

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: P949821

Luminaire Tested: **GALN-SB4B-950-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949821  
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-SB4B-950-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

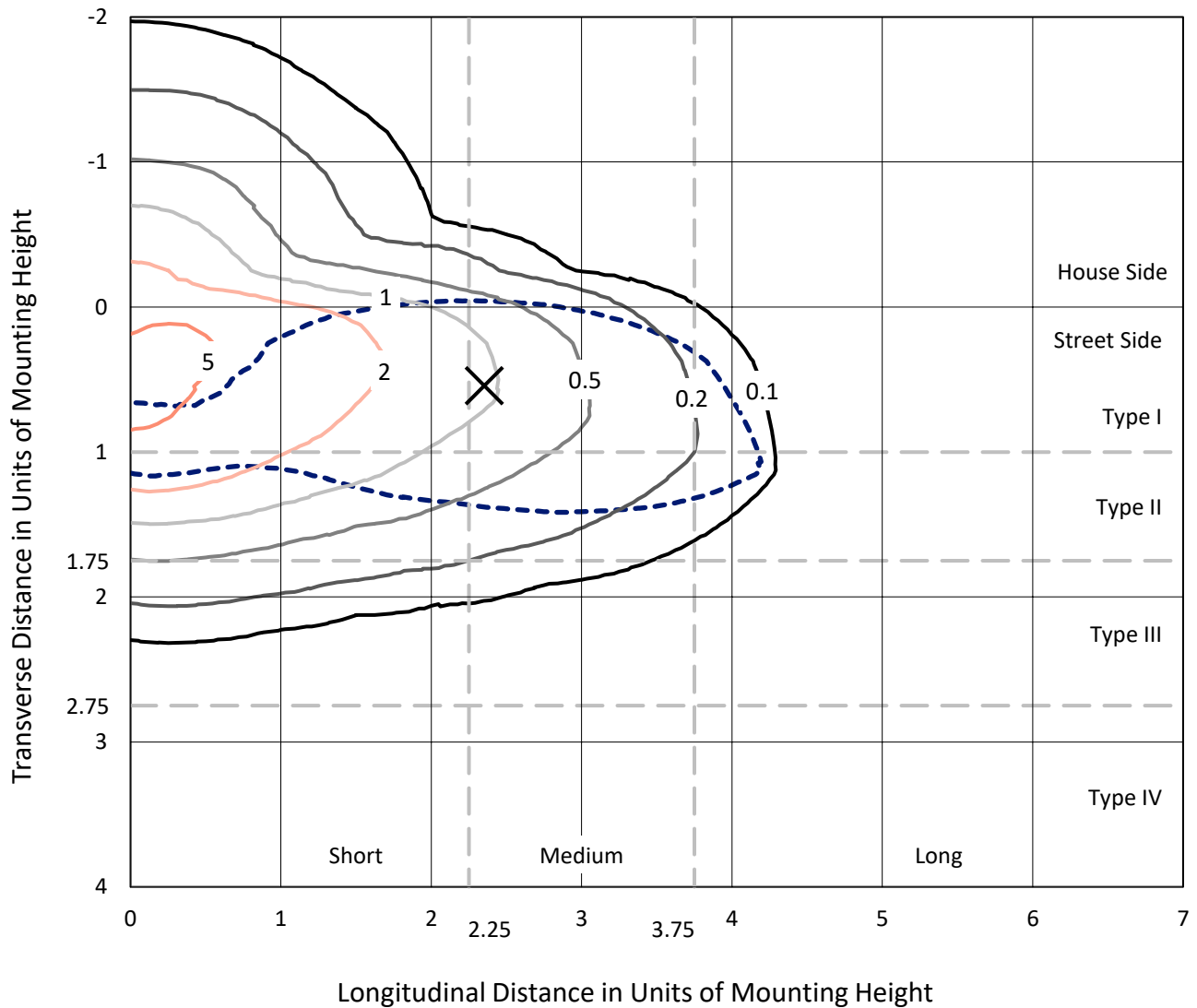
Lumens per Lamp: N/A  
Luminaire Lumens: 15991 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

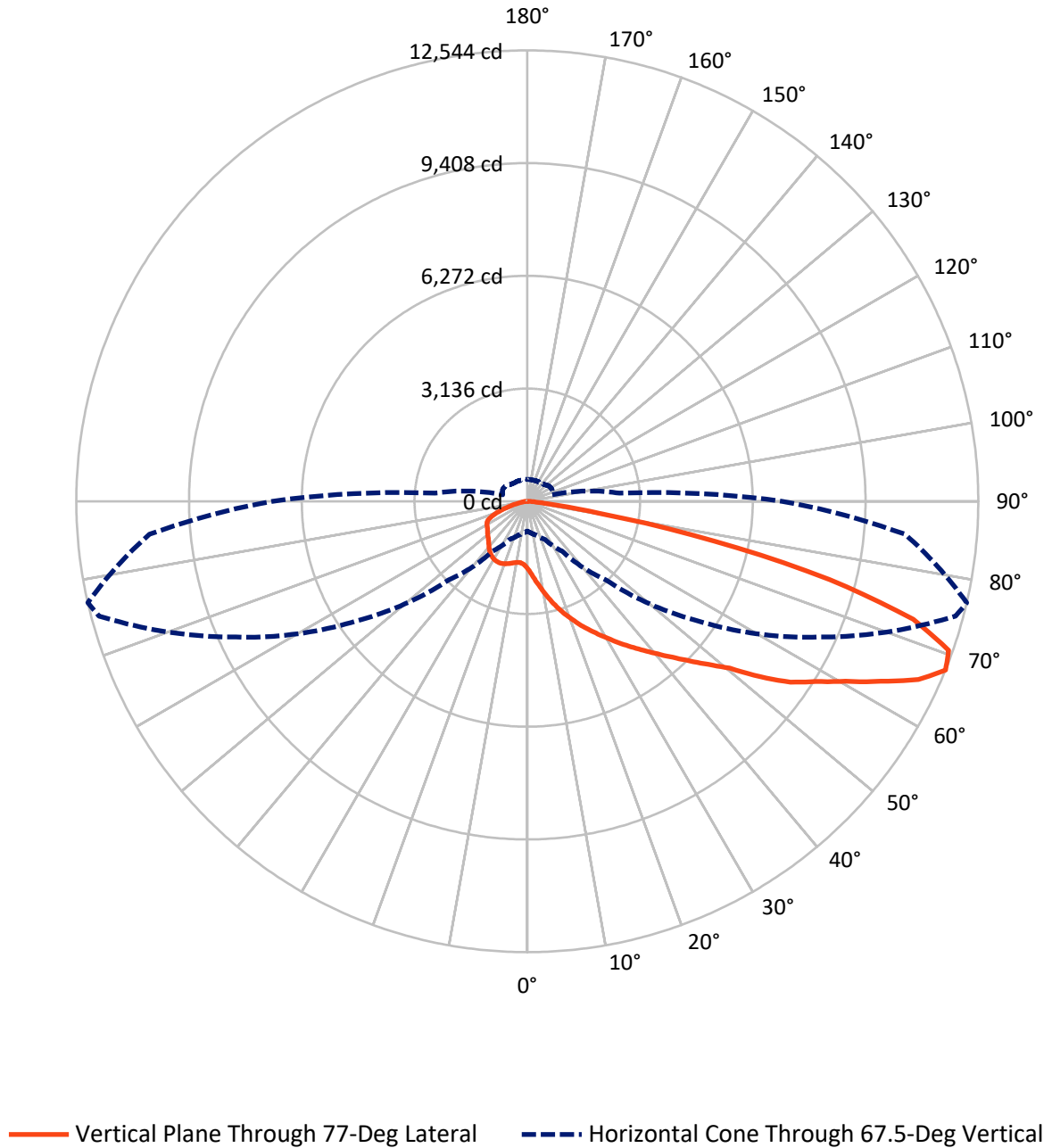
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	3024.9	0.0	3024.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	12966.1	0.0	12966.1
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	15991.0	0.0	15991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	1.3
10°-20°	722.5	4.5
20°-30°	1364.1	8.5
30°-40°	2197.6	13.7
40°-50°	3005.9	18.8
50°-60°	3390.7	21.2
60°-70°	3164.8	19.8
70°-80°	1734.9	10.8
80°-90°	209.3	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°	15991.0	100.0
0°-180°	15991.0	100.0

**Coefficient of Utilization**



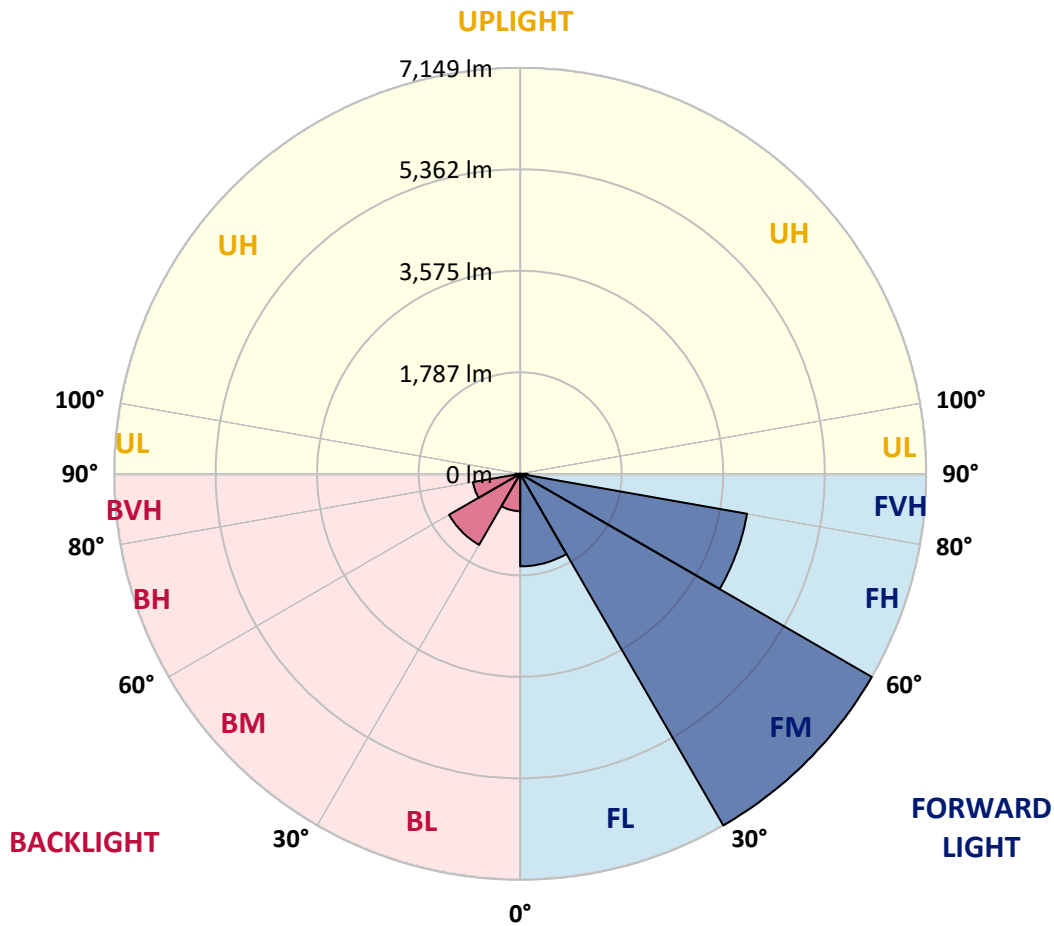
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.1	10.2			
FM (30°-60°)	7149.4	44.7			
FH (60°-80°)	4055.8	25.4			G2/5000
FVH (80°-90°)	130.9	0.8			G2/225
BL (0°-30°)	657.7	4.1	B2/1000		
BM (30°-60°)	1444.9	9.0	B2/2500		
BH (60°-80°)	843.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	78.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2
2.5°	2349.2	2365.7	2345.1	2345.1	2275.8	2239.4	2170.1	2117.3	2022.3	2005.8
5°	2776.8	2797.4	2768.5	2756.2	2674.4	2599.3	2482.9	2368.2	2199.0	2181.7
7.5°	3107.8	3134.2	3108.6	3095.4	3022.8	2938.6	2802.4	2642.3	2403.7	2369.9
10°	3377.7	3381.9	3373.6	3378.6	3321.6	3252.3	3112.8	2926.2	2628.2	2582.0
12.5°	3530.4	3549.4	3565.9	3595.6	3585.7	3542.8	3417.4	3194.5	2866.0	2806.5
15°	3602.3	3635.3	3672.4	3740.9	3796.2	3807.0	3711.2	3482.6	3107.8	3036.0
17.5°	3627.8	3659.2	3717.8	3816.9	3935.7	4015.8	3972.9	3762.4	3347.2	3264.6
20°	3757.4	3766.5	3802.0	3896.1	4024.9	4157.8	4190.0	4031.5	3584.1	3490.8
22.5°	4034.8	4016.6	4026.5	4069.5	4161.9	4290.7	4364.1	4269.2	3827.6	3720.3
25°	4492.9	4440.1	4387.3	4337.7	4384.8	4457.4	4540.8	4506.9	4082.7	3946.5
27.5°	5071.5	5007.2	4890.8	4728.2	4671.2	4696.8	4733.9	4727.3	4318.7	4180.9
30°	5641.1	5566.0	5427.3	5192.1	5041.8	4974.1	4946.1	4927.1	4575.5	4428.5
32.5°	6095.9	6036.5	5900.3	5637.0	5419.1	5303.5	5210.2	5142.5	4843.7	4696.8
35°	6493.8	6438.5	6282.5	5995.2	5758.3	5635.3	5513.2	5368.7	5122.7	4974.1
37.5°	6857.0	6801.7	6587.9	6289.1	6050.5	5965.5	5856.5	5611.4	5402.6	5262.2
40°	7086.5	7074.1	6874.3	6535.9	6288.3	6246.2	6209.8	5892.9	5712.9	5582.5
42.5°	7145.1	7172.3	7013.8	6735.6	6499.6	6465.7	6550.7	6211.5	6061.3	5936.6
45°	7003.9	7082.3	6978.3	6789.3	6649.8	6631.6	6852.9	6559.8	6446.7	6332.8
47.5°	6646.5	6779.4	6736.5	6710.1	6690.2	6768.7	7118.7	6929.6	6883.4	6784.3
50°	5925.1	6176.8	6251.9	6418.7	6610.2	6875.1	7360.5	7333.3	7393.5	7293.6
52.5°	4677.8	5024.5	5460.3	5878.0	6364.2	6839.7	7626.3	7912.7	8167.0	8112.5
55°	3861.4	4017.5	4352.6	5118.6	5887.1	6690.2	7746.0	8380.8	8934.6	8885.9
57.5°	3234.1	3373.6	3580.0	4219.7	5165.6	6351.0	7820.3	8666.4	9460.4	9455.5
60°	2561.4	2709.1	2920.4	3373.6	4322.9	5764.9	7803.8	8991.6	10131.5	10172.8
62.5°	1802.0	1964.6	2199.0	2621.6	3461.9	5005.5	7467.0	9226.8	10921.5	11033.8
65°	1184.5	1291.8	1468.5	1833.3	2579.5	4029.0	6824.0	9257.4	11766.7	11956.6
67.5°	830.4	871.7	975.7	1173.8	1700.4	3089.6	5799.6	8941.2	12330.5	12544.3
70°	648.0	668.6	721.4	800.7	1068.1	2077.7	4444.2	8119.1	12210.0	12432.9
72.5°	559.7	579.5	599.3	609.2	716.5	1282.7	3010.4	6788.5	11075.0	11226.1
75°	507.6	512.6	529.1	525.8	546.4	832.1	1737.6	4946.1	8738.2	8686.2
77.5°	426.8	433.4	460.6	456.5	485.4	568.7	902.2	3192.0	5665.0	5311.8
80°	361.5	364.8	394.6	389.6	421.8	411.9	460.6	1627.0	2402.9	2035.6
82.5°	125.5	155.2	301.3	310.4	321.9	249.3	265.8	663.7	733.8	562.1
85°	61.1	65.2	153.5	217.9	217.1	125.5	129.6	236.9	231.1	181.6
87.5°	9.9	12.4	18.2	85.0	67.7	33.0	44.6	46.2	47.9	41.3
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°
1876.2	0°	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2
1943.1	2.5°	1896.9	1855.6	1768.9	1688.9	1626.1	1565.9	1532.0	1503.1	1486.6	1483.3
2033.9	5°	1948.1	1863.0	1705.4	1572.5	1485.8	1421.4	1387.6	1366.1	1355.4	1348.8
2156.1	7.5°	2021.5	1896.9	1672.4	1521.3	1430.5	1384.3	1366.9	1363.6	1362.8	1363.6
2303.8	10°	2123.0	1952.2	1669.1	1508.9	1433.0	1407.4	1406.6	1407.4	1410.7	1411.5
2464.8	12.5°	2232.8	2009.1	1682.3	1519.6	1464.3	1450.3	1447.8	1447.0	1449.5	1451.1
2627.4	15°	2352.5	2084.3	1704.5	1542.8	1499.0	1484.2	1481.7	1476.7	1475.9	1475.1
2798.3	17.5°	2475.5	2158.5	1729.3	1567.5	1521.3	1500.7	1491.6	1480.0	1470.9	1468.5
2974.9	20°	2600.2	2232.0	1746.6	1579.9	1522.9	1494.1	1475.9	1456.1	1440.4	1431.3
3153.2	22.5°	2733.1	2308.8	1757.4	1576.6	1508.1	1468.5	1435.5	1412.3	1388.4	1372.7
3333.2	25°	2862.7	2375.6	1756.6	1559.3	1479.2	1428.8	1386.8	1357.0	1324.0	1307.5
3518.9	27.5°	2987.3	2435.9	1735.9	1528.7	1437.9	1381.8	1331.4	1296.0	1263.8	1248.1
3706.3	30°	3116.1	2486.2	1703.7	1484.2	1389.2	1327.3	1272.0	1241.5	1212.6	1197.7
3904.4	32.5°	3244.0	2532.5	1658.3	1428.8	1333.1	1273.7	1219.2	1191.1	1173.8	1173.8
4117.3	35°	3379.4	2564.7	1598.1	1364.5	1273.7	1216.7	1173.8	1157.3	1155.6	1145.7
4342.7	37.5°	3522.2	2585.3	1524.6	1298.4	1215.1	1161.4	1148.2	1128.4	1111.9	1090.4
4590.3	40°	3672.4	2605.9	1436.3	1229.9	1153.1	1123.4	1117.7	1091.2	1044.2	991.4
4871.0	42.5°	3854.8	2620.0	1344.7	1161.4	1087.9	1078.0	1086.3	1040.9	965.8	926.2
5209.4	45°	4066.2	2643.1	1260.5	1093.7	1021.1	1021.1	1055.7	996.3	934.4	909.6
5595.7	47.5°	4340.2	2696.7	1182.0	1019.4	959.2	975.7	988.1	942.7	908.0	877.5
6066.2	50°	4736.4	2825.5	1101.1	944.3	912.1	945.1	927.8	901.4	860.9	836.2
6814.1	52.5°	5228.4	2901.4	1029.3	876.6	871.7	904.7	879.9	855.2	824.6	791.6
7381.1	55°	5563.5	2915.5	969.1	827.1	844.4	841.1	832.1	809.8	793.3	749.5
7940.8	57.5°	5938.3	2943.5	919.5	797.4	827.1	790.8	787.5	768.5	747.0	717.3
8623.4	60°	6386.5	2987.3	876.6	785.8	812.2	757.8	741.3	733.8	712.4	697.5
9444.8	62.5°	6875.1	3026.9	832.9	787.5	794.9	725.6	700.8	698.3	685.1	680.2
10215.7	65°	7208.6	2918.8	778.4	785.8	767.7	692.6	661.2	660.4	649.6	648.0
10550.0	67.5°	7092.2	2576.2	704.9	762.7	739.6	659.5	624.9	621.6	607.5	608.4
10200.9	70°	6509.5	2087.6	603.4	705.8	704.9	629.8	586.9	576.2	557.2	560.5
8869.4	72.5°	5416.6	1546.9	467.2	610.8	649.6	602.6	543.1	525.8	501.9	505.2
6547.4	75°	3911.8	1051.6	340.1	464.7	565.4	570.4	500.2	470.5	441.6	446.6
3644.3	77.5°	2001.7	596.0	250.1	320.3	444.1	518.4	461.4	421.8	415.2	461.4
1050.8	80°	652.9	298.8	173.3	224.5	291.4	424.3	404.5	359.1	357.4	368.1
220.4	82.5°	194.8	126.3	111.4	147.8	161.0	325.2	349.2	271.6	233.6	246.0
73.5	85°	66.9	61.1	63.6	73.5	76.8	190.7	244.3	179.9	170.0	187.4
16.5	87.5°	15.7	21.5	18.2	16.5	16.5	46.2	94.9	75.1	104.0	69.3
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>
1876.2
1483.3
1348.0
1366.1
1412.3
1452.0
1474.2
1470.9
1434.6
1373.5
1307.5
1247.3
1196.9
1174.6
1143.2
1087.1
983.9
927.0
913.8
876.6
833.7
785.0
750.3
707.4
701.6
680.2
647.2
608.4
563.8
504.3
448.2
454.8
316.1
254.2
184.9
66.9
0.0

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