2	3889.0	3871.6	3939.1	3958.5	3879.7
30°	4932.8	4860.2	4817.2	4669.8	4522.4	4383.3	4311.6	4339.3	4344.4	4250.2
32.5°	5535.6	5517.2	5425.1	5296.1	5106.8	4888.8	4769.1	4725.1	4716.9	4582.8
35°	6222.3	6212.1	6114.9	5961.4	5756.7	5453.7	5237.8	5111.9	5101.7	4913.4
37.5°	6920.3	6920.3	6825.1	6657.3	6445.4	6066.8	5738.3	5538.7	5505.9	5260.3
40°	7477.0	7443.3	7460.6	7390.0	7147.5	6745.3	6294.0	6004.3	5960.3	5665.6
42.5°	7793.3	7782.0	7886.4	7965.2	7865.9	7544.6	6906.0	6508.9	6447.5	6111.8
45°	7863.9	7851.6	8037.9	8326.5	8465.6	8333.6	7571.2	7040.0	6965.3	6578.5
47.5°	7701.1	7676.6	7949.8	8405.3	8851.5	9083.8	8291.7	7616.2	7507.7	7032.9
50°	7212.0	7188.4	7601.9	8206.7	8981.4	9593.4	9073.5	8227.2	8061.4	7520.0
52.5°	6148.6	6159.9	6807.7	7638.7	8810.5	9910.7	9746.9	8870.9	8671.3	8018.4
55°	4789.6	4814.1	5610.3	6525.3	8126.9	9862.6	10206.5	9534.1	9335.5	8487.1
57.5°	3429.4	3537.9	4284.0	5189.7	6813.9	9100.1	10306.7	10164.5	9972.1	8998.8
60°	2222.8	2242.3	3009.8	3922.7	5188.7	7745.2	10103.1	10642.4	10492.0	9520.8
62.5°	1424.6	1437.9	1905.6	2743.8	3734.4	5730.1	9417.4	10850.2	10804.1	9865.7
65°	1046.9	1036.7	1280.3	1813.5	2515.5	3533.8	8086.0	10749.9	10841.0	10081.6
67.5°	874.0	859.7	979.4	1255.7	1853.4	2006.9	5982.8	10098.0	10431.6	10057.0
70°	796.2	783.9	856.6	932.3	1446.1	1343.7	3016.0	8778.8	9292.5	9777.6
72.5°	674.4	652.9	752.2	827.9	1124.7	1030.6	1246.5	6743.2	7369.6	8882.2
75°	523.0	508.6	593.6	728.7	845.3	804.4	788.0	4094.7	4778.3	6869.1
77.5°	414.5	395.0	472.8	568.0	760.4	606.9	574.1	1763.3	2440.8	4385.3
80°	312.1	294.7	359.2	449.3	584.4	457.5	371.5	719.5	920.0	2221.8
82.5°	222.1	206.7	250.7	329.5	393.0	410.4	228.2	403.2	453.4	856.6
85°	142.3	133.0	167.8	206.7	249.7	264.0	139.2	210.8	231.3	353.1
87.5°	77.8	63.5	90.1	96.2	115.6	105.4	66.5	76.8	82.9	127.9
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°
2173.7	0°	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7	2173.7
2177.8	2.5°	2181.9	2185.0	2195.2	2198.3	2205.4	2214.7	2220.8	2226.9	2226.9	2233.1
2210.6	5°	2211.6	2218.7	2240.2	2251.5	2269.9	2288.3	2299.6	2312.9	2321.1	2325.2
2262.8	7.5°	2268.9	2280.2	2310.9	2330.3	2362.0	2387.6	2405.0	2423.4	2427.5	2438.8
2335.4	10°	2346.7	2360.0	2394.8	2431.6	2469.5	2501.2	2517.6	2530.9	2536.0	2538.1
2428.5	12.5°	2435.7	2455.2	2500.2	2545.2	2585.1	2612.8	2616.9	2613.8	2599.5	2587.2
2543.2	15°	2545.2	2562.6	2612.8	2661.9	2700.8	2705.9	2680.3	2663.9	2646.5	2643.5
2671.1	17.5°	2676.2	2685.4	2731.5	2779.6	2782.6	2765.2	2727.4	2712.0	2695.7	2684.4
2837.9	20°	2828.7	2825.6	2858.4	2878.8	2857.4	2804.1	2746.8	2721.2	2704.9	2691.6
3042.6	22.5°	3010.9	2987.3	2983.2	2978.1	2920.8	2809.3	2731.5	2698.7	2673.1	2654.7
3328.1	25°	3275.9	3185.9	3123.4	3088.6	2959.7	2781.6	2682.4	2609.7	2561.6	2529.9
3677.1	27.5°	3607.5	3456.1	3298.4	3213.5	2959.7	2725.3	2563.6	2445.9	2367.1	2334.4
4014.8	30°	3923.7	3765.1	3532.8	3363.9	2952.5	2633.2	2372.3	2208.5	2116.4	2083.7
4303.4	32.5°	4193.9	4021.0	3781.5	3528.7	2935.1	2483.8	2134.8	1953.7	1864.7	1825.8
4589.0	35°	4444.7	4260.4	4031.2	3709.9	2889.1	2264.8	1873.9	1735.7	1636.4	1574.0
4879.6	37.5°	4701.5	4482.5	4267.6	3873.6	2806.2	2009.0	1673.3	1555.6	1438.9	1355.0
5188.7	40°	4980.9	4718.9	4520.4	3970.8	2670.1	1765.4	1517.7	1410.3	1286.4	1197.4
5544.8	42.5°	5307.4	5002.4	4801.8	4021.0	2483.8	1592.4	1416.4	1311.0	1194.3	1121.7
5926.6	45°	5648.2	5314.6	5058.7	4019.9	2276.1	1511.6	1383.6	1279.3	1150.3	1074.6
6318.5	47.5°	6005.4	5641.0	5280.8	3954.5	2095.9	1522.8	1365.2	1210.7	1068.4	994.8
6714.6	50°	6363.6	5998.2	5495.7	3831.6	2019.2	1498.3	1296.7	1114.5	946.7	880.1
7086.1	52.5°	6718.7	6377.9	5680.9	3656.6	1941.4	1407.2	1208.6	989.6	896.5	850.5
7469.9	55°	7075.8	6753.5	5882.6	3401.8	1747.0	1300.8	1061.3	942.6	856.6	814.6
7845.4	57.5°	7434.0	7187.4	6073.9	3147.0	1502.4	1169.8	980.4	885.2	816.7	780.9
8159.6	60°	7806.6	7683.8	6271.4	2912.6	1260.8	1001.9	921.1	839.2	769.6	729.7
8461.5	62.5°	8190.3	8230.3	6426.0	2610.7	1038.8	899.6	867.9	783.9	716.4	678.5
8711.3	65°	8577.2	8757.3	6527.3	2192.1	842.3	802.4	810.5	723.5	655.0	622.2
8894.4	67.5°	8868.9	9137.0	6498.6	1658.9	690.8	710.2	738.9	660.1	595.6	570.0
8864.8	70°	8901.6	9092.0	6216.2	1136.0	578.2	620.2	659.1	597.7	531.1	512.7
8447.2	72.5°	8465.6	8477.9	5429.2	742.0	489.2	544.5	575.2	534.2	469.7	451.3
7390.0	75°	7322.5	7011.4	3986.2	489.2	409.4	467.7	496.4	467.7	405.3	409.4
5529.5	77.5°	5547.9	4965.6	2420.4	348.0	341.8	393.0	431.9	411.4	358.2	402.2
2780.6	80°	2858.4	2686.4	1079.7	259.9	270.2	314.2	355.1	328.5	283.5	270.2
621.2	82.5°	655.0	761.4	425.7	186.3	195.5	226.2	271.2	246.6	203.7	171.9
258.9	85°	229.2	250.7	188.3	116.7	114.6	141.2	184.2	164.8	138.2	110.5
109.5	87.5°	72.7	95.2	70.6	47.1	49.1	63.5	84.9	77.8	64.5	42.0
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

180°
2173.7
2233.1
2327.2
2434.7
2532.9
2587.2
2643.5
2685.4
2692.6
2660.9
2542.1
2350.8
2103.1
1845.2
1594.5
1377.5
1214.8
1136.0
1086.9
1005.0
884.2
850.5
810.5
774.7
726.6
677.5
621.2
571.1
513.8
450.3
395.0
354.1
246.6
169.9
116.7
44.0
0.0

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