

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: P450347

Luminaire Tested: **GALN-SA1A-827-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2443 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

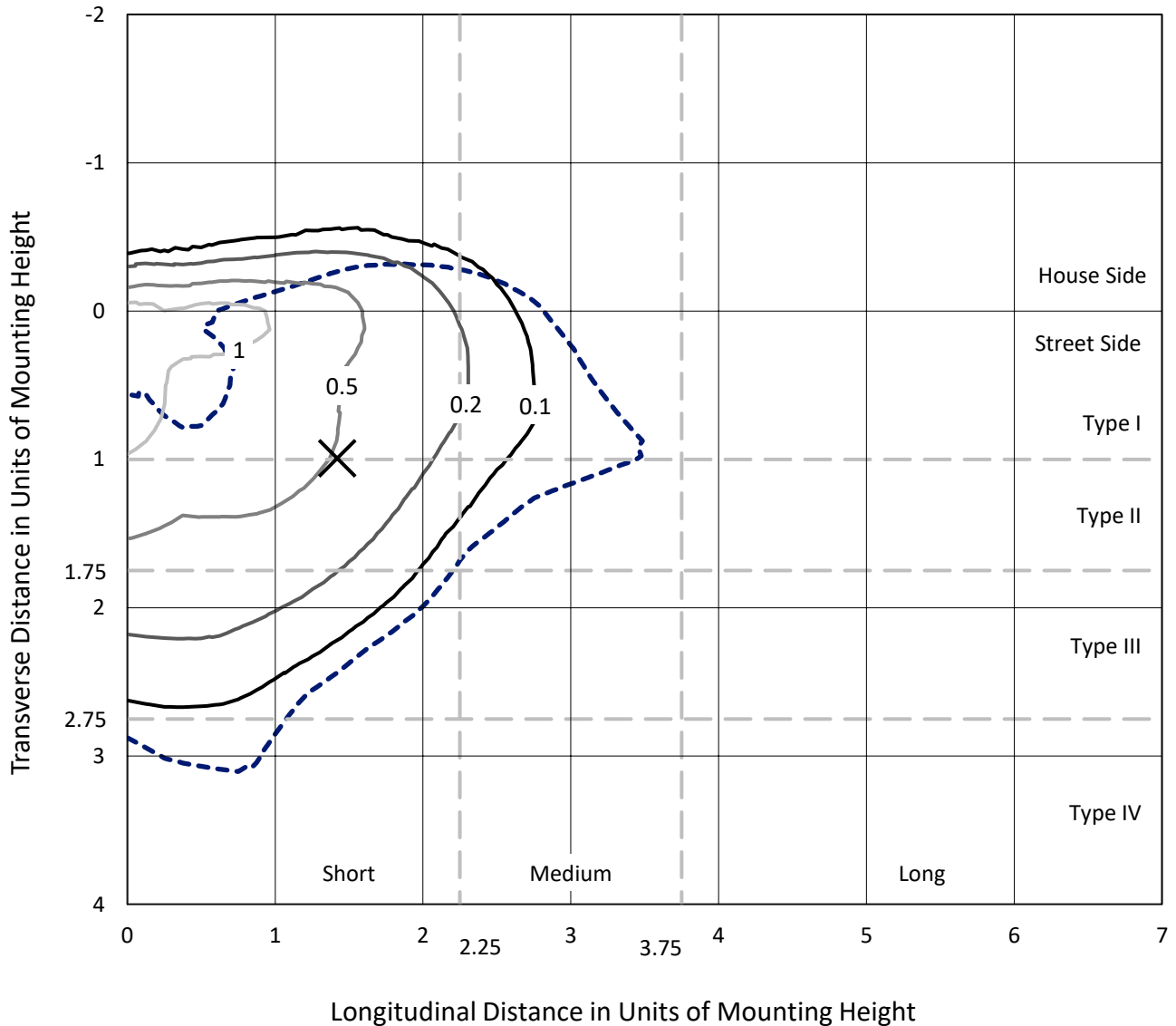
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

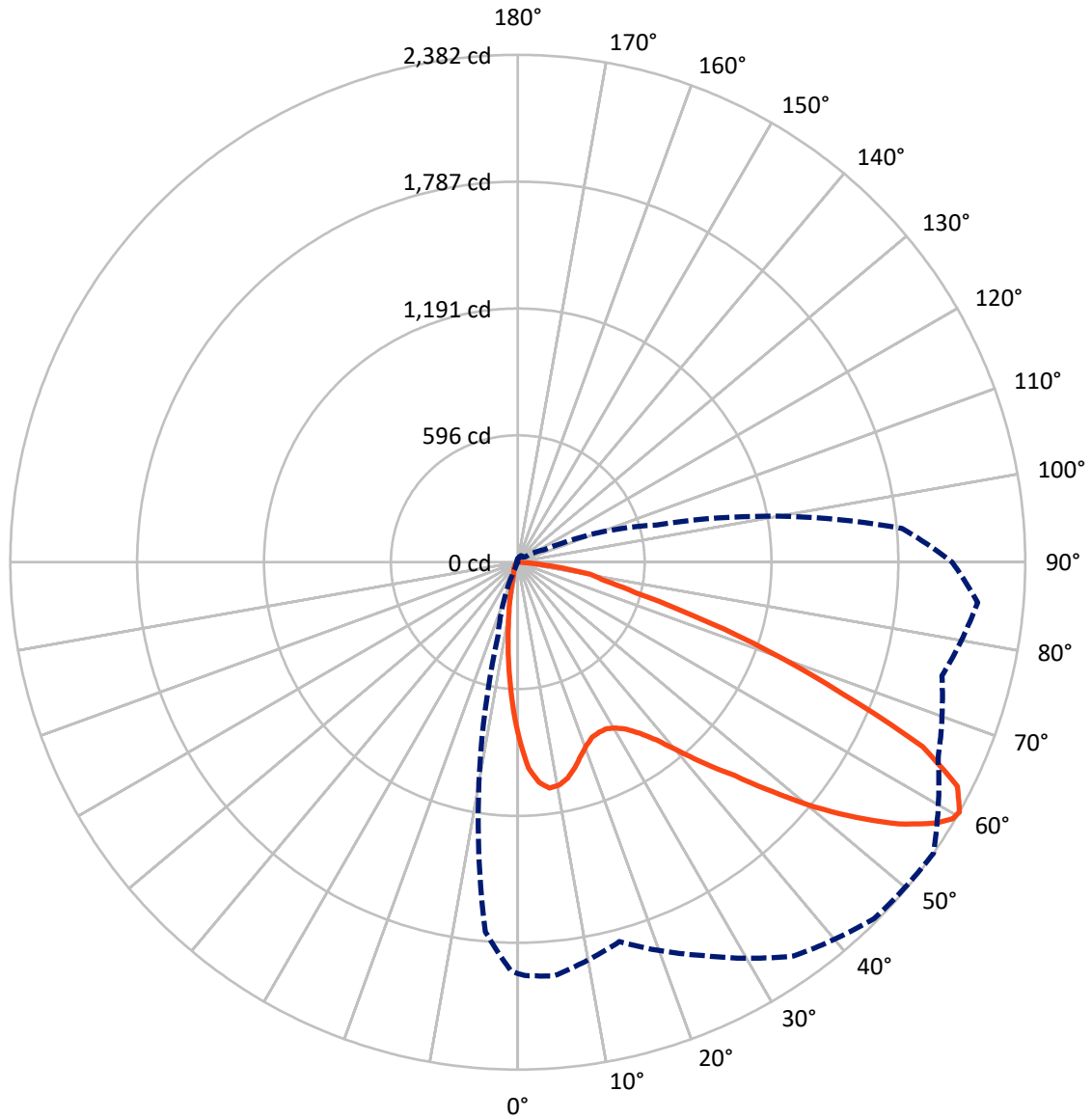
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	362.6	0.0	362.6
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	2080.4	0.0	2080.4
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	2443.0	0.0	2443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	2.5
10°-20°	120.6	4.9
20°-30°	178.5	7.3
30°-40°	266.1	10.9
40°-50°	389.8	16.0
50°-60°	562.7	23.0
60°-70°	591.9	24.2
70°-80°	243.5	10.0
80°-90°	28.5	1.2
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°	2443.0	100.0
0°-180°	2443.0	100.0

**Coefficient of Utilization**



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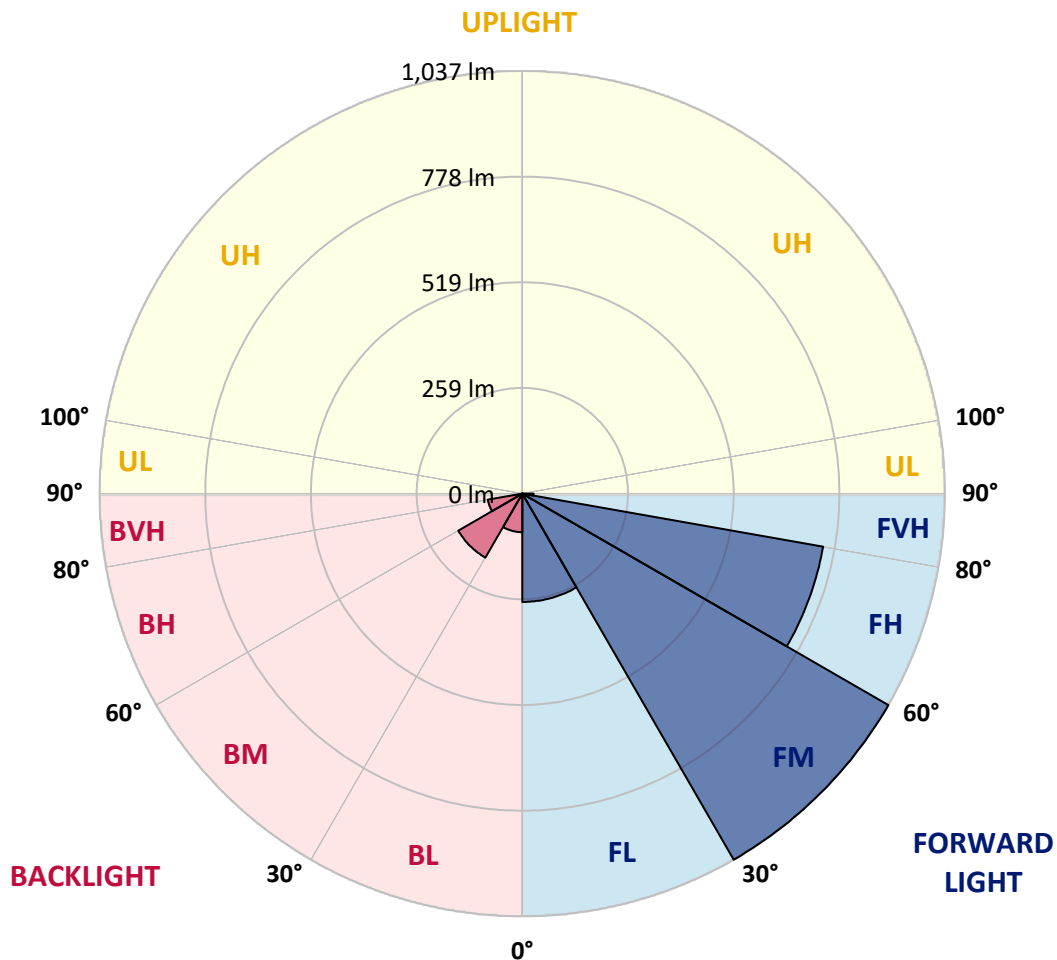
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.8	10.9			
FM (30°-60°)	1037.3	42.5			
FH (60°-80°)	749.6	30.7			G1/1800
FVH (80°-90°)	27.7	1.1			G1/100
BL (0°-30°)	94.6	3.9	B0/110		
BM (30°-60°)	181.3	7.4	B0/220		
BH (60°-80°)	85.8	3.5	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	903.7	902.2	915.6	937.4	959.4	970.9	968.6	967.7	949.4	936.1	908.1
5°	901.8	909.6	933.4	992.5	1037.2	1058.9	1065.3	1038.4	1002.8	951.3	887.7
7.5°	847.9	857.5	896.4	988.7	1068.3	1115.3	1113.6	1070.5	997.2	917.5	826.8
10°	780.9	792.2	837.9	950.0	1053.2	1115.3	1118.7	1064.1	972.9	870.6	775.3
12.5°	733.7	747.1	797.7	913.9	1014.5	1075.6	1079.5	1040.1	954.7	852.6	747.3
15°	717.8	730.4	781.7	895.6	973.3	1006.2	1005.3	1001.1	947.5	856.9	748.8
17.5°	745.2	755.5	813.5	903.9	934.8	931.4	936.3	956.2	949.0	893.2	796.2
20°	816.1	826.6	888.9	929.3	905.2	883.8	886.0	919.3	963.0	961.5	870.3
22.5°	913.7	931.6	988.0	978.6	901.3	854.3	849.6	892.8	986.7	1040.1	970.3
25°	1037.2	1055.3	1099.3	1057.2	920.6	847.3	843.0	884.7	1015.4	1116.8	1082.9
27.5°	1141.0	1154.8	1198.6	1133.7	949.2	850.3	843.2	885.9	1038.7	1182.0	1177.9
30°	1224.1	1234.3	1260.1	1169.4	973.9	863.5	855.2	902.4	1049.1	1213.8	1254.8
32.5°	1291.1	1308.2	1316.3	1207.6	1009.2	888.3	874.2	934.2	1074.3	1253.1	1335.5
35°	1367.6	1387.4	1377.0	1244.1	1055.9	927.0	909.7	985.7	1112.5	1289.4	1429.1
37.5°	1464.7	1487.4	1447.0	1282.4	1105.1	985.3	977.2	1058.1	1170.4	1341.3	1529.5
40°	1565.1	1578.2	1514.9	1329.1	1165.7	1070.1	1077.9	1165.7	1246.1	1403.5	1636.3
42.5°	1643.5	1655.9	1584.6	1368.2	1227.5	1170.7	1202.9	1295.4	1333.0	1467.3	1716.1
45°	1703.5	1714.0	1632.9	1410.9	1311.0	1316.5	1377.2	1429.1	1420.1	1506.2	1777.6
47.5°	1750.1	1759.1	1670.2	1456.8	1436.1	1494.7	1587.6	1609.6	1510.3	1548.3	1833.2
50°	1769.3	1771.9	1681.8	1515.2	1578.0	1721.9	1818.7	1805.4	1613.8	1595.2	1892.4
52.5°	1794.3	1793.7	1715.1	1570.9	1711.6	1925.0	2021.6	1991.4	1730.7	1665.3	1959.0
55°	1859.9	1860.7	1786.4	1649.9	1825.3	2088.9	2192.4	2170.4	1854.1	1783.8	2036.7
57.5°	1939.6	1942.5	1887.7	1742.2	1934.0	2207.8	2319.9	2311.4	2020.9	1915.6	2110.0
59°	1950.0	1955.6	1935.7	1807.3	1998.5	2244.3	2363.5	2371.8	2110.2	2002.5	2149.7
60°	1931.2	1940.6	1949.6	1844.1	2036.3	2257.4	2366.1	2382.3	2177.3	2061.5	2167.7
62.5°	1849.2	1864.1	1909.4	1957.5	2083.5	2216.4	2282.1	2315.9	2260.4	2216.6	2169.4
65°	1741.8	1749.5	1815.0	1977.6	1991.9	2025.0	2045.3	2088.8	2160.6	2276.4	2091.8
67.5°	1565.8	1588.6	1668.7	1860.9	1721.7	1682.6	1677.5	1634.3	1820.8	2133.9	1900.3
70°	1293.5	1303.7	1402.4	1525.6	1299.4	1239.2	1263.3	1247.1	1411.4	1837.0	1529.5
72.5°	978.2	1001.1	1097.6	1216.1	884.2	806.1	872.5	866.5	1060.2	1476.3	1050.8
75°	695.9	710.8	833.8	951.7	619.2	524.6	548.5	570.9	740.1	1165.7	620.9
77.5°	478.2	491.0	583.3	629.4	451.7	432.7	395.8	417.5	485.0	691.6	337.9
80°	288.5	287.9	348.6	359.9	314.6	365.4	306.5	344.1	293.2	296.0	130.9
82.5°	187.3	185.4	213.2	232.4	175.1	184.1	123.5	178.1	191.0	82.6	41.4
85°	83.9	87.4	102.5	135.2	76.7	40.8	25.2	54.7	81.4	41.6	0.0
87.5°	8.6	6.8	18.1	32.9	10.5	1.1	3.8	1.9	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°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	895.1	884.2	851.6	821.2	795.0	763.1	742.4	709.9	690.1	684.1	685.0
5°	859.2	827.8	765.9	716.4	661.3	629.9	582.2	536.3	511.5	502.3	498.1
7.5°	783.9	750.3	675.6	598.0	538.9	483.8	448.3	407.9	380.2	357.5	353.5
10°	728.1	683.9	591.4	507.9	461.3	419.9	384.4	343.9	311.4	285.4	278.3
12.5°	694.6	645.2	541.9	472.0	427.8	385.3	339.0	292.2	258.9	230.9	217.9
15°	688.6	631.3	528.0	446.2	391.7	340.4	278.9	228.3	194.1	167.5	159.5
17.5°	724.9	656.3	526.0	419.3	344.5	271.7	207.8	165.9	127.3	112.4	106.6
20°	789.6	700.5	525.8	388.1	296.0	209.3	145.9	108.1	92.5	85.4	82.0
22.5°	877.8	760.6	535.7	361.2	245.6	154.4	104.2	86.1	77.1	71.3	70.0
25°	985.5	849.8	560.2	343.0	207.0	121.1	85.9	73.7	66.2	63.6	62.4
27.5°	1081.2	935.1	587.1	324.2	179.4	107.2	79.7	67.5	61.5	59.4	57.7
30°	1163.8	1012.6	600.0	299.4	157.2	98.2	80.9	72.2	64.3	58.1	55.3
32.5°	1232.6	1072.0	608.5	276.8	138.4	80.3	63.9	55.8	52.3	50.0	48.1
35°	1318.7	1136.3	603.4	264.0	128.8	73.1	58.3	48.1	42.1	37.6	35.7
37.5°	1409.0	1200.6	594.6	253.5	124.5	67.9	55.5	45.7	39.1	34.4	32.0
40°	1502.4	1260.3	584.2	243.7	120.5	64.5	53.8	43.6	37.0	32.0	29.3
42.5°	1588.0	1318.4	580.1	237.3	114.1	65.1	52.5	42.7	35.0	29.7	27.5
45°	1657.2	1373.5	585.7	233.9	107.2	64.1	52.8	41.6	33.3	28.2	25.9
47.5°	1731.1	1451.3	604.0	230.5	100.4	59.6	55.7	41.4	32.5	27.3	24.8
50°	1817.0	1551.0	645.7	222.3	92.1	54.7	59.2	41.2	31.6	26.1	23.7
52.5°	1931.6	1664.2	688.8	207.8	80.1	50.0	56.6	40.6	29.7	24.8	22.4
55°	2034.4	1783.4	725.3	190.7	64.9	43.2	51.0	38.2	26.5	22.6	20.3
57.5°	2076.9	1850.7	724.1	167.0	51.9	38.0	41.9	35.0	23.1	19.9	18.1
59°	2061.3	1842.2	699.9	149.5	47.4	35.2	34.8	34.6	21.6	18.1	16.5
60°	2039.3	1811.4	673.8	140.8	44.6	33.3	32.0	34.2	20.3	16.9	15.4
62.5°	1955.1	1683.5	587.1	126.2	40.8	28.2	25.6	29.0	18.1	14.7	13.4
65°	1833.0	1487.0	497.0	122.0	39.7	23.3	21.2	20.7	15.4	12.4	11.3
67.5°	1595.0	1258.4	402.6	119.2	40.1	19.6	18.6	15.6	12.8	10.3	9.6
70°	1277.0	981.2	329.6	116.0	40.4	16.0	15.6	12.4	10.3	8.6	7.9
72.5°	775.9	581.6	259.5	100.8	39.3	12.8	13.9	9.4	7.5	6.2	5.8
75°	479.7	398.1	161.0	78.4	25.9	9.4	9.8	5.8	5.1	3.9	3.9
77.5°	277.9	251.4	57.5	28.2	11.5	5.6	4.3	3.0	2.8	1.7	1.7
80°	115.3	92.3	19.9	9.6	6.2	2.6	0.9	0.2	0.0	0.0	0.0
82.5°	33.7	29.9	5.5	4.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	669.1	662.8	660.0	669.6	660.8	672.1	663.4	667.2	678.3	683.2	695.8
5°	500.8	494.4	491.4	505.8	505.1	512.2	511.5	518.1	523.7	511.1	524.1
7.5°	348.8	344.5	351.6	362.9	375.0	371.0	371.0	362.2	365.2	363.3	362.7
10°	265.3	250.5	246.7	246.3	250.8	251.8	246.7	234.5	239.0	240.3	248.2
12.5°	208.7	197.3	179.8	171.9	169.8	171.5	154.8	144.0	149.1	146.1	153.8
15°	149.7	140.3	129.9	121.1	118.7	115.3	97.0	84.2	82.7	83.3	84.6
17.5°	106.8	100.4	100.4	91.0	85.9	75.8	66.6	60.9	60.4	60.9	61.9
20°	78.8	75.4	75.0	72.6	66.9	60.2	53.8	52.7	52.3	53.2	53.6
22.5°	67.9	64.3	61.3	61.1	55.8	50.2	47.2	45.7	45.9	46.3	47.2
25°	60.7	57.0	53.8	51.9	48.1	44.2	41.4	40.6	40.6	41.2	41.4
27.5°	55.7	51.0	48.1	45.5	42.1	38.7	36.3	35.7	35.4	35.7	36.7
30°	52.1	47.4	43.8	39.9	37.2	34.0	32.0	31.2	31.0	31.2	32.0
32.5°	44.6	41.7	38.9	35.4	32.2	30.1	27.8	26.5	26.5	26.9	27.6
35°	33.7	32.2	32.0	31.0	28.4	26.1	23.5	22.2	22.2	22.9	23.3
37.5°	29.7	26.9	26.5	26.1	25.0	22.0	19.6	18.4	18.2	18.8	19.6
40°	27.1	23.9	22.2	21.8	22.0	18.6	16.0	14.9	14.9	15.0	15.8
42.5°	25.0	21.2	18.2	17.9	18.6	15.6	13.0	11.8	11.8	11.8	12.8
45°	23.3	19.0	15.4	13.5	14.7	12.8	10.5	9.4	9.0	9.4	9.8
47.5°	22.2	17.3	13.5	10.9	10.9	10.2	8.5	7.1	6.8	7.0	7.5
50°	21.2	15.8	11.5	8.8	7.9	8.1	6.4	5.5	5.1	5.1	5.6
52.5°	19.7	14.3	10.0	7.5	6.0	5.5	4.7	3.9	3.8	3.9	4.3
55°	17.9	13.0	8.6	6.2	4.7	3.8	3.4	2.8	2.6	2.8	3.4
57.5°	15.8	10.9	7.0	4.9	3.2	2.4	2.3	1.9	1.5	1.7	2.1
59°	14.5	9.8	6.0	3.9	2.4	1.7	1.7	1.3	0.9	1.1	1.7
60°	13.9	9.0	5.1	3.4	2.1	1.3	1.3	0.9	0.6	0.8	1.3
62.5°	11.8	7.5	3.9	2.1	0.9	0.2	0.6	0.2	0.0	0.2	0.6
65°	10.0	6.0	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	8.3	4.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	696.5	723.4	739.9	771.2	803.1	827.8	858.6	886.2	897.7	903.7
5°	537.2	574.7	606.4	654.0	698.2	752.0	806.5	870.8	895.5	901.8
7.5°	377.0	415.2	448.5	503.6	566.6	638.6	720.2	801.8	837.7	847.9
10°	272.3	313.1	353.7	408.8	467.7	545.7	630.7	731.7	773.0	780.9
12.5°	171.9	215.7	281.7	349.8	412.0	474.8	563.7	673.6	719.3	733.7
15°	99.7	132.4	182.2	271.0	350.1	433.2	530.3	651.8	702.9	717.8
17.5°	66.8	78.0	112.3	180.1	284.7	394.9	521.8	669.6	726.2	745.2
20°	56.2	61.3	73.3	109.8	219.3	360.7	524.1	718.1	792.4	816.1
22.5°	49.5	54.2	61.9	79.0	153.1	318.2	534.8	787.5	883.4	913.7
25°	43.6	48.3	55.1	65.4	102.9	269.1	558.3	889.1	1004.0	1037.2
27.5°	38.7	43.1	48.9	57.7	79.2	214.4	579.2	988.0	1114.0	1141.0
30°	34.2	37.8	43.4	50.2	65.8	165.3	589.7	1074.5	1194.1	1224.1
32.5°	29.7	33.1	38.5	44.0	54.2	126.0	582.4	1138.0	1271.9	1291.1
35°	25.4	29.0	33.5	38.5	46.8	101.7	545.7	1209.5	1352.6	1367.6
37.5°	21.8	24.8	29.5	33.5	42.3	81.4	501.3	1273.8	1443.0	1464.7
40°	18.4	21.4	26.1	29.7	38.9	64.1	461.3	1345.2	1538.4	1565.1
42.5°	15.0	18.6	22.8	28.6	33.5	48.9	412.8	1403.2	1610.0	1643.5
45°	12.0	16.0	20.5	28.4	29.1	37.2	365.9	1448.3	1673.4	1703.5
47.5°	9.6	13.5	19.7	26.5	23.9	29.5	339.2	1495.5	1726.0	1750.1
50°	7.7	11.3	20.7	23.3	19.9	25.0	338.5	1548.1	1753.3	1769.3
52.5°	6.2	9.2	17.5	17.9	16.9	22.0	358.8	1607.4	1781.1	1794.3
55°	5.3	7.7	11.5	13.2	15.2	19.9	374.0	1698.6	1847.5	1859.9
57.5°	4.1	6.6	8.8	10.5	13.5	18.2	376.1	1768.9	1931.6	1939.6
59°	3.6	5.6	7.9	9.4	12.4	17.1	367.6	1773.2	1937.0	1950.0
60°	3.0	5.1	7.0	8.8	11.5	16.2	358.4	1741.8	1916.7	1931.2
62.5°	2.3	3.9	5.1	7.1	9.4	13.9	314.8	1632.2	1839.0	1849.2
65°	1.5	2.8	3.8	5.3	7.3	12.0	256.5	1490.0	1719.1	1741.8
67.5°	0.9	2.1	3.0	3.9	6.0	10.2	182.8	1277.7	1551.2	1565.8
70°	0.6	1.3	2.3	3.2	4.7	8.1	108.5	1010.0	1290.5	1293.5
72.5°	0.4	0.9	1.5	2.3	3.8	7.3	52.7	658.3	942.3	978.2
75°	0.2	0.6	0.9	1.7	3.0	6.0	25.2	439.8	685.6	695.9
77.5°	0.0	0.2	0.6	1.1	2.3	4.7	14.7	288.8	467.5	478.2
80°	0.0	0.0	0.4	0.9	1.7	3.0	8.8	170.4	283.2	288.5
82.5°	0.0	0.0	0.2	0.8	1.1	2.3	4.5	74.8	185.4	187.3
85°	0.0	0.0	0.2	0.8	0.9	1.5	1.7	10.2	82.4	83.9
87.5°	0.0	0.0	0.2	0.9	0.9	0.9	0.9	0.6	7.0	8.6
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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