

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: P945613

Luminaire Tested: **GALN-SB1C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945613
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7446 lumens
Efficiency: N/A
Efficacy: 136.9 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

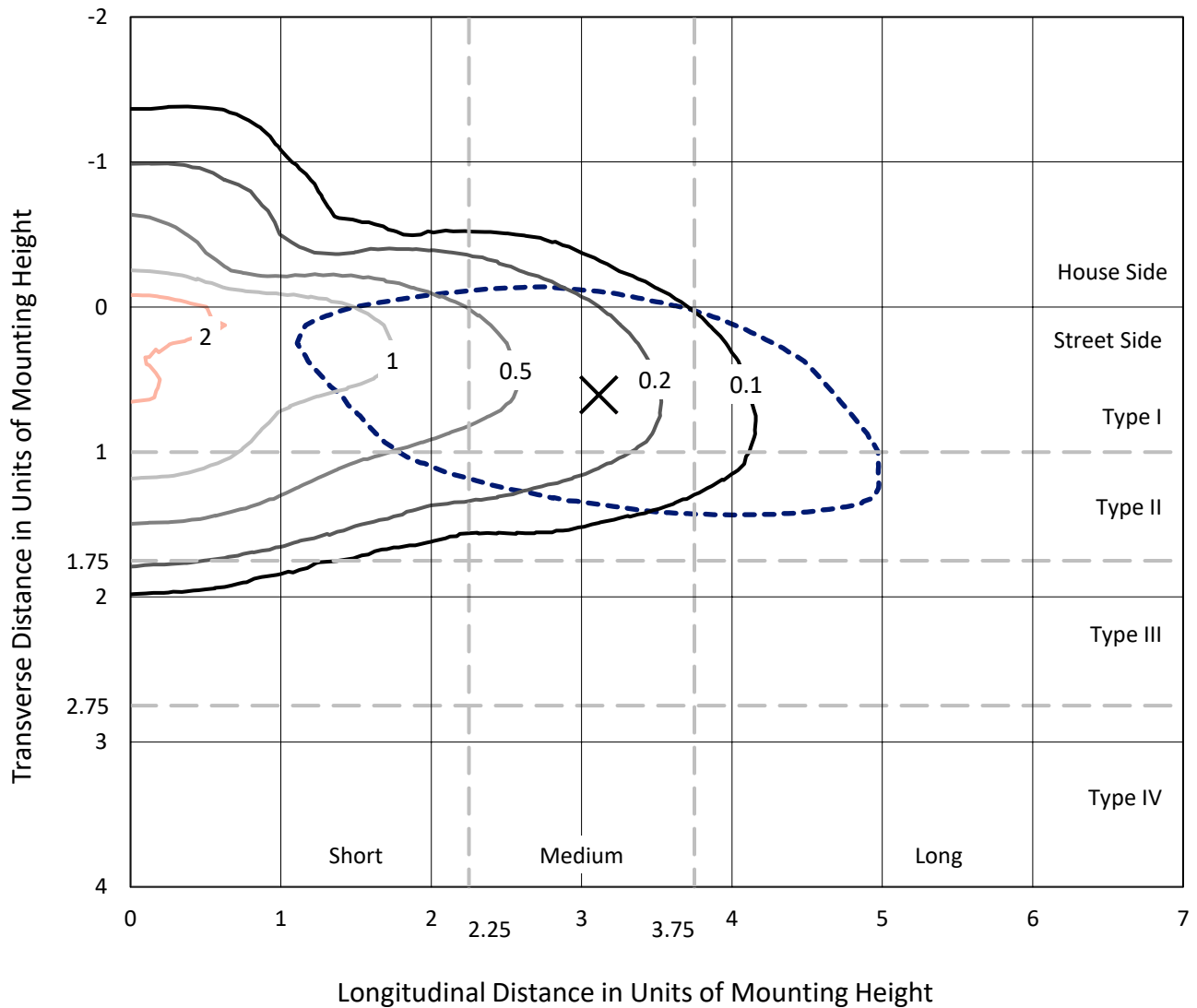
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

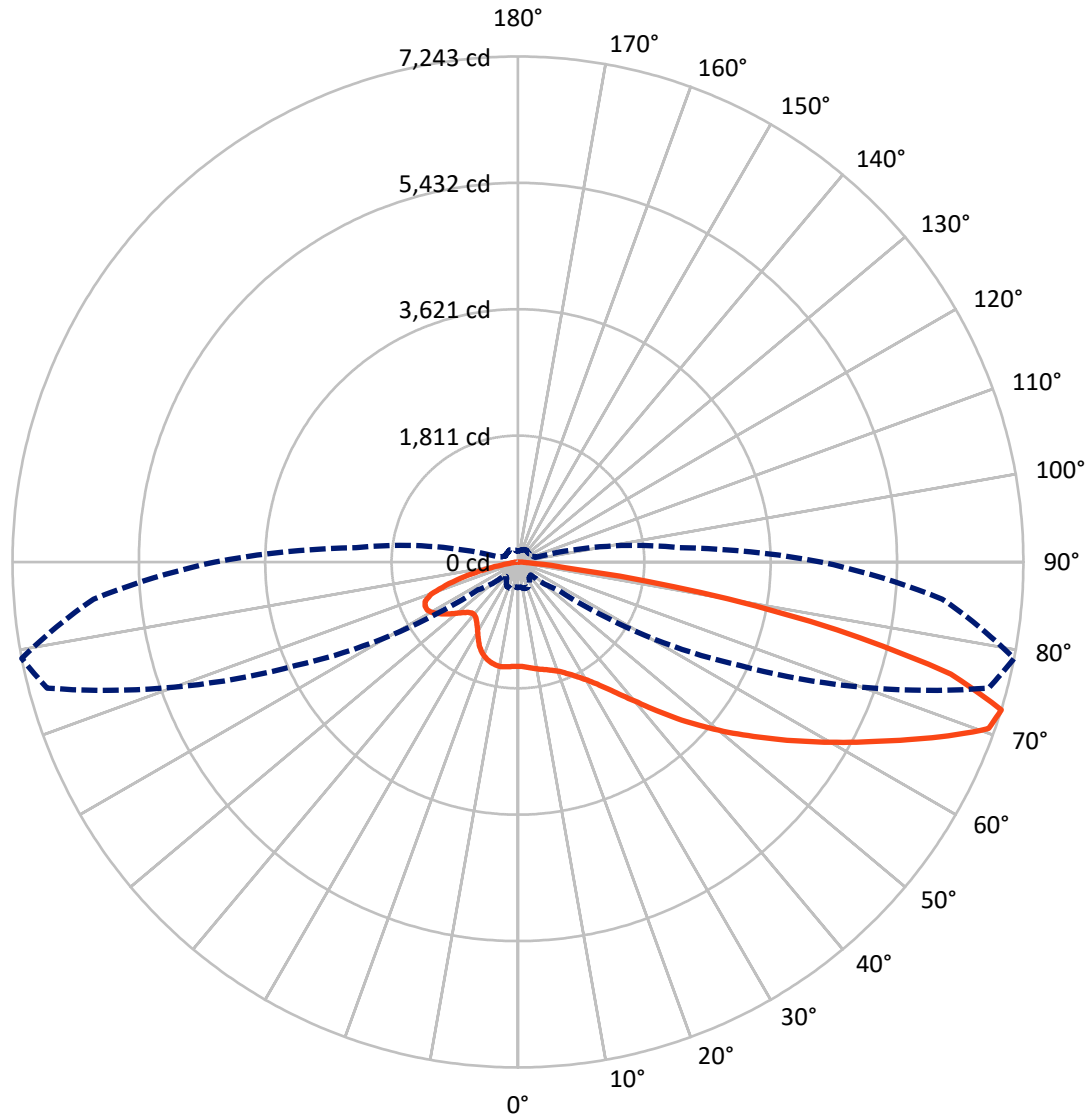
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB1C-735-U-SL2

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	1638.5	0.0	1638.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5807.5	0.0	5807.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	7446.0	0.0	7446.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	1.8
10°-20°	354.7	4.8
20°-30°	572.4	7.7
30°-40°	859.1	11.5
40°-50°	1218.6	16.4
50°-60°	1539.0	20.7
60°-70°	1563.0	21.0
70°-80°	1065.3	14.3
80°-90°	138.2	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°	7446.0	100.0
0°-180°	7446.0	100.0



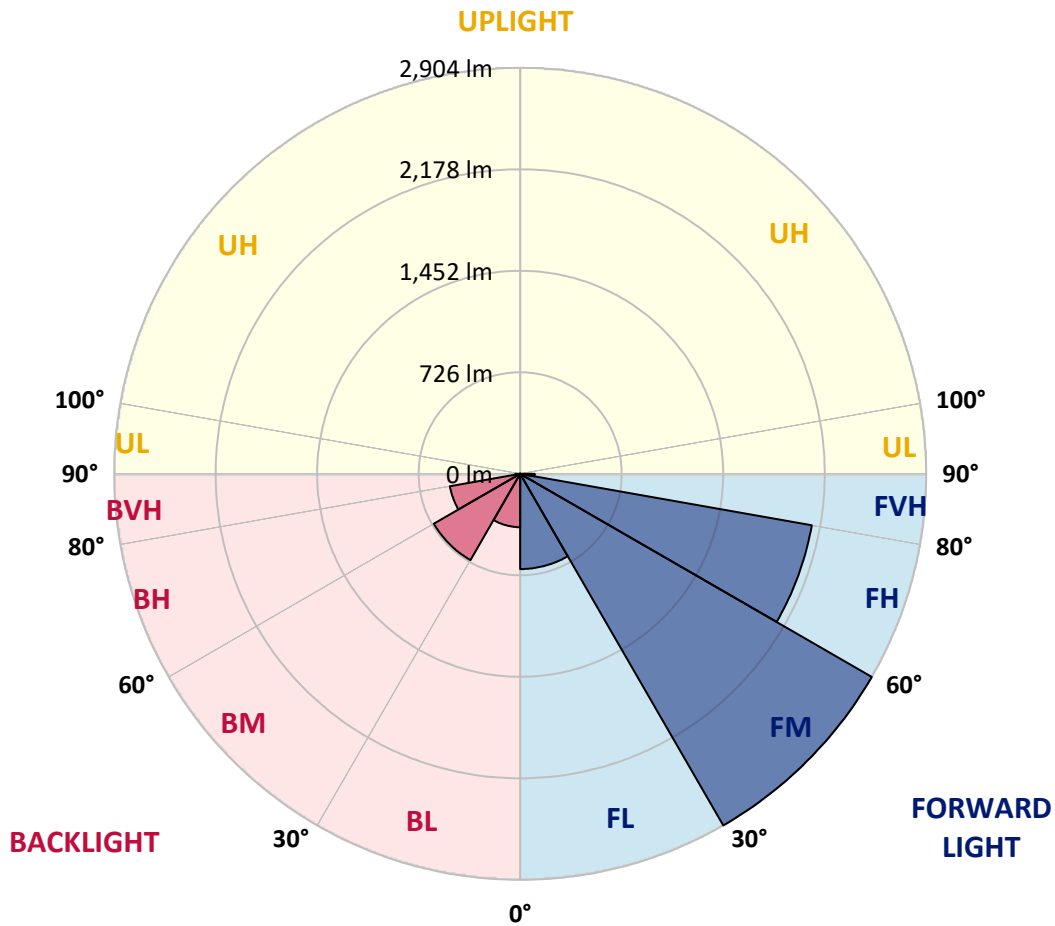
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.1	9.1			
FM (30°-60°)	2904.1	39.0			
FH (60°-80°)	2118.1	28.4			G2/5000
FVH (80°-90°)	104.1	1.4			G2/225
BL (0°-30°)	381.7	5.1	B1/500		
BM (30°-60°)	712.6	9.6	B1/1000		
BH (60°-80°)	510.2	6.9	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7
2.5°	1495.5	1488.4	1492.7	1491.2	1493.1	1495.5	1496.3	1497.5	1501.4	1501.0
5°	1492.4	1485.3	1491.2	1489.2	1494.3	1499.8	1504.6	1508.9	1515.2	1518.0
7.5°	1485.7	1480.9	1486.8	1492.7	1502.2	1510.5	1517.2	1527.0	1536.1	1537.6
10°	1446.7	1443.1	1456.9	1472.3	1498.3	1520.7	1535.3	1546.7	1556.6	1558.1
12.5°	1406.1	1401.8	1417.1	1438.0	1480.1	1520.7	1551.4	1566.4	1575.1	1580.2
15°	1399.4	1395.9	1404.5	1422.6	1457.7	1510.1	1562.5	1590.0	1597.5	1603.4
17.5°	1431.7	1425.0	1428.5	1434.8	1455.3	1500.2	1571.1	1616.8	1628.2	1634.5
20°	1506.5	1497.1	1491.6	1479.0	1475.4	1501.8	1570.3	1649.1	1664.1	1672.0
22.5°	1606.2	1599.9	1588.1	1556.2	1521.5	1521.1	1585.3	1690.5	1718.4	1725.9
25°	1726.7	1717.2	1702.3	1659.0	1592.4	1559.3	1610.5	1743.2	1790.1	1792.1
27.5°	1865.3	1851.2	1830.7	1773.6	1683.8	1619.2	1649.1	1803.9	1872.4	1871.6
30°	2011.5	1997.3	1975.6	1906.3	1793.3	1699.9	1702.7	1869.3	1970.1	1965.8
32.5°	2118.2	2107.6	2103.2	2049.7	1919.3	1795.2	1764.1	1941.7	2090.6	2086.7
35°	2200.1	2186.3	2191.5	2164.3	2056.8	1902.0	1839.3	2028.0	2237.1	2236.8
37.5°	2281.3	2269.1	2273.4	2255.3	2184.0	2037.5	1931.1	2133.6	2418.7	2427.4
40°	2355.3	2342.3	2359.6	2342.7	2282.8	2181.6	2035.5	2252.9	2629.0	2645.6
42.5°	2399.8	2389.6	2418.3	2418.7	2368.7	2303.3	2150.1	2384.5	2872.4	2909.5
45°	2415.2	2411.6	2455.0	2464.0	2444.7	2373.8	2253.3	2527.8	3134.8	3200.9
47.5°	2398.6	2391.9	2451.8	2485.3	2500.6	2406.9	2338.8	2683.0	3402.6	3499.5
50°	2315.1	2302.1	2391.1	2461.6	2516.4	2428.6	2425.0	2862.2	3707.0	3813.0
52.5°	2165.1	2155.2	2256.4	2378.9	2481.7	2439.2	2521.9	3058.0	3996.1	4133.2
55°	1973.3	1960.3	2071.7	2231.6	2395.5	2435.7	2618.8	3276.9	4337.2	4476.3
57.5°	1669.2	1643.2	1784.2	1973.3	2254.9	2431.3	2719.6	3494.8	4683.8	4850.4
60°	1225.7	1187.1	1360.0	1584.1	1980.0	2389.2	2844.5	3739.0	5099.8	5249.8
62.5°	713.7	691.2	804.3	1013.4	1492.4	2141.0	2914.6	4022.9	5508.6	5666.1
65°	554.2	547.9	557.7	573.9	830.7	1603.0	2698.4	4299.8	6028.5	6138.8
67.5°	506.9	502.2	506.5	476.2	421.4	892.9	2134.7	4369.9	6585.4	6652.4
70°	450.6	445.1	459.2	433.3	331.6	406.1	1379.3	4115.5	7028.5	7154.1
72.5°	367.1	360.8	393.9	382.0	279.2	260.7	692.8	3510.9	6982.0	7242.8
75°	282.0	278.5	317.8	327.7	227.7	205.2	332.4	2609.7	6144.3	6407.0
77.5°	219.0	216.2	236.3	272.2	183.5	159.1	204.4	1655.4	4630.3	4676.3
80°	164.2	156.4	174.9	210.7	143.0	116.2	138.6	965.4	2926.8	2653.1
82.5°	102.8	98.9	114.2	140.6	100.8	80.0	90.2	533.3	1172.9	690.8
85°	58.7	57.1	62.2	80.3	54.7	46.1	51.6	235.5	214.3	147.3
87.5°	23.6	22.8	28.4	35.8	20.1	16.9	18.1	56.7	47.3	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945613
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1494.7	0°	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7	1494.7
1500.6	2.5°	1499.0	1499.0	1493.5	1484.9	1475.0	1468.7	1458.5	1455.7	1445.1	1441.9
1514.0	5°	1517.2	1514.0	1497.1	1472.7	1439.2	1408.5	1374.6	1353.3	1323.4	1312.7
1540.4	7.5°	1540.0	1531.3	1502.2	1448.6	1378.5	1309.6	1237.9	1183.6	1131.6	1113.1
1562.1	10°	1560.9	1548.7	1499.0	1405.3	1284.0	1164.7	1050.4	970.5	909.8	885.0
1586.1	12.5°	1581.8	1559.3	1478.2	1333.2	1149.7	987.8	866.1	803.9	766.5	736.5
1605.8	15°	1601.5	1569.9	1445.9	1236.7	1002.4	838.1	748.3	698.7	668.8	649.1
1634.5	17.5°	1624.3	1579.0	1397.4	1114.2	862.2	734.6	661.3	631.4	625.5	623.1
1673.9	20°	1656.2	1587.3	1333.6	977.2	759.0	651.8	614.0	611.3	610.9	609.7
1721.2	22.5°	1690.5	1597.1	1249.3	852.7	671.1	600.2	593.6	588.0	584.5	584.1
1778.3	25°	1731.0	1600.3	1143.8	750.7	596.3	575.8	568.0	559.7	557.3	557.3
1843.3	27.5°	1770.4	1589.6	1020.9	662.1	554.2	553.4	543.1	540.4	540.0	541.2
1917.3	30°	1809.8	1569.5	898.8	580.2	529.7	529.7	526.2	528.2	529.7	533.7
2018.9	32.5°	1863.0	1548.3	796.8	519.5	508.5	504.5	508.1	512.0	513.6	518.7
2152.5	35°	1941.0	1533.3	715.7	486.4	486.4	481.3	483.3	482.5	478.9	476.6
2314.0	37.5°	2044.2	1532.5	648.7	471.1	467.9	467.1	467.5	462.4	448.6	432.1
2509.3	40°	2168.2	1553.8	597.1	460.4	458.1	462.8	460.4	446.6	408.8	380.1
2749.6	42.5°	2334.8	1614.4	564.0	447.4	454.5	460.4	451.0	403.3	377.7	358.4
3023.3	45°	2531.0	1712.9	547.1	433.6	447.8	454.9	409.2	388.3	367.9	344.6
3321.8	47.5°	2753.1	1837.0	543.1	420.6	432.9	437.2	391.5	382.0	358.8	333.6
3622.0	50°	2994.9	1983.9	553.8	405.3	411.2	396.2	385.6	376.9	352.9	328.1
3929.6	52.5°	3245.0	2145.8	575.0	384.4	389.5	373.0	383.2	375.7	349.4	315.9
4247.4	55°	3490.8	2308.8	595.5	360.0	367.5	352.1	376.5	371.0	333.2	295.4
4586.5	57.5°	3740.5	2471.1	615.6	338.3	346.2	332.0	365.9	358.4	315.1	276.5
4956.8	60°	4000.1	2628.6	625.1	317.5	323.0	313.5	349.8	336.8	294.6	257.2
5320.7	62.5°	4243.1	2759.8	609.7	296.6	300.1	296.2	328.5	311.2	274.1	235.5
5700.0	65°	4486.9	2837.8	562.4	276.1	276.9	274.9	298.5	283.6	250.1	216.6
6032.0	67.5°	4707.9	2881.5	487.2	254.0	252.1	251.3	270.6	253.6	226.9	197.7
6284.5	70°	4754.7	2770.4	372.2	228.0	228.0	226.1	239.9	222.5	201.3	177.6
6103.7	72.5°	4342.7	2330.5	264.3	198.5	201.7	197.7	209.1	194.6	175.3	159.5
5260.4	75°	3501.8	1709.0	192.2	168.2	173.7	167.0	177.6	167.4	150.8	150.5
3625.1	77.5°	2406.1	1056.7	139.4	138.6	142.6	133.9	146.1	140.6	125.6	118.9
1577.8	80°	1026.8	421.4	101.6	107.1	107.1	99.3	113.4	115.0	102.0	98.9
304.5	82.5°	204.4	119.7	71.3	73.7	69.3	67.0	80.3	89.0	122.9	136.7
91.8	85°	61.4	44.1	42.9	40.2	35.4	35.8	47.3	89.4	110.3	63.0
30.3	87.5°	16.9	11.0	11.4	9.1	7.5	9.8	16.1	67.7	37.0	15.8
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

<u>180°</u>
1494.7
1447.1
1320.6
1115.4
890.5
746.4
652.6
624.7
613.6
588.4
559.7
544.3
536.4
523.1
482.1
432.5
379.3
357.6
343.1
331.6
325.3
313.5
293.4
275.7
256.0
235.1
214.3
195.4
176.8
154.8
135.5
111.5
98.9
137.1
54.4
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0.0

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