

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: P946516

Luminaire Tested: **GALN-SB2A-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5427 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

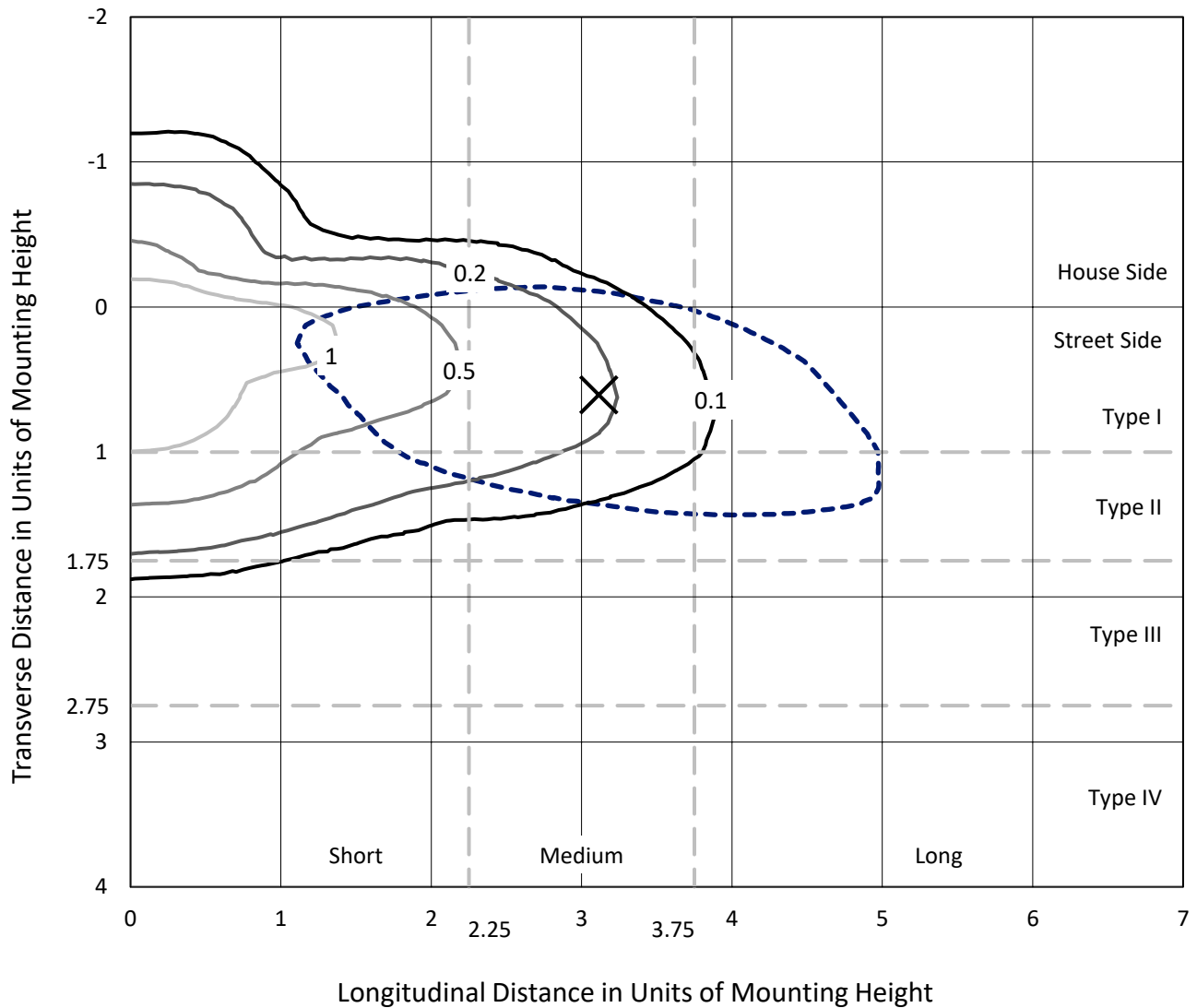
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

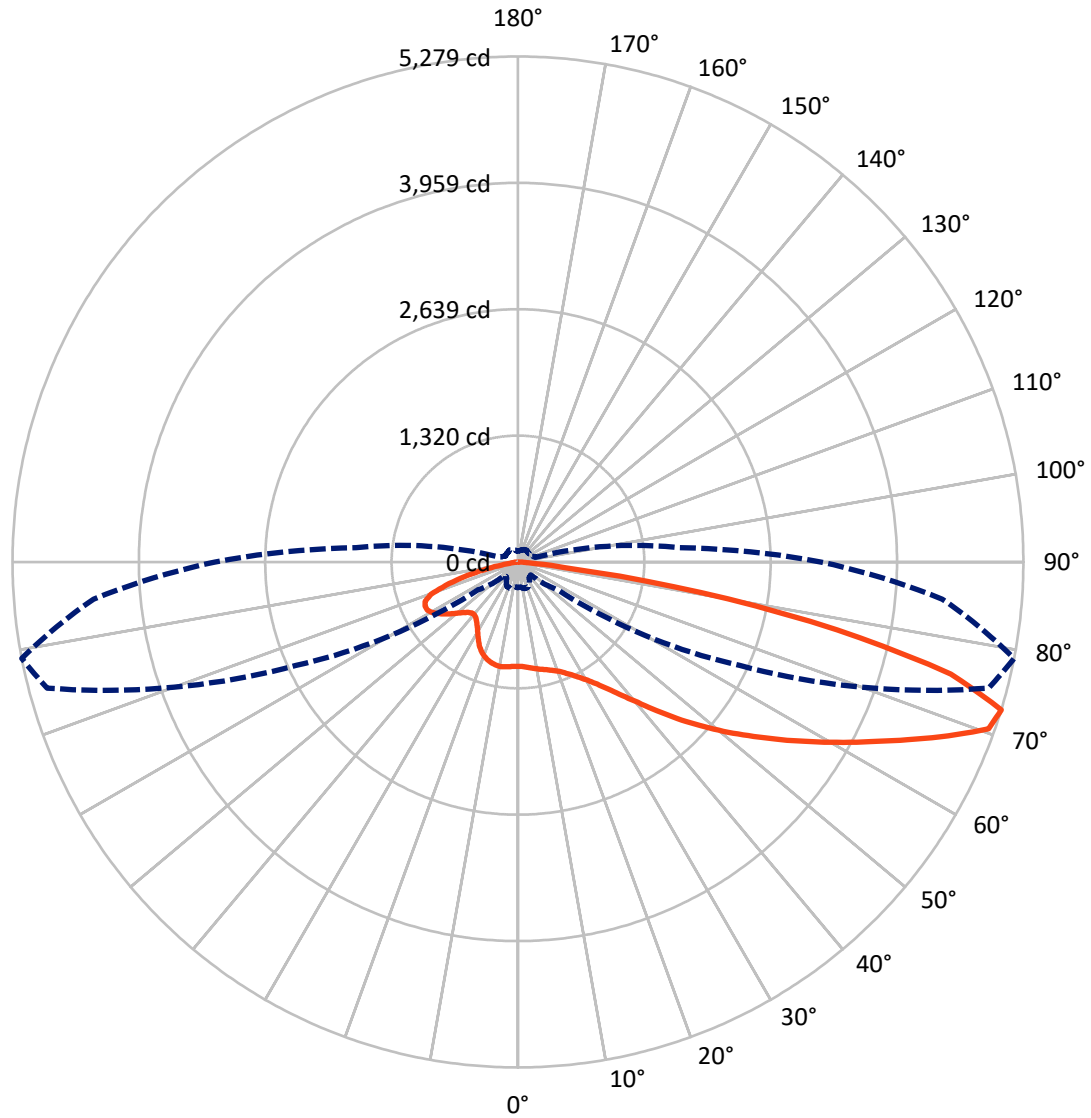
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1194.2	0.0	1194.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4232.8	0.0	4232.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	5427.0	0.0	5427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.8
10°-20°	258.5	4.8
20°-30°	417.2	7.7
30°-40°	626.1	11.5
40°-50°	888.2	16.4
50°-60°	1121.7	20.7
60°-70°	1139.2	21.0
70°-80°	776.4	14.3
80°-90°	100.7	1.9
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°	5427.0	100.0
0°-180°	5427.0	100.0

Coefficient of Utilization

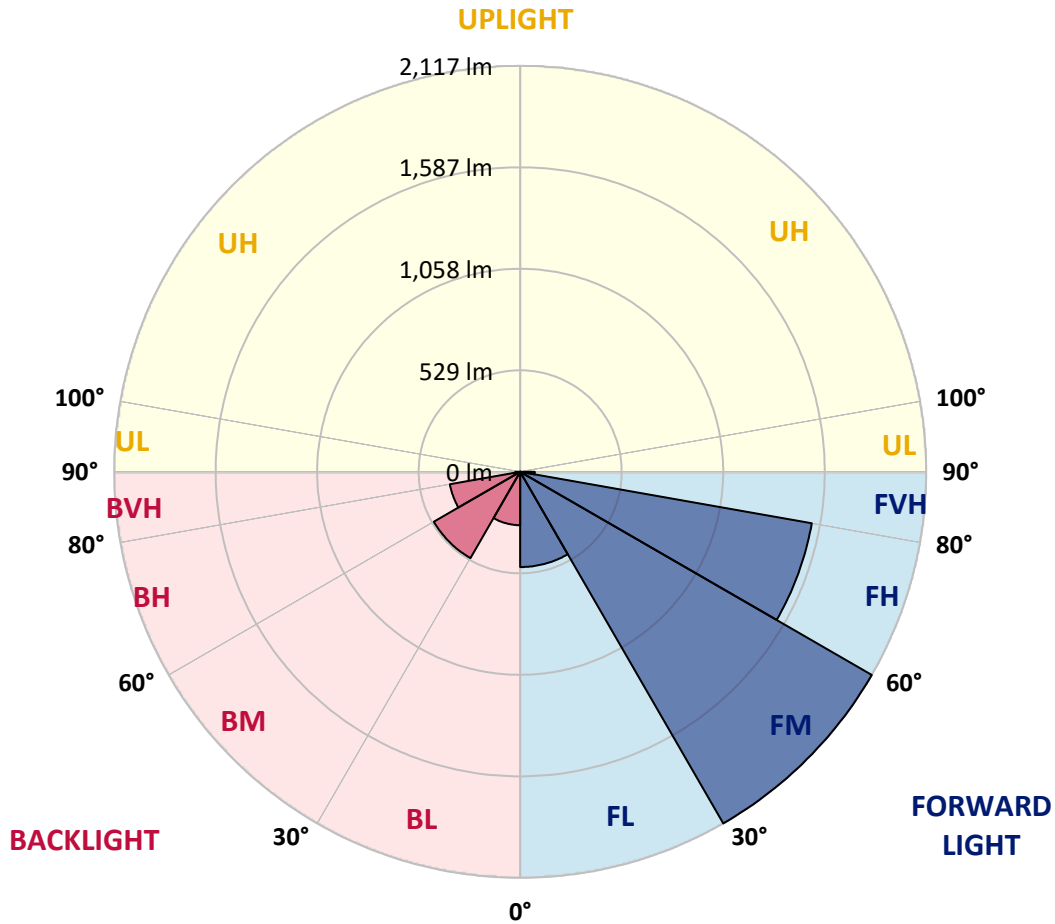


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.4	9.1			
FM (30°-60°)	2116.6	39.0			
FH (60°-80°)	1543.8	28.4			G1/1800
FVH (80°-90°)	75.9	1.4			G1/100
BL (0°-30°)	278.2	5.1	B1/500		
BM (30°-60°)	519.4	9.6	B1/1000		
BH (60°-80°)	371.9	6.9	B1/500		G1/500
BVH (80°-90°)	24.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4
2.5°	1090.0	1084.8	1088.0	1086.8	1088.3	1090.0	1090.6	1091.4	1094.3	1094.0
5°	1087.7	1082.5	1086.8	1085.4	1089.1	1093.2	1096.6	1099.8	1104.3	1106.4
7.5°	1082.8	1079.4	1083.7	1088.0	1094.9	1100.9	1105.8	1113.0	1119.6	1120.7
10°	1054.4	1051.8	1061.9	1073.1	1092.0	1108.4	1119.0	1127.3	1134.5	1135.6
12.5°	1024.8	1021.7	1032.9	1048.1	1078.8	1108.4	1130.8	1141.7	1148.0	1151.7
15°	1019.9	1017.4	1023.7	1036.9	1062.4	1100.6	1138.8	1158.9	1164.3	1168.6
17.5°	1043.5	1038.6	1041.2	1045.8	1060.7	1093.4	1145.1	1178.4	1186.7	1191.3
20°	1098.0	1091.1	1087.1	1077.9	1075.4	1094.6	1144.5	1201.9	1212.9	1218.6
22.5°	1170.7	1166.1	1157.5	1134.2	1108.9	1108.7	1155.4	1232.1	1252.5	1257.9
25°	1258.5	1251.6	1240.7	1209.1	1160.6	1136.5	1173.8	1270.6	1304.7	1306.2
27.5°	1359.5	1349.2	1334.3	1292.7	1227.2	1180.1	1201.9	1314.8	1364.7	1364.1
30°	1466.1	1455.7	1439.9	1389.4	1307.0	1239.0	1241.0	1362.4	1435.9	1432.8
32.5°	1543.8	1536.1	1532.9	1493.9	1398.9	1308.5	1285.8	1415.2	1523.8	1520.9
35°	1603.6	1593.5	1597.2	1577.4	1499.1	1386.2	1340.6	1478.1	1630.5	1630.3
37.5°	1662.7	1653.8	1656.9	1643.7	1591.8	1485.0	1407.5	1555.0	1762.9	1769.2
40°	1716.7	1707.2	1719.8	1707.5	1663.8	1590.1	1483.6	1642.0	1916.2	1928.2
42.5°	1749.1	1741.6	1762.6	1762.9	1726.4	1678.8	1567.1	1737.9	2093.6	2120.6
45°	1760.3	1757.7	1789.3	1795.9	1781.8	1730.2	1642.3	1842.4	2284.8	2333.0
47.5°	1748.2	1743.4	1787.0	1811.4	1822.6	1754.3	1704.6	1955.5	2480.0	2550.6
50°	1687.4	1677.9	1742.8	1794.2	1834.1	1770.1	1767.5	2086.1	2701.9	2779.1
52.5°	1578.0	1570.8	1644.6	1733.9	1808.8	1777.8	1838.1	2228.8	2912.6	3012.5
55°	1438.2	1428.7	1510.0	1626.5	1745.9	1775.2	1908.7	2388.4	3161.2	3262.5
57.5°	1216.6	1197.6	1300.4	1438.2	1643.5	1772.1	1982.2	2547.1	3413.8	3535.2
60°	893.4	865.2	991.2	1154.6	1443.1	1741.3	2073.2	2725.1	3716.9	3826.3
62.5°	520.2	503.8	586.2	738.6	1087.7	1560.5	2124.3	2932.1	4014.9	4129.7
65°	403.9	399.3	406.5	418.3	605.4	1168.4	1966.7	3133.9	4393.8	4474.2
67.5°	369.5	366.0	369.2	347.1	307.2	650.8	1555.9	3185.0	4799.8	4848.6
70°	328.4	324.4	334.7	315.8	241.7	296.0	1005.3	2999.6	5122.7	5214.3
72.5°	267.5	263.0	287.1	278.5	203.5	190.0	505.0	2558.9	5088.8	5278.9
75°	205.5	203.0	231.7	238.8	165.9	149.6	242.3	1902.1	4478.2	4669.7
77.5°	159.6	157.6	172.2	198.4	133.8	116.0	149.0	1206.5	3374.8	3408.3
80°	119.7	114.0	127.5	153.6	104.2	84.7	101.0	703.6	2133.2	1933.7
82.5°	74.9	72.1	83.2	102.5	73.5	58.3	65.7	388.7	854.9	503.5
85°	42.8	41.6	45.4	58.6	39.9	33.6	37.6	171.7	156.2	107.4
87.5°	17.2	16.6	20.7	26.1	14.6	12.3	13.2	41.3	34.4	31.9
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°
1089.4	0°	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4
1093.7	2.5°	1092.6	1092.6	1088.6	1082.2	1075.1	1070.5	1063.0	1061.0	1053.2	1051.0
1103.5	5°	1105.8	1103.5	1091.1	1073.3	1048.9	1026.6	1001.9	986.4	964.5	956.8
1122.7	7.5°	1122.4	1116.1	1094.9	1055.8	1004.7	954.5	902.3	862.6	824.7	811.3
1138.5	10°	1137.6	1128.7	1092.6	1024.3	935.8	848.9	765.6	707.3	663.1	645.0
1156.0	12.5°	1152.9	1136.5	1077.4	971.7	837.9	720.0	631.3	585.9	558.6	536.8
1170.4	15°	1167.2	1144.2	1053.8	901.4	730.6	610.9	545.4	509.3	487.4	473.1
1191.3	17.5°	1183.9	1150.9	1018.5	812.1	628.4	535.4	482.0	460.2	455.9	454.1
1220.0	20°	1207.1	1156.9	972.0	712.2	553.2	475.1	447.5	445.5	445.2	444.4
1254.5	22.5°	1232.1	1164.1	910.6	621.5	489.2	437.5	432.6	428.6	426.0	425.7
1296.1	25°	1261.7	1166.4	833.6	547.1	434.6	419.7	414.0	407.9	406.2	406.2
1343.5	27.5°	1290.4	1158.6	744.1	482.6	403.9	403.3	395.9	393.9	393.6	394.4
1397.4	30°	1319.1	1144.0	655.1	422.8	386.1	386.1	383.5	385.0	386.1	389.0
1471.5	32.5°	1357.8	1128.5	580.7	378.6	370.6	367.7	370.3	373.2	374.3	378.1
1568.8	35°	1414.7	1117.6	521.6	354.5	354.5	350.8	352.2	351.7	349.1	347.4
1686.5	37.5°	1489.9	1117.0	472.8	343.3	341.0	340.5	340.7	337.0	327.0	314.9
1828.9	40°	1580.3	1132.5	435.2	335.6	333.9	337.3	335.6	325.5	298.0	277.0
2004.0	42.5°	1701.7	1176.7	411.1	326.1	331.3	335.6	328.7	294.0	275.3	261.2
2203.5	45°	1844.7	1248.5	398.7	316.1	326.4	331.6	298.3	283.0	268.1	251.2
2421.1	47.5°	2006.6	1338.9	395.9	306.6	315.5	318.6	285.3	278.5	261.5	243.1
2639.9	50°	2182.9	1446.0	403.6	295.4	299.7	288.8	281.0	274.7	257.2	239.1
2864.1	52.5°	2365.1	1563.9	419.1	280.2	283.9	271.9	279.3	273.9	254.6	230.2
3095.7	55°	2544.3	1682.8	434.0	262.4	267.8	256.6	274.4	270.4	242.9	215.3
3342.9	57.5°	2726.3	1801.1	448.7	246.6	252.3	242.0	266.7	261.2	229.7	201.5
3612.7	60°	2915.5	1915.9	455.6	231.4	235.4	228.5	254.9	245.4	214.7	187.5
3878.0	62.5°	3092.6	2011.5	444.4	216.2	218.7	215.9	239.4	226.8	199.8	171.7
4154.4	65°	3270.3	2068.3	409.9	201.2	201.8	200.4	217.6	206.7	182.3	157.9
4396.4	67.5°	3431.3	2100.2	355.1	185.2	183.7	183.1	197.2	184.9	165.4	144.1
4580.4	70°	3465.5	2019.2	271.3	166.2	166.2	164.8	174.8	162.2	146.7	129.5
4448.7	72.5°	3165.2	1698.6	192.6	144.7	147.0	144.1	152.4	141.8	127.7	116.3
3834.1	75°	2552.3	1245.6	140.1	122.6	126.6	121.7	129.5	122.0	109.9	109.7
2642.2	77.5°	1753.7	770.2	101.6	101.0	103.9	97.6	106.5	102.5	91.6	86.7
1150.0	80°	748.4	307.2	74.1	78.1	78.1	72.3	82.7	83.8	74.4	72.1
221.9	82.5°	149.0	87.3	52.0	53.7	50.5	48.8	58.6	64.9	89.6	99.6
66.9	85°	44.8	32.2	31.3	29.3	25.8	26.1	34.4	65.2	80.4	45.9
22.1	87.5°	12.3	8.0	8.3	6.6	5.5	7.2	11.8	49.4	27.0	11.5
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>
1089.4
1054.7
962.5
813.0
649.1
544.0
475.7
455.3
447.3
428.9
407.9
396.7
391.0
381.2
351.4
315.2
276.4
260.7
250.0
241.7
237.1
228.5
213.9
200.9
186.6
171.4
156.2
142.4
128.9
<i>112.8</i>
98.8
81.2
72.1
99.9
39.6
9.8
0.0

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