

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: P945865

Luminaire Tested: **GALN-SB1C-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945865
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-SB1C-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5396 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

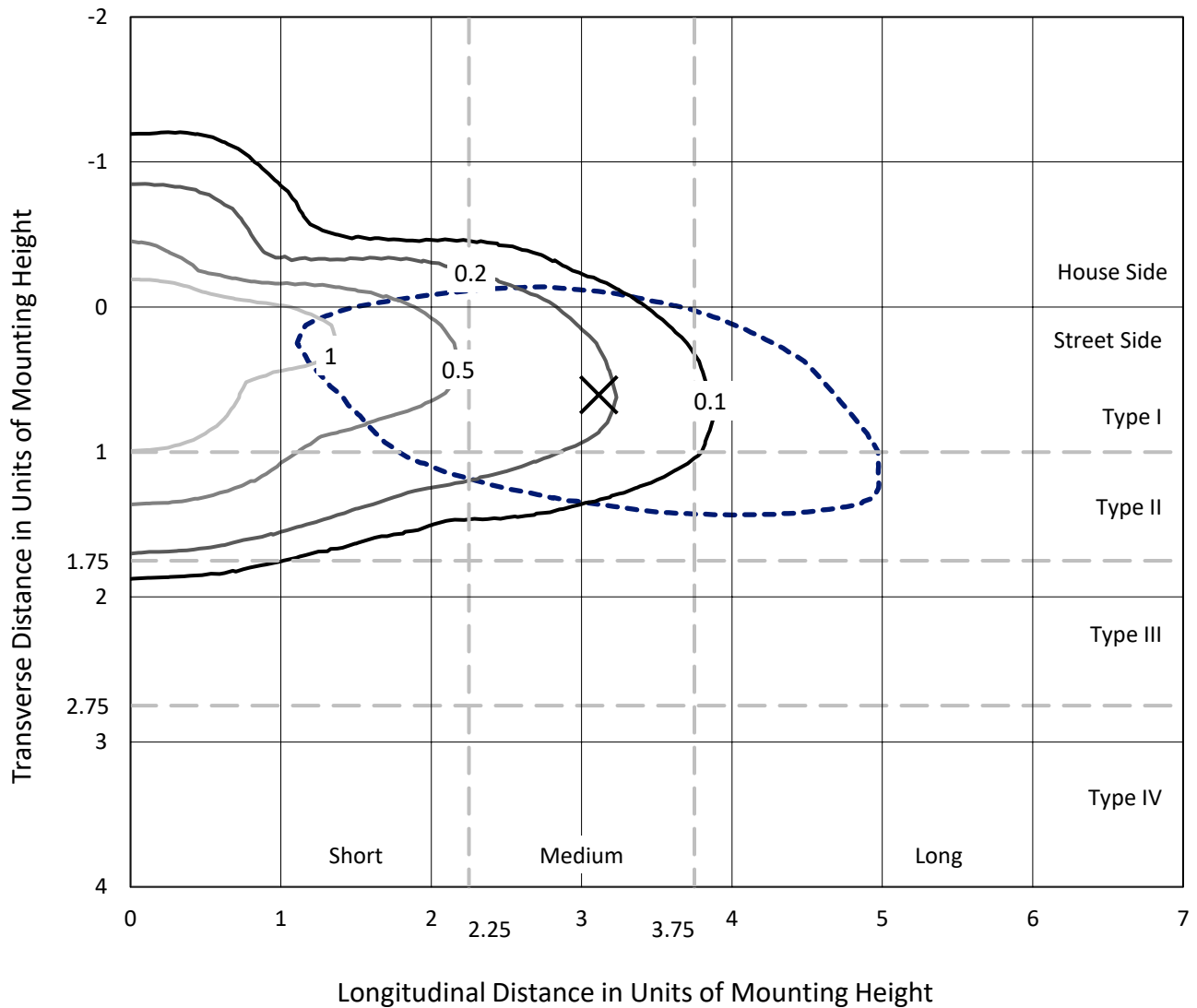
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

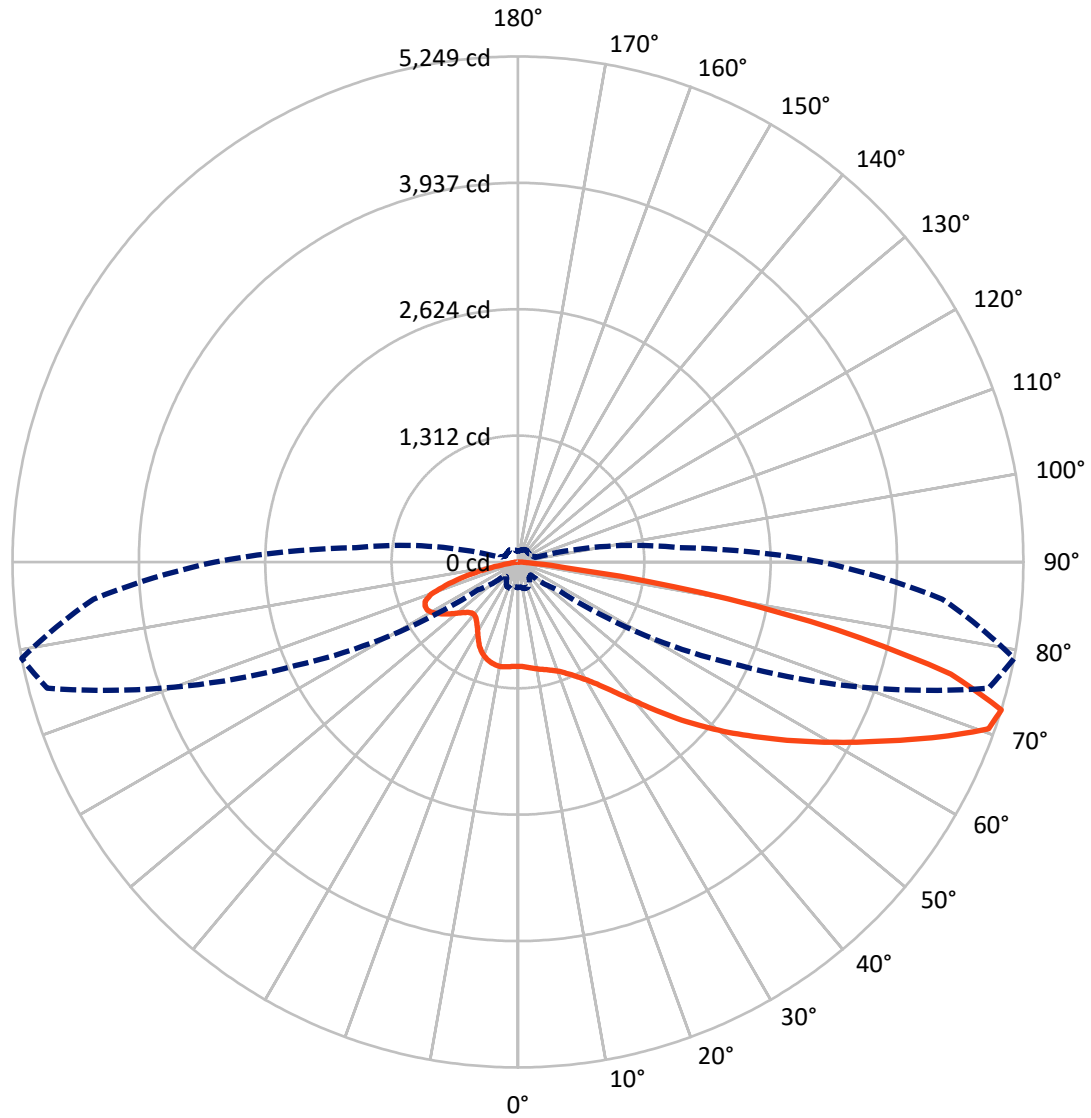
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1187.4	0.0	1187.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4208.6	0.0	4208.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	5396.0	0.0	5396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.8
10°-20°	257.1	4.8
20°-30°	414.8	7.7
30°-40°	622.6	11.5
40°-50°	883.1	16.4
50°-60°	1115.3	20.7
60°-70°	1132.7	21.0
70°-80°	772.0	14.3
80°-90°	100.2	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°	5396.0	100.0
0°-180°	5396.0	100.0

Coefficient of Utilization

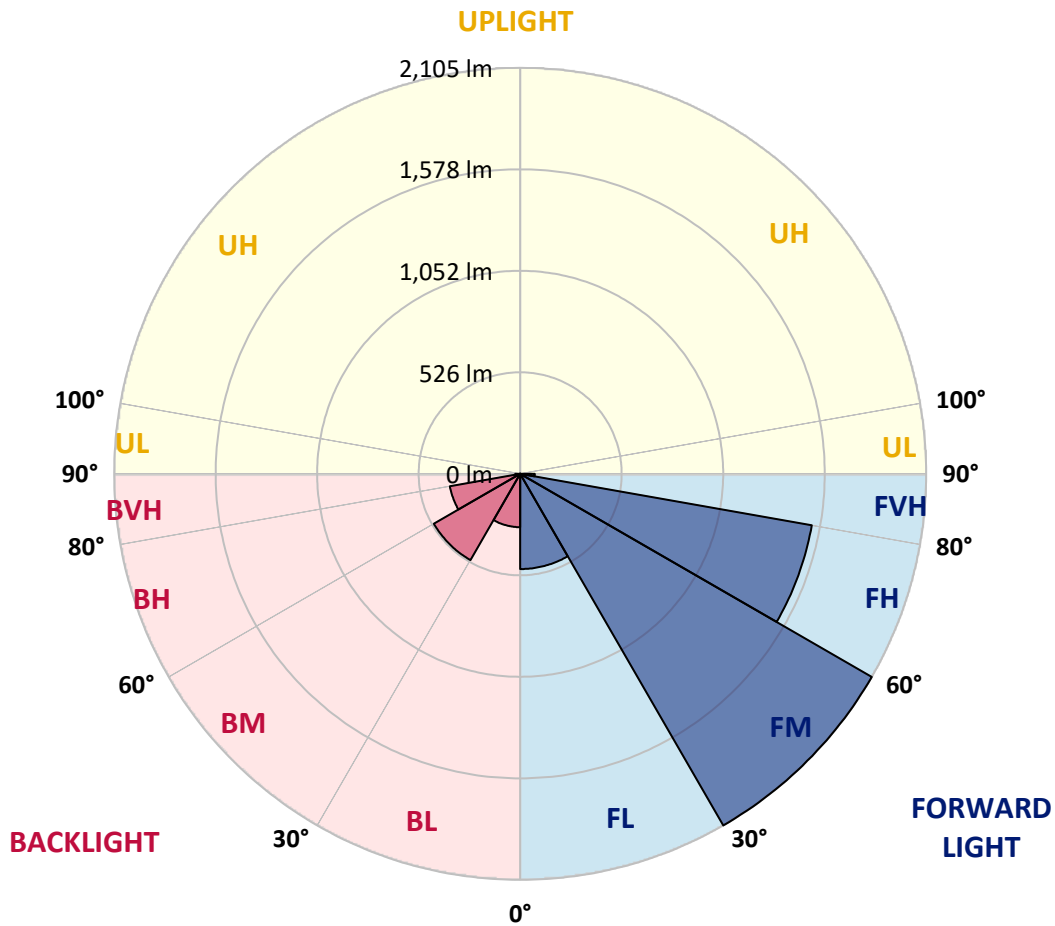


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.6	9.1			
FM (30°-60°)	2104.5	39.0			
FH (60°-80°)	1535.0	28.4			G1/1800
FVH (80°-90°)	75.5	1.4			G1/100
BL (0°-30°)	276.6	5.1	B1/500		
BM (30°-60°)	516.4	9.6	B1/1000		
BH (60°-80°)	369.7	6.9	B1/500		G1/500
BVH (80°-90°)	24.7	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°	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2
2.5°	1083.8	1078.6	1081.8	1080.6	1082.1	1083.8	1084.3	1085.2	1088.0	1087.8
5°	1081.5	1076.3	1080.6	1079.2	1082.9	1086.9	1090.3	1093.5	1098.0	1100.0
7.5°	1076.6	1073.2	1077.5	1081.8	1088.6	1094.6	1099.5	1106.6	1113.2	1114.3
10°	1048.4	1045.8	1055.8	1066.9	1085.8	1102.0	1112.6	1120.9	1128.0	1129.1
12.5°	1019.0	1015.8	1027.0	1042.1	1072.6	1102.0	1124.3	1135.1	1141.4	1145.1
15°	1014.1	1011.6	1017.8	1031.0	1056.4	1094.3	1132.3	1152.3	1157.7	1162.0
17.5°	1037.5	1032.7	1035.2	1039.8	1054.7	1087.2	1138.6	1171.7	1180.0	1184.5
20°	1091.8	1084.9	1080.9	1071.8	1069.2	1088.3	1138.0	1195.1	1205.9	1211.6
22.5°	1164.0	1159.4	1150.8	1127.7	1102.6	1102.3	1148.8	1225.1	1245.3	1250.7
25°	1251.3	1244.5	1233.6	1202.2	1154.0	1130.0	1167.1	1263.3	1297.3	1298.7
27.5°	1351.8	1341.5	1326.7	1285.3	1220.2	1173.4	1195.1	1307.3	1356.9	1356.3
30°	1457.7	1447.4	1431.7	1381.5	1299.5	1231.9	1233.9	1354.6	1427.7	1424.6
32.5°	1535.0	1527.3	1524.2	1485.4	1390.9	1301.0	1278.4	1407.2	1515.0	1512.2
35°	1594.4	1584.4	1588.1	1568.4	1490.5	1378.3	1332.9	1469.7	1621.2	1620.9
37.5°	1653.2	1644.3	1647.5	1634.4	1582.7	1476.5	1399.4	1546.2	1752.8	1759.1
40°	1706.9	1697.4	1710.0	1697.7	1654.3	1581.0	1475.1	1632.6	1905.2	1917.2
42.5°	1739.1	1731.7	1752.5	1752.8	1716.6	1669.2	1558.1	1728.0	2081.6	2108.4
45°	1750.2	1747.7	1779.1	1785.6	1771.6	1720.3	1632.9	1831.9	2271.7	2319.7
47.5°	1738.3	1733.4	1776.8	1801.0	1812.2	1744.2	1694.9	1944.3	2465.8	2536.0
50°	1677.7	1668.3	1732.8	1783.9	1823.6	1759.9	1757.4	2074.2	2686.4	2763.2
52.5°	1569.0	1561.9	1635.2	1724.0	1798.5	1767.6	1827.6	2216.1	2895.9	2995.3
55°	1430.0	1420.6	1501.3	1617.2	1736.0	1765.1	1897.8	2374.8	3143.1	3243.9
57.5°	1209.6	1190.8	1293.0	1430.0	1634.1	1761.9	1970.9	2532.6	3394.3	3515.0
60°	888.2	860.3	985.6	1148.0	1434.8	1731.4	2061.4	2709.6	3695.7	3804.5
62.5°	517.2	500.9	582.8	734.4	1081.5	1551.6	2112.2	2915.4	3992.0	4106.2
65°	401.6	397.0	404.2	415.9	602.0	1161.7	1955.5	3116.0	4368.7	4448.7
67.5°	367.3	363.9	367.1	345.1	305.4	647.1	1547.0	3166.8	4772.3	4820.9
70°	326.5	322.5	332.8	314.0	240.3	294.3	999.6	2982.4	5093.4	5184.5
72.5°	266.0	261.5	285.4	276.9	202.4	189.0	502.1	2544.3	5059.8	5248.7
75°	204.4	201.8	230.3	237.5	165.0	148.7	240.9	1891.2	4452.7	4643.0
77.5°	158.7	156.7	171.3	197.2	133.0	115.3	148.1	1199.6	3355.5	3388.9
80°	119.0	113.3	126.7	152.7	103.6	84.2	100.5	699.6	2121.0	1922.6
82.5°	74.5	71.6	82.8	101.9	73.1	57.9	65.4	386.5	850.0	500.6
85°	42.5	41.4	45.1	58.2	39.7	33.4	37.4	170.7	155.3	106.7
87.5°	17.1	16.6	20.6	26.0	14.6	12.3	13.1	41.1	34.3	31.7
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°
1083.2	0°	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2	1083.2
1087.5	2.5°	1086.3	1086.3	1082.3	1076.1	1068.9	1064.4	1056.9	1054.9	1047.2	1044.9
1097.2	5°	1099.5	1097.2	1084.9	1067.2	1043.0	1020.7	996.1	980.7	959.0	951.3
1116.3	7.5°	1116.0	1109.7	1088.6	1049.8	999.0	949.0	897.1	857.7	820.0	806.6
1132.0	10°	1131.1	1122.3	1086.3	1018.4	930.5	844.0	761.2	703.3	659.3	641.4
1149.4	12.5°	1146.3	1130.0	1071.2	966.2	833.2	715.9	627.7	582.6	555.4	533.7
1163.7	15°	1160.5	1137.7	1047.8	896.2	726.4	607.4	542.3	506.3	484.7	470.4
1184.5	17.5°	1177.1	1144.3	1012.7	807.5	624.8	532.3	479.2	457.5	453.3	451.5
1213.1	20°	1200.2	1150.3	966.5	708.1	550.0	472.4	445.0	443.0	442.7	441.8
1247.3	22.5°	1225.1	1157.4	905.4	617.9	486.4	435.0	430.1	426.1	423.6	423.3
1288.7	25°	1254.5	1159.7	828.9	544.0	432.1	417.3	411.6	405.6	403.9	403.9
1335.8	27.5°	1283.0	1152.0	739.8	479.8	401.6	401.0	393.6	391.6	391.3	392.2
1389.5	30°	1311.5	1137.4	651.3	420.4	383.9	383.9	381.3	382.8	383.9	386.8
1463.1	32.5°	1350.1	1122.0	577.4	376.5	368.5	365.6	368.2	371.1	372.2	375.9
1559.9	35°	1406.6	1111.2	518.6	352.5	352.5	348.8	350.2	349.6	347.1	345.4
1676.9	37.5°	1481.4	1110.6	470.1	341.4	339.1	338.5	338.8	335.1	325.1	313.1
1818.5	40°	1571.3	1126.0	432.7	333.7	332.0	335.4	333.7	323.7	296.3	275.4
1992.6	42.5°	1692.0	1170.0	408.7	324.2	329.4	333.7	326.8	292.3	273.7	259.7
2190.9	45°	1834.2	1241.3	396.5	314.3	324.5	329.7	296.6	281.4	266.6	249.7
2407.3	47.5°	1995.1	1331.2	393.6	304.8	313.7	316.8	283.7	276.9	260.0	241.8
2624.8	50°	2170.4	1437.7	401.3	293.7	298.0	287.1	279.4	273.2	255.7	237.8
2847.7	52.5°	2351.6	1555.0	416.7	278.6	282.3	270.3	277.7	272.3	253.2	228.9
3078.0	55°	2529.7	1673.2	431.6	260.9	266.3	255.2	272.9	268.9	241.5	214.1
3323.8	57.5°	2710.7	1790.8	446.1	245.2	250.9	240.6	265.2	259.7	228.3	200.4
3592.1	60°	2898.8	1904.9	453.0	230.1	234.1	227.2	253.5	244.0	213.5	186.4
3855.8	62.5°	3074.9	2000.0	441.8	214.9	217.5	214.6	238.0	225.5	198.7	170.7
4130.7	65°	3251.6	2056.5	407.6	200.1	200.7	199.2	216.4	205.5	181.2	157.0
4371.3	67.5°	3411.7	2088.2	353.1	184.1	182.7	182.1	196.1	183.8	164.4	143.3
4554.3	70°	3445.7	2007.7	269.7	165.3	165.3	163.8	173.8	161.3	145.9	128.7
4423.3	72.5°	3147.1	1688.9	191.5	143.9	146.1	143.3	151.6	141.0	127.0	115.6
3812.2	75°	2537.7	1238.5	139.3	121.9	125.9	121.0	128.7	121.3	109.3	109.0
2627.1	77.5°	1743.7	765.8	101.0	100.5	103.3	97.0	105.9	101.9	91.1	86.2
1143.4	80°	744.1	305.4	73.6	77.6	77.6	71.9	82.2	83.3	73.9	71.6
220.6	82.5°	148.1	86.8	51.7	53.4	50.2	48.5	58.2	64.5	89.1	99.0
66.5	85°	44.5	32.0	31.1	29.1	25.7	26.0	34.3	64.8	79.9	45.7
22.0	87.5°	12.3	8.0	8.3	6.6	5.4	7.1	11.7	49.1	26.8	11.4
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

180°
1083.2
1048.7
957.0
808.3
645.4
540.9
473.0
452.7
444.7
426.4
405.6
394.5
388.8
379.0
349.4
313.4
274.9
259.2
248.6
240.3
235.8
227.2
212.6
199.8
185.5
170.4
155.3
141.6
128.2
112.2
98.2
80.8
71.6
99.3
39.4
9.7
0.0

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