

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: P269009

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SLL-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4759.2 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

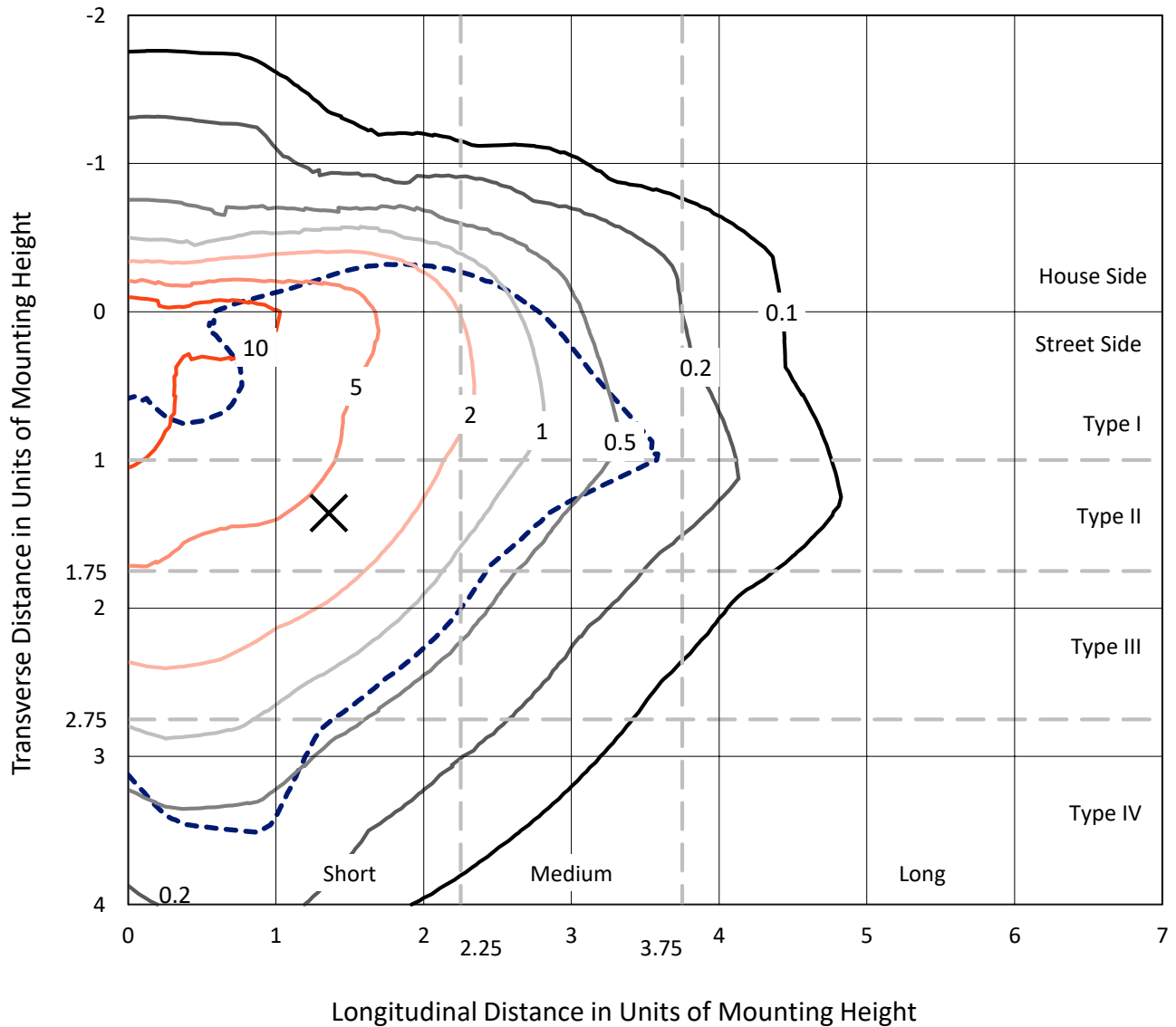
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

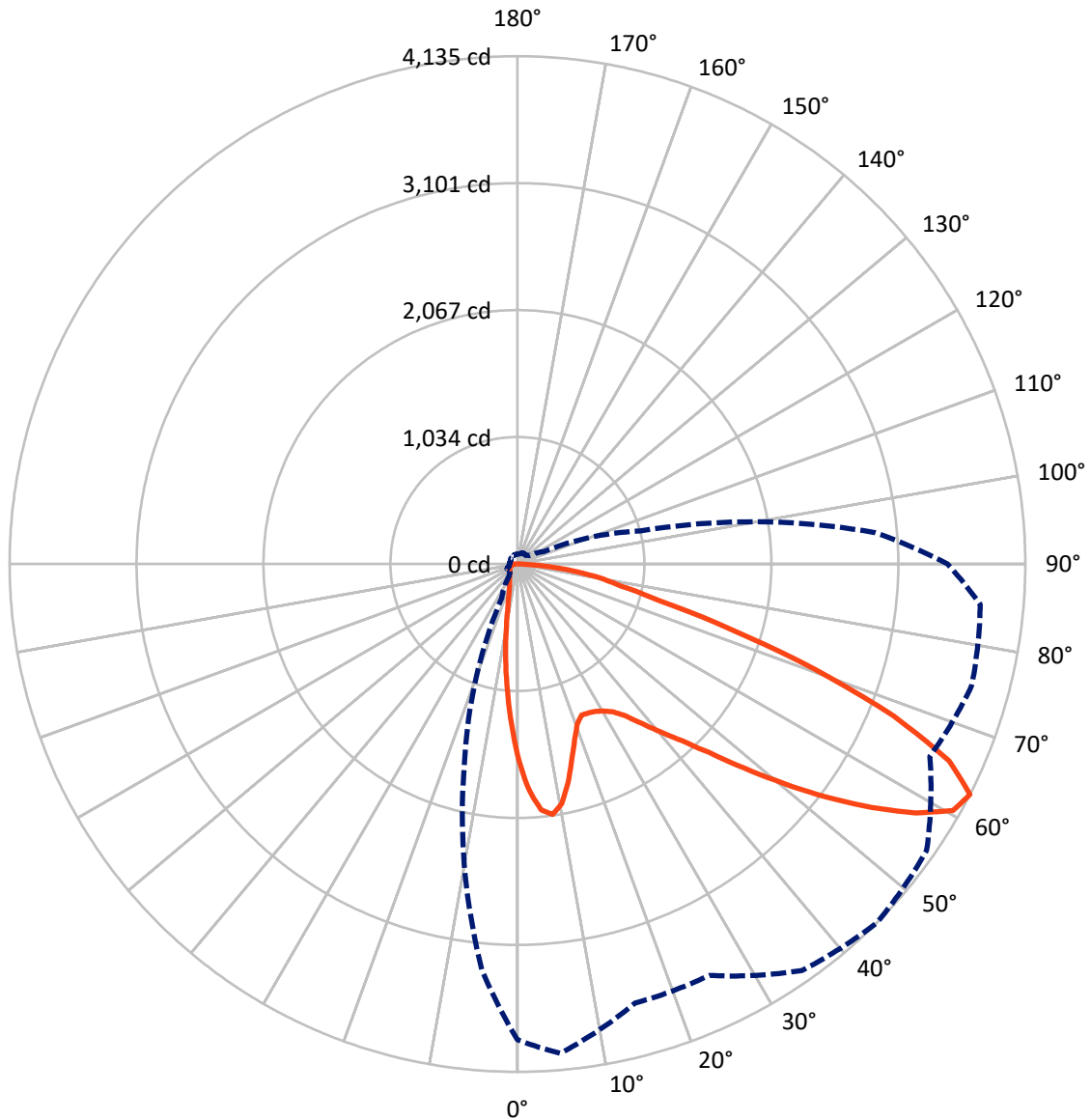
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	787.6	0.0	787.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3971.6	0.0	3971.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4759.2	0.0	4759.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	2.5
10°-20°	214.6	4.5
20°-30°	312.9	6.6
30°-40°	482.0	10.1
40°-50°	709.3	14.9
50°-60°	1040.4	21.9
60°-70°	1163.1	24.4
70°-80°	569.4	12.0
80°-90°	150.3	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°	4759.2	100.0
0°-180°	4759.2	100.0



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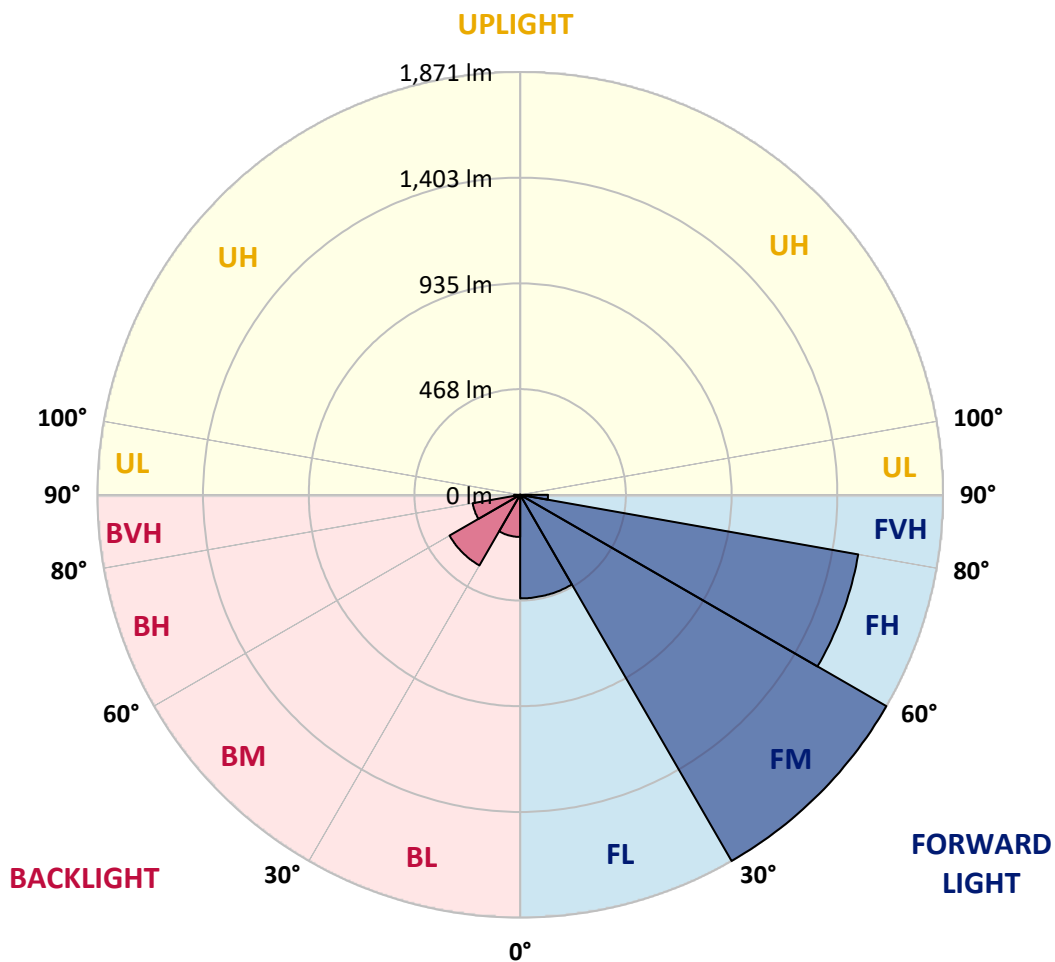
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.3	9.6			
FM	(30°-60°)	1870.9	39.3			
FH	(60°-80°)	1519.0	31.9			G1/1800
FVH	(80°-90°)	123.5	2.6			G2/225
BL	(0°-30°)	186.3	3.9	B1/500		
BM	(30°-60°)	360.9	7.6	B1/1000		
BH	(60°-80°)	213.5	4.5	B1/500		G1/500
BVH	(80°-90°)	26.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1670.7	1697.3	1749.4	1788.4	1835.7	1846.7	1861.9	1847.0	1820.7	1785.6	1774.1
5°	1571.0	1628.1	1754.4	1865.6	1964.6	2010.5	2023.3	1985.4	1908.8	1808.1	1746.6
7.5°	1411.1	1492.3	1663.4	1827.2	1972.9	2058.9	2056.8	1968.6	1827.7	1663.7	1564.9
10°	1273.3	1366.0	1562.2	1745.2	1899.8	1983.4	1951.2	1838.4	1670.2	1481.2	1374.2
12.5°	1196.2	1286.9	1485.9	1669.9	1799.1	1828.0	1803.3	1692.9	1534.5	1343.4	1249.7
15°	1182.8	1282.5	1455.7	1605.4	1677.8	1652.6	1623.3	1573.9	1461.9	1298.9	1201.4
17.5°	1240.6	1350.5	1490.5	1560.3	1548.0	1504.3	1495.9	1501.4	1474.5	1348.4	1235.9
20°	1351.5	1483.5	1573.4	1539.1	1449.3	1389.1	1391.2	1475.2	1555.1	1473.7	1345.2
22.5°	1507.1	1657.6	1692.9	1550.4	1407.7	1336.4	1353.7	1489.7	1683.6	1656.8	1492.9
25°	1708.7	1845.7	1820.3	1591.2	1412.0	1342.8	1356.8	1539.3	1835.2	1840.0	1675.3
27.5°	1903.8	2031.0	1927.4	1645.3	1429.3	1358.3	1376.7	1617.6	1980.3	2038.9	1884.1
30°	2056.1	2144.6	1969.8	1694.8	1463.2	1388.4	1411.1	1691.9	2046.1	2173.0	2044.8
32.5°	2182.2	2245.8	2037.3	1755.9	1525.9	1435.9	1475.7	1782.1	2141.1	2300.6	2202.0
35°	2343.3	2361.4	2121.2	1824.3	1622.2	1518.1	1567.9	1870.6	2231.6	2429.6	2357.0
37.5°	2532.2	2509.0	2200.5	1917.7	1747.2	1647.1	1688.3	1967.6	2306.2	2575.9	2515.3
40°	2719.0	2663.0	2299.9	2062.6	1929.2	1799.1	1847.9	2071.2	2375.7	2722.5	2669.9
42.5°	2877.8	2794.8	2398.0	2222.0	2098.7	1966.8	2024.9	2175.7	2442.2	2847.4	2804.0
45°	2995.3	2892.3	2491.4	2374.9	2332.3	2189.8	2217.2	2295.2	2514.1	2951.9	2914.5
47.5°	3100.2	2990.1	2597.1	2529.4	2536.6	2479.6	2435.5	2434.3	2598.9	3037.1	3018.8
50°	3240.6	3125.8	2710.6	2688.4	2843.2	2805.3	2707.9	2596.8	2706.2	3133.9	3131.9
52.5°	3434.3	3340.8	2849.3	2859.8	3129.4	3154.4	3033.4	2792.0	2874.1	3311.6	3299.0
55°	3663.2	3608.9	3038.2	3056.8	3480.7	3498.4	3378.3	3036.1	3121.2	3568.7	3533.9
57.5°	3842.0	3830.4	3245.3	3293.2	3742.8	3822.7	3712.3	3318.7	3399.5	3785.4	3698.1
60°	3913.0	3968.8	3465.9	3531.9	3985.2	4074.0	3977.2	3566.9	3646.2	3875.1	3686.7
62.5°	3874.6	3999.2	3700.8	3695.4	4039.4	4134.9	4066.8	3705.1	3829.0	3782.6	3500.2
65°	3697.0	3890.0	3837.2	3653.2	3854.2	3862.1	3840.1	3643.3	3872.2	3489.7	3139.7
67.5°	3310.1	3587.8	3657.7	3292.2	3354.5	3303.4	3266.5	3305.4	3647.3	3051.1	2638.7
70°	2696.1	3114.1	3147.5	2633.2	2604.9	2570.7	2497.2	2709.8	3203.3	2500.5	2093.7
72.5°	1982.3	2421.8	2524.6	1931.3	1800.5	1807.5	1749.4	2042.1	2604.5	1857.4	1563.2
75°	1356.3	1753.6	1975.3	1347.5	1190.7	1193.5	1186.2	1447.0	2074.4	1292.1	1169.8
77.5°	990.7	1252.9	1489.7	906.0	879.6	863.4	859.4	1012.5	1590.4	938.2	908.4
80°	795.1	925.7	1000.7	627.8	675.3	673.9	652.2	696.1	1038.6	686.2	679.4
82.5°	551.5	711.4	810.8	492.1	455.7	448.2	453.4	518.5	734.2	469.0	446.1
85°	291.0	472.5	802.9	436.0	270.5	215.9	268.5	424.5	636.0	248.6	217.7
87.5°	37.2	136.5	531.5	174.0	106.8	57.5	127.4	239.0	408.4	50.8	44.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1744.5	1709.7	1664.2	1622.0	1578.3	1534.9	1478.2	1442.6	1418.0	1413.3	1402.9
5°	1702.1	1586.4	1499.1	1423.5	1355.0	1258.2	1204.4	1160.0	1136.3	1133.9	1128.1
7.5°	1506.6	1347.1	1229.2	1122.2	1025.1	946.9	860.4	820.2	803.8	807.7	811.6
10°	1303.4	1124.9	989.5	880.1	794.6	728.6	659.3	612.5	580.0	573.5	572.2
12.5°	1154.9	959.1	827.5	750.4	684.1	622.2	548.7	493.3	451.3	436.8	427.2
15°	1092.0	878.1	740.2	656.9	584.0	505.1	436.8	379.1	340.4	327.8	320.8
17.5°	1105.4	855.5	679.9	573.5	480.1	397.9	311.8	262.5	239.0	233.1	233.1
20°	1175.4	851.4	630.3	496.6	380.2	284.9	214.2	185.9	178.5	177.7	179.8
22.5°	1273.8	866.0	593.2	429.8	295.4	208.0	166.9	156.5	153.0	153.8	156.1
25°	1420.3	915.5	566.1	370.5	231.9	170.3	148.8	142.7	141.0	143.1	146.0
27.5°	1594.0	964.9	549.5	325.7	195.7	155.6	141.6	134.9	136.1	138.7	141.3
30°	1746.6	1005.5	523.0	293.7	184.4	156.5	141.6	132.6	131.6	132.1	132.9
32.5°	1883.3	1033.0	492.1	263.5	159.1	138.9	132.1	130.9	125.0	123.0	123.2
35°	2001.5	1033.0	473.5	245.6	142.7	123.2	112.3	105.7	102.9	103.0	106.0
37.5°	2115.1	1012.2	464.3	235.7	133.7	117.1	107.5	101.8	97.8	97.0	97.6
40°	2215.7	982.1	454.0	231.6	126.9	113.5	104.5	99.7	95.5	94.2	94.4
42.5°	2296.2	957.9	442.3	226.1	122.7	110.9	102.2	98.2	93.5	92.0	91.8
45°	2383.4	949.7	427.2	215.1	124.8	111.2	101.8	97.3	92.6	91.1	90.5
47.5°	2498.1	975.1	411.6	201.9	129.3	112.5	102.5	97.3	92.3	91.1	90.5
50°	2642.9	1034.7	391.7	182.8	124.8	116.2	102.2	96.6	92.3	91.1	90.0
52.5°	2828.7	1115.2	365.5	160.8	122.2	125.0	101.8	95.0	91.1	89.2	87.3
55°	3054.3	1181.2	334.3	142.8	116.2	122.7	101.0	93.2	88.9	86.3	84.8
57.5°	3219.7	1205.0	294.4	131.1	107.7	118.8	99.9	90.8	86.3	84.3	82.1
60°	3187.0	1159.0	260.6	123.7	102.9	107.3	99.2	88.8	84.0	82.5	80.6
62.5°	2925.2	1038.6	238.9	120.4	99.7	97.8	99.9	86.5	81.8	80.3	79.8
65°	2532.5	860.9	230.2	119.6	97.0	92.3	92.9	84.3	79.5	78.2	77.8
67.5°	2089.0	694.8	222.6	122.2	93.7	88.5	85.8	81.0	77.2	75.8	74.7
70°	1647.4	577.9	219.2	120.6	89.6	84.5	81.7	77.8	74.3	73.0	72.3
72.5°	1326.6	488.1	217.4	119.0	84.0	79.3	76.6	73.2	69.6	69.1	68.4
75°	1122.6	383.8	199.1	114.1	77.8	73.0	71.1	68.0	64.4	64.4	63.8
77.5°	866.0	277.5	165.6	101.0	71.1	65.9	64.4	62.1	57.9	58.6	58.3
80°	639.7	181.1	129.4	83.7	63.1	58.1	57.3	54.9	50.5	51.6	51.6
82.5°	438.3	118.8	93.2	68.5	53.9	49.1	49.1	46.8	41.9	42.4	43.9
85°	220.1	81.7	69.6	53.1	41.9	39.4	39.4	37.6	32.7	33.0	35.0
87.5°	67.0	49.1	46.1	38.0	30.2	29.6	28.2	26.9	23.9	23.5	24.9
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1386.9	1371.9	1353.8	1314.1	1300.7	1299.9	1312.1	1299.5	1323.6	1313.3	1324.6
5°	1118.4	1103.7	1083.6	1033.0	1002.0	981.0	971.2	941.9	963.1	947.6	960.4
7.5°	822.6	825.9	812.5	782.8	715.5	681.8	662.0	644.2	659.5	658.0	682.5
10°	578.1	587.3	577.9	547.8	493.3	474.8	478.4	485.5	505.7	516.2	554.2
12.5°	416.3	415.7	409.6	382.8	346.9	349.0	364.0	376.2	394.7	405.8	444.5
15°	310.9	306.1	303.4	281.4	261.0	265.5	272.8	274.3	285.9	292.5	323.8
17.5°	234.9	237.3	240.1	224.4	209.0	206.2	200.4	193.3	196.8	198.0	213.7
20°	186.6	196.0	202.9	192.1	176.3	168.0	160.6	155.9	155.9	155.6	160.1
22.5°	163.0	169.8	177.3	169.8	155.6	148.3	144.2	140.4	140.0	140.0	144.2
25°	150.1	155.1	162.5	157.3	146.8	141.3	137.4	132.6	130.9	130.3	133.2
27.5°	143.9	146.0	149.7	144.9	136.1	133.4	132.4	128.2	125.9	124.5	127.4
30°	133.2	132.6	132.9	128.2	121.1	120.8	122.7	123.4	122.7	122.3	126.9
32.5°	123.2	122.2	121.9	117.8	111.2	109.7	111.2	112.7	114.7	117.1	122.3
35°	110.8	113.2	114.9	111.2	103.3	98.6	96.7	94.0	92.3	92.3	98.4
37.5°	100.7	106.8	109.1	105.7	97.0	90.5	87.3	86.9	87.1	88.2	94.0
40°	97.3	101.8	103.8	100.5	91.8	85.8	84.0	83.5	84.0	85.6	91.3
42.5°	95.2	98.4	98.2	94.0	86.9	82.6	81.7	81.0	81.7	83.3	89.6
45°	93.5	95.5	93.5	88.5	81.8	79.8	80.0	79.8	80.3	81.8	87.9
47.5°	91.8	92.6	90.0	85.0	78.2	77.8	78.7	79.5	80.0	81.3	87.7
50°	89.6	89.6	87.1	81.8	75.1	75.4	76.6	78.5	78.7	80.3	85.2
52.5°	86.5	86.3	84.8	79.8	72.5	73.2	73.2	75.4	75.8	77.8	83.0
55°	84.3	83.7	83.0	78.2	70.1	71.4	70.6	71.4	72.8	74.6	80.3
57.5°	82.1	81.0	81.0	77.0	68.4	68.8	67.0	68.0	69.6	71.1	77.2
60°	80.0	79.1	79.5	75.1	65.3	64.9	64.0	66.1	66.7	68.5	74.6
62.5°	77.8	77.0	77.2	73.0	63.3	62.1	62.1	63.8	64.0	66.7	72.5
65°	75.8	74.7	74.6	70.8	60.9	59.4	60.1	60.9	61.4	64.0	69.6
67.5°	74.0	72.0	72.0	69.1	58.3	56.8	58.3	58.1	58.8	61.3	65.7
70°	71.7	68.8	69.1	67.7	55.8	53.9	55.2	54.9	55.4	57.0	61.4
72.5°	68.0	65.7	66.1	65.7	53.1	50.5	51.1	51.1	51.1	52.3	57.0
75°	63.3	61.4	63.1	64.4	49.9	46.4	46.8	46.8	46.1	46.8	52.6
77.5°	57.5	56.6	61.8	59.8	46.4	41.9	41.9	41.3	39.7	40.9	47.2
80°	51.3	50.5	57.0	50.2	42.1	36.4	35.8	34.6	33.0	33.7	40.1
82.5°	44.7	43.9	47.9	38.4	36.4	30.2	28.7	26.4	24.9	25.6	31.4
85°	36.7	36.7	36.9	29.0	27.8	23.0	21.5	18.3	16.4	17.0	22.5
87.5°	26.2	26.9	24.9	19.9	16.4	12.8	11.8	9.9	8.4	9.7	11.8
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1382.1	1410.9	1443.7	1485.4	1521.3	1580.2	1636.7	1670.7
5°	1033.4	1081.3	1140.9	1217.7	1289.0	1396.2	1502.8	1571.0
7.5°	739.7	790.9	855.2	950.9	1051.9	1188.7	1329.5	1411.1
10°	611.9	664.6	718.6	783.3	866.0	1014.8	1181.2	1273.3
12.5°	506.3	562.5	620.8	688.8	765.4	898.5	1090.2	1196.2
15°	387.4	450.2	519.0	605.1	701.1	854.6	1067.6	1182.8
17.5°	265.5	335.6	420.1	526.3	643.8	840.5	1108.0	1240.6
20°	182.8	233.9	324.2	448.7	589.9	838.7	1185.5	1351.5
22.5°	153.0	175.8	241.7	377.3	549.5	861.2	1305.4	1507.1
25°	141.6	155.1	193.0	315.2	519.8	913.0	1470.9	1708.7
27.5°	134.7	147.1	175.3	274.7	496.6	973.3	1631.7	1903.8
30°	137.4	149.8	170.3	254.0	465.0	1023.4	1774.5	2056.1
32.5°	123.7	129.3	146.0	235.7	442.1	1065.6	1899.6	2182.2
35°	105.5	115.2	130.3	227.1	442.7	1093.9	2035.9	2343.3
37.5°	100.5	110.1	121.1	223.9	448.7	1123.9	2192.4	2532.2
40°	97.3	106.2	115.6	222.2	454.5	1151.4	2345.7	2719.0
42.5°	95.2	103.3	115.2	215.9	457.2	1176.1	2471.7	2877.8
45°	95.0	103.3	117.1	209.6	461.8	1202.4	2577.4	2995.3
47.5°	95.2	106.8	113.2	201.9	461.8	1246.6	2701.6	3100.2
50°	94.2	112.5	109.1	191.2	450.9	1330.3	2871.5	3240.6
52.5°	93.7	111.7	101.0	174.8	432.4	1463.2	3089.5	3434.3
55°	92.3	107.7	95.2	150.1	410.7	1608.1	3322.8	3663.2
57.5°	91.1	95.5	92.0	128.6	377.3	1710.3	3483.4	3842.0
60°	102.0	83.5	89.6	118.2	332.6	1738.2	3477.2	3913.0
62.5°	94.4	78.2	86.1	115.9	301.1	1659.7	3316.5	3874.6
65°	74.0	74.7	82.6	122.7	292.8	1451.8	3031.9	3697.0
67.5°	67.7	71.4	79.3	131.3	293.6	1162.3	2606.5	3310.1
70°	63.8	67.7	75.4	135.7	295.6	866.4	2060.8	2696.1
72.5°	59.4	62.8	70.8	136.5	282.0	629.4	1588.4	1982.3
75°	54.2	57.3	64.6	119.0	233.6	436.7	1215.0	1356.3
77.5°	48.1	50.5	56.8	91.8	173.5	279.5	912.0	990.7
80°	41.1	42.4	47.6	67.3	118.8	174.8	721.6	795.1
82.5°	33.0	33.4	36.9	50.5	77.2	112.3	483.2	551.5
85°	23.3	23.3	25.4	36.7	52.6	71.1	262.5	291.0
87.5°	11.0	11.3	11.3	20.1	27.5	36.1	60.5	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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