

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: P945371

Luminaire Tested: **GALN-SB1B-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5129 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

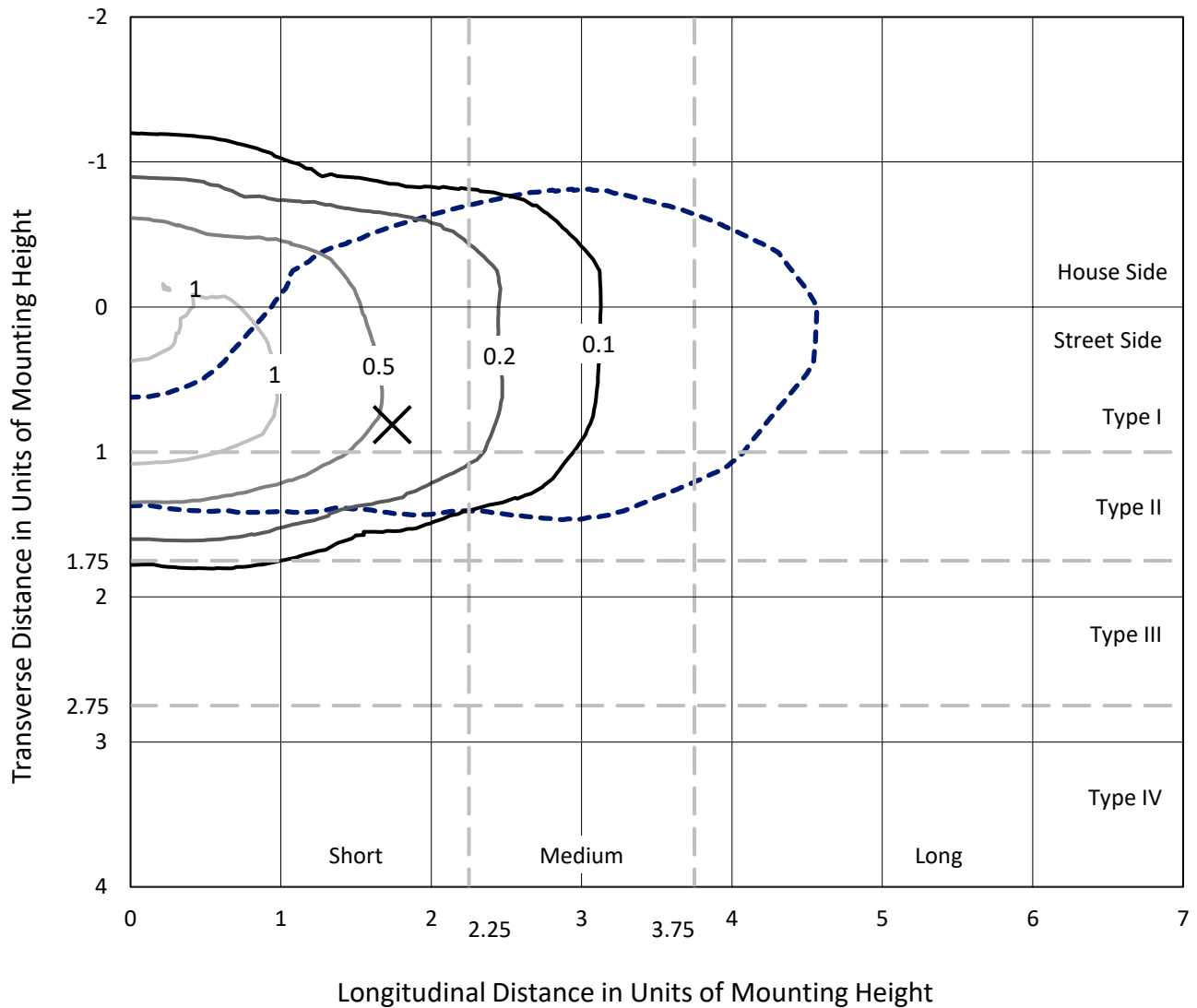
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

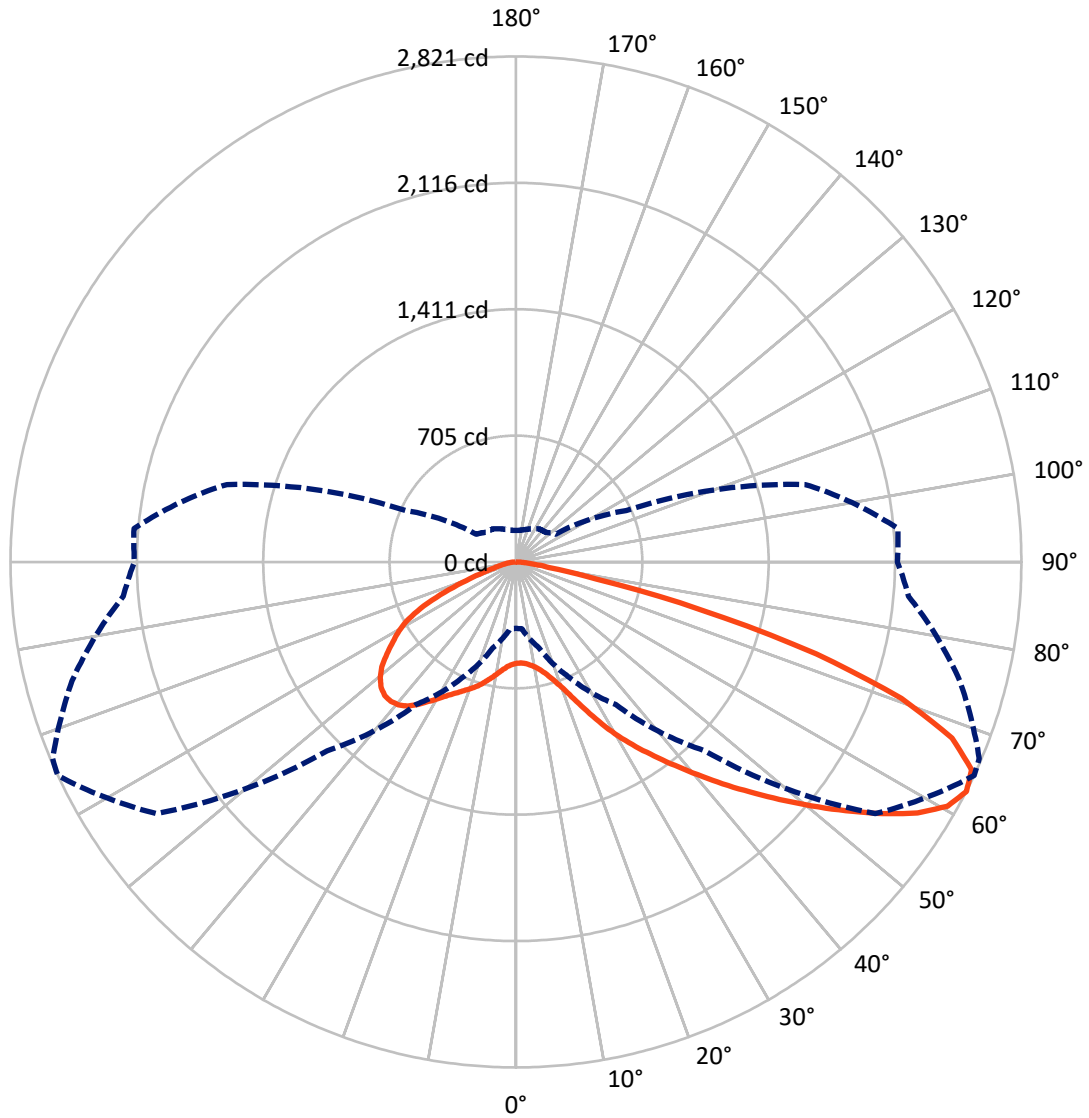
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1618.5	0.0	1618.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	3510.5	0.0	3510.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	5129.0	0.0	5129.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.1
10°-20°	191.1	3.7
20°-30°	387.4	7.6
30°-40°	670.5	13.1
40°-50°	1014.6	19.8
50°-60°	1189.6	23.2
60°-70°	997.3	19.4
70°-80°	550.6	10.7
80°-90°	71.5	1.4
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°	5129.0	100.0
0°-180°	5129.0	100.0



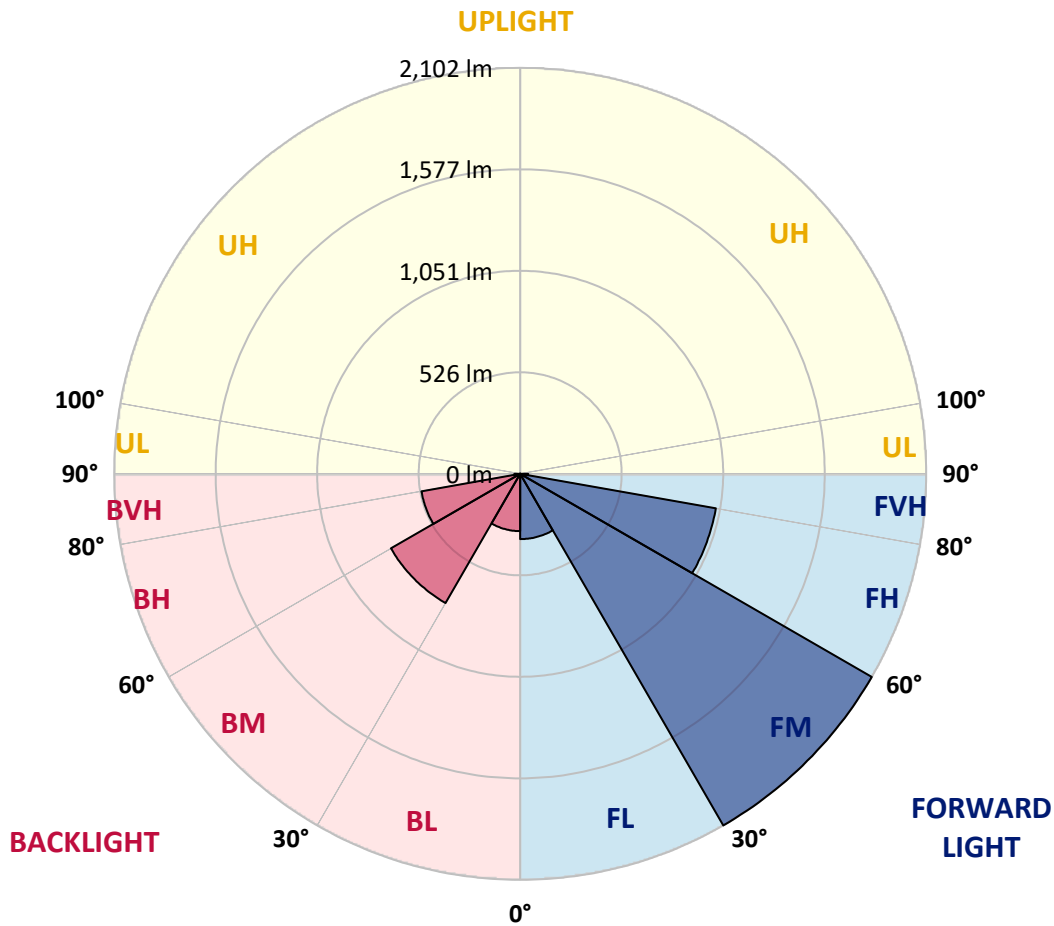
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.1	6.6			
FM (30°-60°)	2102.0	41.0			
FH (60°-80°)	1028.7	20.1			G1/1800
FVH (80°-90°)	41.7	0.8			G1/100
BL (0°-30°)	296.8	5.8	B1/500		
BM (30°-60°)	772.6	15.1	B1/1000		
BH (60°-80°)	519.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	29.8	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2
2.5°	561.5	559.9	561.2	561.2	561.7	561.5	563.3	563.9	564.7	566.3
5°	555.9	555.6	558.0	560.1	562.3	564.1	566.5	570.0	570.5	572.4
7.5°	554.0	552.4	556.1	558.8	563.9	568.4	574.8	580.6	583.0	583.8
10°	568.4	565.7	569.2	570.8	575.0	579.6	587.0	596.3	599.0	602.2
12.5°	592.9	589.9	595.0	597.4	601.4	605.4	610.4	619.5	620.8	626.7
15°	626.4	622.9	626.1	629.1	635.7	639.4	644.5	653.3	653.3	657.8
17.5°	671.9	667.4	669.8	670.8	675.1	680.7	689.2	696.9	700.9	699.3
20°	739.8	734.2	734.2	728.8	727.2	731.8	742.9	753.6	757.8	749.6
22.5°	841.7	833.7	829.2	811.1	803.9	804.4	815.6	828.6	832.1	817.5
25°	971.3	958.8	952.6	926.0	909.8	895.7	904.5	921.2	926.0	907.9
27.5°	1100.9	1101.6	1095.8	1063.9	1037.0	1011.2	1006.7	1024.2	1029.3	1008.8
30°	1282.6	1263.7	1252.5	1214.2	1175.9	1139.7	1121.1	1128.3	1129.6	1105.1
32.5°	1439.3	1434.5	1410.6	1377.1	1327.8	1271.2	1240.0	1228.6	1226.4	1191.6
35°	1617.9	1615.2	1589.9	1550.0	1496.8	1418.0	1361.9	1329.2	1326.5	1277.5
37.5°	1799.4	1799.4	1774.6	1731.0	1675.9	1577.4	1492.0	1440.1	1431.6	1367.7
40°	1944.1	1935.3	1939.9	1921.5	1858.4	1753.9	1636.5	1561.2	1549.8	1473.1
42.5°	2026.3	2023.4	2050.6	2071.0	2045.2	1961.7	1795.6	1692.4	1676.4	1589.1
45°	2044.7	2041.5	2089.9	2165.0	2201.2	2166.8	1968.6	1830.5	1811.1	1710.5
47.5°	2002.4	1996.0	2067.1	2185.5	2301.5	2361.9	2155.9	1980.3	1952.1	1828.6
50°	1875.2	1869.1	1976.6	2133.8	2335.3	2494.4	2359.2	2139.2	2096.1	1955.3
52.5°	1598.7	1601.6	1770.1	1986.2	2290.8	2576.9	2534.3	2306.5	2254.7	2084.9
55°	1245.3	1251.7	1458.8	1696.6	2113.1	2564.4	2653.8	2479.0	2427.4	2206.8
57.5°	891.7	919.9	1113.9	1349.4	1771.7	2366.1	2679.9	2642.9	2592.9	2339.8
60°	578.0	583.0	782.6	1020.0	1349.1	2013.8	2626.9	2767.2	2728.0	2475.5
62.5°	370.4	373.9	495.5	713.4	971.0	1489.9	2448.6	2821.2	2809.2	2565.2
65°	272.2	269.6	332.9	471.5	654.1	918.8	2102.4	2795.1	2818.8	2621.3
67.5°	227.2	223.5	254.7	326.5	481.9	521.8	1555.6	2625.6	2712.3	2615.0
70°	207.0	203.8	222.7	242.4	376.0	349.4	784.2	2282.6	2416.2	2542.3
72.5°	175.4	169.8	195.6	215.3	292.4	268.0	324.1	1753.3	1916.2	2309.5
75°	136.0	132.3	154.3	189.5	219.8	209.2	204.9	1064.7	1242.4	1786.1
77.5°	107.8	102.7	122.9	147.7	197.7	157.8	149.3	458.5	634.6	1140.2
80°	81.2	76.6	93.4	116.8	151.9	118.9	96.6	187.1	239.2	577.7
82.5°	57.7	53.8	65.2	85.7	102.2	106.7	59.3	104.8	117.9	222.7
85°	37.0	34.6	43.6	53.8	64.9	68.7	36.2	54.8	60.1	91.8
87.5°	20.2	16.5	23.4	25.0	30.1	27.4	17.3	20.0	21.6	33.3
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°
565.2	0°	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2
566.3	2.5°	567.3	568.1	570.8	571.6	573.4	575.8	577.4	579.0	579.0	580.6
574.8	5°	575.0	576.9	582.5	585.4	590.2	595.0	597.9	601.4	603.5	604.6
588.3	7.5°	589.9	592.9	600.9	605.9	614.2	620.8	625.3	630.1	631.2	634.1
607.2	10°	610.2	613.6	622.7	632.3	642.1	650.3	654.6	658.1	659.4	659.9
631.5	12.5°	633.3	638.4	650.1	661.8	672.2	679.3	680.4	679.6	675.9	672.7
661.3	15°	661.8	666.3	679.3	692.1	702.2	703.6	696.9	692.7	688.1	687.3
694.5	17.5°	695.8	698.2	710.2	722.7	723.5	719.0	709.2	705.2	700.9	698.0
737.9	20°	735.5	734.7	743.2	748.5	742.9	729.1	714.2	707.6	703.3	699.8
791.1	22.5°	782.9	776.7	775.7	774.3	759.4	730.4	710.2	701.7	695.0	690.3
865.4	25°	851.8	828.4	812.1	803.1	769.6	723.3	697.4	678.6	666.0	657.8
956.1	27.5°	938.0	898.6	857.6	835.5	769.6	708.6	666.6	636.0	615.5	607.0
1043.9	30°	1020.2	979.0	918.6	874.7	767.7	684.7	616.8	574.2	550.3	541.8
1118.9	32.5°	1090.5	1045.5	983.2	917.5	763.2	645.8	555.1	508.0	484.8	474.7
1193.2	35°	1155.7	1107.8	1048.2	964.6	751.2	588.9	487.2	451.3	425.5	409.3
1268.8	37.5°	1222.5	1165.5	1109.6	1007.2	729.6	522.4	435.1	404.5	374.1	352.3
1349.1	40°	1295.1	1227.0	1175.4	1032.5	694.3	459.0	394.6	366.7	334.5	311.3
1441.7	42.5°	1380.0	1300.7	1248.5	1045.5	645.8	414.0	368.3	340.9	310.5	291.6
1541.0	45°	1468.6	1381.9	1315.3	1045.2	591.8	393.0	359.8	332.6	299.1	279.4
1642.9	47.5°	1561.5	1466.7	1373.1	1028.2	545.0	396.0	355.0	314.8	277.8	258.6
1745.9	50°	1654.6	1559.6	1428.9	996.3	525.0	389.6	337.1	289.8	246.1	228.8
1842.5	52.5°	1746.9	1658.3	1477.1	950.8	504.8	365.9	314.3	257.3	233.1	221.1
1942.3	55°	1839.8	1756.0	1529.5	884.5	454.2	338.2	275.9	245.1	222.7	211.8
2039.9	57.5°	1932.9	1868.8	1579.3	818.3	390.6	304.2	254.9	230.2	212.3	203.0
2121.6	60°	2029.8	1997.9	1630.7	757.3	327.8	260.5	239.5	218.2	200.1	189.7
2200.1	62.5°	2129.6	2140.0	1670.8	678.8	270.1	233.9	225.7	203.8	186.3	176.4
2265.0	65°	2230.2	2277.0	1697.2	570.0	219.0	208.6	210.8	188.1	170.3	161.8
2312.7	67.5°	2306.0	2375.7	1689.7	431.3	179.6	184.7	192.1	171.6	154.9	148.2
2304.9	70°	2314.5	2364.0	1616.3	295.4	150.3	161.3	171.4	155.4	138.1	133.3
2196.4	72.5°	2201.2	2204.4	1411.7	192.9	127.2	141.6	149.5	138.9	122.1	117.3
1921.5	75°	1903.9	1823.0	1036.5	127.2	106.4	121.6	129.1	121.6	105.4	106.4
1437.7	77.5°	1442.5	1291.1	629.3	90.5	88.9	102.2	112.3	107.0	93.1	104.6
723.0	80°	743.2	698.5	280.7	67.6	70.3	81.7	92.3	85.4	73.7	70.3
161.5	82.5°	170.3	198.0	110.7	48.4	50.8	58.8	70.5	64.1	53.0	44.7
67.3	85°	59.6	65.2	49.0	30.3	29.8	36.7	47.9	42.8	35.9	28.7
28.5	87.5°	18.9	24.7	18.4	12.2	12.8	16.5	22.1	20.2	16.8	10.9
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>
565.2
580.6
605.1
633.0
658.6
672.7
687.3
698.2
700.1
691.9
661.0
611.2
546.8
479.8
414.6
358.2
315.9
295.4
282.6
261.3
229.9
221.1
210.8
201.4
188.9
176.2
161.5
148.5
133.6
117.1
102.7
92.1
64.1
44.2
30.3
11.4
0.0

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