

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: P946224

Luminaire Tested: **GALN-SB1D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7209 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

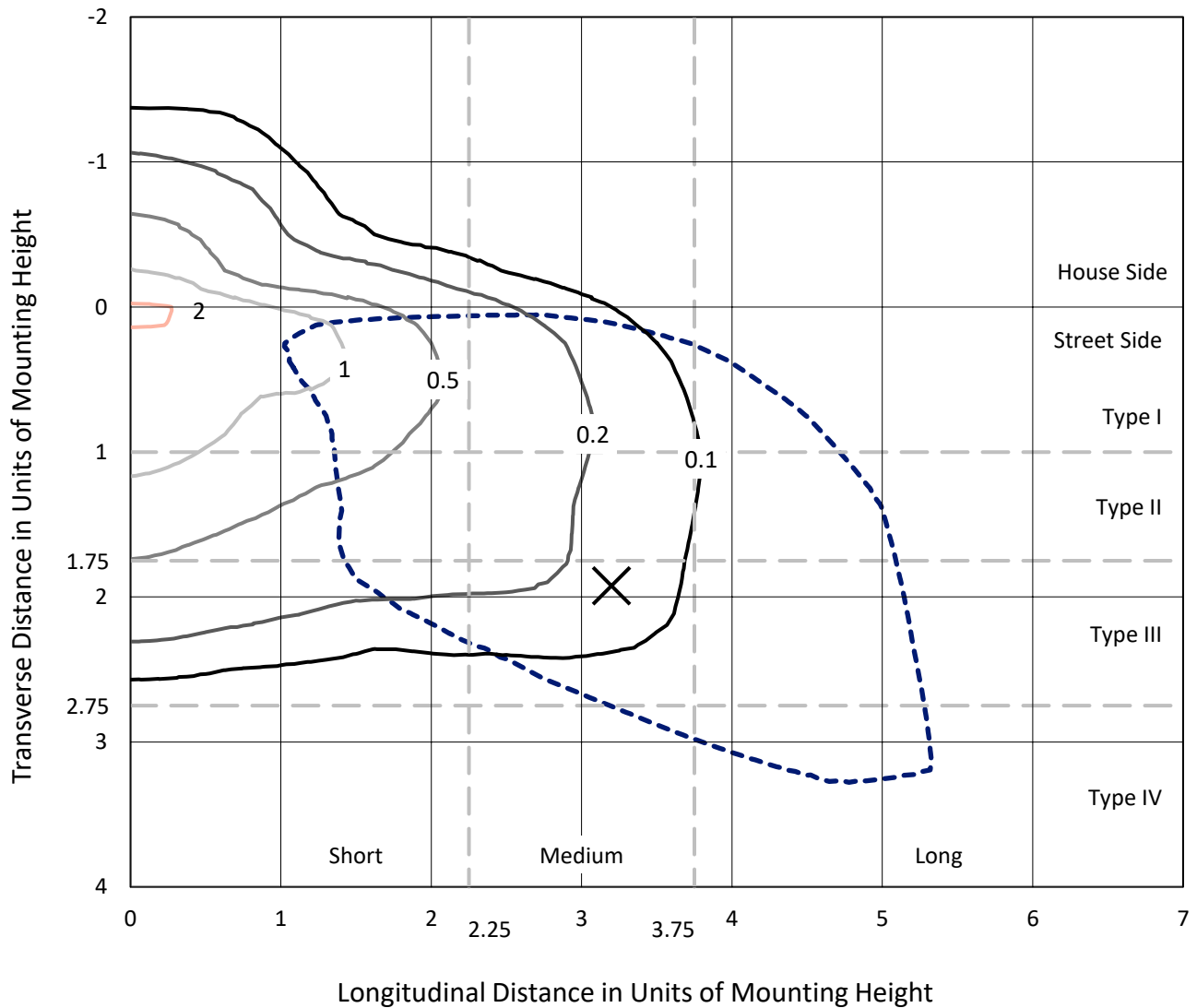
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

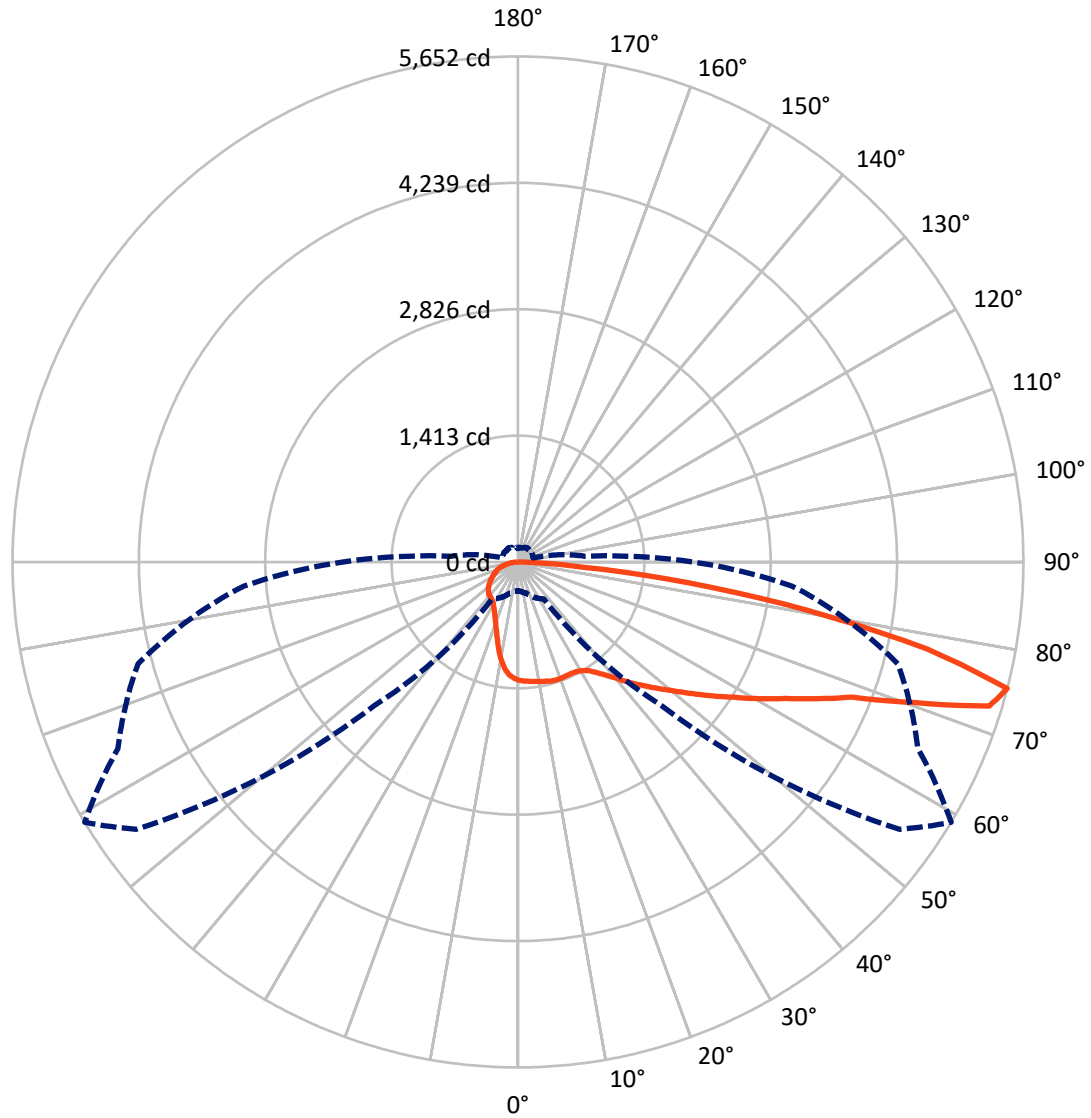
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1352.1	0.0	1352.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5856.9	0.0	5856.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	7209.0	0.0	7209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.6
10°-20°	303.3	4.2
20°-30°	460.6	6.4
30°-40°	684.7	9.5
40°-50°	1018.3	14.1
50°-60°	1382.2	19.2
60°-70°	1687.5	23.4
70°-80°	1324.3	18.4
80°-90°	229.4	3.2
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°	7209.0	100.0
0°-180°	7209.0	100.0

Coefficient of Utilization



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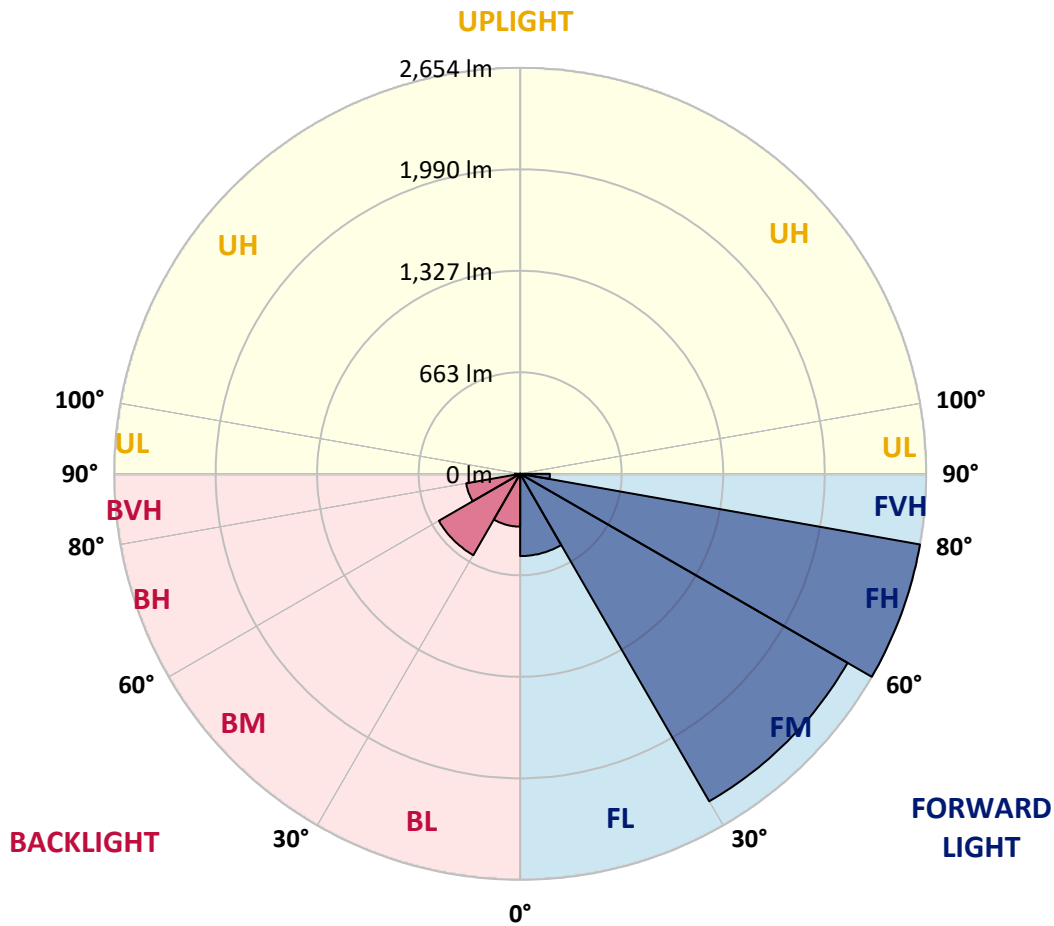
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.5	7.5			
FM (30°-60°)	2471.5	34.3			
FH (60°-80°)	2653.6	36.8			G2/5000
FVH (80°-90°)	194.3	2.7			G2/225
BL (0°-30°)	345.0	4.8	B1/500		
BM (30°-60°)	613.7	8.5	B1/1000		
BH (60°-80°)	358.2	5.0	B1/500		G1/500
BVH (80°-90°)	35.1	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1334.4	1329.8	1334.4	1332.5	1331.7	1330.2	1330.6	1333.3	1331.7	1333.7
5°	1325.5	1322.8	1327.5	1326.3	1331.3	1332.1	1337.2	1340.3	1342.2	1342.6
7.5°	1310.8	1308.1	1314.7	1320.1	1331.0	1334.1	1344.5	1349.6	1352.3	1356.9
10°	1256.9	1255.7	1272.0	1292.6	1318.2	1334.1	1350.0	1358.5	1362.8	1375.2
12.5°	1161.5	1163.0	1184.4	1223.9	1275.1	1326.3	1356.2	1368.6	1375.2	1390.7
15°	1070.3	1070.0	1093.2	1135.5	1207.2	1292.2	1359.3	1380.6	1391.8	1414.7
17.5°	1017.6	1016.1	1032.3	1064.5	1131.2	1239.8	1351.5	1387.2	1411.2	1439.9
20°	1007.9	1004.8	1013.3	1029.2	1076.6	1182.4	1331.3	1387.2	1426.7	1464.0
22.5°	1043.2	1038.2	1034.7	1032.7	1053.7	1135.1	1308.5	1382.5	1449.6	1498.5
25°	1114.2	1106.4	1088.6	1071.1	1064.9	1113.8	1288.3	1381.4	1483.7	1545.0
27.5°	1229.0	1219.3	1183.2	1141.3	1103.7	1124.6	1279.4	1388.3	1521.4	1594.3
30°	1371.3	1360.8	1315.4	1251.1	1183.6	1165.0	1290.6	1408.9	1569.5	1659.8
32.5°	1498.9	1487.2	1448.5	1382.9	1291.8	1234.8	1326.3	1448.1	1645.1	1750.9
35°	1612.1	1598.5	1563.6	1503.1	1424.4	1332.9	1390.7	1517.5	1752.5	1899.1
37.5°	1723.0	1707.1	1669.1	1605.1	1550.1	1463.6	1479.5	1606.7	1895.2	2079.0
40°	1847.1	1824.2	1778.1	1714.9	1661.4	1616.8	1596.2	1716.0	2040.3	2279.9
42.5°	1967.3	1945.6	1890.6	1836.7	1769.6	1756.8	1731.6	1844.0	2198.9	2500.6
45°	2096.9	2070.9	2004.2	1935.9	1893.7	1849.8	1862.6	1972.0	2354.4	2725.5
47.5°	2218.3	2189.2	2110.4	2034.4	2011.2	1928.2	1982.9	2112.8	2516.1	2953.5
50°	2283.8	2255.1	2189.6	2120.9	2102.7	2024.7	2113.2	2267.5	2685.6	3180.8
52.5°	2338.5	2307.4	2221.7	2183.7	2178.3	2129.8	2273.7	2444.3	2855.0	3381.7
55°	2396.6	2362.1	2252.8	2218.6	2243.5	2247.7	2464.1	2644.8	3034.2	3577.5
57.5°	2463.7	2419.9	2282.6	2248.1	2307.1	2385.8	2682.8	2852.7	3210.3	3759.0
60°	2526.9	2482.7	2340.0	2295.0	2375.7	2545.9	2933.8	3104.4	3409.6	3920.7
62.5°	2539.4	2502.9	2385.8	2385.4	2468.8	2732.9	3230.8	3358.4	3583.7	4080.5
65°	2324.5	2301.6	2232.2	2381.9	2602.2	3002.0	3561.6	3683.4	3805.2	4220.1
67.5°	1769.2	1772.3	1767.2	2056.2	2494.4	3388.7	4040.6	4031.2	4078.6	4376.8
70°	809.0	827.2	945.9	1419.4	1998.4	3433.3	4832.5	4711.8	4421.8	4579.6
72.5°	437.1	451.0	499.5	687.6	1201.4	3052.4	5424.2	5510.0	4878.2	4716.1
75°	320.7	328.5	362.2	437.1	504.5	2268.7	5212.1	5651.9	4935.2	4397.7
77.5°	240.1	243.5	271.1	346.3	258.3	1196.0	4164.7	4680.8	4224.8	3613.2
80°	174.1	178.0	198.6	259.8	181.1	437.4	2859.7	3285.5	2893.4	2303.2
82.5°	120.2	121.8	130.7	176.8	126.4	169.9	1622.6	1926.6	1615.2	808.2
85°	72.5	74.5	78.3	103.2	71.7	80.7	700.4	724.4	482.8	193.1
87.5°	29.9	31.8	34.9	43.4	28.3	22.5	115.6	145.0	90.4	56.6
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°
1323.2	0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
1327.1	2.5°	1325.1	1322.4	1315.1	1305.0	1295.7	1284.0	1279.0	1274.7	1270.8	1263.5
1337.5	5°	1333.3	1325.9	1306.1	1280.5	1251.5	1219.7	1188.6	1167.3	1149.1	1135.5
1349.6	7.5°	1345.7	1331.7	1295.7	1243.3	1176.6	1108.4	1046.7	1002.9	969.9	957.9
1366.6	10°	1358.5	1341.8	1279.0	1186.7	1071.5	966.4	884.6	839.6	813.2	804.7
1386.8	12.5°	1373.6	1349.2	1253.0	1108.0	954.0	838.8	767.5	741.1	727.5	722.9
1411.6	15°	1395.7	1355.4	1213.8	1009.5	841.9	745.8	699.6	681.4	674.4	674.0
1437.2	17.5°	1412.4	1356.5	1152.9	904.0	755.8	689.5	651.5	644.5	649.2	656.2
1462.4	20°	1431.0	1346.1	1073.1	807.8	695.3	640.3	624.4	629.0	640.3	650.4
1495.8	22.5°	1444.2	1327.1	976.5	733.0	643.0	612.0	611.2	620.9	627.1	632.1
1534.9	25°	1455.8	1294.9	874.1	670.1	599.9	594.9	603.4	600.3	596.1	600.3
1574.1	27.5°	1464.4	1244.1	782.6	615.1	569.7	583.3	578.2	571.2	570.9	573.2
1620.3	30°	1461.6	1176.2	707.4	562.7	548.4	561.5	549.5	548.4	547.2	548.4
1689.7	32.5°	1461.6	1099.0	649.6	526.6	534.8	529.7	528.6	525.9	521.2	520.8
1783.9	35°	1469.8	1021.9	599.9	507.3	523.5	511.5	512.3	505.7	496.0	491.4
1908.8	37.5°	1486.5	959.8	550.7	497.9	503.8	503.4	500.3	489.0	472.0	457.2
2064.7	40°	1526.8	941.6	516.9	493.7	494.5	499.1	491.0	469.2	430.5	406.4
2222.9	42.5°	1590.0	972.2	509.6	483.2	488.2	492.9	477.0	426.6	399.1	384.7
2388.9	45°	1670.3	1025.7	525.5	468.1	473.5	481.7	434.3	410.3	397.9	398.3
2553.3	47.5°	1771.9	1082.0	555.0	454.9	452.2	456.8	406.0	391.3	374.2	378.5
2711.2	50°	1889.4	1139.0	582.9	437.1	428.5	413.4	387.8	373.8	352.1	342.0
2863.6	52.5°	2016.6	1194.1	594.1	415.3	402.9	385.5	375.4	358.3	332.0	315.3
3007.4	55°	2137.2	1244.1	581.7	389.4	377.3	363.8	362.2	351.7	323.4	300.2
3135.4	57.5°	2251.2	1286.0	550.7	363.0	351.4	343.2	353.7	348.6	313.0	283.1
3256.4	60°	2347.8	1314.7	505.7	336.2	328.1	323.8	339.7	338.2	298.2	264.9
3365.0	62.5°	2424.6	1325.9	456.1	310.6	308.7	300.9	320.3	320.3	279.6	247.0
3460.4	65°	2484.7	1315.1	405.6	285.4	289.3	277.7	296.7	294.3	259.8	231.1
3570.1	67.5°	2537.8	1279.4	349.8	260.6	269.5	254.8	271.9	266.4	238.1	215.2
3665.2	70°	2561.5	1196.4	286.2	235.8	246.6	232.3	247.0	236.9	213.7	198.2
3560.8	72.5°	2371.4	994.3	225.3	209.8	219.1	207.5	220.3	208.6	187.3	180.3
3074.9	75°	1961.9	746.1	173.3	181.5	188.5	179.6	188.1	179.6	160.2	165.2
2271.4	77.5°	1424.8	503.8	132.6	151.6	154.7	150.1	157.4	147.8	130.3	129.1
1132.0	80°	708.5	295.1	103.9	119.8	118.7	115.6	124.1	119.4	104.7	110.9
305.6	82.5°	205.1	126.4	75.6	84.2	81.8	82.6	88.8	91.1	136.5	135.3
95.0	85°	64.4	49.6	45.4	46.9	44.6	45.8	52.4	103.9	96.2	56.2
29.5	87.5°	16.7	17.1	11.2	12.0	12.4	14.7	16.7	63.2	30.2	19.8
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

180°
1323.2
1260.0
1124.3
936.9
791.5
724.0
675.6
658.9
653.8
634.8
603.0
577.1
552.6
525.9
496.0
462.3
409.5
384.7
400.2
389.4
344.8
314.9
300.2
281.5
263.7
245.9
229.6
213.7
195.1
174.5
150.9
123.3
109.7
138.4
60.9
20.9
0.0

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