

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: P945256

Luminaire Tested: **GALN-SB1B-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945256
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5599 lumens
Efficiency: N/A
Efficacy: 140.7 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

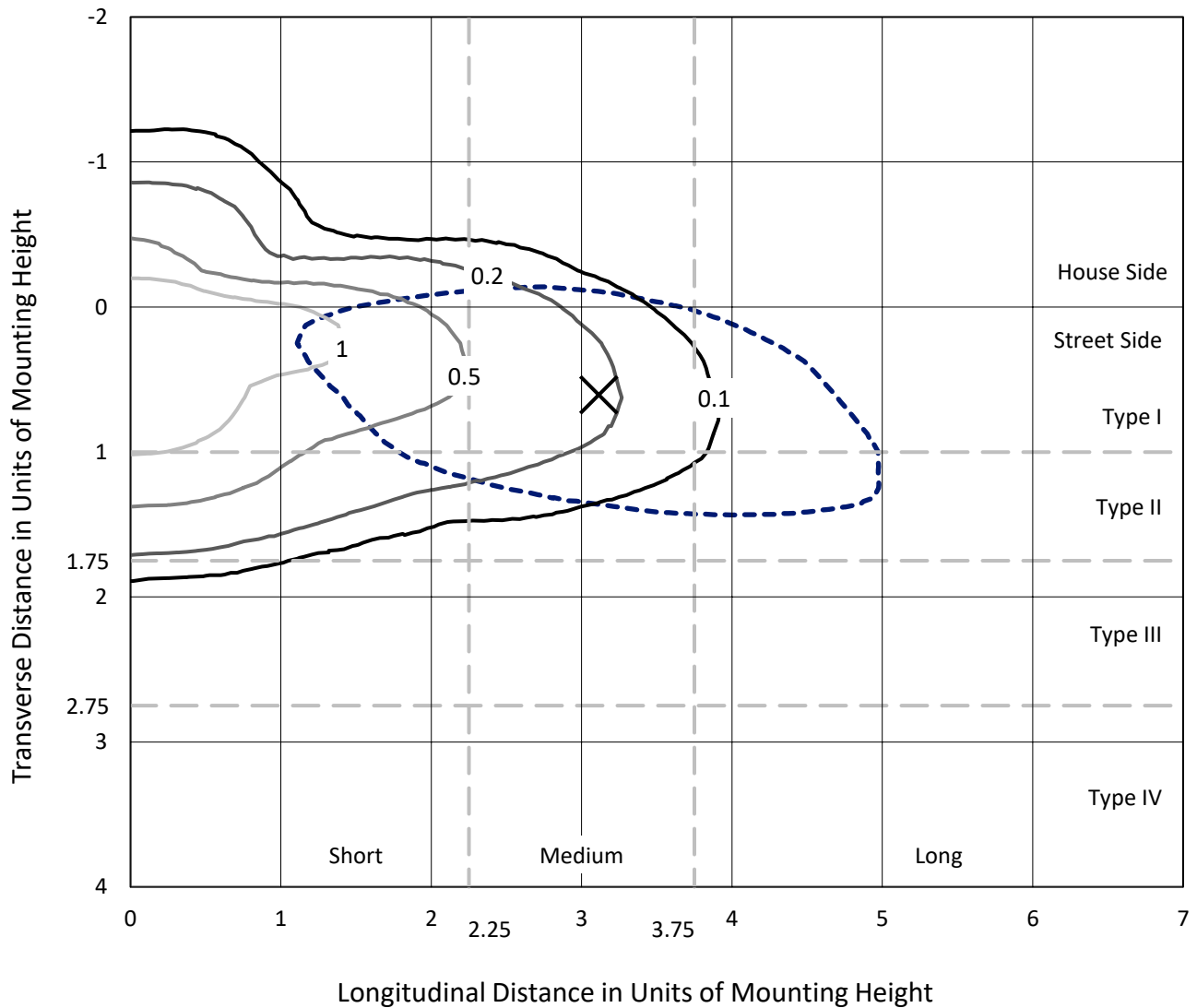
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

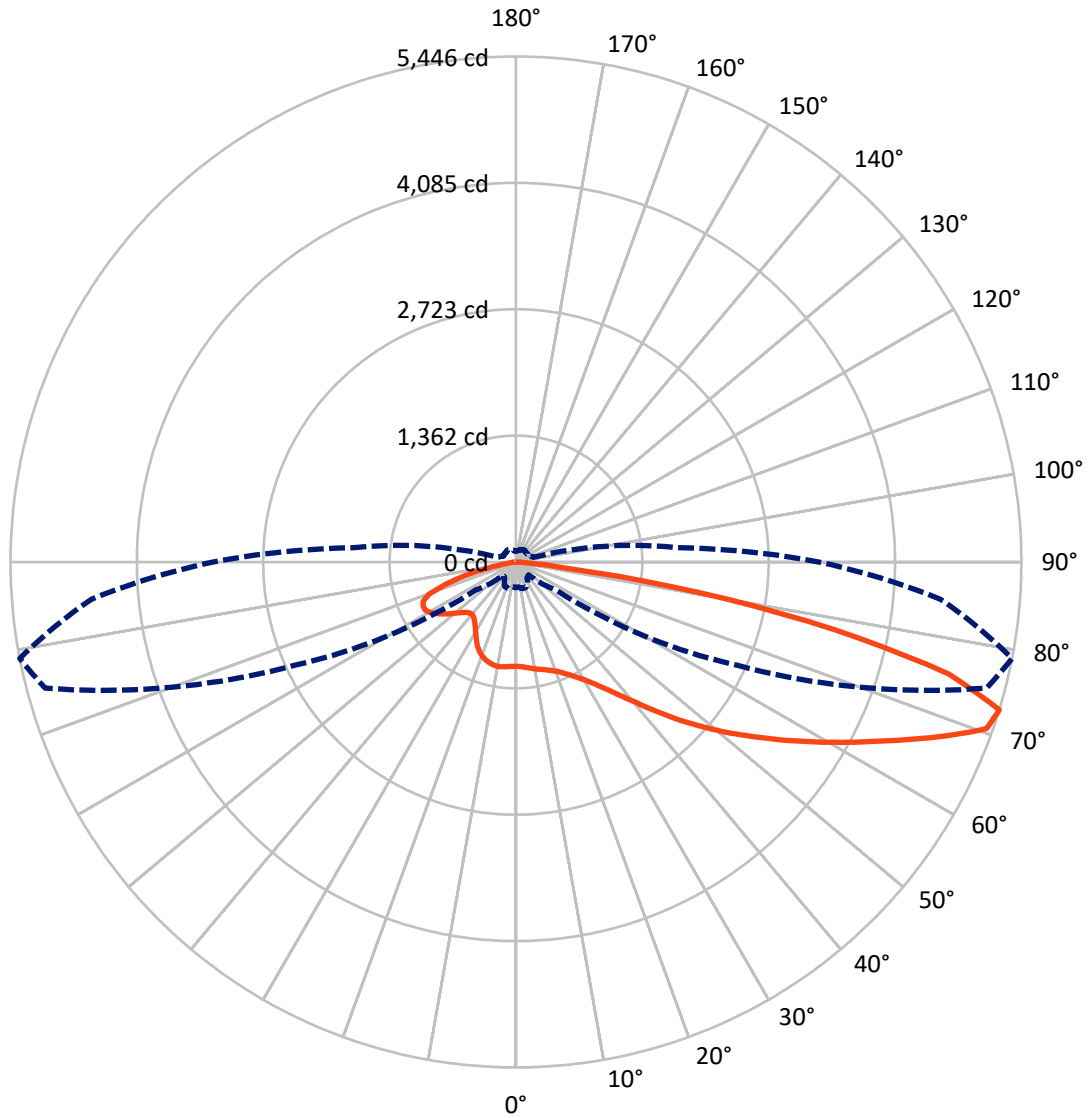
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	1232.1	0.0	1232.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4366.9	0.0	4366.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	5599.0	0.0	5599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.8
10°-20°	266.7	4.8
20°-30°	430.4	7.7
30°-40°	646.0	11.5
40°-50°	916.4	16.4
50°-60°	1157.2	20.7
60°-70°	1175.3	21.0
70°-80°	801.0	14.3
80°-90°	103.9	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°	5599.0	100.0
0°-180°	5599.0	100.0

Coefficient of Utilization



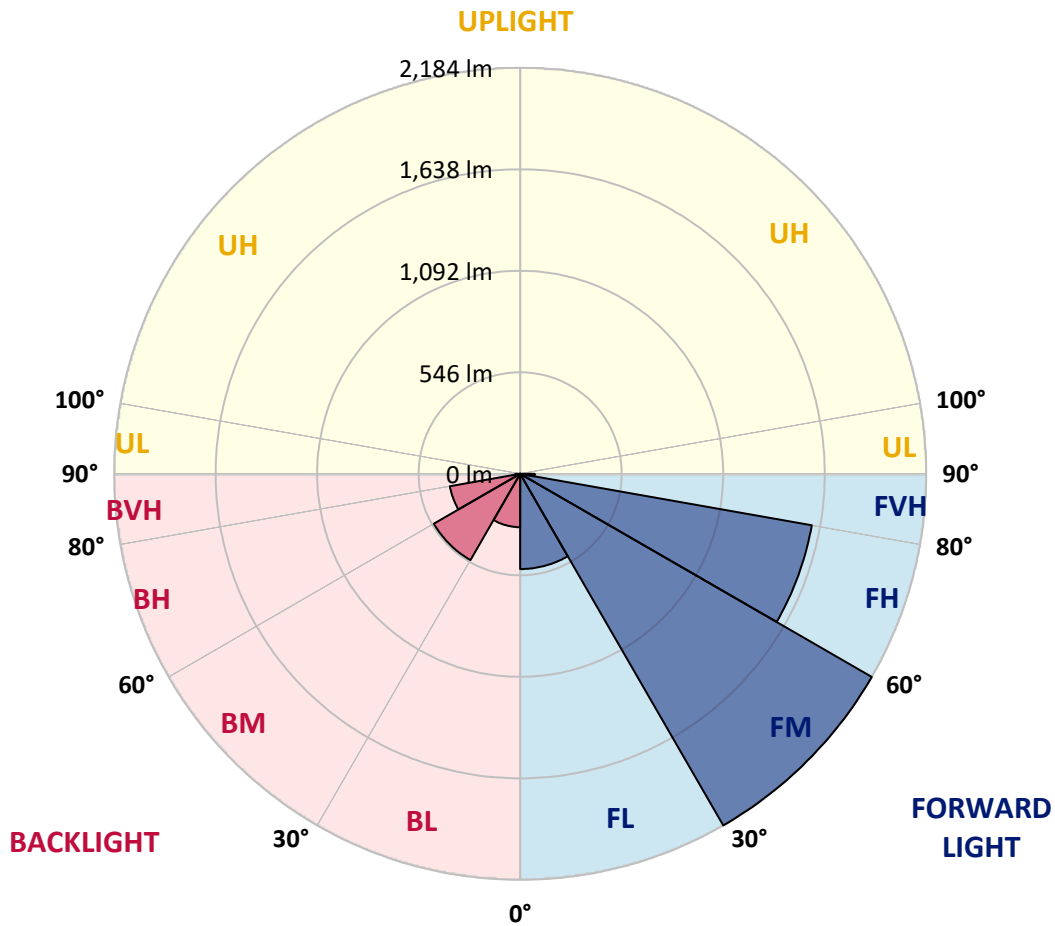
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.2	9.1			
FM (30°-60°)	2183.7	39.0			
FH (60°-80°)	1592.7	28.4			G1/1800
FVH (80°-90°)	78.3	1.4			G1/100
BL (0°-30°)	287.0	5.1	B1/500		
BM (30°-60°)	535.8	9.6	B1/1000		
BH (60°-80°)	383.6	6.9	B1/500		G1/500
BVH (80°-90°)	25.6	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°	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1124.5	1119.2	1122.5	1121.3	1122.8	1124.5	1125.1	1126.0	1129.0	1128.7
5°	1122.2	1116.8	1121.3	1119.8	1123.6	1127.8	1131.4	1134.6	1139.3	1141.4
7.5°	1117.1	1113.6	1118.0	1122.5	1129.6	1135.8	1140.8	1148.2	1155.0	1156.2
10°	1087.8	1085.1	1095.5	1107.1	1126.6	1143.5	1154.5	1163.0	1170.4	1171.6
12.5°	1057.3	1054.1	1065.6	1081.3	1113.0	1143.5	1166.6	1177.8	1184.4	1188.2
15°	1052.3	1049.6	1056.1	1069.7	1096.1	1135.5	1174.9	1195.6	1201.2	1205.7
17.5°	1076.6	1071.5	1074.2	1078.9	1094.3	1128.1	1181.4	1215.8	1224.3	1229.1
20°	1132.8	1125.7	1121.6	1112.1	1109.4	1129.3	1180.8	1240.0	1251.3	1257.2
22.5°	1207.8	1203.0	1194.1	1170.1	1144.1	1143.8	1192.1	1271.1	1292.2	1297.8
25°	1298.4	1291.3	1280.0	1247.4	1197.4	1172.5	1211.0	1310.8	1346.1	1347.6
27.5°	1402.6	1392.0	1376.6	1333.6	1266.1	1217.5	1240.0	1356.4	1408.0	1407.4
30°	1512.5	1501.9	1485.6	1433.4	1348.4	1278.2	1280.3	1405.6	1481.4	1478.2
32.5°	1592.8	1584.8	1581.5	1541.2	1443.2	1349.9	1326.5	1460.1	1572.0	1569.1
35°	1654.4	1644.0	1647.9	1627.4	1546.6	1430.2	1383.1	1525.0	1682.2	1681.9
37.5°	1715.4	1706.2	1709.5	1695.8	1642.2	1532.1	1452.1	1604.3	1818.7	1825.3
40°	1771.1	1761.3	1774.3	1761.6	1716.6	1640.5	1530.6	1694.1	1976.9	1989.3
42.5°	1804.5	1796.8	1818.5	1818.7	1781.1	1732.0	1616.8	1793.0	2159.9	2187.8
45°	1816.1	1813.4	1846.0	1852.8	1838.3	1785.0	1694.4	1900.8	2357.2	2406.9
47.5°	1803.6	1798.6	1843.6	1868.8	1880.4	1809.9	1758.6	2017.5	2558.6	2631.4
50°	1740.9	1731.1	1798.0	1851.0	1892.2	1826.2	1823.5	2152.2	2787.5	2867.2
52.5°	1628.0	1620.6	1696.7	1788.8	1866.1	1834.1	1896.3	2299.4	3004.9	3108.0
55°	1483.8	1474.0	1557.8	1678.1	1801.3	1831.5	1969.2	2464.1	3261.4	3365.9
57.5°	1255.1	1235.6	1341.6	1483.8	1695.5	1828.2	2045.0	2627.9	3522.0	3647.3
60°	921.7	892.6	1022.7	1191.2	1488.8	1796.5	2138.9	2811.5	3834.7	3947.6
62.5°	536.7	519.8	604.8	762.0	1122.2	1610.0	2191.6	3025.0	4142.2	4260.6
65°	416.7	412.0	419.4	431.5	624.6	1205.4	2029.0	3233.2	4533.1	4616.0
67.5°	381.2	377.6	380.9	358.1	316.9	671.4	1605.2	3286.0	4951.9	5002.2
70°	338.8	334.7	345.3	325.8	249.4	305.3	1037.2	3094.6	5285.1	5379.5
72.5°	276.0	271.3	296.2	287.3	210.0	196.1	521.0	2640.0	5250.1	5446.2
75°	212.1	209.4	239.0	246.4	171.2	154.3	250.0	1962.4	4620.2	4817.7
77.5°	164.7	162.6	177.7	204.6	138.0	119.7	153.7	1244.8	3481.7	3516.4
80°	123.5	117.6	131.5	158.4	107.5	87.4	104.3	725.9	2200.8	1995.0
82.5°	77.3	74.3	85.9	105.7	75.8	60.1	67.8	401.0	882.0	519.5
85°	44.1	42.9	46.8	60.4	41.2	34.7	38.8	177.1	161.1	110.8
87.5°	17.8	17.2	21.3	27.0	15.1	12.7	13.6	42.6	35.5	32.9
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°
1123.9	0°	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9
1128.4	2.5°	1127.2	1127.2	1123.1	1116.5	1109.1	1104.4	1096.7	1094.6	1086.6	1084.3
1138.5	5°	1140.8	1138.5	1125.7	1107.4	1082.2	1059.1	1033.6	1017.6	995.1	987.1
1158.3	7.5°	1158.0	1151.5	1129.6	1089.3	1036.6	984.7	930.8	890.0	850.9	837.0
1174.6	10°	1173.7	1164.5	1127.2	1056.7	965.5	875.8	789.9	729.8	684.1	665.5
1192.7	12.5°	1189.4	1172.5	1111.5	1002.5	864.5	742.8	651.3	604.5	576.3	553.8
1207.5	15°	1204.2	1180.5	1087.2	930.0	753.7	630.2	562.7	525.4	502.9	488.1
1229.1	17.5°	1221.4	1187.3	1050.8	837.9	648.3	552.3	497.3	474.8	470.3	468.5
1258.7	20°	1245.4	1193.5	1002.8	734.8	570.7	490.2	461.7	459.6	459.4	458.5
1294.2	22.5°	1271.1	1200.9	939.4	641.2	504.7	451.4	446.3	442.2	439.5	439.2
1337.2	25°	1301.6	1203.3	860.1	564.5	448.4	433.0	427.1	420.9	419.1	419.1
1386.1	27.5°	1331.3	1195.3	767.7	497.9	416.7	416.1	408.4	406.3	406.0	406.9
1441.7	30°	1360.9	1180.2	675.8	436.3	398.3	398.3	395.7	397.2	398.3	401.3
1518.1	32.5°	1400.9	1164.2	599.1	390.6	382.3	379.4	382.1	385.0	386.2	390.0
1618.5	35°	1459.5	1153.0	538.1	365.8	365.8	361.9	363.4	362.8	360.1	358.4
1740.0	37.5°	1537.1	1152.4	487.8	354.2	351.8	351.3	351.5	347.7	337.3	324.9
1886.9	40°	1630.4	1168.4	449.0	346.2	344.4	348.0	346.2	335.9	307.4	285.8
2067.5	42.5°	1755.7	1214.0	424.1	336.4	341.8	346.2	339.1	303.3	284.0	269.5
2273.4	45°	1903.2	1288.0	411.4	326.1	336.7	342.1	307.7	292.0	276.6	259.1
2497.9	47.5°	2070.2	1381.3	408.4	316.3	325.5	328.7	294.4	287.3	269.8	250.9
2723.5	50°	2252.0	1491.8	416.4	304.8	309.2	297.9	289.9	283.4	265.4	246.7
2954.8	52.5°	2440.1	1613.5	432.4	289.1	292.9	280.5	288.2	282.5	262.7	237.5
3193.8	55°	2624.9	1736.1	447.8	270.7	276.3	264.8	283.1	279.0	250.6	222.1
3448.8	57.5°	2812.7	1858.1	462.9	254.4	260.3	249.7	275.1	269.5	236.9	207.9
3727.2	60°	3007.9	1976.6	470.0	238.7	242.9	235.7	263.0	253.2	221.5	193.4
4000.9	62.5°	3190.6	2075.2	458.5	223.0	225.7	222.7	247.0	234.0	206.1	177.1
4286.1	65°	3373.9	2133.9	422.9	207.6	208.2	206.7	224.5	213.2	188.1	162.9
4535.8	67.5°	3540.1	2166.7	366.4	191.0	189.5	189.0	203.5	190.7	170.6	148.7
4725.6	70°	3575.3	2083.2	279.9	171.5	171.5	170.0	180.4	167.3	151.3	133.6
4589.7	72.5°	3265.5	1752.4	198.7	149.3	151.6	148.7	157.3	146.3	131.8	119.9
3955.6	75°	2633.2	1285.1	144.5	126.5	130.6	125.6	133.6	125.9	113.4	113.1
2725.9	77.5°	1809.3	794.6	104.8	104.3	107.2	100.7	109.9	105.7	94.5	89.4
1186.4	80°	772.1	316.9	76.4	80.6	80.6	74.6	85.3	86.5	76.7	74.3
228.9	82.5°	153.7	90.0	53.6	55.4	52.1	50.3	60.4	66.9	92.4	102.8
69.0	85°	46.2	33.2	32.3	30.2	26.7	27.0	35.5	67.2	82.9	47.4
22.8	87.5°	12.7	8.3	8.6	6.8	5.6	7.4	12.1	50.9	27.8	11.8
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>
1123.9
1088.1
993.0
838.7
669.6
561.2
490.7
469.7
461.4
442.5
420.9
409.3
403.4
393.3
362.5
325.2
285.2
268.9
258.0
249.4
244.6
235.7
220.6
207.3
192.5
176.8
161.1
146.9
133.0
116.4
101.9
83.8
74.3
103.1
40.9
10.1
0.0

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