

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P588408

Luminaire Tested: **GAT-CA6-LED-120-740-U-33-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)  
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-120-740-U-33-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16233 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5

Input Watts (W): 119.3  
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



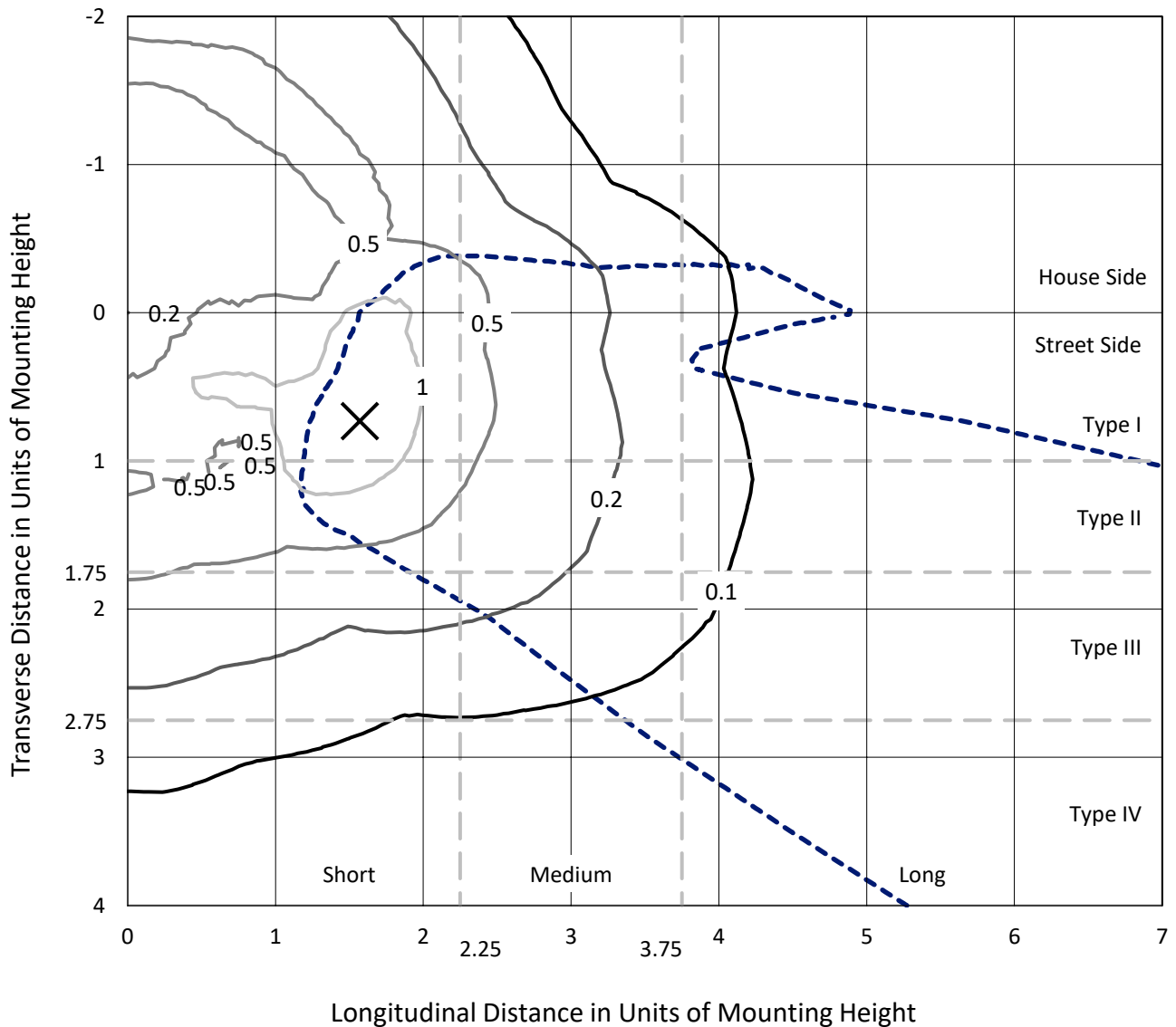


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
Type III - Short - Non-Cutoff

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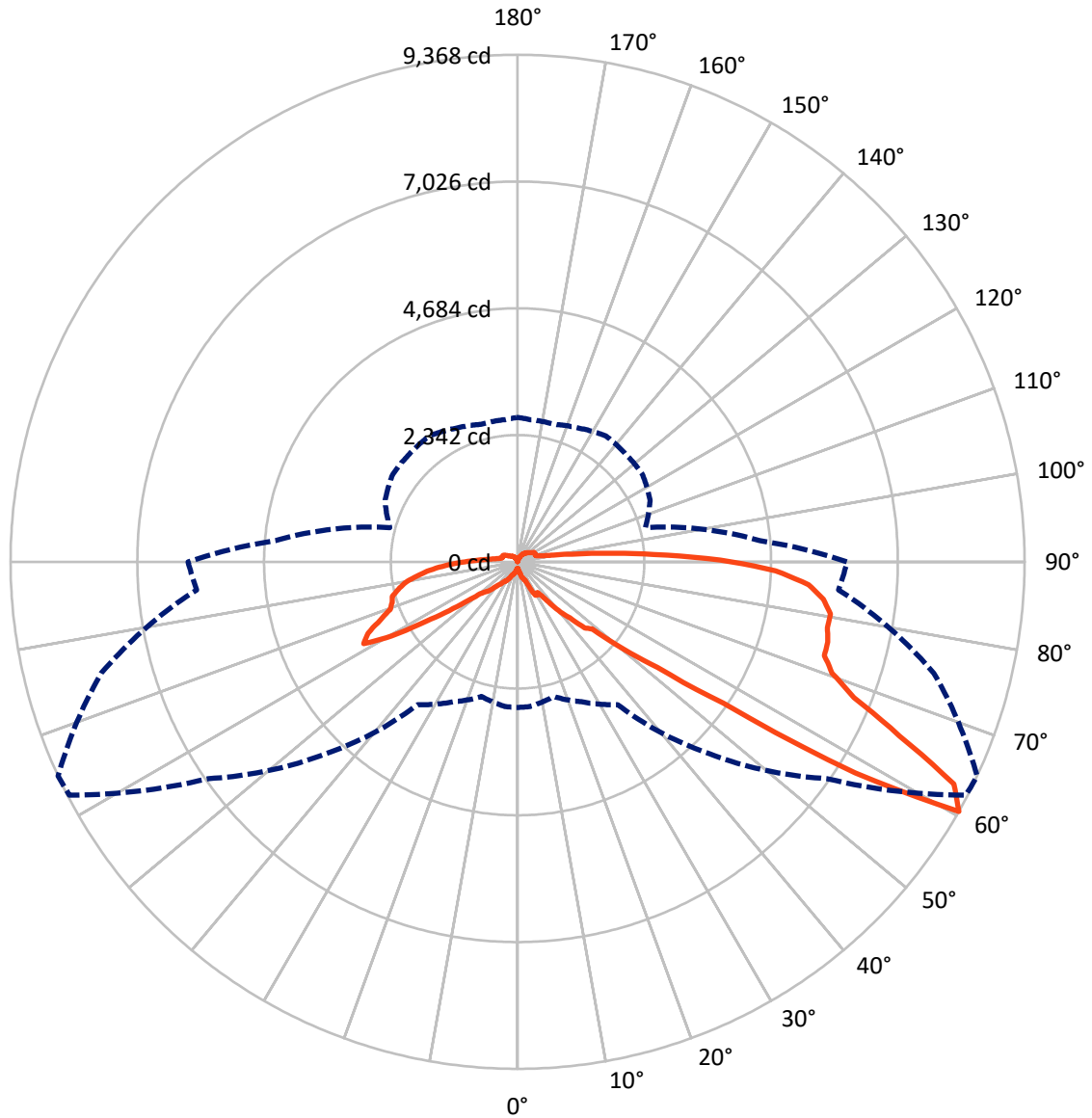
Scaled Data Report



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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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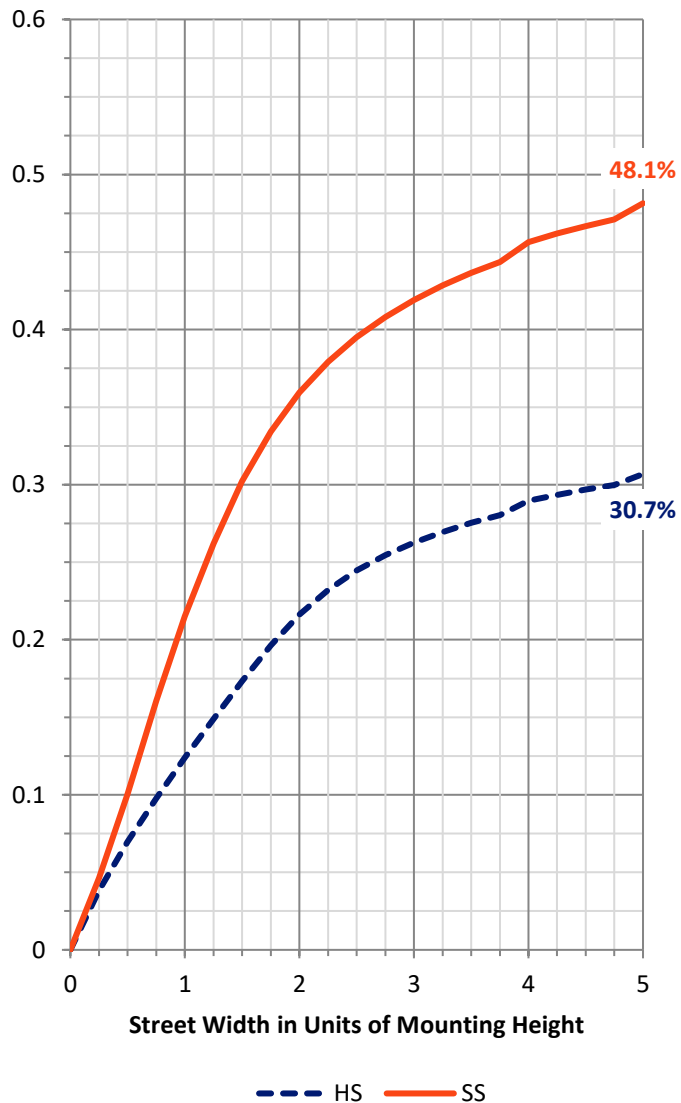
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5413.3	866.9	6280.2
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	8660.6	1292.2	9952.8
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	14073.9	2159.1	16233.0
	% Fixture	86.7	13.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.6	0.1
10°-20°	69.3	0.4
20°-30°	198.3	1.2
30°-40°	427.0	2.6
40°-50°	807.9	5.0
50°-60°	2256.9	13.9
60°-70°	4023.7	24.8
70°-80°	3522.8	21.7
80°-90°	2752.5	17.0
90°-100°	1040.6	6.4
100°-110°	357.9	2.2
110°-120°	292.7	1.8
120°-130°	196.6	1.2
130°-140°	134.9	0.8
140°-150°	84.8	0.5
150°-160°	39.3	0.2
160°-170°	11.1	0.1
170°-180°	1.0	0.0
0°-90°	14073.9	86.7
0°-180°	16233.0	100.0

**Coefficient of Utilization**



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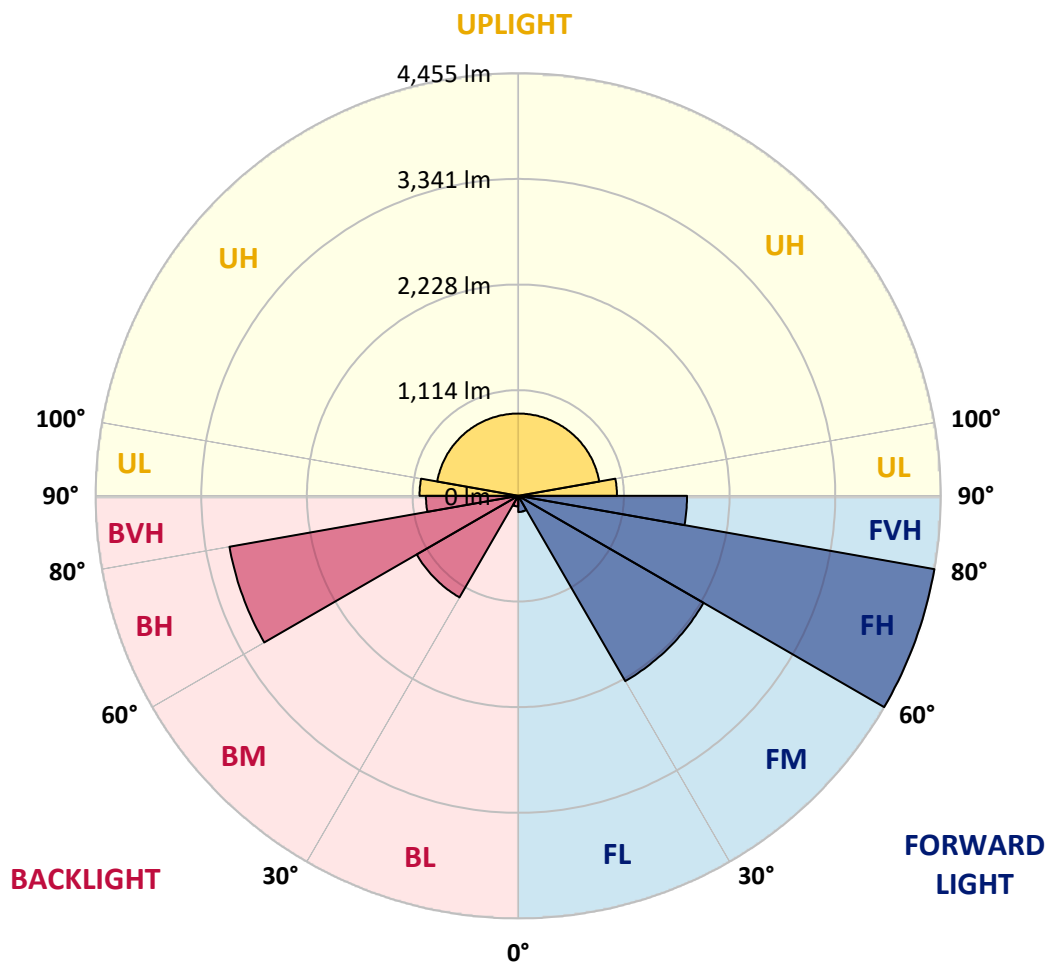
CATALOG NUMBER: GAT-CA6-LED-120-740-U-33-5-X-X

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.0	1.1			
FM	(30°-60°)	2255.4	13.9			
FH	(60°-80°)	4455.1	27.4			G2/5000
FVH	(80°-90°)	1779.1	11.0			G5
BL	(0°-30°)	112.1	0.7	B1/500		
BM	(30°-60°)	1236.4	7.6	B2/2500		
BH	(60°-80°)	3091.4	19.0	B4/5000		G4/5000
BVH	(80°-90°)	973.4	6.0			G5
UL	(90°-100°)	1040.6	6.4		U5	
UH	(100°-180°)	866.9	5.3		U4/1000	

**BUG Rating: B4-U5-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2
2.5°	143.1	138.9	134.7	134.7	132.6	130.5	130.5	126.3	128.4	126.3	126.3
5°	168.4	166.3	162.1	164.2	159.9	157.8	157.8	155.7	153.6	151.5	145.2
7.5°	195.7	195.7	197.8	199.9	193.6	187.3	185.2	181.0	181.0	178.9	174.7
10°	225.2	223.1	214.7	214.7	210.5	206.2	208.4	206.2	206.2	206.2	197.8
12.5°	233.6	231.5	225.2	225.2	225.2	223.1	231.5	229.4	231.5	229.4	216.8
15°	263.1	261.0	258.9	261.0	269.4	286.2	307.3	298.9	301.0	296.7	250.4
17.5°	275.7	282.0	286.2	288.3	296.7	296.7	301.0	298.9	307.3	313.6	286.2
20°	319.9	315.7	319.9	334.6	355.7	357.8	351.5	351.5	355.7	357.8	305.2
22.5°	338.8	336.7	353.6	340.9	340.9	351.5	389.3	376.7	376.7	372.5	328.3
25°	439.9	448.3	465.1	486.2	536.7	551.4	593.5	547.2	553.5	488.3	416.7
27.5°	528.3	534.6	633.5	721.9	761.9	740.8	776.6	690.3	698.7	707.1	608.2
30°	555.6	568.2	711.3	776.6	829.2	787.1	833.4	719.8	713.5	761.9	721.9
32.5°	534.6	547.2	698.7	726.1	780.8	936.5	877.6	694.5	675.6	698.7	747.1
35°	587.2	595.6	686.1	620.9	671.4	1309.1	1149.1	810.3	772.4	644.0	715.6
37.5°	705.0	705.0	812.4	858.7	896.6	1544.8	1509.0	1008.1	978.6	753.4	827.1
40°	854.5	850.3	982.8	1014.4	1031.2	1399.5	1824.7	1285.9	1220.7	886.0	1077.5
42.5°	945.0	936.5	1043.9	1077.5	1077.5	1184.9	2064.6	1565.8	1414.3	1033.4	1317.5
45°	980.7	989.2	1128.1	1086.0	1117.5	1216.4	2321.4	1953.1	1740.5	1212.2	1527.9
47.5°	888.1	900.8	1100.7	1104.9	945.0	972.3	2081.4	2028.8	1854.1	1298.5	1595.3
50°	1090.2	1098.6	1170.1	1121.7	1043.9	1231.2	2479.2	2607.6	2531.8	1607.9	1683.7
52.5°	1496.4	1534.2	1601.6	1643.7	1620.5	2068.8	3325.2	3302.1	3239.0	2414.0	2298.2
55°	1938.3	1969.9	2064.6	2319.3	2512.9	3097.9	4135.5	4619.6	4615.4	3920.8	3582.0
57.5°	2340.3	2342.4	2355.0	2668.6	2967.5	4045.0	5417.2	7195.6	7355.5	6263.2	5128.9
60°	2689.7	2683.3	2576.0	2855.9	3220.0	5015.2	6983.0	9335.9	9367.5	7963.7	5949.7
62.5°	2784.4	2765.4	2609.7	2870.7	3182.1	5034.2	7382.9	9081.3	9045.5	8083.7	6057.0
65°	2702.3	2683.3	2485.5	2719.1	2866.4	4575.4	6818.9	7810.1	7751.2	7385.0	5766.6
67.5°	2580.2	2592.8	2397.1	2576.0	2677.0	4291.2	6225.4	6719.9	6703.1	6882.0	5524.5
70°	2403.4	2414.0	2235.1	2456.0	2603.4	4110.3	5657.1	6193.8	6164.3	6427.4	5168.9
72.5°	2409.7	2441.3	2228.8	2395.0	2548.7	3861.9	5400.4	6012.8	5926.5	5966.5	4741.6
75°	2426.6	2468.7	2243.5	2392.9	2536.0	3771.4	5370.9	6027.5	5918.1	5800.2	4579.6
77.5°	2432.9	2493.9	2251.9	2416.1	2540.2	3647.2	5303.6	5953.9	5850.7	5640.3	4388.1
80°	2382.4	2447.6	2216.1	2418.2	2512.9	3401.0	5133.1	5941.2	5863.4	5619.2	4310.2
82.5°	2281.4	2346.6	2146.7	2312.9	2460.3	3150.6	4893.2	5695.0	5690.8	5417.2	4146.0
85°	2060.4	2131.9	1980.4	2134.0	2315.0	2818.0	4409.1	5276.2	5391.9	5171.0	3925.0
87.5°	1847.8	1919.4	1839.4	1925.7	2108.8	2449.7	3788.3	4554.3	4771.1	4588.0	3371.5
90°	1605.8	1679.5	1614.2	1580.5	1727.9	1955.2	3028.5	3542.0	3746.2	3634.6	2481.3
92.5°	1285.9	1349.0	1288.0	1210.1	1298.5	1435.3	2249.8	2479.2	2527.6	2420.3	1626.8
95°	972.3	1018.6	963.9	886.0	896.6	982.8	1551.1	1624.7	1612.1	1483.7	1033.4
97.5°	675.6	702.9	667.2	612.4	631.4	686.1	1027.0	1018.6	1018.6	907.1	675.6
100°	469.3	479.8	463.0	437.8	452.5	488.3	690.3	688.2	667.2	612.4	492.5
102.5°	372.5	374.6	357.8	340.9	332.5	366.2	498.8	496.7	500.9	475.6	385.1
105°	328.3	326.2	311.5	296.7	279.9	313.6	395.7	412.5	410.4	389.3	330.4
107.5°	301.0	298.9	284.1	271.5	256.8	286.2	343.0	366.2	364.1	362.0	311.5
110°	279.9	277.8	265.2	252.6	239.9	273.6	322.0	357.8	357.8	357.8	315.7

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	265.2	265.2	254.7	244.1	233.6	271.5	309.4	351.5	351.5	362.0	330.4
115°	256.8	254.7	246.2	239.9	231.5	273.6	305.2	347.3	349.4	364.1	328.3
117.5°	250.4	248.3	242.0	233.6	229.4	269.4	307.3	355.7	353.6	376.7	322.0
120°	239.9	235.7	227.3	218.9	214.7	248.3	298.9	345.2	340.9	351.5	296.7
122.5°	231.5	218.9	204.1	197.8	197.8	225.2	279.9	311.5	307.3	298.9	267.3
125°	212.6	199.9	187.3	185.2	187.3	210.5	267.3	286.2	288.3	282.0	252.6
127.5°	191.5	183.1	176.8	176.8	181.0	206.2	263.1	275.7	275.7	263.1	239.9
130°	181.0	178.9	174.7	174.7	183.1	208.4	256.8	261.0	261.0	244.1	233.6
132.5°	176.8	172.6	168.4	168.4	176.8	202.0	239.9	248.3	246.2	229.4	221.0
135°	168.4	166.3	162.1	162.1	172.6	197.8	225.2	233.6	231.5	210.5	204.1
137.5°	164.2	159.9	159.9	159.9	170.5	195.7	212.6	218.9	216.8	195.7	189.4
140°	157.8	155.7	151.5	151.5	166.3	189.4	199.9	202.0	199.9	183.1	176.8
142.5°	147.3	145.2	143.1	147.3	162.1	178.9	187.3	187.3	185.2	174.7	166.3
145°	141.0	138.9	136.8	147.3	159.9	168.4	176.8	170.5	170.5	164.2	155.7
147.5°	134.7	132.6	132.6	141.0	151.5	151.5	157.8	155.7	157.8	155.7	147.3
150°	122.1	120.0	120.0	126.3	128.4	128.4	134.7	134.7	134.7	134.7	128.4
152.5°	107.3	105.2	107.3	109.4	109.4	109.4	113.6	115.8	115.8	113.6	111.5
155°	92.6	92.6	92.6	94.7	94.7	92.6	98.9	98.9	98.9	98.9	96.8
157.5°	82.1	82.1	82.1	82.1	82.1	80.0	84.2	84.2	86.3	84.2	84.2
160°	71.6	69.5	69.5	69.5	69.5	67.3	69.5	69.5	69.5	71.6	71.6
162.5°	56.8	54.7	54.7	54.7	54.7	50.5	54.7	52.6	54.7	54.7	56.8
165°	46.3	44.2	44.2	44.2	42.1	40.0	42.1	40.0	40.0	40.0	42.1
167.5°	35.8	35.8	33.7	35.8	33.7	29.5	29.5	27.4	27.4	27.4	27.4
170°	27.4	25.3	23.2	25.3	23.2	18.9	18.9	16.8	16.8	14.7	14.7
172.5°	18.9	16.8	14.7	16.8	14.7	10.5	10.5	6.3	6.3	6.3	6.3
175°	16.8	14.7	12.6	14.7	12.6	8.4	6.3	4.2	4.2	4.2	4.2
177.5°	16.8	14.7	12.6	14.7	12.6	8.4	6.3	4.2	4.2	4.2	4.2
180°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2
2.5°	126.3	124.2	122.1	126.3	124.2	126.3	128.4	130.5	130.5	128.4	128.4
5°	145.2	143.1	138.9	136.8	132.6	132.6	132.6	136.8	136.8	134.7	136.8
7.5°	172.6	168.4	162.1	157.8	151.5	151.5	149.4	153.6	155.7	151.5	153.6
10°	193.6	191.5	183.1	176.8	170.5	168.4	168.4	170.5	170.5	168.4	168.4
12.5°	212.6	208.4	199.9	193.6	185.2	183.1	183.1	185.2	185.2	183.1	183.1
15°	239.9	227.3	218.9	212.6	204.1	202.0	199.9	202.0	204.1	199.9	199.9
17.5°	277.8	263.1	244.1	227.3	218.9	223.1	225.2	227.3	225.2	218.9	218.9
20°	298.9	290.4	265.2	252.6	242.0	242.0	242.0	242.0	242.0	239.9	242.0
22.5°	313.6	301.0	269.4	261.0	254.7	258.9	263.1	265.2	265.2	263.1	263.1
25°	380.9	334.6	303.1	296.7	288.3	290.4	286.2	286.2	288.3	286.2	290.4
27.5°	524.0	448.3	376.7	351.5	345.2	345.2	349.4	349.4	349.4	349.4	347.3
30°	629.3	540.9	423.0	389.3	385.1	404.1	414.6	423.0	418.8	412.5	412.5
32.5°	646.1	549.3	431.4	418.8	429.3	444.1	454.6	460.9	467.2	465.1	463.0
35°	610.3	507.2	425.1	442.0	450.4	458.8	460.9	456.7	475.6	484.1	486.2
37.5°	681.9	568.2	494.6	507.2	496.7	488.3	492.5	494.6	519.8	532.5	545.1
40°	871.3	686.1	561.9	555.6	549.3	568.2	593.5	606.1	604.0	595.6	597.7
42.5°	1054.4	801.8	633.5	631.4	629.3	662.9	702.9	700.8	681.9	667.2	667.2
45°	1241.7	913.4	747.1	749.2	745.0	757.7	768.2	759.8	761.9	766.1	770.3
47.5°	1357.5	1014.4	818.7	812.4	785.0	810.3	839.7	820.8	814.5	804.0	808.2
50°	1384.8	1039.7	860.8	907.1	881.8	862.9	831.3	818.7	841.8	858.7	871.3
52.5°	1799.4	1283.8	1075.4	1149.1	1115.4	1048.1	1041.8	1020.7	1046.0	1048.1	1062.8
55°	3015.9	2058.3	1481.6	1553.2	1555.3	1532.1	1637.4	1578.4	1525.8	1502.7	1494.3
57.5°	4754.3	3182.1	1917.3	2007.8	2094.1	2176.1	2319.3	2199.3	2047.8	2028.8	2049.9
60°	6088.6	4493.3	2445.5	2700.2	2815.9	2820.1	2839.1	2721.2	2628.6	2637.0	2666.5
62.5°	6374.8	5587.7	3114.8	3220.0	3230.5	3152.7	3186.3	3262.1	3131.6	3028.5	3055.9
65°	6183.3	6021.2	3333.7	3060.1	3043.2	3055.9	3285.3	3495.7	3232.6	2971.7	2971.7
67.5°	5812.9	5690.8	3110.6	2752.8	2799.1	2942.2	3232.6	3337.9	3058.0	2780.2	2780.2
70°	5417.2	5173.1	2860.1	2508.7	2622.3	2788.6	2978.0	2986.4	2822.2	2624.4	2611.8
72.5°	4990.0	4769.0	2752.8	2437.1	2489.7	2519.2	2622.3	2687.6	2668.6	2540.2	2538.1
75°	4863.7	4684.8	2750.7	2403.4	2371.9	2361.3	2432.9	2573.9	2639.1	2563.4	2567.6
77.5°	4672.2	4564.8	2622.3	2262.4	2228.8	2228.8	2266.6	2380.3	2479.2	2447.6	2458.2
80°	4539.6	4377.5	2426.6	2108.8	2062.5	2068.8	2073.0	2150.9	2243.5	2247.7	2247.7
82.5°	4284.9	3979.8	2129.8	1879.4	1847.8	1856.2	1841.5	1885.7	1911.0	1942.5	1936.2
85°	3866.1	3434.7	1799.4	1628.9	1578.4	1561.6	1549.0	1551.1	1565.8	1559.5	1534.2
87.5°	3239.0	2723.3	1435.3	1336.4	1277.5	1235.4	1218.6	1197.5	1195.4	1172.3	1180.7
90°	2390.8	1868.9	1064.9	1029.1	987.0	942.9	919.7	898.7	881.8	858.7	850.3
92.5°	1559.5	1203.8	778.7	759.8	732.4	707.1	696.6	686.1	681.9	662.9	669.3
95°	974.4	814.5	585.1	564.0	549.3	543.0	545.1	547.2	543.0	521.9	528.3
97.5°	650.3	589.3	456.7	442.0	427.2	425.1	427.2	431.4	433.5	418.8	423.0
100°	479.8	452.5	374.6	364.1	351.5	347.3	349.4	353.6	355.7	343.0	345.2
102.5°	380.9	368.3	324.1	319.9	305.2	301.0	305.2	307.3	309.4	301.0	301.0
105°	334.6	334.6	298.9	296.7	286.2	282.0	284.1	286.2	288.3	279.9	279.9
107.5°	322.0	324.1	288.3	290.4	284.1	282.0	286.2	290.4	288.3	282.0	279.9
110°	332.5	336.7	288.3	294.6	296.7	301.0	309.4	311.5	311.5	307.3	309.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	343.0	349.4	284.1	298.9	313.6	324.1	338.8	347.3	343.0	340.9	343.0
115°	334.6	338.8	265.2	288.3	315.7	330.4	334.6	334.6	324.1	324.1	326.2
117.5°	324.1	332.5	246.2	265.2	284.1	296.7	294.6	288.3	275.7	271.5	284.1
120°	301.0	326.2	235.7	239.9	242.0	246.2	239.9	233.6	223.1	221.0	229.4
122.5°	277.8	301.0	216.8	212.6	210.5	210.5	208.4	206.2	199.9	202.0	210.5
125°	258.9	271.5	197.8	191.5	189.4	191.5	191.5	191.5	187.3	183.1	183.1
127.5°	244.1	248.3	187.3	178.9	176.8	176.8	176.8	178.9	176.8	170.5	170.5
130°	235.7	233.6	181.0	166.3	164.2	166.3	166.3	168.4	164.2	159.9	159.9
132.5°	218.9	214.7	172.6	157.8	155.7	157.8	157.8	157.8	153.6	149.4	149.4
135°	199.9	195.7	162.1	147.3	145.2	147.3	147.3	149.4	145.2	141.0	141.0
137.5°	185.2	181.0	151.5	138.9	136.8	136.8	138.9	138.9	136.8	132.6	132.6
140°	172.6	168.4	141.0	130.5	126.3	128.4	128.4	128.4	126.3	122.1	122.1
142.5°	162.1	159.9	130.5	120.0	115.8	117.9	117.9	120.0	115.8	111.5	111.5
145°	153.6	149.4	122.1	109.4	107.3	107.3	107.3	109.4	105.2	101.0	101.0
147.5°	145.2	141.0	111.5	98.9	96.8	96.8	96.8	96.8	94.7	90.5	88.4
150°	128.4	126.3	103.1	90.5	86.3	86.3	86.3	84.2	80.0	75.8	75.8
152.5°	109.4	107.3	90.5	80.0	75.8	75.8	73.7	73.7	69.5	67.3	65.2
155°	94.7	94.7	82.1	71.6	67.3	65.2	63.1	63.1	61.0	58.9	56.8
157.5°	84.2	82.1	73.7	65.2	56.8	56.8	54.7	54.7	52.6	50.5	48.4
160°	71.6	71.6	63.1	54.7	48.4	46.3	46.3	44.2	42.1	40.0	40.0
162.5°	56.8	56.8	50.5	44.2	37.9	37.9	35.8	35.8	33.7	31.6	29.5
165°	40.0	40.0	37.9	33.7	29.5	27.4	27.4	27.4	25.3	23.2	23.2
167.5°	27.4	27.4	25.3	23.2	21.0	18.9	21.0	21.0	18.9	16.8	16.8
170°	14.7	14.7	12.6	12.6	10.5	10.5	12.6	14.7	12.6	10.5	8.4
172.5°	6.3	6.3	6.3	6.3	4.2	6.3	8.4	10.5	8.4	6.3	6.3
175°	4.2	4.2	6.3	6.3	4.2	6.3	8.4	10.5	8.4	6.3	6.3
177.5°	4.2	4.2	6.3	6.3	4.2	6.3	8.4	10.5	8.4	6.3	6.3
180°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4

(END OF REPORT)