

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: P946243

Luminaire Tested: **GALN-SB1D-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946243
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-SB1D-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7038 lumens
Efficiency: N/A
Efficacy: 88.4 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

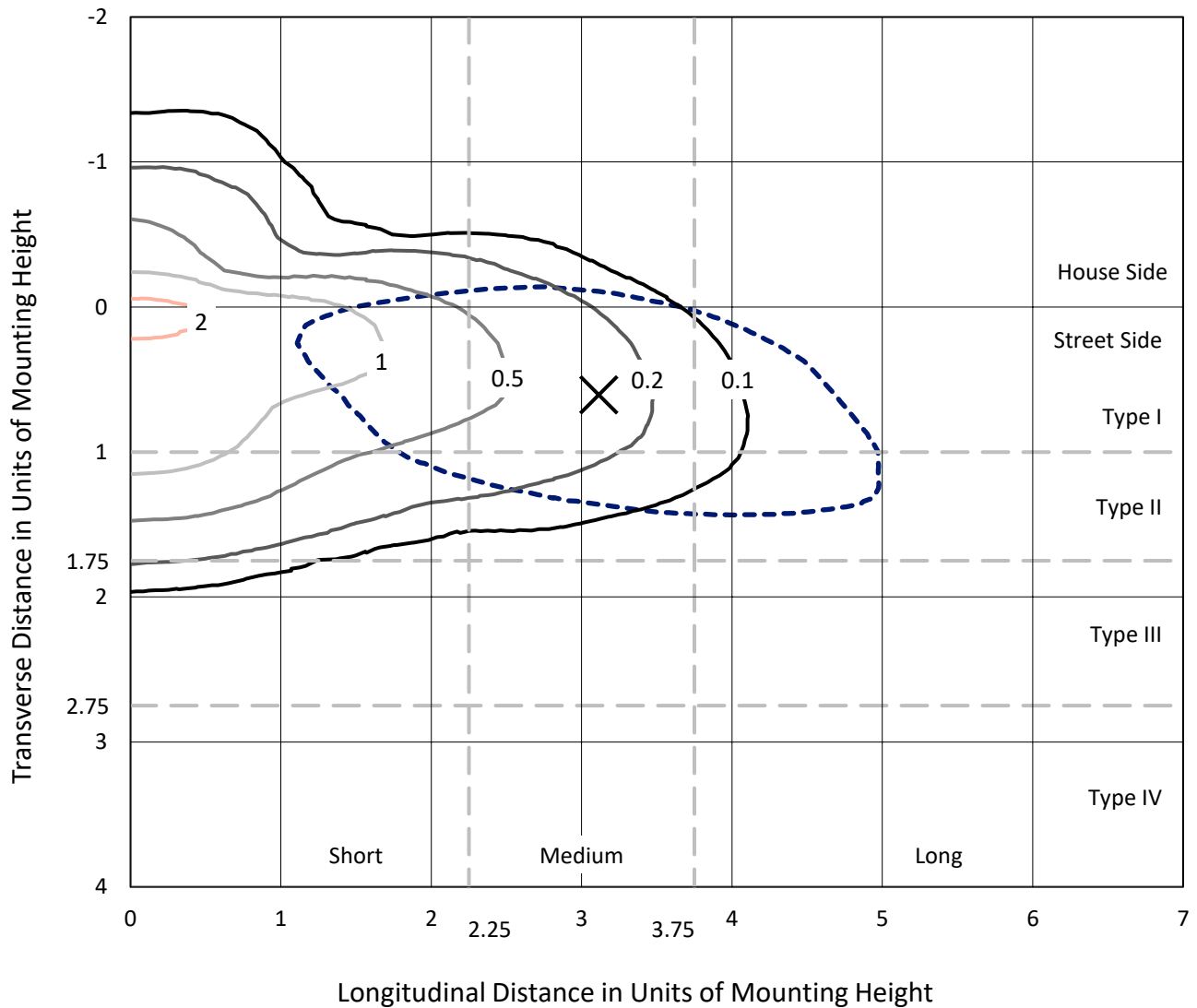
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

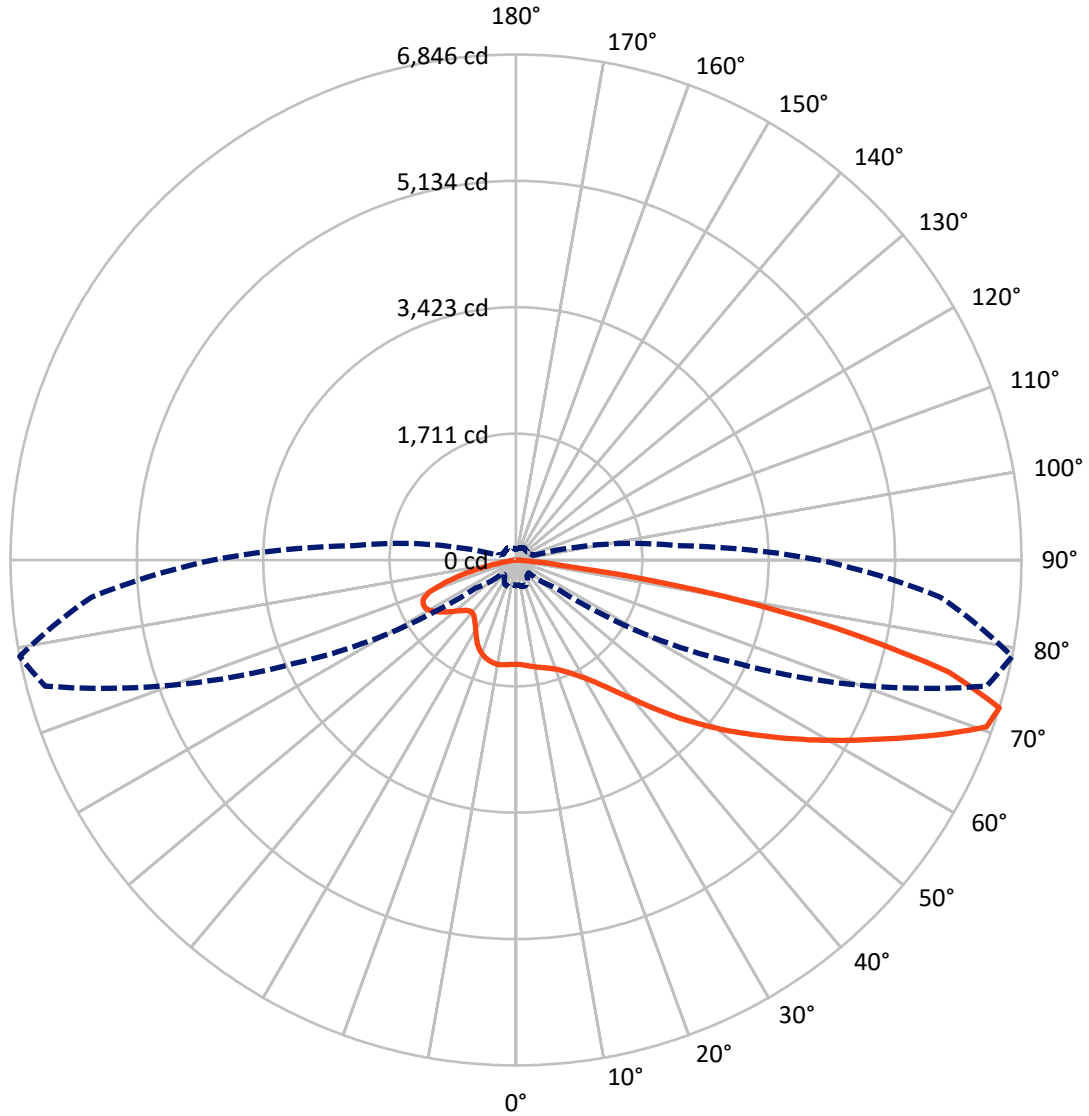
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1548.7	0.0	1548.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5489.3	0.0	5489.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	7038.0	0.0	7038.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	1.8
10°-20°	335.3	4.8
20°-30°	541.0	7.7
30°-40°	812.0	11.5
40°-50°	1151.9	16.4
50°-60°	1454.6	20.7
60°-70°	1477.4	21.0
70°-80°	1006.9	14.3
80°-90°	130.6	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°	7038.0	100.0
0°-180°	7038.0	100.0



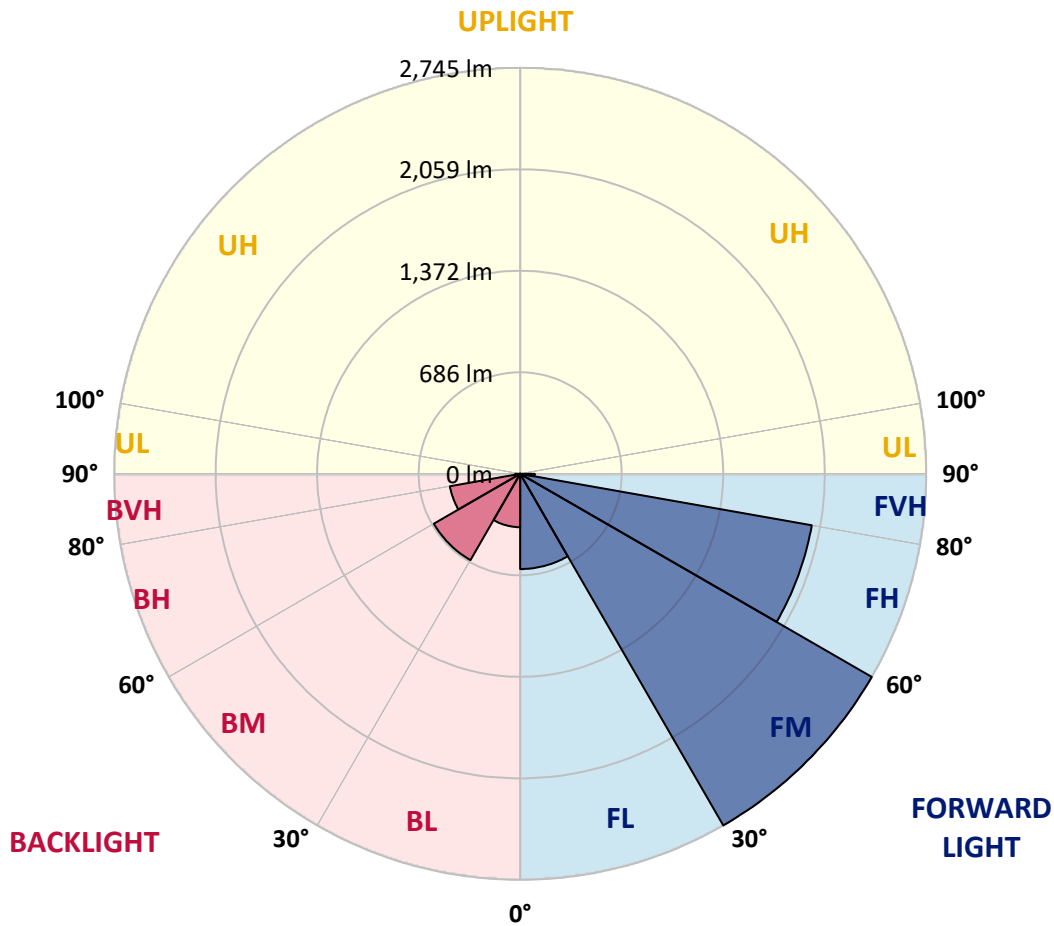
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.8	9.1			
FM (30°-60°)	2745.0	39.0			
FH (60°-80°)	2002.1	28.4			G2/5000
FVH (80°-90°)	98.4	1.4			G1/100
BL (0°-30°)	360.7	5.1	B1/500		
BM (30°-60°)	673.5	9.6	B1/1000		
BH (60°-80°)	482.2	6.9	B1/500		G1/500
BVH (80°-90°)	32.2	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°	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8
2.5°	1413.6	1406.9	1411.0	1409.5	1411.3	1413.6	1414.3	1415.4	1419.1	1418.8
5°	1410.6	1403.9	1409.5	1407.6	1412.4	1417.7	1422.1	1426.2	1432.2	1434.8
7.5°	1404.2	1399.8	1405.4	1411.0	1419.9	1427.7	1434.0	1443.3	1451.9	1453.4
10°	1367.4	1364.0	1377.1	1391.6	1416.2	1437.4	1451.2	1462.0	1471.3	1472.7
12.5°	1329.0	1325.0	1339.5	1359.2	1399.0	1437.4	1466.4	1480.6	1488.8	1493.6
15°	1322.7	1319.4	1327.6	1344.7	1377.8	1427.3	1476.8	1502.9	1510.0	1515.6
17.5°	1353.2	1346.9	1350.3	1356.2	1375.6	1418.0	1485.0	1528.2	1539.0	1545.0
20°	1424.0	1415.0	1409.8	1397.9	1394.6	1419.5	1484.3	1558.7	1572.9	1580.3
22.5°	1518.2	1512.2	1501.0	1470.9	1438.1	1437.8	1498.4	1597.8	1624.3	1631.3
25°	1632.1	1623.2	1609.0	1568.1	1505.1	1473.9	1522.3	1647.7	1692.0	1693.9
27.5°	1763.1	1749.7	1730.4	1676.4	1591.5	1530.5	1558.7	1705.1	1769.8	1769.1
30°	1901.2	1887.8	1867.4	1801.8	1695.0	1606.8	1609.4	1766.9	1862.2	1858.1
32.5°	2002.1	1992.1	1988.0	1937.4	1814.1	1696.9	1667.5	1835.4	1976.1	1972.4
35°	2079.6	2066.5	2071.4	2045.7	1944.1	1797.8	1738.6	1916.9	2114.6	2114.2
37.5°	2156.3	2144.7	2148.8	2131.7	2064.3	1925.8	1825.3	2016.7	2286.2	2294.4
40°	2226.2	2214.0	2230.3	2214.3	2157.7	2062.1	1924.0	2129.5	2485.0	2500.6
42.5°	2268.3	2258.6	2285.8	2286.2	2238.9	2177.1	2032.3	2253.8	2715.1	2750.0
45°	2282.8	2279.5	2320.4	2329.0	2310.8	2243.7	2129.8	2389.3	2963.0	3025.5
47.5°	2267.2	2260.9	2317.5	2349.1	2363.6	2275.0	2210.6	2536.0	3216.1	3307.7
50°	2188.3	2176.0	2260.1	2326.8	2378.5	2295.5	2292.1	2705.4	3503.9	3604.1
52.5°	2046.4	2037.1	2132.8	2248.6	2345.8	2305.5	2383.7	2890.4	3777.2	3906.7
55°	1865.1	1852.8	1958.2	2109.4	2264.2	2302.2	2475.3	3097.4	4099.6	4231.0
57.5°	1577.7	1553.2	1686.4	1865.1	2131.3	2298.1	2570.6	3303.3	4427.2	4584.7
60°	1158.5	1122.1	1285.5	1497.3	1871.5	2258.3	2688.6	3534.1	4820.3	4962.2
62.5°	674.6	653.4	760.2	957.9	1410.6	2023.7	2754.9	3802.5	5206.7	5355.7
65°	523.8	517.8	527.2	542.4	785.1	1515.2	2550.5	4064.2	5698.2	5802.4
67.5°	479.1	474.7	478.8	450.1	398.3	844.0	2017.8	4130.5	6224.6	6287.8
70°	425.9	420.7	434.1	409.5	313.5	383.8	1303.7	3890.0	6643.4	6762.1
72.5°	347.0	341.0	372.3	361.1	263.9	246.5	654.8	3318.5	6599.4	6845.9
75°	266.6	263.2	300.4	309.7	215.2	194.0	314.2	2466.7	5807.6	6055.9
77.5°	207.0	204.4	223.4	257.2	173.5	150.4	193.2	1564.7	4376.6	4420.1
80°	155.2	147.8	165.3	199.2	135.1	109.8	131.0	912.5	2766.4	2507.7
82.5°	97.2	93.4	108.0	132.9	95.3	75.6	85.3	504.1	1108.7	653.0
85°	55.5	54.0	58.8	75.9	51.7	43.6	48.8	222.6	202.5	139.2
87.5°	22.3	21.6	26.8	33.9	19.0	16.0	17.1	53.6	44.7	41.3
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°
1412.8	0°	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8	1412.8
1418.4	2.5°	1416.9	1416.9	1411.7	1403.5	1394.2	1388.2	1378.6	1376.0	1365.9	1362.9
1431.1	5°	1434.0	1431.1	1415.0	1392.0	1360.3	1331.3	1299.3	1279.2	1250.9	1240.8
1456.0	7.5°	1455.6	1447.4	1419.9	1369.3	1303.0	1237.8	1170.1	1118.7	1069.6	1052.1
1476.5	10°	1475.4	1463.8	1416.9	1328.3	1213.6	1100.8	992.9	917.3	860.0	836.5
1499.2	12.5°	1495.1	1473.9	1397.2	1260.2	1086.7	933.7	818.6	759.8	724.5	696.2
1517.8	15°	1513.7	1483.9	1366.6	1169.0	947.5	792.2	707.3	660.4	632.1	613.5
1545.0	17.5°	1535.3	1492.5	1320.9	1053.2	814.9	694.3	625.1	596.8	591.2	589.0
1582.2	20°	1565.4	1500.3	1260.5	923.6	717.4	616.1	580.4	577.8	577.4	576.3
1626.9	22.5°	1597.8	1509.6	1180.9	806.0	634.4	567.4	561.0	555.8	552.5	552.1
1680.9	25°	1636.2	1512.6	1081.1	709.6	563.6	544.3	536.8	529.0	526.8	526.8
1742.3	27.5°	1673.4	1502.5	965.0	625.8	523.8	523.1	513.4	510.8	510.4	511.5
1812.3	30°	1710.6	1483.5	849.5	548.4	500.7	500.7	497.4	499.2	500.7	504.4
1908.3	32.5°	1760.9	1463.4	753.1	491.0	480.6	476.9	480.2	484.0	485.5	490.3
2034.5	35°	1834.6	1449.3	676.4	459.8	459.8	454.9	456.8	456.0	452.7	450.5
2187.2	37.5°	1932.1	1448.6	613.1	445.2	442.3	441.5	441.9	437.1	424.0	408.4
2371.8	40°	2049.4	1468.7	564.4	435.2	433.0	437.4	435.2	422.2	386.4	359.3
2598.9	42.5°	2206.9	1526.0	533.1	422.9	429.6	435.2	426.3	381.2	357.0	338.8
2857.6	45°	2392.3	1619.1	517.1	409.9	423.3	430.0	386.8	367.1	347.7	325.7
3139.8	47.5°	2602.3	1736.3	513.4	397.6	409.1	413.2	370.0	361.1	339.1	315.3
3423.5	50°	2830.8	1875.2	523.4	383.1	388.7	374.5	364.5	356.3	333.6	310.1
3714.3	52.5°	3067.2	2028.2	543.5	363.3	368.2	352.6	362.2	355.2	330.2	298.6
4014.7	55°	3299.5	2182.3	562.9	340.3	347.3	332.8	355.9	350.7	315.0	279.2
4335.2	57.5°	3535.6	2335.7	581.9	319.8	327.2	313.8	345.9	338.8	297.8	261.3
4685.2	60°	3780.9	2484.6	590.8	300.1	305.3	296.3	330.6	318.3	278.5	243.1
5029.2	62.5°	4010.6	2608.6	576.3	280.3	283.7	280.0	310.5	294.1	259.1	222.6
5387.7	65°	4241.0	2682.3	531.6	261.0	261.7	259.9	282.2	268.0	236.4	204.8
5701.5	67.5°	4449.9	2723.6	460.5	240.1	238.3	237.5	255.8	239.7	214.4	186.9
5940.1	70°	4494.2	2618.6	351.8	215.6	215.6	213.7	226.7	210.3	190.2	167.9
5769.3	72.5°	4104.8	2202.8	249.8	187.6	190.6	186.9	197.7	183.9	165.7	150.8
4972.2	75°	3310.0	1615.3	181.7	159.0	164.2	157.8	167.9	158.2	142.6	142.2
3426.5	77.5°	2274.3	998.8	131.8	131.0	134.8	126.6	138.1	132.9	118.8	112.4
1491.4	80°	970.5	398.3	96.0	101.3	101.3	93.8	107.2	108.7	96.4	93.4
287.8	82.5°	193.2	113.2	67.4	69.6	65.5	63.3	75.9	84.1	116.2	129.2
86.7	85°	58.1	41.7	40.6	38.0	33.5	33.9	44.7	84.5	104.2	59.6
28.7	87.5°	16.0	10.4	10.8	8.6	7.1	9.3	15.3	64.0	35.0	14.9
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>
1412.8
1367.8
1248.3
1054.3
841.7
705.5
616.9
590.4
580.0
556.2
529.0
514.5
507.0
494.4
455.7
408.8
358.5
338.0
324.3
313.5
307.5
296.3
277.4
260.6
242.0
222.3
202.5
184.7
167.2
146.3
128.1
105.4
93.4
129.6
51.4
12.7
0.0

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