

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: P949002

Luminaire Tested: **GALN-SB3D-850-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-850-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

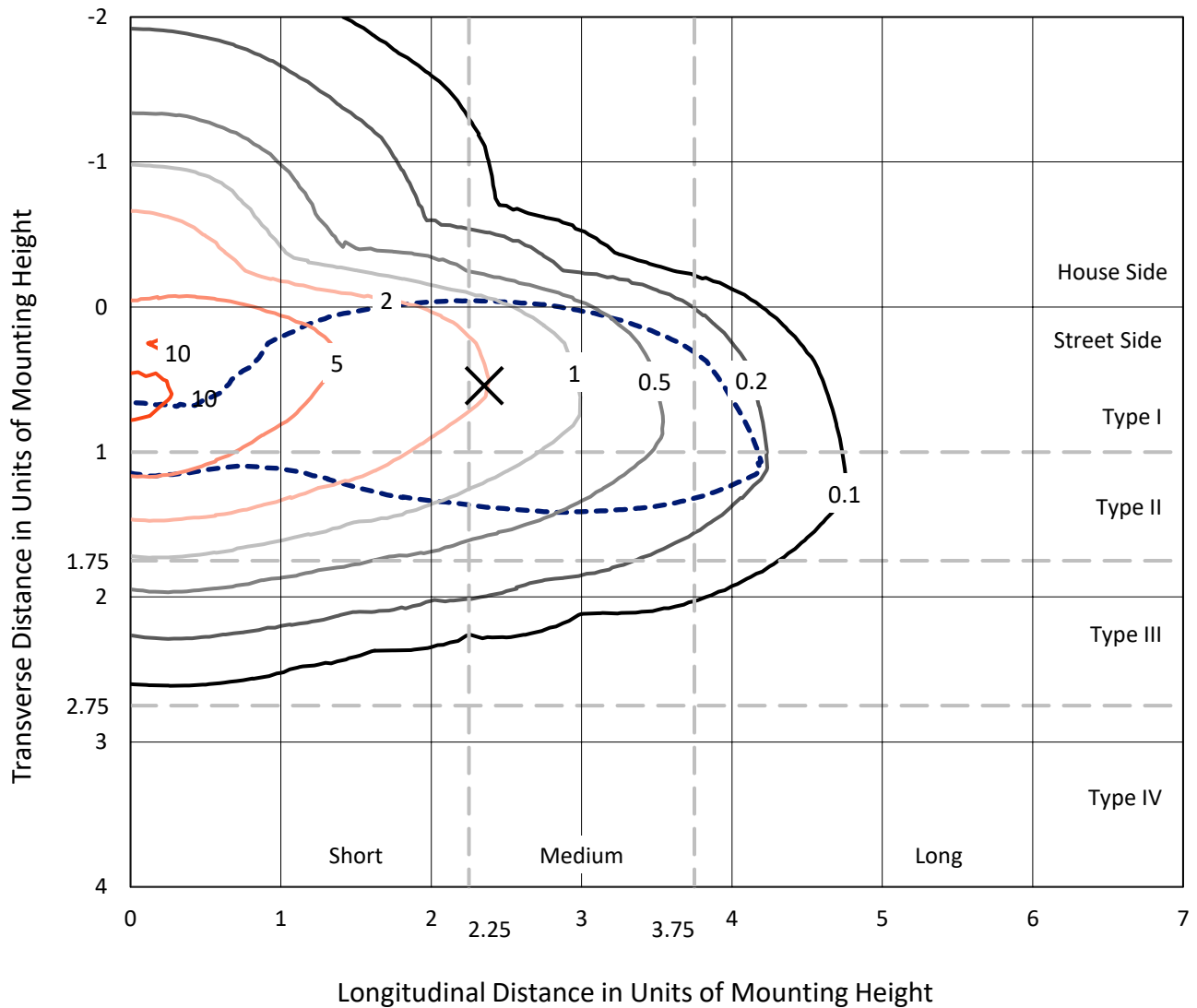
Lumens per Lamp: N/A  
Luminaire Lumens: 29746 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

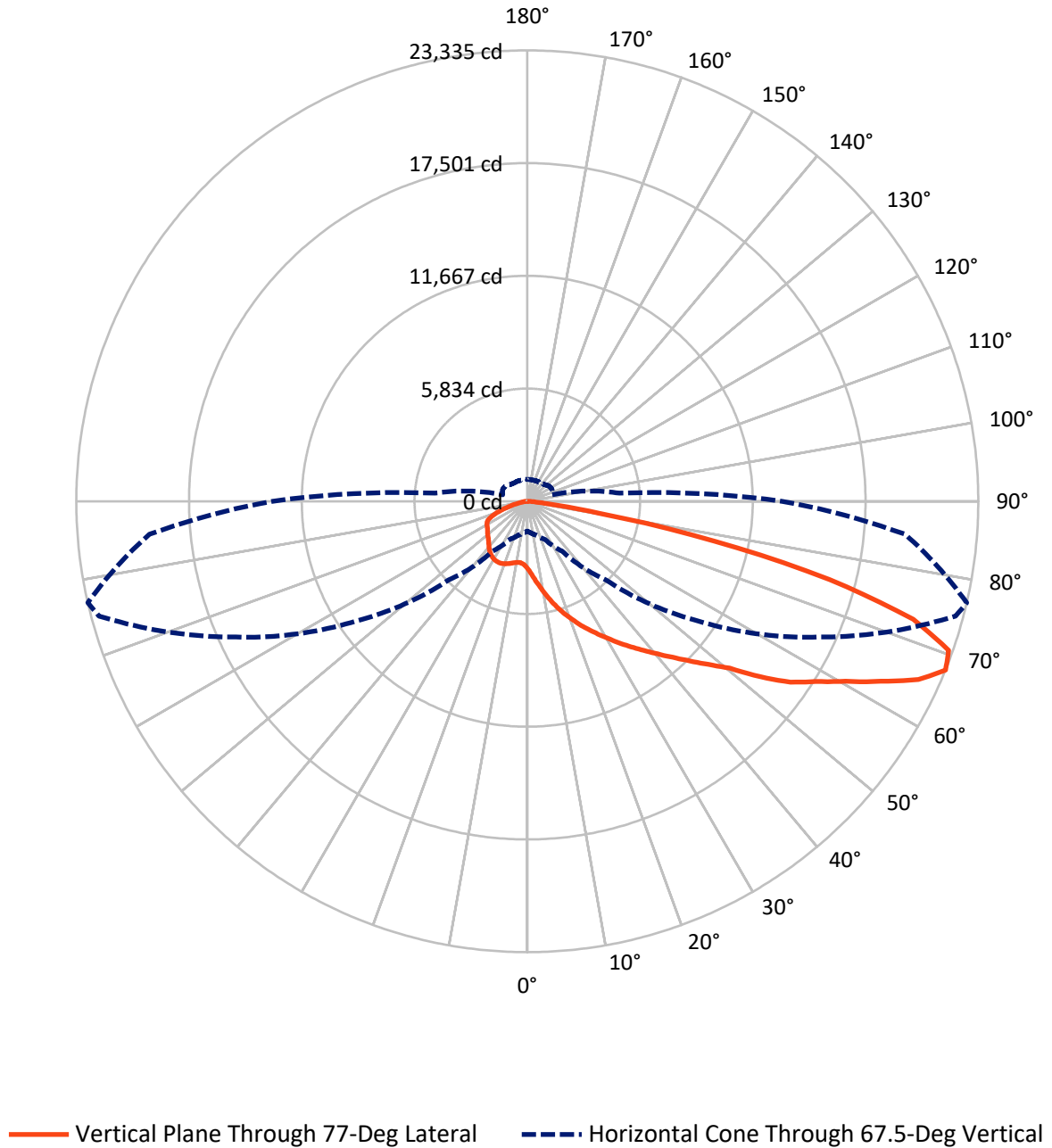
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5626.7	0.0	5626.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	24119.3	0.0	24119.3
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	29746.0	0.0	29746.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.1	1.3
10°-20°	1344.0	4.5
20°-30°	2537.5	8.5
30°-40°	4088.0	13.7
40°-50°	5591.6	18.8
50°-60°	6307.3	21.2
60°-70°	5887.1	19.8
70°-80°	3227.1	10.8
80°-90°	389.3	1.3
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°	29746.0	100.0
0°-180°	29746.0	100.0

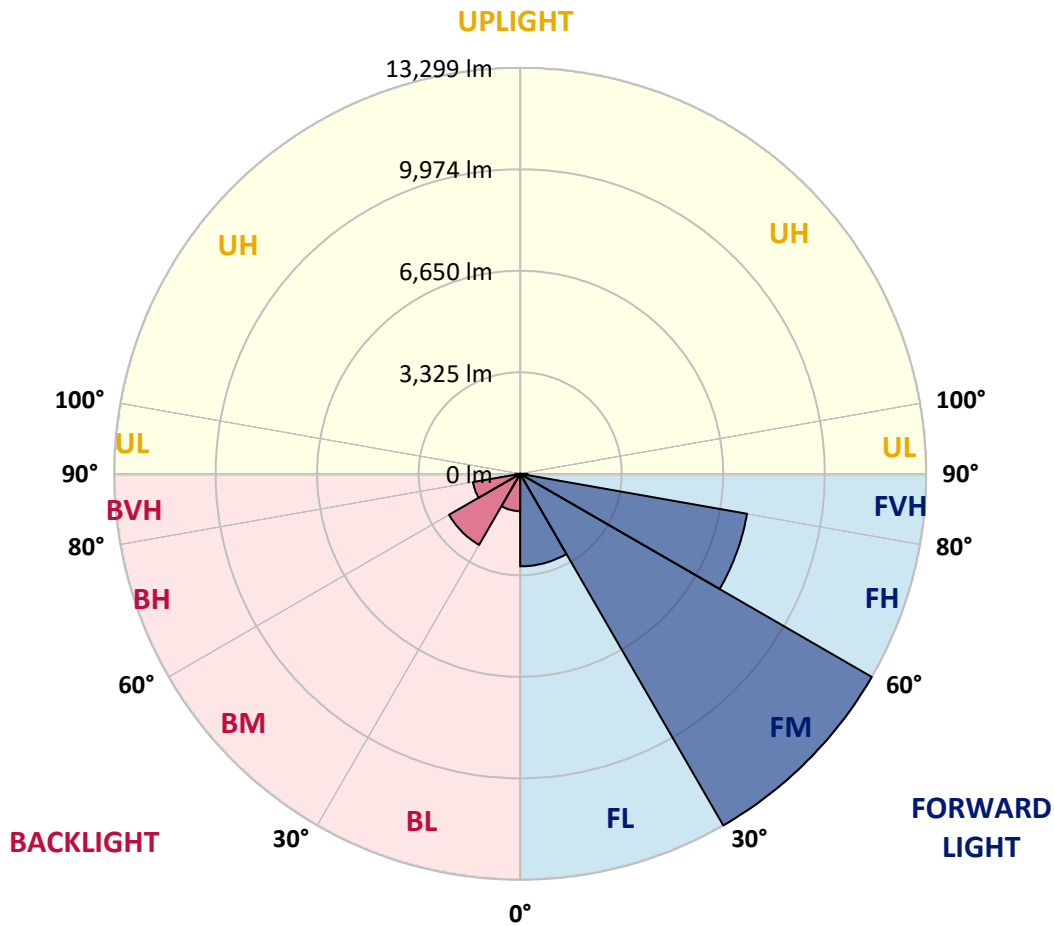


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3032.2	10.2			
FM (30°-60°)	13299.1	44.7			
FH (60°-80°)	7544.5	25.4			G4/12000
FVH (80°-90°)	243.4	0.8			G3/500
BL (0°-30°)	1223.4	4.1	B3/2500		
BM (30°-60°)	2687.8	9.0	B3/5000		
BH (60°-80°)	1569.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	145.8	0.5			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1
2.5°	4370.0	4400.7	4362.3	4362.3	4233.3	4165.7	4036.8	3938.5	3761.9	3731.2
5°	5165.3	5203.7	5150.0	5126.9	4974.9	4835.2	4618.7	4405.3	4090.5	4058.3
7.5°	5781.1	5830.2	5782.6	5758.0	5622.9	5466.3	5212.9	4915.0	4471.3	4408.3
10°	6283.2	6290.8	6275.5	6284.7	6178.7	6049.8	5790.3	5443.3	4888.9	4803.0
12.5°	6567.2	6602.5	6633.2	6688.5	6670.1	6590.2	6356.9	5942.3	5331.2	5220.6
15°	6700.8	6762.2	6831.3	6958.8	7061.6	7081.6	6903.5	6478.2	5781.1	5647.5
17.5°	6748.4	6806.8	6915.8	7100.0	7321.1	7470.1	7390.2	6998.7	6226.3	6072.8
20°	6989.5	7006.4	7072.4	7247.4	7487.0	7734.2	7794.1	7499.2	6667.0	6493.5
22.5°	7505.4	7471.6	7490.0	7569.9	7741.9	7981.4	8118.0	7941.5	7120.0	6920.4
25°	8357.6	8259.3	8161.0	8068.9	8156.4	8291.6	8446.6	8383.7	7594.4	7341.1
27.5°	9433.9	9314.2	9097.7	8795.2	8689.2	8736.8	8805.9	8793.7	8033.6	7777.2
30°	10493.4	10353.7	10095.7	9658.1	9378.7	9252.8	9200.6	9165.2	8511.1	8237.8
32.5°	11339.5	11228.9	10975.6	10485.7	10080.4	9865.4	9691.9	9566.0	9010.2	8736.8
35°	12079.6	11976.7	11686.5	11152.1	10711.5	10482.7	10255.4	9986.7	9529.1	9252.8
37.5°	12755.2	12652.3	12254.6	11698.8	11255.0	11096.9	10894.2	10438.1	10049.7	9788.6
40°	13182.0	13159.0	12787.4	12157.9	11697.2	11618.9	11551.4	10961.7	10627.0	10384.4
42.5°	13291.1	13341.7	13046.9	12529.5	12090.3	12027.4	12185.5	11554.4	11275.0	11043.1
45°	13028.5	13174.4	12980.9	12629.3	12369.8	12336.0	12747.5	12202.4	11992.0	11780.1
47.5°	12363.6	12610.8	12531.0	12481.9	12445.0	12590.9	13241.9	12890.3	12804.3	12620.1
50°	11021.6	11489.9	11629.7	11939.8	12296.1	12789.0	13691.8	13641.1	13753.2	13567.4
52.5°	8701.5	9346.4	10157.2	10934.1	11838.5	12722.9	14186.2	14719.0	15192.0	15090.6
55°	7182.9	7473.1	8096.5	9521.5	10951.0	12445.0	14408.9	15589.7	16620.0	16529.4
57.5°	6016.0	6275.5	6659.3	7849.3	9609.0	11813.9	14547.1	16120.9	17598.1	17588.8
60°	4764.6	5039.4	5432.5	6275.5	8041.3	10723.7	14516.4	16725.9	18846.4	18923.2
62.5°	3351.9	3654.4	4090.5	4876.7	6439.8	9311.1	13889.9	17163.5	20315.8	20524.7
65°	2203.4	2403.0	2731.6	3410.3	4798.4	7494.6	12693.8	17220.3	21888.2	22241.3
67.5°	1544.7	1621.5	1814.9	2183.4	3163.1	5747.3	10788.2	16632.2	22936.9	23334.6
70°	1205.3	1243.7	1342.0	1489.4	1986.9	3864.8	8267.0	15102.9	22712.7	23127.3
72.5°	1041.1	1077.9	1114.8	1133.2	1332.8	2386.1	5599.9	12627.7	20601.4	20882.4
75°	944.3	953.5	984.2	978.1	1016.5	1547.8	3232.2	9200.6	16254.5	16157.8
77.5°	793.8	806.1	856.8	849.1	902.9	1057.9	1678.3	5937.7	10538.0	9880.8
80°	672.5	678.7	734.0	724.7	784.6	766.2	856.8	3026.4	4469.8	3786.5
82.5°	233.4	288.7	560.4	577.3	598.8	463.7	494.4	1234.5	1365.0	1045.7
85°	113.6	121.3	285.6	405.4	403.8	233.4	241.1	440.7	429.9	337.8
87.5°	18.4	23.0	33.8	158.2	125.9	61.4	82.9	86.0	89.1	76.8
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°
3490.1	0°	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1	3490.1
3614.5	2.5°	3528.5	3451.7	3290.5	3141.6	3024.9	2912.8	2849.8	2796.1	2765.4	2759.2
3783.4	5°	3623.7	3465.6	3172.3	2925.1	2763.9	2644.1	2581.1	2541.2	2521.2	2509.0
4010.7	7.5°	3760.4	3528.5	3110.9	2829.9	2661.0	2575.0	2542.7	2536.6	2535.1	2536.6
4285.5	10°	3949.2	3631.4	3104.7	2806.8	2665.6	2618.0	2616.4	2618.0	2624.1	2625.7
4584.9	12.5°	4153.5	3737.3	3129.3	2826.8	2723.9	2697.8	2693.2	2691.7	2696.3	2699.4
4887.4	15°	4376.1	3877.1	3170.8	2869.8	2788.4	2760.8	2756.2	2747.0	2745.4	2743.9
5205.3	17.5°	4604.9	4015.3	3216.8	2915.9	2829.9	2791.5	2774.6	2753.1	2736.2	2731.6
5533.8	20°	4836.7	4151.9	3249.1	2938.9	2832.9	2779.2	2745.4	2708.6	2679.4	2662.5
5865.5	22.5°	5084.0	4294.7	3269.0	2932.8	2805.3	2731.6	2670.2	2627.2	2582.7	2553.5
6200.2	25°	5325.0	4419.1	3267.5	2900.5	2751.6	2657.9	2579.6	2524.3	2462.9	2432.2
6545.7	27.5°	5556.9	4531.2	3229.1	2843.7	2674.8	2570.4	2476.7	2410.7	2350.8	2321.6
6894.3	30°	5796.4	4624.8	3169.2	2760.8	2584.2	2469.0	2366.2	2309.4	2255.6	2228.0
7262.8	32.5°	6034.4	4710.8	3084.8	2657.9	2479.8	2369.2	2267.9	2215.7	2183.4	2183.4
7658.9	35°	6286.2	4770.7	2972.7	2538.1	2369.2	2263.3	2183.4	2152.7	2149.7	2131.2
8078.1	37.5°	6551.9	4809.1	2836.0	2415.3	2260.2	2160.4	2135.8	2099.0	2068.3	2028.4
8538.8	40°	6831.3	4847.5	2671.7	2287.9	2145.1	2089.8	2079.0	2029.9	1942.4	1844.1
9060.8	42.5°	7170.7	4873.6	2501.3	2160.4	2023.8	2005.3	2020.7	1936.2	1796.5	1722.8
9690.4	45°	7563.7	4916.6	2344.7	2034.5	1899.4	1899.4	1963.9	1853.3	1738.2	1692.1
10409.0	47.5°	8073.5	5016.4	2198.8	1896.3	1784.2	1814.9	1838.0	1753.5	1689.0	1632.2
11284.2	50°	8810.5	5255.9	2048.3	1756.6	1696.7	1758.1	1725.9	1676.7	1601.5	1555.4
12675.3	52.5°	9725.7	5397.2	1914.7	1630.7	1621.5	1682.9	1636.8	1590.7	1533.9	1472.5
13730.2	55°	10349.1	5423.3	1802.6	1538.5	1570.8	1564.6	1547.8	1506.3	1475.6	1394.2
14771.2	57.5°	11046.2	5475.5	1710.5	1483.3	1538.5	1471.0	1464.8	1429.5	1389.6	1334.3
16041.1	60°	11880.0	5556.9	1630.7	1461.8	1510.9	1409.6	1378.9	1365.0	1325.1	1297.5
17568.9	62.5°	12789.0	5630.6	1549.3	1464.8	1478.7	1349.7	1303.6	1299.0	1274.4	1265.2
19003.0	65°	13409.3	5429.4	1448.0	1461.8	1428.0	1288.3	1229.9	1228.4	1208.4	1205.3
19624.9	67.5°	13192.8	4792.2	1311.3	1418.8	1375.8	1226.8	1162.4	1156.2	1130.1	1131.6
18975.4	70°	12108.7	3883.2	1122.4	1312.8	1311.3	1171.6	1091.7	1071.8	1036.4	1042.6
16498.7	72.5°	10075.8	2877.5	869.1	1136.2	1208.4	1120.9	1010.3	978.1	933.6	939.7
12179.4	75°	7276.6	1956.2	632.6	864.5	1051.8	1061.0	930.5	875.2	821.5	830.7
6779.1	77.5°	3723.5	1108.6	465.2	595.8	826.1	964.3	858.3	784.6	772.3	858.3
1954.7	80°	1214.6	555.8	322.4	417.6	542.0	789.2	752.4	667.9	664.9	684.8
410.0	82.5°	362.4	234.9	207.3	274.8	299.4	605.0	649.5	505.2	434.5	457.6
136.7	85°	124.4	113.6	118.2	136.7	142.8	354.7	454.5	334.7	316.3	348.6
30.7	87.5°	29.2	39.9	33.8	30.7	30.7	86.0	176.6	139.7	193.5	129.0
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

<u>180°</u>
3490.1
2759.2
2507.4
2541.2
2627.2
2700.9
2742.4
2736.2
2668.7
2555.0
2432.2
2320.1
2226.4
2185.0
2126.6
2022.2
1830.3
1724.3
1699.8
1630.7
1550.8
1460.2
1395.7
1315.9
1305.2
1265.2
1203.8
1131.6
1048.7
938.2
833.8
846.0
588.1
472.9
343.9
124.4
0.0

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