

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: P193810

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193810  
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-02-LED-E1-SLL-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5754 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

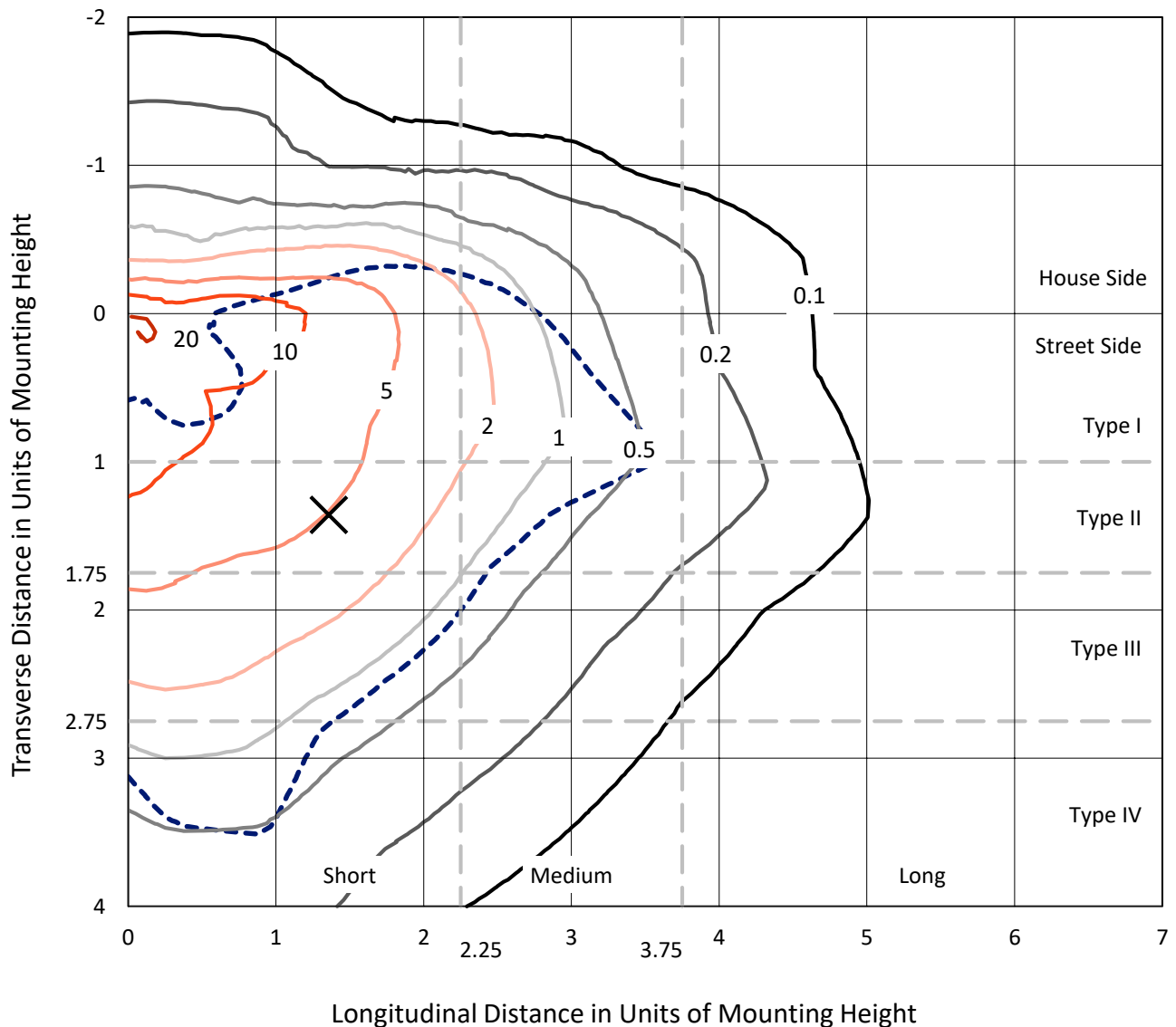
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

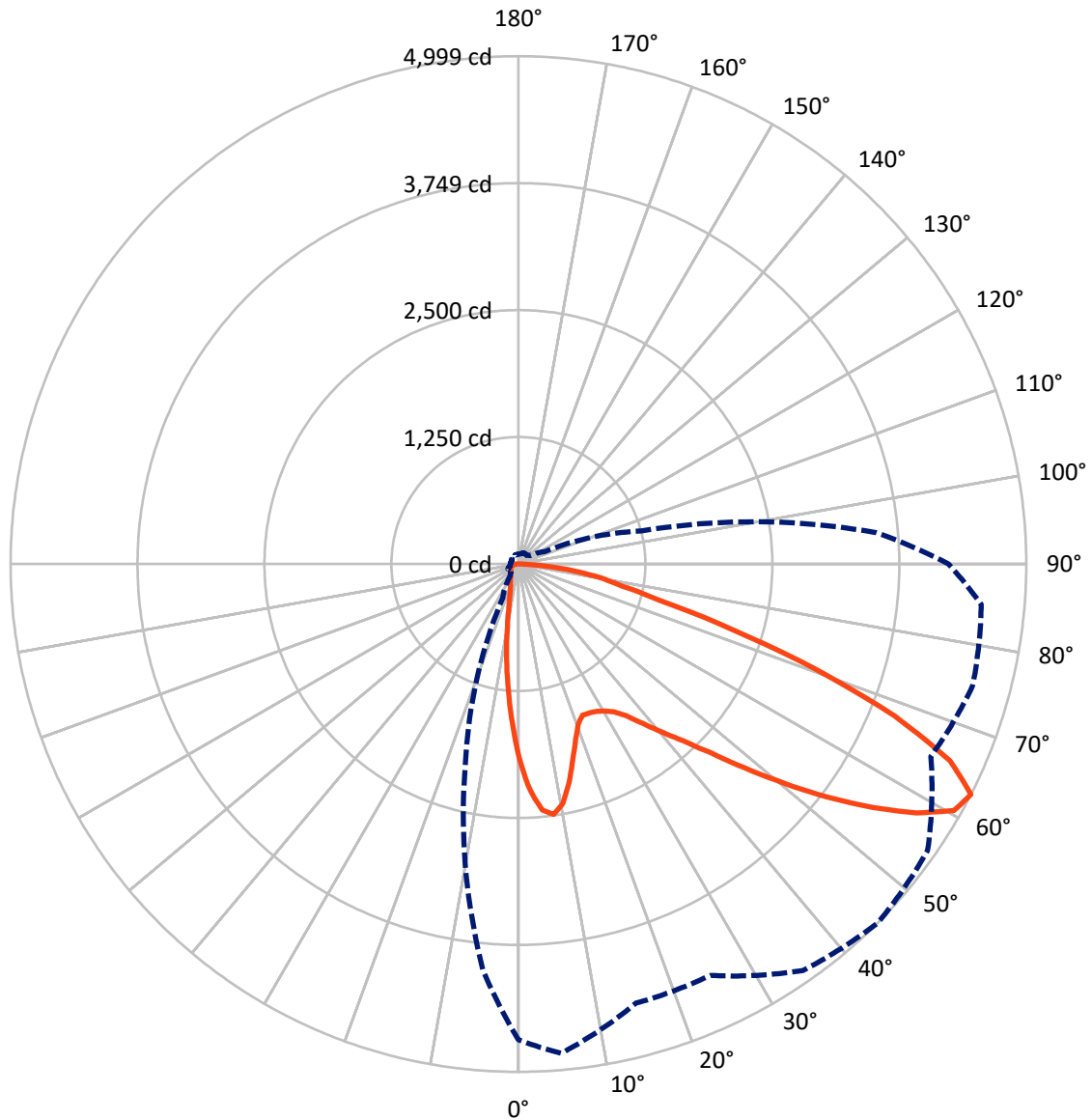
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 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	952.2	0.0	952.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	4801.8	0.0	4801.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	5754.0	0.0	5754.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.5	2.5
10°-20°	259.5	4.5
20°-30°	378.4	6.6
30°-40°	582.7	10.1
40°-50°	857.6	14.9
50°-60°	1257.9	21.9
60°-70°	1406.2	24.4
70°-80°	688.4	12.0
80°-90°	181.8	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°	5754.0	100.0
0°-180°	5754.0	100.0



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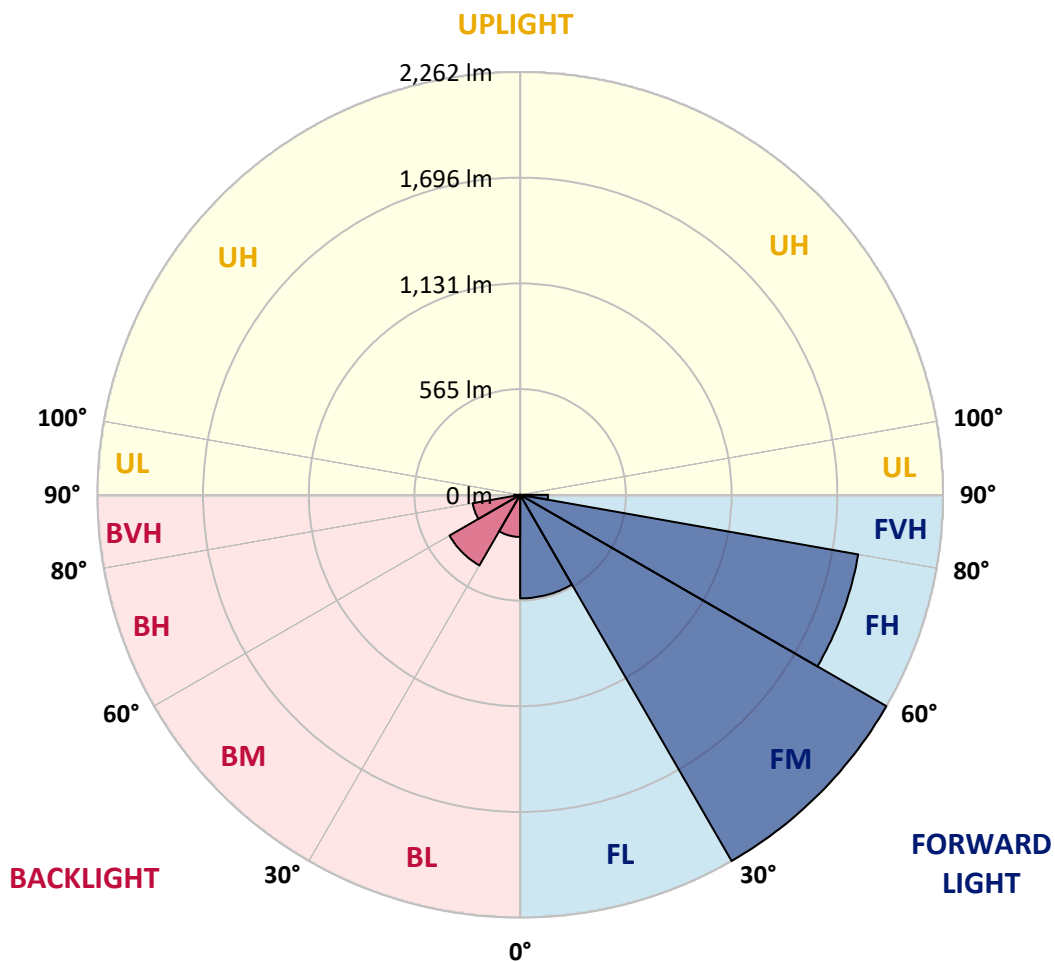
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.1	9.6			
FM (30°-60°)	2262.0	39.3			
FH (60°-80°)	1836.5	31.9			G2/5000
FVH (80°-90°)	149.3	2.6			G2/225
BL (0°-30°)	225.3	3.9	B1/500		
BM (30°-60°)	436.3	7.6	B1/1000		
BH (60°-80°)	258.1	4.5	B1/500		G1/500
BVH (80°-90°)	32.5	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°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	2019.9	2052.2	2115.1	2162.3	2219.5	2232.8	2251.1	2233.1	2201.2	2158.8	2144.9
5°	1899.4	1968.4	2121.1	2255.6	2375.1	2430.8	2446.3	2400.4	2307.8	2186.0	2111.7
7.5°	1706.1	1804.2	2011.1	2209.1	2385.3	2489.3	2486.8	2380.2	2209.7	2011.4	1892.1
10°	1539.5	1651.4	1888.7	2110.1	2297.0	2397.9	2359.0	2222.7	2019.3	1790.9	1661.6
12.5°	1446.1	1555.9	1796.6	2019.0	2175.2	2210.0	2180.3	2046.8	1855.1	1624.2	1511.0
15°	1430.0	1550.5	1759.9	1940.8	2028.5	1998.1	1962.7	1902.9	1767.5	1570.5	1452.5
17.5°	1499.9	1632.8	1802.0	1886.4	1871.6	1818.8	1808.6	1815.3	1782.7	1630.2	1494.2
20°	1634.0	1793.4	1902.3	1860.8	1752.3	1679.6	1682.1	1783.6	1880.1	1781.7	1626.4
22.5°	1822.2	2004.1	2046.8	1874.4	1702.0	1615.7	1636.6	1801.0	2035.4	2003.2	1804.8
25°	2065.8	2231.5	2200.9	1923.8	1707.1	1623.6	1640.4	1861.1	2218.9	2224.6	2025.6
27.5°	2301.8	2455.5	2330.2	1989.2	1728.0	1642.3	1664.4	1955.7	2394.1	2465.0	2278.0
30°	2485.8	2592.8	2381.5	2049.0	1769.1	1678.6	1706.1	2045.5	2473.8	2627.2	2472.2
32.5°	2638.3	2715.2	2463.1	2123.0	1844.7	1735.9	1784.3	2154.7	2588.6	2781.6	2662.3
35°	2833.1	2855.0	2564.6	2205.6	1961.4	1835.5	1895.6	2261.6	2698.1	2937.5	2849.6
37.5°	3061.5	3033.4	2660.4	2318.5	2112.3	1991.5	2041.1	2378.9	2788.2	3114.3	3041.0
40°	3287.4	3219.7	2780.6	2493.7	2332.4	2175.2	2234.1	2504.2	2872.4	3291.5	3227.9
42.5°	3479.4	3379.1	2899.3	2686.4	2537.4	2378.0	2448.2	2630.4	2952.7	3442.7	3390.2
45°	3621.4	3496.8	3012.2	2871.4	2819.9	2647.5	2680.7	2774.9	3039.7	3568.9	3523.6
47.5°	3748.2	3615.1	3140.0	3058.0	3066.9	2997.9	2944.5	2943.2	3142.2	3672.0	3649.8
50°	3918.1	3779.2	3277.2	3250.4	3437.6	3391.7	3273.8	3139.6	3271.9	3789.0	3786.5
52.5°	4152.1	4039.2	3444.9	3457.5	3783.6	3813.7	3667.6	3375.6	3474.9	4003.8	3988.6
55°	4428.9	4363.1	3673.3	3695.7	4208.1	4229.6	4084.4	3670.7	3773.5	4314.7	4272.6
57.5°	4644.9	4631.0	3923.8	3981.6	4525.1	4621.9	4488.4	4012.3	4110.1	4576.6	4471.0
60°	4731.0	4798.3	4190.4	4270.1	4818.3	4925.5	4808.5	4312.5	4408.3	4685.1	4457.4
62.5°	4684.5	4835.0	4474.5	4467.8	4883.8	4999.2	4917.0	4479.5	4629.4	4573.1	4231.8
65°	4469.7	4703.1	4639.2	4416.9	4659.8	4669.3	4642.7	4404.9	4681.6	4219.2	3796.0
67.5°	4001.9	4337.8	4422.3	3980.4	4055.7	3994.0	3949.4	3996.2	4409.6	3688.8	3190.3
70°	3259.5	3765.0	3805.5	3183.6	3149.4	3108.0	3019.1	3276.3	3872.8	3023.2	2531.4
72.5°	2396.6	2928.0	3052.3	2335.0	2176.8	2185.4	2115.1	2469.1	3148.8	2245.8	1889.9
75°	1639.7	2120.2	2388.1	1629.3	1439.5	1443.0	1434.1	1749.5	2508.0	1562.2	1414.2
77.5°	1197.8	1514.8	1801.0	1095.4	1063.4	1043.8	1039.1	1224.1	1922.8	1134.3	1098.2
80°	961.3	1119.1	1209.9	759.1	816.4	814.8	788.5	841.7	1255.7	829.7	821.4
82.5°	666.8	860.0	980.2	595.0	551.0	541.8	548.2	626.9	887.6	567.1	539.3
85°	351.7	571.2	970.7	527.3	327.1	261.0	324.5	513.4	768.9	300.5	263.2
87.5°	44.9	165.1	642.7	210.3	129.1	69.6	154.0	289.1	493.8	61.4	53.5
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°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	2109.1	2067.1	2012.0	1961.1	1908.3	1855.8	1787.1	1744.1	1714.4	1708.7	1696.0
5°	2057.9	1918.1	1812.4	1721.0	1638.1	1521.1	1456.3	1402.5	1373.7	1370.9	1363.9
7.5°	1821.6	1628.7	1486.0	1356.6	1239.3	1144.7	1040.3	991.6	971.7	976.4	981.2
10°	1575.8	1360.1	1196.3	1064.1	960.6	880.9	797.1	740.5	701.2	693.3	691.8
12.5°	1396.2	1159.6	1000.5	907.2	827.1	752.2	663.3	596.6	545.6	528.2	516.5
15°	1320.3	1061.5	894.8	794.2	706.0	610.8	528.2	458.3	411.5	396.3	387.8
17.5°	1336.4	1034.3	822.1	693.3	580.4	481.1	377.0	317.3	289.1	281.8	281.8
20°	1421.2	1029.3	762.0	600.3	459.6	344.5	259.1	224.9	215.7	214.8	217.3
22.5°	1540.1	1047.0	717.1	519.7	357.1	251.5	201.8	189.2	185.0	186.0	188.8
25°	1717.2	1106.8	684.5	447.9	280.2	205.9	180.0	172.4	170.5	173.0	176.5
27.5°	1927.2	1166.5	664.2	393.8	236.6	188.2	171.1	163.2	164.5	167.6	170.8
30°	2111.7	1215.6	632.3	355.2	223.0	189.2	171.1	160.4	159.1	159.7	160.7
32.5°	2277.1	1248.8	595.0	318.5	192.3	168.0	159.7	158.2	151.2	148.7	149.0
35°	2419.7	1248.8	572.5	297.0	172.4	149.0	135.7	127.8	124.3	124.6	128.1
37.5°	2557.3	1223.8	561.4	285.0	161.6	141.7	130.0	123.0	118.3	117.3	118.0
40°	2678.8	1187.4	548.8	279.9	153.4	137.3	126.2	120.5	115.5	113.9	114.2
42.5°	2776.2	1158.0	534.9	273.3	148.3	134.1	123.7	118.6	112.9	111.3	111.0
45°	2881.5	1148.2	516.5	260.0	150.9	134.4	123.0	117.7	112.0	110.1	109.4
47.5°	3020.4	1178.9	497.5	244.2	156.3	136.0	124.0	117.7	111.7	110.1	109.4
50°	3195.3	1251.0	473.5	221.1	150.9	140.4	123.7	116.7	111.7	110.1	108.8
52.5°	3419.9	1348.4	441.9	194.5	147.7	151.2	123.0	114.8	110.1	107.9	105.6
55°	3692.9	1428.1	404.2	172.7	140.4	148.3	122.1	112.6	107.5	104.4	102.5
57.5°	3892.8	1456.9	355.8	158.5	130.3	143.6	120.8	109.8	104.4	101.9	99.3
60°	3853.2	1401.2	315.0	149.6	124.3	129.7	119.9	107.2	101.5	99.6	97.4
62.5°	3536.6	1255.7	288.8	145.5	120.5	118.3	120.8	104.7	99.0	97.1	96.5
65°	3061.8	1041.0	278.3	144.6	117.3	111.7	112.3	101.9	96.2	94.6	93.9
67.5°	2525.7	840.1	269.2	147.7	113.2	106.9	103.7	98.1	93.3	91.7	90.5
70°	1991.8	698.7	265.1	145.8	108.2	102.2	98.7	93.9	89.8	88.2	87.3
72.5°	1604.0	590.2	262.8	143.9	101.5	95.8	92.7	88.6	84.1	83.5	82.6
75°	1357.3	464.0	240.7	137.9	93.9	88.2	86.0	82.2	77.8	77.8	77.2
77.5°	1047.0	335.6	200.2	122.1	86.0	79.7	77.8	75.0	69.9	70.9	70.5
80°	773.4	218.9	156.6	101.2	76.2	70.2	69.3	66.4	61.0	62.3	62.3
82.5°	529.8	143.6	112.6	82.9	65.2	59.5	59.5	56.6	50.6	51.2	53.1
85°	266.0	98.7	84.1	64.2	50.6	47.8	47.8	45.5	39.5	39.9	42.4
87.5°	81.0	59.5	55.7	45.9	36.4	35.7	34.2	32.6	28.8	28.5	30.0
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1676.7	1658.7	1636.9	1588.8	1572.7	1571.7	1586.3	1571.1	1600.2	1587.9	1601.5
5°	1352.2	1334.5	1310.1	1248.8	1211.4	1186.1	1174.1	1138.7	1164.3	1145.7	1161.2
7.5°	994.5	998.6	982.4	946.4	865.1	824.3	800.3	778.7	797.4	795.5	825.2
10°	699.0	710.1	698.7	662.3	596.6	574.1	578.5	587.1	611.4	624.1	669.9
12.5°	503.2	502.6	495.3	462.8	419.4	422.0	440.0	454.8	477.3	490.6	537.4
15°	375.8	370.1	366.9	340.3	315.7	321.0	329.9	331.5	345.7	353.6	391.6
17.5°	284.0	286.9	290.4	271.4	252.7	249.2	242.3	233.7	237.9	239.4	258.4
20°	225.5	236.9	245.5	232.2	213.2	203.1	194.2	188.5	188.5	188.2	193.6
22.5°	197.1	205.3	214.5	205.3	188.2	179.3	174.3	169.9	169.2	169.2	174.3
25°	181.6	187.6	196.4	190.1	177.4	170.8	166.1	160.4	158.2	157.5	161.0
27.5°	174.0	176.5	180.9	175.2	164.5	161.3	160.1	155.0	152.1	150.6	154.0
30°	161.0	160.4	160.7	155.0	146.4	146.1	148.3	149.3	148.3	148.0	153.4
32.5°	149.0	147.7	147.4	142.3	134.4	132.5	134.4	136.3	138.5	141.7	148.0
35°	133.8	137.0	138.9	134.4	124.9	119.2	117.0	113.6	111.7	111.7	118.9
37.5°	121.8	129.1	131.9	127.8	117.3	109.4	105.6	105.0	105.3	106.6	113.6
40°	117.7	123.0	125.6	121.5	111.0	103.7	101.5	100.9	101.5	103.4	110.4
42.5°	115.1	118.9	118.6	113.6	105.0	100.0	98.7	98.1	98.7	100.6	108.2
45°	112.9	115.5	112.9	106.9	99.0	96.5	96.8	96.5	97.1	99.0	106.3
47.5°	111.0	112.0	108.8	102.8	94.6	93.9	95.2	96.2	96.8	98.4	106.0
50°	108.2	108.2	105.3	99.0	90.8	91.1	92.7	94.9	95.2	97.1	103.1
52.5°	104.7	104.4	102.5	96.5	87.6	88.6	88.6	91.1	91.7	93.9	100.3
55°	101.9	101.2	100.3	94.6	84.8	86.4	85.4	86.4	87.9	90.1	97.1
57.5°	99.3	98.1	98.1	93.0	82.6	83.2	81.0	82.2	84.1	86.0	93.3
60°	96.8	95.5	96.2	90.8	79.1	78.4	77.5	80.0	80.7	82.9	90.1
62.5°	93.9	93.0	93.3	88.2	76.5	75.0	75.0	77.2	77.5	80.7	87.6
65°	91.7	90.5	90.1	85.7	73.7	71.8	72.8	73.7	74.3	77.5	84.1
67.5°	89.5	87.0	87.0	83.5	70.5	68.6	70.5	70.2	71.2	74.0	79.4
70°	86.7	83.2	83.5	81.9	67.4	65.2	66.7	66.4	67.1	69.0	74.3
72.5°	82.2	79.4	80.0	79.4	64.2	61.0	61.7	61.7	61.7	63.3	69.0
75°	76.5	74.3	76.2	77.8	60.4	56.0	56.6	56.6	55.7	56.6	63.6
77.5°	69.6	68.3	74.6	72.4	56.0	50.6	50.6	50.0	48.1	49.3	56.9
80°	62.0	61.0	69.0	60.7	50.9	44.0	43.3	41.8	39.9	40.8	48.4
82.5°	54.1	53.1	57.9	46.5	44.0	36.4	34.8	31.9	30.0	31.0	38.0
85°	44.3	44.3	44.6	35.1	33.5	27.8	25.9	22.1	19.9	20.6	27.2
87.5°	31.6	32.6	30.0	24.0	19.9	15.5	14.2	12.0	10.1	11.7	14.2
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°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1671.0	1705.8	1745.4	1796.0	1839.3	1910.5	1978.8	2019.9
5°	1249.4	1307.3	1379.4	1472.1	1558.4	1688.1	1816.9	1899.4
7.5°	894.2	956.2	1034.0	1149.8	1271.9	1437.3	1607.5	1706.1
10°	739.8	803.4	868.9	947.0	1047.0	1226.9	1428.1	1539.5
12.5°	612.1	680.1	750.6	832.8	925.5	1086.2	1318.0	1446.1
15°	468.4	544.4	627.5	731.6	847.7	1033.4	1290.8	1430.0
17.5°	321.0	405.8	508.0	636.4	778.4	1016.3	1339.6	1499.9
20°	221.1	282.8	391.9	542.5	713.3	1014.1	1433.2	1634.0
22.5°	185.0	212.6	292.3	456.1	664.2	1041.3	1578.4	1822.2
25°	171.1	187.6	233.4	381.1	628.5	1103.9	1778.3	2065.8
27.5°	162.9	177.8	211.9	332.1	600.3	1176.7	1972.8	2301.8
30°	166.1	181.2	205.9	307.1	562.1	1237.4	2145.5	2485.8
32.5°	149.6	156.3	176.5	285.0	534.6	1288.3	2296.7	2638.3
35°	127.5	139.2	157.5	274.6	535.2	1322.5	2461.5	2833.1
37.5°	121.5	133.2	146.4	270.8	542.5	1358.8	2650.6	3061.5
40°	117.7	128.4	139.8	268.5	549.4	1392.1	2836.0	3287.4
42.5°	115.1	124.9	139.2	261.0	552.9	1421.8	2988.5	3479.4
45°	114.8	124.9	141.7	253.4	558.3	1453.7	3116.2	3621.4
47.5°	115.1	129.1	137.0	244.2	558.3	1507.2	3266.2	3748.2
50°	113.9	136.0	131.9	231.2	545.3	1608.4	3471.8	3918.1
52.5°	113.2	135.1	122.1	211.3	522.9	1769.1	3735.2	4152.1
55°	111.7	130.3	115.1	181.6	496.6	1944.3	4017.4	4428.9
57.5°	110.1	115.5	111.3	155.6	456.1	2067.7	4211.6	4644.9
60°	123.4	100.9	108.2	143.0	402.0	2101.5	4204.0	4731.0
62.5°	114.2	94.6	104.1	140.1	364.1	2006.6	4009.8	4684.5
65°	89.5	90.5	100.0	148.3	353.9	1755.2	3665.7	4469.7
67.5°	81.9	86.4	95.8	158.8	354.9	1405.3	3151.3	4001.9
70°	77.2	81.9	91.1	164.2	357.4	1047.6	2491.5	3259.5
72.5°	71.8	75.9	85.7	165.1	341.0	761.0	1920.3	2396.6
75°	65.5	69.3	78.1	143.9	282.5	527.9	1468.9	1639.7
77.5°	58.2	61.0	68.6	111.0	209.7	337.8	1102.6	1197.8
80°	49.7	51.2	57.6	81.3	143.6	211.3	872.4	961.3
82.5°	39.9	40.5	44.6	61.0	93.3	135.7	584.2	666.8
85°	28.2	28.2	30.7	44.3	63.6	86.0	317.3	351.7
87.5°	13.3	13.6	13.6	24.4	33.2	43.7	73.1	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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