

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: P949275

Luminaire Tested: **GALN-SB4A-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949275  
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-SB4A-827-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

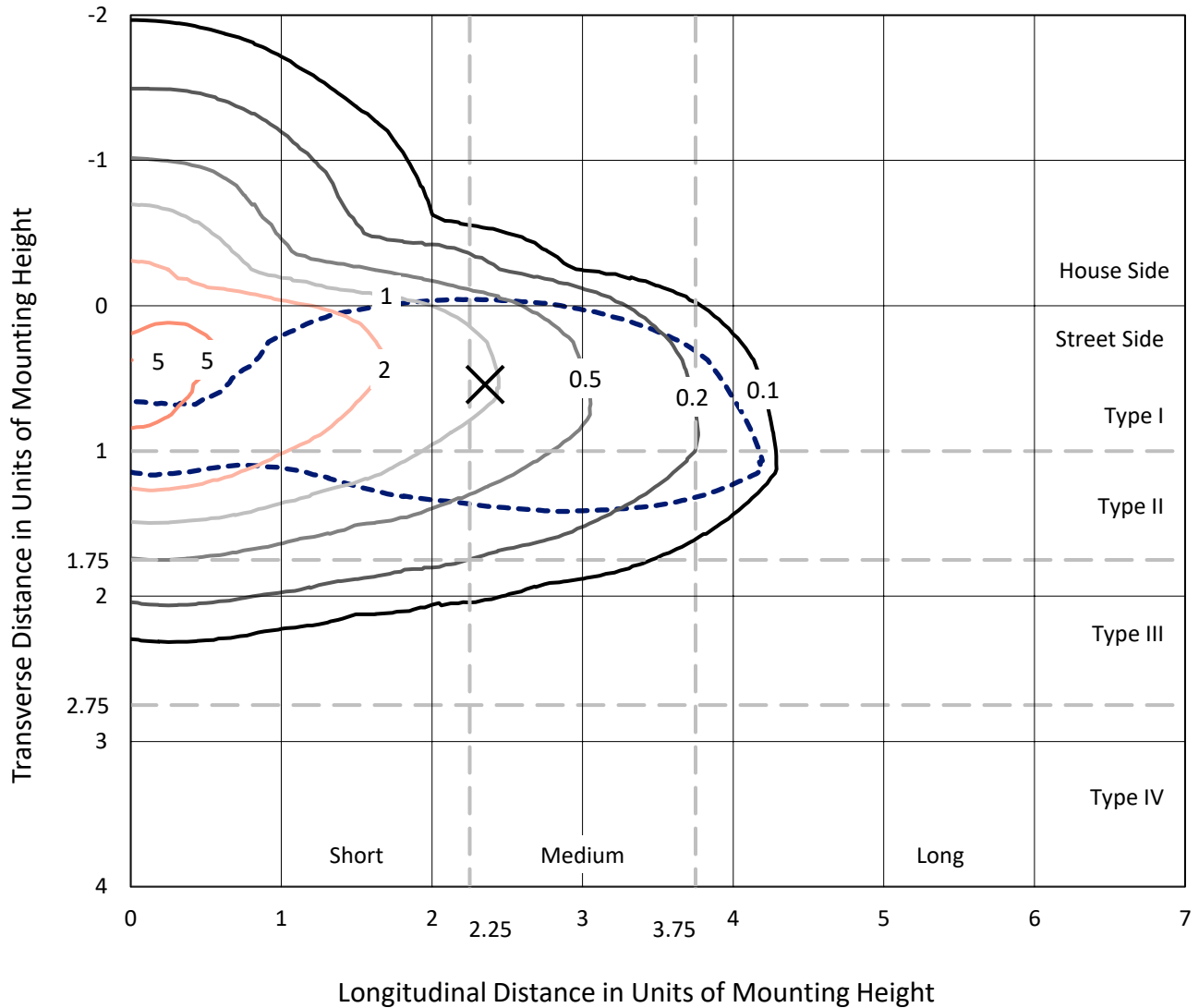
Lumens per Lamp: N/A  
Luminaire Lumens: 15923 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

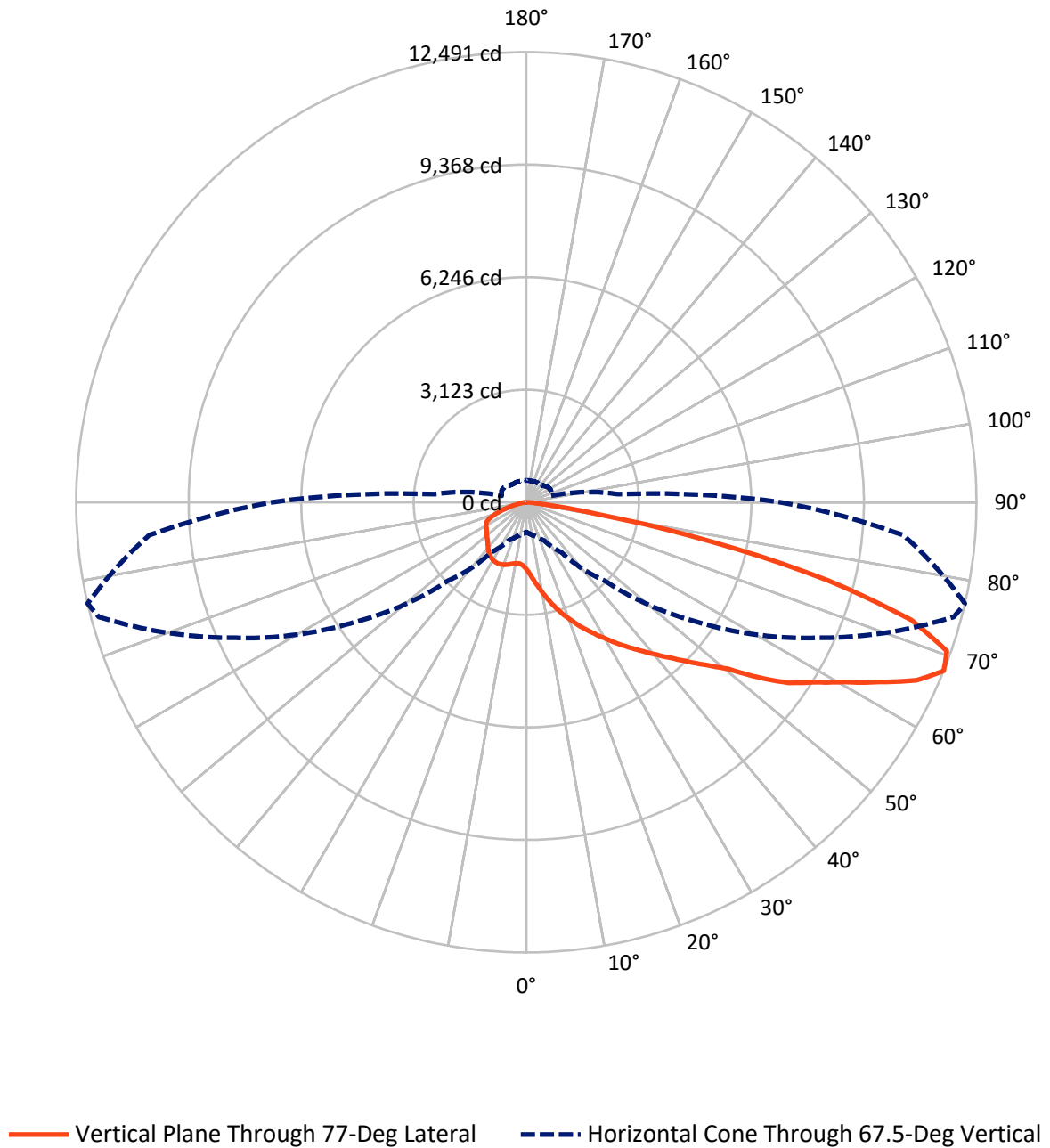
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3012.0	0.0	3012.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	12911.0	0.0	12911.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	15923.0	0.0	15923.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.3	1.3
10°-20°	719.4	4.5
20°-30°	1358.3	8.5
30°-40°	2188.3	13.7
40°-50°	2993.2	18.8
50°-60°	3376.3	21.2
60°-70°	3151.4	19.8
70°-80°	1727.5	10.8
80°-90°	208.4	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°	15923.0	100.0
0°-180°	15923.0	100.0



REPORT NUMBER: P949275

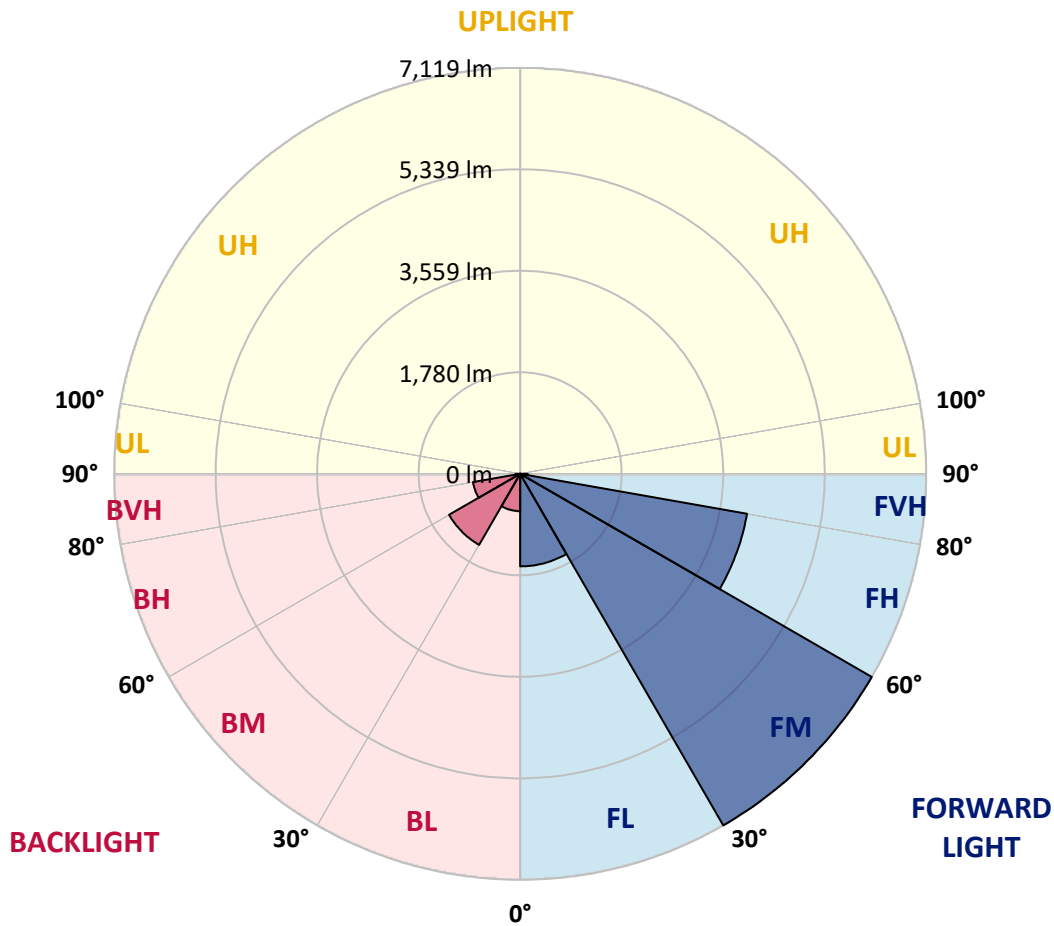
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.2	10.2			
FM (30°-60°)	7119.0	44.7			
FH (60°-80°)	4038.5	25.4			G2/5000
FVH (80°-90°)	130.3	0.8			G2/225
BL (0°-30°)	654.9	4.1	B2/1000		
BM (30°-60°)	1438.8	9.0	B2/2500		
BH (60°-80°)	840.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	78.1	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°	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3
2.5°	2339.2	2355.7	2335.1	2335.1	2266.1	2229.9	2160.9	2108.3	2013.7	1997.3
5°	2765.0	2785.5	2756.8	2744.4	2663.1	2588.3	2472.4	2358.1	2189.6	2172.4
7.5°	3094.6	3120.9	3095.4	3082.3	3009.9	2926.1	2790.5	2631.0	2393.5	2359.8
10°	3363.4	3367.5	3359.3	3364.2	3307.5	3238.4	3099.5	2913.8	2617.0	2571.0
12.5°	3515.4	3534.3	3550.8	3580.4	3570.5	3527.8	3402.8	3180.9	2853.8	2794.6
15°	3586.9	3619.8	3656.8	3725.0	3780.1	3790.8	3695.4	3467.8	3094.6	3023.1
17.5°	3612.4	3643.6	3702.0	3800.6	3919.0	3998.7	3956.0	3746.4	3333.0	3250.8
20°	3741.5	3750.5	3785.8	3879.5	4007.8	4140.1	4172.2	4014.3	3568.9	3476.0
22.5°	4017.6	3999.5	4009.4	4052.1	4144.2	4272.4	4345.6	4251.1	3811.3	3704.5
25°	4473.8	4421.2	4368.6	4319.3	4366.1	4438.5	4521.5	4487.8	4065.3	3929.7
27.5°	5050.0	4985.9	4870.0	4708.1	4651.3	4676.8	4713.8	4707.2	4300.4	4163.1
30°	5617.1	5542.3	5404.2	5170.0	5020.4	4953.0	4925.0	4906.1	4556.0	4409.7
32.5°	6070.0	6010.8	5875.2	5613.0	5396.0	5280.9	5188.1	5120.7	4823.1	4676.8
35°	6466.2	6411.1	6255.8	5969.7	5733.8	5611.4	5489.7	5345.9	5100.9	4953.0
37.5°	6827.8	6772.8	6559.9	6262.3	6024.8	5940.1	5831.6	5587.5	5379.6	5239.8
40°	7056.3	7044.0	6845.1	6508.1	6261.5	6219.6	6183.4	5867.8	5688.6	5558.8
42.5°	7114.7	7141.8	6984.0	6707.0	6471.9	6438.2	6522.9	6185.1	6035.5	5911.4
45°	6974.1	7052.2	6948.7	6760.4	6621.5	6603.4	6823.7	6531.9	6419.3	6305.9
47.5°	6618.2	6750.6	6707.8	6681.5	6661.8	6739.9	7088.4	6900.2	6854.1	6755.5
50°	5899.9	6150.6	6225.4	6391.4	6582.1	6845.9	7329.2	7302.1	7362.1	7262.6
52.5°	4657.9	5003.1	5437.1	5853.0	6337.1	6810.6	7593.9	7879.1	8132.2	8078.0
55°	3845.0	4000.4	4334.1	5096.8	5862.1	6661.8	7713.1	8345.1	8896.6	8848.2
57.5°	3220.3	3359.3	3564.7	4201.7	5143.7	6324.0	7787.0	8629.5	9420.2	9415.3
60°	2550.5	2697.6	2908.0	3359.3	4304.5	5740.4	7770.6	8953.4	10088.5	10129.6
62.5°	1794.3	1956.2	2189.6	2610.5	3447.2	4984.2	7435.2	9187.6	10875.0	10986.8
65°	1179.5	1286.3	1462.2	1825.5	2568.6	4011.9	6795.0	9218.0	11716.7	11905.8
67.5°	826.9	868.0	971.5	1168.8	1693.2	3076.5	5774.9	8903.2	12278.1	12491.0
70°	645.2	665.8	718.4	797.3	1063.6	2068.8	4425.3	8084.6	12158.1	12380.0
72.5°	557.3	577.0	596.7	606.6	713.4	1277.3	2997.6	6759.6	11027.9	11178.3
75°	505.5	510.4	526.9	523.6	544.1	828.5	1730.2	4925.0	8701.0	8649.2
77.5°	424.9	431.5	458.6	454.5	483.3	566.3	898.4	3178.4	5641.0	5289.2
80°	360.0	363.3	392.9	388.0	420.0	410.1	458.6	1620.0	2392.7	2026.9
82.5°	124.9	154.5	300.0	309.0	320.6	248.2	264.7	660.8	730.7	559.7
85°	60.8	64.9	152.9	217.0	216.2	124.9	129.0	235.9	230.1	180.8
87.5°	9.9	12.3	18.1	84.7	67.4	32.9	44.4	46.0	47.7	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949275  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1868.3	0°	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3
1934.8	2.5°	1888.8	1847.7	1761.4	1681.7	1619.2	1559.2	1525.5	1496.7	1480.3	1477.0
2025.3	5°	1939.8	1855.1	1698.1	1565.8	1479.5	1415.4	1381.7	1360.3	1349.6	1343.0
2146.9	7.5°	2012.9	1888.8	1665.2	1514.8	1424.4	1378.4	1361.1	1357.8	1357.0	1357.8
2294.0	10°	2114.0	1943.9	1662.0	1502.5	1426.9	1401.4	1400.6	1401.4	1404.7	1405.5
2454.3	12.5°	2223.3	2000.6	1675.1	1513.2	1458.1	1444.1	1441.7	1440.9	1443.3	1445.0
2616.2	15°	2342.5	2075.4	1697.3	1536.2	1492.6	1477.8	1475.4	1470.4	1469.6	1468.8
2786.4	17.5°	2465.0	2149.4	1722.0	1560.9	1514.8	1494.3	1485.2	1473.7	1464.7	1462.2
2962.3	20°	2589.1	2222.5	1739.2	1573.2	1516.5	1487.7	1469.6	1449.9	1434.3	1425.2
3139.8	22.5°	2721.4	2299.0	1749.9	1569.9	1501.7	1462.2	1429.3	1406.3	1382.5	1366.9
3319.0	25°	2850.5	2365.5	1749.1	1552.6	1472.9	1422.8	1380.9	1351.3	1318.4	1301.9
3503.9	27.5°	2974.6	2425.5	1728.5	1522.2	1431.8	1375.9	1325.8	1290.4	1258.4	1242.8
3690.5	30°	3102.8	2475.7	1696.5	1477.8	1383.3	1321.7	1266.6	1236.2	1207.4	1192.6
3887.8	32.5°	3230.2	2521.7	1651.3	1422.8	1327.4	1268.2	1214.0	1186.1	1168.8	1168.8
4099.8	35°	3365.0	2553.8	1591.3	1358.7	1268.2	1211.5	1168.8	1152.4	1150.7	1140.8
4324.2	37.5°	3507.2	2574.3	1518.1	1292.9	1209.9	1156.5	1143.3	1123.6	1107.1	1085.8
4570.8	40°	3656.8	2594.9	1430.2	1224.7	1148.2	1118.7	1112.9	1086.6	1039.8	987.1
4850.2	42.5°	3838.4	2608.8	1338.9	1156.5	1083.3	1073.4	1081.7	1036.5	961.7	922.2
5187.2	45°	4048.9	2631.8	1255.1	1089.1	1016.7	1016.7	1051.3	992.1	930.4	905.8
5571.9	47.5°	4321.7	2685.3	1177.0	1015.1	955.1	971.5	983.9	938.7	904.1	873.7
6040.4	50°	4716.3	2813.5	1096.5	940.3	908.2	941.1	923.9	897.6	857.3	832.6
6785.1	52.5°	5206.1	2889.1	1025.0	872.9	868.0	900.8	876.2	851.5	821.1	788.2
7349.8	55°	5539.9	2903.1	965.0	823.6	840.8	837.6	828.5	806.3	789.9	746.3
7907.0	57.5°	5913.0	2931.0	915.6	794.0	823.6	787.4	784.1	765.2	743.9	714.3
8586.8	60°	6359.3	2974.6	872.9	782.5	808.8	754.5	738.1	730.7	709.3	694.5
9404.6	62.5°	6845.9	3014.0	829.3	784.1	791.5	722.5	697.8	695.4	682.2	677.3
10172.3	65°	7178.0	2906.4	775.1	782.5	764.4	689.6	658.4	657.5	646.9	645.2
10505.2	67.5°	7062.1	2565.3	701.9	759.5	736.5	656.7	622.2	618.9	604.9	605.8
10157.5	70°	6481.8	2078.7	600.8	702.8	701.9	627.1	584.4	573.7	554.8	558.1
8831.7	72.5°	5393.5	1540.3	465.2	608.2	646.9	600.0	540.8	523.6	499.7	503.0
6519.6	75°	3895.2	1047.1	338.6	462.8	563.0	568.0	498.1	468.5	439.7	444.7
3628.9	77.5°	1993.2	593.4	249.0	318.9	442.2	516.2	459.5	420.0	413.4	459.5
1046.3	80°	650.2	297.5	172.6	223.6	290.1	422.5	402.7	357.5	355.9	366.6
219.5	82.5°	194.0	125.8	111.0	147.1	160.3	323.8	347.7	270.4	232.6	244.9
73.2	85°	66.6	60.8	63.3	73.2	76.4	189.9	243.3	179.2	169.3	186.6
16.4	87.5°	15.6	21.4	18.1	16.4	16.4	46.0	94.5	74.8	103.6	69.0
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>
1868.3
1477.0
1342.2
1360.3
1406.3
1445.8
1468.0
1464.7
1428.5
1367.7
1301.9
1241.9
1191.8
1169.6
1138.4
1082.5
979.7
923.0
909.9
872.9
830.2
781.7
747.1
704.4
698.6
677.3
644.4
605.8
561.4
502.2
446.3
452.9
314.8
253.2
184.1
66.6
0.0

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