

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: P191309

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191309  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA 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: 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

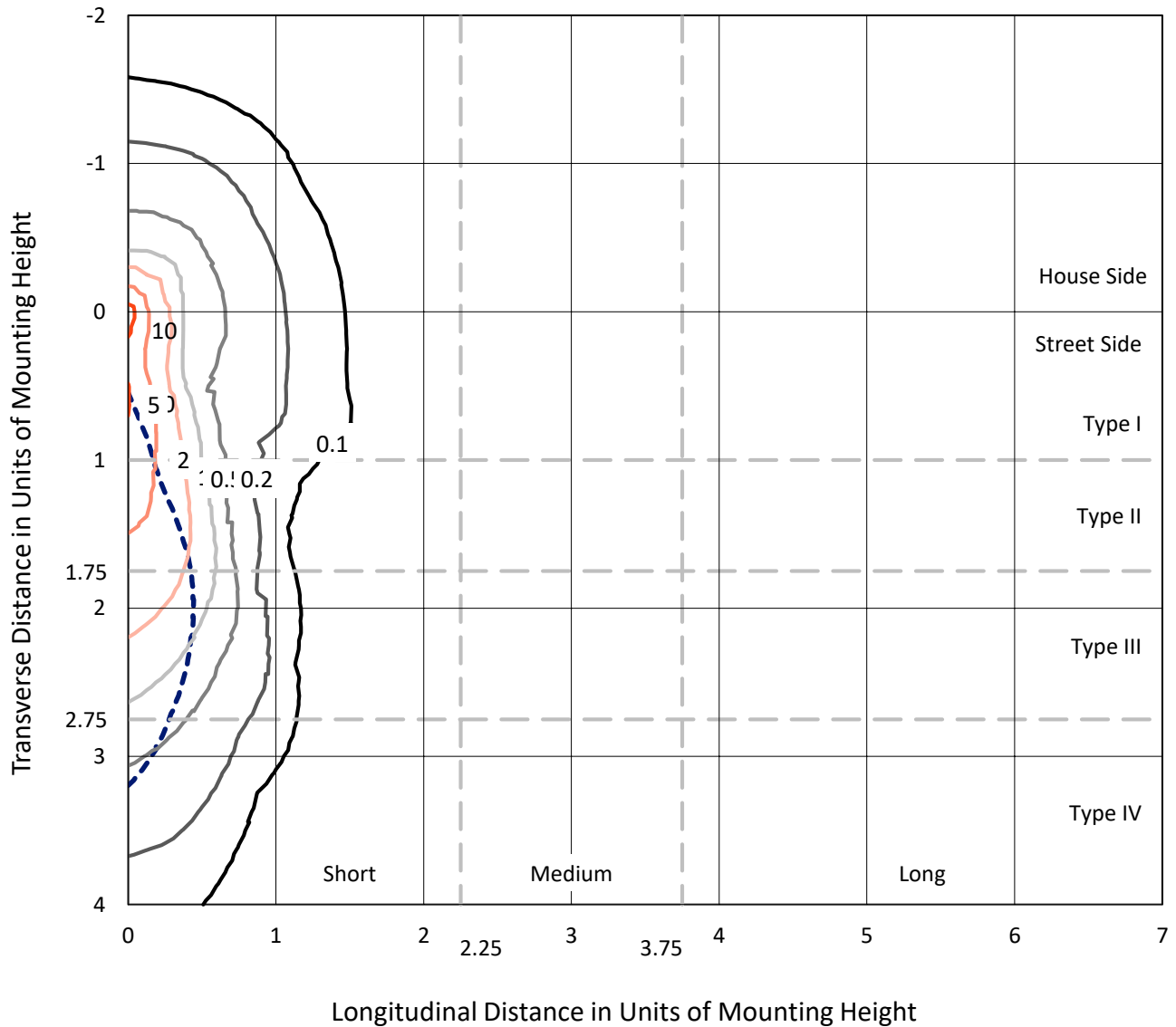


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

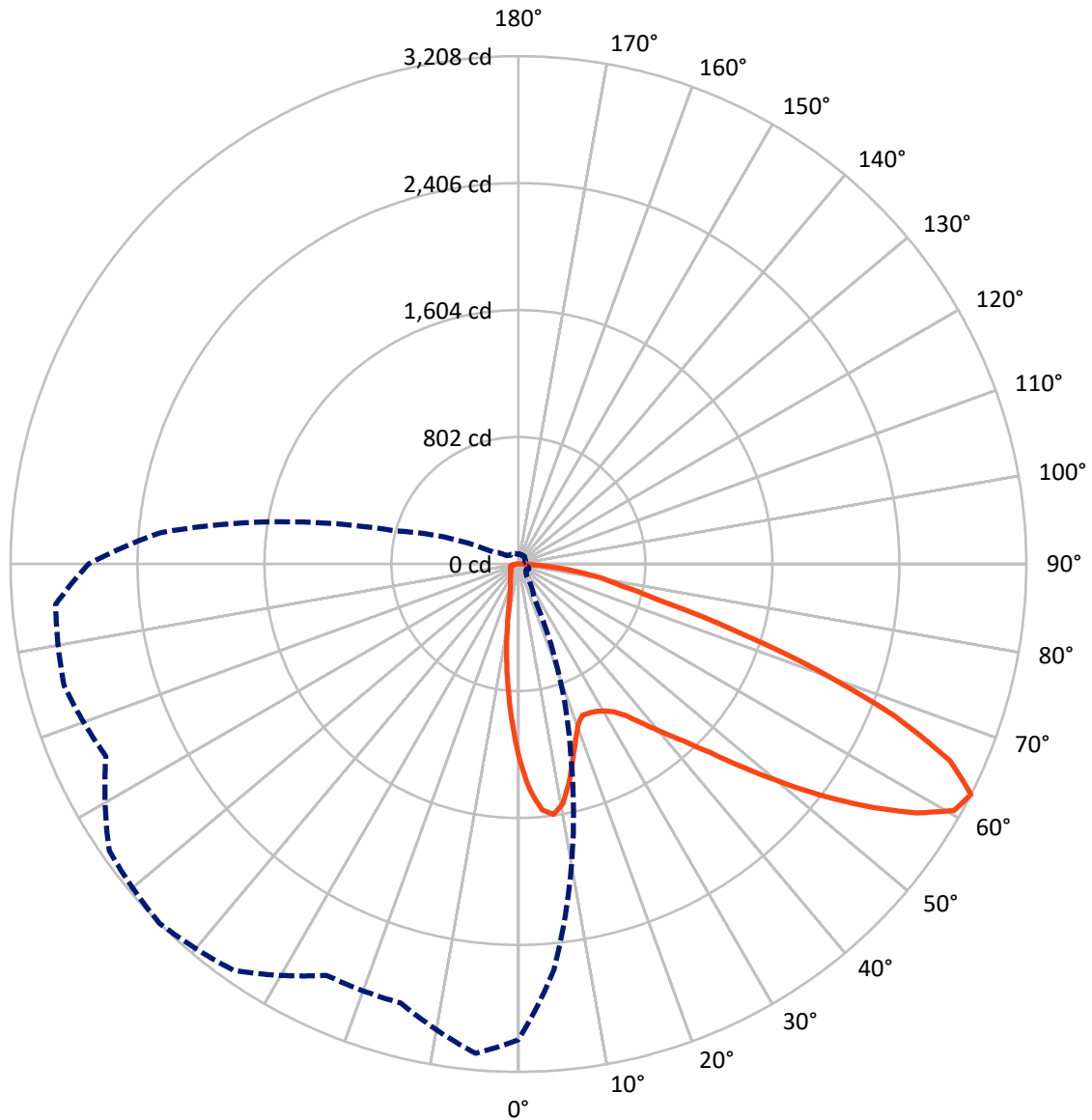


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc  
 Type IV - Short - Non-Cutoff

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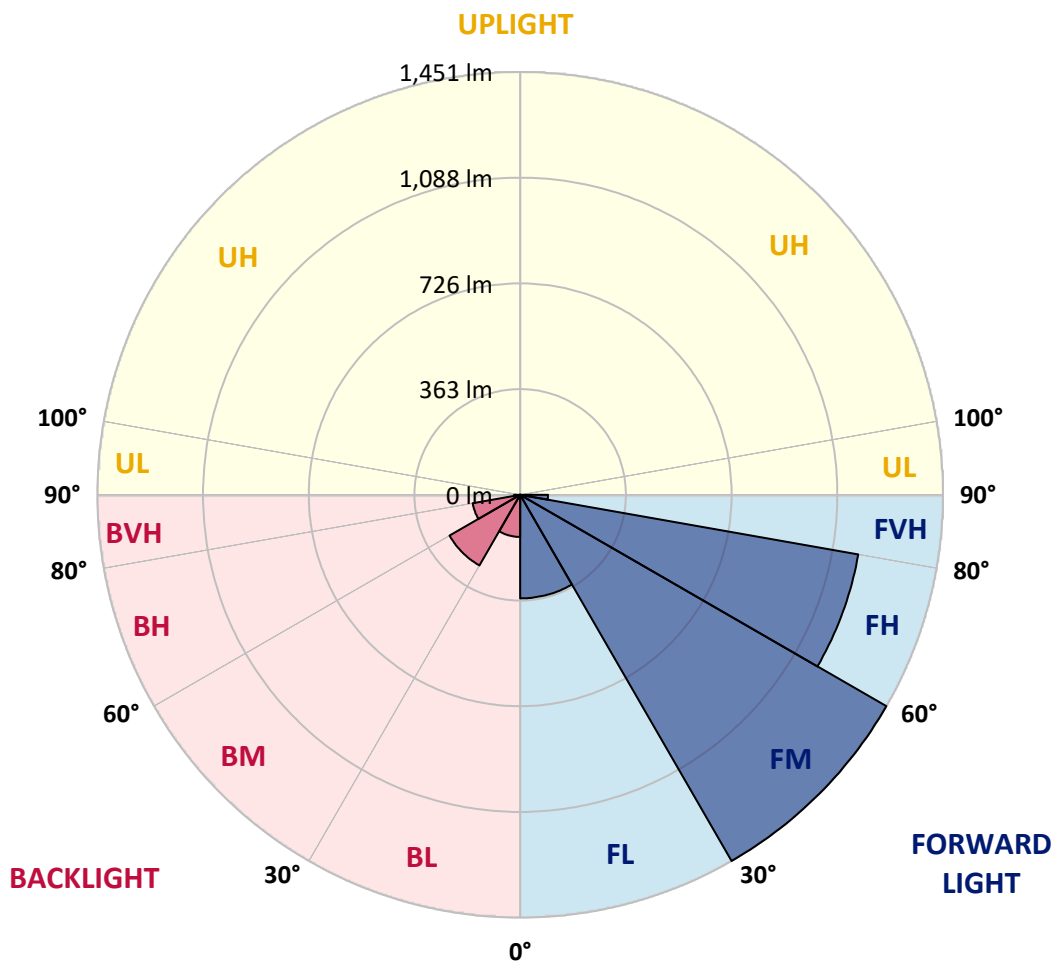
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-600

**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	1269.6	1225.8	1180.1	1152.4	1119.8	1094.5	1072.2	1027.6	1018.8	1026.7
5°	1218.6	1165.8	1083.1	999.9	944.5	885.1	838.8	801.6	745.0	735.1	747.1
7.5°	1094.7	1031.3	922.2	816.0	737.8	663.4	613.5	573.8	529.5	510.5	511.6
10°	987.8	916.3	787.3	671.8	607.6	557.5	515.5	474.6	429.8	400.4	392.3
12.5°	927.8	845.7	696.9	593.8	534.4	481.6	436.3	392.7	344.8	314.8	306.3
15°	917.5	828.2	663.0	543.9	469.4	402.6	349.2	300.5	251.2	226.9	221.8
17.5°	962.4	859.5	652.0	499.4	408.4	325.9	260.3	206.0	165.8	153.6	152.6
20°	1048.4	919.5	650.6	457.7	348.0	251.4	181.5	141.9	124.2	120.7	120.9
22.5°	1169.1	1012.7	668.1	426.2	292.7	187.5	136.4	118.8	111.8	108.5	108.5
25°	1325.4	1141.0	708.3	403.2	244.6	149.8	120.3	109.8	103.3	101.1	101.5
27.5°	1476.8	1265.8	754.9	385.1	213.1	136.0	114.1	104.5	98.8	96.6	97.6
30°	1595.0	1376.6	793.9	360.6	197.0	132.2	116.3	106.6	98.4	94.9	95.1
32.5°	1692.8	1473.6	826.5	343.0	182.9	113.2	100.2	96.0	94.9	90.9	88.9
35°	1817.8	1579.3	848.5	343.4	176.2	101.1	89.3	81.8	76.3	71.6	71.6
37.5°	1964.3	1700.7	871.9	348.0	173.7	94.0	85.4	77.9	72.8	68.4	67.6
40°	2109.2	1819.6	893.1	352.5	172.3	89.7	82.3	75.5	70.8	66.4	65.2
42.5°	2232.4	1917.4	912.3	354.8	167.5	89.3	80.2	73.9	69.4	64.5	63.3
45°	2323.5	1999.5	932.7	358.2	162.5	90.9	80.2	73.7	68.2	63.5	62.3
47.5°	2404.9	2095.6	967.0	358.2	156.7	87.9	82.8	73.9	68.0	63.1	62.1
50°	2513.9	2227.5	1032.0	349.8	148.3	84.6	87.3	73.0	66.2	62.3	61.1
52.5°	2664.1	2396.6	1135.1	335.4	135.5	78.4	86.6	72.6	64.3	60.3	58.8
55°	2841.7	2577.6	1247.5	318.6	116.5	73.9	83.6	71.6	62.3	57.8	56.5
57.5°	2980.3	2702.2	1326.7	292.7	99.8	71.4	74.1	70.6	59.8	55.2	54.0
60°	3035.4	2697.3	1348.4	258.0	91.8	69.4	64.8	79.2	57.8	53.2	51.8
62.5°	3005.6	2572.7	1287.5	233.5	89.9	66.8	60.7	73.2	56.3	51.8	49.7
65°	2867.8	2352.0	1126.2	227.1	95.1	64.1	58.0	57.4	54.0	49.7	47.7
67.5°	2567.7	2022.0	901.7	227.7	101.9	61.5	55.4	52.6	50.9	47.5	45.6
70°	2091.3	1598.6	672.2	229.3	105.4	58.4	52.6	49.5	47.7	44.2	43.1
72.5°	1537.7	1232.0	488.3	218.8	106.0	55.0	48.7	46.0	44.2	40.6	39.6
75°	1052.1	942.4	338.7	181.3	92.4	50.1	44.4	42.0	40.8	36.3	35.7
77.5°	768.5	707.5	216.8	134.5	71.2	44.1	39.2	37.3	36.5	31.6	30.9
80°	616.7	559.8	135.5	92.2	52.2	36.9	32.8	31.8	31.1	26.2	25.6
82.5°	427.8	374.8	87.1	59.8	39.2	28.6	26.0	25.6	24.3	19.8	19.2
85°	225.7	203.6	55.2	40.8	28.4	19.6	18.1	18.1	17.5	13.2	12.8
87.5°	28.8	46.9	28.0	21.3	15.7	8.7	8.7	8.5	9.1	7.5	6.4
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°	1008.0	1017.7	1008.4	1009.0	1019.4	1050.3	1064.3	1075.8	1088.2	1096.3	1100.0
5°	730.6	753.3	761.1	777.2	801.2	840.6	856.2	867.6	875.1	879.5	881.4
7.5°	499.6	513.4	528.9	555.1	607.2	630.3	640.7	638.0	629.5	626.5	623.5
10°	376.7	371.2	368.4	382.8	424.9	448.3	455.6	448.5	443.9	444.9	449.9
12.5°	291.8	282.3	270.8	269.1	296.9	317.8	322.4	322.8	331.4	338.9	350.1
15°	212.7	211.6	206.0	202.5	218.4	235.4	237.4	241.1	248.8	254.3	264.0
17.5°	150.0	155.5	159.9	162.1	174.1	186.3	184.0	182.3	180.9	180.9	185.5
20°	120.9	124.6	130.3	136.8	148.9	157.5	152.0	144.7	139.4	137.8	138.4
22.5°	108.9	111.8	115.1	120.7	131.8	137.6	131.8	126.4	121.1	119.4	118.8
25°	102.9	106.6	109.6	113.9	121.9	126.0	120.3	116.5	113.2	111.0	109.4
27.5°	99.4	102.7	103.5	105.6	112.4	116.1	113.2	111.6	109.6	107.5	105.6
30°	95.7	95.1	93.8	94.0	99.4	103.1	102.9	103.3	103.1	102.5	102.1
32.5°	87.5	86.2	85.0	86.2	91.3	94.6	94.7	95.5	95.5	95.3	97.0
35°	72.8	75.1	76.5	80.2	86.2	89.1	87.9	85.8	82.1	80.0	79.8
37.5°	67.4	67.8	70.2	75.3	82.0	84.6	82.8	78.2	75.7	75.3	75.9
40°	64.8	65.2	66.6	71.2	77.9	80.6	79.0	75.5	73.2	73.0	74.1
42.5°	62.9	63.3	64.1	67.4	72.8	76.1	76.3	73.9	71.2	71.4	72.4
45°	61.9	62.1	61.9	63.5	68.6	72.4	74.1	72.4	70.2	70.6	71.8
47.5°	61.7	61.1	60.3	60.7	66.0	69.8	71.8	71.2	70.2	70.6	71.6
50°	60.9	59.4	58.4	58.2	63.5	67.6	69.4	69.4	69.8	70.6	71.6
52.5°	58.4	56.8	56.8	56.3	61.9	65.8	67.0	67.2	67.8	69.3	70.6
55°	55.4	54.8	55.4	54.4	60.7	64.3	65.0	65.4	65.8	67.0	69.0
57.5°	52.8	52.0	53.4	53.0	59.6	62.9	62.9	63.7	63.7	65.4	67.0
60°	51.4	49.7	50.3	50.7	58.2	61.7	61.3	62.1	62.5	63.9	65.2
62.5°	49.5	48.1	48.1	49.1	56.7	59.8	59.6	60.3	61.9	62.3	63.5
65°	47.3	46.6	46.0	47.3	55.0	57.8	58.0	58.8	60.3	60.7	61.7
67.5°	45.0	45.2	44.1	45.2	53.6	55.9	55.9	57.4	58.0	58.8	59.8
70°	42.7	42.9	41.8	43.3	52.6	53.6	53.4	55.6	56.1	56.7	57.6
72.5°	39.6	39.6	39.2	41.2	50.9	51.4	50.9	52.8	53.0	53.6	54.0
75°	36.3	36.3	35.9	38.8	49.9	48.9	47.7	49.1	49.5	49.9	49.9
77.5°	32.0	32.4	32.4	35.9	46.4	47.9	43.9	44.6	45.2	45.4	44.8
80°	26.8	27.8	28.2	32.6	39.0	44.2	39.2	39.8	40.0	40.0	39.2
82.5°	20.5	22.3	23.3	28.2	29.9	37.1	34.1	34.7	34.1	32.8	32.4
85°	14.2	16.7	17.9	21.5	22.5	28.6	28.4	28.4	27.2	25.6	25.4
87.5°	7.7	9.1	9.9	12.8	15.4	19.2	20.9	20.3	19.2	18.3	18.5
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):**

	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°	1119.0	1146.6	1190.7	1224.4	1258.2	1291.0	1326.3	1353.3	1376.2	1385.1	1412.3
5°	899.9	934.4	976.0	1051.1	1104.2	1162.9	1230.6	1320.3	1354.9	1402.6	1480.7
7.5°	636.3	667.5	734.5	795.1	870.4	953.4	1044.9	1168.7	1214.0	1290.6	1417.8
10°	475.1	511.4	565.2	616.3	682.7	767.5	872.7	1011.1	1066.1	1149.1	1295.6
12.5°	382.8	425.5	482.6	530.7	582.1	641.9	744.0	895.8	969.5	1042.1	1190.3
15°	294.1	338.9	391.9	453.0	509.6	574.1	681.1	847.1	931.9	1007.6	1134.0
17.5°	203.6	241.9	308.7	372.4	444.9	527.4	663.6	857.4	958.7	1046.0	1143.8
20°	144.3	166.2	221.0	294.9	385.1	488.9	660.4	911.9	1043.5	1143.1	1206.3
22.5°	121.3	129.5	161.3	229.1	333.5	460.1	671.8	988.2	1158.0	1285.2	1305.9
25°	110.6	115.5	132.2	179.8	287.3	439.2	710.1	1101.8	1299.7	1427.3	1423.6
27.5°	104.8	109.8	120.7	151.8	252.7	426.2	748.5	1236.5	1461.6	1581.6	1536.1
30°	102.9	109.8	121.3	143.1	227.9	405.7	779.9	1354.9	1586.2	1685.6	1587.2
32.5°	101.5	102.5	107.7	123.4	204.4	381.8	801.2	1461.0	1708.2	1784.7	1660.9
35°	82.0	87.1	95.5	110.6	190.6	367.3	801.2	1552.5	1828.3	1884.8	1731.1
37.5°	79.0	83.4	90.9	103.7	182.9	360.2	785.2	1640.8	1951.1	1998.2	1788.9
40°	77.3	81.0	88.1	98.4	179.6	352.1	761.9	1718.8	2071.1	2111.9	1842.9
42.5°	76.1	79.4	86.0	95.1	175.3	343.2	743.0	1781.3	2175.2	2208.9	1894.5
45°	75.5	79.0	86.2	96.8	166.8	331.4	736.7	1848.8	2260.8	2289.9	1950.3
47.5°	75.5	79.6	87.3	100.2	156.7	319.3	756.4	1937.9	2341.7	2356.0	2016.0
50°	74.9	79.4	90.1	96.8	141.9	303.8	802.6	2050.2	2429.4	2431.0	2099.3
52.5°	73.7	79.0	97.0	94.7	124.8	283.6	865.1	2194.2	2559.1	2568.8	2229.5
55°	72.2	78.4	95.1	90.1	110.8	259.3	916.3	2369.4	2741.4	2768.4	2421.1
57.5°	70.4	77.5	92.2	83.6	101.7	228.3	934.8	2497.6	2868.7	2936.4	2637.1
60°	68.8	76.9	83.2	79.8	96.0	202.1	899.1	2472.3	2859.9	3006.0	2828.5
62.5°	67.2	77.5	75.9	77.3	93.4	185.3	805.7	2269.1	2715.2	2934.1	2970.3
65°	65.4	72.0	71.6	75.3	92.8	178.6	667.9	1964.5	2435.5	2707.0	3003.8
67.5°	62.9	66.6	68.6	72.6	94.7	172.7	539.0	1620.6	2046.9	2366.7	2829.3
70°	60.3	63.3	65.6	69.4	93.6	170.1	448.3	1278.0	1624.1	1939.7	2484.8
72.5°	56.8	59.4	61.5	65.2	92.4	168.7	378.7	1029.1	1212.6	1440.9	2020.3
75°	52.8	55.2	56.7	60.3	88.5	154.5	297.7	870.8	907.4	1002.4	1609.1
77.5°	48.1	49.9	51.1	55.2	78.4	128.5	215.3	671.8	704.6	727.7	1233.7
80°	42.7	44.4	45.0	48.9	65.0	100.5	140.5	496.2	527.0	532.3	805.7
82.5°	36.3	38.2	38.2	41.8	53.2	72.2	92.2	339.9	346.1	363.9	569.5
85°	29.3	30.7	30.7	32.4	41.2	54.0	63.3	170.6	168.9	192.8	493.4
87.5°	20.9	21.9	22.9	23.3	29.5	35.7	38.2	52.0	34.3	39.4	316.8
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°	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1432.7	1444.4	1432.5	1424.0	1387.3	1357.0	1316.7	1296.0
5°	1540.2	1569.6	1559.6	1523.9	1447.2	1360.9	1262.9	1218.6
7.5°	1527.2	1595.6	1597.1	1530.4	1417.4	1290.4	1157.6	1094.7
10°	1426.1	1513.6	1538.5	1473.8	1353.9	1211.8	1059.6	987.8
12.5°	1313.3	1398.9	1418.0	1395.6	1295.4	1152.8	998.3	927.8
15°	1220.9	1259.3	1282.0	1301.5	1245.2	1129.2	994.8	917.5
17.5°	1164.7	1160.4	1167.0	1200.8	1210.4	1156.1	1047.6	962.4
20°	1144.4	1079.2	1077.7	1124.3	1193.9	1220.5	1150.7	1048.4
22.5°	1155.5	1050.1	1036.7	1092.0	1202.7	1313.3	1285.8	1169.1
25°	1194.1	1052.5	1041.7	1095.3	1234.3	1412.1	1431.8	1325.4
27.5°	1254.9	1067.9	1053.6	1108.7	1276.3	1495.1	1575.4	1476.8
30°	1312.4	1094.7	1077.1	1135.1	1314.7	1528.0	1663.5	1595.0
32.5°	1382.4	1144.8	1113.8	1183.6	1362.2	1580.4	1742.1	1692.8
35°	1451.1	1216.3	1177.7	1258.4	1415.2	1645.5	1831.8	1817.8
37.5°	1526.3	1309.6	1277.8	1355.3	1487.6	1707.0	1946.3	1964.3
40°	1606.7	1433.4	1395.6	1496.5	1600.0	1784.1	2065.7	2109.2
42.5°	1687.7	1570.8	1525.7	1628.0	1723.6	1860.2	2168.0	2232.4
45°	1780.4	1720.0	1698.6	1809.3	1842.3	1932.7	2243.5	2323.5
47.5°	1888.4	1889.2	1923.6	1967.7	1962.0	2014.6	2319.4	2404.9
50°	2014.4	2100.5	2176.2	2205.6	2085.5	2102.7	2424.8	2513.9
52.5°	2165.8	2353.2	2446.9	2427.7	2218.4	2210.3	2591.6	2664.1
55°	2355.1	2620.6	2713.8	2700.0	2371.2	2356.8	2799.4	2841.7
57.5°	2574.4	2879.8	2965.4	2903.3	2554.7	2517.5	2971.4	2980.3
60°	2767.0	3085.1	3160.3	3091.5	2739.8	2688.6	3078.7	3035.4
62.5°	2874.1	3154.8	3207.6	3133.5	2866.6	2870.8	3102.2	3005.6
65°	2826.2	2978.8	2995.9	2989.8	2833.9	2976.6	3017.6	2867.8
67.5°	2564.0	2534.0	2562.6	2602.2	2553.9	2837.4	2783.1	2567.7
70°	2102.1	1937.1	1994.1	2020.7	2042.6	2441.6	2415.7	2091.3
72.5°	1584.1	1357.0	1402.2	1396.6	1498.1	1958.4	1878.6	1537.7
75°	1122.5	920.1	925.9	923.6	1045.4	1532.3	1360.3	1052.1
77.5°	785.4	666.7	669.7	682.3	702.8	1155.5	971.9	768.5
80°	540.0	506.0	522.8	523.8	487.0	776.2	718.0	616.7
82.5°	402.2	351.7	347.6	353.5	381.8	628.9	551.8	427.8
85°	329.4	208.2	167.5	209.8	338.3	622.9	366.5	225.7
87.5°	185.5	98.8	44.6	82.8	134.9	412.4	106.0	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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