

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: P946056

Luminaire Tested: **GALN-SB1D-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

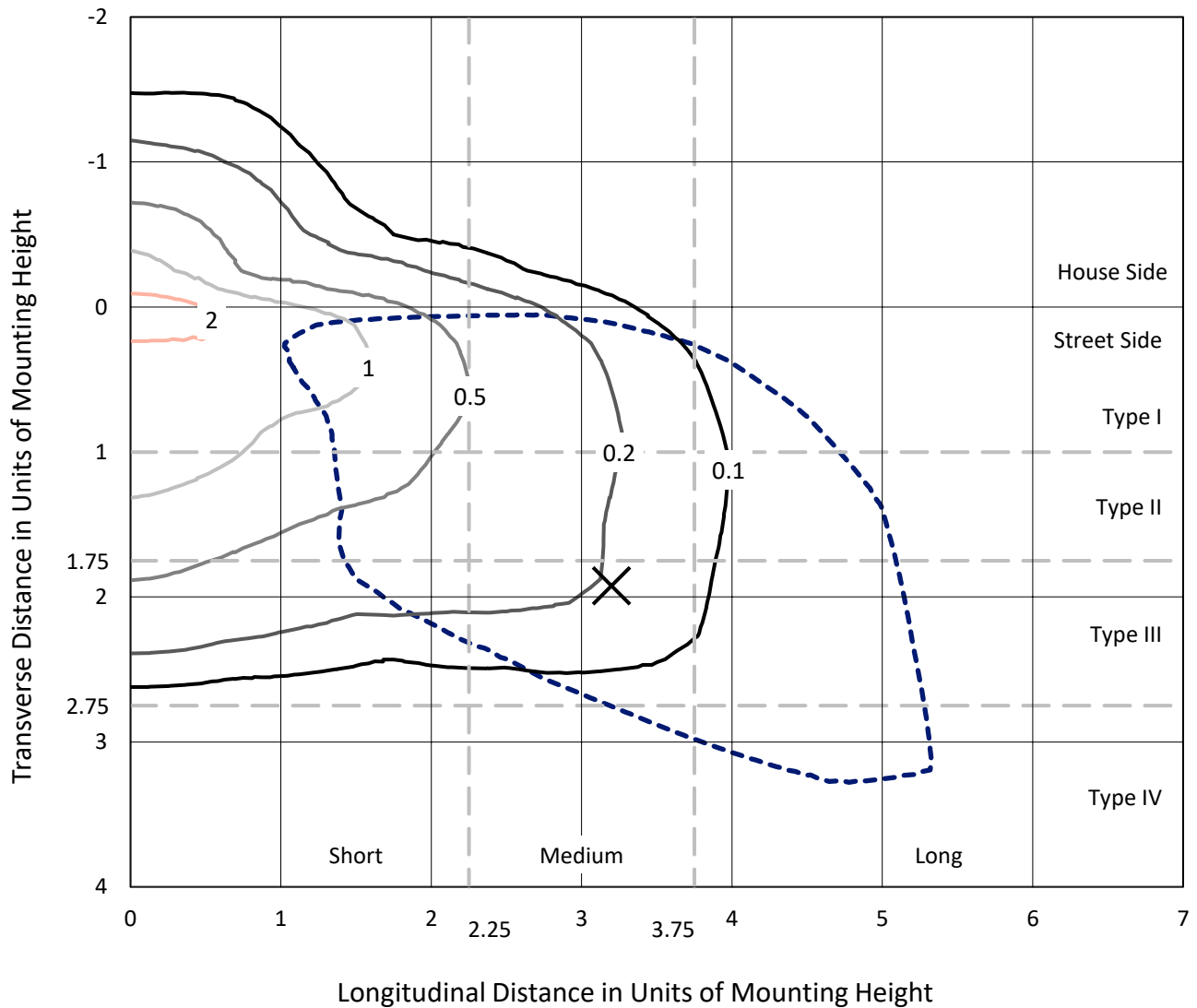
Lumens per Lamp: N/A  
Luminaire Lumens: 8651 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

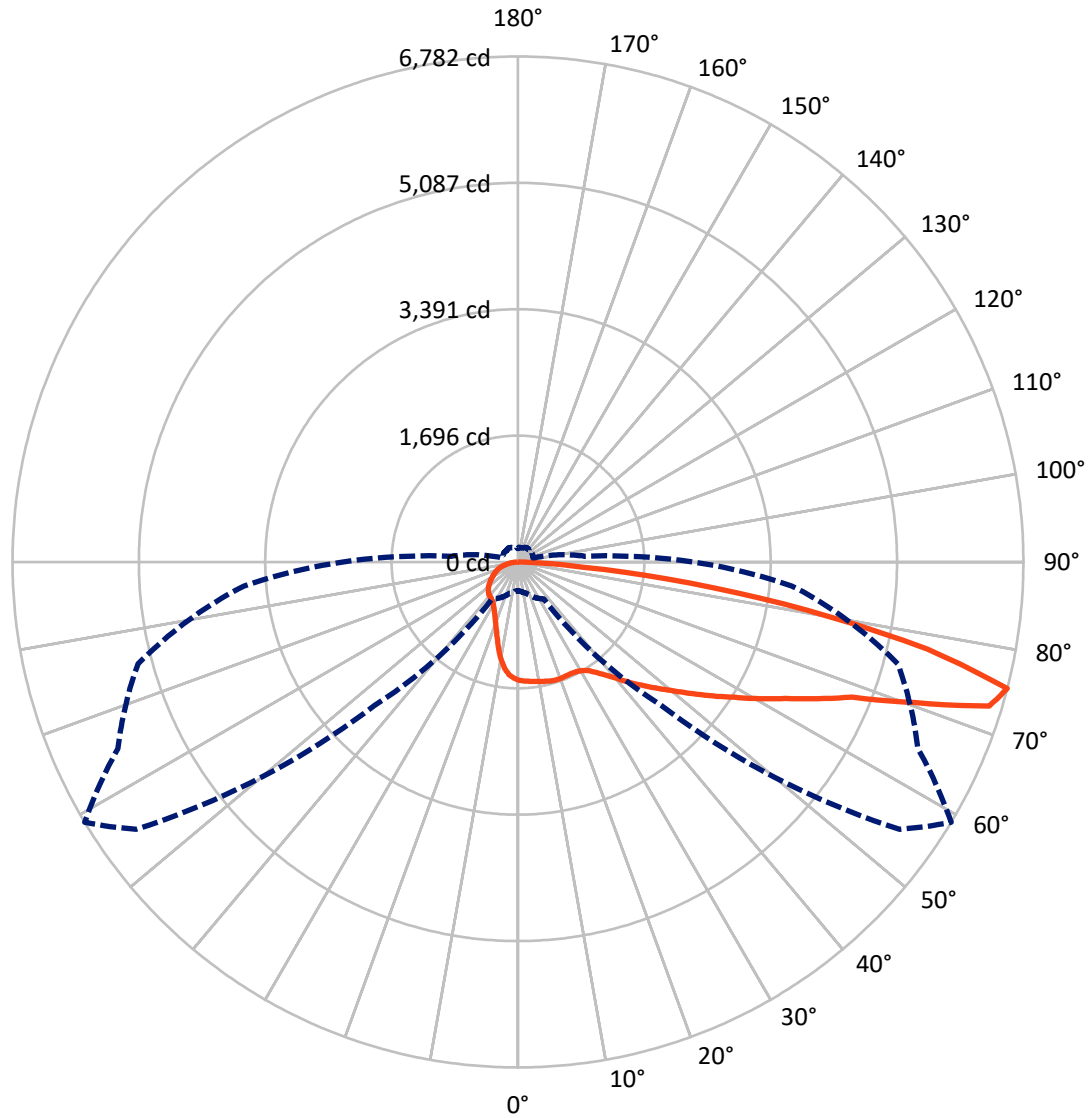
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1622.6	0.0	1622.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	7028.4	0.0	7028.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	8651.0	0.0	8651.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.4	1.6
10°-20°	363.9	4.2
20°-30°	552.8	6.4
30°-40°	821.7	9.5
40°-50°	1222.0	14.1
50°-60°	1658.7	19.2
60°-70°	2025.0	23.4
70°-80°	1589.2	18.4
80°-90°	275.3	3.2
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°	8651.0	100.0
0°-180°	8651.0	100.0

**Coefficient of Utilization**



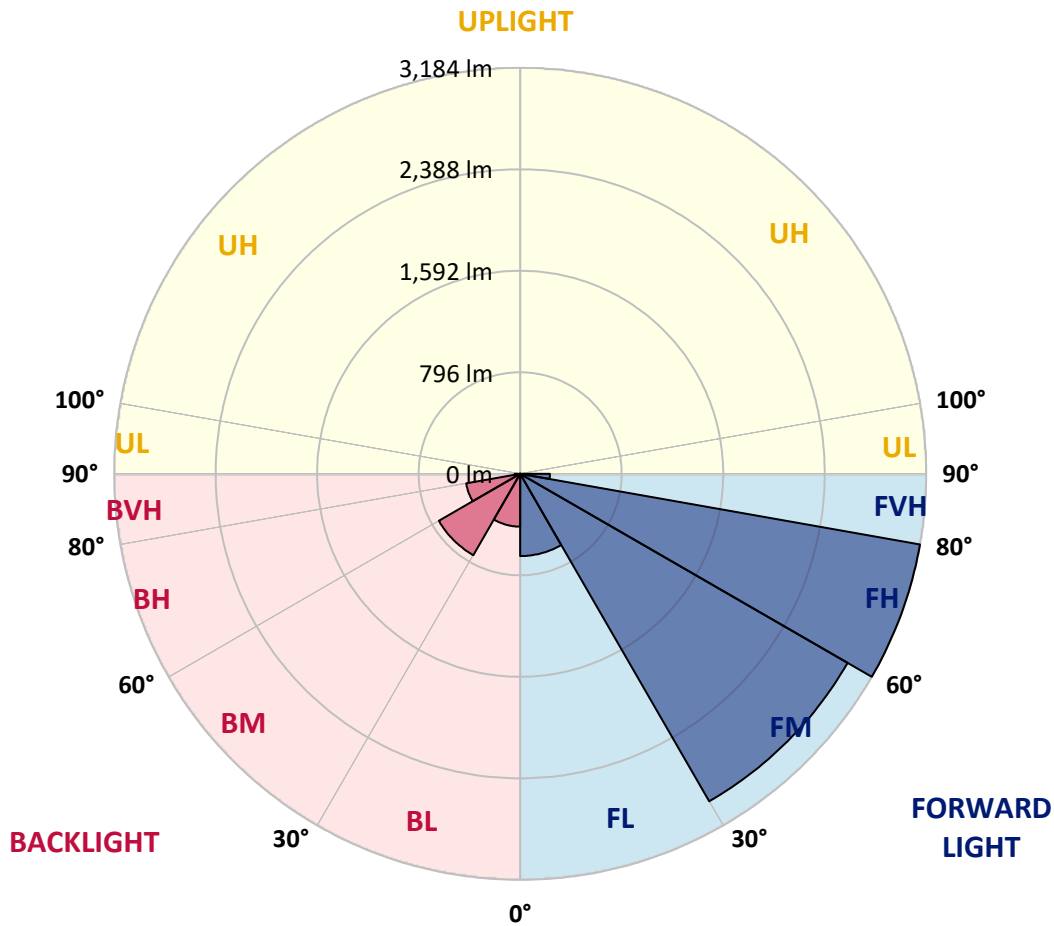
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.0	7.5			
FM (30°-60°)	2965.9	34.3			
FH (60°-80°)	3184.4	36.8			G2/5000
FVH (80°-90°)	233.1	2.7			G3/500
BL (0°-30°)	414.1	4.8	B1/500		
BM (30°-60°)	736.5	8.5	B1/1000		
BH (60°-80°)	429.9	5.0	B1/500		G1/500
BVH (80°-90°)	42.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9
2.5°	1601.4	1595.8	1601.4	1599.0	1598.1	1596.2	1596.7	1600.0	1598.1	1600.4
5°	1590.7	1587.4	1593.0	1591.6	1597.6	1598.6	1604.6	1608.3	1610.7	1611.1
7.5°	1573.0	1569.7	1577.6	1584.1	1597.2	1600.9	1613.5	1619.5	1622.8	1628.4
10°	1508.3	1506.9	1526.4	1551.1	1581.8	1600.9	1620.0	1630.2	1635.3	1650.2
12.5°	1393.8	1395.7	1421.3	1468.7	1530.2	1591.6	1627.4	1642.3	1650.2	1668.8
15°	1284.4	1284.0	1311.9	1362.6	1448.7	1550.6	1631.2	1656.7	1670.2	1697.7
17.5°	1221.2	1219.3	1238.8	1277.5	1357.5	1487.8	1621.8	1664.7	1693.5	1728.0
20°	1209.5	1205.8	1216.0	1235.1	1291.9	1418.9	1597.6	1664.7	1712.1	1756.8
22.5°	1251.9	1245.8	1241.6	1239.3	1264.4	1362.2	1570.2	1659.1	1739.6	1798.2
25°	1337.0	1327.7	1306.3	1285.4	1277.9	1336.6	1546.0	1657.7	1780.5	1854.1
27.5°	1474.8	1463.2	1419.9	1369.6	1324.5	1349.6	1535.3	1666.1	1825.7	1913.2
30°	1645.6	1633.0	1578.6	1501.3	1420.3	1398.0	1548.8	1690.7	1883.4	1991.8
32.5°	1798.7	1784.7	1738.2	1659.5	1550.2	1481.8	1591.6	1737.7	1974.1	2101.2
35°	1934.6	1918.3	1876.4	1803.8	1709.3	1599.5	1668.8	1821.0	2103.0	2279.0
37.5°	2067.7	2048.6	2003.0	1926.2	1860.1	1756.3	1775.4	1928.1	2274.3	2494.9
40°	2216.6	2189.1	2133.8	2057.9	1993.7	1940.2	1915.5	2059.3	2448.4	2736.0
42.5°	2360.9	2334.8	2268.7	2204.0	2123.5	2108.2	2077.9	2212.9	2638.7	3000.8
45°	2516.3	2485.1	2405.1	2323.2	2272.4	2219.9	2235.2	2366.5	2825.3	3270.7
47.5°	2662.0	2627.1	2532.6	2441.4	2413.5	2313.9	2379.5	2535.4	3019.4	3544.3
50°	2740.6	2706.2	2627.5	2545.2	2523.3	2429.7	2535.8	2721.1	3222.7	3817.0
52.5°	2806.2	2769.0	2666.2	2620.5	2614.0	2555.9	2728.5	2933.3	3426.1	4058.1
55°	2876.0	2834.6	2703.4	2662.4	2692.2	2697.3	2957.0	3173.9	3641.1	4293.1
57.5°	2956.6	2904.0	2739.2	2697.8	2768.5	2863.0	3219.5	3423.3	3852.4	4510.9
60°	3032.4	2979.4	2808.1	2754.1	2850.9	3055.2	3520.6	3725.4	4091.6	4705.0
62.5°	3047.3	3003.6	2863.0	2862.5	2962.6	3279.5	3877.1	4030.2	4300.6	4896.7
65°	2789.5	2762.0	2678.7	2858.4	3122.7	3602.5	4274.0	4420.2	4566.3	5064.2
67.5°	2123.1	2126.8	2120.7	2467.4	2993.3	4066.5	4848.8	4837.6	4894.4	5252.3
70°	970.8	992.7	1135.1	1703.3	2398.1	4120.0	5799.1	5654.3	5306.2	5495.7
72.5°	524.5	541.2	599.4	825.1	1441.7	3663.0	6509.3	6612.1	5854.0	5659.5
75°	384.9	394.2	434.7	524.5	605.5	2722.5	6254.7	6782.4	5922.4	5277.4
77.5°	288.1	292.3	325.3	415.6	309.9	1435.2	4997.7	5617.1	5069.8	4335.9
80°	209.0	213.6	238.3	311.8	217.3	524.9	3431.7	3942.7	3472.2	2763.9
82.5°	144.3	146.1	156.8	212.2	151.7	203.8	1947.1	2312.0	1938.3	969.8
85°	87.0	89.4	94.0	123.8	86.1	96.8	840.5	869.3	579.4	231.8
87.5°	35.8	38.2	41.9	52.1	34.0	27.0	138.7	174.1	108.4	67.9
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°
1587.9	0°	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9	1587.9
1592.5	2.5°	1590.2	1586.9	1578.1	1566.0	1554.8	1540.9	1534.8	1529.7	1525.0	1516.2
1605.1	5°	1600.0	1591.1	1567.4	1536.7	1501.8	1463.6	1426.4	1400.8	1378.9	1362.6
1619.5	7.5°	1614.9	1598.1	1554.8	1492.0	1412.0	1330.1	1256.1	1203.5	1163.9	1149.5
1640.0	10°	1630.2	1610.2	1534.8	1424.1	1285.8	1159.7	1061.5	1007.5	975.9	965.7
1664.2	12.5°	1648.4	1619.1	1503.6	1329.6	1144.8	1006.6	921.0	889.3	873.1	867.5
1694.0	15°	1674.9	1626.5	1456.6	1211.4	1010.3	894.9	839.5	817.7	809.3	808.8
1724.7	17.5°	1694.9	1627.9	1383.6	1084.8	907.0	827.4	781.8	773.5	779.0	787.4
1754.9	20°	1717.2	1615.3	1287.7	969.4	834.4	768.3	749.3	754.8	768.3	780.4
1795.0	22.5°	1733.1	1592.5	1171.8	879.6	771.6	734.4	733.4	745.1	752.5	758.6
1842.0	25°	1747.0	1553.9	1049.0	804.2	719.9	713.9	724.1	720.4	715.3	720.4
1889.0	27.5°	1757.3	1492.9	939.1	738.1	683.6	699.9	693.9	685.5	685.0	687.8
1944.4	30°	1754.0	1411.5	848.9	675.3	658.0	673.9	659.4	658.0	656.6	658.0
2027.7	32.5°	1754.0	1318.9	779.5	632.0	641.8	635.7	634.3	631.1	625.5	625.0
2140.7	35°	1763.8	1226.3	719.9	608.7	628.3	613.8	614.8	606.9	595.2	589.6
2290.6	37.5°	1783.8	1151.8	660.8	597.5	604.5	604.1	600.3	586.8	566.4	548.7
2477.7	40°	1832.2	1129.9	620.3	592.4	593.4	598.9	589.2	563.1	516.6	487.7
2667.6	42.5°	1908.1	1166.7	611.5	579.9	585.9	591.5	572.4	511.9	478.9	461.7
2866.7	45°	2004.4	1230.9	630.6	561.7	568.2	578.0	521.2	492.4	477.5	477.9
3064.1	47.5°	2126.3	1298.4	666.0	545.9	542.6	548.2	487.3	469.6	449.1	454.2
3253.5	50°	2267.3	1366.8	699.5	524.5	514.2	496.1	465.4	448.6	422.6	410.5
3436.4	52.5°	2420.0	1432.9	713.0	498.4	483.5	462.6	450.5	430.0	398.4	378.4
3609.0	55°	2564.7	1492.9	698.1	467.2	452.8	436.5	434.7	422.1	388.1	360.2
3762.6	57.5°	2701.5	1543.2	660.8	435.6	421.6	411.9	424.4	418.4	375.6	339.7
3907.8	60°	2817.4	1577.6	606.9	403.5	393.7	388.6	407.7	405.8	357.9	317.9
4038.1	62.5°	2909.5	1591.1	547.3	372.8	370.4	361.1	384.4	384.4	335.5	296.4
4152.6	65°	2981.7	1578.1	486.8	342.5	347.2	333.2	356.0	353.2	311.8	277.4
4284.3	67.5°	3045.4	1535.3	419.8	312.7	323.4	305.8	326.2	319.7	285.7	258.3
4398.3	70°	3073.8	1435.7	343.4	283.0	296.0	278.8	296.4	284.3	256.4	237.8
4273.1	72.5°	2845.8	1193.2	270.4	251.8	262.9	249.0	264.3	250.4	224.8	216.4
3690.0	75°	2354.4	895.4	208.0	217.8	226.2	215.5	225.7	215.5	192.2	198.3
2725.7	77.5°	1709.8	604.5	159.2	182.0	185.7	180.1	188.9	177.3	156.4	155.0
1358.4	80°	850.2	354.2	124.7	143.8	142.4	138.7	148.9	143.3	125.7	133.1
366.7	82.5°	246.2	151.7	90.7	101.0	98.2	99.1	106.6	109.4	163.8	162.4
114.0	85°	77.3	59.6	54.4	56.3	53.5	54.9	62.8	124.7	115.4	67.5
35.4	87.5°	20.0	20.5	13.5	14.4	14.9	17.7	20.0	75.9	36.3	23.7
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>
1587.9
1512.0
1349.1
1124.4
949.8
868.9
810.7
790.7
784.6
761.8
723.7
692.5
663.2
631.1
595.2
554.7
491.4
461.7
480.3
467.2
413.7
377.9
360.2
337.9
316.5
295.1
275.5
256.4
234.1
209.4
<i>181.0</i>
148.0
131.7
166.1
73.1
25.1
0.0

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