

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: P946222

Luminaire Tested: **GALN-SB1D-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946222
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-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7332 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

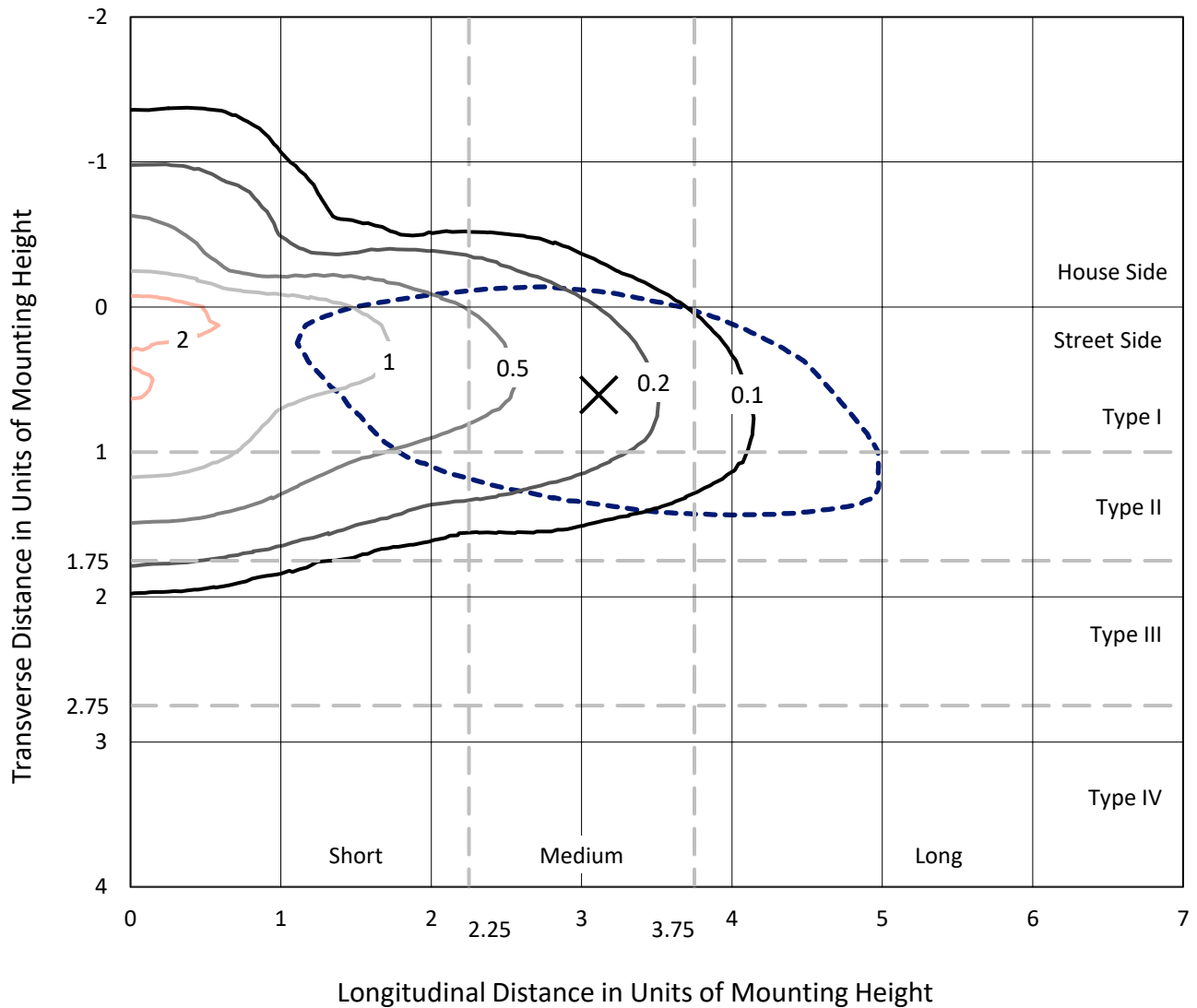
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

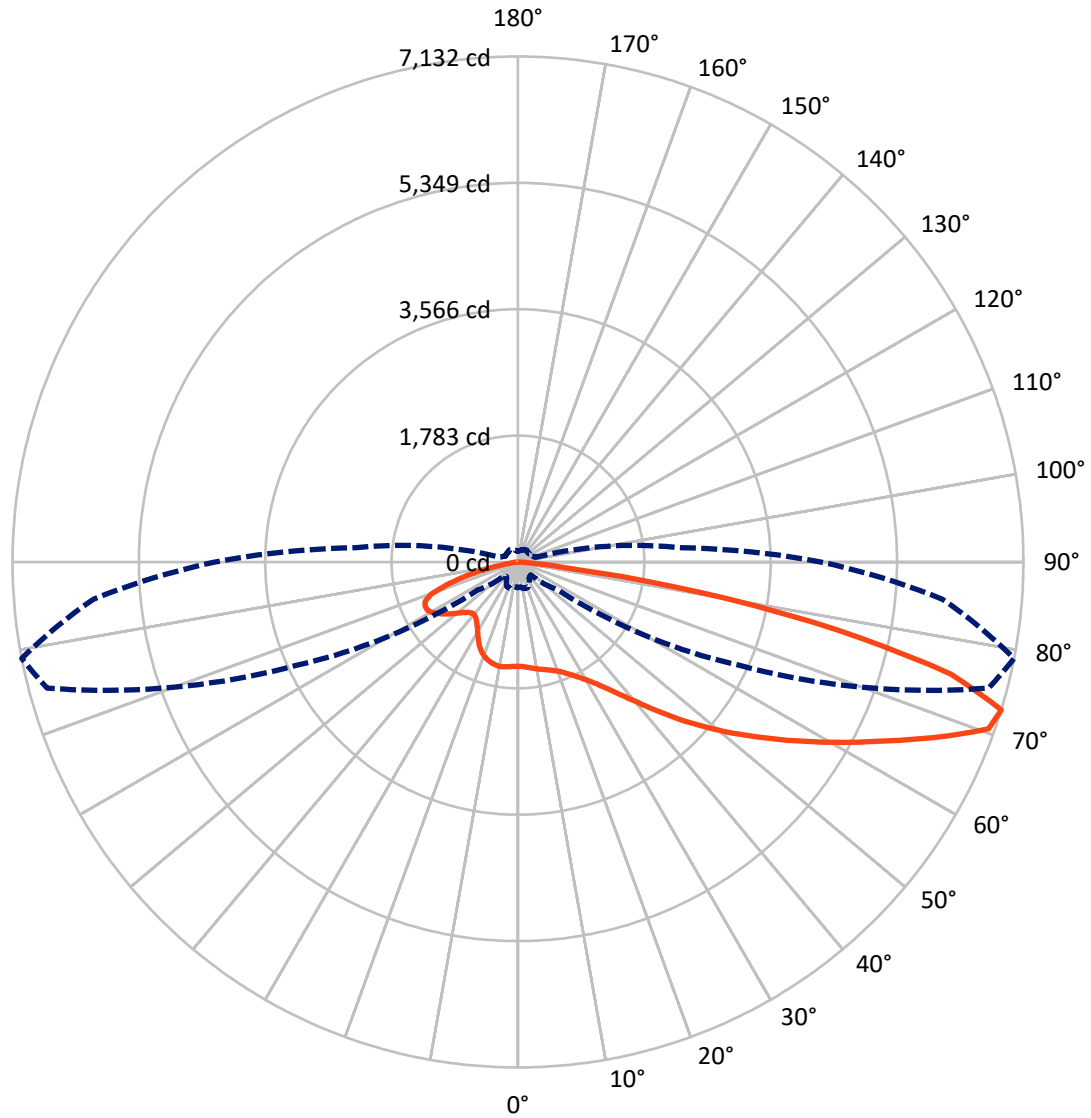
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1613.4	0.0	1613.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5718.6	0.0	5718.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	7332.0	0.0	7332.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.8
10°-20°	349.3	4.8
20°-30°	563.6	7.7
30°-40°	845.9	11.5
40°-50°	1200.0	16.4
50°-60°	1515.4	20.7
60°-70°	1539.1	21.0
70°-80°	1049.0	14.3
80°-90°	136.1	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°	7332.0	100.0
0°-180°	7332.0	100.0



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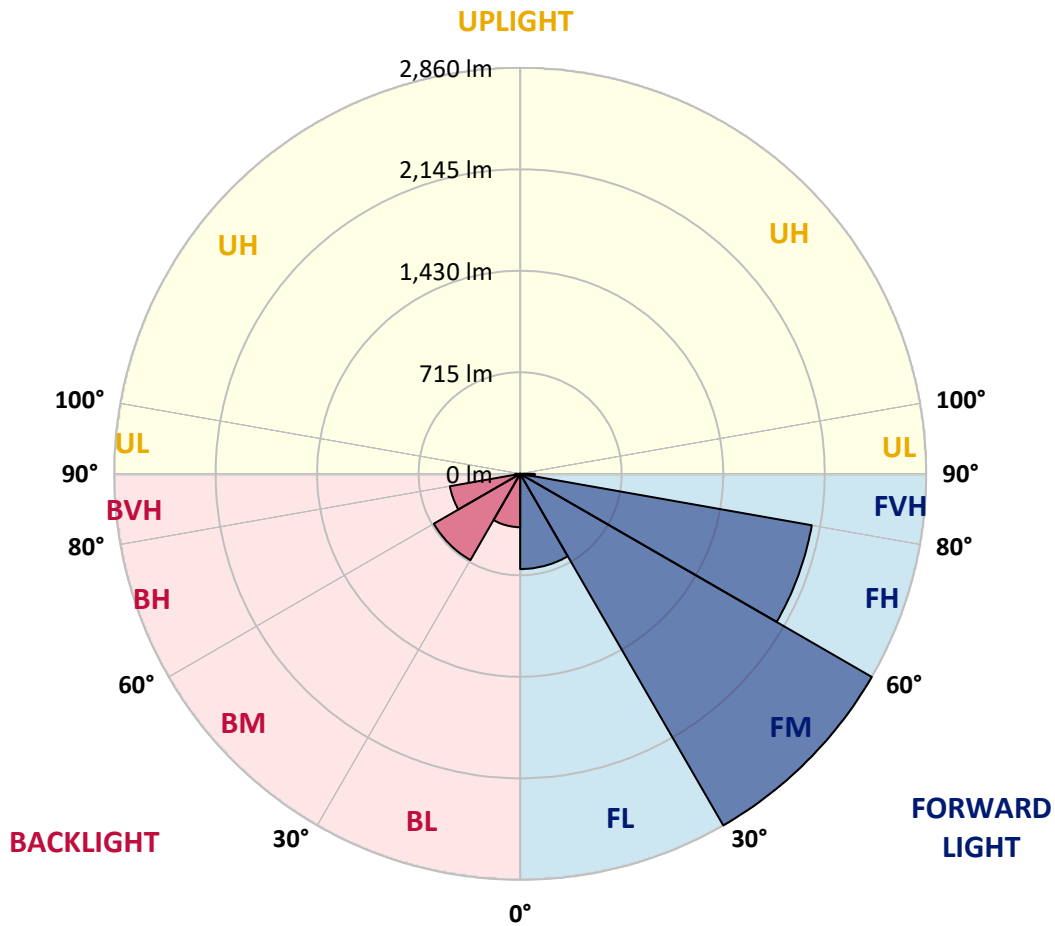
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.7	9.1			
FM (30°-60°)	2859.6	39.0			
FH (60°-80°)	2085.7	28.4			G2/5000
FVH (80°-90°)	102.5	1.4			G2/225
BL (0°-30°)	375.8	5.1	B1/500		
BM (30°-60°)	701.7	9.6	B1/1000		
BH (60°-80°)	502.4	6.9	B2/1000		G2/1000
BVH (80°-90°)	33.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1472.6	1465.6	1469.9	1468.3	1470.3	1472.6	1473.4	1474.5	1478.4	1478.0
5°	1469.5	1462.5	1468.3	1466.4	1471.4	1476.9	1481.5	1485.8	1492.0	1494.7
7.5°	1462.9	1458.3	1464.1	1469.9	1479.2	1487.3	1493.9	1503.6	1512.6	1514.1
10°	1424.5	1421.0	1434.6	1449.7	1475.3	1497.4	1511.8	1523.0	1532.7	1534.3
12.5°	1384.6	1380.3	1395.4	1416.0	1457.5	1497.4	1527.7	1542.4	1550.9	1556.0
15°	1378.0	1374.5	1383.0	1400.9	1435.4	1487.0	1538.5	1565.7	1573.1	1578.9
17.5°	1409.8	1403.2	1406.7	1412.9	1433.0	1477.3	1547.1	1592.1	1603.3	1609.5
20°	1483.5	1474.2	1468.7	1456.3	1452.8	1478.8	1546.3	1623.9	1638.6	1646.4
22.5°	1581.6	1575.4	1563.7	1532.3	1498.2	1497.8	1561.0	1664.6	1692.1	1699.5
25°	1700.3	1691.0	1676.2	1633.6	1568.0	1535.4	1585.9	1716.6	1762.7	1764.6
27.5°	1836.8	1822.8	1802.7	1746.4	1658.0	1594.4	1623.9	1776.3	1843.8	1843.0
30°	1980.7	1966.7	1945.4	1877.1	1765.8	1673.9	1676.6	1840.7	1939.9	1935.7
32.5°	2085.8	2075.3	2071.0	2018.3	1889.9	1767.7	1737.1	1912.0	2058.6	2054.7
35°	2166.4	2152.9	2157.9	2131.1	2025.3	1872.8	1811.2	1997.0	2202.9	2202.5
37.5°	2246.3	2234.3	2238.6	2220.7	2150.5	2006.3	1901.5	2100.9	2381.7	2390.2
40°	2319.2	2306.4	2323.5	2306.8	2247.9	2148.2	2004.3	2218.4	2588.8	2605.1
42.5°	2363.1	2353.0	2381.3	2381.7	2332.4	2268.1	2117.2	2347.9	2828.5	2864.9
45°	2378.2	2374.7	2417.4	2426.3	2407.3	2337.5	2218.8	2489.1	3086.8	3151.9
47.5°	2361.9	2355.3	2414.3	2447.2	2462.4	2370.1	2303.0	2641.9	3350.5	3445.9
50°	2279.7	2266.9	2354.5	2424.0	2477.9	2391.4	2387.9	2818.4	3650.3	3754.6
52.5°	2131.9	2122.2	2221.9	2342.5	2443.7	2401.9	2483.3	3011.1	3935.0	4069.9
55°	1943.0	1930.2	2040.0	2197.5	2358.8	2398.4	2578.7	3226.8	4270.8	4407.7
57.5°	1643.6	1618.0	1756.9	1943.0	2220.3	2394.1	2678.0	3441.2	4612.1	4776.2
60°	1206.9	1168.9	1339.2	1559.9	1949.6	2352.6	2800.9	3681.7	5021.7	5169.4
62.5°	702.8	680.6	792.0	997.9	1469.5	2108.3	2870.0	3961.3	5424.2	5579.4
65°	545.7	539.5	549.2	565.1	817.9	1578.5	2657.0	4234.0	5936.2	6044.8
67.5°	499.1	494.5	498.8	468.9	415.0	879.2	2102.1	4303.0	6484.6	6550.5
70°	443.7	438.3	452.2	426.6	326.6	399.9	1358.2	4052.5	6920.9	7044.6
72.5°	361.5	355.3	387.8	376.2	275.0	256.7	682.2	3457.2	6875.1	7131.9
75°	277.7	274.2	313.0	322.7	224.2	202.1	327.3	2569.8	6050.2	6308.9
77.5°	215.6	212.9	232.7	268.0	180.7	156.7	201.3	1630.1	4559.4	4604.8
80°	161.7	154.0	172.2	207.5	140.8	114.4	136.5	950.6	2882.0	2612.4
82.5°	101.2	97.3	112.5	138.5	99.3	78.7	88.8	525.1	1155.0	680.3
85°	57.8	56.2	61.3	79.1	53.9	45.4	50.8	231.9	211.0	145.0
87.5°	23.3	22.5	27.9	35.3	19.8	16.7	17.8	55.8	46.5	43.0
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°
1471.8	0°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
1477.6	2.5°	1476.1	1476.1	1470.7	1462.1	1452.4	1446.2	1436.1	1433.4	1423.0	1419.9
1490.8	5°	1493.9	1490.8	1474.2	1450.1	1417.1	1386.9	1353.5	1332.6	1303.1	1292.7
1516.8	7.5°	1516.4	1507.9	1479.2	1426.5	1357.4	1289.5	1219.0	1165.4	1114.2	1096.0
1538.1	10°	1537.0	1525.0	1476.1	1383.8	1264.3	1146.8	1034.4	955.6	895.9	871.5
1561.8	12.5°	1557.5	1535.4	1455.5	1312.8	1132.1	972.7	852.8	791.6	754.7	725.2
1581.2	15°	1576.9	1545.9	1423.7	1217.8	987.0	825.3	736.9	688.0	658.5	639.2
1609.5	17.5°	1599.4	1554.8	1376.0	1097.2	849.0	723.3	651.2	621.7	615.9	613.6
1648.3	20°	1630.8	1563.0	1313.2	962.2	747.4	641.9	604.6	601.9	601.5	600.4
1694.8	22.5°	1664.6	1572.7	1230.2	839.7	660.9	591.1	584.5	579.0	575.5	575.2
1751.1	25°	1704.5	1575.8	1126.3	739.2	587.2	567.0	559.3	551.1	548.8	548.8
1815.1	27.5°	1743.3	1565.3	1005.3	651.9	545.7	544.9	534.8	532.1	531.7	532.9
1888.0	30°	1782.1	1545.5	885.0	571.3	521.6	521.6	518.1	520.1	521.6	525.5
1988.0	32.5°	1834.5	1524.6	784.6	511.6	500.7	496.8	500.3	504.2	505.7	510.8
2119.5	35°	1911.2	1509.8	704.7	479.0	479.0	473.9	475.9	475.1	471.6	469.3
2278.5	37.5°	2012.9	1509.1	638.8	463.8	460.7	460.0	460.4	455.3	441.7	425.5
2470.9	40°	2135.0	1530.0	588.0	453.4	451.1	455.7	453.4	439.8	402.6	374.3
2707.5	42.5°	2299.1	1589.7	555.4	440.6	447.6	453.4	444.1	397.1	371.9	352.9
2977.0	45°	2492.2	1686.7	538.7	427.0	441.0	447.9	403.0	382.4	362.2	339.4
3271.0	47.5°	2711.0	1808.9	534.8	414.2	426.2	430.5	385.5	376.2	353.3	328.5
3566.5	50°	2949.1	1953.5	545.3	399.1	404.9	390.2	379.7	371.2	347.5	323.1
3869.4	52.5°	3195.4	2112.9	566.2	378.5	383.6	367.3	377.4	370.0	344.0	311.0
4182.4	55°	3437.4	2273.5	586.4	354.5	361.8	346.7	370.8	365.3	328.1	290.9
4516.3	57.5°	3683.3	2433.3	606.2	333.1	340.9	326.9	360.3	352.9	310.3	272.3
4880.9	60°	3938.8	2588.4	615.5	312.6	318.0	308.7	344.4	331.6	290.1	253.3
5239.2	62.5°	4178.1	2717.6	600.4	292.0	295.5	291.7	323.5	306.4	269.9	231.9
5612.7	65°	4418.2	2794.3	553.8	271.9	272.6	270.7	294.0	279.2	246.3	213.3
5939.7	67.5°	4635.8	2837.4	479.8	250.2	248.2	247.4	266.4	249.8	223.4	194.7
6188.3	70°	4681.9	2728.0	366.5	224.6	224.6	222.6	236.2	219.1	198.2	174.9
6010.3	72.5°	4276.3	2294.8	260.2	195.5	198.6	194.7	205.9	191.6	172.6	157.1
5179.9	75°	3448.2	1682.8	189.3	165.6	171.0	164.4	174.9	164.8	148.5	148.2
3569.6	77.5°	2369.3	1040.6	137.3	136.5	140.4	131.9	143.9	138.5	123.7	117.1
1553.7	80°	1011.1	415.0	100.1	105.5	105.5	97.7	111.7	113.2	100.4	97.3
299.8	82.5°	201.3	117.9	70.2	72.5	68.3	65.9	79.1	87.7	121.0	134.6
90.4	85°	60.5	43.4	42.3	39.6	34.9	35.3	46.5	88.0	108.6	62.1
29.9	87.5°	16.7	10.9	11.2	8.9	7.4	9.7	15.9	66.7	36.5	15.5
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>
1471.8
1424.9
1300.4
1098.3
876.9
734.9
642.6
615.1
604.2
579.4
551.1
536.0
528.2
515.0
474.7
425.8
373.5
352.2
337.8
326.6
320.4
308.7
288.9
271.5
252.1
231.5
211.0
192.4
174.1
152.4
133.4
109.8
97.3
135.0
53.5
13.2
0.0

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