

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: P191319

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191319  
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-SLR-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4527.6 lumens  
Efficiency: N/A  
Efficacy: 102.9 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): 44  
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

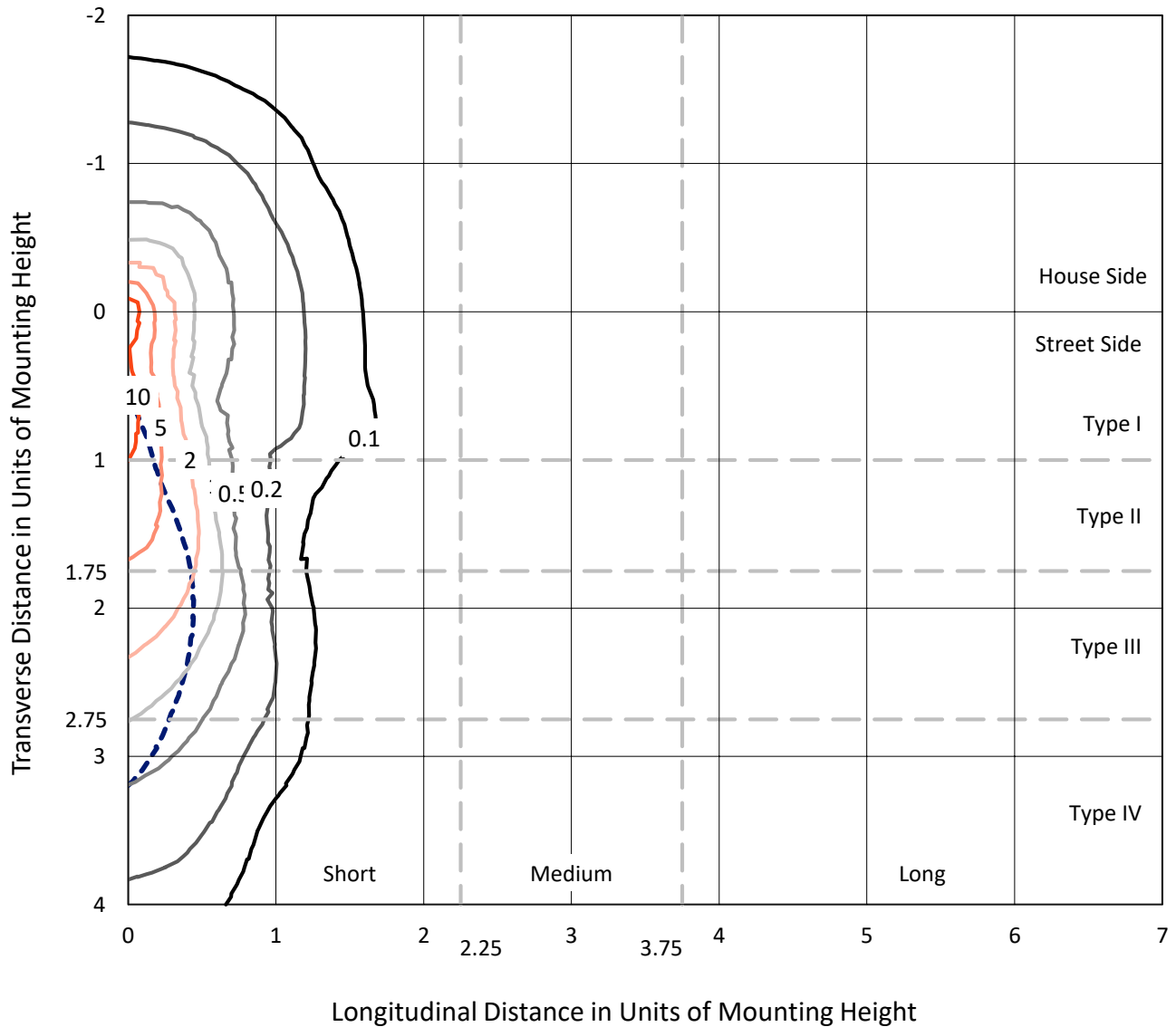


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

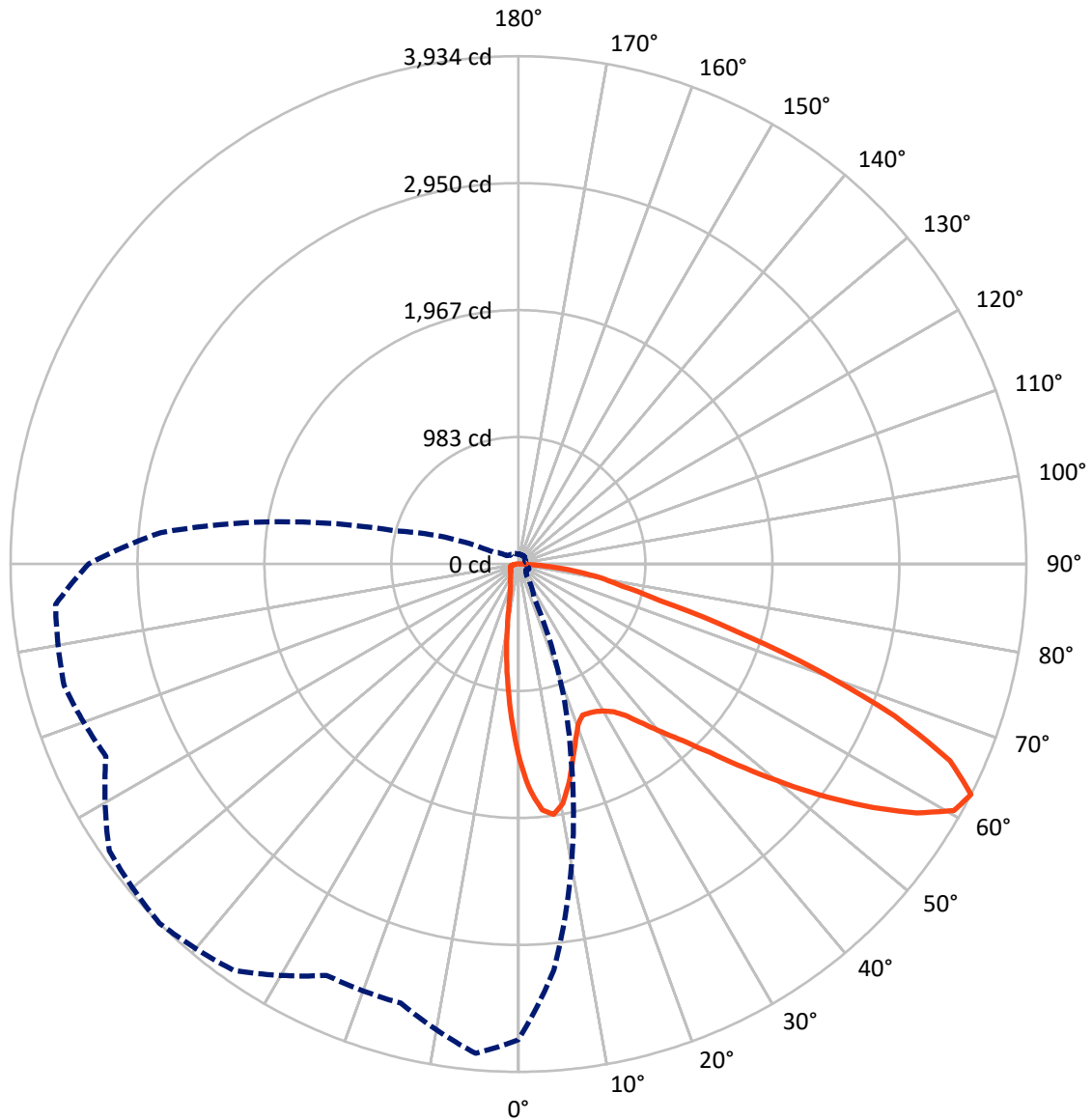


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc  
 Type IV - Short - Non-Cutoff

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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	749.3	0.0	749.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3778.3	0.0	3778.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4527.6	0.0	4527.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	2.5
10°-20°	204.2	4.5
20°-30°	297.7	6.6
30°-40°	458.5	10.1
40°-50°	674.8	14.9
50°-60°	989.8	21.9
60°-70°	1106.5	24.4
70°-80°	541.7	12.0
80°-90°	143.0	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°	4527.6	100.0
0°-180°	4527.6	100.0



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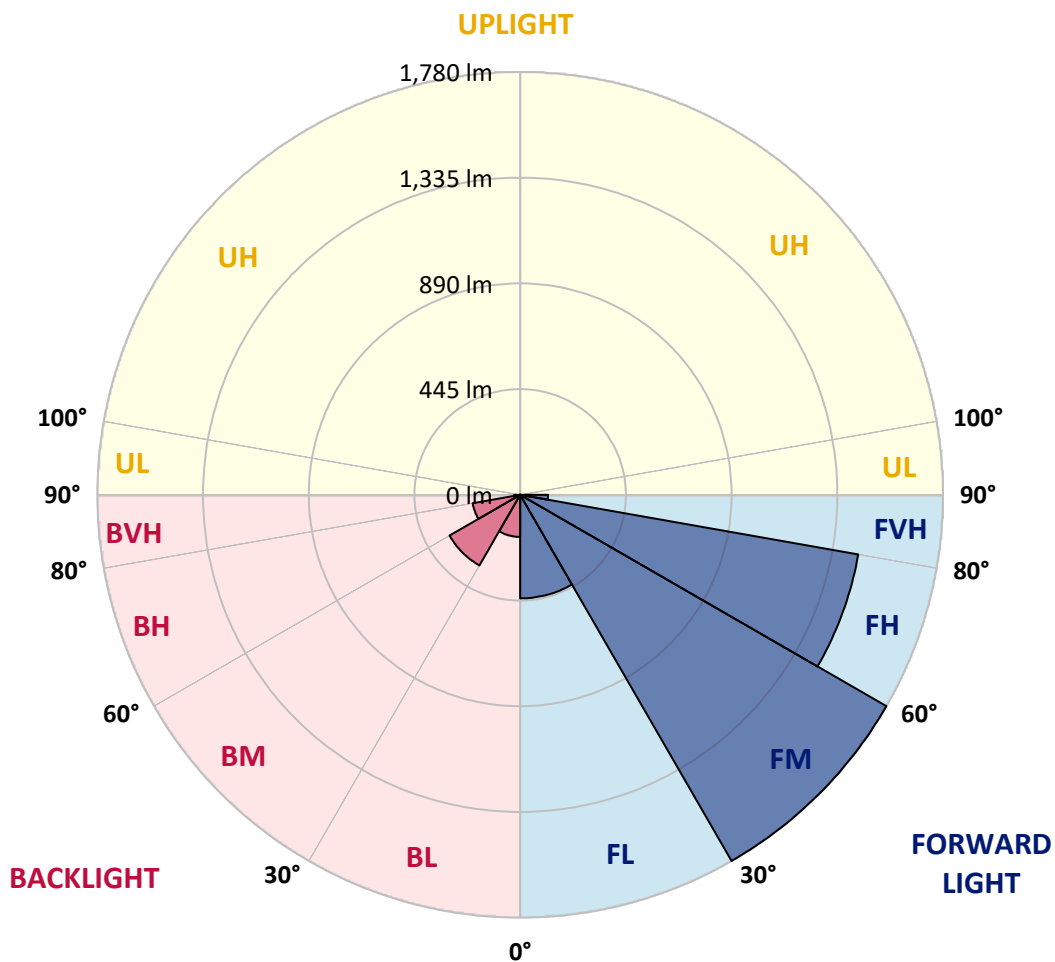
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.0	9.6			
FM (30°-60°)	1779.8	39.3			
FH (60°-80°)	1445.0	31.9			G1/1800
FVH (80°-90°)	117.5	2.6			G2/225
BL (0°-30°)	177.3	3.9	B1/500		
BM (30°-60°)	343.3	7.6	B1/1000		
BH (60°-80°)	203.1	4.5	B1/500		G1/500
BVH (80°-90°)	25.6	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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1589.4	1557.0	1503.3	1447.3	1413.2	1373.3	1342.2	1314.9	1260.1	1249.4	1259.2
5°	1494.5	1429.6	1328.3	1226.3	1158.3	1085.4	1028.7	983.1	913.7	901.4	916.2
7.5°	1342.5	1264.9	1131.0	1000.8	904.7	813.7	752.4	703.6	649.4	625.9	627.5
10°	1211.4	1123.7	965.5	823.8	745.1	683.7	632.2	582.2	527.1	491.0	481.1
12.5°	1137.9	1037.1	854.7	728.2	655.3	590.7	535.1	481.6	422.9	386.1	375.5
15°	1125.2	1015.7	813.1	667.1	575.7	493.8	428.3	368.6	308.1	278.2	272.0
17.5°	1180.2	1054.0	799.6	612.5	500.7	399.7	319.4	252.7	203.4	188.4	187.2
20°	1285.7	1127.7	797.9	561.2	426.9	308.4	222.5	174.0	152.3	148.1	148.3
22.5°	1433.9	1242.0	819.4	522.6	358.9	230.0	167.3	145.6	137.2	133.2	133.2
25°	1625.5	1399.3	868.6	494.5	299.9	183.7	147.6	134.6	126.6	124.0	124.5
27.5°	1811.1	1552.3	925.9	472.4	261.4	166.7	139.8	128.2	121.2	118.5	119.7
30°	1956.0	1688.2	973.6	442.2	241.6	162.0	142.6	130.6	120.7	116.5	116.7
32.5°	2076.0	1807.1	1013.7	420.6	224.2	138.9	123.0	117.7	116.5	111.5	109.0
35°	2229.3	1936.9	1040.6	421.1	216.0	124.0	109.6	100.4	93.6	87.9	87.9
37.5°	2408.9	2085.7	1069.2	426.9	213.1	115.2	104.8	95.5	89.3	83.9	82.9
40°	2586.6	2231.6	1095.4	432.3	211.3	110.0	101.1	92.6	86.8	81.4	79.9
42.5°	2737.7	2351.5	1118.7	435.1	205.3	109.6	98.3	90.6	85.1	79.2	77.6
45°	2849.5	2452.0	1143.9	439.3	199.4	111.5	98.3	90.3	83.6	77.9	76.4
47.5°	2949.3	2570.0	1185.9	439.3	192.1	107.8	101.6	90.6	83.4	77.4	76.2
50°	3083.0	2731.8	1265.6	429.1	182.0	103.8	107.0	89.6	81.1	76.4	74.9
52.5°	3267.1	2939.1	1392.0	411.4	166.2	96.1	106.3	89.1	78.9	74.0	72.2
55°	3484.9	3161.1	1529.9	390.8	142.9	90.6	102.5	87.9	76.4	70.9	69.2
57.5°	3654.9	3314.0	1627.0	358.9	122.4	87.6	90.8	86.6	73.4	67.7	66.2
60°	3722.6	3307.9	1653.6	316.3	112.5	85.1	79.4	97.1	70.9	65.2	63.4
62.5°	3686.0	3155.2	1578.9	286.4	110.3	81.8	74.4	89.8	68.9	63.4	61.0
65°	3517.0	2884.3	1381.1	278.5	116.7	78.7	71.2	70.5	66.2	61.0	58.5
67.5°	3148.9	2479.6	1105.8	279.3	124.9	75.4	67.9	64.4	62.5	58.2	56.0
70°	2564.7	1960.5	824.3	281.2	129.2	71.7	64.4	60.8	58.5	54.2	52.8
72.5°	1885.8	1511.0	598.8	268.3	129.9	67.4	59.7	56.5	54.2	49.8	48.5
75°	1290.2	1155.8	415.4	222.3	113.2	61.5	54.5	51.6	50.0	44.6	43.8
77.5°	942.5	867.7	265.8	165.0	87.4	54.0	48.1	45.8	44.8	38.9	37.8
80°	756.4	686.4	166.2	113.0	63.9	45.3	40.3	39.1	38.1	32.1	31.4
82.5°	524.7	459.7	106.8	73.4	48.1	35.1	31.8	31.4	29.9	24.3	23.6
85°	276.8	249.6	67.7	50.0	34.9	24.1	22.2	22.2	21.4	16.2	15.7
87.5°	35.3	57.5	34.4	26.1	19.1	10.7	10.7	10.4	11.2	9.2	8.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1236.2	1248.2	1236.7	1237.5	1250.1	1288.0	1305.2	1319.4	1334.5	1344.5	1349.0
5°	896.0	923.8	933.3	953.3	982.6	1030.9	1050.1	1064.0	1073.2	1078.7	1081.0
7.5°	612.7	629.7	648.6	680.7	744.7	773.0	785.7	782.5	772.0	768.3	764.6
10°	462.0	455.2	451.7	469.4	521.2	549.8	558.7	550.0	544.3	545.5	551.8
12.5°	357.9	346.2	332.0	330.0	364.2	389.7	395.5	396.0	406.4	415.6	429.3
15°	260.9	259.6	252.7	248.4	267.8	288.7	291.2	295.6	305.1	311.9	323.8
17.5°	183.9	190.7	196.1	198.9	213.6	228.5	225.8	223.5	221.8	221.8	227.5
20°	148.3	152.8	159.8	167.8	182.7	193.1	186.4	177.5	170.9	169.0	169.7
22.5°	133.7	137.2	141.2	148.1	161.5	168.8	161.5	155.1	148.6	146.4	145.6
25°	126.2	130.6	134.4	139.6	149.6	154.6	147.6	142.9	138.9	136.2	134.1
27.5°	121.9	125.9	126.9	129.4	137.9	142.4	138.9	136.9	134.4	132.0	129.4
30°	117.4	116.7	115.0	115.2	121.9	126.4	126.2	126.6	126.4	125.7	125.2
32.5°	107.3	105.8	104.2	105.8	112.0	116.0	116.2	117.2	117.2	117.0	119.0
35°	89.3	92.1	93.8	98.3	105.8	109.3	107.8	105.3	100.8	98.1	97.8
37.5°	82.7	83.2	86.1	92.4	100.6	103.8	101.6	95.9	92.9	92.4	93.1
40°	79.4	79.9	81.6	87.4	95.5	98.8	96.8	92.6	89.8	89.6	90.8
42.5°	77.1	77.6	78.7	82.7	89.3	93.3	93.6	90.6	87.4	87.6	88.9
45°	75.9	76.2	75.9	77.9	84.1	88.9	90.8	88.9	86.1	86.6	88.1
47.5°	75.7	74.9	74.0	74.4	80.9	85.6	88.1	87.4	86.1	86.6	87.9
50°	74.7	72.9	71.7	71.4	77.9	82.9	85.1	85.1	85.6	86.6	87.9
52.5°	71.7	69.7	69.7	68.9	75.9	80.6	82.1	82.3	83.2	84.9	86.6
55°	67.9	67.2	67.9	66.7	74.4	78.9	79.7	80.1	80.6	82.1	84.6
57.5°	64.8	63.7	65.5	65.0	73.1	77.1	77.1	78.2	78.2	80.1	82.1
60°	63.0	61.0	61.7	62.2	71.4	75.7	75.2	76.2	76.6	78.4	79.9
62.5°	60.8	59.0	59.0	60.3	69.5	73.4	73.1	74.0	75.9	76.4	77.9
65°	58.0	57.3	56.5	58.0	67.4	70.9	71.2	72.2	74.0	74.4	75.7
67.5°	55.2	55.5	54.0	55.5	65.7	68.4	68.4	70.5	71.2	72.2	73.4
70°	52.3	52.5	51.2	53.0	64.4	65.7	65.5	68.2	68.7	69.5	70.7
72.5°	48.5	48.5	48.1	50.5	62.5	63.0	62.5	64.8	65.0	65.7	66.2
75°	44.6	44.6	44.1	47.6	61.3	59.9	58.5	60.3	60.8	61.3	61.3
77.5°	39.3	39.8	39.8	44.1	57.0	58.7	53.8	54.7	55.5	55.8	55.0
80°	32.8	34.1	34.6	40.1	47.8	54.2	48.1	48.8	49.0	49.0	48.1
82.5°	25.2	27.4	28.6	34.6	36.6	45.5	41.8	42.6	41.8	40.3	39.8
85°	17.4	20.5	21.9	26.4	27.6	35.1	34.9	34.9	33.3	31.4	31.1
87.5°	9.4	11.2	12.2	15.7	18.9	23.6	25.7	24.9	23.6	22.4	22.6
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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1372.4	1406.3	1460.3	1501.5	1543.1	1583.2	1626.5	1659.5	1687.7	1698.6	1732.0
5°	1103.6	1145.9	1196.9	1289.0	1354.2	1426.1	1509.3	1619.2	1661.6	1720.1	1815.8
7.5°	780.3	818.6	900.7	975.2	1067.4	1169.2	1281.6	1433.4	1488.8	1582.7	1738.7
10°	582.7	627.2	693.2	755.9	837.3	941.3	1070.2	1239.9	1307.4	1409.2	1588.8
12.5°	469.4	521.9	591.9	650.8	713.8	787.3	912.4	1098.5	1189.0	1278.1	1459.8
15°	360.6	415.6	480.6	555.6	624.9	704.1	835.2	1038.8	1142.8	1235.7	1390.8
17.5°	249.6	296.7	378.6	456.7	545.5	646.8	813.9	1051.6	1175.8	1282.8	1402.8
20°	177.0	203.9	271.1	361.6	472.4	599.6	809.9	1118.3	1279.8	1402.0	1479.4
22.5°	148.8	158.8	197.8	281.0	408.9	564.3	823.8	1211.8	1420.2	1576.2	1601.6
25°	135.6	141.6	162.0	220.5	352.4	538.6	870.8	1351.2	1593.9	1750.5	1746.0
27.5°	128.4	134.6	148.1	186.2	309.9	522.6	917.9	1516.4	1792.5	1939.6	1883.9
30°	126.2	134.6	148.8	175.4	279.5	497.6	956.5	1661.6	1945.3	2067.3	1946.6
32.5°	124.5	125.7	132.2	151.3	250.6	468.2	982.6	1791.7	2094.9	2188.7	2036.9
35°	100.6	106.8	117.2	135.6	233.7	450.5	982.6	1904.0	2242.2	2311.5	2123.0
37.5°	96.8	102.3	111.5	127.2	224.2	441.8	962.9	2012.2	2392.8	2450.6	2193.9
40°	94.8	99.3	108.0	120.7	220.2	431.8	934.4	2107.8	2539.9	2589.9	2260.1
42.5°	93.3	97.3	105.6	116.7	215.0	420.8	911.1	2184.5	2667.5	2708.9	2323.3
45°	92.6	96.8	105.8	118.8	204.6	406.4	903.5	2267.4	2772.6	2808.2	2391.8
47.5°	92.6	97.6	107.0	123.0	192.1	391.5	927.6	2376.6	2871.9	2889.3	2472.5
50°	91.9	97.3	110.5	118.8	174.0	372.6	984.4	2514.2	2979.4	2981.4	2574.5
52.5°	90.3	96.8	119.0	116.2	153.0	347.7	1061.0	2691.0	3138.5	3150.4	2734.2
55°	88.6	96.1	116.7	110.5	135.8	318.0	1123.7	2905.8	3361.9	3395.1	2969.2
57.5°	86.3	95.0	113.0	102.5	124.7	280.0	1146.4	3063.0	3518.0	3601.2	3234.1
60°	84.4	94.3	102.1	97.8	117.7	247.9	1102.5	3031.9	3507.3	3686.5	3468.7
62.5°	82.3	95.0	93.1	94.8	114.5	227.2	988.1	2782.8	3329.9	3598.4	3642.7
65°	80.1	88.4	87.9	92.4	113.8	219.0	819.1	2409.3	2986.9	3319.9	3683.7
67.5°	77.1	81.6	84.1	89.1	116.2	211.9	661.0	1987.4	2510.3	2902.5	3469.7
70°	74.0	77.6	80.4	85.1	114.8	208.6	549.8	1567.3	1991.9	2378.9	3047.4
72.5°	69.7	72.9	75.4	79.9	113.2	206.8	464.4	1262.1	1487.1	1767.1	2477.7
75°	64.8	67.7	69.5	74.0	108.5	189.5	365.1	1068.0	1112.8	1229.3	1973.5
77.5°	59.0	61.3	62.7	67.7	96.1	157.5	264.0	823.8	864.1	892.5	1512.9
80°	52.3	54.5	55.2	59.9	79.7	123.2	172.3	608.6	646.4	652.8	988.1
82.5°	44.6	46.7	46.7	51.2	65.2	88.6	113.0	416.9	424.3	446.2	698.4
85°	35.8	37.5	37.5	39.8	50.5	66.2	77.6	209.3	207.0	236.4	605.1
87.5°	25.7	26.9	28.1	28.6	36.1	43.8	46.7	63.7	42.0	48.3	388.5
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1757.1	1771.3	1756.9	1746.5	1701.4	1664.3	1614.8	1589.4
5°	1888.8	1924.9	1912.7	1868.9	1774.8	1669.0	1548.8	1494.5
7.5°	1872.9	1956.7	1958.7	1876.8	1738.2	1582.4	1419.7	1342.5
10°	1748.9	1856.2	1886.8	1807.5	1660.4	1486.1	1299.5	1211.4
12.5°	1610.5	1715.6	1739.0	1711.6	1588.6	1413.7	1224.3	1137.9
15°	1497.3	1544.3	1572.2	1596.1	1527.2	1384.8	1220.1	1125.2
17.5°	1428.3	1423.1	1431.1	1472.6	1484.4	1417.9	1284.7	1180.2
20°	1403.5	1323.6	1321.6	1378.8	1464.3	1496.8	1411.2	1285.7
22.5°	1417.2	1287.8	1271.3	1339.2	1474.9	1610.5	1577.0	1433.9
25°	1464.5	1290.8	1277.6	1343.2	1513.8	1731.8	1755.9	1625.5
27.5°	1538.8	1309.7	1292.2	1359.7	1565.2	1833.5	1932.1	1811.1
30°	1609.5	1342.5	1320.8	1392.0	1612.3	1873.8	2040.2	1956.0
32.5°	1695.4	1404.0	1365.8	1451.5	1670.6	1938.1	2136.4	2076.0
35°	1779.5	1491.6	1444.3	1543.3	1735.5	2018.0	2246.5	2229.3
37.5°	1871.9	1606.0	1567.0	1662.1	1824.3	2093.4	2386.9	2408.9
40°	1970.4	1757.9	1711.6	1835.3	1962.2	2188.0	2533.4	2586.6
42.5°	2069.7	1926.4	1871.2	1996.6	2113.8	2281.3	2658.9	2737.7
45°	2183.5	2109.3	2083.1	2218.8	2259.4	2370.2	2751.4	2849.5
47.5°	2315.9	2316.9	2358.9	2413.2	2406.3	2470.7	2844.5	2949.3
50°	2470.4	2576.0	2668.8	2704.9	2557.6	2578.8	2973.7	3083.0
52.5°	2656.1	2885.8	3000.8	2977.2	2720.5	2710.6	3178.3	3267.1
55°	2888.3	3213.9	3328.1	3311.2	2908.0	2890.3	3433.1	3484.9
57.5°	3157.1	3531.7	3636.7	3560.6	3133.0	3087.5	3644.0	3654.9
60°	3393.3	3783.6	3875.7	3791.3	3360.0	3297.3	3775.6	3722.6
62.5°	3524.8	3868.9	3933.7	3842.8	3515.6	3520.8	3804.5	3686.0
65°	3466.0	3653.2	3674.0	3666.6	3475.5	3650.4	3700.7	3517.0
67.5°	3144.4	3107.6	3142.7	3191.2	3132.0	3479.7	3413.3	3148.9
70°	2577.9	2375.6	2445.6	2478.2	2505.0	2994.4	2962.5	2564.7
72.5°	1942.8	1664.3	1719.6	1712.8	1837.3	2401.8	2304.0	1885.8
75°	1376.6	1128.4	1135.4	1132.7	1282.1	1879.1	1668.3	1290.2
77.5°	963.2	817.6	821.3	836.8	861.9	1417.2	1191.9	942.5
80°	662.3	620.5	641.1	642.4	597.3	952.0	880.6	756.4
82.5°	493.3	431.3	426.4	433.5	468.2	771.3	676.7	524.7
85°	404.0	255.3	205.3	257.4	414.9	763.8	449.5	276.8
87.5°	227.5	121.2	54.7	101.6	165.5	505.7	129.9	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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