

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: P588539

Luminaire Tested: **GAT-CA6-LED-90-722-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GAT-CA6-LED-90-722-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7369 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

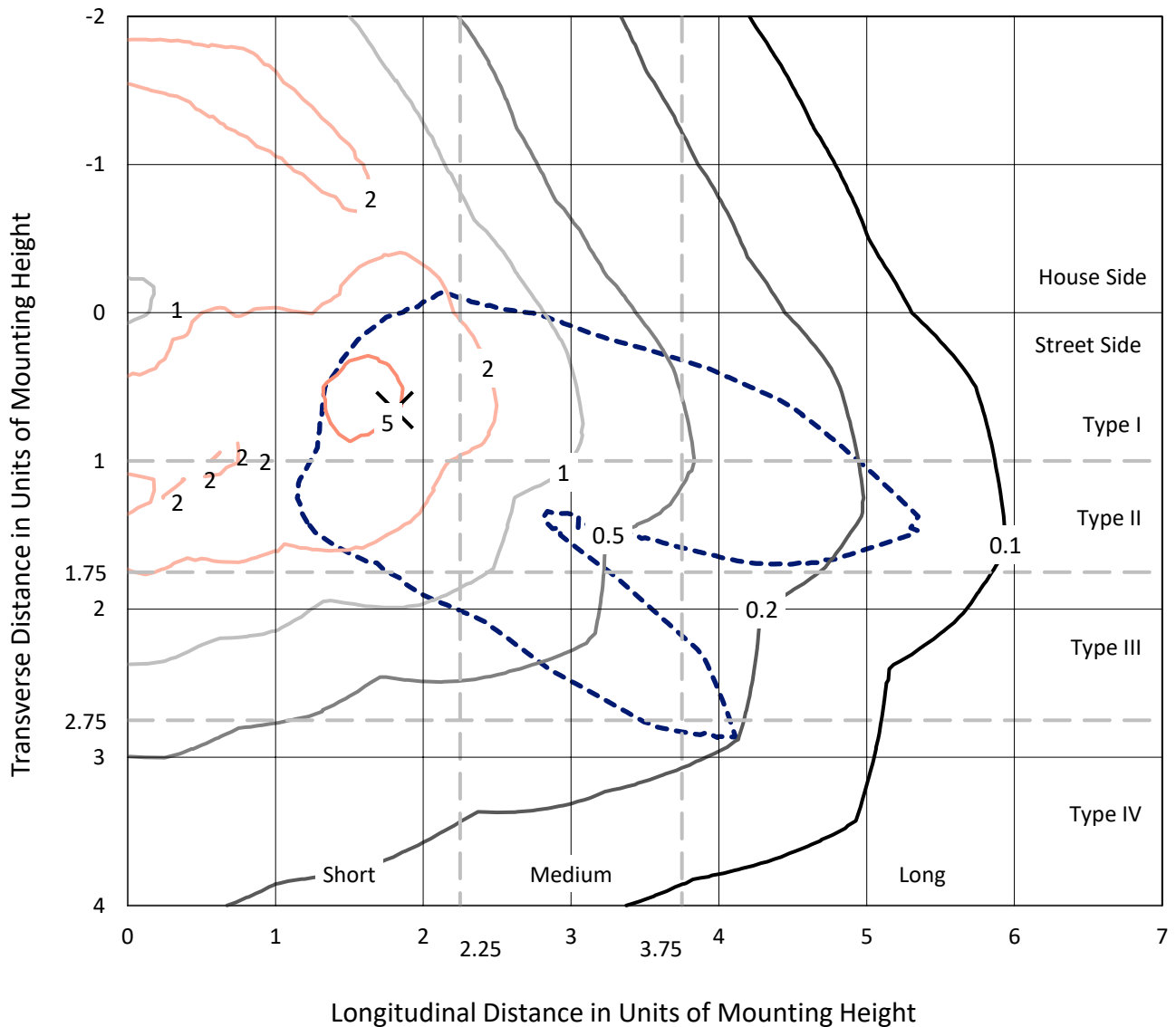
Input Watts (W): 93.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

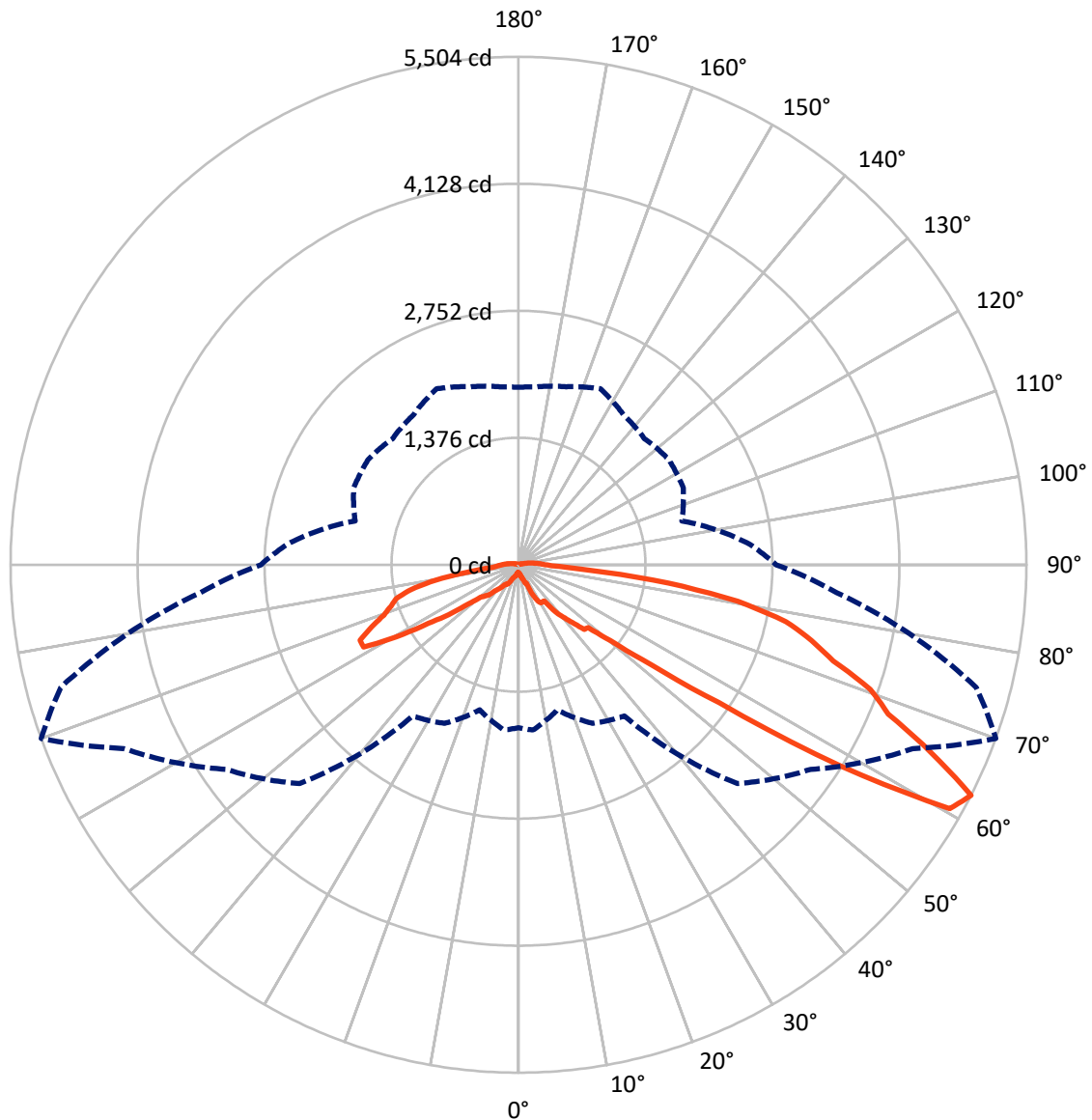
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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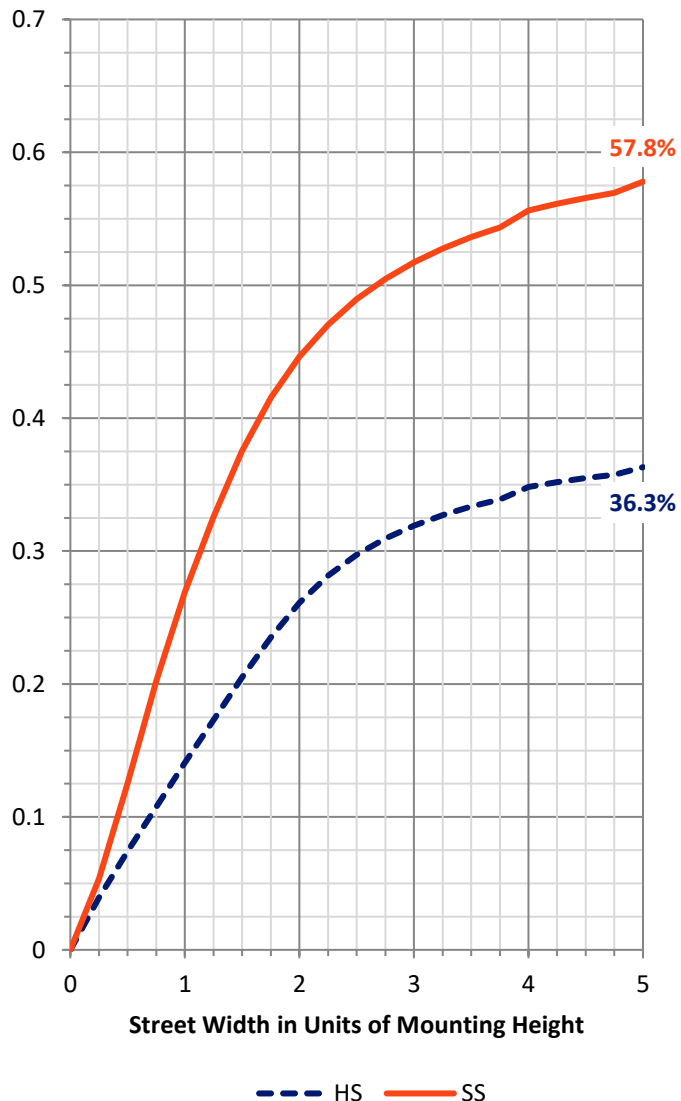
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2731.1	100.1	2831.2
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	4400.2	137.6	4537.8
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	7131.3	237.7	7369.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.3	0.1
10°-20°	40.1	0.5
20°-30°	124.3	1.7
30°-40°	266.6	3.6
40°-50°	499.5	6.8
50°-60°	1296.1	17.6
60°-70°	2374.3	32.2
70°-80°	1904.4	25.8
80°-90°	616.7	8.4
90°-100°	162.5	2.2
100°-110°	52.9	0.7
110°-120°	20.7	0.3
120°-130°	1.6	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°	7131.3	96.8
0°-180°	7369.0	100.0

**Coefficient of Utilization**



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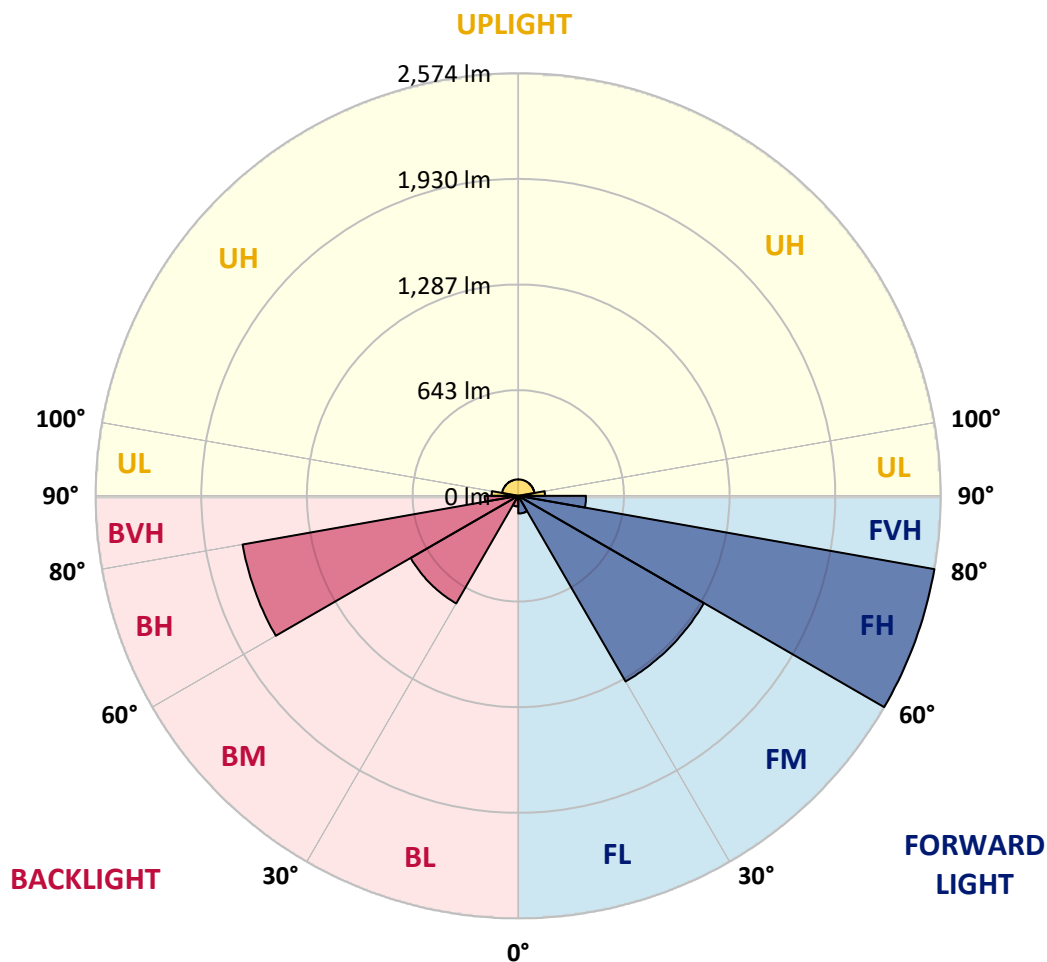
CATALOG NUMBER: GAT-CA6-LED-90-722-U-33-5-6-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.1	1.5			
FM (30°-60°)	1305.7	17.7			
FH (60°-80°)	2573.8	34.9			G2/5000
FVH (80°-90°)	412.6	5.6			G3/500
BL (0°-30°)	65.6	0.9	B0/110		
BM (30°-60°)	756.5	10.3	B1/1000		
BH (60°-80°)	1704.9	23.1	B3/2500		G3/2500
BVH (80°-90°)	204.1	2.8			G2/225
UL (90°-100°)	162.5	2.2		U3/500	
UH (100°-180°)	100.1	1.4		U3/500	

**BUG Rating: B3-U3-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	94.4	94.4	94.4	93.0	91.6	90.2	88.7	88.7	87.3	85.9	84.5
5°	102.8	101.4	100.0	97.2	95.8	95.8	94.4	94.4	94.4	93.0	91.6
7.5°	114.1	114.1	112.7	111.3	109.9	108.5	107.1	105.7	105.7	104.2	102.8
10°	129.6	129.6	129.6	128.2	128.2	126.8	124.0	122.6	119.7	118.3	114.1
12.5°	145.1	146.5	143.7	143.7	143.7	142.3	139.5	138.1	135.2	132.4	126.8
15°	160.6	159.2	157.8	156.4	159.2	159.2	157.8	157.8	152.1	147.9	138.1
17.5°	174.7	174.7	176.1	176.1	180.3	178.9	178.9	177.5	174.7	167.6	155.0
20°	197.2	198.6	198.6	198.6	212.7	218.4	219.8	221.2	216.9	202.9	177.5
22.5°	219.8	221.2	231.0	228.2	228.2	228.2	242.3	235.3	216.9	200.0	186.0
25°	297.2	301.5	304.3	314.1	325.4	356.4	405.7	390.2	362.0	304.3	256.4
27.5°	371.9	377.5	428.3	498.7	508.5	471.9	507.1	460.7	446.6	387.4	348.0
30°	405.7	415.6	502.9	550.8	567.7	519.8	570.5	481.8	477.6	435.3	401.5
32.5°	414.2	421.2	517.0	522.6	526.9	521.2	597.3	488.8	479.0	436.7	387.4
35°	401.5	409.9	474.7	442.3	443.7	543.8	686.0	526.9	481.8	408.5	353.6
37.5°	494.5	494.5	549.4	557.9	594.5	715.6	898.8	695.9	645.2	532.5	464.9
40°	563.5	570.5	657.9	690.3	695.9	798.7	1125.6	815.6	743.8	595.9	543.8
42.5°	656.5	655.1	735.4	757.9	773.4	811.4	1150.9	938.2	853.7	674.8	635.3
45°	672.0	694.5	767.8	742.4	762.1	859.3	1201.6	1111.5	998.8	824.1	742.4
47.5°	610.0	641.0	788.9	767.8	688.9	733.9	963.6	1141.1	1017.1	846.6	788.9
50°	657.9	674.8	748.0	733.9	628.3	780.4	1057.9	1429.8	1291.8	1007.2	859.3
52.5°	850.9	887.5	900.2	955.1	904.4	1167.8	1480.6	1811.6	1793.3	1458.0	1134.0
55°	1093.2	1146.7	1203.0	1411.5	1441.1	1834.2	2066.6	2420.2	2639.9	2306.1	1739.8
57.5°	1355.2	1431.3	1412.9	1715.8	1762.3	2485.0	2699.1	3527.4	4114.9	3661.3	2548.4
60°	1608.8	1659.5	1556.6	1822.9	1911.6	3128.8	3442.9	4593.8	5367.2	4884.0	3138.6
62.5°	1765.1	1797.5	1628.5	1896.1	2000.4	3352.8	3864.1	4713.6	5503.9	5136.2	3458.4
65°	1763.7	1755.3	1562.3	1794.7	1780.6	3095.0	3734.5	3961.3	4916.4	4854.4	3499.3
67.5°	1694.7	1697.5	1494.7	1679.2	1621.4	2728.7	3459.8	3351.3	4321.9	4405.1	3403.5
70°	1628.5	1662.3	1469.3	1629.9	1603.1	2624.4	3340.1	3016.1	4043.0	4200.8	3302.0
72.5°	1535.5	1567.9	1386.2	1527.1	1536.9	2416.0	3135.8	2632.9	3565.5	3755.6	2959.7
75°	1534.1	1574.9	1404.5	1528.5	1544.0	2297.6	3161.2	2500.5	3279.5	3534.5	2762.5
77.5°	1446.8	1483.4	1325.6	1441.1	1484.8	2079.3	3016.1	2335.7	2962.5	3248.5	2504.7
80°	1162.2	1211.5	1081.9	1158.0	1181.9	1559.5	2418.8	1913.0	2410.3	2696.3	2046.9
82.5°	794.5	839.6	753.7	810.0	841.0	1022.7	1672.1	1377.7	1638.3	1813.0	1281.9
85°	459.2	512.8	462.1	455.0	470.5	539.5	900.2	732.5	762.1	801.6	569.1
87.5°	288.8	297.2	271.9	273.3	276.1	295.8	409.9	326.8	360.6	408.5	345.1
90°	229.6	238.1	219.8	221.2	216.9	235.3	307.1	249.3	277.5	319.8	273.3
92.5°	198.6	204.3	191.6	194.4	191.6	205.7	256.4	205.7	228.2	262.0	224.0
95°	169.0	173.3	166.2	167.6	159.2	167.6	200.0	156.4	173.3	197.2	167.6
97.5°	135.2	139.5	135.2	135.2	126.8	131.0	153.6	121.1	132.4	147.9	126.8
100°	107.1	108.5	107.1	105.7	98.6	98.6	107.1	87.3	91.6	101.4	87.3
102.5°	81.7	83.1	81.7	80.3	71.8	67.6	67.6	56.3	59.2	62.0	54.9
105°	64.8	66.2	64.8	62.0	54.9	50.7	49.3	40.9	40.9	42.3	38.0
107.5°	53.5	53.5	53.5	50.7	46.5	40.9	36.6	29.6	29.6	31.0	29.6
110°	43.7	43.7	42.3	40.9	36.6	32.4	28.2	23.9	23.9	23.9	22.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	36.6	36.6	35.2	33.8	29.6	25.4	22.5	19.7	19.7	19.7	18.3
115°	31.0	31.0	29.6	28.2	25.4	21.1	18.3	15.5	15.5	15.5	15.5
117.5°	26.8	26.8	25.4	23.9	21.1	18.3	15.5	12.7	12.7	12.7	12.7
120°	23.9	22.5	21.1	19.7	16.9	15.5	12.7	11.3	11.3	11.3	9.9
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2.5°	84.5	84.5	83.1	83.1	83.1	81.7	81.7	83.1	83.1	83.1	83.1
5°	90.2	88.7	85.9	83.1	81.7	80.3	78.9	78.9	81.7	81.7	81.7
7.5°	101.4	100.0	95.8	93.0	90.2	87.3	85.9	84.5	85.9	87.3	87.3
10°	112.7	111.3	105.7	101.4	100.0	97.2	95.8	94.4	95.8	95.8	95.8
12.5°	124.0	121.1	116.9	111.3	108.5	107.1	105.7	104.2	104.2	104.2	104.2
15°	133.8	129.6	125.4	121.1	118.3	115.5	114.1	112.7	114.1	115.5	115.5
17.5°	149.3	145.1	135.2	128.2	126.8	124.0	122.6	122.6	124.0	125.4	125.4
20°	166.2	157.8	146.5	139.5	138.1	133.8	132.4	132.4	133.8	135.2	135.2
22.5°	180.3	174.7	157.8	147.9	146.5	145.1	146.5	146.5	147.9	149.3	149.3
25°	229.6	207.1	183.1	176.1	174.7	171.9	169.0	167.6	169.0	173.3	174.7
27.5°	309.9	269.1	224.0	208.5	208.5	211.3	216.9	219.8	214.1	211.3	212.7
30°	363.4	308.5	243.7	229.6	232.4	246.5	259.2	267.7	262.0	257.8	259.2
32.5°	349.4	298.6	252.2	249.3	257.8	269.1	276.1	280.3	291.6	295.8	301.5
35°	318.4	280.3	255.0	266.2	271.9	271.9	271.9	271.9	293.0	312.7	318.4
37.5°	388.8	324.0	302.9	307.1	302.9	298.6	302.9	314.1	332.5	348.0	352.2
40°	456.4	374.7	339.5	336.7	335.3	349.4	374.7	394.4	400.1	386.0	388.8
42.5°	531.1	424.0	378.9	383.2	394.4	417.0	445.2	445.2	445.2	432.5	436.7
45°	601.5	481.8	455.0	466.3	466.3	477.6	493.1	483.2	495.9	501.5	508.5
47.5°	684.6	559.3	500.1	490.2	491.6	514.2	519.8	515.6	524.0	514.2	514.2
50°	710.0	571.9	525.5	563.5	563.5	538.1	517.0	519.8	543.8	570.5	576.2
52.5°	903.0	708.6	666.3	705.8	722.7	679.0	679.0	684.6	690.3	710.0	715.6
55°	1351.0	1010.1	883.3	974.8	987.5	1014.3	1087.5	1076.3	1011.5	979.1	976.2
57.5°	2020.1	1498.9	1100.2	1229.8	1311.5	1421.4	1476.3	1443.9	1356.6	1327.0	1294.6
60°	2582.2	2052.5	1425.6	1651.0	1773.6	1791.9	1772.2	1775.0	1708.8	1729.9	1721.5
62.5°	2790.7	2518.8	1832.7	1969.4	1987.7	1931.4	1983.5	2103.2	1996.2	1932.8	1922.9
65°	2852.7	2692.1	1946.8	1858.1	1841.2	1831.3	2037.0	2237.0	1997.6	1849.6	1848.2
67.5°	2790.7	2514.6	1801.8	1655.2	1694.7	1775.0	2042.6	2117.3	1891.9	1728.5	1717.2
70°	2710.4	2228.6	1621.4	1494.7	1586.2	1703.1	1873.6	1844.0	1755.3	1610.2	1603.1
72.5°	2418.8	1931.4	1505.9	1400.3	1504.5	1538.3	1622.8	1610.2	1635.5	1544.0	1539.7
75°	2165.2	1773.6	1436.9	1312.9	1363.6	1358.0	1425.6	1441.1	1513.0	1473.5	1458.0
77.5°	1868.0	1542.5	1266.4	1122.7	1142.5	1141.1	1173.5	1183.3	1234.0	1236.9	1220.0
80°	1462.2	1208.7	988.9	845.2	848.0	822.7	826.9	825.5	835.4	846.6	831.1
82.5°	839.6	674.8	560.7	469.1	449.4	415.6	408.5	411.3	407.1	404.3	404.3
85°	411.3	319.8	294.4	263.4	252.2	243.7	247.9	256.4	260.6	252.2	247.9
87.5°	277.5	239.5	228.2	215.5	209.9	201.4	207.1	214.1	219.8	212.7	211.3
90°	219.8	190.2	187.4	184.5	180.3	173.3	178.9	187.4	191.6	186.0	183.1
92.5°	177.5	153.6	153.6	152.1	147.9	142.3	149.3	156.4	160.6	156.4	155.0
95°	136.6	118.3	122.6	119.7	115.5	114.1	118.3	124.0	126.8	124.0	124.0
97.5°	105.7	93.0	97.2	95.8	90.2	88.7	91.6	95.8	98.6	95.8	94.4
100°	71.8	66.2	71.8	71.8	66.2	63.4	66.2	70.4	71.8	71.8	70.4
102.5°	47.9	45.1	52.1	53.5	50.7	47.9	49.3	52.1	53.5	53.5	53.5
105°	33.8	33.8	40.9	42.3	39.4	36.6	39.4	40.9	40.9	40.9	40.9
107.5°	26.8	28.2	32.4	35.2	32.4	29.6	31.0	32.4	32.4	32.4	33.8
110°	22.5	22.5	26.8	29.6	26.8	25.4	25.4	25.4	25.4	26.8	29.6



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	18.3	19.7	22.5	23.9	22.5	21.1	21.1	21.1	21.1	22.5	26.8
115°	15.5	16.9	19.7	19.7	18.3	18.3	18.3	16.9	16.9	18.3	25.4
117.5°	12.7	14.1	15.5	15.5	15.5	14.1	14.1	14.1	14.1	16.9	26.8
120°	11.3	11.3	12.7	12.7	11.3	11.3	11.3	11.3	9.9	14.1	21.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)