

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: P646729

Luminaire Tested: **GALN-SA1C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3079.5 lumens  
Efficiency: N/A  
Efficacy: 54.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

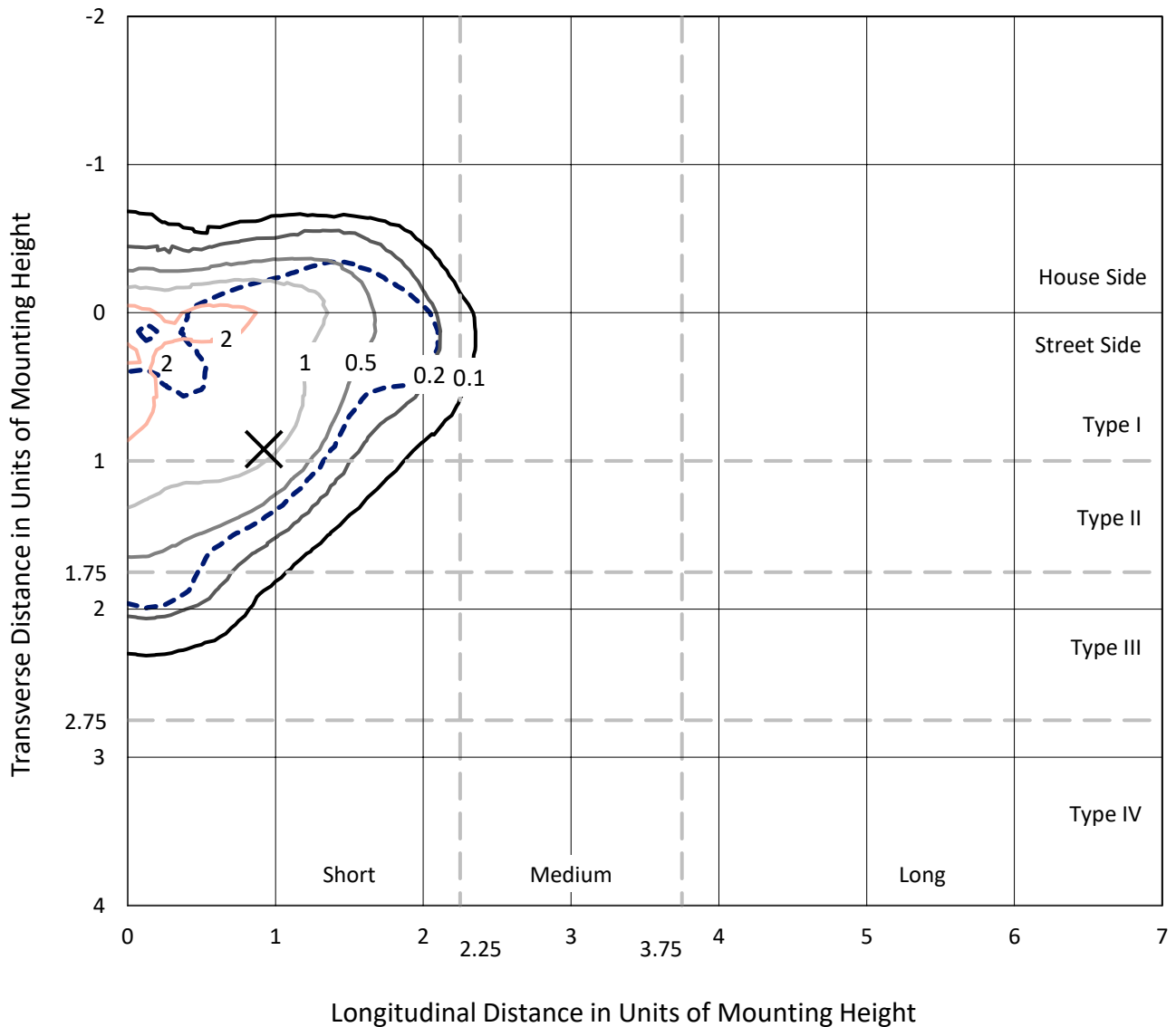
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

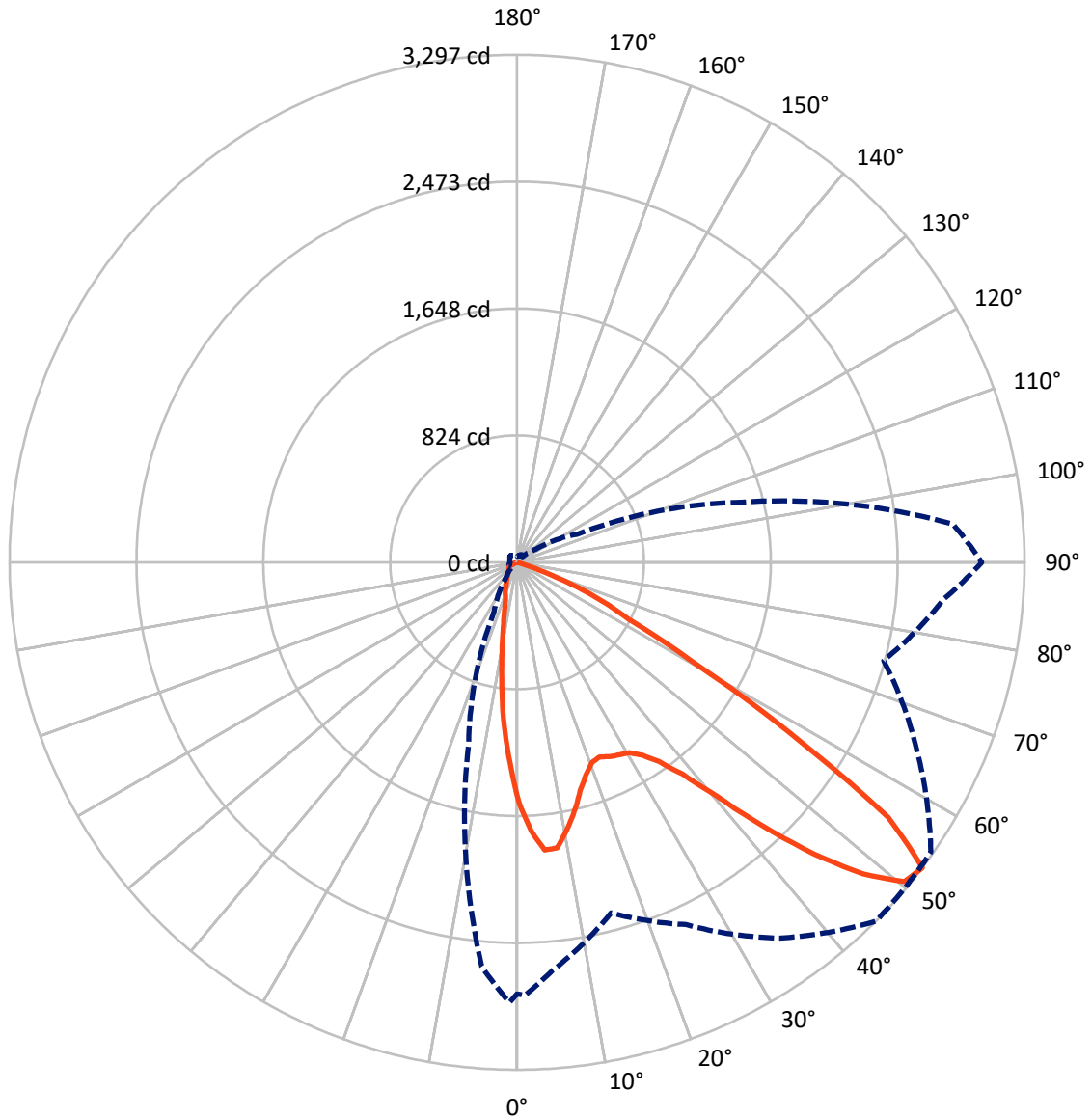
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	625.0	0.0	625.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	2454.5	0.0	2454.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	3079.5	0.0	3079.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.9	3.7
10°-20°	224.7	7.3
20°-30°	341.9	11.1
30°-40°	511.0	16.6
40°-50°	727.8	23.6
50°-60°	782.3	25.4
60°-70°	346.7	11.3
70°-80°	28.0	0.9
80°-90°	3.3	0.1
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°	3079.5	100.0
0°-180°	3079.5	100.0

**Coefficient of Utilization**

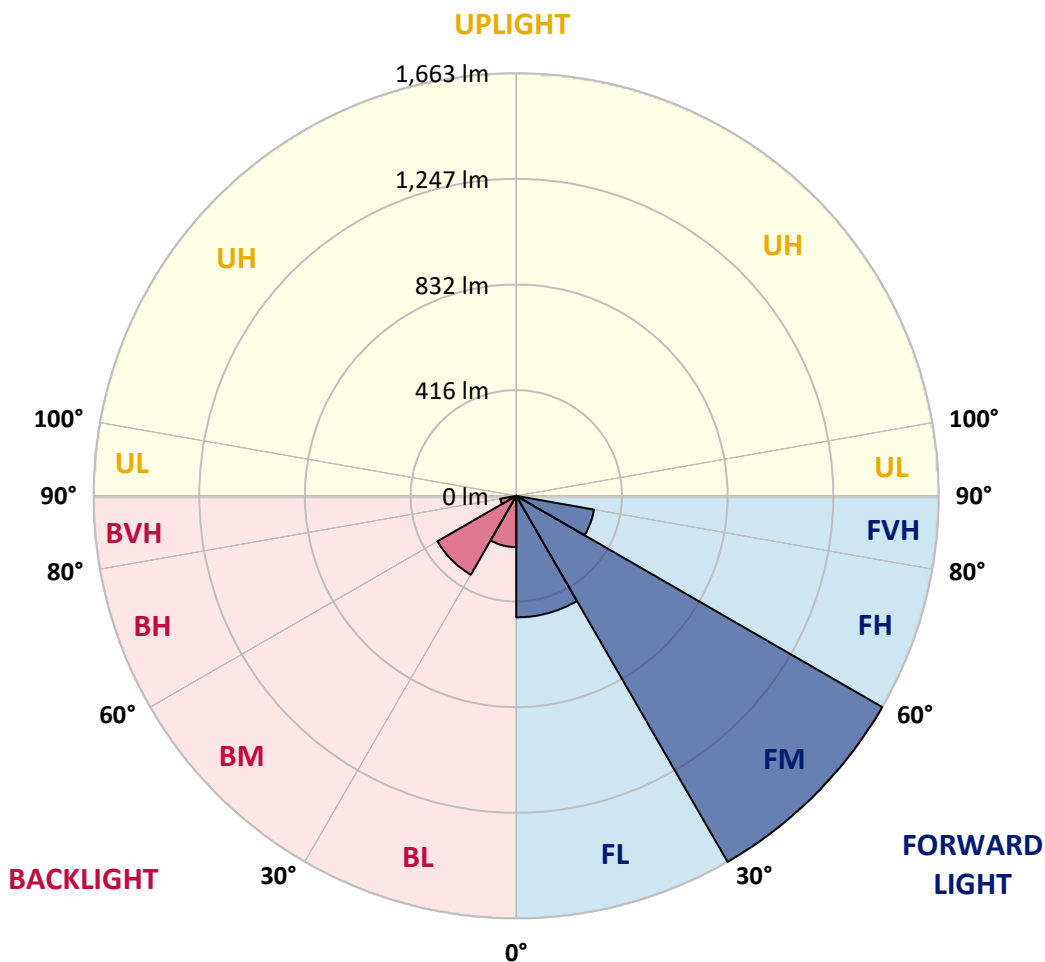


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.3	15.5			
FM (30°-60°)	1663.0	54.0			
FH (60°-80°)	310.8	10.1			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	202.1	6.6	B1/500		
BM (30°-60°)	358.1	11.6	B1/1000		
BH (60°-80°)	63.9	2.1	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5
2.5°	1652.3	1657.1	1683.8	1717.1	1734.7	1774.7	1746.8	1754.1	1739.0	1685.6	1643.8
5°	1602.0	1601.5	1635.4	1717.7	1795.9	1875.2	1877.6	1835.3	1760.7	1679.0	1562.1
7.5°	1450.7	1474.2	1509.4	1640.8	1785.6	1844.9	1873.4	1823.8	1709.3	1592.4	1465.8
10°	1336.2	1348.2	1407.6	1566.3	1672.3	1751.6	1769.2	1740.8	1652.9	1507.0	1365.2
12.5°	1270.1	1276.2	1345.8	1479.1	1591.1	1649.9	1658.4	1671.7	1608.8	1471.8	1301.7
15°	1270.7	1275.6	1369.5	1480.9	1525.1	1509.4	1537.3	1536.6	1563.9	1465.1	1354.9
17.5°	1362.2	1367.7	1452.5	1507.6	1488.2	1451.2	1449.4	1477.3	1534.8	1548.1	1435.5
20°	1519.6	1532.4	1594.8	1591.8	1482.8	1408.2	1387.6	1408.9	1542.7	1618.4	1597.8
22.5°	1731.7	1749.2	1792.8	1709.3	1507.6	1379.2	1372.5	1413.7	1594.8	1775.3	1782.0
25°	1977.5	2007.2	2028.4	1921.2	1596.0	1429.4	1398.0	1468.8	1665.0	1945.4	2016.4
27.5°	2140.5	2171.4	2166.6	2013.3	1655.3	1442.8	1416.1	1482.1	1726.2	1986.1	2138.7
30°	2267.7	2286.5	2320.4	2063.0	1714.7	1480.3	1434.8	1538.4	1746.2	2056.3	2286.5
32.5°	2416.1	2428.8	2431.2	2150.8	1806.1	1527.6	1493.0	1608.8	1834.6	2123.6	2417.3
35°	2565.7	2584.4	2545.1	2259.2	1862.5	1615.4	1590.0	1730.4	1905.5	2193.2	2561.4
37.5°	2728.1	2737.7	2646.9	2304.1	1943.1	1758.3	1744.4	1861.9	2028.4	2319.2	2721.4
40°	2864.3	2873.4	2755.3	2359.2	2027.8	1958.2	1993.9	2112.6	2195.6	2401.0	2801.3
42.5°	2940.0	2961.2	2791.6	2328.9	2198.0	2184.7	2343.4	2385.2	2389.5	2424.0	2872.8
45°	2960.6	2950.9	2731.7	2353.7	2347.0	2557.2	2701.4	2756.5	2582.0	2466.4	2891.0
47.5°	2865.5	2878.2	2643.3	2331.9	2542.7	2839.5	3026.1	3128.4	2725.6	2429.4	2846.1
50°	2788.6	2772.2	2614.8	2316.2	2595.4	2972.7	3260.4	3283.4	2857.6	2474.8	2797.1
52.5°	2803.8	2814.0	2660.2	2357.9	2596.6	2980.6	3296.7	3281.0	2861.9	2464.6	2779.5
55°	2835.9	2790.4	2640.8	2265.9	2422.8	2760.7	2926.1	2901.9	2641.5	2355.0	2736.5
57.5°	2447.0	2517.3	2428.2	2023.0	1988.5	2080.0	2076.9	2151.4	1970.3	2026.6	2491.2
60°	1986.1	1998.1	2031.5	1730.4	1376.1	1344.6	1301.0	1253.8	1325.9	1732.9	2265.9
62.5°	1746.8	1732.3	1851.0	1574.2	971.5	813.5	806.2	835.2	1023.0	1652.9	2125.4
65°	1269.6	1287.7	1373.7	1221.7	729.3	620.8	610.0	695.9	827.9	1324.7	1622.1
67.5°	775.2	810.4	818.3	753.5	494.9	393.1	377.3	455.5	597.8	857.1	951.0
70°	358.0	400.3	440.4	411.2	286.5	161.7	152.6	191.4	301.6	493.1	504.6
72.5°	108.4	109.0	152.6	159.3	92.7	36.3	32.1	42.4	102.3	162.9	171.4
75°	7.9	8.5	20.6	23.6	17.5	9.1	9.7	11.5	21.8	36.3	27.2
77.5°	0.6	0.6	0.6	3.1	5.5	6.0	7.9	9.1	11.5	13.3	12.1
80°	0.6	0.0	0.6	2.4	4.2	6.0	7.3	8.5	9.1	10.3	9.1
82.5°	0.0	0.0	0.0	1.8	4.2	6.0	6.7	9.1	10.3	12.1	10.3
85°	0.0	0.0	0.0	1.8	4.2	6.7	6.0	3.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5
2.5°	1651.1	1627.5	1573.6	1546.3	1482.1	1473.1	1410.0	1399.8	1378.5	1367.0	1339.2
5°	1510.6	1482.1	1394.3	1320.4	1234.4	1174.4	1128.4	1086.6	1062.4	1040.0	1050.2
7.5°	1396.1	1313.2	1215.6	1092.1	992.7	928.6	858.2	800.7	766.8	743.8	749.3
10°	1276.2	1222.3	1086.6	947.9	827.9	782.5	727.4	683.2	635.4	594.2	574.8
12.5°	1238.6	1158.7	988.5	847.4	756.5	712.3	649.3	598.4	537.2	486.9	469.4
15°	1245.3	1168.4	961.8	811.0	703.8	627.5	552.4	489.4	422.2	387.0	368.9
17.5°	1353.7	1220.5	979.4	772.9	630.5	524.5	431.8	351.9	301.6	265.3	257.5
20°	1487.0	1333.1	1017.0	745.0	570.6	417.3	315.5	246.5	204.8	198.6	196.8
22.5°	1682.0	1517.2	1097.5	726.2	497.3	325.3	216.3	179.3	167.8	166.5	167.2
25°	1954.5	1748.0	1185.3	710.5	442.2	250.8	176.9	152.1	148.4	146.6	149.6
27.5°	2072.7	1887.3	1232.0	676.6	391.9	225.9	174.5	150.8	140.5	137.5	139.3
30°	2218.6	1980.0	1305.3	618.4	318.0	186.0	162.9	164.1	159.3	144.2	139.3
32.5°	2412.5	2095.7	1342.2	577.2	284.1	153.9	119.3	109.6	122.4	124.8	129.0
35°	2536.6	2213.2	1361.0	553.0	266.5	131.5	101.2	92.1	89.0	89.7	92.1
37.5°	2767.4	2371.9	1384.6	527.6	253.1	114.5	91.5	83.0	78.8	78.8	81.2
40°	2905.5	2497.8	1416.7	513.6	239.8	104.2	83.0	75.7	72.1	72.1	73.3
42.5°	2940.0	2560.3	1405.8	508.8	224.7	101.8	75.7	70.2	66.0	65.4	64.8
45°	3001.8	2655.3	1407.6	503.3	209.0	92.7	71.5	65.4	59.4	58.7	58.2
47.5°	3069.7	2723.8	1411.3	482.1	193.8	77.5	74.5	60.6	53.3	52.1	52.1
50°	3011.5	2778.3	1442.8	461.0	174.5	63.0	73.3	56.9	47.2	45.4	46.0
52.5°	3018.8	2842.5	1509.4	431.3	150.2	50.3	59.4	53.9	43.0	40.0	40.6
55°	2902.5	2774.6	1518.5	399.7	117.5	38.8	45.4	47.2	36.3	35.2	35.2
57.5°	2498.5	2349.5	1339.8	324.0	77.5	32.1	32.7	41.2	31.5	30.3	30.9
60°	2138.1	1886.1	1078.1	213.8	48.5	25.4	23.6	41.8	27.9	27.2	29.0
62.5°	1949.1	1549.9	817.7	132.6	33.3	19.4	16.4	33.9	24.2	24.2	26.6
65°	1408.2	1041.2	475.4	69.7	23.6	15.1	12.1	19.4	20.0	20.6	21.8
67.5°	872.2	525.7	200.4	33.9	15.7	10.3	7.9	12.1	13.3	13.3	14.6
70°	430.6	209.5	66.6	19.4	12.1	8.5	5.5	6.7	6.7	6.0	6.7
72.5°	133.3	63.0	17.0	12.1	8.5	5.5	3.1	2.4	1.2	0.0	0.6
75°	15.1	12.1	10.9	8.5	5.5	2.4	0.6	0.0	0.0	0.0	0.0
77.5°	9.1	10.3	10.3	8.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	7.3	7.9	8.5	7.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	10.3	11.5	10.3	6.7	3.1	1.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.8	0.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5
2.5°	1327.7	1314.3	1333.1	1305.3	1304.6	1305.3	1297.4	1290.1	1301.7	1332.5	1335.6
5°	1013.4	1041.8	1050.9	1080.5	1064.2	1040.0	1044.8	1028.5	1068.4	1086.0	1072.1
7.5°	737.7	735.9	797.1	800.7	808.6	809.2	808.0	775.9	743.1	750.4	772.3
10°	572.4	541.5	571.2	568.1	587.5	582.1	589.9	555.4	566.9	566.9	580.8
12.5°	466.4	433.7	428.2	420.3	428.2	431.3	434.3	427.6	447.0	456.1	465.8
15°	356.1	337.9	333.2	318.0	320.4	328.9	336.1	339.2	333.2	347.0	348.3
17.5°	258.6	258.0	261.1	260.4	258.0	256.2	255.6	247.7	245.3	246.5	251.3
20°	196.2	201.1	211.4	221.7	227.1	220.5	211.4	198.1	192.6	193.8	194.4
22.5°	167.8	175.1	188.9	200.4	205.9	193.8	177.5	166.0	163.6	162.9	162.3
25°	152.1	160.5	170.8	174.5	173.8	166.5	154.5	149.6	148.4	147.2	141.7
27.5°	143.5	146.6	148.4	152.6	154.5	149.6	146.6	139.3	138.1	138.1	134.4
30°	138.7	136.9	139.3	136.2	138.7	135.1	135.7	135.7	132.6	133.9	133.9
32.5°	129.0	129.6	129.6	123.6	125.4	121.1	125.4	129.0	129.6	130.2	135.1
35°	94.5	105.4	110.9	110.9	112.7	109.6	109.0	104.8	99.4	93.9	91.5
37.5°	83.0	87.2	94.5	98.7	101.8	99.4	93.9	87.2	84.2	81.7	79.3
40°	73.9	77.5	82.4	87.2	93.3	90.3	81.7	78.8	75.1	75.1	72.7
42.5°	66.6	68.4	71.5	78.8	85.4	79.3	73.3	70.9	69.1	68.4	67.8
45°	60.0	60.6	63.6	69.7	77.5	71.5	65.4	62.4	63.0	63.6	63.0
47.5°	53.9	55.1	56.9	64.2	69.1	66.0	59.4	57.6	57.6	57.6	58.2
50°	46.7	49.6	53.3	59.4	63.0	61.2	55.7	53.3	52.1	52.1	52.7
52.5°	41.8	44.2	49.1	56.3	61.2	58.2	52.7	49.1	46.7	46.0	47.2
55°	36.3	40.6	48.5	53.9	60.6	57.6	51.5	47.2	43.0	42.4	42.4
57.5°	32.7	39.4	46.7	53.3	58.7	56.3	51.5	46.0	40.6	40.0	40.0
60°	30.9	38.1	45.4	51.5	58.7	55.1	50.9	44.8	38.8	38.8	38.1
62.5°	29.0	35.7	43.0	49.1	56.3	53.3	49.1	43.0	37.0	37.0	35.7
65°	24.2	30.9	35.7	41.2	49.1	46.0	41.8	37.6	32.7	31.5	32.1
67.5°	17.0	21.2	26.1	31.5	36.3	35.2	33.3	30.3	26.1	25.4	24.8
70°	8.5	11.5	15.7	21.2	25.4	24.2	23.0	20.6	18.2	17.5	17.5
72.5°	1.2	3.6	6.7	9.7	13.3	13.9	13.3	12.7	12.1	11.5	12.1
75°	0.0	0.0	0.0	2.4	5.5	6.7	7.9	9.1	9.1	7.9	9.7
77.5°	0.0	0.0	0.0	0.0	0.6	3.1	6.0	7.9	9.7	8.5	11.5
80°	0.0	0.0	0.0	0.0	0.6	3.6	6.0	8.5	9.7	8.5	12.1
82.5°	0.0	0.0	0.0	0.0	0.6	4.2	6.0	7.9	9.1	8.5	10.9
85°	0.0	0.0	0.0	0.0	1.8	3.6	2.4	1.2	0.6	0.6	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5	1561.5
2.5°	1352.5	1395.5	1441.6	1459.1	1513.6	1554.8	1582.7	1642.7	1651.7	1652.3
5°	1086.6	1108.4	1187.2	1224.1	1305.3	1368.3	1435.5	1532.4	1597.2	1602.0
7.5°	772.3	832.8	866.2	962.5	1062.4	1161.1	1261.0	1373.7	1448.8	1450.7
10°	621.5	660.8	720.2	792.2	876.4	976.9	1110.2	1241.1	1317.4	1336.2
12.5°	500.3	569.3	637.2	711.7	775.9	851.6	995.1	1169.6	1232.6	1270.1
15°	385.2	448.2	528.1	615.4	688.1	789.2	952.8	1152.0	1258.0	1270.7
17.5°	284.1	340.4	414.3	496.7	605.7	749.3	960.0	1241.1	1341.0	1362.2
20°	204.1	236.9	295.0	390.6	529.4	702.6	967.3	1331.3	1483.3	1519.6
22.5°	161.7	175.1	213.2	298.0	444.0	653.6	1018.8	1503.9	1679.0	1731.7
25°	140.5	147.8	166.0	235.0	390.1	648.7	1101.1	1711.1	1939.4	1977.5
27.5°	135.7	136.9	152.6	215.6	361.0	616.6	1132.6	1858.3	2101.7	2140.5
30°	143.0	162.3	163.6	182.3	307.1	553.0	1149.0	2000.6	2239.2	2267.7
32.5°	123.6	117.5	121.8	141.1	270.1	516.1	1179.9	2124.7	2396.1	2416.1
35°	86.0	90.3	99.9	122.4	236.2	477.3	1187.7	2261.6	2545.1	2565.7
37.5°	79.3	81.7	89.7	104.2	207.7	455.5	1176.8	2361.6	2699.5	2728.1
40°	73.9	76.9	81.2	94.5	186.6	431.3	1161.7	2451.8	2794.1	2864.3
42.5°	69.7	72.1	75.7	90.3	168.3	407.0	1140.5	2579.0	2878.9	2940.0
45°	64.8	68.4	72.7	87.9	158.1	390.6	1124.8	2571.1	2927.9	2960.6
47.5°	60.0	66.0	70.9	81.7	155.0	382.8	1131.4	2541.5	2887.9	2865.5
50°	55.1	63.0	71.5	67.8	147.8	367.1	1139.3	2582.0	2792.8	2788.6
52.5°	50.9	60.0	66.6	55.7	131.5	351.9	1215.6	2635.3	2860.1	2803.8
55°	44.8	53.9	53.3	44.8	106.6	340.4	1275.6	2636.6	2814.7	2835.9
57.5°	40.6	47.8	41.8	37.6	78.8	284.7	1178.1	2210.8	2409.4	2447.0
60°	37.6	46.7	31.5	29.7	51.5	205.3	1028.5	1712.3	1915.2	1986.1
62.5°	34.5	44.2	24.8	24.2	35.7	146.0	845.6	1433.0	1650.5	1746.8
65°	30.3	31.5	20.0	18.8	25.4	78.8	514.8	986.7	1233.8	1269.6
67.5°	24.8	24.2	16.4	15.1	17.0	38.1	227.1	494.2	715.3	775.2
70°	20.0	20.0	13.9	12.1	12.1	17.5	59.4	196.8	323.5	358.0
72.5°	14.6	15.1	10.9	9.7	9.1	8.5	9.7	39.4	84.8	108.4
75°	12.7	13.3	10.9	8.5	6.7	5.5	4.2	3.6	4.9	7.9
77.5°	13.9	13.9	11.5	7.9	6.0	4.2	2.4	1.2	1.2	0.6
80°	17.5	18.2	15.1	10.3	7.3	4.9	3.1	1.2	0.6	0.6
82.5°	18.8	20.6	17.0	12.7	9.1	5.5	3.1	0.6	0.0	0.0
85°	4.9	7.9	13.3	11.5	9.1	5.5	3.1	0.6	0.0	0.0
87.5°	0.0	0.6	1.8	1.8	2.4	2.4	1.8	0.6	0.0	0.0
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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