

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: P945424

Luminaire Tested: **GALN-SB1B-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945424
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-SB1B-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5355 lumens
Efficiency: N/A
Efficacy: 134.5 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

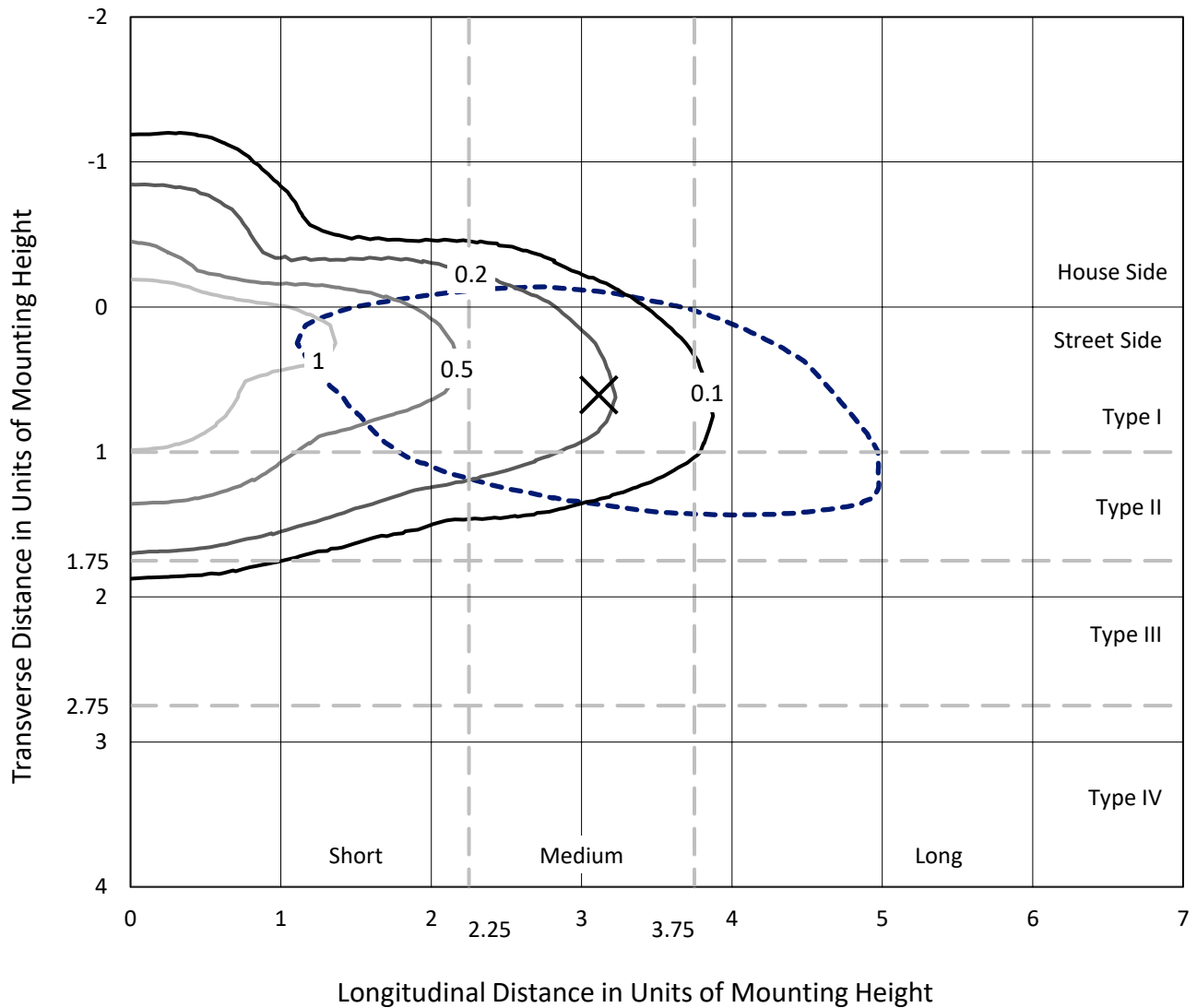
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

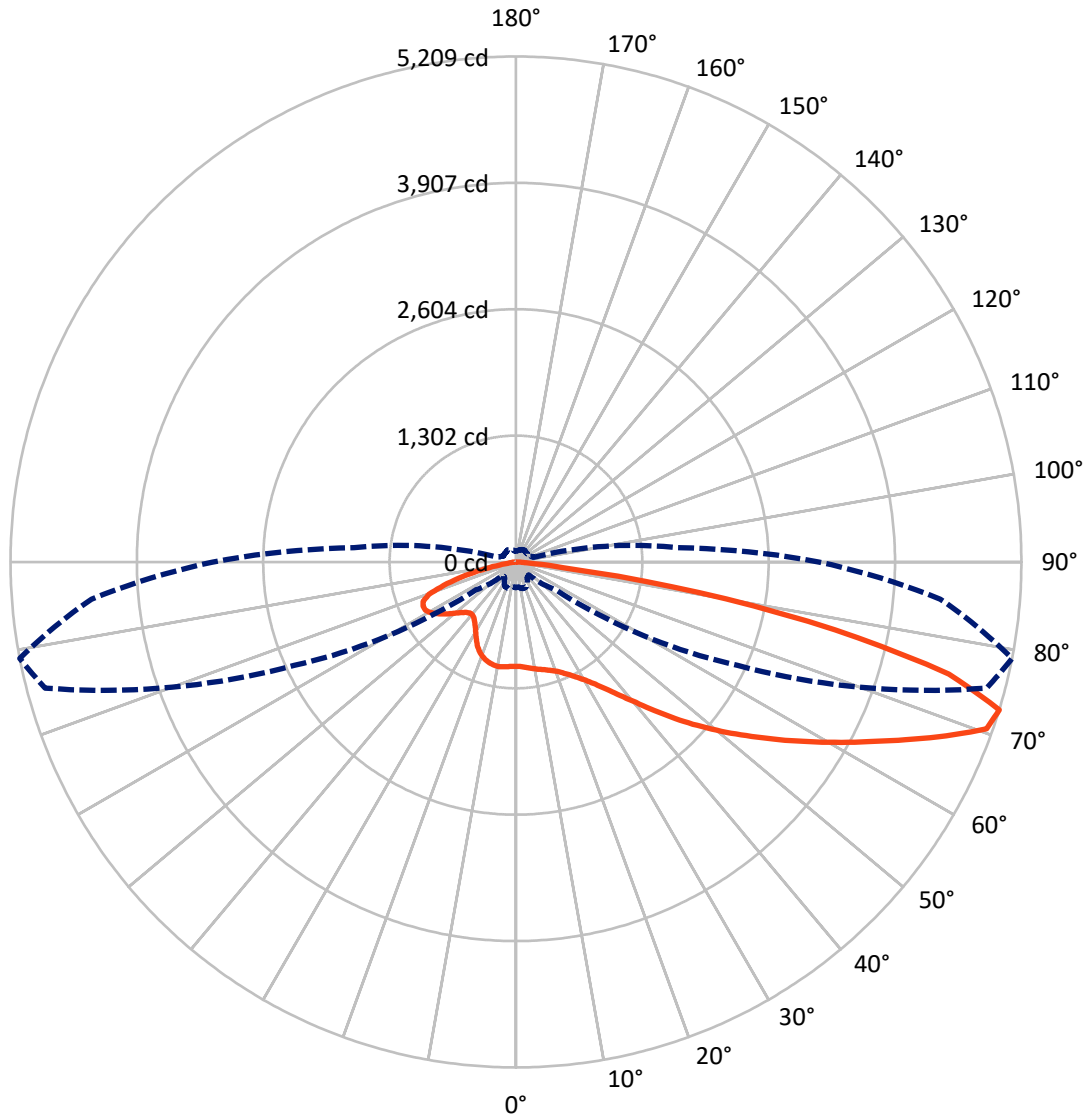
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1178.4	0.0	1178.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4176.6	0.0	4176.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	5355.0	0.0	5355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.8
10°-20°	255.1	4.8
20°-30°	411.6	7.7
30°-40°	617.8	11.5
40°-50°	876.4	16.4
50°-60°	1106.8	20.7
60°-70°	1124.1	21.0
70°-80°	766.1	14.3
80°-90°	99.4	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°	5355.0	100.0
0°-180°	5355.0	100.0

Coefficient of Utilization



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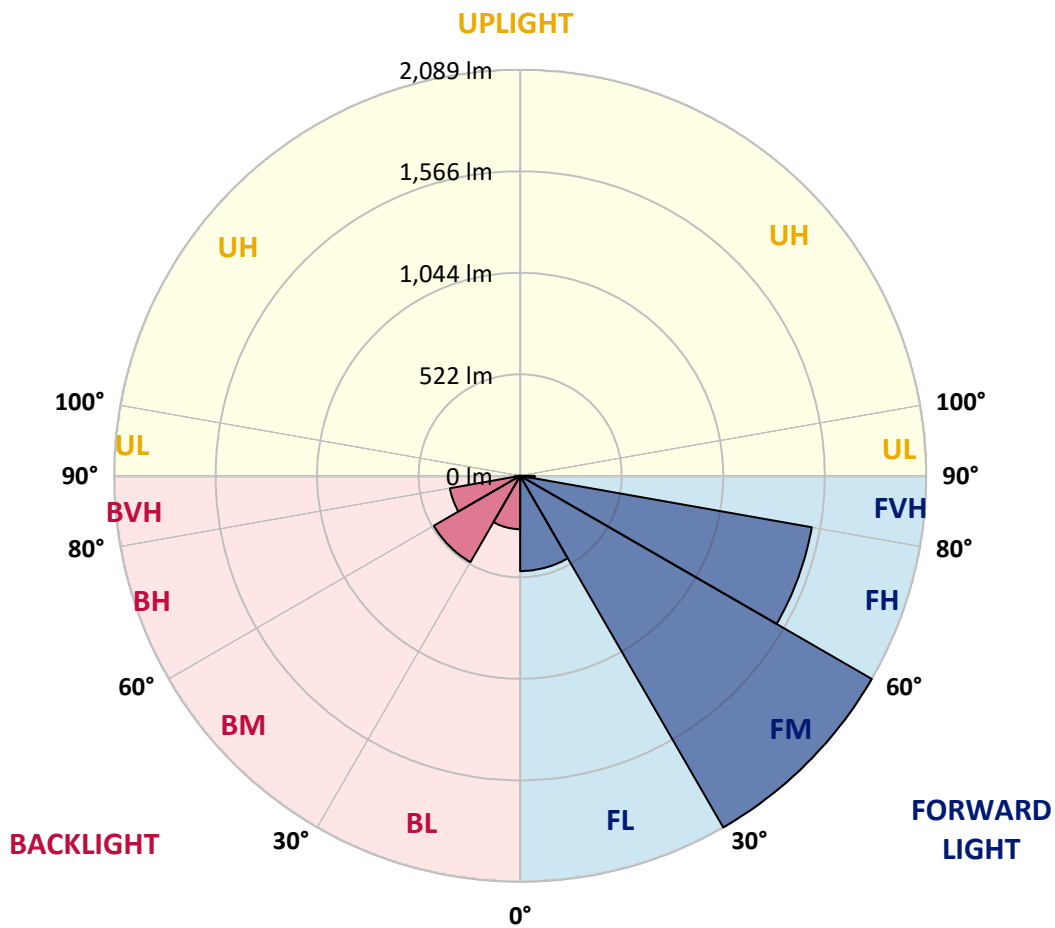
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.9	9.1			
FM (30°-60°)	2088.6	39.0			
FH (60°-80°)	1523.3	28.4			G1/1800
FVH (80°-90°)	74.9	1.4			G1/100
BL (0°-30°)	274.5	5.1	B1/500		
BM (30°-60°)	512.5	9.6	B1/1000		
BH (60°-80°)	366.9	6.9	B1/500		G1/500
BVH (80°-90°)	24.5	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°	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0
2.5°	1075.5	1070.4	1073.5	1072.4	1073.8	1075.5	1076.1	1076.9	1079.8	1079.5
5°	1073.3	1068.2	1072.4	1071.0	1074.7	1078.6	1082.0	1085.2	1089.7	1091.7
7.5°	1068.5	1065.1	1069.3	1073.5	1080.3	1086.3	1091.1	1098.2	1104.7	1105.8
10°	1040.4	1037.9	1047.8	1058.8	1077.5	1093.7	1104.1	1112.4	1119.4	1120.6
12.5°	1011.2	1008.1	1019.2	1034.2	1064.5	1093.7	1115.8	1126.5	1132.8	1136.4
15°	1006.4	1003.9	1010.1	1023.1	1048.3	1086.0	1123.7	1143.5	1148.9	1153.1
17.5°	1029.6	1024.8	1027.4	1031.9	1046.6	1078.9	1129.9	1162.8	1171.0	1175.5
20°	1083.5	1076.7	1072.7	1063.6	1061.1	1080.1	1129.4	1186.0	1196.8	1202.4
22.5°	1155.1	1150.6	1142.1	1119.2	1094.2	1093.9	1140.1	1215.7	1235.9	1241.2
25°	1241.8	1235.0	1224.2	1193.1	1145.2	1121.4	1158.2	1253.7	1287.4	1288.8
27.5°	1341.5	1331.3	1316.6	1275.5	1210.9	1164.5	1186.0	1297.3	1346.6	1346.0
30°	1446.6	1436.4	1420.8	1371.0	1289.7	1222.5	1224.5	1344.3	1416.9	1413.7
32.5°	1523.4	1515.7	1512.6	1474.1	1380.3	1291.1	1268.7	1396.5	1503.5	1500.7
35°	1582.3	1572.4	1576.0	1556.5	1479.2	1367.9	1322.8	1458.5	1608.9	1608.6
37.5°	1640.6	1631.9	1635.0	1621.9	1570.7	1465.3	1388.8	1534.4	1739.5	1745.7
40°	1693.9	1684.5	1697.0	1684.8	1641.8	1569.0	1463.9	1620.2	1890.7	1902.6
42.5°	1725.9	1718.5	1739.2	1739.5	1703.5	1656.5	1546.3	1714.8	2065.8	2092.4
45°	1736.9	1734.4	1765.5	1772.1	1758.2	1707.2	1620.5	1818.0	2254.5	2302.0
47.5°	1725.0	1720.2	1763.3	1787.4	1798.4	1731.0	1682.0	1929.6	2447.1	2516.8
50°	1665.0	1655.6	1719.7	1770.4	1809.7	1746.6	1744.0	2058.4	2666.0	2742.2
52.5°	1557.1	1550.0	1622.8	1710.9	1784.8	1754.2	1813.7	2199.2	2873.9	2972.5
55°	1419.1	1409.8	1489.9	1604.9	1722.8	1751.7	1883.4	2356.7	3119.2	3219.2
57.5°	1200.4	1181.8	1283.2	1419.1	1621.7	1748.6	1955.9	2513.4	3368.5	3488.3
60°	881.5	853.7	978.1	1139.3	1423.9	1718.2	2045.7	2689.0	3667.6	3775.6
62.5°	513.3	497.1	578.4	728.8	1073.3	1539.8	2096.1	2893.2	3961.7	4075.0
65°	398.5	394.0	401.1	412.7	597.4	1152.9	1940.6	3092.3	4335.6	4414.9
67.5°	364.6	361.2	364.3	342.5	303.1	642.1	1535.3	3142.8	4736.1	4784.2
70°	324.0	320.1	330.3	311.6	238.5	292.0	992.0	2959.8	5054.7	5145.1
72.5°	264.0	259.5	283.3	274.8	200.8	187.5	498.3	2525.0	5021.3	5208.8
75°	202.8	200.3	228.6	235.7	163.7	147.6	239.1	1876.9	4418.8	4607.8
77.5°	157.5	155.5	170.0	195.7	132.0	114.4	147.0	1190.5	3330.0	3363.1
80°	118.1	112.5	125.8	151.5	102.8	83.6	99.7	694.3	2104.9	1908.0
82.5°	73.9	71.1	82.1	101.1	72.5	57.5	64.9	383.5	843.5	496.8
85°	42.2	41.1	44.8	57.8	39.4	33.1	37.1	169.4	154.1	105.9
87.5°	17.0	16.4	20.4	25.8	14.4	12.2	13.0	40.8	34.0	31.4
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°
1075.0	0°	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0	1075.0
1079.2	2.5°	1078.1	1078.1	1074.1	1067.9	1060.8	1056.3	1048.9	1046.9	1039.3	1037.0
1088.8	5°	1091.1	1088.8	1076.7	1059.1	1035.0	1012.9	988.6	973.3	951.7	944.1
1107.8	7.5°	1107.5	1101.3	1080.3	1041.8	991.4	941.8	890.3	851.2	813.8	800.5
1123.4	10°	1122.6	1113.8	1078.1	1010.7	923.4	837.6	755.4	697.9	654.3	636.5
1140.7	12.5°	1137.6	1121.4	1063.1	958.8	826.8	710.4	622.9	578.1	551.2	529.7
1154.8	15°	1151.7	1129.1	1039.8	889.4	720.9	602.8	538.2	502.5	481.0	466.8
1175.5	17.5°	1168.2	1135.6	1005.0	801.3	620.1	528.3	475.6	454.1	449.8	448.1
1203.8	20°	1191.1	1141.5	959.1	702.8	545.8	468.8	441.6	439.6	439.3	438.5
1237.8	22.5°	1215.7	1148.6	898.5	613.3	482.7	431.7	426.9	422.9	420.4	420.1
1278.9	25°	1244.9	1150.9	822.6	539.9	428.9	414.1	408.5	402.5	400.8	400.8
1325.6	27.5°	1273.2	1143.2	734.2	476.2	398.5	398.0	390.6	388.6	388.3	389.2
1378.9	30°	1301.6	1128.8	646.4	417.2	381.0	381.0	378.4	379.8	381.0	383.8
1452.0	32.5°	1339.8	1113.5	573.0	373.6	365.7	362.9	365.4	368.2	369.4	373.1
1548.0	35°	1395.9	1102.7	514.7	349.8	349.8	346.1	347.6	347.0	344.4	342.7
1664.1	37.5°	1470.1	1102.2	466.5	338.8	336.5	335.9	336.2	332.5	322.6	310.7
1804.6	40°	1559.3	1117.5	429.4	331.1	329.4	332.8	331.1	321.2	294.0	273.3
1977.4	42.5°	1679.2	1161.1	405.6	321.8	326.9	331.1	324.3	290.1	271.6	257.8
2174.3	45°	1820.2	1231.9	393.4	311.9	322.1	327.2	294.3	279.3	264.6	247.9
2389.0	47.5°	1980.0	1321.1	390.6	302.5	311.3	314.4	281.6	274.8	258.0	239.9
2604.8	50°	2153.9	1426.8	398.3	291.5	295.7	285.0	277.3	271.1	253.8	236.0
2826.1	52.5°	2333.8	1543.2	413.6	276.5	280.1	268.2	275.6	270.2	251.3	227.2
3054.7	55°	2510.5	1660.5	428.3	258.9	264.3	253.2	270.8	266.8	239.6	212.4
3298.5	57.5°	2690.1	1777.2	442.7	243.3	249.0	238.8	263.1	257.8	226.6	198.8
3564.8	60°	2876.8	1890.5	449.5	228.3	232.3	225.5	251.5	242.2	211.9	185.0
3826.5	62.5°	3051.5	1984.8	438.5	213.3	215.8	213.0	236.2	223.8	197.1	169.4
4099.3	65°	3226.9	2040.9	404.5	198.6	199.1	197.7	214.7	203.9	179.9	155.8
4338.1	67.5°	3385.8	2072.3	350.4	182.7	181.3	180.7	194.6	182.4	163.2	142.2
4519.7	70°	3419.5	1992.4	267.7	164.0	164.0	162.6	172.5	160.0	144.7	127.7
4389.7	72.5°	3123.2	1676.0	190.1	142.8	145.0	142.2	150.4	139.9	126.0	114.7
3783.2	75°	2518.4	1229.1	138.2	121.0	124.9	120.1	127.7	120.4	108.5	108.2
2607.1	77.5°	1730.4	760.0	100.3	99.7	102.5	96.3	105.1	101.1	90.4	85.5
1134.7	80°	738.5	303.1	73.1	77.0	77.0	71.4	81.6	82.7	73.4	71.1
219.0	82.5°	147.0	86.1	51.3	53.0	49.9	48.2	57.8	64.0	88.4	98.3
66.0	85°	44.2	31.7	30.9	28.9	25.5	25.8	34.0	64.3	79.3	45.3
21.8	87.5°	12.2	7.9	8.2	6.5	5.4	7.1	11.6	48.7	26.6	11.3
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>
1075.0
1040.7
949.8
802.2
640.4
536.8
469.4
449.2
441.3
423.2
402.5
391.5
385.8
376.2
346.7
311.0
272.8
257.2
246.7
238.5
234.0
225.5
211.0
198.3
184.1
169.1
154.1
140.5
127.2
<i>111.3</i>
97.4
80.2
71.1
98.6
39.1
9.6
0.0

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