

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: P945634

Luminaire Tested: **GALN-SB1C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945634
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-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7878 lumens
Efficiency: N/A
Efficacy: 144.8 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

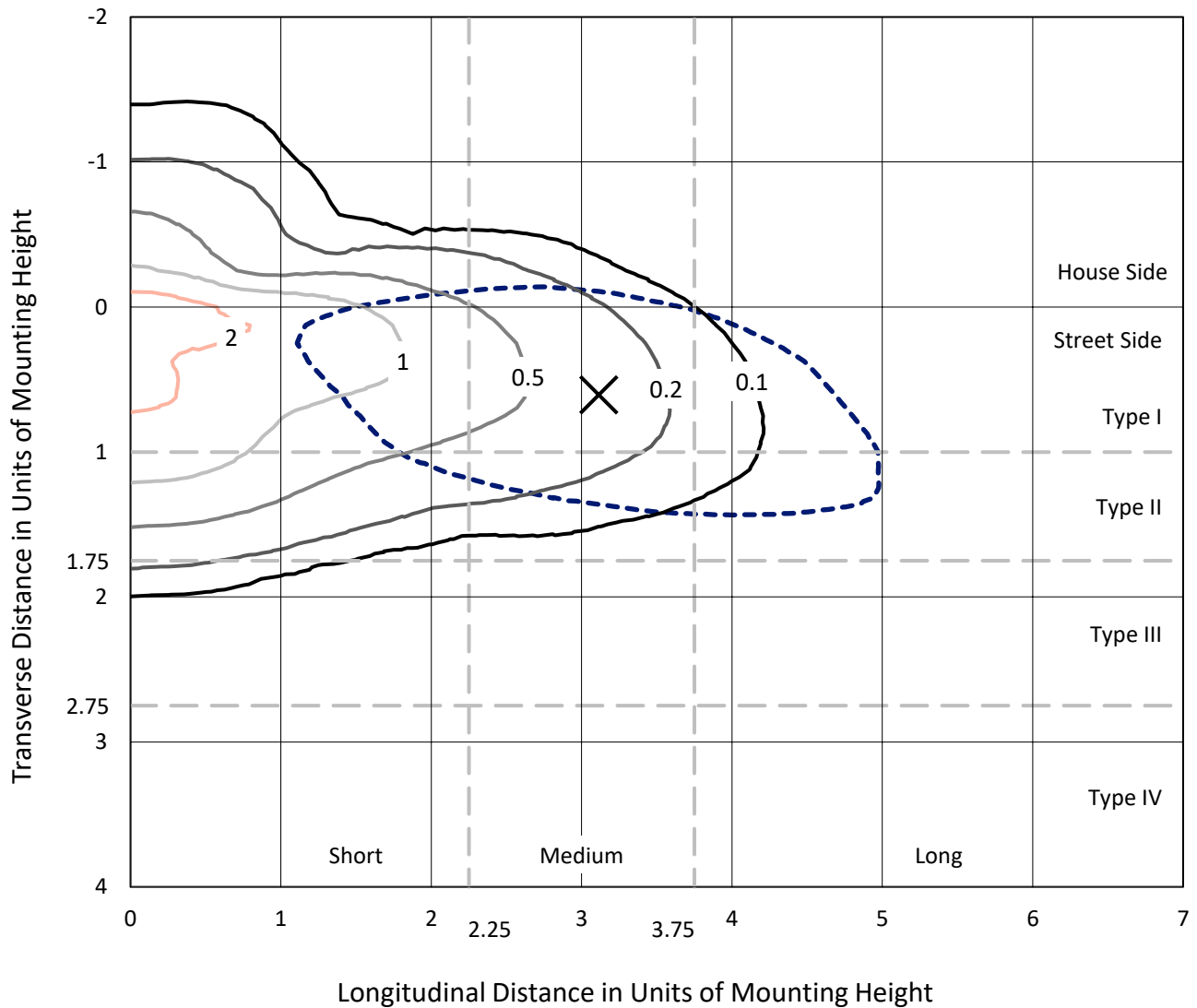
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

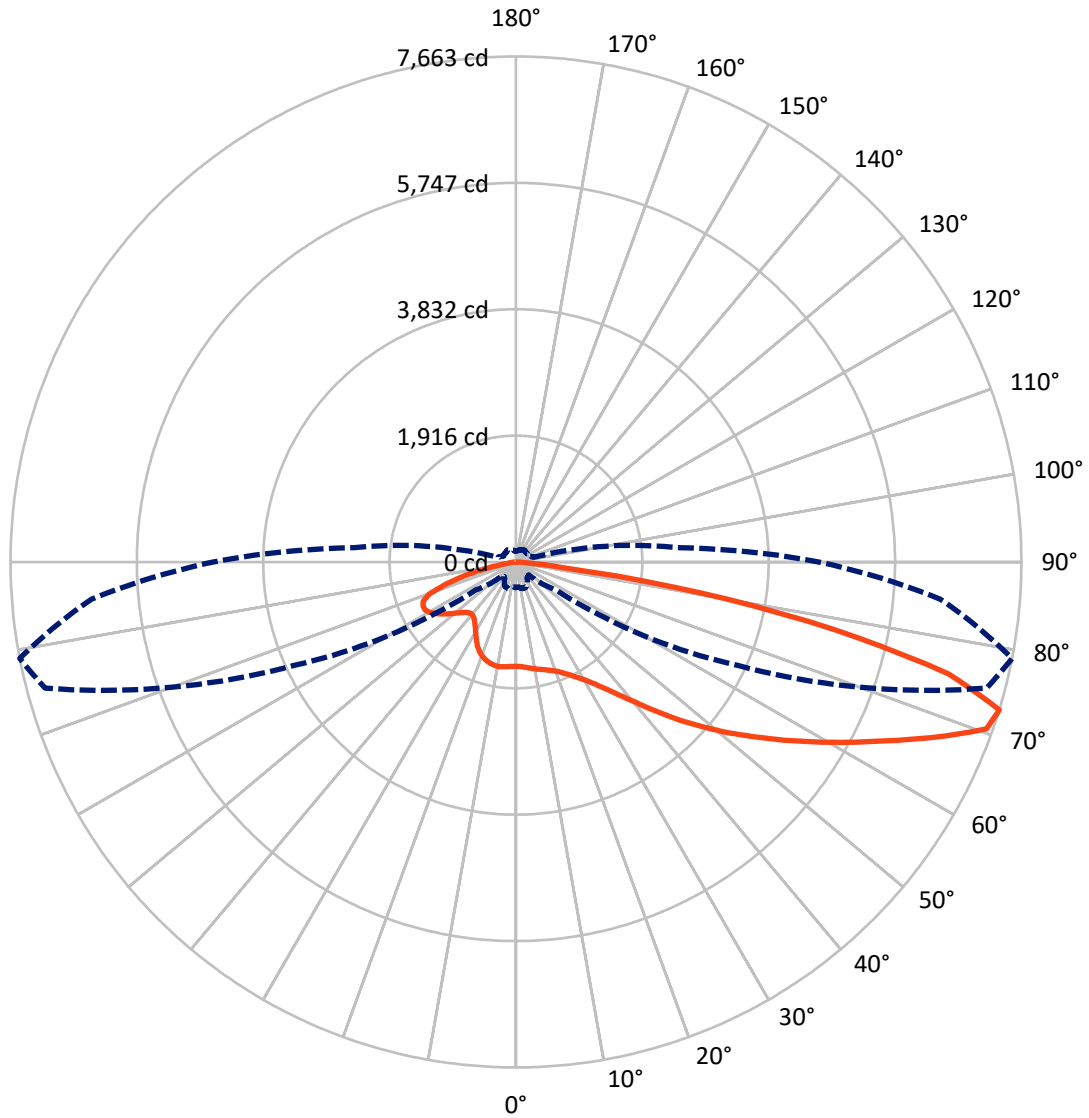
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1733.6	0.0	1733.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6144.4	0.0	6144.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	7878.0	0.0	7878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	1.8
10°-20°	375.3	4.8
20°-30°	605.6	7.7
30°-40°	908.9	11.5
40°-50°	1289.3	16.4
50°-60°	1628.3	20.7
60°-70°	1653.7	21.0
70°-80°	1127.1	14.3
80°-90°	146.2	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°	7878.0	100.0
0°-180°	7878.0	100.0

Coefficient of Utilization



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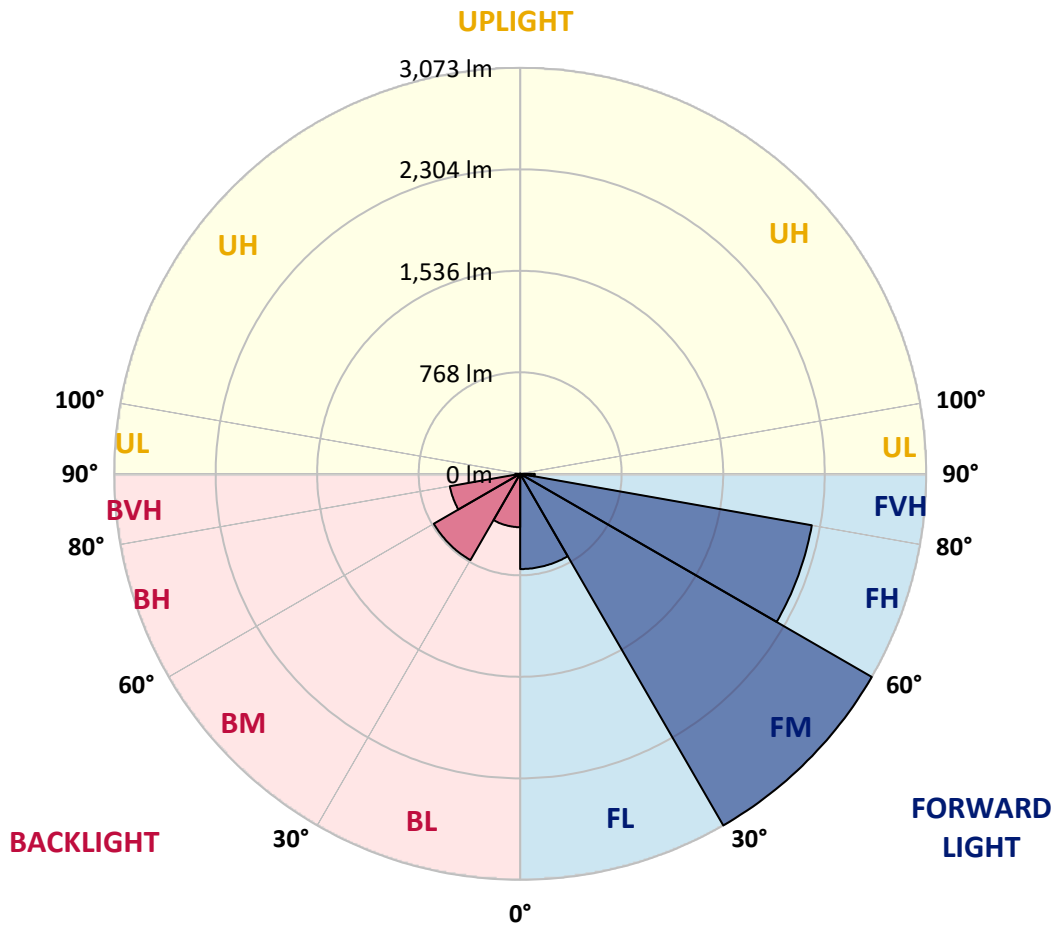
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.6	9.1			
FM (30°-60°)	3072.6	39.0			
FH (60°-80°)	2241.0	28.4			G2/5000
FVH (80°-90°)	110.2	1.4			G2/225
BL (0°-30°)	403.8	5.1	B1/500		
BM (30°-60°)	753.9	9.6	B1/1000		
BH (60°-80°)	539.8	6.9	B2/1000		G2/1000
BVH (80°-90°)	36.1	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°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1582.3	1574.8	1579.4	1577.7	1579.8	1582.3	1583.1	1584.4	1588.5	1588.1
5°	1578.9	1571.4	1577.7	1575.6	1581.0	1586.9	1591.9	1596.4	1603.1	1606.0
7.5°	1571.8	1566.8	1573.1	1579.4	1589.4	1598.1	1605.2	1615.6	1625.2	1626.9
10°	1530.6	1526.8	1541.4	1557.7	1585.2	1608.9	1624.4	1636.4	1646.9	1648.5
12.5°	1487.7	1483.1	1499.3	1521.4	1566.0	1608.9	1641.4	1657.3	1666.4	1671.9
15°	1480.6	1476.8	1486.0	1505.2	1542.3	1597.7	1653.1	1682.3	1690.2	1696.4
17.5°	1514.8	1507.7	1511.4	1518.1	1539.8	1587.3	1662.3	1710.6	1722.7	1729.4
20°	1593.9	1583.9	1578.1	1564.8	1561.0	1588.9	1661.4	1744.8	1760.6	1769.0
22.5°	1699.4	1692.7	1680.2	1646.4	1609.8	1609.4	1677.3	1788.5	1818.1	1826.0
25°	1826.9	1816.9	1801.0	1755.2	1684.8	1649.8	1703.9	1844.4	1894.0	1896.1
27.5°	1973.6	1958.6	1936.9	1876.5	1781.5	1713.1	1744.8	1908.6	1981.1	1980.2
30°	2128.2	2113.2	2090.2	2016.9	1897.3	1798.5	1801.5	1977.7	2084.4	2079.8
32.5°	2241.1	2229.8	2225.3	2168.6	2030.7	1899.4	1866.5	2054.4	2211.9	2207.8
35°	2327.8	2313.2	2318.6	2289.8	2176.1	2012.3	1946.1	2145.7	2366.9	2366.5
37.5°	2413.6	2400.7	2405.3	2386.1	2310.7	2155.7	2043.2	2257.3	2559.0	2568.2
40°	2492.0	2478.2	2496.5	2478.6	2415.3	2308.2	2153.6	2383.6	2781.6	2799.1
42.5°	2539.0	2528.2	2558.6	2559.0	2506.1	2436.9	2274.8	2522.8	3039.1	3078.3
45°	2555.3	2551.5	2597.4	2607.0	2586.6	2511.5	2384.0	2674.5	3316.6	3386.6
47.5°	2537.8	2530.7	2594.1	2629.5	2645.7	2546.5	2474.5	2838.7	3600.0	3702.5
50°	2449.5	2435.7	2529.9	2604.5	2662.4	2569.5	2565.7	3028.3	3922.1	4034.2
52.5°	2290.7	2280.3	2387.4	2517.0	2625.7	2580.7	2668.2	3235.4	4228.0	4373.0
55°	2087.7	2074.0	2191.9	2361.1	2534.5	2577.0	2770.7	3467.1	4588.9	4736.0
57.5°	1766.0	1738.5	1887.7	2087.7	2385.7	2572.4	2877.4	3697.5	4955.6	5131.8
60°	1296.8	1256.0	1438.9	1676.0	2094.8	2527.8	3009.5	3955.9	5395.6	5554.4
62.5°	755.1	731.3	850.9	1072.2	1578.9	2265.3	3083.7	4256.3	5828.2	5994.9
65°	586.3	579.7	590.1	607.2	878.9	1696.0	2854.9	4549.3	6378.2	6494.9
67.5°	536.3	531.3	535.9	503.8	445.9	944.7	2258.6	4623.5	6967.5	7038.3
70°	476.7	470.9	485.9	458.4	350.9	429.6	1459.3	4354.3	7436.3	7569.2
72.5°	388.4	381.7	416.7	404.2	295.5	275.9	733.0	3714.6	7387.1	7663.0
75°	298.4	294.6	336.3	346.7	240.9	217.1	351.7	2761.2	6500.8	6778.7
77.5°	231.7	228.8	250.0	288.0	194.2	168.4	216.3	1751.5	4898.9	4947.7
80°	173.8	165.4	185.0	222.9	151.3	122.9	146.7	1021.4	3096.6	2807.0
82.5°	108.8	104.6	120.8	148.8	106.7	84.6	95.4	564.2	1241.0	730.9
85°	62.1	60.4	65.8	85.0	57.9	48.8	54.6	249.2	226.7	155.9
87.5°	25.0	24.2	30.0	37.9	21.3	17.9	19.2	60.0	50.0	46.3
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°
1581.4	0°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
1587.7	2.5°	1586.0	1586.0	1580.2	1571.0	1560.6	1553.9	1543.1	1540.2	1528.9	1525.6
1601.9	5°	1605.2	1601.9	1583.9	1558.1	1522.7	1490.2	1454.3	1431.8	1400.2	1388.9
1629.8	7.5°	1629.4	1620.2	1589.4	1532.7	1458.5	1385.6	1309.7	1252.2	1197.2	1177.6
1652.7	10°	1651.4	1638.5	1586.0	1486.8	1358.5	1232.2	1111.4	1026.8	962.6	936.4
1678.1	12.5°	1673.5	1649.8	1563.9	1410.6	1216.4	1045.1	916.4	850.5	810.9	779.3
1698.9	15°	1694.4	1661.0	1529.8	1308.5	1060.5	886.8	791.8	739.3	707.6	686.7
1729.4	17.5°	1718.5	1670.6	1478.5	1178.9	912.2	777.2	699.7	668.0	661.7	659.2
1771.0	20°	1752.3	1679.4	1411.0	1033.9	803.0	689.7	649.7	646.7	646.3	645.1
1821.0	22.5°	1788.5	1689.8	1321.8	902.2	710.1	635.1	628.0	622.2	618.4	618.0
1881.5	25°	1831.5	1693.1	1210.1	794.3	630.9	609.2	600.9	592.2	589.7	589.7
1950.2	27.5°	1873.1	1681.9	1080.1	700.5	586.3	585.5	574.7	571.7	571.3	572.6
2028.6	30°	1914.8	1660.6	950.9	613.8	560.5	560.5	556.7	558.8	560.5	564.6
2136.1	32.5°	1971.1	1638.1	843.0	549.6	538.0	533.8	537.6	541.7	543.4	548.8
2277.3	35°	2053.6	1622.3	757.2	514.6	514.6	509.2	511.3	510.5	506.7	504.2
2448.2	37.5°	2162.8	1621.4	686.3	498.4	495.1	494.2	494.6	489.2	474.6	457.1
2654.9	40°	2294.0	1643.9	631.7	487.1	484.6	489.6	487.1	472.6	432.6	402.1
2909.1	42.5°	2470.3	1708.1	596.7	473.4	480.9	487.1	477.1	426.7	399.6	379.2
3198.7	45°	2677.8	1812.3	578.8	458.8	473.8	481.3	433.0	410.9	389.2	364.6
3514.6	47.5°	2912.8	1943.6	574.7	445.1	458.0	462.6	414.2	404.2	379.6	353.0
3832.1	50°	3168.7	2099.0	585.9	428.8	435.1	419.2	408.0	398.8	373.4	347.1
4157.6	52.5°	3433.3	2270.3	608.4	406.7	412.1	394.6	405.5	397.5	369.6	334.2
4493.9	55°	3693.3	2442.8	630.1	380.9	388.8	372.5	398.4	392.5	352.5	312.5
4852.6	57.5°	3957.5	2614.5	651.3	358.0	366.3	351.3	387.1	379.2	333.4	292.5
5244.4	60°	4232.2	2781.2	661.3	335.9	341.7	331.7	370.0	356.3	311.7	272.1
5629.4	62.5°	4489.3	2919.9	645.1	313.8	317.5	313.4	347.5	329.2	290.0	249.2
6030.7	65°	4747.2	3002.4	595.1	292.1	293.0	290.9	315.9	300.0	264.6	229.2
6382.0	67.5°	4981.0	3048.7	515.5	268.8	266.7	265.9	286.3	268.4	240.0	209.2
6649.1	70°	5030.6	2931.2	393.8	241.3	241.3	239.2	253.8	235.4	212.9	187.9
6457.8	72.5°	4594.7	2465.7	279.6	210.0	213.4	209.2	221.3	205.9	185.4	168.8
5565.6	75°	3705.0	1808.1	203.4	177.9	183.8	176.7	187.9	177.1	159.6	159.2
3835.4	77.5°	2545.7	1118.0	147.5	146.7	150.9	141.7	154.6	148.8	132.9	125.8
1669.4	80°	1086.4	445.9	107.5	113.3	113.3	105.0	120.0	121.7	107.9	104.6
322.1	82.5°	216.3	126.7	75.4	77.9	73.3	70.8	85.0	94.2	130.0	144.6
97.1	85°	65.0	46.7	45.4	42.5	37.5	37.9	50.0	94.6	116.7	66.7
32.1	87.5°	17.9	11.7	12.1	9.6	7.9	10.4	17.1	71.7	39.2	16.7
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>
1581.4
1531.0
1397.2
1180.1
942.2
789.7
690.5
660.9
649.2
622.6
592.2
575.9
567.6
553.4
510.1
457.6
401.3
378.4
363.0
350.9
344.2
331.7
310.5
291.7
270.9
248.8
226.7
206.7
187.1
163.8
143.3
117.9
104.6
145.0
57.5
14.2
0.0

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