

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: P458527

Luminaire Tested: **GALN-SA1A-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3096 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 24 FT

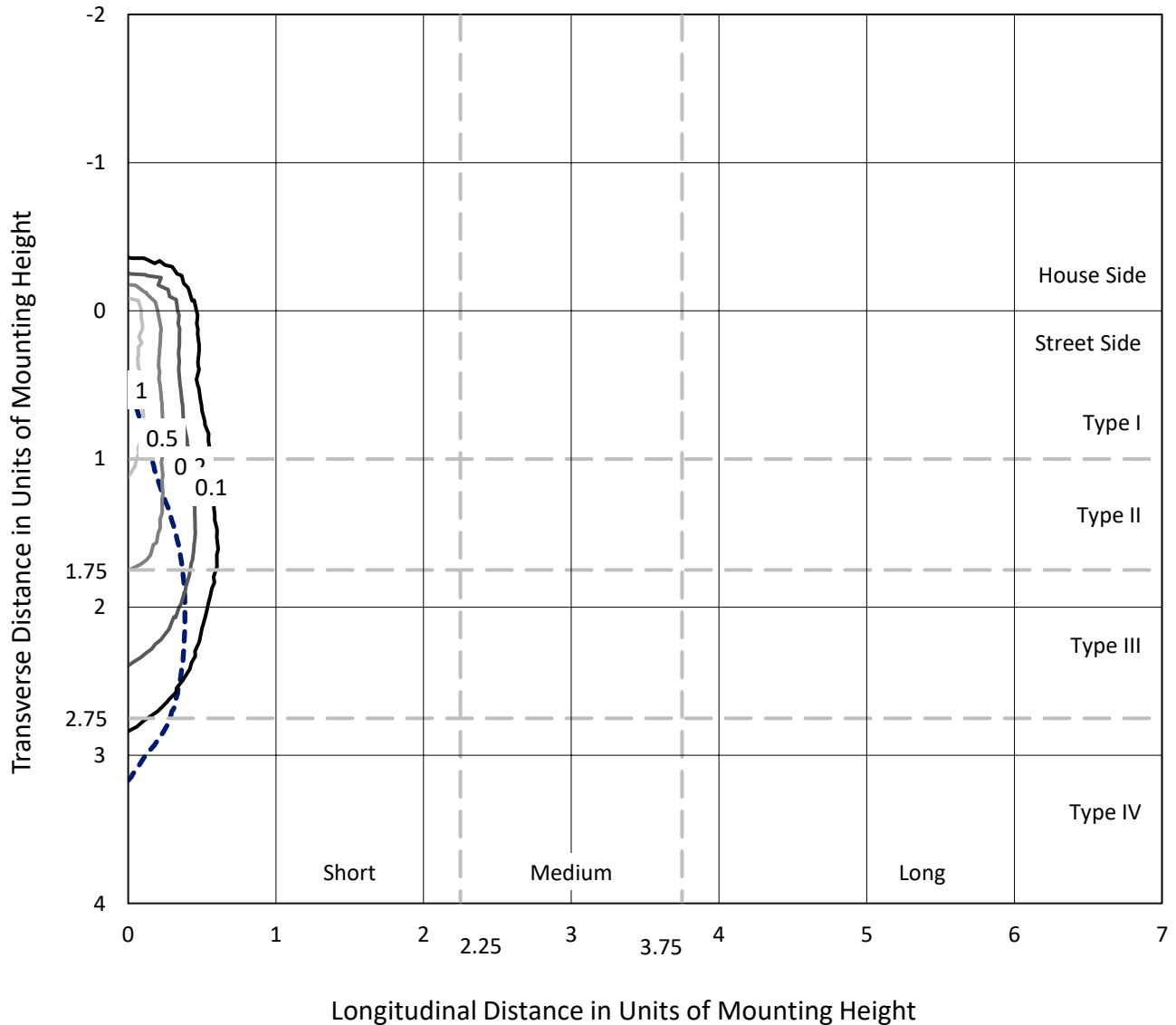




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### Iso-Footcandle Lines of Horizontal Illumination

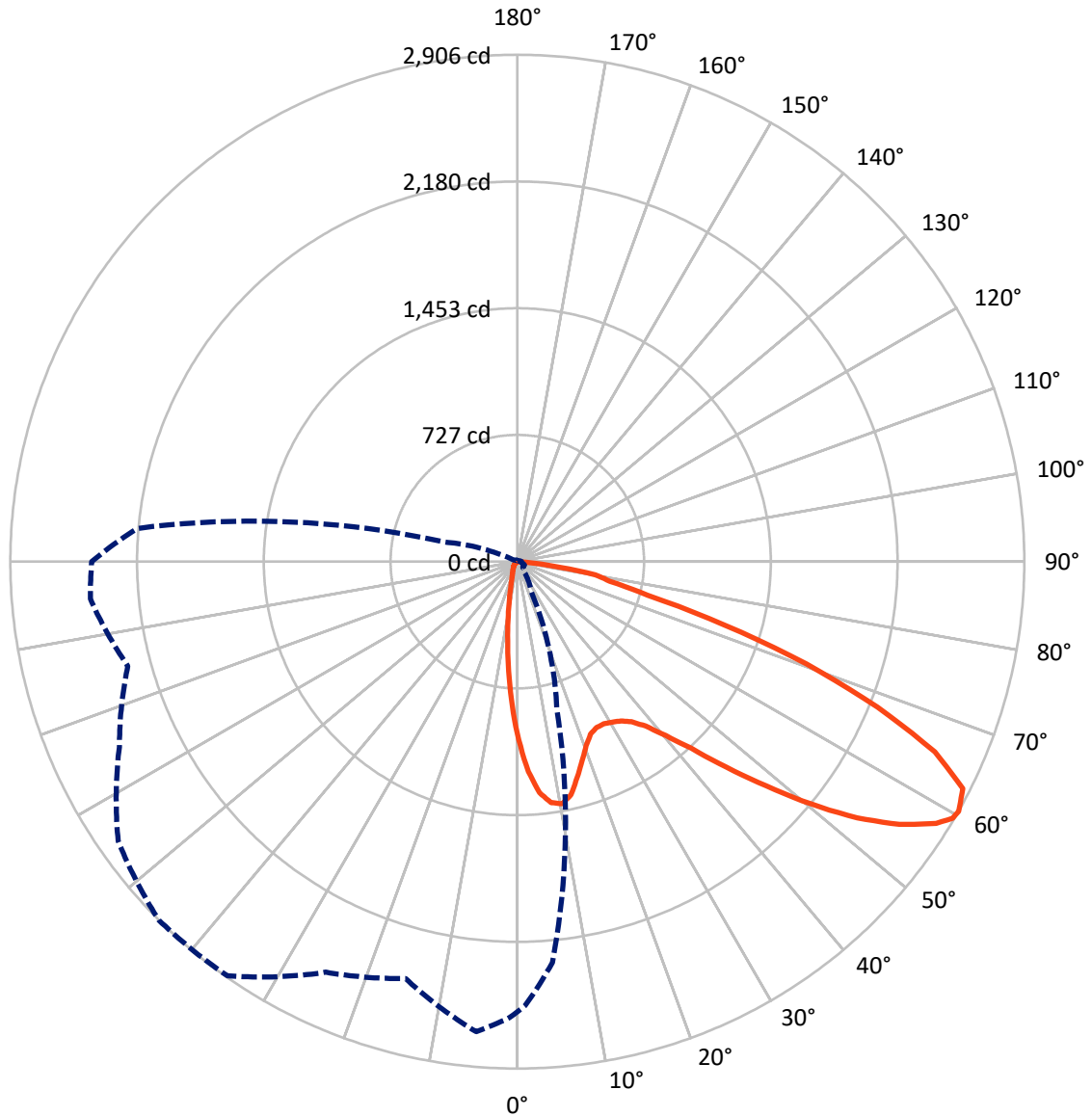
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	381.9	0.0	381.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	2714.1	0.0	2714.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	3096.0	0.0	3096.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	2.5
10°-20°	151.2	4.9
20°-30°	221.6	7.2
30°-40°	329.6	10.6
40°-50°	479.7	15.5
50°-60°	691.7	22.3
60°-70°	760.8	24.6
70°-80°	340.8	11.0
80°-90°	44.5	1.4
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°	3096.0	100.0
0°-180°	3096.0	100.0



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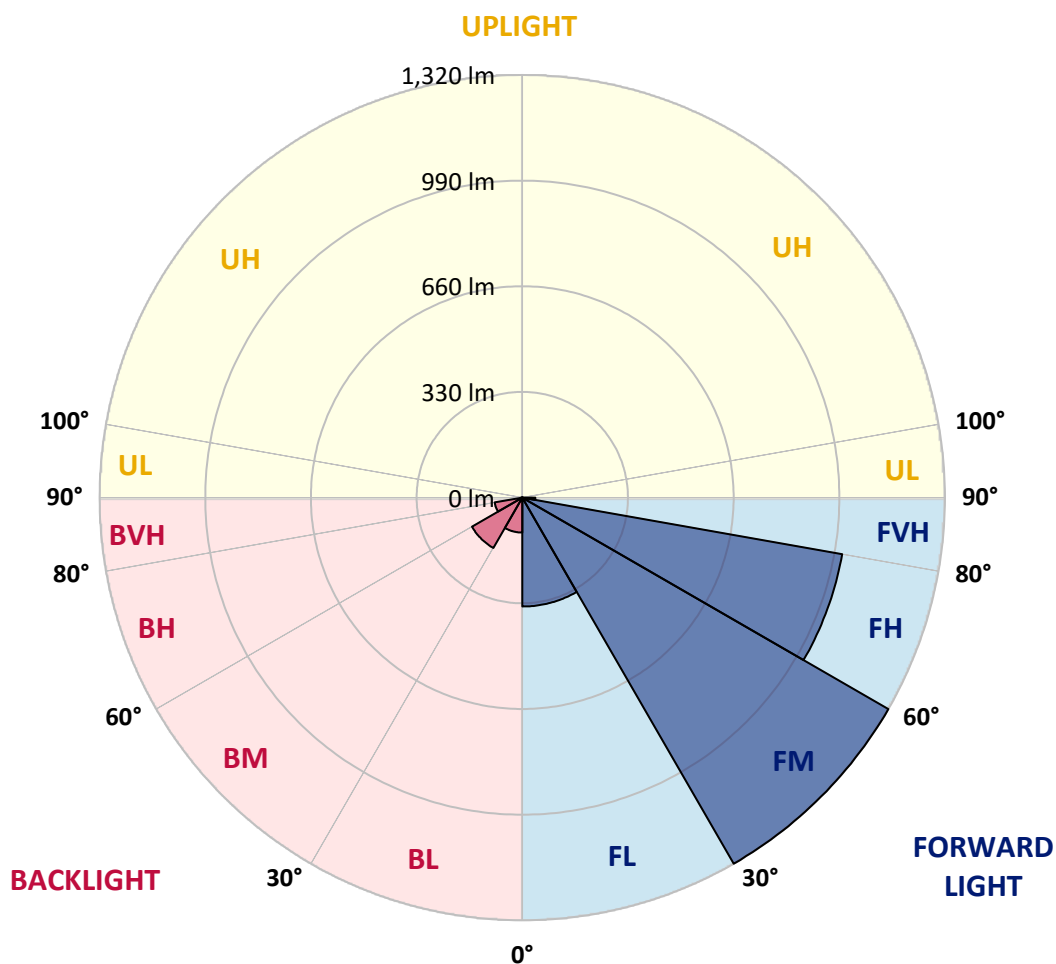
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.8	11.0			
FM (30°-60°)	1319.6	42.6			
FH (60°-80°)	1014.0	32.8			G1/1800
FVH (80°-90°)	40.7	1.3			G1/100
BL (0°-30°)	109.1	3.5	B0/110		
BM (30°-60°)	181.4	5.9	B0/220		
BH (60°-80°)	87.6	2.8	B0/110		G0/110
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1124.9	1120.0	1108.7	1074.3	1044.5	1005.4	965.8	934.8	915.7	880.7	864.7
5°	1089.9	1092.2	1059.5	988.9	910.3	856.6	798.0	751.5	700.1	667.7	633.5
7.5°	998.3	993.6	958.1	859.7	764.2	686.5	612.4	552.1	514.2	483.9	458.4
10°	920.0	916.4	871.0	744.4	641.8	583.7	533.5	480.8	440.1	395.6	360.1
12.5°	870.8	862.8	810.5	678.3	594.7	540.6	486.0	431.1	374.9	330.0	286.9
15°	854.3	842.8	784.6	655.4	564.6	495.9	427.4	364.3	299.6	249.9	217.5
17.5°	884.2	865.1	803.2	651.4	528.6	437.5	353.3	271.1	203.8	165.9	145.9
20°	952.7	930.8	850.3	647.4	488.6	372.1	268.5	191.6	141.0	120.3	109.2
22.5°	1054.3	1024.2	920.0	653.8	451.6	308.3	193.9	135.3	112.0	99.1	91.3
25°	1176.5	1151.3	1008.2	676.4	422.4	258.2	149.9	110.6	94.4	86.4	80.5
27.5°	1310.4	1270.1	1122.4	703.4	395.8	219.3	131.6	98.8	84.0	76.7	73.7
30°	1405.7	1374.4	1217.9	722.3	362.7	190.2	120.3	97.4	84.3	75.5	69.9
32.5°	1499.8	1459.8	1297.9	731.0	338.4	169.9	104.0	85.0	73.9	69.4	63.8
35°	1600.6	1558.7	1377.7	726.3	320.3	156.5	94.4	75.8	63.3	55.8	50.1
37.5°	1702.5	1658.2	1457.0	709.3	309.0	151.1	86.8	72.0	59.8	52.0	45.9
40°	1823.4	1764.4	1531.4	695.4	297.2	148.3	81.9	69.7	57.2	49.0	42.8
42.5°	1922.3	1866.0	1601.7	688.1	289.2	141.7	81.9	67.8	55.5	46.4	40.0
45°	2015.9	1957.6	1677.8	694.0	285.9	133.4	82.8	67.5	54.4	44.5	38.1
47.5°	2094.3	2043.7	1755.9	716.1	281.7	124.5	77.9	70.8	53.7	42.8	36.2
50°	2186.8	2137.9	1859.2	760.9	274.2	115.6	71.8	76.3	53.4	41.4	34.6
52.5°	2317.2	2264.2	2001.8	811.7	262.2	101.9	66.1	75.5	52.5	39.1	32.9
55°	2476.5	2433.7	2167.0	872.7	245.7	86.6	57.2	67.1	49.7	35.1	30.1
57.5°	2578.7	2542.2	2290.8	899.0	220.5	70.8	50.4	56.2	45.4	31.3	26.8
59°	2590.7	2557.7	2316.7	890.3	204.0	64.7	47.1	48.2	44.2	29.2	24.9
60°	2580.5	2546.4	2306.4	873.4	188.7	60.5	44.2	42.8	44.5	28.0	23.5
62.5°	2515.6	2457.2	2205.9	787.5	165.0	55.5	39.3	35.1	39.3	25.2	20.9
65°	2390.1	2302.6	2007.0	666.5	155.6	52.7	33.4	29.4	29.9	22.1	18.1
67.5°	2171.0	2060.7	1742.2	541.5	151.6	53.0	28.2	26.4	23.1	18.8	16.0
70°	1824.6	1714.5	1397.9	445.5	149.7	53.0	24.0	22.6	19.3	15.8	13.9
72.5°	1293.0	1174.4	943.0	350.0	134.9	52.7	20.5	20.5	15.8	13.2	11.3
75°	730.5	731.4	592.8	247.6	112.0	43.5	16.5	16.2	11.5	10.1	8.5
77.5°	425.7	418.2	399.6	106.4	52.0	19.8	11.5	9.9	8.0	7.3	6.1
80°	218.9	180.0	175.3	38.6	18.6	12.5	8.0	5.6	5.2	4.7	4.2
82.5°	64.7	65.0	57.9	15.5	10.4	8.2	4.0	3.1	2.8	2.6	2.6
85°	4.5	2.8	3.3	4.7	6.4	3.3	0.2	0.7	0.7	0.9	1.2
87.5°	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	847.0	857.4	838.1	838.5	822.5	827.7	808.9	815.0	803.9	812.4	837.4
5°	637.3	639.7	624.1	619.2	621.5	631.2	635.0	617.8	625.1	610.7	609.8
7.5°	449.0	451.9	442.9	441.7	458.7	454.7	462.0	444.3	427.6	434.9	421.5
10°	348.8	337.0	318.7	313.5	310.2	312.3	312.3	296.3	293.9	287.6	297.2
12.5°	275.4	261.0	243.6	220.0	214.2	213.7	205.0	190.9	186.4	181.0	189.0
15°	200.0	194.2	179.6	166.4	153.0	150.4	136.3	124.7	109.4	107.3	106.6
17.5°	140.7	132.0	131.8	124.3	116.5	111.3	98.1	85.0	79.1	78.4	78.4
20°	105.4	102.4	97.4	96.5	94.1	88.3	76.5	69.4	66.6	66.8	67.8
22.5°	88.7	86.6	82.1	80.0	79.1	73.9	65.2	60.5	59.1	59.1	59.3
25°	79.3	77.4	72.5	69.2	68.0	64.2	57.4	53.9	52.7	52.7	52.7
27.5°	72.3	69.9	64.7	61.9	59.8	55.5	51.3	47.8	46.6	46.6	46.8
30°	67.3	64.7	60.0	56.2	53.0	49.2	45.7	42.6	41.2	40.9	41.2
32.5°	60.7	58.4	53.7	51.3	47.5	43.1	40.2	37.4	36.0	36.2	36.0
35°	47.3	46.6	43.3	44.0	41.9	38.1	35.5	32.5	30.8	30.6	31.1
37.5°	43.1	40.2	36.5	36.7	36.0	34.6	30.4	27.1	25.9	25.9	26.1
40°	39.8	36.9	32.7	30.6	30.8	30.8	26.4	22.8	21.7	21.4	21.9
42.5°	36.9	34.1	29.4	25.9	24.9	26.1	22.4	18.8	17.7	17.2	17.7
45°	35.1	32.0	26.6	22.6	19.8	21.2	18.4	15.5	14.1	14.1	13.9
47.5°	33.2	30.4	24.5	19.5	16.5	15.8	15.1	12.5	11.1	10.8	11.1
50°	31.5	28.7	22.1	16.9	13.9	12.2	12.2	9.9	8.9	8.5	8.7
52.5°	29.9	26.8	20.0	15.1	12.0	9.9	8.7	8.0	7.3	7.1	7.3
55°	27.5	24.5	17.9	12.9	10.4	8.2	6.8	6.6	6.1	5.6	6.1
57.5°	24.7	21.9	15.8	11.1	8.2	6.4	5.6	5.4	4.9	4.7	4.7
59°	23.1	20.5	14.6	9.6	7.3	5.6	5.2	4.9	4.5	4.0	4.2
60°	22.1	20.0	13.9	8.9	6.6	5.2	4.7	4.5	4.0	3.8	4.0
62.5°	19.5	17.9	12.2	7.3	5.2	3.8	3.3	3.5	3.3	3.1	3.3
65°	17.2	15.8	10.4	5.6	4.0	2.6	2.4	3.1	2.8	2.6	2.8
67.5°	15.3	13.6	8.7	4.2	2.8	1.4	1.6	2.6	2.6	2.4	2.6
70°	13.2	11.8	7.1	3.1	1.4	0.7	1.2	1.9	2.4	2.1	2.4
72.5°	10.8	9.2	5.4	2.1	0.7	0.0	0.7	1.6	2.4	2.1	2.4
75°	8.5	6.8	4.0	1.2	0.0	0.0	0.2	1.4	2.4	2.1	2.4
77.5°	6.1	4.9	2.4	0.2	0.0	0.0	0.2	1.4	2.4	2.1	2.4
80°	4.0	3.5	0.9	0.0	0.0	0.0	0.2	1.4	2.4	2.4	2.6
82.5°	2.6	1.9	0.0	0.0	0.0	0.0	0.5	1.9	2.6	2.8	2.8
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.9	2.4	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.8	3.5	3.5	3.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	841.6	856.4	877.4	909.6	935.7	976.9	1008.4	1051.5	1095.1	1108.2	1128.7
5°	619.4	638.5	686.0	729.3	756.6	843.7	898.8	985.6	1063.5	1100.9	1141.6
7.5°	430.2	452.8	489.0	549.5	607.0	677.8	766.7	866.1	980.2	1033.6	1091.1
10°	301.9	330.2	381.3	430.9	503.2	570.5	658.3	767.9	893.8	956.9	1028.9
12.5°	190.6	215.8	283.4	339.1	429.3	507.4	588.4	687.7	833.6	898.3	973.9
15°	109.0	130.1	161.7	233.2	333.2	436.6	537.5	652.8	802.8	882.5	964.2
17.5°	81.2	86.8	101.0	141.4	232.5	353.3	490.7	642.3	823.7	917.4	1010.6
20°	68.2	72.0	78.6	94.6	148.3	272.1	445.0	644.1	891.5	1009.2	1097.6
22.5°	61.2	63.5	69.0	79.3	101.2	198.2	391.6	655.2	973.6	1121.9	1224.0
25°	53.7	56.7	61.4	70.4	84.3	137.4	338.9	679.9	1088.7	1265.0	1361.0
27.5°	47.8	50.6	55.3	63.5	73.9	105.0	277.5	701.1	1210.1	1409.0	1487.6
30°	41.9	44.7	49.4	56.0	65.4	85.0	211.3	713.6	1328.0	1517.0	1577.5
32.5°	36.9	39.3	43.8	49.7	57.4	72.0	166.6	700.6	1418.2	1615.2	1655.6
35°	32.0	34.8	38.6	44.0	50.8	61.4	138.6	655.9	1495.6	1716.1	1730.7
37.5°	26.8	30.1	34.1	39.1	44.5	56.5	111.3	606.5	1578.4	1842.0	1818.0
40°	22.6	25.7	29.4	34.8	39.8	51.8	85.7	553.8	1667.9	1960.2	1913.3
42.5°	18.4	21.7	26.1	31.1	39.3	45.2	66.4	499.2	1748.1	2063.0	1999.5
45°	14.6	17.4	22.1	28.5	39.1	38.8	51.3	445.3	1808.6	2136.4	2063.7
47.5°	11.5	13.9	18.6	27.8	36.0	32.9	41.2	411.9	1872.2	2202.6	2112.9
50°	9.2	11.5	16.0	28.9	31.5	28.2	34.6	417.3	1933.6	2236.2	2133.2
52.5°	7.8	10.1	13.9	22.8	24.2	24.7	30.4	442.2	2012.9	2272.2	2173.4
55°	6.8	8.9	11.8	16.0	18.8	22.1	27.8	460.3	2119.0	2349.4	2262.1
57.5°	5.4	7.8	10.6	13.6	15.5	19.3	25.7	461.7	2215.1	2448.5	2380.0
59°	4.9	7.1	9.9	12.9	13.9	17.4	24.2	449.7	2218.6	2463.3	2434.2
60°	4.5	6.8	9.4	12.0	13.2	16.5	23.1	435.9	2186.6	2439.8	2456.5
62.5°	3.8	5.9	8.2	9.6	11.3	13.6	20.0	385.5	2031.5	2333.2	2415.1
65°	3.3	5.2	7.1	8.0	9.4	11.8	17.7	308.5	1860.2	2188.7	2296.5
67.5°	3.1	4.7	6.1	6.8	8.2	10.8	15.8	217.9	1638.2	2005.4	2118.3
70°	2.8	4.5	5.4	6.4	7.3	9.2	13.4	127.1	1261.9	1683.9	1803.2
72.5°	2.8	4.2	4.7	5.4	6.4	8.2	12.5	68.7	862.8	1284.5	1438.7
75°	2.8	4.0	4.2	4.7	5.6	7.5	11.1	36.0	557.8	892.4	1101.4
77.5°	2.8	3.8	4.2	4.5	5.4	6.6	9.6	22.6	371.6	625.1	744.4
80°	3.1	3.8	4.0	4.5	5.2	6.1	8.0	15.1	218.4	376.1	453.0
82.5°	3.3	3.8	4.2	4.7	5.4	5.9	7.1	9.4	100.7	248.8	281.5
85°	3.5	4.0	4.5	4.9	5.6	5.9	6.6	6.8	16.5	112.3	151.8
87.5°	3.8	4.2	4.7	5.2	6.1	6.1	6.1	6.1	5.6	12.0	30.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1154.6	1181.2	1199.8	1204.5	1191.1	1185.0	1168.0	1141.6	1125.6	1124.9
5°	1216.7	1279.1	1322.4	1329.7	1303.8	1260.0	1208.0	1140.9	1101.6	1089.9
7.5°	1206.1	1315.3	1385.0	1395.1	1351.6	1268.0	1167.3	1059.3	1016.4	998.3
10°	1162.6	1295.8	1395.3	1411.4	1353.2	1235.6	1107.5	987.0	933.8	920.0
12.5°	1125.4	1260.0	1348.5	1370.6	1326.6	1209.2	1071.8	940.7	883.7	870.8
15°	1109.2	1217.7	1271.8	1283.1	1275.8	1192.7	1068.0	933.6	868.4	854.3
17.5°	1125.4	1181.7	1188.5	1200.0	1216.3	1191.1	1104.2	972.0	901.6	884.2
20°	1168.0	1150.4	1122.1	1127.1	1164.2	1197.9	1168.7	1056.9	971.3	952.7
22.5°	1240.5	1142.6	1078.6	1074.3	1121.4	1220.7	1263.3	1172.0	1072.7	1054.3
25°	1329.5	1162.1	1062.6	1053.4	1104.7	1254.1	1366.2	1313.0	1204.5	1176.5
27.5°	1426.4	1202.6	1062.6	1053.6	1103.3	1283.8	1454.2	1437.7	1341.0	1310.4
30°	1479.6	1236.0	1077.9	1067.8	1120.7	1301.0	1501.3	1548.6	1443.6	1405.7
32.5°	1527.1	1282.4	1107.8	1088.7	1157.2	1326.4	1543.4	1642.7	1525.3	1499.8
35°	1570.9	1332.0	1148.9	1126.8	1205.2	1361.2	1590.0	1741.5	1638.9	1600.6
37.5°	1619.2	1389.7	1213.2	1194.4	1285.4	1429.0	1645.3	1871.4	1750.7	1702.5
40°	1671.6	1456.5	1318.9	1310.9	1413.0	1505.7	1715.2	2010.1	1878.3	1823.4
42.5°	1725.1	1533.5	1448.3	1461.5	1557.5	1613.3	1787.0	2116.7	1982.8	1922.3
45°	1773.5	1631.9	1616.6	1681.8	1726.0	1718.2	1840.1	2191.8	2073.8	2015.9
47.5°	1834.7	1775.2	1820.1	1920.6	1921.8	1832.4	1880.4	2253.2	2152.2	2094.3
50°	1903.2	1944.4	2083.0	2185.4	2157.9	1944.6	1927.5	2325.9	2233.2	2186.8
52.5°	1982.5	2133.9	2325.9	2439.6	2375.3	2067.0	2005.8	2404.5	2361.7	2317.2
55°	2074.8	2263.1	2568.1	2658.7	2594.0	2219.1	2124.9	2511.1	2506.9	2476.5
57.5°	2179.0	2399.6	2708.3	2830.9	2773.3	2397.4	2291.3	2611.6	2595.6	2578.7
59°	2261.4	2469.7	2770.2	2897.3	2862.5	2522.4	2403.1	2674.2	2616.1	2590.7
60°	2311.3	2517.2	2793.1	2906.3	2898.3	2596.8	2473.9	2704.8	2615.8	2580.5
62.5°	2459.3	2600.3	2784.3	2866.5	2897.8	2739.4	2681.7	2738.5	2567.4	2515.6
65°	2512.1	2572.8	2640.1	2630.0	2656.8	2732.1	2814.5	2701.5	2463.8	2390.1
67.5°	2409.4	2270.8	2294.6	2227.1	2213.9	2429.0	2760.6	2520.8	2261.2	2171.0
70°	2031.0	1739.7	1727.7	1758.7	1673.5	1966.5	2478.9	2172.7	1926.8	1824.6
72.5°	1598.7	1229.4	1128.2	1242.6	1240.0	1500.3	2059.3	1541.7	1301.7	1293.0
75°	1257.2	855.9	751.2	769.8	805.6	1086.1	1640.1	979.0	801.6	730.5
77.5°	843.9	606.5	565.8	542.9	581.5	697.3	1037.6	530.9	449.5	425.7
80°	486.5	440.6	500.3	454.2	474.9	439.4	516.1	243.6	202.2	218.9
82.5°	316.5	250.9	267.3	198.6	271.6	273.9	165.7	72.0	61.0	64.7
85°	197.9	117.7	66.1	47.1	93.7	172.3	51.8	4.5	5.2	4.5
87.5°	51.3	19.5	8.2	12.2	15.1	13.4	12.0	0.7	0.2	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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