

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: STREETWORKS

Report Number: P588570

Luminaire Tested: **ARC-CA6-100-740-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-100-740-U-33-X-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

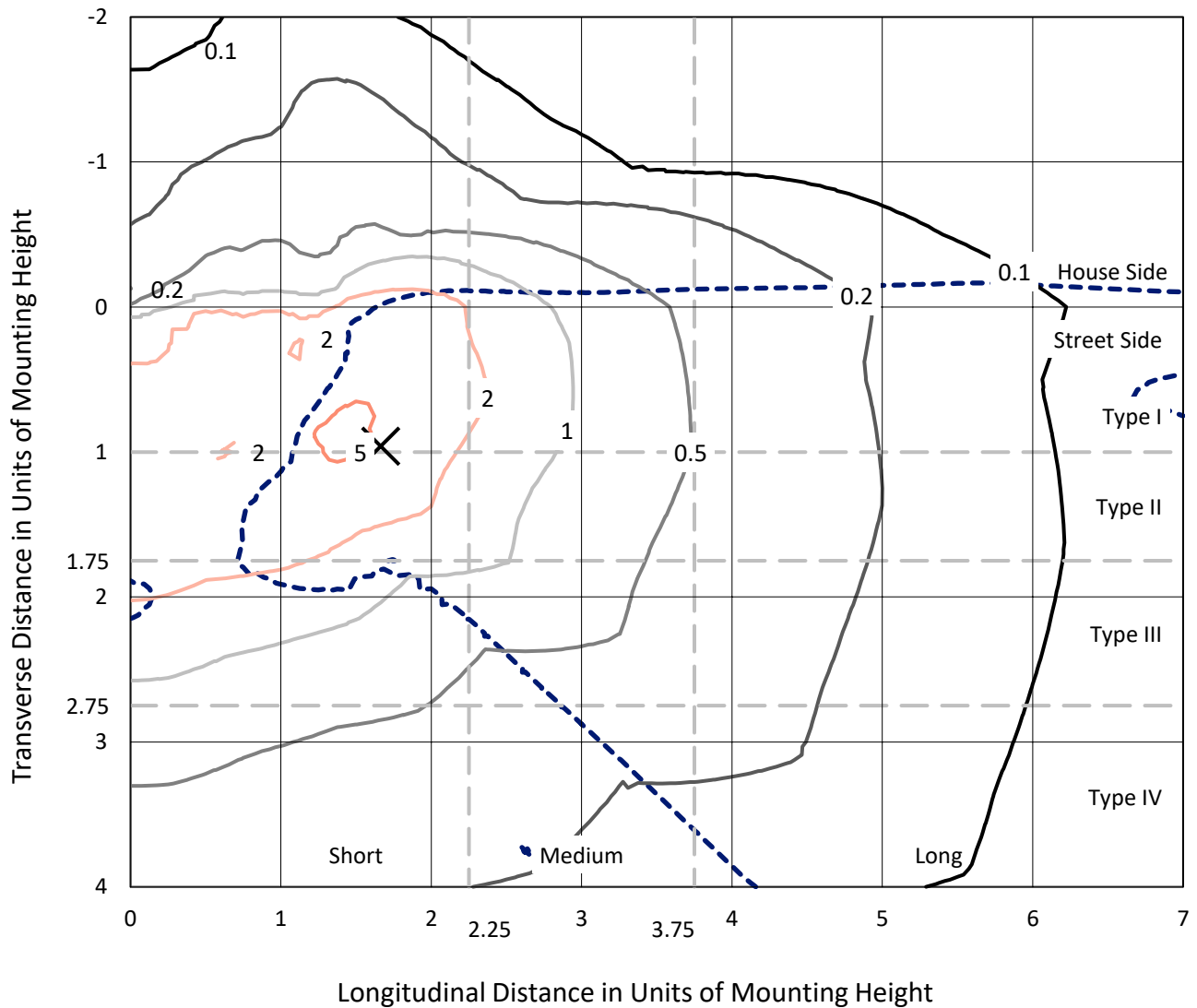
Lumens per Lamp: N/A  
Luminaire Lumens: 6880 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G5  
  
Input Watts (W): 52.2  
Input Voltage (V): 120  
Input 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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

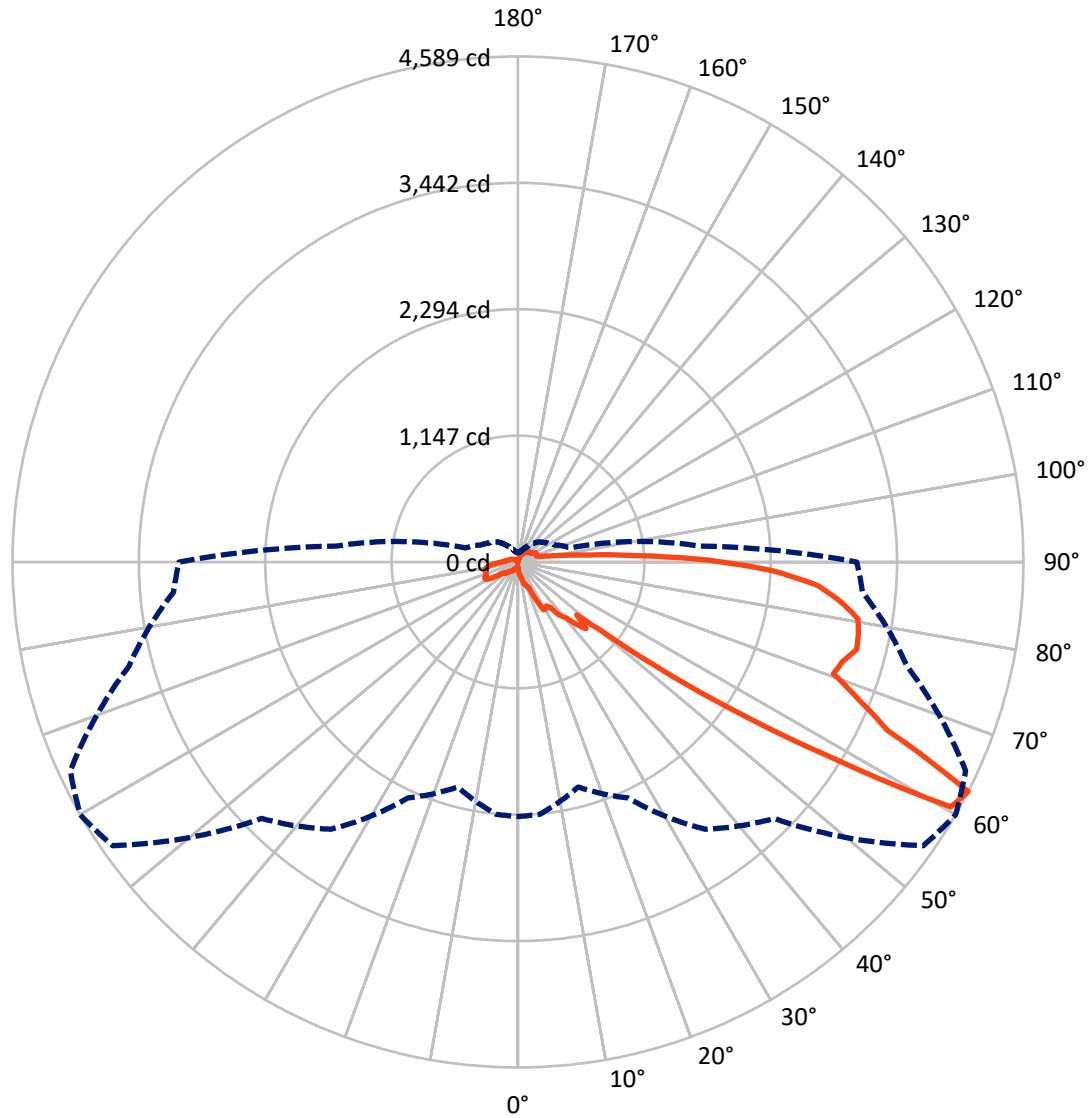
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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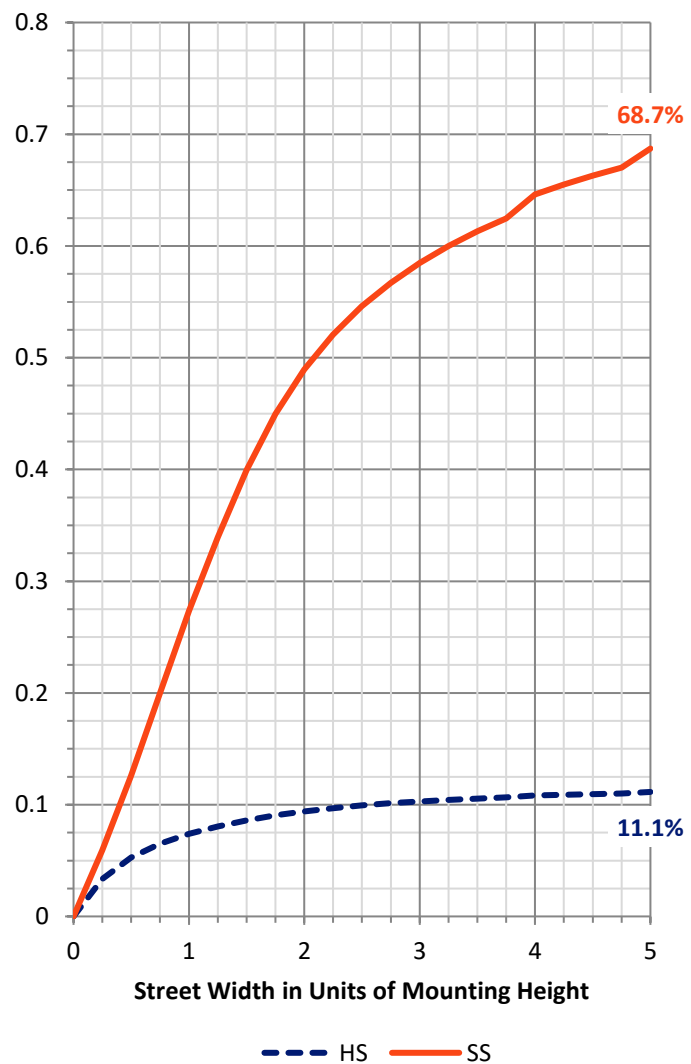
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	807.1	160.9	968.0
	% Fixture	11.7	2.3	14.1
<b>Street Side</b>	Lumens	5255.3	656.7	5912.0
	% Fixture	76.4	9.5	85.9
<b>Total</b>	Lumens	6062.4	817.6	6880.0
	% Fixture	88.1	11.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	33.1	0.5
20°-30°	98.4	1.4
30°-40°	197.7	2.9
40°-50°	347.9	5.1
50°-60°	960.5	14.0
60°-70°	1660.7	24.1
70°-80°	1541.5	22.4
80°-90°	1215.5	17.7
90°-100°	385.7	5.6
100°-110°	137.6	2.0
110°-120°	113.0	1.6
120°-130°	74.4	1.1
130°-140°	52.9	0.8
140°-150°	34.2	0.5
150°-160°	15.7	0.2
160°-170°	3.9	0.1
170°-180°	0.1	0.0
0°-90°	6062.4	88.1
0°-180°	6880.0	100.0

**Coefficient of Utilization**



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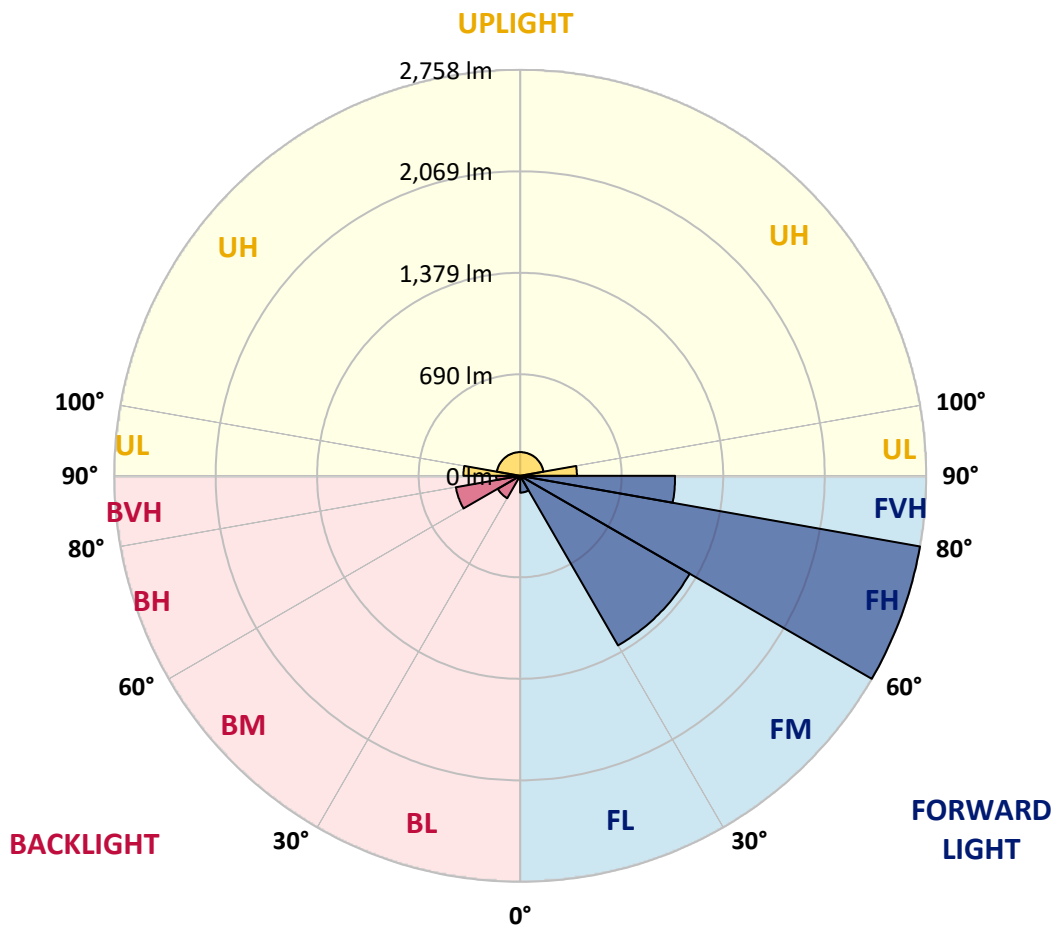
CATALOG NUMBER: ARC-CA6-100-740-U-33-X-5-X-GHSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.2	1.7			
FM (30°-60°)	1330.3	19.3			
FH (60°-80°)	2758.3	40.1			G2/5000
FVH (80°-90°)	1052.5	15.3			G5
BL (0°-30°)	24.4	0.4	B0/110		
BM (30°-60°)	175.7	2.6	B0/220		
BH (60°-80°)	443.9	6.5	B1/500		G1/500
BVH (80°-90°)	163.0	2.4			G2/225
UL (90°-100°)	385.7	5.6		U3/500	
UH (100°-180°)	160.9	2.3		U3/500	

**BUG Rating: B1-U3-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	81.5	79.4	80.5	80.5	81.5	77.3	73.1	69.9	66.7	62.5	57.2
5°	116.5	114.4	111.2	110.1	108.0	103.8	97.4	95.3	88.9	80.5	69.9
7.5°	141.9	140.8	139.8	136.6	134.5	128.1	120.7	117.5	110.1	98.5	85.8
10°	160.9	160.9	162.0	156.7	147.2	141.9	135.5	133.4	128.1	112.2	96.4
12.5°	176.8	174.7	166.2	162.0	157.8	158.8	159.9	158.8	156.7	130.2	108.0
15°	191.6	189.5	183.2	177.9	174.7	185.3	208.6	206.5	205.4	164.1	126.0
17.5°	202.2	202.2	208.6	212.8	218.1	202.2	198.0	204.3	211.8	181.1	142.9
20°	232.9	228.7	223.4	219.2	245.6	234.0	238.2	245.6	250.9	202.2	156.7
22.5°	219.2	220.2	243.5	252.0	239.3	232.9	247.8	250.9	252.0	231.9	163.1
25°	299.6	285.9	277.4	303.9	301.8	348.3	362.1	371.6	371.6	314.5	227.6
27.5°	414.0	414.0	450.0	519.9	508.2	509.3	493.4	492.3	512.5	531.5	346.2
30°	448.9	460.6	561.2	596.1	634.2	586.6	534.7	494.5	502.9	605.6	403.4
32.5°	459.5	470.1	591.9	553.8	567.5	548.5	555.9	474.3	454.2	558.0	392.8
35°	401.3	416.1	515.6	466.9	440.5	497.6	566.5	508.2	498.7	458.5	355.8
37.5°	535.8	543.2	578.1	570.7	579.2	582.3	664.9	612.0	622.6	553.8	450.0
40°	615.2	606.7	743.3	776.1	763.4	751.7	744.3	662.8	675.5	641.6	608.8
42.5°	756.0	746.5	842.8	862.9	866.1	835.4	870.3	767.6	735.9	666.0	758.1
45°	765.5	770.8	861.9	810.0	864.0	920.1	983.6	865.0	807.9	690.3	880.9
47.5°	677.6	700.9	901.0	855.5	802.6	752.8	777.2	716.8	670.2	546.3	847.0
50°	691.4	700.9	829.0	775.0	644.8	798.3	1012.2	968.8	918.0	677.6	816.3
52.5°	978.3	974.1	1030.2	1033.4	1066.2	1198.6	1621.0	1586.1	1594.5	1319.3	1215.5
55°	1341.5	1339.4	1481.3	1707.8	1895.2	1959.8	2511.5	2373.8	2311.4	2044.5	2146.2
57.5°	1734.3	1752.3	1814.8	2132.4	2453.2	2536.9	3400.9	3329.9	3192.3	2667.1	2938.2
60°	2148.3	2137.7	2045.6	2254.2	2767.7	3184.9	4480.8	4514.7	4240.5	3357.4	3207.1
62.5°	2311.4	2297.6	2114.4	2363.2	2961.5	3292.9	4491.4	4588.8	4484.0	3656.0	3139.3
65°	2283.8	2252.1	2008.5	2204.4	2499.8	2801.6	4009.7	3686.7	3858.3	3738.6	2967.8
67.5°	2175.8	2168.4	1941.8	2049.8	2242.5	2281.7	3662.4	3336.3	3397.7	3812.7	3018.6
70°	2040.3	2038.2	1866.7	1948.2	2222.4	2182.2	3390.3	3039.8	3003.8	3412.5	3031.3
72.5°	2044.5	2042.4	1852.9	1880.4	2174.8	2109.1	3361.7	3082.2	3016.5	3215.6	2885.2
75°	2079.5	2081.6	1880.4	1911.1	2241.5	2123.9	3429.4	3176.4	3109.7	3196.5	2768.8
77.5°	2045.6	2062.5	1864.5	1933.4	2283.8	2121.8	3397.7	3158.4	3064.2	3039.8	2546.4
80°	1932.3	1955.6	1777.7	1857.1	2245.7	2150.4	3371.2	3130.9	3011.2	2877.8	2386.5
82.5°	1695.1	1719.5	1582.9	1656.0	2089.0	2032.9	3185.9	2953.0	2846.0	2613.1	2177.9
85°	1456.9	1513.0	1446.3	1456.9	1844.4	1861.4	2936.0	2730.6	2656.5	2453.2	2107.0
87.5°	1202.8	1251.5	1189.0	1113.9	1381.7	1479.1	2427.8	2326.2	2306.1	2165.2	1828.5
90°	890.4	934.9	897.9	799.4	936.0	997.4	1789.4	1733.3	1776.7	1615.7	1256.8
92.5°	645.9	653.3	609.9	528.3	623.6	653.3	1173.1	1087.4	1138.2	990.0	736.9
95°	432.0	450.0	416.1	381.2	452.1	455.3	723.2	659.6	632.1	568.6	440.5
97.5°	316.6	317.6	304.9	273.2	317.6	321.9	480.7	433.0	408.7	382.2	304.9
100°	250.9	250.9	231.9	211.8	221.3	229.8	334.6	301.8	289.1	277.4	229.8
102.5°	219.2	218.1	202.2	182.1	181.1	185.3	253.1	230.8	221.3	213.9	181.1
105°	207.5	206.5	190.6	169.4	164.1	160.9	210.7	195.9	189.5	183.2	163.1
107.5°	205.4	203.3	187.4	168.3	159.9	151.4	189.5	176.8	177.9	171.5	156.7
110°	207.5	207.5	193.8	182.1	168.3	156.7	190.6	176.8	181.1	178.9	163.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	202.2	207.5	202.2	194.8	180.0	170.5	199.1	183.2	188.5	188.5	168.3
115°	190.6	195.9	195.9	188.5	174.7	171.5	196.9	183.2	185.3	182.1	156.7
117.5°	174.7	177.9	175.8	167.3	155.6	153.5	183.2	176.8	176.8	167.3	146.1
120°	163.1	156.7	148.2	141.9	135.5	140.8	165.2	158.8	153.5	149.3	133.4
122.5°	146.1	138.7	129.2	126.0	121.8	129.2	150.3	145.1	139.8	137.6	126.0
125°	120.7	120.7	116.5	114.4	113.3	123.9	148.2	142.9	135.5	131.3	117.5
127.5°	116.5	116.5	113.3	111.2	112.2	124.9	145.1	139.8	131.3	126.0	113.3
130°	117.5	115.4	111.2	108.0	109.1	123.9	144.0	137.6	129.2	124.9	113.3
132.5°	111.2	109.1	105.9	103.8	102.7	117.5	136.6	133.4	127.1	117.5	104.8
135°	108.0	105.9	103.8	102.7	102.7	114.4	130.2	127.1	120.7	110.1	96.4
137.5°	106.9	104.8	100.6	99.5	98.5	109.1	121.8	119.6	113.3	103.8	92.1
140°	101.6	98.5	95.3	94.2	94.2	102.7	115.4	113.3	106.9	99.5	88.9
142.5°	94.2	92.1	88.9	88.9	90.0	98.5	112.2	111.2	103.8	95.3	85.8
145°	90.0	87.9	85.8	86.8	87.9	95.3	105.9	104.8	99.5	92.1	82.6
147.5°	82.6	81.5	79.4	78.4	80.5	86.8	98.5	98.5	95.3	85.8	76.2
150°	72.0	70.9	68.8	67.8	69.9	76.2	85.8	85.8	82.6	73.1	64.6
152.5°	60.4	59.3	59.3	60.4	62.5	65.6	74.1	75.2	72.0	62.5	55.1
155°	52.9	51.9	51.9	52.9	56.1	59.3	64.6	64.6	61.4	55.1	47.6
157.5°	45.5	44.5	44.5	45.5	48.7	50.8	56.1	55.1	52.9	47.6	41.3
160°	34.9	33.9	33.9	34.9	38.1	40.2	44.5	44.5	43.4	40.2	34.9
162.5°	26.5	25.4	25.4	26.5	28.6	29.6	32.8	33.9	33.9	31.8	27.5
165°	20.1	19.1	19.1	19.1	21.2	22.2	23.3	23.3	23.3	22.2	19.1
167.5°	12.7	11.6	11.6	12.7	13.8	13.8	14.8	14.8	13.8	13.8	11.6
170°	6.4	5.3	5.3	6.4	6.4	6.4	5.3	4.2	4.2	4.2	4.2
172.5°	2.1	1.1	3.2	3.2	2.1	0.0	0.0	1.1	1.1	1.1	0.0
175°	2.1	1.1	3.2	3.2	2.1	0.0	0.0	1.1	0.0	1.1	0.0
177.5°	1.1	1.1	3.2	3.2	2.1	0.0	0.0	0.0	0.0	1.1	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	55.1	54.0	49.8	43.4	37.1	30.7	29.6	30.7	31.8	32.8	33.9
5°	65.6	61.4	52.9	43.4	34.9	26.5	22.2	20.1	19.1	20.1	21.2
7.5°	79.4	74.1	63.5	51.9	41.3	32.8	27.5	22.2	19.1	19.1	20.1
10°	88.9	82.6	69.9	57.2	46.6	37.1	30.7	25.4	22.2	20.1	20.1
12.5°	99.5	91.1	74.1	60.4	48.7	40.2	33.9	28.6	25.4	23.3	23.3
15°	111.2	101.6	81.5	63.5	51.9	42.4	37.1	31.8	27.5	25.4	25.4
17.5°	130.2	114.4	85.8	66.7	54.0	44.5	38.1	32.8	28.6	26.5	26.5
20°	138.7	120.7	86.8	69.9	57.2	46.6	39.2	32.8	29.6	27.5	27.5
22.5°	138.7	119.6	88.9	72.0	60.4	48.7	40.2	33.9	29.6	27.5	27.5
25°	174.7	131.3	91.1	77.3	63.5	50.8	42.4	34.9	30.7	28.6	28.6
27.5°	244.6	171.5	104.8	82.6	67.8	54.0	44.5	37.1	31.8	29.6	29.6
30°	268.9	191.6	119.6	96.4	74.1	57.2	46.6	39.2	33.9	30.7	30.7
32.5°	274.2	188.5	128.1	105.9	84.7	62.5	48.7	41.3	34.9	31.8	31.8
35°	247.8	174.7	128.1	110.1	91.1	69.9	54.0	43.4	36.0	32.8	31.8
37.5°	289.1	188.5	131.3	111.2	94.2	75.2	60.4	46.6	38.1	33.9	33.9
40°	373.8	223.4	147.2	117.5	95.3	78.4	66.7	51.9	41.3	36.0	36.0
42.5°	437.3	252.0	164.1	133.4	103.8	82.6	68.8	56.1	45.5	39.2	38.1
45°	491.3	279.5	178.9	148.2	118.6	92.1	73.1	60.4	49.8	43.4	42.4
47.5°	500.8	293.3	190.6	163.1	130.2	101.6	79.4	64.6	55.1	47.6	46.6
50°	483.9	294.3	194.8	172.6	142.9	112.2	86.8	69.9	59.3	51.9	51.9
52.5°	691.4	367.4	213.9	177.9	147.2	120.7	96.4	76.2	63.5	57.2	57.2
55°	1247.3	594.0	276.3	210.7	157.8	127.1	104.8	85.8	69.9	62.5	62.5
57.5°	2016.0	927.5	365.3	281.6	203.3	147.2	114.4	95.3	78.4	67.8	67.8
60°	2671.3	1308.7	444.7	343.1	266.8	202.2	138.7	108.0	87.9	75.2	74.1
62.5°	3075.8	1651.7	491.3	366.3	304.9	256.2	186.3	135.5	99.5	85.8	83.6
65°	2985.8	1823.2	511.4	364.2	302.8	273.2	222.3	168.3	119.6	98.5	95.3
67.5°	2742.3	1824.3	508.2	348.3	286.9	259.4	221.3	182.1	138.7	111.2	106.9
70°	2620.5	1792.5	492.3	336.7	274.2	242.5	205.4	167.3	136.6	118.6	116.5
72.5°	2562.3	1771.4	482.8	334.6	272.1	236.1	194.8	149.3	122.8	113.3	115.4
75°	2576.1	1784.1	487.0	337.8	276.3	239.3	190.6	138.7	108.0	97.4	99.5
77.5°	2545.3	1758.7	493.4	336.7	274.2	234.0	177.9	127.1	98.5	87.9	86.8
80°	2570.8	1703.6	478.6	326.1	258.3	212.8	157.8	113.3	90.0	82.6	81.5
82.5°	2375.9	1483.4	425.6	297.5	234.0	183.2	132.3	99.5	84.7	76.2	76.2
85°	2177.9	1202.8	365.3	261.5	192.7	144.0	105.9	86.8	74.1	67.8	67.8
87.5°	1652.8	861.9	282.7	214.9	160.9	123.9	96.4	83.6	73.1	68.8	67.8
90°	1021.7	531.5	210.7	171.5	136.6	110.1	91.1	80.5	72.0	68.8	68.8
92.5°	571.8	339.9	163.1	140.8	117.5	98.5	83.6	73.1	65.6	62.5	62.5
95°	387.5	254.1	139.8	126.0	104.8	86.8	73.1	63.5	57.2	52.9	52.9
97.5°	280.6	200.1	123.9	113.3	94.2	76.2	64.6	55.1	49.8	47.6	47.6
100°	214.9	162.0	112.2	101.6	83.6	66.7	56.1	47.6	42.4	40.2	40.2
102.5°	172.6	136.6	101.6	92.1	74.1	59.3	47.6	39.2	34.9	33.9	32.8
105°	155.6	127.1	95.3	85.8	67.8	54.0	42.4	34.9	30.7	28.6	28.6
107.5°	151.4	127.1	94.2	83.6	64.6	50.8	38.1	31.8	27.5	25.4	25.4
110°	160.9	134.5	95.3	81.5	60.4	46.6	34.9	28.6	24.4	23.3	23.3



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	166.2	135.5	91.1	76.2	56.1	42.4	32.8	26.5	23.3	21.2	21.2
115°	152.5	121.8	83.6	67.8	49.8	38.1	30.7	25.4	21.2	19.1	19.1
117.5°	147.2	114.4	81.5	59.3	45.5	34.9	28.6	23.3	20.1	18.0	18.0
120°	147.2	111.2	72.0	51.9	41.3	31.8	26.5	21.2	18.0	16.9	16.9
122.5°	141.9	102.7	63.5	45.5	36.0	27.5	23.3	19.1	16.9	14.8	14.8
125°	129.2	95.3	51.9	41.3	32.8	25.4	21.2	18.0	14.8	13.8	13.8
127.5°	121.8	94.2	48.7	38.1	29.6	23.3	19.1	15.9	12.7	11.6	11.6
130°	120.7	94.2	45.5	33.9	26.5	20.1	16.9	13.8	11.6	10.6	10.6
132.5°	108.0	85.8	43.4	31.8	24.4	19.1	15.9	12.7	10.6	9.5	9.5
135°	97.4	79.4	42.4	29.6	22.2	16.9	13.8	11.6	8.5	8.5	8.5
137.5°	90.0	73.1	42.4	27.5	20.1	14.8	12.7	10.6	7.4	7.4	7.4
140°	84.7	67.8	41.3	26.5	18.0	13.8	11.6	8.5	6.4	6.4	6.4
142.5°	79.4	63.5	38.1	25.4	16.9	11.6	10.6	8.5	6.4	5.3	5.3
145°	73.1	58.2	33.9	23.3	15.9	10.6	9.5	7.4	5.3	4.2	4.2
147.5°	66.7	51.9	29.6	20.1	14.8	9.5	8.5	6.4	4.2	4.2	4.2
150°	57.2	44.5	26.5	18.0	12.7	8.5	7.4	5.3	4.2	3.2	3.2
152.5°	46.6	38.1	23.3	15.9	11.6	7.4	6.4	4.2	3.2	2.1	2.1
155°	41.3	33.9	21.2	13.8	9.5	6.4	5.3	3.2	3.2	2.1	2.1
157.5°	36.0	29.6	19.1	11.6	7.4	4.2	4.2	3.2	2.1	2.1	1.1
160°	29.6	25.4	15.9	9.5	6.4	3.2	3.2	2.1	2.1	1.1	1.1
162.5°	23.3	19.1	11.6	7.4	4.2	2.1	2.1	2.1	2.1	1.1	0.0
165°	15.9	13.8	8.5	5.3	3.2	1.1	1.1	2.1	1.1	1.1	0.0
167.5°	10.6	8.5	5.3	3.2	2.1	0.0	1.1	1.1	1.1	1.1	0.0
170°	4.2	4.2	3.2	2.1	0.0	0.0	0.0	1.1	1.1	1.1	0.0
172.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0
175°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	1.1	0.0
177.5°	1.1	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)