

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: P193850

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193850  
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-SLR-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT 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

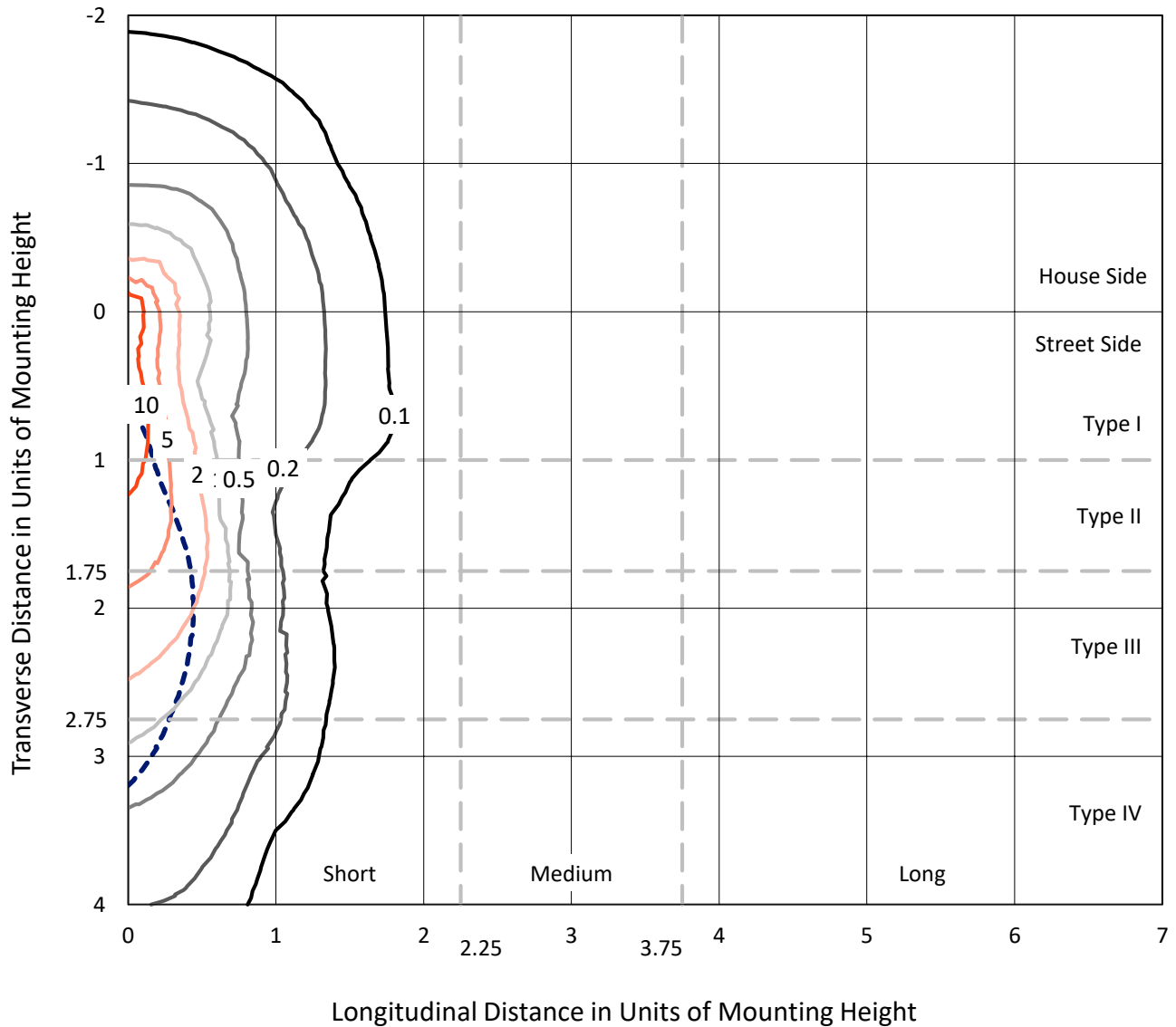
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

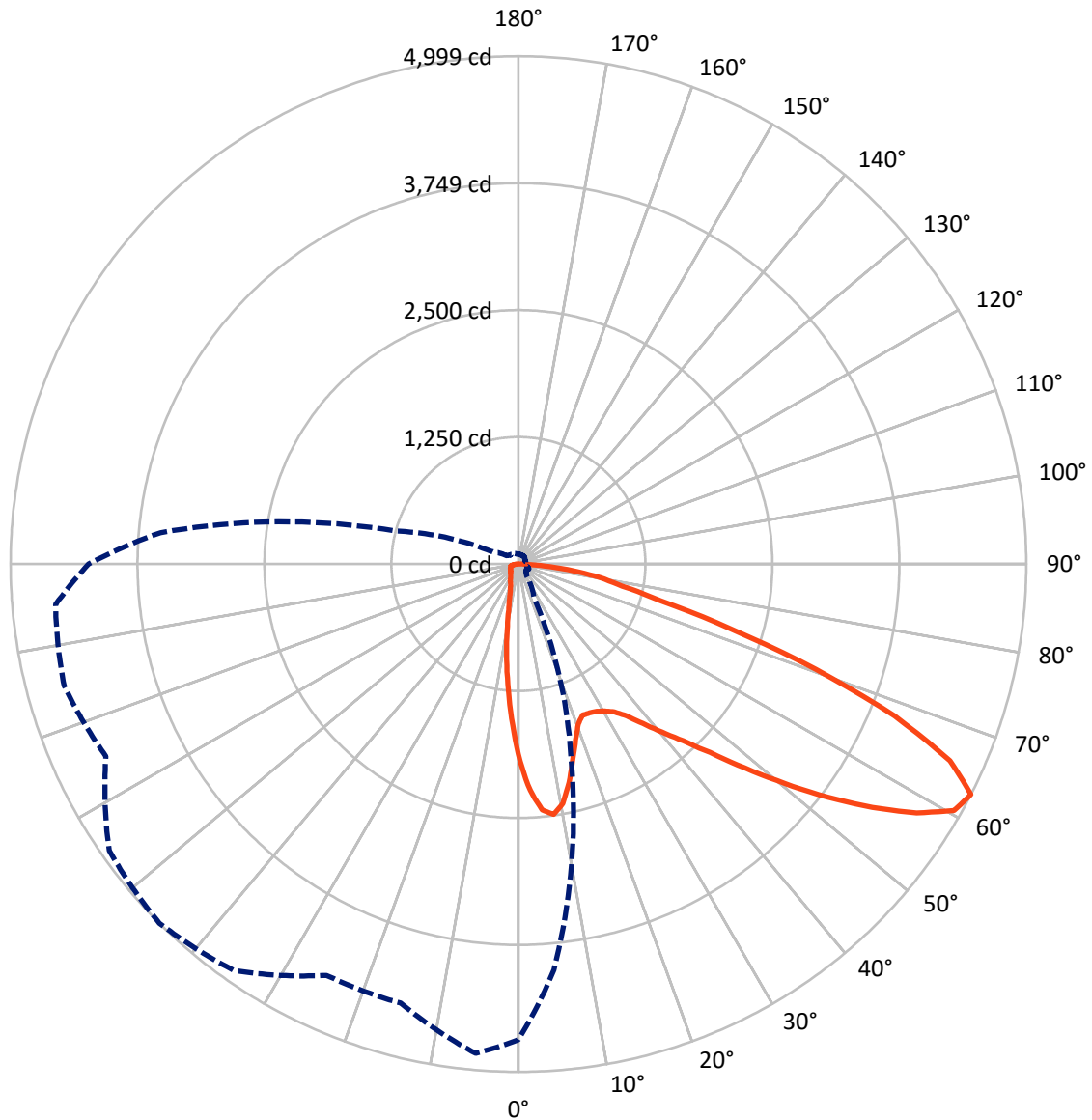
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-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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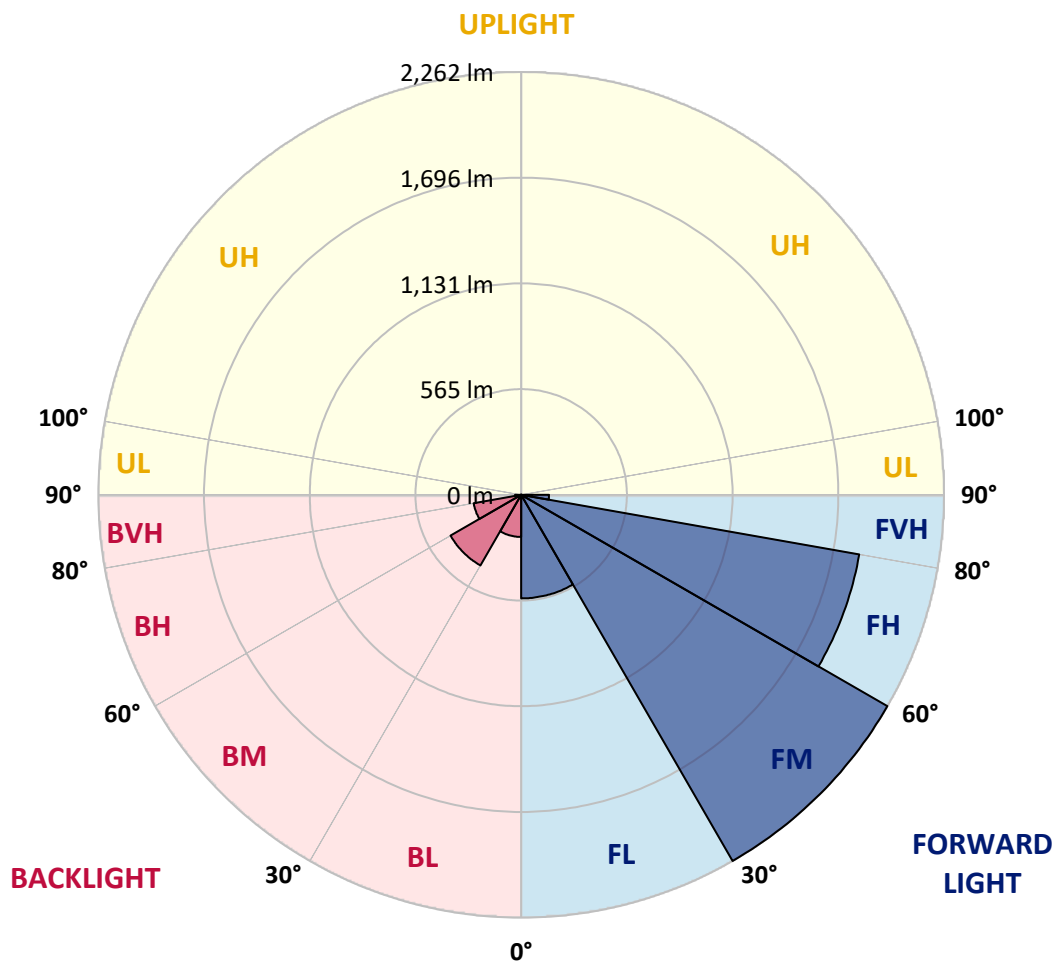
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-8030-600

**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	1978.8	1910.5	1839.3	1796.0	1745.4	1705.8	1671.0	1601.5	1587.9	1600.2
5°	1899.4	1816.9	1688.1	1558.4	1472.1	1379.4	1307.3	1249.4	1161.2	1145.7	1164.3
7.5°	1706.1	1607.5	1437.3	1271.9	1149.8	1034.0	956.2	894.2	825.2	795.5	797.4
10°	1539.5	1428.1	1226.9	1047.0	947.0	868.9	803.4	739.8	669.9	624.1	611.4
12.5°	1446.1	1318.0	1086.2	925.5	832.8	750.6	680.1	612.1	537.4	490.6	477.3
15°	1430.0	1290.8	1033.4	847.7	731.6	627.5	544.4	468.4	391.6	353.6	345.7
17.5°	1499.9	1339.6	1016.3	778.4	636.4	508.0	405.8	321.0	258.4	239.4	237.9
20°	1634.0	1433.2	1014.1	713.3	542.5	391.9	282.8	221.1	193.6	188.2	188.5
22.5°	1822.2	1578.4	1041.3	664.2	456.1	292.3	212.6	185.0	174.3	169.2	169.2
25°	2065.8	1778.3	1103.9	628.5	381.1	233.4	187.6	171.1	161.0	157.5	158.2
27.5°	2301.8	1972.8	1176.7	600.3	332.1	211.9	177.8	162.9	154.0	150.6	152.1
30°	2485.8	2145.5	1237.4	562.1	307.1	205.9	181.2	166.1	153.4	148.0	148.3
32.5°	2638.3	2296.7	1288.3	534.6	285.0	176.5	156.3	149.6	148.0	141.7	138.5
35°	2833.1	2461.5	1322.5	535.2	274.6	157.5	139.2	127.5	118.9	111.7	111.7
37.5°	3061.5	2650.6	1358.8	542.5	270.8	146.4	133.2	121.5	113.6	106.6	105.3
40°	3287.4	2836.0	1392.1	549.4	268.5	139.8	128.4	117.7	110.4	103.4	101.5
42.5°	3479.4	2988.5	1421.8	552.9	261.0	139.2	124.9	115.1	108.2	100.6	98.7
45°	3621.4	3116.2	1453.7	558.3	253.4	141.7	124.9	114.8	106.3	99.0	97.1
47.5°	3748.2	3266.2	1507.2	558.3	244.2	137.0	129.1	115.1	106.0	98.4	96.8
50°	3918.1	3471.8	1608.4	545.3	231.2	131.9	136.0	113.9	103.1	97.1	95.2
52.5°	4152.1	3735.2	1769.1	522.9	211.3	122.1	135.1	113.2	100.3	93.9	91.7
55°	4428.9	4017.4	1944.3	496.6	181.6	115.1	130.3	111.7	97.1	90.1	87.9
57.5°	4644.9	4211.6	2067.7	456.1	155.6	111.3	115.5	110.1	93.3	86.0	84.1
60°	4731.0	4204.0	2101.5	402.0	143.0	108.2	100.9	123.4	90.1	82.9	80.7
62.5°	4684.5	4009.8	2006.6	364.1	140.1	104.1	94.6	114.2	87.6	80.7	77.5
65°	4469.7	3665.7	1755.2	353.9	148.3	100.0	90.5	89.5	84.1	77.5	74.3
67.5°	4001.9	3151.3	1405.3	354.9	158.8	95.8	86.4	81.9	79.4	74.0	71.2
70°	3259.5	2491.5	1047.6	357.4	164.2	91.1	81.9	77.2	74.3	69.0	67.1
72.5°	2396.6	1920.3	761.0	341.0	165.1	85.7	75.9	71.8	69.0	63.3	61.7
75°	1639.7	1468.9	527.9	282.5	143.9	78.1	69.3	65.5	63.6	56.6	55.7
77.5°	1197.8	1102.6	337.8	209.7	111.0	68.6	61.0	58.2	56.9	49.3	48.1
80°	961.3	872.4	211.3	143.6	81.3	57.6	51.2	49.7	48.4	40.8	39.9
82.5°	666.8	584.2	135.7	93.3	61.0	44.6	40.5	39.9	38.0	31.0	30.0
85°	351.7	317.3	86.0	63.6	44.3	30.7	28.2	28.2	27.2	20.6	19.9
87.5°	44.9	73.1	43.7	33.2	24.4	13.6	13.6	13.3	14.2	11.7	10.1
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°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1571.1	1586.3	1571.7	1572.7	1588.8	1636.9	1658.7	1676.7	1696.0	1708.7	1714.4
5°	1138.7	1174.1	1186.1	1211.4	1248.8	1310.1	1334.5	1352.2	1363.9	1370.9	1373.7
7.5°	778.7	800.3	824.3	865.1	946.4	982.4	998.6	994.5	981.2	976.4	971.7
10°	587.1	578.5	574.1	596.6	662.3	698.7	710.1	699.0	691.8	693.3	701.2
12.5°	454.8	440.0	422.0	419.4	462.8	495.3	502.6	503.2	516.5	528.2	545.6
15°	331.5	329.9	321.0	315.7	340.3	366.9	370.1	375.8	387.8	396.3	411.5
17.5°	233.7	242.3	249.2	252.7	271.4	290.4	286.9	284.0	281.8	281.8	289.1
20°	188.5	194.2	203.1	213.2	232.2	245.5	236.9	225.5	217.3	214.8	215.7
22.5°	169.9	174.3	179.3	188.2	205.3	214.5	205.3	197.1	188.8	186.0	185.0
25°	160.4	166.1	170.8	177.4	190.1	196.4	187.6	181.6	176.5	173.0	170.5
27.5°	155.0	160.1	161.3	164.5	175.2	180.9	176.5	174.0	170.8	167.6	164.5
30°	149.3	148.3	146.1	146.4	155.0	160.7	160.4	161.0	160.7	159.7	159.1
32.5°	136.3	134.4	132.5	134.4	142.3	147.4	147.7	149.0	149.0	148.7	151.2
35°	113.6	117.0	119.2	124.9	134.4	138.9	137.0	133.8	128.1	124.6	124.3
37.5°	105.0	105.6	109.4	117.3	127.8	131.9	129.1	121.8	118.0	117.3	118.3
40°	100.9	101.5	103.7	111.0	121.5	125.6	123.0	117.7	114.2	113.9	115.5
42.5°	98.1	98.7	100.0	105.0	113.6	118.6	118.9	115.1	111.0	111.3	112.9
45°	96.5	96.8	96.5	99.0	106.9	112.9	115.5	112.9	109.4	110.1	112.0
47.5°	96.2	95.2	93.9	94.6	102.8	108.8	112.0	111.0	109.4	110.1	111.7
50°	94.9	92.7	91.1	90.8	99.0	105.3	108.2	108.2	108.8	110.1	111.7
52.5°	91.1	88.6	88.6	87.6	96.5	102.5	104.4	104.7	105.6	107.9	110.1
55°	86.4	85.4	86.4	84.8	94.6	100.3	101.2	101.9	102.5	104.4	107.5
57.5°	82.2	81.0	83.2	82.6	93.0	98.1	98.1	99.3	99.3	101.9	104.4
60°	80.0	77.5	78.4	79.1	90.8	96.2	95.5	96.8	97.4	99.6	101.5
62.5°	77.2	75.0	75.0	76.5	88.2	93.3	93.0	93.9	96.5	97.1	99.0
65°	73.7	72.8	71.8	73.7	85.7	90.1	90.5	91.7	93.9	94.6	96.2
67.5°	70.2	70.5	68.6	70.5	83.5	87.0	87.0	89.5	90.5	91.7	93.3
70°	66.4	66.7	65.2	67.4	81.9	83.5	83.2	86.7	87.3	88.2	89.8
72.5°	61.7	61.7	61.0	64.2	79.4	80.0	79.4	82.2	82.6	83.5	84.1
75°	56.6	56.6	56.0	60.4	77.8	76.2	74.3	76.5	77.2	77.8	77.8
77.5°	50.0	50.6	50.6	56.0	72.4	74.6	68.3	69.6	70.5	70.9	69.9
80°	41.8	43.3	44.0	50.9	60.7	69.0	61.0	62.0	62.3	62.3	61.0
82.5°	31.9	34.8	36.4	44.0	46.5	57.9	53.1	54.1	53.1	51.2	50.6
85°	22.1	25.9	27.8	33.5	35.1	44.6	44.3	44.3	42.4	39.9	39.5
87.5°	12.0	14.2	15.5	19.9	24.0	30.0	32.6	31.6	30.0	28.5	28.8
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):**

	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°	1744.1	1787.1	1855.8	1908.3	1961.1	2012.0	2067.1	2109.1	2144.9	2158.8	2201.2
5°	1402.5	1456.3	1521.1	1638.1	1721.0	1812.4	1918.1	2057.9	2111.7	2186.0	2307.8
7.5°	991.6	1040.3	1144.7	1239.3	1356.6	1486.0	1628.7	1821.6	1892.1	2011.4	2209.7
10°	740.5	797.1	880.9	960.6	1064.1	1196.3	1360.1	1575.8	1661.6	1790.9	2019.3
12.5°	596.6	663.3	752.2	827.1	907.2	1000.5	1159.6	1396.2	1511.0	1624.2	1855.1
15°	458.3	528.2	610.8	706.0	794.2	894.8	1061.5	1320.3	1452.5	1570.5	1767.5
17.5°	317.3	377.0	481.1	580.4	693.3	822.1	1034.3	1336.4	1494.2	1630.2	1782.7
20°	224.9	259.1	344.5	459.6	600.3	762.0	1029.3	1421.2	1626.4	1781.7	1880.1
22.5°	189.2	201.8	251.5	357.1	519.7	717.1	1047.0	1540.1	1804.8	2003.2	2035.4
25°	172.4	180.0	205.9	280.2	447.9	684.5	1106.8	1717.2	2025.6	2224.6	2218.9
27.5°	163.2	171.1	188.2	236.6	393.8	664.2	1166.5	1927.2	2278.0	2465.0	2394.1
30°	160.4	171.1	189.2	223.0	355.2	632.3	1215.6	2111.7	2472.2	2627.2	2473.8
32.5°	158.2	159.7	168.0	192.3	318.5	595.0	1248.8	2277.1	2662.3	2781.6	2588.6
35°	127.8	135.7	149.0	172.4	297.0	572.5	1248.8	2419.7	2849.6	2937.5	2698.1
37.5°	123.0	130.0	141.7	161.6	285.0	561.4	1223.8	2557.3	3041.0	3114.3	2788.2
40°	120.5	126.2	137.3	153.4	279.9	548.8	1187.4	2678.8	3227.9	3291.5	2872.4
42.5°	118.6	123.7	134.1	148.3	273.3	534.9	1158.0	2776.2	3390.2	3442.7	2952.7
45°	117.7	123.0	134.4	150.9	260.0	516.5	1148.2	2881.5	3523.6	3568.9	3039.7
47.5°	117.7	124.0	136.0	156.3	244.2	497.5	1178.9	3020.4	3649.8	3672.0	3142.2
50°	116.7	123.7	140.4	150.9	221.1	473.5	1251.0	3195.3	3786.5	3789.0	3271.9
52.5°	114.8	123.0	151.2	147.7	194.5	441.9	1348.4	3419.9	3988.6	4003.8	3474.9
55°	112.6	122.1	148.3	140.4	172.7	404.2	1428.1	3692.9	4272.6	4314.7	3773.5
57.5°	109.8	120.8	143.6	130.3	158.5	355.8	1456.9	3892.8	4471.0	4576.6	4110.1
60°	107.2	119.9	129.7	124.3	149.6	315.0	1401.2	3853.2	4457.4	4685.1	4408.3
62.5°	104.7	120.8	118.3	120.5	145.5	288.8	1255.7	3536.6	4231.8	4573.1	4629.4
65°	101.9	112.3	111.7	117.3	144.6	278.3	1041.0	3061.8	3796.0	4219.2	4681.6
67.5°	98.1	103.7	106.9	113.2	147.7	269.2	840.1	2525.7	3190.3	3688.8	4409.6
70°	93.9	98.7	102.2	108.2	145.8	265.1	698.7	1991.8	2531.4	3023.2	3872.8
72.5°	88.6	92.7	95.8	101.5	143.9	262.8	590.2	1604.0	1889.9	2245.8	3148.8
75°	82.2	86.0	88.2	93.9	137.9	240.7	464.0	1357.3	1414.2	1562.2	2508.0
77.5°	75.0	77.8	79.7	86.0	122.1	200.2	335.6	1047.0	1098.2	1134.3	1922.8
80°	66.4	69.3	70.2	76.2	101.2	156.6	218.9	773.4	821.4	829.7	1255.7
82.5°	56.6	59.5	59.5	65.2	82.9	112.6	143.6	529.8	539.3	567.1	887.6
85°	45.5	47.8	47.8	50.6	64.2	84.1	98.7	266.0	263.2	300.5	768.9
87.5°	32.6	34.2	35.7	36.4	45.9	55.7	59.5	81.0	53.5	61.4	493.8
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°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	2233.1	2251.1	2232.8	2219.5	2162.3	2115.1	2052.2	2019.9
5°	2400.4	2446.3	2430.8	2375.1	2255.6	2121.1	1968.4	1899.4
7.5°	2380.2	2486.8	2489.3	2385.3	2209.1	2011.1	1804.2	1706.1
10°	2222.7	2359.0	2397.9	2297.0	2110.1	1888.7	1651.4	1539.5
12.5°	2046.8	2180.3	2210.0	2175.2	2019.0	1796.6	1555.9	1446.1
15°	1902.9	1962.7	1998.1	2028.5	1940.8	1759.9	1550.5	1430.0
17.5°	1815.3	1808.6	1818.8	1871.6	1886.4	1802.0	1632.8	1499.9
20°	1783.6	1682.1	1679.6	1752.3	1860.8	1902.3	1793.4	1634.0
22.5°	1801.0	1636.6	1615.7	1702.0	1874.4	2046.8	2004.1	1822.2
25°	1861.1	1640.4	1623.6	1707.1	1923.8	2200.9	2231.5	2065.8
27.5°	1955.7	1664.4	1642.3	1728.0	1989.2	2330.2	2455.5	2301.8
30°	2045.5	1706.1	1678.6	1769.1	2049.0	2381.5	2592.8	2485.8
32.5°	2154.7	1784.3	1735.9	1844.7	2123.0	2463.1	2715.2	2638.3
35°	2261.6	1895.6	1835.5	1961.4	2205.6	2564.6	2855.0	2833.1
37.5°	2378.9	2041.1	1991.5	2112.3	2318.5	2660.4	3033.4	3061.5
40°	2504.2	2234.1	2175.2	2332.4	2493.7	2780.6	3219.7	3287.4
42.5°	2630.4	2448.2	2378.0	2537.4	2686.4	2899.3	3379.1	3479.4
45°	2774.9	2680.7	2647.5	2819.9	2871.4	3012.2	3496.8	3621.4
47.5°	2943.2	2944.5	2997.9	3066.9	3058.0	3140.0	3615.1	3748.2
50°	3139.6	3273.8	3391.7	3437.6	3250.4	3277.2	3779.2	3918.1
52.5°	3375.6	3667.6	3813.7	3783.6	3457.5	3444.9	4039.2	4152.1
55°	3670.7	4084.4	4229.6	4208.1	3695.7	3673.3	4363.1	4428.9
57.5°	4012.3	4488.4	4621.9	4525.1	3981.6	3923.8	4631.0	4644.9
60°	4312.5	4808.5	4925.5	4818.3	4270.1	4190.4	4798.3	4731.0
62.5°	4479.5	4917.0	4999.2	4883.8	4467.8	4474.5	4835.0	4684.5
65°	4404.9	4642.7	4669.3	4659.8	4416.9	4639.2	4703.1	4469.7
67.5°	3996.2	3949.4	3994.0	4055.7	3980.4	4422.3	4337.8	4001.9
70°	3276.3	3019.1	3108.0	3149.4	3183.6	3805.5	3765.0	3259.5
72.5°	2469.1	2115.1	2185.4	2176.8	2335.0	3052.3	2928.0	2396.6
75°	1749.5	1434.1	1443.0	1439.5	1629.3	2388.1	2120.2	1639.7
77.5°	1224.1	1039.1	1043.8	1063.4	1095.4	1801.0	1514.8	1197.8
80°	841.7	788.5	814.8	816.4	759.1	1209.9	1119.1	961.3
82.5°	626.9	548.2	541.8	551.0	595.0	980.2	860.0	666.8
85°	513.4	324.5	261.0	327.1	527.3	970.7	571.2	351.7
87.5°	289.1	154.0	69.6	129.1	210.3	642.7	165.1	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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