

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: P588547

Luminaire Tested: **GAT-CA6-LED-90-730-U-33-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588547  
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-90-730-U-33-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8541 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

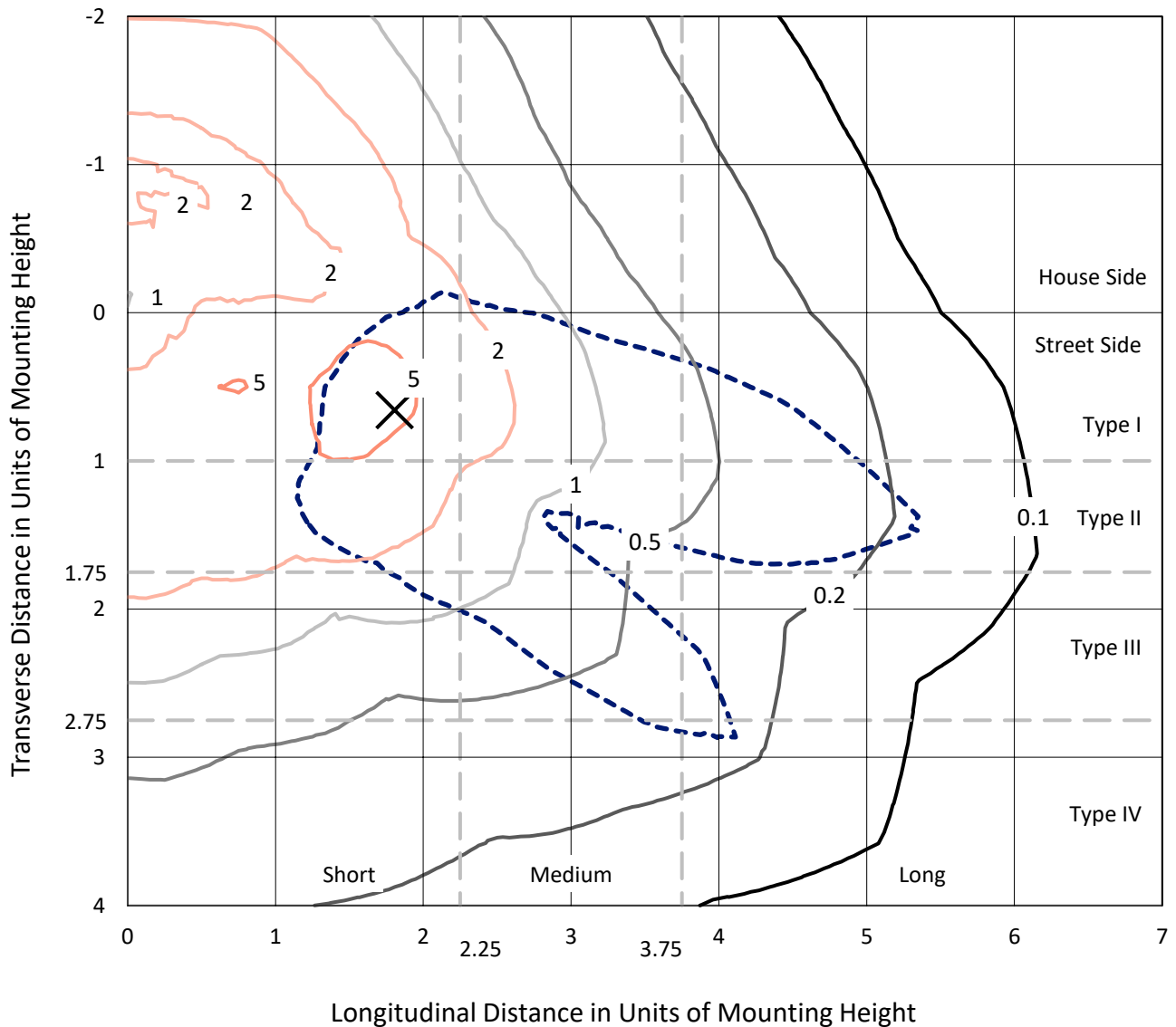
Input Watts (W): 93.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

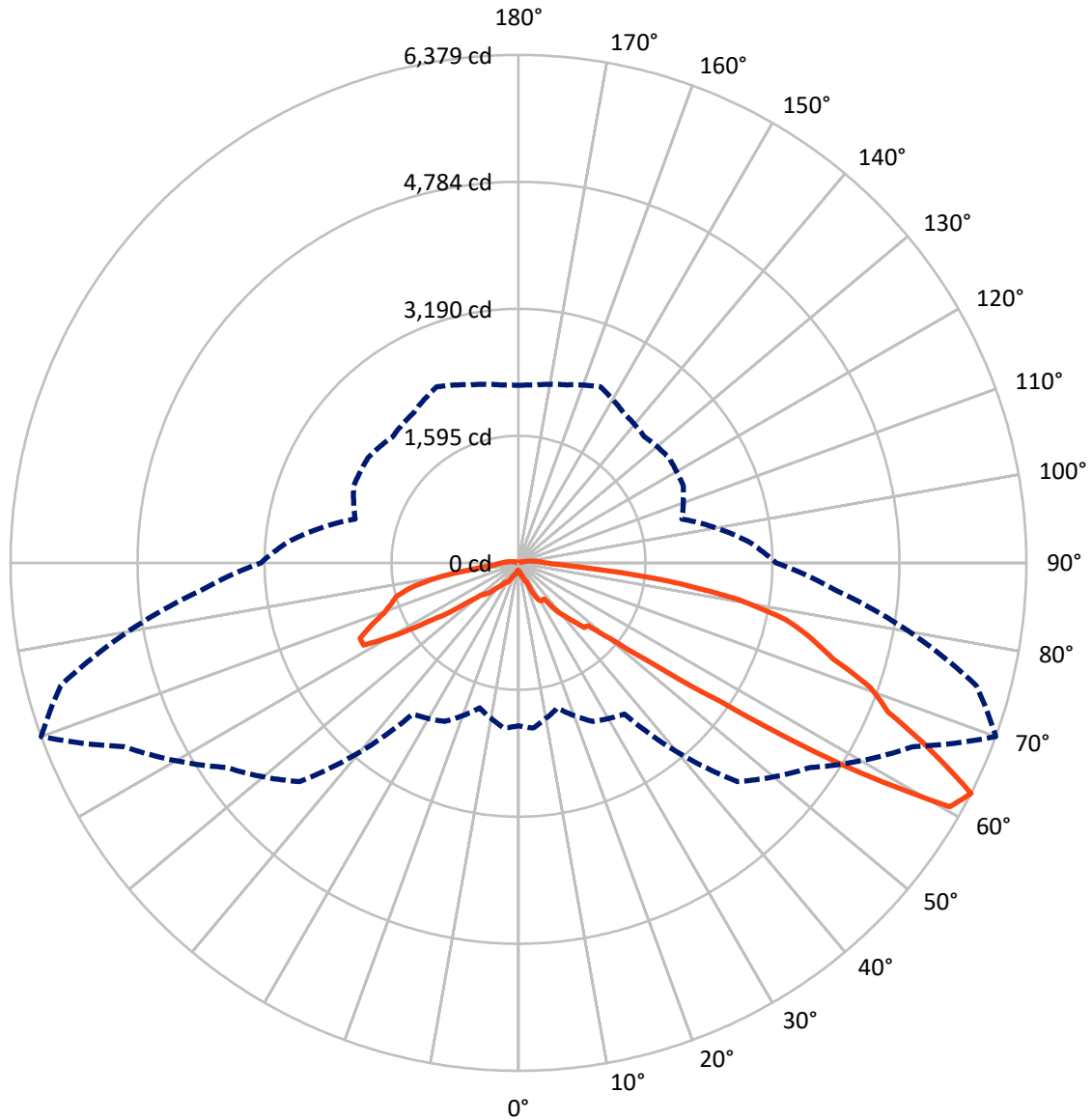
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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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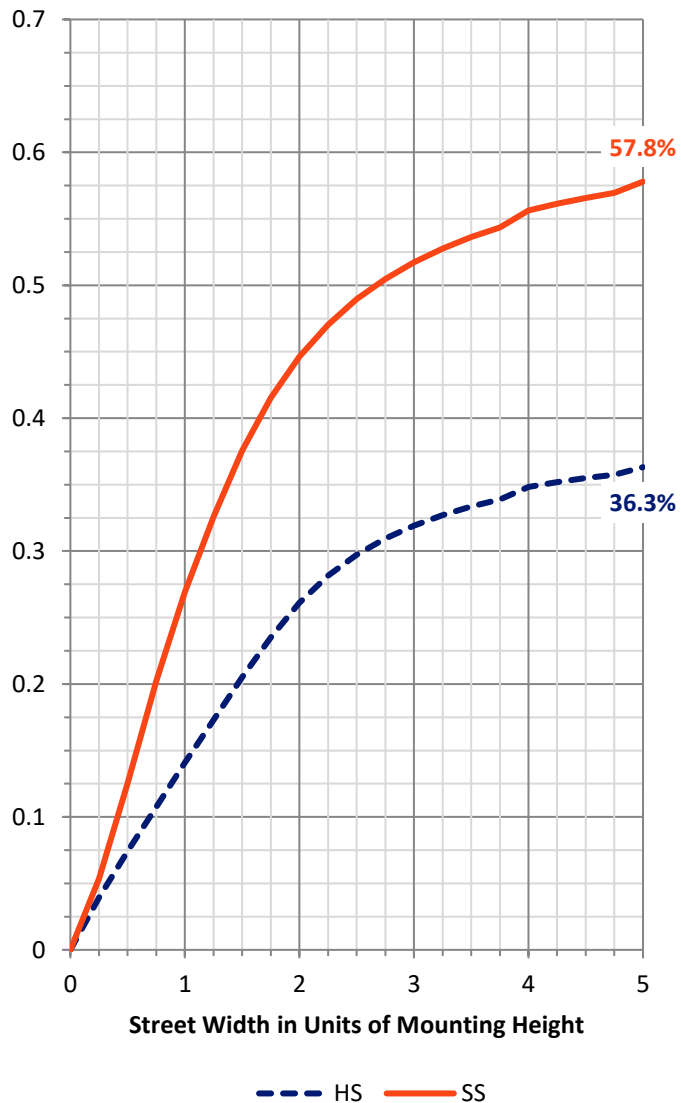
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3165.5	116.0	3281.5
	% Fixture	37.1	1.4	38.4
<b>Street Side</b>	Lumens	5100.0	159.5	5259.5
	% Fixture	59.7	1.9	61.6
<b>Total</b>	Lumens	8265.5	275.5	8541.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.8	0.1
10°-20°	46.5	0.5
20°-30°	144.1	1.7
30°-40°	309.0	3.6
40°-50°	578.9	6.8
50°-60°	1502.3	17.6
60°-70°	2751.9	32.2
70°-80°	2207.3	25.8
80°-90°	714.7	8.4
90°-100°	188.3	2.2
100°-110°	61.3	0.7
110°-120°	24.0	0.3
120°-130°	1.9	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°	8265.5	96.8
0°-180°	8541.0	100.0

**Coefficient of Utilization**



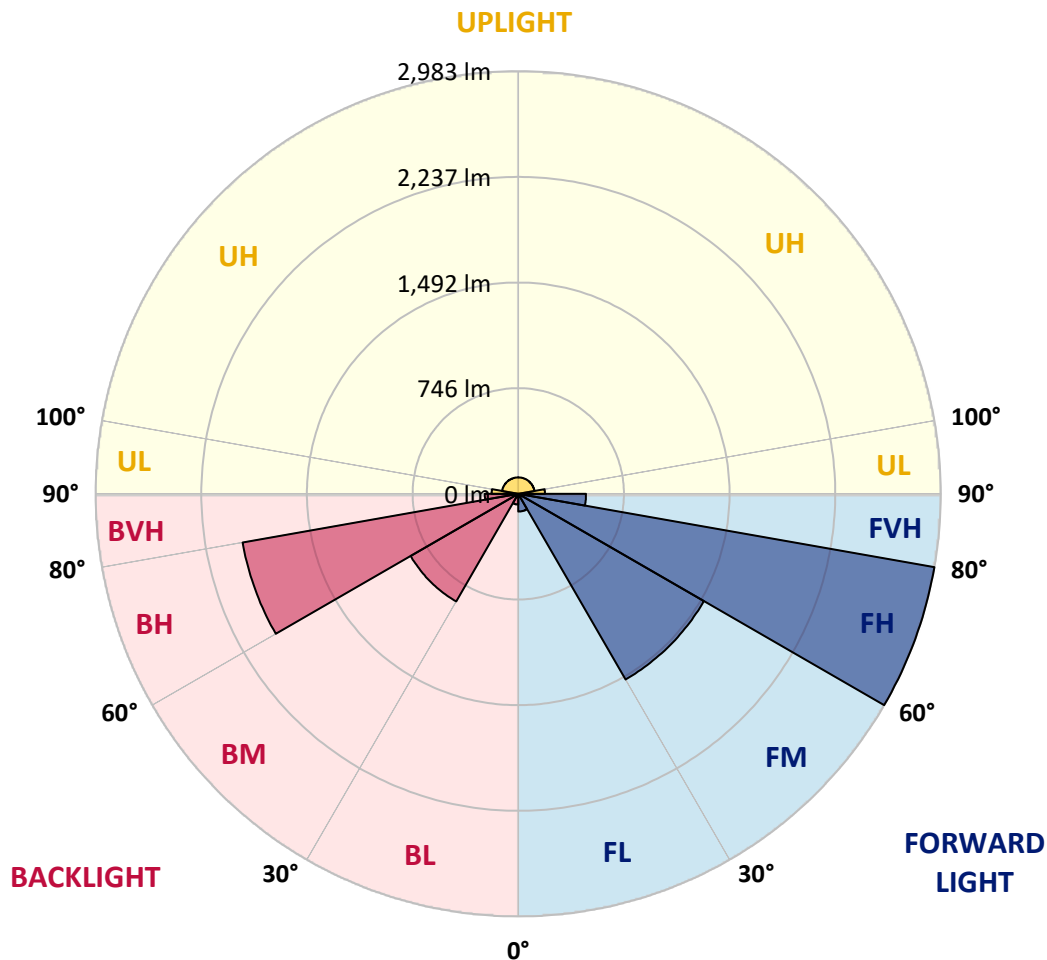
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.3	1.5			
FM (30°-60°)	1513.3	17.7			
FH (60°-80°)	2983.2	34.9			G2/5000
FVH (80°-90°)	478.2	5.6			G3/500
BL (0°-30°)	76.0	0.9	B0/110		
BM (30°-60°)	876.8	10.3	B1/1000		
BH (60°-80°)	1976.0	23.1	B3/2500		G3/2500
BVH (80°-90°)	236.6	2.8			G3/500
UL (90°-100°)	188.3	2.2		U3/500	
UH (100°-180°)	116.0	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°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
2.5°	109.4	109.4	109.4	107.8	106.1	104.5	102.9	102.9	101.2	99.6	98.0
5°	119.2	117.6	115.9	112.7	111.0	111.0	109.4	109.4	109.4	107.8	106.1
7.5°	132.3	132.3	130.6	129.0	127.4	125.7	124.1	122.5	122.5	120.8	119.2
10°	150.2	150.2	150.2	148.6	148.6	146.9	143.7	142.1	138.8	137.2	132.3
12.5°	168.2	169.8	166.5	166.5	166.5	164.9	161.6	160.0	156.7	153.5	146.9
15°	186.1	184.5	182.9	181.2	184.5	184.5	182.9	182.9	176.3	171.4	160.0
17.5°	202.5	202.5	204.1	204.1	209.0	207.4	207.4	205.7	202.5	194.3	179.6
20°	228.6	230.2	230.2	230.2	246.5	253.1	254.7	256.3	251.4	235.1	205.7
22.5°	254.7	256.3	267.8	264.5	264.5	264.5	280.8	272.7	251.4	231.9	215.5
25°	344.5	349.4	352.7	364.1	377.2	413.1	470.2	452.3	419.6	352.7	297.2
27.5°	431.1	437.6	496.4	578.0	589.4	547.0	587.8	533.9	517.6	449.0	403.3
30°	470.2	481.7	582.9	638.4	658.0	602.5	661.3	558.4	553.5	504.5	465.3
32.5°	480.0	488.2	599.2	605.8	610.7	604.1	692.3	566.6	555.1	506.2	449.0
35°	465.3	475.1	550.2	512.7	514.3	630.2	795.2	610.7	558.4	473.5	409.8
37.5°	573.1	573.1	636.8	646.6	689.0	829.4	1041.7	806.6	747.8	617.2	538.8
40°	653.1	661.3	762.5	800.1	806.6	925.8	1304.6	945.4	862.1	690.7	630.2
42.5°	760.9	759.2	852.3	878.4	896.4	940.5	1334.0	1087.4	989.5	782.1	736.4
45°	778.8	805.0	889.9	860.5	883.3	996.0	1392.8	1288.3	1157.6	955.2	860.5
47.5°	707.0	742.9	914.3	889.9	798.4	850.7	1116.8	1322.5	1178.9	981.3	914.3
50°	762.5	782.1	867.0	850.7	728.2	904.6	1226.2	1657.3	1497.2	1167.4	996.0
52.5°	986.2	1028.6	1043.3	1107.0	1048.2	1353.6	1716.0	2099.7	2078.5	1689.9	1314.4
55°	1267.0	1329.1	1394.4	1636.0	1670.3	2125.9	2395.3	2805.1	3059.8	2672.8	2016.5
57.5°	1570.7	1658.9	1637.7	1988.7	2042.6	2880.2	3128.4	4088.5	4769.3	4243.6	2953.7
60°	1864.6	1923.4	1804.2	2112.8	2215.7	3626.4	3990.5	5324.5	6220.8	5660.8	3637.8
62.5°	2045.9	2083.4	1887.5	2197.7	2318.5	3886.0	4478.7	5463.2	6379.2	5953.1	4008.4
65°	2044.2	2034.4	1810.7	2080.1	2063.8	3587.2	4328.5	4591.3	5698.4	5626.5	4055.8
67.5°	1964.2	1967.5	1732.4	1946.3	1879.3	3162.7	4010.1	3884.4	5009.3	5105.7	3944.8
70°	1887.5	1926.7	1703.0	1889.1	1858.1	3041.8	3871.3	3495.8	4686.0	4868.9	3827.2
72.5°	1779.7	1817.3	1606.6	1769.9	1781.3	2800.2	3634.5	3051.6	4132.5	4353.0	3430.4
75°	1778.1	1825.4	1627.9	1771.6	1789.5	2663.0	3663.9	2898.2	3801.1	4096.6	3201.9
77.5°	1676.9	1719.3	1536.4	1670.3	1720.9	2410.0	3495.8	2707.1	3433.7	3765.2	2903.1
80°	1347.0	1404.2	1254.0	1342.1	1369.9	1807.5	2803.5	2217.3	2793.7	3125.1	2372.4
82.5°	920.9	973.1	873.5	938.8	974.8	1185.4	1938.1	1596.8	1898.9	2101.4	1485.8
85°	532.3	594.3	535.5	527.4	545.3	625.4	1043.3	849.0	883.3	929.0	659.6
87.5°	334.7	344.5	315.1	316.8	320.0	342.9	475.1	378.8	418.0	473.5	400.0
90°	266.1	275.9	254.7	256.3	251.4	272.7	355.9	289.0	321.7	370.6	316.8
92.5°	230.2	236.8	222.1	225.3	222.1	238.4	297.2	238.4	264.5	303.7	259.6
95°	195.9	200.8	192.7	194.3	184.5	194.3	231.9	181.2	200.8	228.6	194.3
97.5°	156.7	161.6	156.7	156.7	146.9	151.8	178.0	140.4	153.5	171.4	146.9
100°	124.1	125.7	124.1	122.5	114.3	114.3	124.1	101.2	106.1	117.6	101.2
102.5°	94.7	96.3	94.7	93.1	83.3	78.4	78.4	65.3	68.6	71.8	63.7
105°	75.1	76.7	75.1	71.8	63.7	58.8	57.1	47.4	47.4	49.0	44.1
107.5°	62.0	62.0	62.0	58.8	53.9	47.4	42.5	34.3	34.3	35.9	34.3
110°	50.6	50.6	49.0	47.4	42.5	37.6	32.7	27.8	27.8	27.8	26.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	42.5	42.5	40.8	39.2	34.3	29.4	26.1	22.9	22.9	22.9	21.2
115°	35.9	35.9	34.3	32.7	29.4	24.5	21.2	18.0	18.0	18.0	18.0
117.5°	31.0	31.0	29.4	27.8	24.5	21.2	18.0	14.7	14.7	14.7	14.7
120°	27.8	26.1	24.5	22.9	19.6	18.0	14.7	13.1	13.1	13.1	11.4
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°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
2.5°	98.0	98.0	96.3	96.3	96.3	94.7	94.7	96.3	96.3	96.3	96.3
5°	104.5	102.9	99.6	96.3	94.7	93.1	91.4	91.4	94.7	94.7	94.7
7.5°	117.6	115.9	111.0	107.8	104.5	101.2	99.6	98.0	99.6	101.2	101.2
10°	130.6	129.0	122.5	117.6	115.9	112.7	111.0	109.4	111.0	111.0	111.0
12.5°	143.7	140.4	135.5	129.0	125.7	124.1	122.5	120.8	120.8	120.8	120.8
15°	155.1	150.2	145.3	140.4	137.2	133.9	132.3	130.6	132.3	133.9	133.9
17.5°	173.1	168.2	156.7	148.6	146.9	143.7	142.1	142.1	143.7	145.3	145.3
20°	192.7	182.9	169.8	161.6	160.0	155.1	153.5	153.5	155.1	156.7	156.7
22.5°	209.0	202.5	182.9	171.4	169.8	168.2	169.8	169.8	171.4	173.1	173.1
25°	266.1	240.0	212.3	204.1	202.5	199.2	195.9	194.3	195.9	200.8	202.5
27.5°	359.2	311.9	259.6	241.6	241.6	244.9	251.4	254.7	248.2	244.9	246.5
30°	421.3	357.6	282.5	266.1	269.4	285.7	300.4	310.2	303.7	298.8	300.4
32.5°	404.9	346.1	292.3	289.0	298.8	311.9	320.0	324.9	338.0	342.9	349.4
35°	369.0	324.9	295.5	308.6	315.1	315.1	315.1	315.1	339.6	362.5	369.0
37.5°	450.6	375.5	351.0	355.9	351.0	346.1	351.0	364.1	385.3	403.3	408.2
40°	529.0	434.3	393.5	390.2	388.6	404.9	434.3	457.2	463.7	447.4	450.6
42.5°	615.6	491.5	439.2	444.1	457.2	483.3	516.0	516.0	516.0	501.3	506.2
45°	697.2	558.4	527.4	540.4	540.4	553.5	571.5	560.0	574.7	581.3	589.4
47.5°	793.5	648.2	579.6	568.2	569.8	596.0	602.5	597.6	607.4	596.0	596.0
50°	822.9	662.9	609.0	653.1	653.1	623.7	599.2	602.5	630.2	661.3	667.8
52.5°	1046.6	821.3	772.3	818.0	837.6	787.0	787.0	793.5	800.1	822.9	829.4
55°	1565.8	1170.7	1023.7	1129.9	1144.6	1175.6	1260.5	1247.4	1172.3	1134.8	1131.5
57.5°	2341.4	1737.3	1275.2	1425.4	1520.1	1647.5	1711.1	1673.6	1572.4	1538.1	1500.5
60°	2992.9	2378.9	1652.4	1913.6	2055.7	2076.9	2054.0	2057.3	1980.5	2005.0	1995.2
62.5°	3234.5	2919.4	2124.2	2282.6	2303.8	2238.5	2298.9	2437.7	2313.6	2240.2	2228.7
65°	3306.4	3120.2	2256.5	2153.6	2134.0	2122.6	2361.0	2592.8	2315.3	2143.8	2142.2
67.5°	3234.5	2914.5	2088.3	1918.5	1964.2	2057.3	2367.5	2454.0	2192.8	2003.4	1990.3
70°	3141.4	2583.0	1879.3	1732.4	1838.5	1974.0	2171.6	2137.3	2034.4	1866.3	1858.1
72.5°	2803.5	2238.5	1745.4	1623.0	1743.8	1783.0	1880.9	1866.3	1895.6	1789.5	1784.6
75°	2509.6	2055.7	1665.4	1521.7	1580.5	1574.0	1652.4	1670.3	1753.6	1707.9	1689.9
77.5°	2165.1	1787.9	1467.9	1301.3	1324.2	1322.5	1360.1	1371.5	1430.3	1433.6	1414.0
80°	1694.8	1400.9	1146.2	979.7	982.9	953.5	958.4	956.8	968.2	981.3	963.3
82.5°	973.1	782.1	649.8	543.7	520.9	481.7	473.5	476.8	471.9	468.6	468.6
85°	476.8	370.6	341.2	305.3	292.3	282.5	287.4	297.2	302.1	292.3	287.4
87.5°	321.7	277.6	264.5	249.8	243.3	233.5	240.0	248.2	254.7	246.5	244.9
90°	254.7	220.4	217.2	213.9	209.0	200.8	207.4	217.2	222.1	215.5	212.3
92.5°	205.7	178.0	178.0	176.3	171.4	164.9	173.1	181.2	186.1	181.2	179.6
95°	158.4	137.2	142.1	138.8	133.9	132.3	137.2	143.7	146.9	143.7	143.7
97.5°	122.5	107.8	112.7	111.0	104.5	102.9	106.1	111.0	114.3	111.0	109.4
100°	83.3	76.7	83.3	83.3	76.7	73.5	76.7	81.6	83.3	83.3	81.6
102.5°	55.5	52.2	60.4	62.0	58.8	55.5	57.1	60.4	62.0	62.0	62.0
105°	39.2	39.2	47.4	49.0	45.7	42.5	45.7	47.4	47.4	47.4	47.4
107.5°	31.0	32.7	37.6	40.8	37.6	34.3	35.9	37.6	37.6	37.6	39.2
110°	26.1	26.1	31.0	34.3	31.0	29.4	29.4	29.4	29.4	31.0	34.3



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	21.2	22.9	26.1	27.8	26.1	24.5	24.5	24.5	24.5	26.1	31.0
115°	18.0	19.6	22.9	22.9	21.2	21.2	21.2	19.6	19.6	21.2	29.4
117.5°	14.7	16.3	18.0	18.0	18.0	16.3	16.3	16.3	16.3	19.6	31.0
120°	13.1	13.1	14.7	14.7	13.1	13.1	13.1	13.1	11.4	16.3	24.5
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)