

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: P947049

Luminaire Tested: **GALN-SB2C-735-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947049  
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-SB2C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

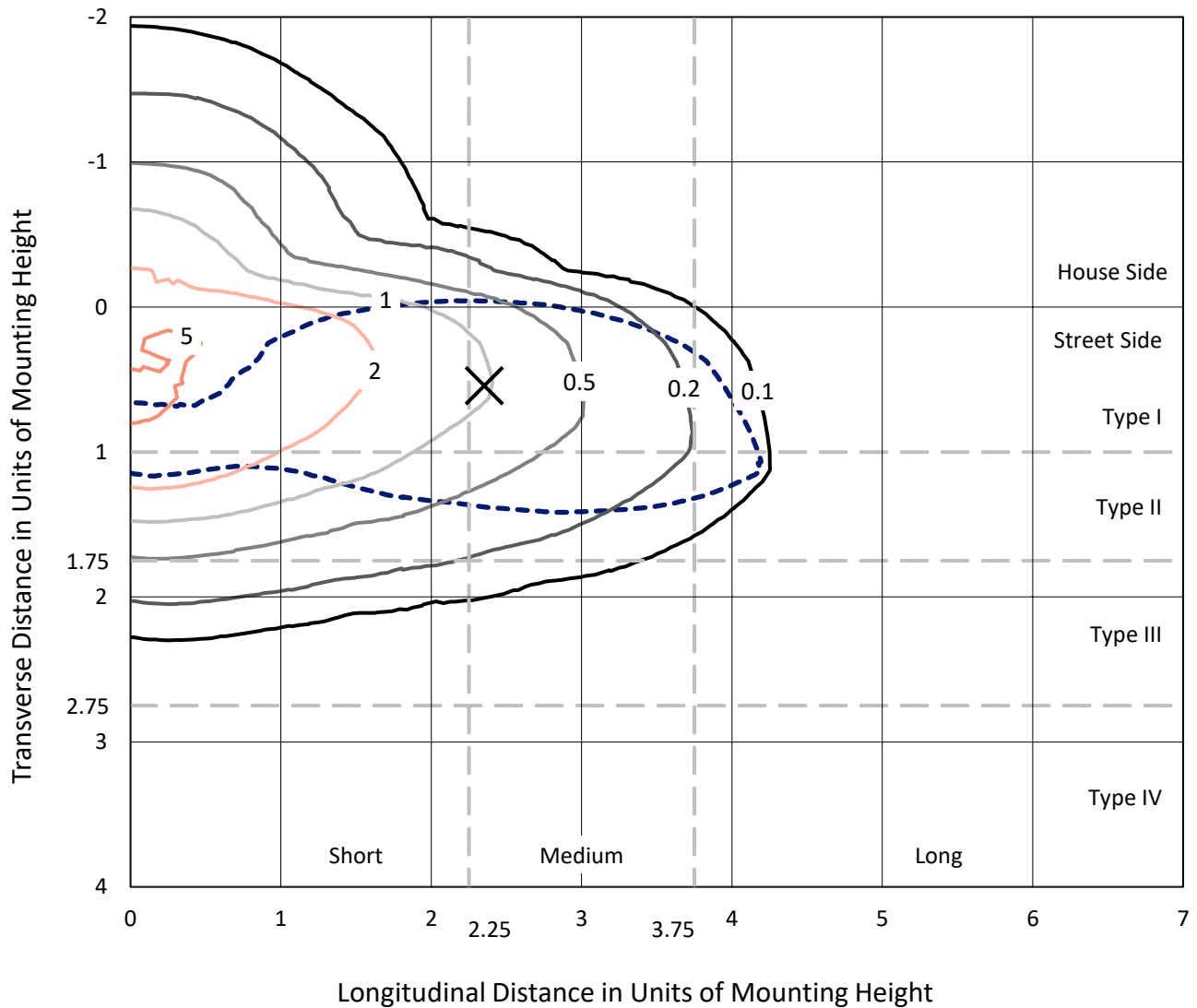
Lumens per Lamp: N/A  
Luminaire Lumens: 15255 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

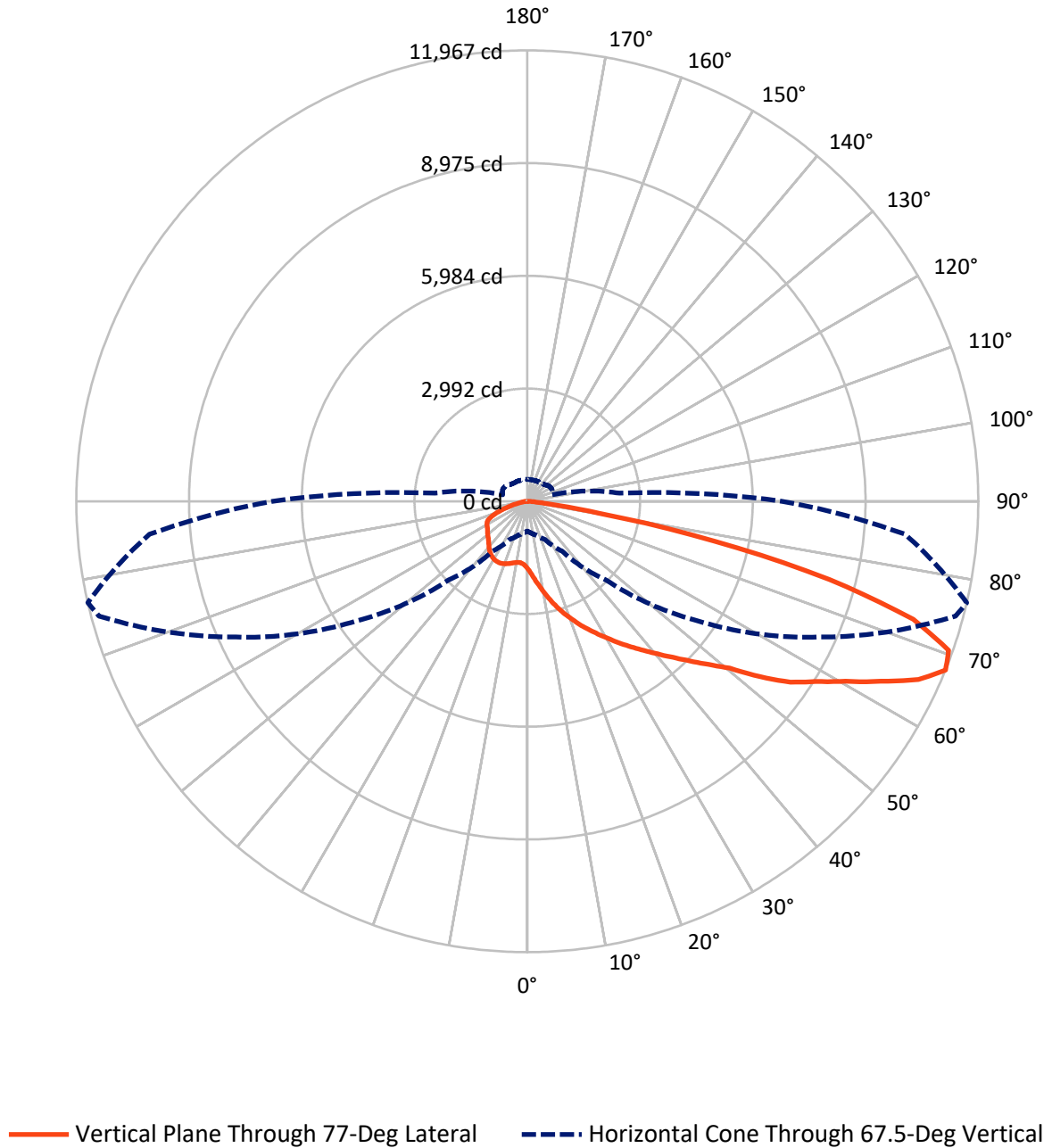
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2885.6	0.0	2885.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	12369.4	0.0	12369.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	15255.0	0.0	15255.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	1.3
10°-20°	689.2	4.5
20°-30°	1301.4	8.5
30°-40°	2096.5	13.7
40°-50°	2867.6	18.8
50°-60°	3234.7	21.2
60°-70°	3019.2	19.8
70°-80°	1655.0	10.8
80°-90°	199.6	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°	15255.0	100.0
0°-180°	15255.0	100.0



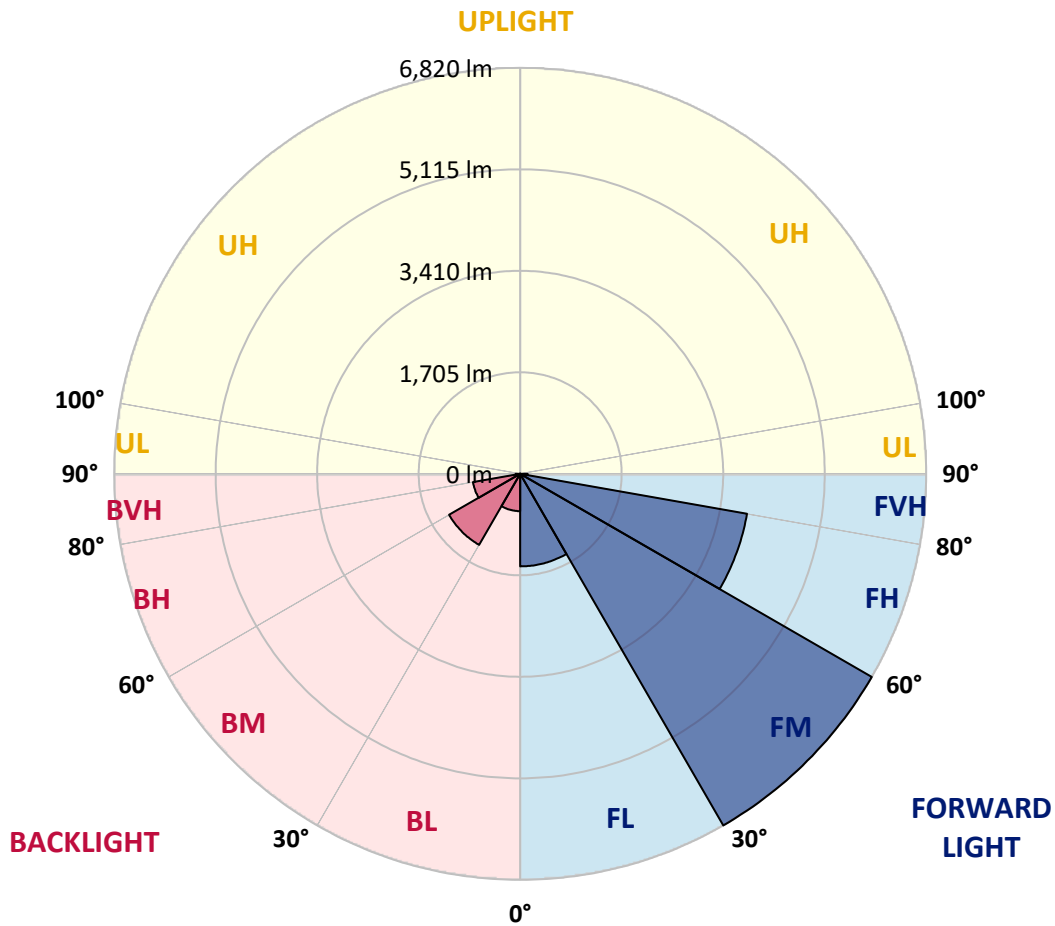
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.1	10.2			
FM (30°-60°)	6820.3	44.7			
FH (60°-80°)	3869.1	25.4			G2/5000
FVH (80°-90°)	124.8	0.8			G2/225
BL (0°-30°)	627.4	4.1	B2/1000		
BM (30°-60°)	1378.4	9.0	B2/2500		
BH (60°-80°)	805.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	74.8	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°	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9
2.5°	2241.1	2256.8	2237.2	2237.2	2171.0	2136.4	2070.2	2019.8	1929.3	1913.5
5°	2649.0	2668.7	2641.1	2629.3	2551.4	2479.7	2368.7	2259.2	2097.8	2081.2
7.5°	2964.8	2990.0	2965.6	2953.0	2883.7	2803.3	2673.4	2520.6	2293.1	2260.8
10°	3222.3	3226.2	3218.3	3223.1	3168.7	3102.6	2969.5	2791.5	2507.3	2463.2
12.5°	3367.9	3386.1	3401.8	3430.2	3420.7	3379.8	3260.1	3047.5	2734.0	2677.3
15°	3436.5	3468.0	3503.4	3568.7	3621.5	3631.7	3540.4	3322.3	2964.8	2896.3
17.5°	3460.9	3490.8	3546.7	3641.2	3754.6	3831.0	3790.0	3589.2	3193.1	3114.4
20°	3584.5	3593.2	3627.0	3716.8	3839.6	3966.4	3997.1	3845.9	3419.1	3330.1
22.5°	3849.1	3831.8	3841.2	3882.2	3970.3	4093.2	4163.3	4072.7	3651.4	3549.1
25°	4286.1	4235.7	4185.3	4138.1	4183.0	4252.3	4331.8	4299.5	3894.8	3764.8
27.5°	4838.1	4776.7	4665.7	4510.5	4456.2	4480.6	4516.1	4509.8	4120.0	3988.5
30°	5381.5	5309.8	5177.5	4953.1	4809.8	4745.2	4718.4	4700.3	4364.9	4224.7
32.5°	5815.4	5758.7	5628.7	5377.5	5169.6	5059.4	4970.4	4905.8	4620.8	4480.6
35°	6194.9	6142.1	5993.3	5719.3	5493.3	5376.0	5259.4	5121.6	4886.9	4745.2
37.5°	6541.4	6488.6	6284.7	5999.6	5772.0	5690.9	5587.0	5353.1	5153.9	5020.0
40°	6760.3	6748.5	6557.9	6235.1	5998.8	5958.7	5924.0	5621.6	5450.0	5325.6
42.5°	6816.2	6842.2	6691.0	6425.6	6200.4	6168.1	6249.2	5925.6	5782.3	5663.4
45°	6681.6	6756.4	6657.1	6476.8	6343.7	6326.4	6537.5	6257.9	6150.0	6041.4
47.5°	6340.6	6467.4	6426.4	6401.2	6382.3	6457.1	6791.0	6610.7	6566.6	6472.1
50°	5652.4	5892.5	5964.2	6123.3	6305.9	6558.7	7021.7	6995.8	7053.2	6958.0
52.5°	4462.5	4793.2	5209.0	5607.5	6071.3	6524.9	7275.3	7548.5	7791.1	7739.1
55°	3683.7	3832.5	4152.3	4883.0	5616.1	6382.3	7389.5	7995.0	8523.4	8477.0
57.5°	3085.2	3218.3	3415.2	4025.5	4927.9	6058.7	7460.3	8267.5	9025.0	9020.3
60°	2443.5	2584.4	2786.0	3218.3	4123.9	5499.6	7444.6	8577.7	9665.2	9704.6
62.5°	1719.0	1874.1	2097.8	2501.0	3302.6	4775.1	7123.3	8802.2	10418.8	10525.9
65°	1130.0	1232.4	1400.9	1748.9	2460.8	3843.6	6509.9	8831.3	11225.2	11406.3
67.5°	792.2	831.6	930.8	1119.8	1622.2	2947.4	5532.7	8529.7	11763.0	11967.0
70°	618.2	637.8	688.2	763.8	1019.0	1982.0	4239.7	7745.4	11648.0	11860.6
72.5°	533.9	552.8	571.7	581.1	683.5	1223.7	2871.8	6476.0	10565.3	10709.4
75°	484.3	489.0	504.8	501.6	521.3	793.8	1657.6	4718.4	8336.0	8286.4
77.5°	407.1	413.4	439.4	435.5	463.0	542.6	860.7	3045.1	5404.3	5067.3
80°	344.9	348.1	376.4	371.7	402.4	392.9	439.4	1552.1	2292.3	1941.9
82.5°	119.7	148.0	287.4	296.1	307.1	237.8	253.6	633.1	700.0	536.3
85°	58.3	62.2	146.5	207.9	207.1	119.7	123.6	226.0	220.5	173.2
87.5°	9.4	11.8	17.3	81.1	64.6	31.5	42.5	44.1	45.7	39.4
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°
1789.9	0°	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9
1853.7	2.5°	1809.6	1770.2	1687.5	1611.1	1551.3	1493.8	1461.5	1434.0	1418.2	1415.1
1940.3	5°	1858.4	1777.3	1626.9	1500.1	1417.4	1356.0	1323.7	1303.2	1293.0	1286.7
2056.8	7.5°	1928.5	1809.6	1595.4	1451.3	1364.7	1320.6	1304.0	1300.9	1300.1	1300.9
2197.8	10°	2025.3	1862.3	1592.2	1439.5	1367.0	1342.6	1341.8	1342.6	1345.8	1346.5
2351.3	12.5°	2130.1	1916.7	1604.8	1449.7	1396.9	1383.6	1381.2	1380.4	1382.8	1384.3
2506.5	15°	2244.2	1988.3	1626.1	1471.8	1430.0	1415.8	1413.5	1408.8	1408.0	1407.2
2669.5	17.5°	2361.6	2059.2	1649.7	1495.4	1451.3	1431.6	1422.9	1411.9	1403.2	1400.9
2838.0	20°	2480.5	2129.3	1666.3	1507.2	1452.9	1425.3	1408.0	1389.1	1374.1	1365.4
3008.1	22.5°	2607.3	2202.5	1676.5	1504.0	1438.7	1400.9	1369.4	1347.3	1324.5	1309.5
3179.7	25°	2730.9	2266.3	1675.7	1487.5	1411.1	1363.1	1322.9	1294.6	1263.1	1247.3
3356.9	27.5°	2849.8	2323.8	1656.0	1458.4	1371.7	1318.2	1270.2	1236.3	1205.6	1190.6
3535.7	30°	2972.6	2371.8	1625.3	1415.8	1325.3	1266.2	1213.5	1184.3	1156.8	1142.6
3724.7	32.5°	3094.7	2415.9	1582.0	1363.1	1271.7	1215.0	1163.1	1136.3	1119.8	1119.8
3927.8	35°	3223.8	2446.6	1524.5	1301.7	1215.0	1160.7	1119.8	1104.0	1102.4	1093.0
4142.8	37.5°	3360.1	2466.3	1454.4	1238.7	1159.1	1107.9	1095.4	1076.5	1060.7	1040.2
4379.0	40°	3503.4	2486.0	1370.2	1173.3	1100.1	1071.7	1066.2	1041.0	996.1	945.7
4646.8	42.5°	3677.4	2499.4	1282.8	1107.9	1037.9	1028.4	1036.3	993.0	921.3	883.5
4969.6	45°	3879.0	2521.4	1202.4	1043.4	974.1	974.1	1007.2	950.5	891.4	867.8
5338.2	47.5°	4140.4	2572.6	1127.6	972.5	915.0	930.8	942.6	899.3	866.2	837.1
5787.0	50°	4518.4	2695.5	1050.5	900.8	870.1	901.6	885.1	859.9	821.3	797.7
6500.4	52.5°	4987.7	2767.9	982.0	836.3	831.6	863.1	839.4	815.8	786.7	755.2
7041.4	55°	5307.4	2781.3	924.5	789.0	805.6	802.4	793.8	772.5	756.7	715.0
7575.3	57.5°	5665.0	2808.1	877.2	760.7	789.0	754.4	751.2	733.1	712.6	684.3
8226.5	60°	6092.5	2849.8	836.3	749.7	774.9	722.9	707.1	700.0	679.6	665.4
9010.1	62.5°	6558.7	2887.6	794.5	751.2	758.3	692.2	668.5	666.2	653.6	648.9
9745.5	65°	6876.8	2784.4	742.6	749.7	732.3	660.7	630.8	630.0	619.7	618.2
10064.5	67.5°	6765.8	2457.6	672.5	727.6	705.6	629.2	596.1	593.0	579.6	580.4
9731.4	70°	6209.9	1991.5	575.6	673.3	672.5	600.8	559.9	549.6	531.5	534.7
8461.2	72.5°	5167.3	1475.7	445.7	582.7	619.7	574.8	518.1	501.6	478.8	481.9
6246.1	75°	3731.7	1003.2	324.4	443.3	539.4	544.1	477.2	448.8	421.3	426.0
3476.6	77.5°	1909.6	568.5	238.6	305.5	423.7	494.5	440.2	402.4	396.1	440.2
1002.4	80°	622.9	285.1	165.4	214.2	278.0	404.8	385.9	342.5	341.0	351.2
210.3	82.5°	185.8	120.5	106.3	141.0	153.6	310.3	333.1	259.1	222.8	234.7
70.1	85°	63.8	58.3	60.6	70.1	73.2	181.9	233.1	171.7	162.2	178.8
15.7	87.5°	15.0	20.5	17.3	15.7	15.7	44.1	90.6	71.7	99.2	66.1
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>
1789.9
1415.1
1285.9
1303.2
1347.3
1385.1
1406.4
1403.2
1368.6
1310.3
1247.3
1189.8
1141.8
1120.5
1090.6
1037.1
938.6
884.3
871.7
836.3
795.3
748.9
715.8
674.8
669.3
648.9
617.4
580.4
537.8
481.1
427.6
433.9
301.6
242.5
176.4
63.8
0.0

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