

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: P191269

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191269  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA 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: 3691.8 lumens  
Efficiency: N/A  
Efficacy: 108.6 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 - G1

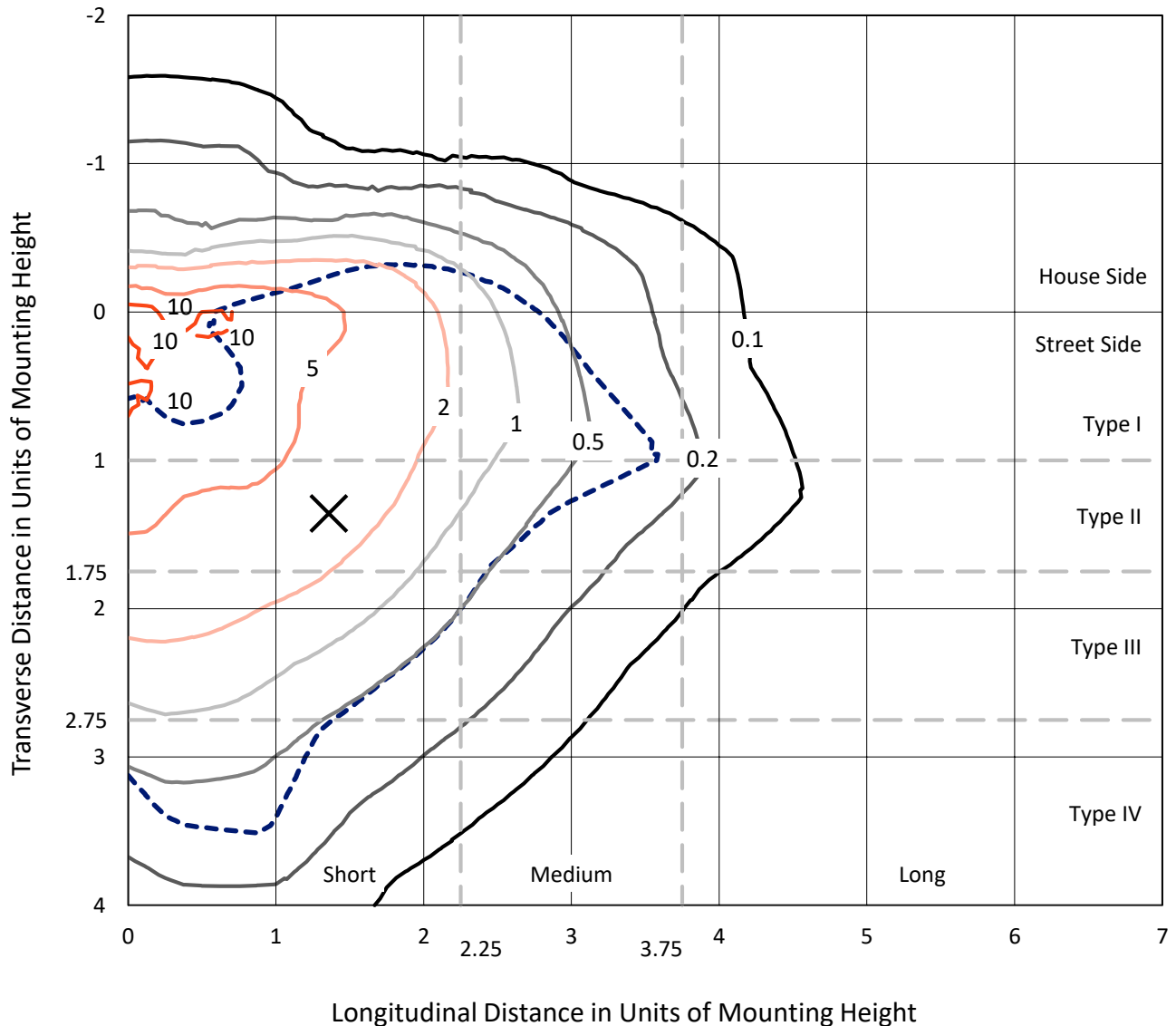
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

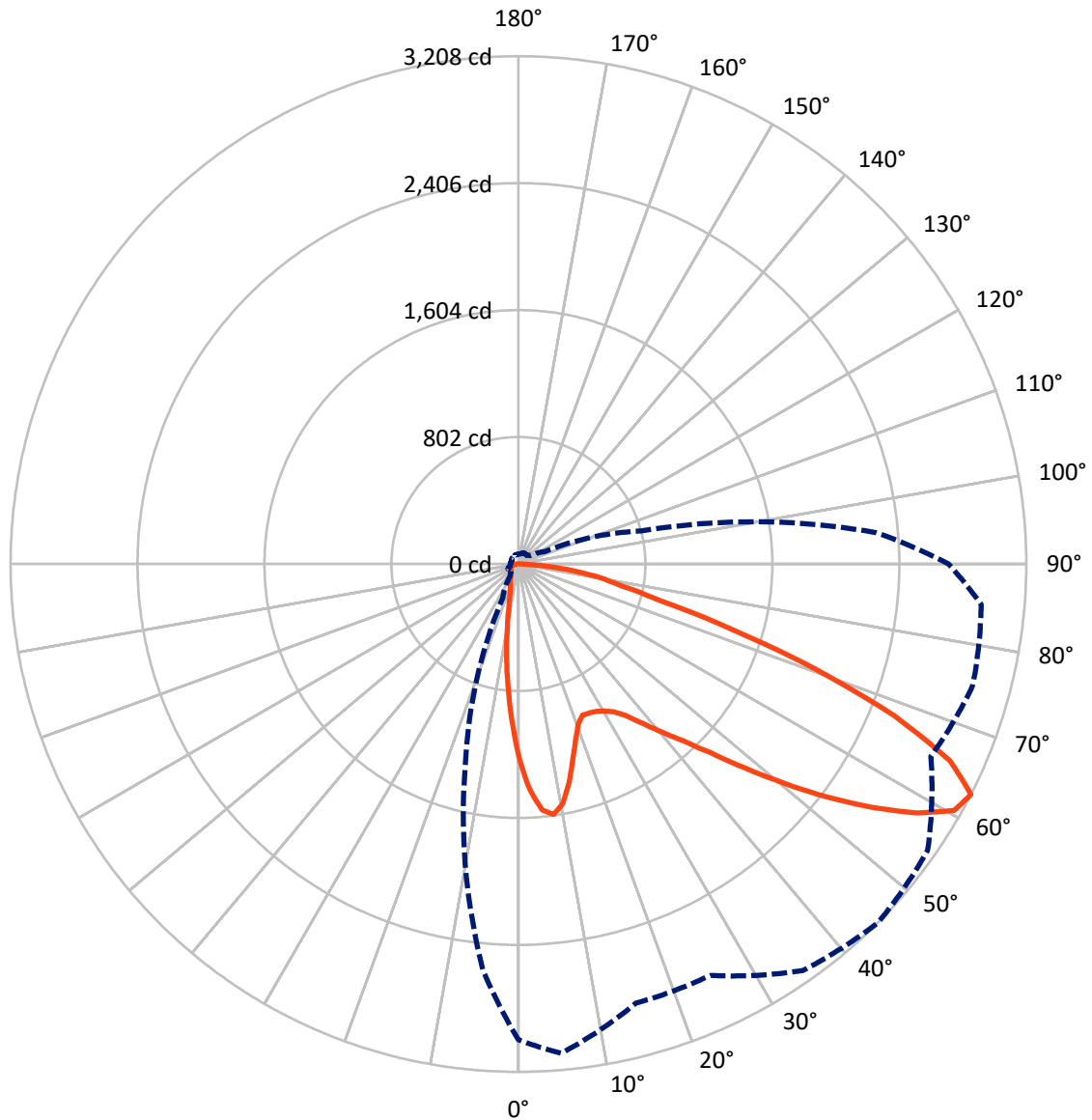
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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	610.9	0.0	610.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3080.9	0.0	3080.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3691.8	0.0	3691.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	2.5
10°-20°	166.5	4.5
20°-30°	242.8	6.6
30°-40°	373.9	10.1
40°-50°	550.2	14.9
50°-60°	807.1	21.9
60°-70°	902.2	24.4
70°-80°	441.7	12.0
80°-90°	116.6	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°	3691.8	100.0
0°-180°	3691.8	100.0



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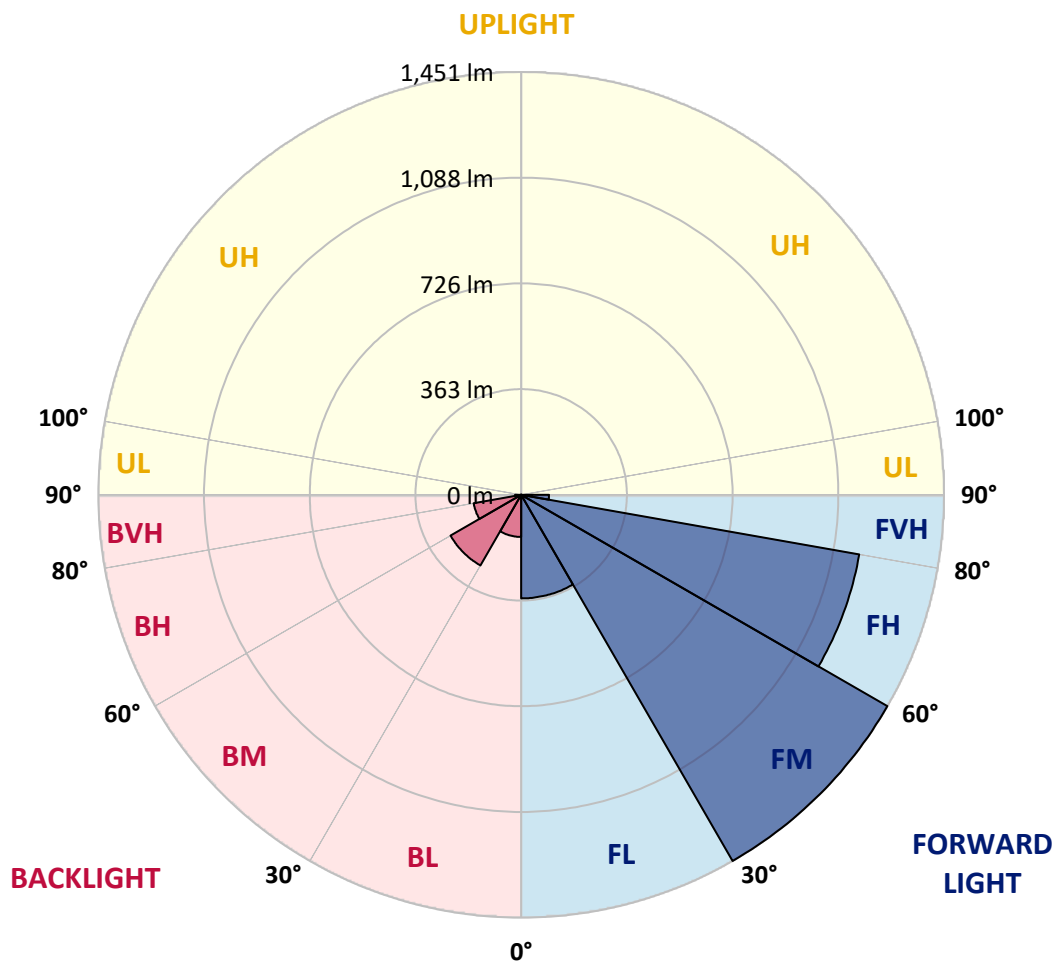
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.5	9.6			
FM	(30°-60°)	1451.3	39.3			
FH	(60°-80°)	1178.3	31.9			G1/1800
FVH	(80°-90°)	95.8	2.6			G1/100
BL	(0°-30°)	144.5	3.9	B1/500		
BM	(30°-60°)	279.9	7.6	B1/1000		
BH	(60°-80°)	165.6	4.5	B1/500		G1/500
BVH	(80°-90°)	20.8	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1296.0	1316.7	1357.0	1387.3	1424.0	1432.5	1444.4	1432.7	1412.3	1385.1	1376.2
5°	1218.6	1262.9	1360.9	1447.2	1523.9	1559.6	1569.6	1540.2	1480.7	1402.6	1354.9
7.5°	1094.7	1157.6	1290.4	1417.4	1530.4	1597.1	1595.6	1527.2	1417.8	1290.6	1214.0
10°	987.8	1059.6	1211.8	1353.9	1473.8	1538.5	1513.6	1426.1	1295.6	1149.1	1066.1
12.5°	927.8	998.3	1152.8	1295.4	1395.6	1418.0	1398.9	1313.3	1190.3	1042.1	969.5
15°	917.5	994.8	1129.2	1245.2	1301.5	1282.0	1259.3	1220.9	1134.0	1007.6	931.9
17.5°	962.4	1047.6	1156.1	1210.4	1200.8	1167.0	1160.4	1164.7	1143.8	1046.0	958.7
20°	1048.4	1150.7	1220.5	1193.9	1124.3	1077.7	1079.2	1144.4	1206.3	1143.1	1043.5
22.5°	1169.1	1285.8	1313.3	1202.7	1092.0	1036.7	1050.1	1155.5	1305.9	1285.2	1158.0
25°	1325.4	1431.8	1412.1	1234.3	1095.3	1041.7	1052.5	1194.1	1423.6	1427.3	1299.7
27.5°	1476.8	1575.4	1495.1	1276.3	1108.7	1053.6	1067.9	1254.9	1536.1	1581.6	1461.6
30°	1595.0	1663.5	1528.0	1314.7	1135.1	1077.1	1094.7	1312.4	1587.2	1685.6	1586.2
32.5°	1692.8	1742.1	1580.4	1362.2	1183.6	1113.8	1144.8	1382.4	1660.9	1784.7	1708.2
35°	1817.8	1831.8	1645.5	1415.2	1258.4	1177.7	1216.3	1451.1	1731.1	1884.8	1828.3
37.5°	1964.3	1946.3	1707.0	1487.6	1355.3	1277.8	1309.6	1526.3	1788.9	1998.2	1951.1
40°	2109.2	2065.7	1784.1	1600.0	1496.5	1395.6	1433.4	1606.7	1842.9	2111.9	2071.1
42.5°	2232.4	2168.0	1860.2	1723.6	1628.0	1525.7	1570.8	1687.7	1894.5	2208.9	2175.2
45°	2323.5	2243.5	1932.7	1842.3	1809.3	1698.6	1720.0	1780.4	1950.3	2289.9	2260.8
47.5°	2404.9	2319.4	2014.6	1962.0	1967.7	1923.6	1889.2	1888.4	2016.0	2356.0	2341.7
50°	2513.9	2424.8	2102.7	2085.5	2205.6	2176.2	2100.5	2014.4	2099.3	2431.0	2429.4
52.5°	2664.1	2591.6	2210.3	2218.4	2427.7	2446.9	2353.2	2165.8	2229.5	2568.8	2559.1
55°	2841.7	2799.4	2356.8	2371.2	2700.0	2713.8	2620.6	2355.1	2421.1	2768.4	2741.4
57.5°	2980.3	2971.4	2517.5	2554.7	2903.3	2965.4	2879.8	2574.4	2637.1	2936.4	2868.7
60°	3035.4	3078.7	2688.6	2739.8	3091.5	3160.3	3085.1	2767.0	2828.5	3006.0	2859.9
62.5°	3005.6	3102.2	2870.8	2866.6	3133.5	3207.6	3154.8	2874.1	2970.3	2934.1	2715.2
65°	2867.8	3017.6	2976.6	2833.9	2989.8	2995.9	2978.8	2826.2	3003.8	2707.0	2435.5
67.5°	2567.7	2783.1	2837.4	2553.9	2602.2	2562.6	2534.0	2564.0	2829.3	2366.7	2046.9
70°	2091.3	2415.7	2441.6	2042.6	2020.7	1994.1	1937.1	2102.1	2484.8	1939.7	1624.1
72.5°	1537.7	1878.6	1958.4	1498.1	1396.6	1402.2	1357.0	1584.1	2020.3	1440.9	1212.6
75°	1052.1	1360.3	1532.3	1045.4	923.6	925.9	920.1	1122.5	1609.1	1002.4	907.4
77.5°	768.5	971.9	1155.5	702.8	682.3	669.7	666.7	785.4	1233.7	727.7	704.6
80°	616.7	718.0	776.2	487.0	523.8	522.8	506.0	540.0	805.7	532.3	527.0
82.5°	427.8	551.8	628.9	381.8	353.5	347.6	351.7	402.2	569.5	363.9	346.1
85°	225.7	366.5	622.9	338.3	209.8	167.5	208.2	329.4	493.4	192.8	168.9
87.5°	28.8	106.0	412.4	134.9	82.8	44.6	98.8	185.5	316.8	39.4	34.3
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°	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1353.3	1326.3	1291.0	1258.2	1224.4	1190.7	1146.6	1119.0	1100.0	1096.3	1088.2
5°	1320.3	1230.6	1162.9	1104.2	1051.1	976.0	934.4	899.9	881.4	879.5	875.1
7.5°	1168.7	1044.9	953.4	870.4	795.1	734.5	667.5	636.3	623.5	626.5	629.5
10°	1011.1	872.7	767.5	682.7	616.3	565.2	511.4	475.1	449.9	444.9	443.9
12.5°	895.8	744.0	641.9	582.1	530.7	482.6	425.5	382.8	350.1	338.9	331.4
15°	847.1	681.1	574.1	509.6	453.0	391.9	338.9	294.1	264.0	254.3	248.8
17.5°	857.4	663.6	527.4	444.9	372.4	308.7	241.9	203.6	185.5	180.9	180.9
20°	911.9	660.4	488.9	385.1	294.9	221.0	166.2	144.3	138.4	137.8	139.4
22.5°	988.2	671.8	460.1	333.5	229.1	161.3	129.5	121.3	118.8	119.4	121.1
25°	1101.8	710.1	439.2	287.3	179.8	132.2	115.5	110.6	109.4	111.0	113.2
27.5°	1236.5	748.5	426.2	252.7	151.8	120.7	109.8	104.8	105.6	107.5	109.6
30°	1354.9	779.9	405.7	227.9	143.1	121.3	109.8	102.9	102.1	102.5	103.1
32.5°	1461.0	801.2	381.8	204.4	123.4	107.7	102.5	101.5	97.0	95.3	95.5
35°	1552.5	801.2	367.3	190.6	110.6	95.5	87.1	82.0	79.8	80.0	82.1
37.5°	1640.8	785.2	360.2	182.9	103.7	90.9	83.4	79.0	75.9	75.3	75.7
40°	1718.8	761.9	352.1	179.6	98.4	88.1	81.0	77.3	74.1	73.0	73.2
42.5°	1781.3	743.0	343.2	175.3	95.1	86.0	79.4	76.1	72.4	71.4	71.2
45°	1848.8	736.7	331.4	166.8	96.8	86.2	79.0	75.5	71.8	70.6	70.2
47.5°	1937.9	756.4	319.3	156.7	100.2	87.3	79.6	75.5	71.6	70.6	70.2
50°	2050.2	802.6	303.8	141.9	96.8	90.1	79.4	74.9	71.6	70.6	69.8
52.5°	2194.2	865.1	283.6	124.8	94.7	97.0	79.0	73.7	70.6	69.3	67.8
55°	2369.4	916.3	259.3	110.8	90.1	95.1	78.4	72.2	69.0	67.0	65.8
57.5°	2497.6	934.8	228.3	101.7	83.6	92.2	77.5	70.4	67.0	65.4	63.7
60°	2472.3	899.1	202.1	96.0	79.8	83.2	76.9	68.8	65.2	63.9	62.5
62.5°	2269.1	805.7	185.3	93.4	77.3	75.9	77.5	67.2	63.5	62.3	61.9
65°	1964.5	667.9	178.6	92.8	75.3	71.6	72.0	65.4	61.7	60.7	60.3
67.5°	1620.6	539.0	172.7	94.7	72.6	68.6	66.6	62.9	59.8	58.8	58.0
70°	1278.0	448.3	170.1	93.6	69.4	65.6	63.3	60.3	57.6	56.7	56.1
72.5°	1029.1	378.7	168.7	92.4	65.2	61.5	59.4	56.8	54.0	53.6	53.0
75°	870.8	297.7	154.5	88.5	60.3	56.7	55.2	52.8	49.9	49.9	49.5
77.5°	671.8	215.3	128.5	78.4	55.2	51.1	49.9	48.1	44.8	45.4	45.2
80°	496.2	140.5	100.5	65.0	48.9	45.0	44.4	42.7	39.2	40.0	40.0
82.5°	339.9	92.2	72.2	53.2	41.8	38.2	38.2	36.3	32.4	32.8	34.1
85°	170.6	63.3	54.0	41.2	32.4	30.7	30.7	29.3	25.4	25.6	27.2
87.5°	52.0	38.2	35.7	29.5	23.3	22.9	21.9	20.9	18.5	18.3	19.2
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1075.8	1064.3	1050.3	1019.4	1009.0	1008.4	1017.7	1008.0	1026.7	1018.8	1027.6
5°	867.6	856.2	840.6	801.2	777.2	761.1	753.3	730.6	747.1	735.1	745.0
7.5°	638.0	640.7	630.3	607.2	555.1	528.9	513.4	499.6	511.6	510.5	529.5
10°	448.5	455.6	448.3	424.9	382.8	368.4	371.2	376.7	392.3	400.4	429.8
12.5°	322.8	322.4	317.8	296.9	269.1	270.8	282.3	291.8	306.3	314.8	344.8
15°	241.1	237.4	235.4	218.4	202.5	206.0	211.6	212.7	221.8	226.9	251.2
17.5°	182.3	184.0	186.3	174.1	162.1	159.9	155.5	150.0	152.6	153.6	165.8
20°	144.7	152.0	157.5	148.9	136.8	130.3	124.6	120.9	120.9	120.7	124.2
22.5°	126.4	131.8	137.6	131.8	120.7	115.1	111.8	108.9	108.5	108.5	111.8
25°	116.5	120.3	126.0	121.9	113.9	109.6	106.6	102.9	101.5	101.1	103.3
27.5°	111.6	113.2	116.1	112.4	105.6	103.5	102.7	99.4	97.6	96.6	98.8
30°	103.3	102.9	103.1	99.4	94.0	93.8	95.1	95.7	95.1	94.9	98.4
32.5°	95.5	94.7	94.6	91.3	86.2	85.0	86.2	87.5	88.9	90.9	94.9
35°	85.8	87.9	89.1	86.2	80.2	76.5	75.1	72.8	71.6	71.6	76.3
37.5°	78.2	82.8	84.6	82.0	75.3	70.2	67.8	67.4	67.6	68.4	72.8
40°	75.5	79.0	80.6	77.9	71.2	66.6	65.2	64.8	65.2	66.4	70.8
42.5°	73.9	76.3	76.1	72.8	67.4	64.1	63.3	62.9	63.3	64.5	69.4
45°	72.4	74.1	72.4	68.6	63.5	61.9	62.1	61.9	62.3	63.5	68.2
47.5°	71.2	71.8	69.8	66.0	60.7	60.3	61.1	61.7	62.1	63.1	68.0
50°	69.4	69.4	67.6	63.5	58.2	58.4	59.4	60.9	61.1	62.3	66.2
52.5°	67.2	67.0	65.8	61.9	56.3	56.8	56.8	58.4	58.8	60.3	64.3
55°	65.4	65.0	64.3	60.7	54.4	55.4	54.8	55.4	56.5	57.8	62.3
57.5°	63.7	62.9	62.9	59.6	53.0	53.4	52.0	52.8	54.0	55.2	59.8
60°	62.1	61.3	61.7	58.2	50.7	50.3	49.7	51.4	51.8	53.2	57.8
62.5°	60.3	59.6	59.8	56.7	49.1	48.1	48.1	49.5	49.7	51.8	56.3
65°	58.8	58.0	57.8	55.0	47.3	46.0	46.6	47.3	47.7	49.7	54.0
67.5°	57.4	55.9	55.9	53.6	45.2	44.1	45.2	45.0	45.6	47.5	50.9
70°	55.6	53.4	53.6	52.6	43.3	41.8	42.9	42.7	43.1	44.2	47.7
72.5°	52.8	50.9	51.4	50.9	41.2	39.2	39.6	39.6	39.6	40.6	44.2
75°	49.1	47.7	48.9	49.9	38.8	35.9	36.3	36.3	35.7	36.3	40.8
77.5°	44.6	43.9	47.9	46.4	35.9	32.4	32.4	32.0	30.9	31.6	36.5
80°	39.8	39.2	44.2	39.0	32.6	28.2	27.8	26.8	25.6	26.2	31.1
82.5°	34.7	34.1	37.1	29.9	28.2	23.3	22.3	20.5	19.2	19.8	24.3
85°	28.4	28.4	28.6	22.5	21.5	17.9	16.7	14.2	12.8	13.2	17.5
87.5°	20.3	20.9	19.2	15.4	12.8	9.9	9.1	7.7	6.4	7.5	9.1
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1072.2	1094.5	1119.8	1152.4	1180.1	1225.8	1269.6	1296.0
5°	801.6	838.8	885.1	944.5	999.9	1083.1	1165.8	1218.6
7.5°	573.8	613.5	663.4	737.8	816.0	922.2	1031.3	1094.7
10°	474.6	515.5	557.5	607.6	671.8	787.3	916.3	987.8
12.5°	392.7	436.3	481.6	534.4	593.8	696.9	845.7	927.8
15°	300.5	349.2	402.6	469.4	543.9	663.0	828.2	917.5
17.5°	206.0	260.3	325.9	408.4	499.4	652.0	859.5	962.4
20°	141.9	181.5	251.4	348.0	457.7	650.6	919.5	1048.4
22.5°	118.8	136.4	187.5	292.7	426.2	668.1	1012.7	1169.1
25°	109.8	120.3	149.8	244.6	403.2	708.3	1141.0	1325.4
27.5°	104.5	114.1	136.0	213.1	385.1	754.9	1265.8	1476.8
30°	106.6	116.3	132.2	197.0	360.6	793.9	1376.6	1595.0
32.5°	96.0	100.2	113.2	182.9	343.0	826.5	1473.6	1692.8
35°	81.8	89.3	101.1	176.2	343.4	848.5	1579.3	1817.8
37.5°	77.9	85.4	94.0	173.7	348.0	871.9	1700.7	1964.3
40°	75.5	82.3	89.7	172.3	352.5	893.1	1819.6	2109.2
42.5°	73.9	80.2	89.3	167.5	354.8	912.3	1917.4	2232.4
45°	73.7	80.2	90.9	162.5	358.2	932.7	1999.5	2323.5
47.5°	73.9	82.8	87.9	156.7	358.2	967.0	2095.6	2404.9
50°	73.0	87.3	84.6	148.3	349.8	1032.0	2227.5	2513.9
52.5°	72.6	86.6	78.4	135.5	335.4	1135.1	2396.6	2664.1
55°	71.6	83.6	73.9	116.5	318.6	1247.5	2577.6	2841.7
57.5°	70.6	74.1	71.4	99.8	292.7	1326.7	2702.2	2980.3
60°	79.2	64.8	69.4	91.8	258.0	1348.4	2697.3	3035.4
62.5°	73.2	60.7	66.8	89.9	233.5	1287.5	2572.7	3005.6
65°	57.4	58.0	64.1	95.1	227.1	1126.2	2352.0	2867.8
67.5°	52.6	55.4	61.5	101.9	227.7	901.7	2022.0	2567.7
70°	49.5	52.6	58.4	105.4	229.3	672.2	1598.6	2091.3
72.5°	46.0	48.7	55.0	106.0	218.8	488.3	1232.0	1537.7
75°	42.0	44.4	50.1	92.4	181.3	338.7	942.4	1052.1
77.5°	37.3	39.2	44.1	71.2	134.5	216.8	707.5	768.5
80°	31.8	32.8	36.9	52.2	92.2	135.5	559.8	616.7
82.5°	25.6	26.0	28.6	39.2	59.8	87.1	374.8	427.8
85°	18.1	18.1	19.6	28.4	40.8	55.2	203.6	225.7
87.5°	8.5	8.7	8.7	15.7	21.3	28.0	46.9	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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