

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: P945697

Luminaire Tested: **GALN-SB1C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945697
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-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6475 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

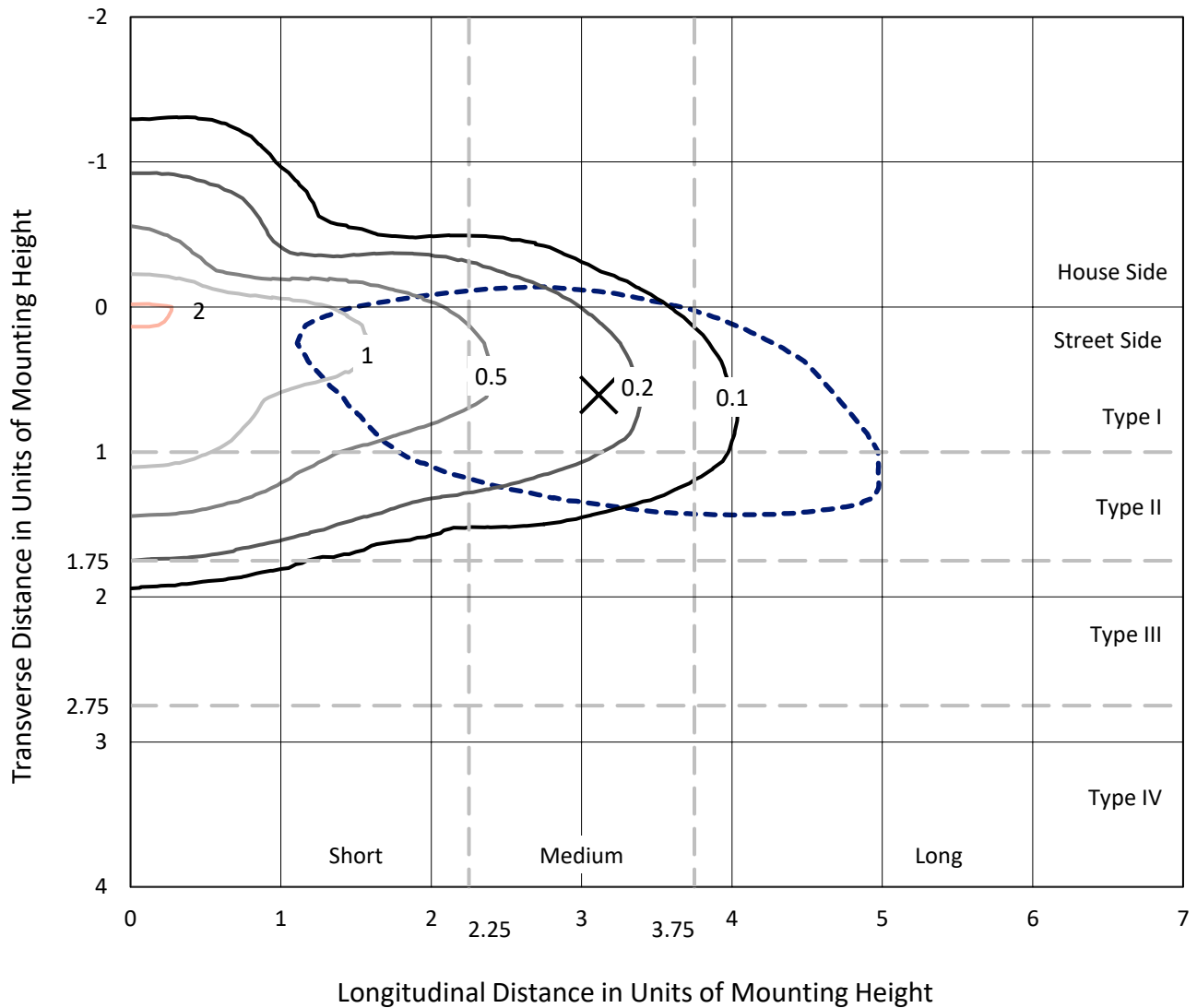
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

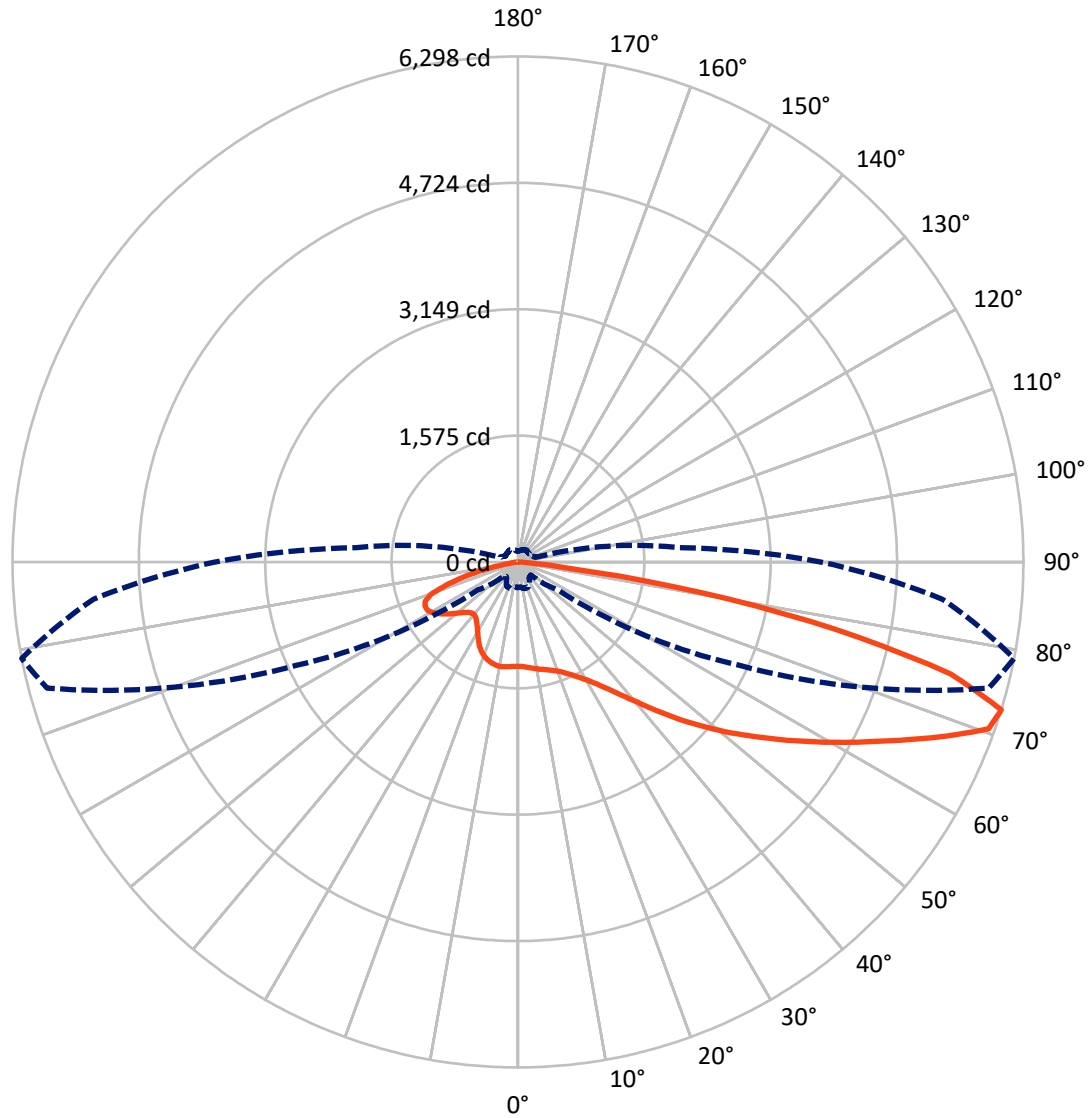
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1424.9	0.0	1424.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5050.1	0.0	5050.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	6475.0	0.0	6475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.8
10°-20°	308.5	4.8
20°-30°	497.7	7.7
30°-40°	747.0	11.5
40°-50°	1059.7	16.4
50°-60°	1338.3	20.7
60°-70°	1359.2	21.0
70°-80°	926.4	14.3
80°-90°	120.2	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°	6475.0	100.0
0°-180°	6475.0	100.0

Coefficient of Utilization



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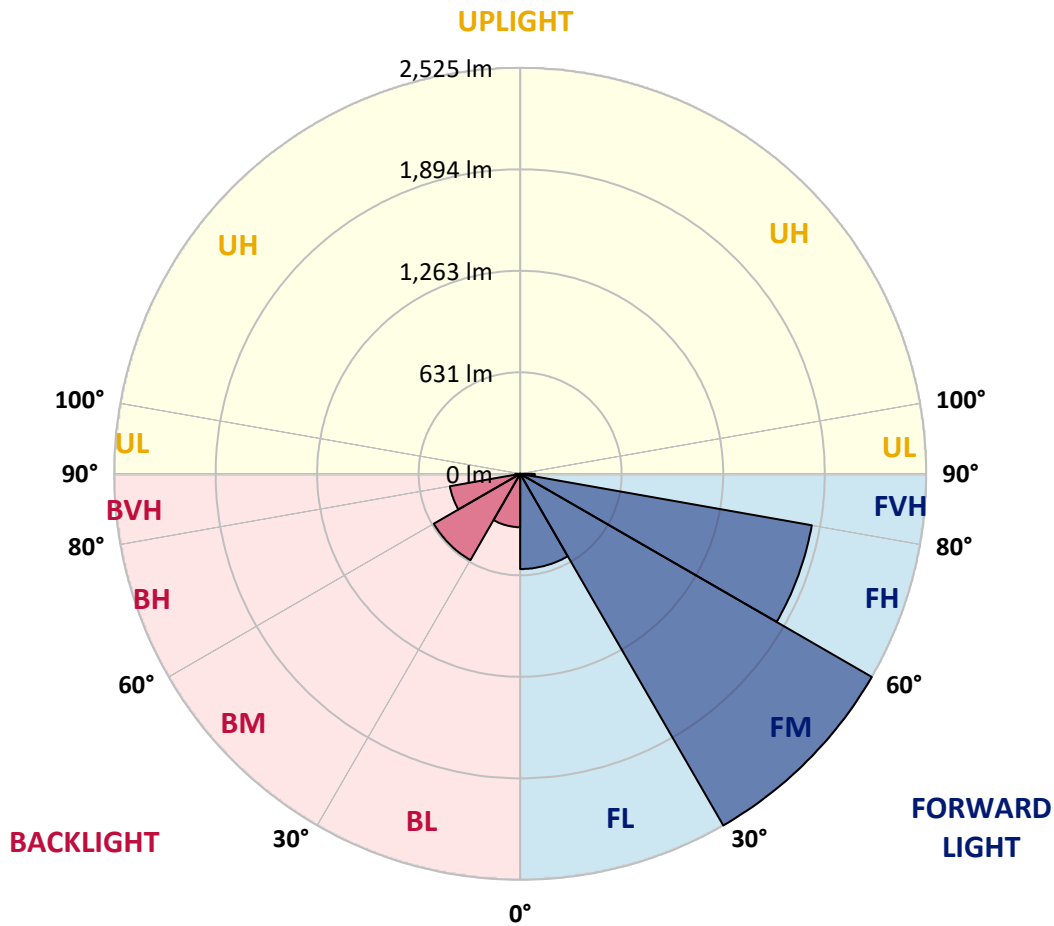
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.3	9.1			
FM (30°-60°)	2525.4	39.0			
FH (60°-80°)	1841.9	28.4			G2/5000
FVH (80°-90°)	90.5	1.4			G1/100
BL (0°-30°)	331.9	5.1	B1/500		
BM (30°-60°)	619.7	9.6	B1/1000		
BH (60°-80°)	443.7	6.9	B1/500		G1/500
BVH (80°-90°)	29.6	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8
2.5°	1300.5	1294.3	1298.1	1296.7	1298.4	1300.5	1301.2	1302.2	1305.6	1305.3
5°	1297.7	1291.6	1296.7	1295.0	1299.5	1304.2	1308.4	1312.1	1317.6	1320.0
7.5°	1291.9	1287.8	1292.9	1298.1	1306.3	1313.5	1319.3	1327.9	1335.8	1337.1
10°	1258.0	1254.9	1266.9	1280.3	1302.9	1322.4	1335.1	1345.0	1353.6	1354.9
12.5°	1222.7	1219.0	1232.3	1250.5	1287.1	1322.4	1349.1	1362.1	1369.7	1374.1
15°	1216.9	1213.8	1221.4	1237.1	1267.6	1313.2	1358.7	1382.7	1389.2	1394.3
17.5°	1245.0	1239.2	1242.3	1247.7	1265.5	1304.6	1366.2	1406.0	1415.9	1421.4
20°	1310.1	1301.8	1297.1	1286.1	1283.0	1306.0	1365.6	1434.1	1447.1	1453.9
22.5°	1396.7	1391.2	1381.0	1353.2	1323.1	1322.7	1378.6	1470.0	1494.3	1500.8
25°	1501.5	1493.3	1480.3	1442.6	1384.7	1356.0	1400.5	1515.9	1556.7	1558.4
27.5°	1622.1	1609.8	1591.9	1542.3	1464.2	1408.0	1434.1	1568.7	1628.3	1627.6
30°	1749.2	1736.8	1718.0	1657.7	1559.4	1478.2	1480.6	1625.5	1713.2	1709.4
32.5°	1842.0	1832.7	1829.0	1782.4	1669.0	1561.1	1534.1	1688.5	1818.0	1814.6
35°	1913.2	1901.2	1905.7	1882.0	1788.5	1653.9	1599.5	1763.5	1945.4	1945.1
37.5°	1983.8	1973.2	1976.9	1961.2	1899.2	1771.8	1679.3	1855.3	2103.3	2110.8
40°	2048.2	2036.9	2051.9	2037.2	1985.1	1897.1	1770.0	1959.1	2286.2	2300.6
42.5°	2086.9	2078.0	2103.0	2103.3	2059.8	2003.0	1869.7	2073.5	2497.9	2530.1
45°	2100.2	2097.1	2134.8	2142.7	2125.9	2064.3	1959.5	2198.2	2726.0	2783.5
47.5°	2085.8	2080.0	2132.1	2161.2	2174.5	2093.0	2033.8	2333.1	2958.9	3043.1
50°	2013.2	2001.9	2079.3	2140.6	2188.2	2111.9	2108.8	2489.0	3223.6	3315.8
52.5°	1882.7	1874.2	1962.2	2068.7	2158.1	2121.1	2193.0	2659.2	3475.0	3594.2
55°	1715.9	1704.6	1801.6	1940.6	2083.1	2118.0	2277.3	2849.6	3771.6	3892.5
57.5°	1451.5	1428.9	1551.5	1715.9	1960.8	2114.3	2365.0	3039.0	4073.0	4217.9
60°	1065.9	1032.3	1182.7	1377.5	1721.8	2077.6	2473.5	3251.4	4434.7	4565.2
62.5°	620.6	601.1	699.4	881.3	1297.7	1861.8	2534.5	3498.3	4790.2	4927.2
65°	481.9	476.4	485.0	499.0	722.3	1394.0	2346.5	3739.1	5242.3	5338.2
67.5°	440.8	436.7	440.5	414.1	366.5	776.5	1856.4	3800.1	5726.6	5784.9
70°	391.8	387.0	399.4	376.8	288.4	353.1	1199.4	3578.8	6111.9	6221.2
72.5°	319.2	313.7	342.5	332.2	242.8	226.7	602.5	3053.1	6071.5	6298.3
75°	245.2	242.1	276.4	285.0	198.0	178.4	289.1	2269.4	5343.0	5571.5
77.5°	190.4	188.0	205.5	236.7	159.6	138.4	177.8	1439.5	4026.5	4066.5
80°	142.8	136.0	152.1	183.2	124.3	101.0	120.6	839.5	2545.1	2307.1
82.5°	89.4	86.0	99.3	122.3	87.7	69.5	78.4	463.7	1020.0	600.7
85°	51.0	49.7	54.1	69.9	47.6	40.1	44.9	204.8	186.3	128.1
87.5°	20.6	19.9	24.7	31.2	17.5	14.7	15.8	49.3	41.1	38.0
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°
1299.8	0°	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8	1299.8
1304.9	2.5°	1303.6	1303.6	1298.8	1291.2	1282.7	1277.2	1268.3	1265.9	1256.6	1253.9
1316.6	5°	1319.3	1316.6	1301.8	1280.6	1251.5	1224.8	1195.3	1176.8	1150.8	1141.6
1339.5	7.5°	1339.2	1331.6	1306.3	1259.7	1198.8	1138.8	1076.5	1029.2	984.0	967.9
1358.4	10°	1357.3	1346.7	1303.6	1222.0	1116.6	1012.8	913.5	843.9	791.2	769.6
1379.3	12.5°	1375.5	1356.0	1285.4	1159.4	999.8	859.0	753.2	699.0	666.5	640.5
1396.4	15°	1392.6	1365.2	1257.3	1075.5	871.7	728.8	650.8	607.6	581.6	564.4
1421.4	17.5°	1412.5	1373.1	1215.2	968.9	749.7	638.8	575.1	549.0	543.9	541.8
1455.6	20°	1440.2	1380.3	1159.7	849.7	660.0	566.8	534.0	531.6	531.2	530.2
1496.7	22.5°	1470.0	1388.8	1086.4	741.5	583.6	522.0	516.2	511.4	508.3	507.9
1546.4	25°	1505.3	1391.6	994.6	652.8	518.5	500.7	493.9	486.7	484.6	484.6
1602.9	27.5°	1539.5	1382.3	887.8	575.7	481.9	481.2	472.3	469.9	469.6	470.6
1667.3	30°	1573.8	1364.9	781.6	504.5	460.7	460.7	457.6	459.3	460.7	464.1
1755.7	32.5°	1620.0	1346.4	692.9	451.8	442.2	438.7	441.8	445.3	446.6	451.1
1871.8	35°	1687.8	1333.4	622.3	423.0	423.0	418.5	420.2	419.6	416.5	414.4
2012.2	37.5°	1777.6	1332.7	564.1	409.6	406.9	406.2	406.5	402.1	390.1	375.7
2182.1	40°	1885.5	1351.2	519.2	400.4	398.3	402.4	400.4	388.4	355.5	330.5
2391.0	42.5°	2030.4	1403.9	490.5	389.1	395.2	400.4	392.2	350.7	328.5	311.7
2629.0	45°	2200.9	1489.5	475.7	377.1	389.4	395.6	355.9	337.7	319.9	299.7
2888.7	47.5°	2394.1	1597.4	472.3	365.8	376.4	380.2	340.4	332.2	312.0	290.1
3149.6	50°	2604.4	1725.2	481.6	352.4	357.6	344.6	335.3	327.8	306.9	285.3
3417.1	52.5°	2821.9	1866.0	500.1	334.3	338.7	324.3	333.3	326.7	303.8	274.7
3693.5	55°	3035.6	2007.7	517.9	313.0	319.6	306.2	327.4	322.6	289.8	256.9
3988.4	57.5°	3252.7	2148.9	535.3	294.2	301.1	288.7	318.2	311.7	274.0	240.4
4310.4	60°	3478.4	2285.9	543.6	276.1	280.9	272.6	304.1	292.8	256.2	223.7
4626.9	62.5°	3689.8	2399.9	530.2	257.9	261.0	257.6	285.6	270.6	238.4	204.8
4956.7	65°	3901.8	2467.7	489.1	240.1	240.8	239.1	259.6	246.6	217.5	188.4
5245.4	67.5°	4093.9	2505.7	423.7	220.9	219.2	218.5	235.3	220.6	197.3	171.9
5465.0	70°	4134.7	2409.2	323.7	198.3	198.3	196.6	208.6	193.5	175.0	154.5
5307.8	72.5°	3776.4	2026.6	229.8	172.6	175.4	171.9	181.9	169.2	152.4	138.7
4574.5	75°	3045.2	1486.1	167.1	146.2	151.0	145.2	154.5	145.6	131.2	130.8
3152.4	77.5°	2092.3	918.9	121.2	120.6	124.0	116.5	127.1	122.3	109.3	103.4
1372.1	80°	892.9	366.5	88.4	93.2	93.2	86.3	98.6	100.0	88.7	86.0
264.8	82.5°	177.8	104.1	62.0	64.0	60.3	58.2	69.9	77.4	106.9	118.8
79.8	85°	53.4	38.4	37.3	34.9	30.8	31.2	41.1	77.7	95.9	54.8
26.4	87.5°	14.7	9.6	9.9	7.9	6.5	8.6	14.0	58.9	32.2	13.7
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>
1299.8
1258.4
1148.4
970.0
774.4
649.0
567.5
543.2
533.6
511.7
486.7
473.3
466.5
454.8
419.2
376.1
329.8
311.0
298.3
288.4
282.9
272.6
255.2
239.8
222.6
204.5
186.3
169.9
153.8
134.6
117.8
96.9
86.0
119.2
47.3
11.6
0.0

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