

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: P940155

Luminaire Tested: **GALN-SB3A-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11983 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

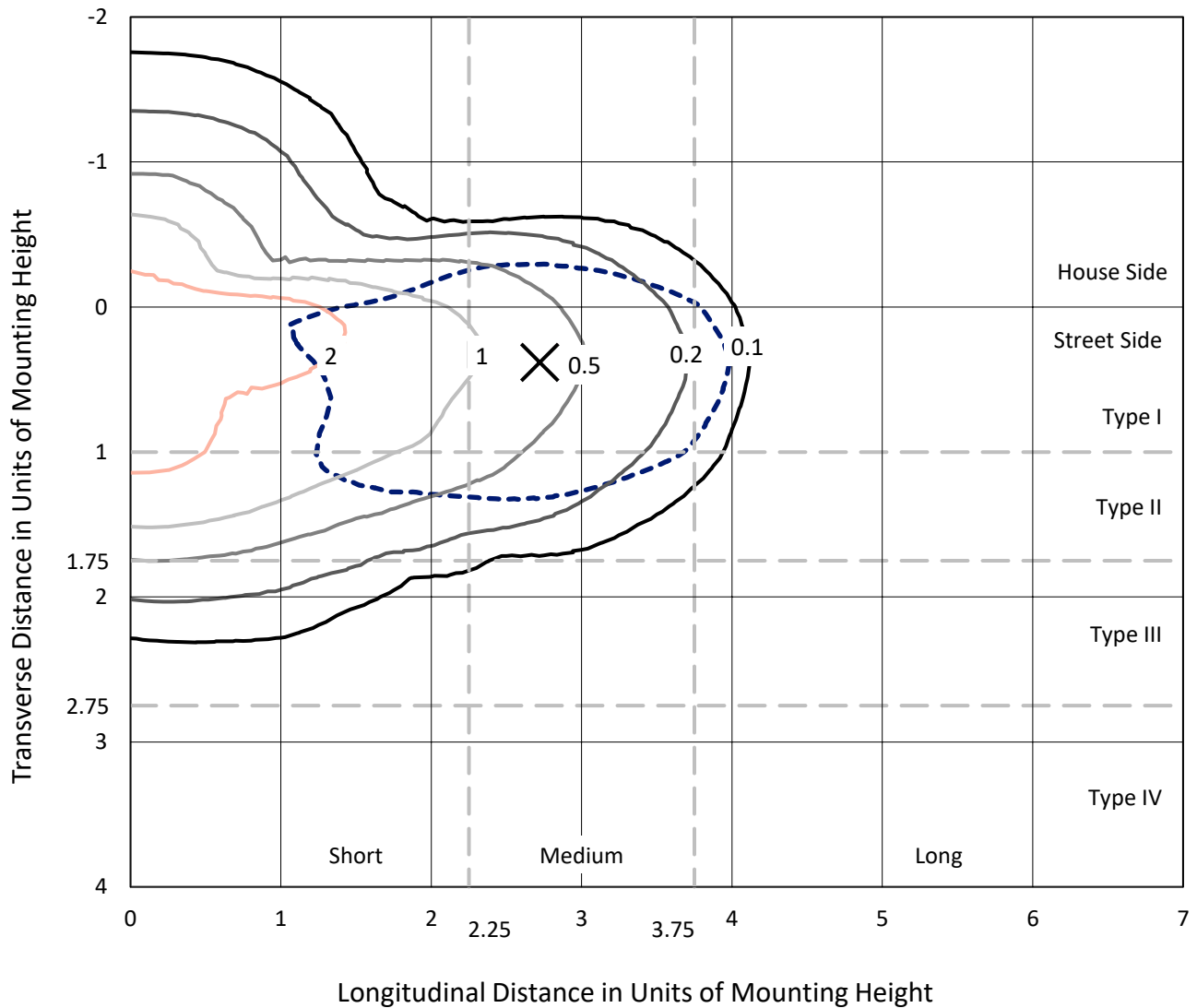
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

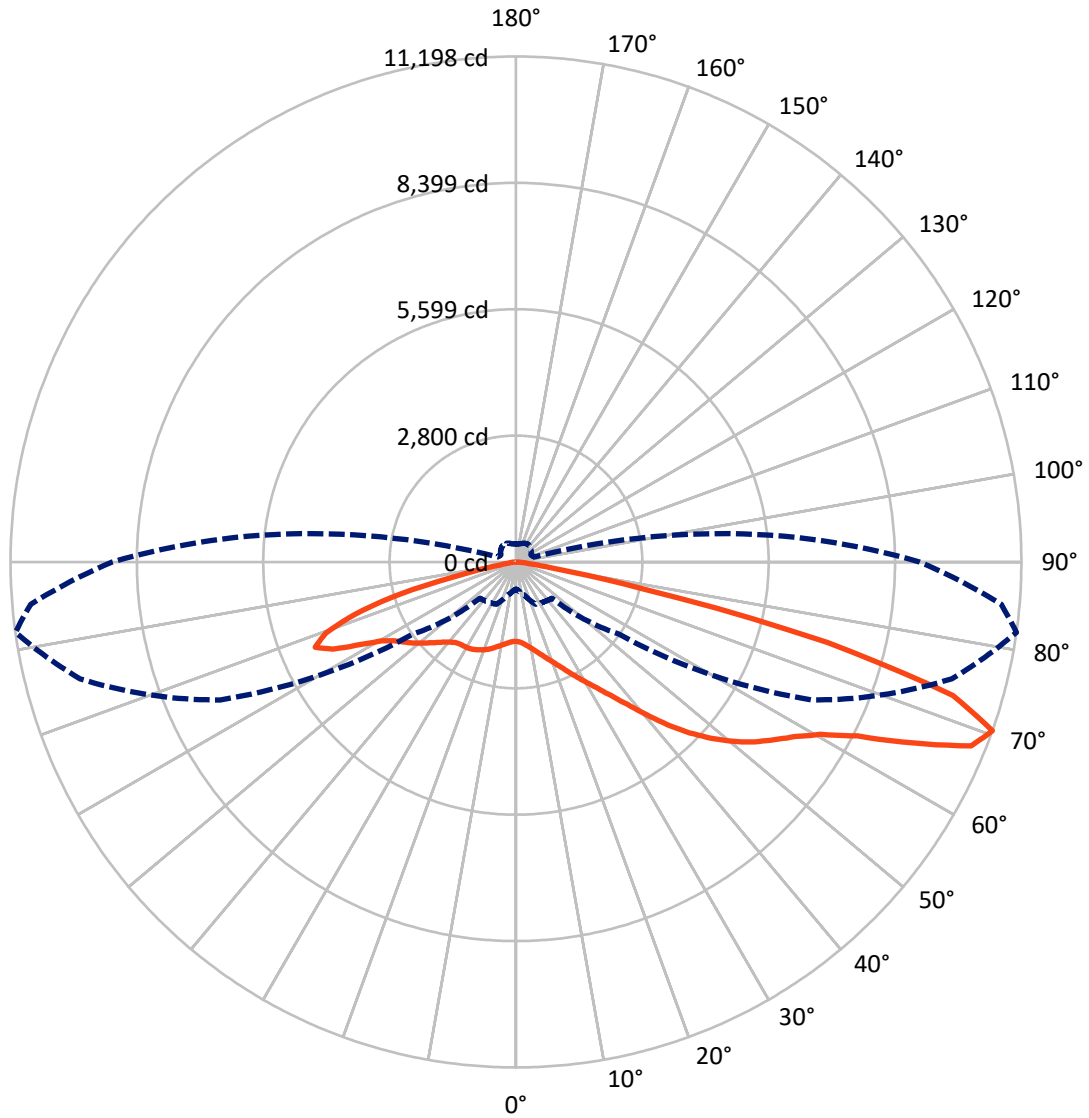
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2954.1	0.0	2954.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	9028.9	0.0	9028.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	11983.0	0.0	11983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	1.4
10°-20°	476.6	4.0
20°-30°	797.3	6.7
30°-40°	1245.5	10.4
40°-50°	1983.7	16.6
50°-60°	2760.5	23.0
60°-70°	2887.6	24.1
70°-80°	1509.2	12.6
80°-90°	156.7	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°	11983.0	100.0
0°-180°	11983.0	100.0

**Coefficient of Utilization**



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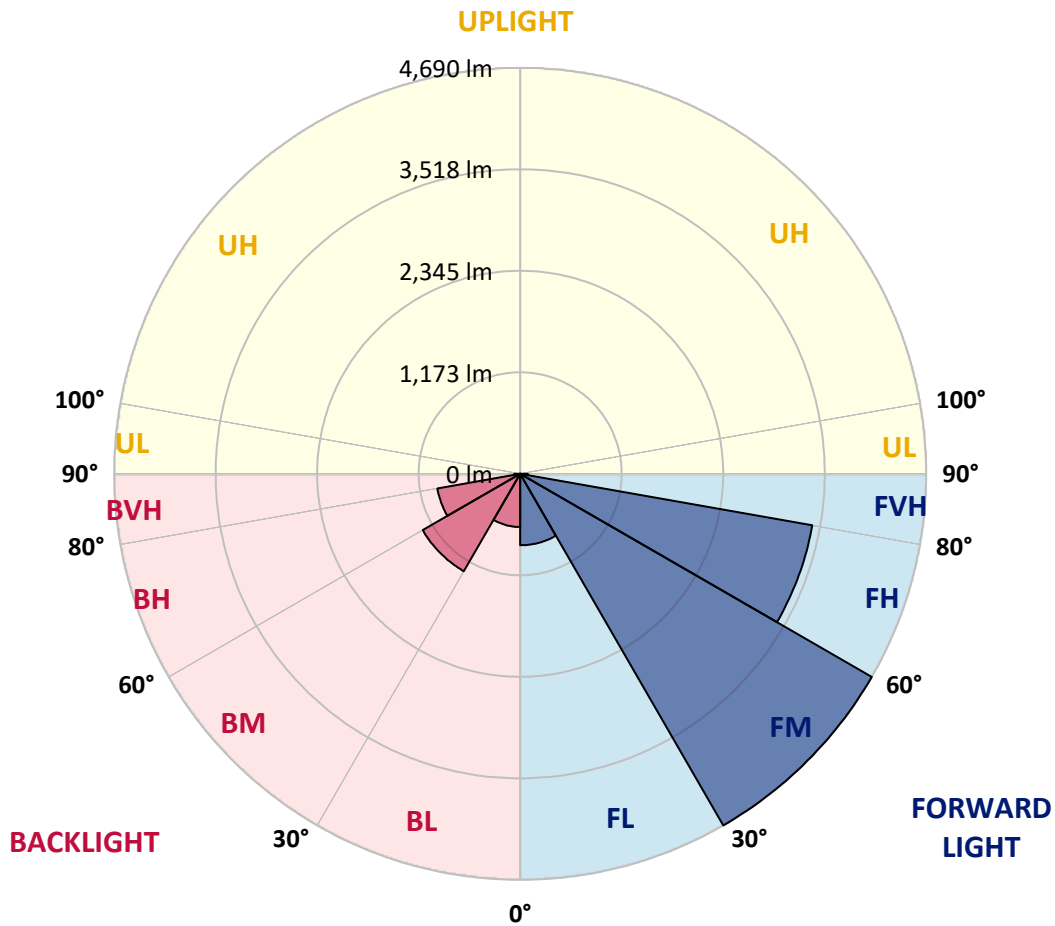
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.2	6.9			
FM (30°-60°)	4690.0	39.1			
FH (60°-80°)	3426.0	28.6			G2/5000
FVH (80°-90°)	87.7	0.7			G1/100
BL (0°-30°)	614.6	5.1	B2/1000		
BM (30°-60°)	1299.7	10.8	B2/2500		
BH (60°-80°)	970.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	69.0	0.6			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°	82°
0°	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9
2.5°	1798.8	1809.0	1805.8	1802.6	1802.6	1798.2	1797.6	1791.2	1786.1	1777.8
5°	1821.7	1832.5	1831.3	1833.8	1842.1	1844.0	1845.9	1842.1	1831.9	1821.7
7.5°	1801.4	1813.4	1817.3	1832.5	1858.0	1880.8	1898.0	1905.0	1895.5	1880.8
10°	1732.7	1746.0	1759.4	1795.6	1840.8	1894.8	1940.6	1968.0	1966.1	1952.1
12.5°	1593.4	1607.4	1636.0	1706.6	1789.3	1884.7	1969.9	2027.1	2046.8	2036.6
15°	1482.2	1494.3	1515.9	1588.4	1695.8	1840.8	1980.7	2092.0	2142.2	2136.5
17.5°	1479.0	1484.1	1497.4	1531.8	1614.4	1772.1	1969.2	2155.5	2251.6	2250.9
20°	1534.9	1536.9	1544.5	1551.5	1598.5	1720.0	1940.0	2208.3	2374.3	2374.3
22.5°	1612.5	1611.2	1618.9	1612.5	1635.4	1715.5	1921.5	2254.7	2511.0	2521.2
25°	1728.9	1722.5	1720.6	1706.0	1710.4	1756.9	1941.9	2307.5	2673.1	2694.1
27.5°	1884.0	1873.9	1866.9	1833.2	1821.7	1842.1	2004.2	2371.1	2853.7	2889.9
30°	2086.2	2067.8	2057.6	1999.1	1957.8	1961.0	2098.3	2455.7	3042.5	3101.0
32.5°	2362.2	2333.6	2306.2	2210.2	2134.6	2109.8	2219.8	2572.7	3247.3	3340.8
35°	2671.2	2648.3	2619.1	2470.9	2354.6	2297.3	2383.8	2736.1	3487.0	3635.2
37.5°	2968.8	2949.1	2963.1	2763.4	2613.3	2530.1	2598.7	2955.4	3782.7	4001.4
40°	3276.5	3261.3	3263.2	3072.4	2897.6	2804.1	2859.4	3230.8	4121.6	4437.0
42.5°	3611.0	3599.6	3561.4	3392.3	3195.8	3108.7	3159.5	3548.7	4485.3	4932.9
45°	3985.5	3978.5	3942.9	3749.0	3523.9	3426.0	3494.6	3899.7	4850.9	5399.7
47.5°	4309.2	4314.9	4310.4	4147.0	3913.7	3770.0	3852.0	4265.9	5191.1	5838.4
50°	4464.9	4494.8	4538.7	4487.8	4342.9	4196.6	4212.5	4619.5	5515.4	6249.8
52.5°	4383.6	4440.2	4559.7	4641.1	4697.0	4666.5	4623.9	4970.5	5820.6	6621.1
55°	4080.3	4159.7	4358.1	4554.6	4840.1	5062.0	5118.0	5359.6	6118.2	6947.9
57.5°	3527.7	3656.8	3834.8	4232.2	4712.9	5253.4	5694.1	5899.4	6433.5	7297.0
60°	2580.3	2753.2	2974.5	3565.9	4267.8	5151.0	6184.3	6728.6	6881.8	7749.1
62.5°	1651.3	1758.1	1961.6	2518.6	3325.5	4626.5	6334.4	7765.0	7641.7	8490.5
65°	1130.5	1199.2	1385.5	1698.4	2149.8	3443.8	5932.5	8542.0	8848.5	9665.6
67.5°	821.5	873.7	1032.6	1306.7	1400.8	2037.9	4603.6	8506.4	10021.7	10876.2
70°	599.0	635.9	769.4	1032.6	1077.8	1133.7	2788.8	7230.9	9996.2	11198.0
72.5°	443.8	469.3	558.9	801.2	872.4	765.6	1380.4	5255.3	8589.7	10128.5
75°	321.1	340.2	406.3	613.0	698.2	583.1	688.6	3071.2	5991.6	7124.7
77.5°	245.4	260.1	303.3	448.9	558.9	437.5	427.3	1412.9	2841.0	2855.0
80°	197.1	206.7	230.2	316.0	428.6	327.5	278.5	570.4	897.8	759.8
82.5°	145.0	160.9	194.6	221.9	306.5	225.7	169.8	288.0	341.5	293.8
85°	82.7	93.5	117.6	159.0	195.8	138.0	97.3	127.8	159.0	130.3
87.5°	29.2	38.2	41.3	62.3	85.2	57.2	37.5	36.9	52.1	38.8
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°
1756.9	0°	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9	1756.9
1775.9	2.5°	1769.6	1766.4	1753.7	1736.5	1718.7	1701.5	1695.8	1683.7	1675.5	1671.0
1817.3	5°	1805.2	1795.0	1765.1	1727.0	1686.9	1643.7	1613.2	1585.2	1564.8	1545.8
1873.9	7.5°	1856.1	1838.2	1786.7	1720.0	1648.8	1576.9	1523.5	1482.8	1455.5	1437.7
1940.0	10°	1915.2	1887.8	1809.0	1709.2	1599.2	1496.2	1433.2	1398.2	1381.1	1371.5
2015.6	12.5°	1983.2	1944.4	1831.9	1684.4	1523.5	1405.9	1362.6	1352.5	1353.1	1353.7
2111.0	15°	2067.2	2013.1	1850.3	1630.3	1424.9	1336.6	1328.9	1345.5	1362.6	1370.9
2219.1	17.5°	2161.9	2085.6	1853.5	1541.3	1328.3	1292.1	1316.2	1351.8	1377.9	1389.3
2339.9	20°	2263.6	2159.4	1830.6	1415.4	1248.8	1255.8	1299.0	1344.8	1373.4	1388.1
2477.9	22.5°	2380.0	2238.2	1775.9	1283.1	1184.0	1216.4	1267.3	1311.8	1341.6	1356.3
2640.1	25°	2512.9	2326.6	1690.1	1171.9	1128.0	1171.9	1222.7	1259.6	1283.8	1297.1
2821.3	27.5°	2660.4	2418.8	1575.6	1083.5	1079.0	1126.1	1168.1	1196.7	1209.4	1219.6
3013.9	30°	2808.6	2502.7	1437.0	1016.7	1036.4	1080.9	1110.8	1123.5	1127.4	1129.3
3228.9	32.5°	2968.8	2575.2	1291.4	961.4	995.7	1037.1	1054.9	1060.6	1042.8	1030.7
3489.6	35°	3162.7	2652.8	1149.0	917.5	955.7	991.3	997.0	991.9	970.9	946.1
3816.4	37.5°	3402.4	2749.4	1035.2	886.4	918.2	941.7	934.7	933.4	935.3	906.1
4209.3	40°	3696.2	2875.3	951.9	862.2	887.6	892.7	873.0	883.8	893.4	848.9
4640.4	42.5°	4022.4	3027.3	899.1	845.7	862.2	850.1	819.6	831.7	830.4	771.9
5073.5	45°	4354.9	3192.6	880.7	833.6	838.7	814.5	780.8	784.0	757.3	704.5
5488.7	47.5°	4685.6	3370.0	892.1	823.4	809.4	782.1	756.0	742.0	702.6	663.2
5886.7	50°	5009.9	3556.3	934.1	803.1	769.4	753.5	734.4	709.6	667.6	633.9
6263.1	52.5°	5310.6	3743.9	981.1	769.4	719.1	728.7	716.6	688.0	646.7	612.3
6619.2	55°	5595.5	3931.5	999.6	723.0	672.1	707.1	700.1	647.3	597.7	569.7
6991.8	57.5°	5905.8	4157.2	979.2	663.8	633.9	682.3	655.6	597.1	568.5	547.5
7477.0	60°	6335.6	4511.4	935.3	590.7	597.7	645.4	599.6	575.4	544.3	520.8
8204.4	62.5°	7049.7	5172.0	864.8	518.2	555.1	590.7	572.9	548.7	516.9	494.1
9448.1	65°	8105.2	6090.2	731.9	461.6	507.4	537.3	544.3	520.1	487.1	462.9
10538.0	67.5°	8995.4	6666.3	553.8	414.6	458.4	494.1	513.8	490.2	455.3	431.7
10792.9	70°	8946.4	6247.9	422.8	368.2	415.2	451.5	476.9	458.4	420.9	398.7
9803.6	72.5°	7946.2	5226.7	342.1	321.1	371.3	406.9	437.5	423.5	385.3	363.7
7181.9	75°	5837.8	3710.2	273.4	273.4	316.7	360.5	394.2	385.3	350.4	335.1
3015.2	77.5°	2460.7	1556.6	214.3	227.0	263.2	309.7	351.6	354.8	324.3	343.4
797.4	80°	654.3	429.2	163.4	178.7	206.7	255.6	305.8	304.6	271.5	253.7
296.3	82.5°	249.3	169.1	116.4	125.9	149.4	195.8	242.3	249.9	216.8	187.6
116.4	85°	96.0	72.5	71.9	75.7	87.1	129.7	183.1	189.5	163.4	138.6
32.4	87.5°	24.8	21.6	26.7	25.4	40.1	69.3	104.9	108.7	99.8	57.9
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>
1756.9
1676.1
1553.4
1441.5
1374.1
1355.0
1370.3
1391.9
1391.9
1360.1
1301.0
1223.4
1133.7
1034.5
947.4
908.0
850.1
771.3
706.4
663.2
631.4
613.0
567.2
545.6
519.5
494.1
464.2
432.4
400.6
363.7
330.6
311.6
235.9
187.6
143.1
82.7
0.0

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