

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: P945718

Luminaire Tested: **GALN-SB1C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945718
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6691 lumens
Efficiency: N/A
Efficacy: 123.0 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

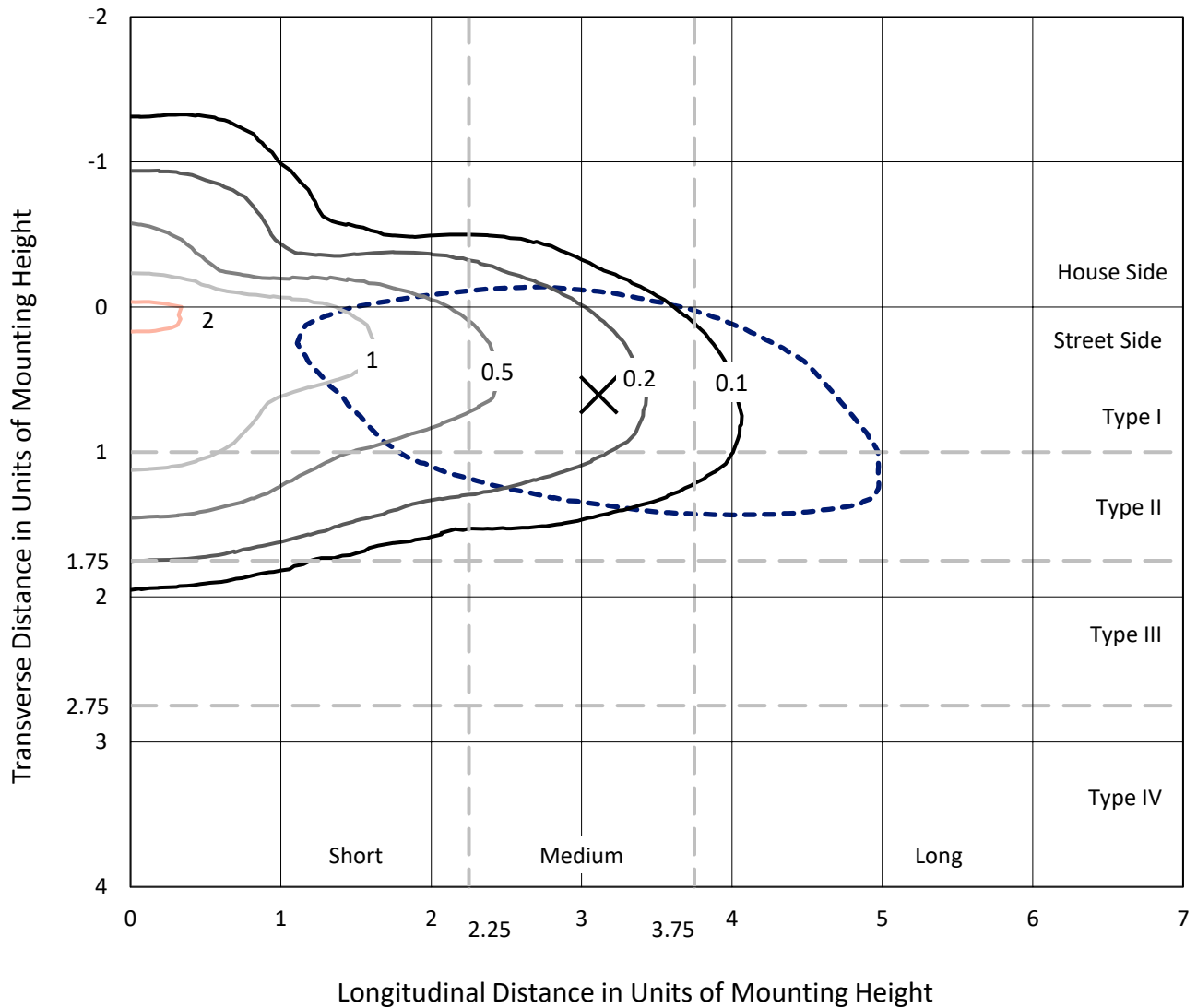
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

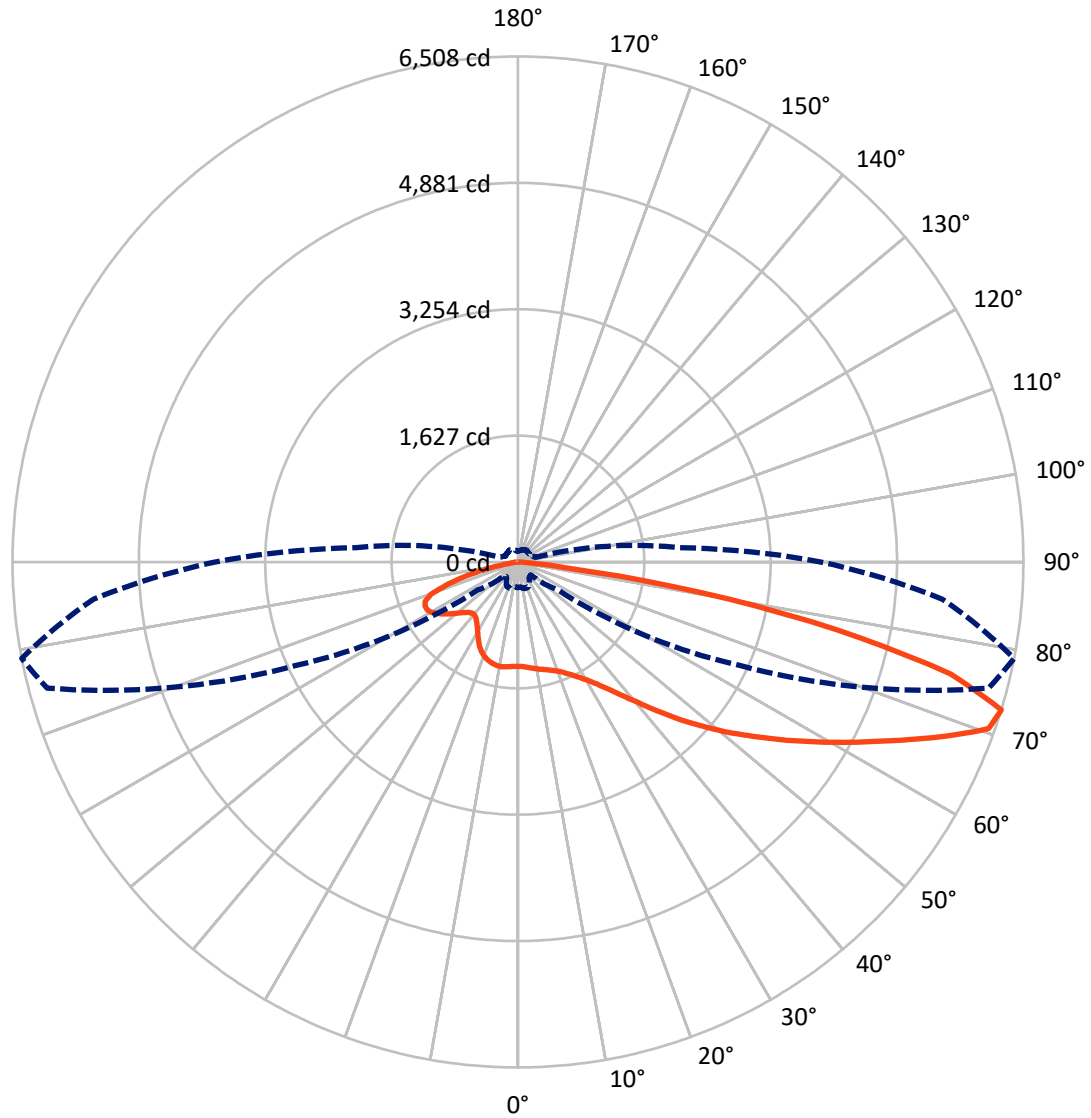
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1472.4	0.0	1472.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5218.6	0.0	5218.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	6691.0	0.0	6691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.8
10°-20°	318.8	4.8
20°-30°	514.3	7.7
30°-40°	772.0	11.5
40°-50°	1095.1	16.4
50°-60°	1382.9	20.7
60°-70°	1404.6	21.0
70°-80°	957.3	14.3
80°-90°	124.2	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°	6691.0	100.0
0°-180°	6691.0	100.0

Coefficient of Utilization



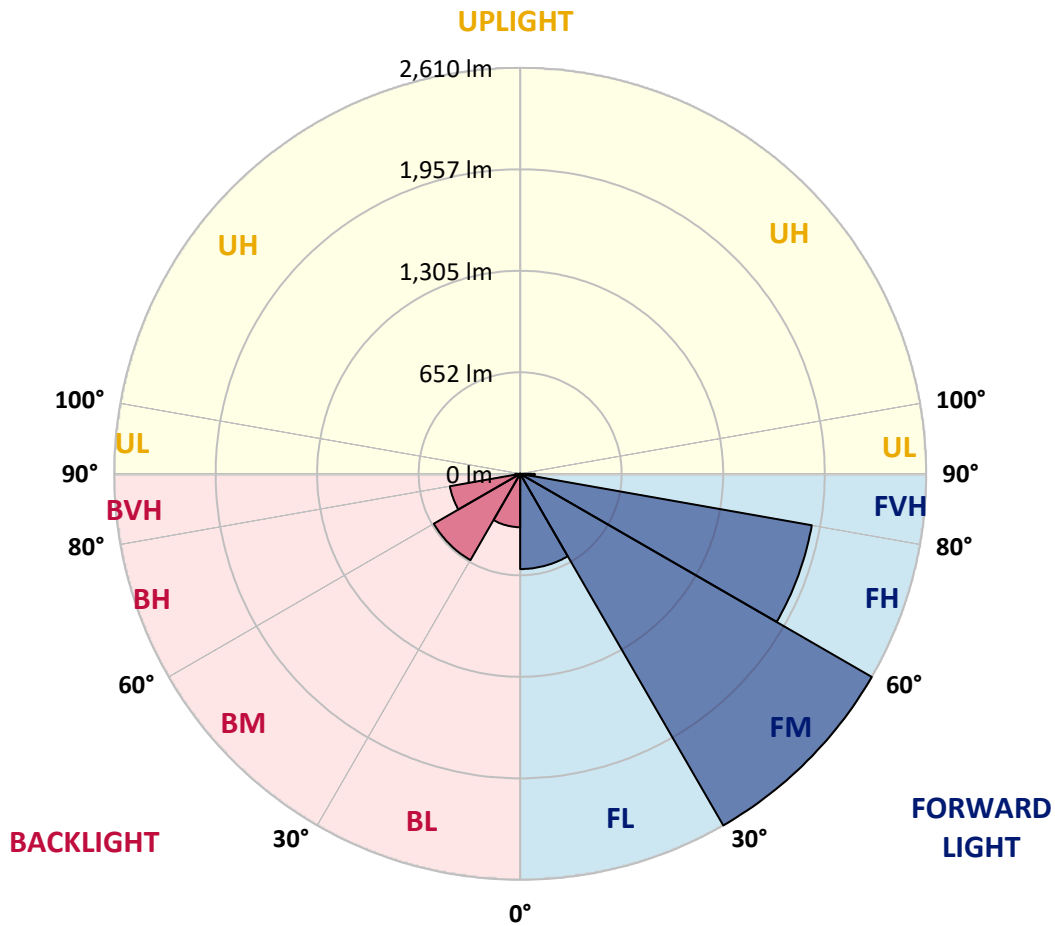
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.1	9.1			
FM (30°-60°)	2609.6	39.0			
FH (60°-80°)	1903.4	28.4			G2/5000
FVH (80°-90°)	93.6	1.4			G1/100
BL (0°-30°)	343.0	5.1	B1/500		
BM (30°-60°)	640.3	9.6	B1/1000		
BH (60°-80°)	458.5	6.9	B1/500		G1/500
BVH (80°-90°)	30.6	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°	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2
2.5°	1343.9	1337.5	1341.4	1340.0	1341.7	1343.9	1344.6	1345.6	1349.2	1348.8
5°	1341.0	1334.7	1340.0	1338.2	1342.8	1347.8	1352.0	1355.9	1361.6	1364.0
7.5°	1335.0	1330.8	1336.1	1341.4	1349.9	1357.3	1363.3	1372.2	1380.3	1381.7
10°	1300.0	1296.8	1309.2	1323.0	1346.3	1366.5	1379.6	1389.9	1398.7	1400.1
12.5°	1263.5	1259.6	1273.4	1292.2	1330.1	1366.5	1394.1	1407.6	1415.4	1420.0
15°	1257.5	1254.3	1262.1	1278.4	1309.9	1357.0	1404.0	1428.8	1435.5	1440.8
17.5°	1286.5	1280.5	1283.7	1289.4	1307.8	1348.1	1411.8	1452.9	1463.1	1468.8
20°	1353.8	1345.3	1340.3	1329.0	1325.8	1349.5	1411.1	1481.9	1495.3	1502.4
22.5°	1443.3	1437.7	1427.0	1398.4	1367.2	1366.9	1424.6	1519.1	1544.2	1550.9
25°	1551.6	1543.1	1529.7	1490.7	1430.9	1401.2	1447.2	1566.5	1608.6	1610.4
27.5°	1676.2	1663.5	1645.1	1593.7	1513.0	1455.0	1481.9	1621.0	1682.6	1681.9
30°	1807.5	1794.8	1775.3	1713.0	1611.4	1527.6	1530.0	1679.7	1770.3	1766.5
32.5°	1903.4	1893.9	1890.0	1841.8	1724.7	1613.2	1585.2	1744.9	1878.6	1875.1
35°	1977.0	1964.7	1969.3	1944.8	1848.2	1709.1	1652.8	1822.4	2010.3	2010.0
37.5°	2049.9	2039.0	2042.9	2026.6	1962.5	1830.9	1735.3	1917.2	2173.5	2181.3
40°	2116.5	2104.8	2120.4	2105.2	2051.4	1960.4	1829.1	2024.5	2362.5	2377.3
42.5°	2156.5	2147.3	2173.1	2173.5	2128.5	2069.8	1932.1	2142.7	2581.2	2614.5
45°	2170.3	2167.1	2206.0	2214.2	2196.8	2133.1	2024.8	2271.5	2816.9	2876.4
47.5°	2155.4	2149.4	2203.2	2233.3	2247.1	2162.9	2101.6	2411.0	3057.6	3144.6
50°	2080.4	2068.7	2148.7	2212.0	2261.2	2182.3	2179.1	2572.0	3331.2	3426.4
52.5°	1945.5	1936.7	2027.7	2137.7	2230.1	2191.9	2266.2	2747.9	3590.9	3714.1
55°	1773.2	1761.5	1861.7	2005.4	2152.6	2188.7	2353.3	2944.7	3897.4	4022.4
57.5°	1499.9	1476.6	1603.3	1773.2	2026.2	2184.8	2443.9	3140.4	4208.9	4358.6
60°	1101.4	1066.7	1222.1	1423.5	1779.2	2146.9	2556.1	3359.8	4582.7	4717.5
62.5°	641.3	621.1	722.7	910.7	1341.0	1923.9	2619.1	3615.0	4950.0	5091.6
65°	498.0	492.3	501.2	515.7	746.4	1440.5	2424.8	3863.8	5417.2	5516.3
67.5°	455.5	451.3	455.2	427.9	378.7	802.4	1918.3	3926.8	5917.7	5977.8
70°	404.9	399.9	412.7	389.3	298.0	364.9	1239.5	3698.2	6315.8	6428.7
72.5°	329.9	324.2	353.9	343.3	250.9	234.3	622.6	3154.9	6274.1	6508.4
75°	253.4	250.2	285.6	294.5	204.6	184.4	298.7	2345.1	5521.3	5757.3
77.5°	196.8	194.3	212.4	244.6	164.9	143.0	183.7	1487.6	4160.8	4202.2
80°	147.6	140.5	157.1	189.4	128.5	104.4	124.6	867.5	2630.0	2384.1
82.5°	92.4	88.8	102.6	126.4	90.6	71.8	81.0	479.2	1054.0	620.8
85°	52.7	51.3	55.9	72.2	49.2	41.4	46.4	211.6	192.5	132.4
87.5°	21.2	20.5	25.5	32.2	18.1	15.2	16.3	51.0	42.5	39.3
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°
1343.2	0°	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2	1343.2
1348.5	2.5°	1347.0	1347.0	1342.1	1334.3	1325.5	1319.8	1310.6	1308.1	1298.6	1295.7
1360.5	5°	1363.3	1360.5	1345.3	1323.3	1293.3	1265.6	1235.2	1216.1	1189.2	1179.6
1384.2	7.5°	1383.9	1376.1	1349.9	1301.7	1238.7	1176.8	1112.4	1063.6	1016.8	1000.2
1403.7	10°	1402.6	1391.6	1347.0	1262.8	1153.8	1046.6	943.9	872.1	817.6	795.3
1425.3	12.5°	1421.4	1401.2	1328.3	1198.0	1033.1	887.7	778.3	722.4	688.7	661.8
1443.0	15°	1439.1	1410.8	1299.3	1111.3	900.7	753.2	672.5	627.9	601.0	583.3
1468.8	17.5°	1459.6	1418.9	1255.7	1001.3	774.7	660.1	594.2	567.3	562.0	559.9
1504.2	20°	1488.3	1426.3	1198.4	878.1	682.0	585.7	551.8	549.3	548.9	547.9
1546.7	22.5°	1519.1	1435.2	1122.7	766.3	603.1	539.4	533.4	528.4	525.2	524.9
1598.0	25°	1555.5	1438.0	1027.8	674.6	535.8	517.4	510.4	502.9	500.8	500.8
1656.4	27.5°	1590.9	1428.5	917.4	595.0	498.0	497.3	488.1	485.6	485.2	486.3
1722.9	30°	1626.3	1410.4	807.7	521.3	476.0	476.0	472.8	474.6	476.0	479.6
1814.2	32.5°	1674.1	1391.3	716.0	466.8	456.9	453.4	456.6	460.1	461.5	466.1
1934.2	35°	1744.2	1377.8	643.1	437.1	437.1	432.5	434.3	433.6	430.4	428.3
2079.3	37.5°	1836.9	1377.1	582.9	423.3	420.5	419.8	420.1	415.5	403.1	388.3
2254.9	40°	1948.4	1396.2	536.6	413.7	411.6	415.9	413.7	401.4	367.4	341.5
2470.8	42.5°	2098.1	1450.7	506.8	402.1	408.4	413.7	405.2	362.4	339.4	322.1
2716.7	45°	2274.3	1539.2	491.6	389.7	402.4	408.8	367.7	349.0	330.6	309.7
2985.0	47.5°	2474.0	1650.7	488.1	378.0	389.0	392.9	351.8	343.3	322.4	299.8
3254.7	50°	2691.3	1782.7	497.6	364.2	369.5	356.1	346.5	338.7	317.1	294.8
3531.1	52.5°	2916.0	1928.2	516.7	345.4	350.0	335.2	344.4	337.6	313.9	283.8
3816.8	55°	3136.9	2074.7	535.1	323.5	330.2	316.4	338.4	333.4	299.4	265.4
4121.5	57.5°	3361.2	2220.5	553.2	304.0	311.1	298.4	328.8	322.1	283.1	248.5
4454.2	60°	3594.5	2362.1	561.7	285.3	290.2	281.7	314.3	302.6	264.7	231.1
4781.2	62.5°	3812.9	2480.0	547.9	266.5	269.7	266.2	295.2	279.6	246.3	211.6
5122.0	65°	4031.9	2550.0	505.4	248.1	248.8	247.0	268.3	254.8	224.7	194.7
5420.4	67.5°	4230.5	2589.3	437.8	228.3	226.5	225.8	243.1	227.9	203.9	177.7
5647.3	70°	4272.6	2489.5	334.5	204.9	204.9	203.2	215.5	200.0	180.9	159.6
5484.8	72.5°	3902.4	2094.2	237.5	178.4	181.2	177.7	187.9	174.8	157.5	143.3
4727.1	75°	3146.8	1535.7	172.7	151.1	156.1	150.1	159.6	150.4	135.6	135.2
3257.5	77.5°	2162.1	949.6	125.3	124.6	128.1	120.3	131.3	126.4	112.9	106.9
1417.8	80°	922.7	378.7	91.3	96.3	96.3	89.2	101.9	103.3	91.7	88.8
273.6	82.5°	183.7	107.6	64.1	66.2	62.3	60.2	72.2	80.0	110.4	122.8
82.5	85°	55.2	39.6	38.6	36.1	31.9	32.2	42.5	80.3	99.1	56.6
27.3	87.5°	15.2	9.9	10.3	8.1	6.7	8.8	14.5	60.9	33.3	14.2
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>
1343.2
1300.3
1186.7
1002.3
800.2
670.7
586.5
561.3
551.4
528.8
502.9
489.1
482.0
470.0
433.2
388.6
340.8
321.4
308.3
298.0
292.3
281.7
263.7
247.7
230.1
211.3
192.5
175.5
158.9
139.1
121.8
100.2
88.8
123.2
48.8
12.0
0.0

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