

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: P588608

Luminaire Tested: **ARC-CA6-130-750-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588608  
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-CA6-130-750-U-33-X-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

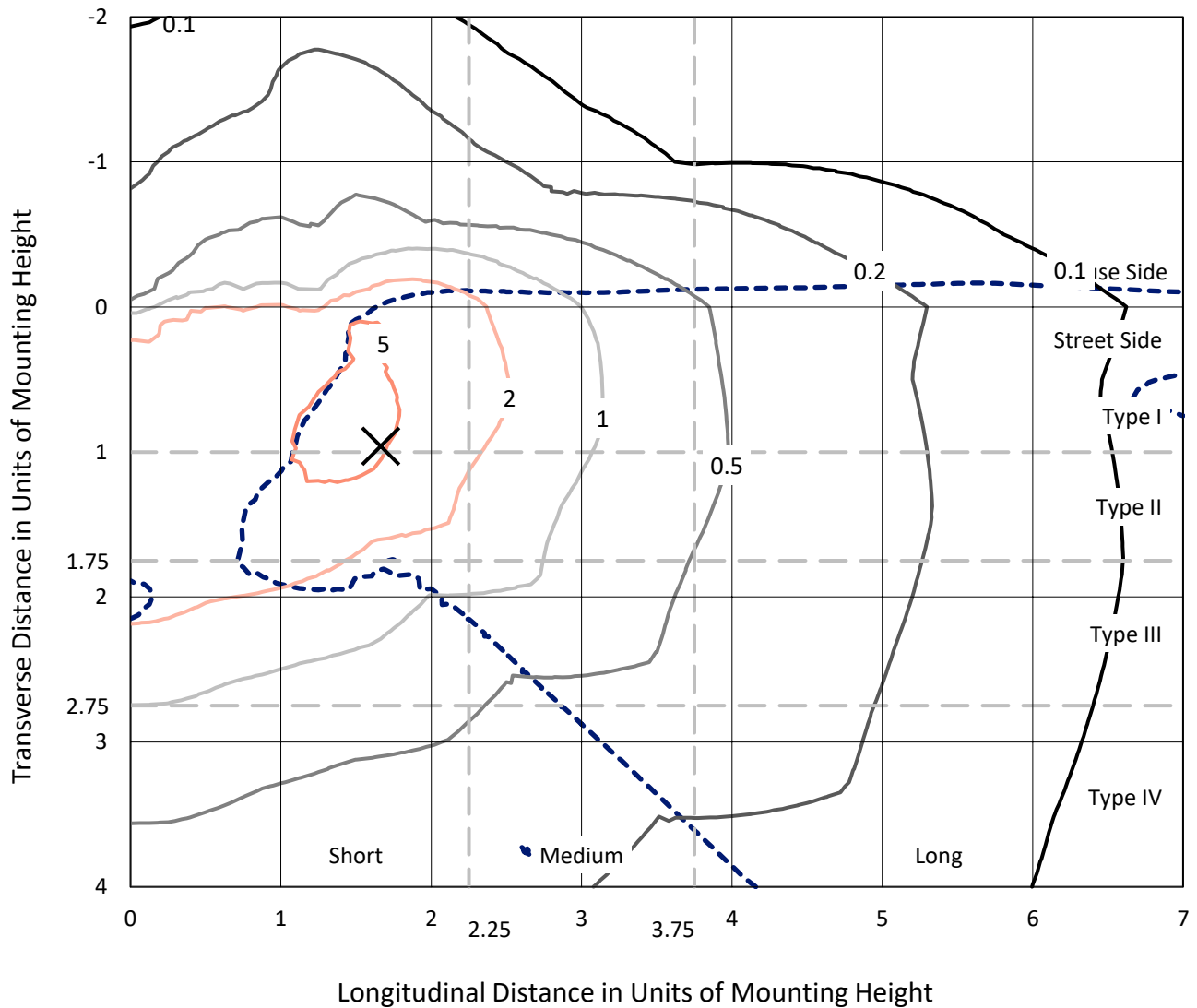
Lumens per Lamp: N/A  
Luminaire Lumens: 8400 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G5  
  
Input Watts (W): 62.6  
Input Voltage (V): 120  
Input 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

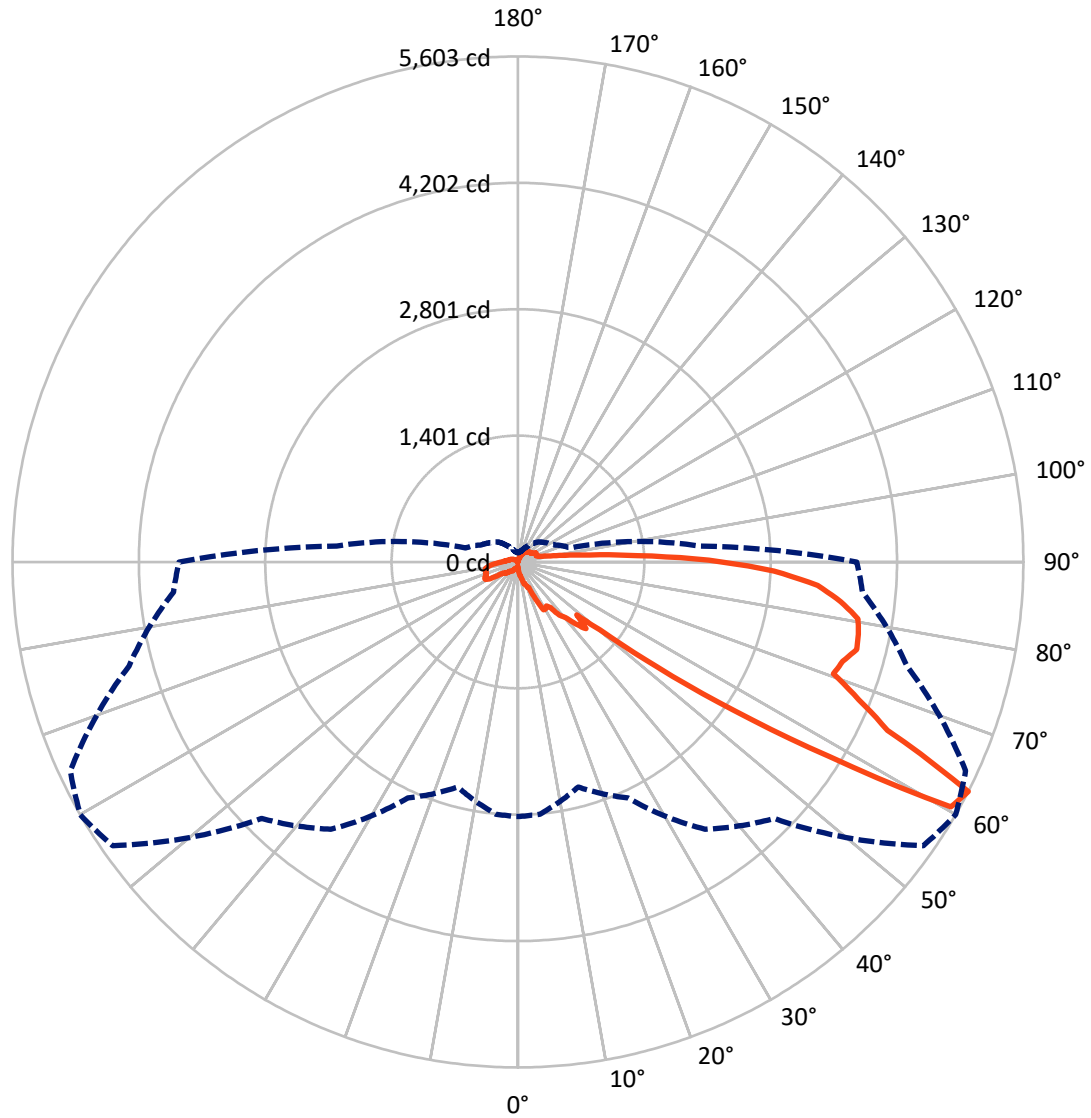
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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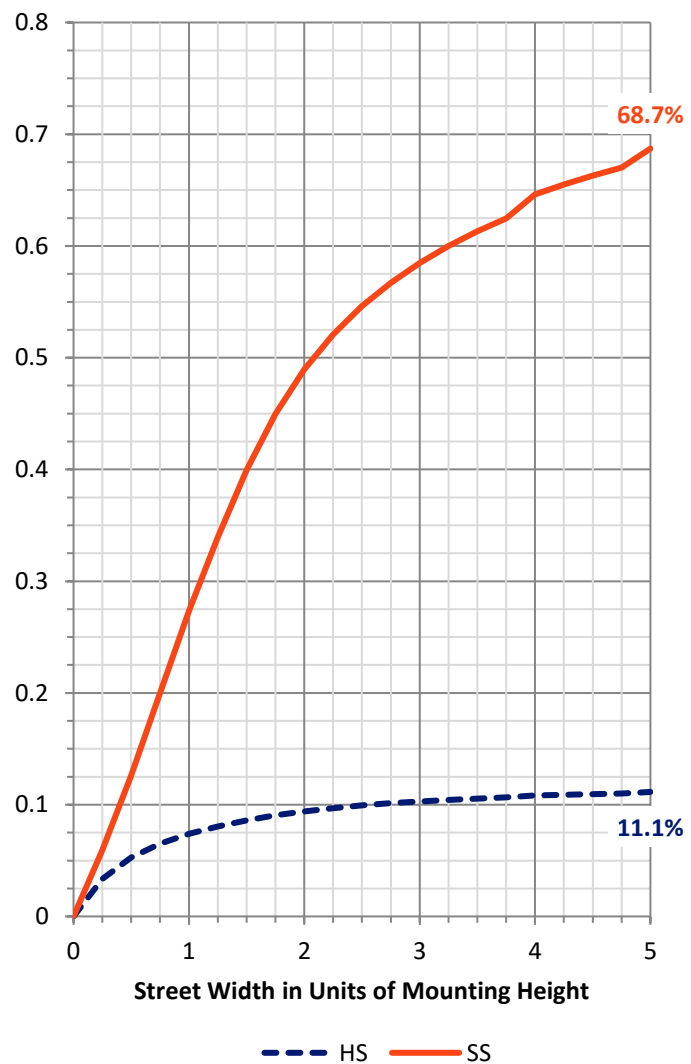
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	985.4	196.5	1181.9
	% Fixture	11.7	2.3	14.1
<b>Street Side</b>	Lumens	6416.4	801.8	7218.1
	% Fixture	76.4	9.5	85.9
<b>Total</b>	Lumens	7401.8	998.2	8400.0
	% Fixture	88.1	11.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.8	0.1
10°-20°	40.4	0.5
20°-30°	120.1	1.4
30°-40°	241.3	2.9
40°-50°	424.8	5.1
50°-60°	1172.7	14.0
60°-70°	2027.6	24.1
70°-80°	1882.1	22.4
80°-90°	1484.0	17.7
90°-100°	470.9	5.6
100°-110°	168.0	2.0
110°-120°	138.0	1.6
120°-130°	90.8	1.1
130°-140°	64.6	0.8
140°-150°	41.8	0.5
150°-160°	19.2	0.2
160°-170°	4.8	0.1
170°-180°	0.2	0.0
0°-90°	7401.8	88.1
0°-180°	8400.0	100.0

**Coefficient of Utilization**



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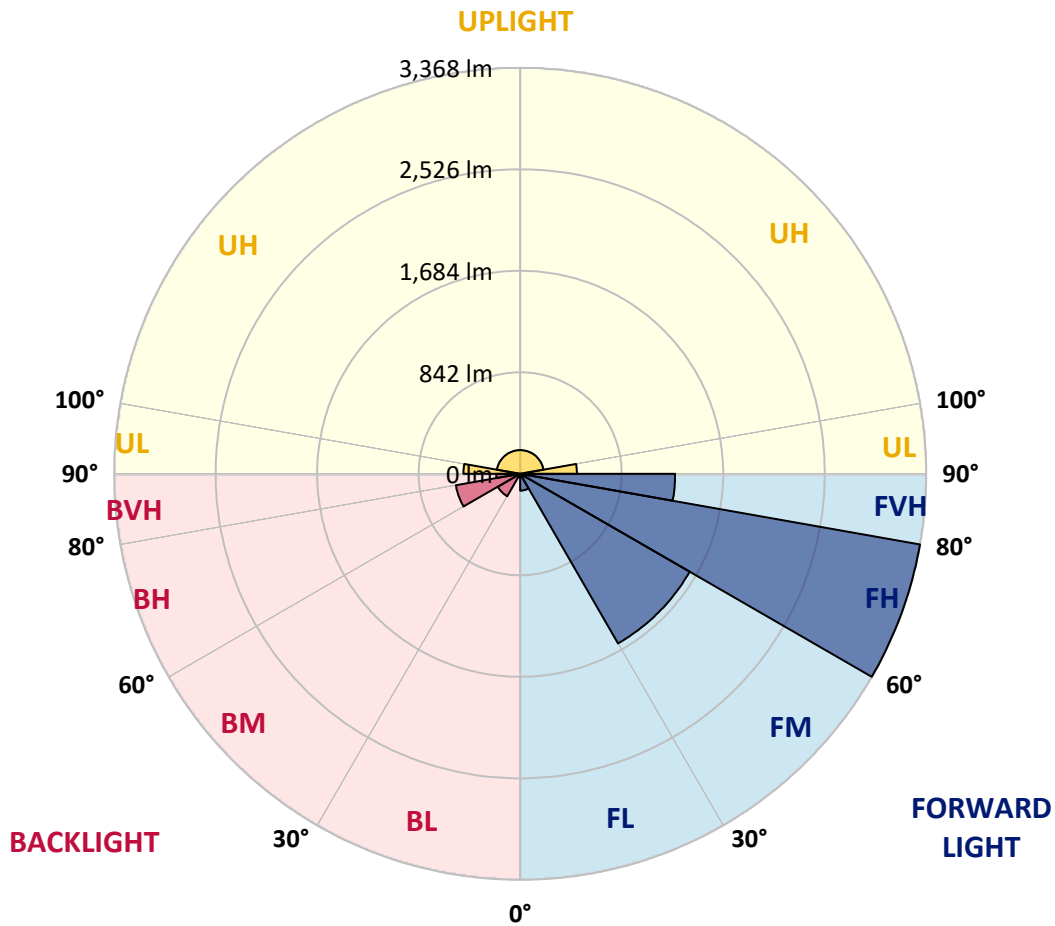
CATALOG NUMBER: ARC-CA6-130-750-U-33-X-5-X-GHSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.4	1.7			
FM (30°-60°)	1624.2	19.3			
FH (60°-80°)	3367.7	40.1			G2/5000
FVH (80°-90°)	1285.0	15.3			G5
BL (0°-30°)	29.8	0.4	B0/110		
BM (30°-60°)	214.6	2.6	B0/220		
BH (60°-80°)	542.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	199.0	2.4			G2/225
UL (90°-100°)	470.9	5.6		U3/500	
UH (100°-180°)	196.5	2.3		U3/500	

**BUG Rating: B2-U4-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
2.5°	99.5	97.0	98.2	98.2	99.5	94.4	89.2	85.3	81.4	76.3	69.8
5°	142.2	139.6	135.7	134.4	131.9	126.7	118.9	116.3	108.6	98.2	85.3
7.5°	173.2	171.9	170.6	166.8	164.2	156.4	147.4	143.5	134.4	120.2	104.7
10°	196.5	196.5	197.8	191.3	179.7	173.2	165.5	162.9	156.4	137.0	117.6
12.5°	215.9	213.3	203.0	197.8	192.6	193.9	195.2	193.9	191.3	159.0	131.9
15°	234.0	231.4	223.6	217.2	213.3	226.2	254.7	252.1	250.8	200.4	153.8
17.5°	246.9	246.9	254.7	259.8	266.3	246.9	241.7	249.5	258.5	221.1	174.5
20°	284.4	279.2	272.8	267.6	299.9	285.7	290.9	299.9	306.4	246.9	191.3
22.5°	267.6	268.9	297.3	307.7	292.2	284.4	302.5	306.4	307.7	283.1	199.1
25°	365.8	349.0	338.7	371.0	368.4	425.3	442.1	453.7	453.7	383.9	277.9
27.5°	505.5	505.5	549.4	634.7	620.5	621.8	602.4	601.1	625.7	648.9	422.7
30°	548.1	562.3	685.1	727.8	774.3	716.2	652.8	603.7	614.0	739.4	492.5
32.5°	561.0	574.0	722.6	676.1	692.9	669.6	678.7	579.1	554.6	681.3	479.6
35°	489.9	508.0	629.6	570.1	537.8	607.6	691.6	620.5	608.9	559.7	434.4
37.5°	654.1	663.2	705.8	696.8	707.1	711.0	811.8	747.2	760.1	676.1	549.4
40°	751.1	740.7	907.5	947.6	932.0	917.8	908.8	809.2	824.8	783.4	743.3
42.5°	923.0	911.4	1029.0	1053.6	1057.4	1020.0	1062.6	937.2	898.4	813.1	925.6
45°	934.6	941.1	1052.3	988.9	1054.9	1123.4	1200.9	1056.2	986.3	842.9	1075.5
47.5°	827.3	855.8	1100.1	1044.5	979.9	919.1	948.9	875.2	818.3	667.0	1034.2
50°	844.1	855.8	1012.2	946.3	787.3	974.7	1235.8	1182.8	1120.8	827.3	996.7
52.5°	1194.5	1189.3	1257.8	1261.7	1301.8	1463.4	1979.2	1936.5	1946.8	1610.7	1484.0
55°	1637.9	1635.3	1808.5	2085.2	2314.0	2392.8	3066.3	2898.3	2822.0	2496.2	2620.3
57.5°	2117.5	2139.4	2215.7	2603.5	2995.2	3097.4	4152.2	4065.6	3897.5	3256.4	3587.3
60°	2622.9	2610.0	2497.5	2752.2	3379.2	3888.5	5470.8	5512.2	5177.3	4099.2	3915.6
62.5°	2822.0	2805.2	2581.6	2885.3	3615.7	4020.4	5483.7	5602.6	5474.7	4463.8	3832.9
65°	2788.4	2749.6	2452.3	2691.4	3052.1	3420.5	4895.5	4501.2	4710.7	4564.6	3623.5
67.5°	2656.5	2647.5	2370.8	2502.7	2738.0	2785.8	4471.5	4073.4	4148.3	4655.1	3685.5
70°	2491.1	2488.5	2279.1	2378.6	2713.4	2664.3	4139.3	3711.4	3667.4	4166.4	3701.1
72.5°	2496.2	2493.7	2262.3	2295.9	2655.2	2575.1	4104.4	3763.1	3683.0	3926.0	3522.7
75°	2538.9	2541.5	2295.9	2333.4	2736.7	2593.2	4187.1	3878.2	3796.7	3902.7	3380.5
77.5°	2497.5	2518.2	2276.5	2360.5	2788.4	2590.6	4148.3	3856.2	3741.1	3711.4	3109.0
80°	2359.2	2387.7	2170.5	2267.4	2741.9	2625.5	4116.0	3822.6	3676.5	3513.6	2913.8
82.5°	2069.6	2099.4	1932.6	2021.8	2550.5	2482.0	3889.8	3605.4	3474.8	3190.4	2659.1
85°	1778.8	1847.3	1765.9	1778.8	2251.9	2272.6	3584.7	3333.9	3243.4	2995.2	2572.5
87.5°	1468.5	1528.0	1451.7	1359.9	1687.0	1805.9	2964.2	2840.1	2815.5	2643.6	2232.5
90°	1087.2	1141.5	1096.2	976.0	1142.8	1217.7	2184.7	2116.2	2169.2	1972.7	1534.5
92.5°	788.6	797.6	744.6	645.1	761.4	797.6	1432.3	1327.6	1389.7	1208.7	899.7
95°	527.4	549.4	508.0	465.4	552.0	555.9	882.9	805.4	771.8	694.2	537.8
97.5°	386.5	387.8	372.3	333.5	387.8	393.0	586.9	528.7	499.0	466.7	372.3
100°	306.4	306.4	283.1	258.5	270.2	280.5	408.5	368.4	352.9	338.7	280.5
102.5°	267.6	266.3	246.9	222.3	221.1	226.2	309.0	281.8	270.2	261.1	221.1
105°	253.4	252.1	232.7	206.8	200.4	196.5	257.3	239.2	231.4	223.6	199.1
107.5°	250.8	248.2	228.8	205.5	195.2	184.9	231.4	215.9	217.2	209.4	191.3
110°	253.4	253.4	236.6	222.3	205.5	191.3	232.7	215.9	221.1	218.5	199.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	246.9	253.4	246.9	237.9	219.8	208.1	243.0	223.6	230.1	230.1	205.5
115°	232.7	239.2	239.2	230.1	213.3	209.4	240.4	223.6	226.2	222.3	191.3
117.5°	213.3	217.2	214.6	204.2	190.0	187.4	223.6	215.9	215.9	204.2	178.4
120°	199.1	191.3	181.0	173.2	165.5	171.9	201.7	193.9	187.4	182.3	162.9
122.5°	178.4	169.3	157.7	153.8	148.7	157.7	183.6	177.1	170.6	168.1	153.8
125°	147.4	147.4	142.2	139.6	138.3	151.2	181.0	174.5	165.5	160.3	143.5
127.5°	142.2	142.2	138.3	135.7	137.0	152.5	177.1	170.6	160.3	153.8	138.3
130°	143.5	140.9	135.7	131.9	133.1	151.2	175.8	168.1	157.7	152.5	138.3
132.5°	135.7	133.1	129.3	126.7	125.4	143.5	166.8	162.9	155.1	143.5	128.0
135°	131.9	129.3	126.7	125.4	125.4	139.6	159.0	155.1	147.4	134.4	117.6
137.5°	130.6	128.0	122.8	121.5	120.2	133.1	148.7	146.1	138.3	126.7	112.5
140°	124.1	120.2	116.3	115.1	115.1	125.4	140.9	138.3	130.6	121.5	108.6
142.5°	115.1	112.5	108.6	108.6	109.9	120.2	137.0	135.7	126.7	116.3	104.7
145°	109.9	107.3	104.7	106.0	107.3	116.3	129.3	128.0	121.5	112.5	100.8
147.5°	100.8	99.5	97.0	95.7	98.2	106.0	120.2	120.2	116.3	104.7	93.1
150°	87.9	86.6	84.0	82.7	85.3	93.1	104.7	104.7	100.8	89.2	78.9
152.5°	73.7	72.4	72.4	73.7	76.3	80.1	90.5	91.8	87.9	76.3	67.2
155°	64.6	63.3	63.3	64.6	68.5	72.4	78.9	78.9	75.0	67.2	58.2
157.5°	55.6	54.3	54.3	55.6	59.5	62.1	68.5	67.2	64.6	58.2	50.4
160°	42.7	41.4	41.4	42.7	46.5	49.1	54.3	54.3	53.0	49.1	42.7
162.5°	32.3	31.0	31.0	32.3	34.9	36.2	40.1	41.4	41.4	38.8	33.6
165°	24.6	23.3	23.3	23.3	25.9	27.1	28.4	28.4	28.4	27.1	23.3
167.5°	15.5	14.2	14.2	15.5	16.8	16.8	18.1	18.1	16.8	16.8	14.2
170°	7.8	6.5	6.5	7.8	7.8	7.8	6.5	5.2	5.2	5.2	5.2
172.5°	2.6	1.3	3.9	3.9	2.6	0.0	0.0	1.3	1.3	1.3	0.0
175°	2.6	1.3	3.9	3.9	2.6	0.0	0.0	1.3	0.0	1.3	0.0
177.5°	1.3	1.3	3.9	3.9	2.6	0.0	0.0	0.0	0.0	1.3	0.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
2.5°	67.2	65.9	60.8	53.0	45.2	37.5	36.2	37.5	38.8	40.1	41.4
5°	80.1	75.0	64.6	53.0	42.7	32.3	27.1	24.6	23.3	24.6	25.9
7.5°	97.0	90.5	77.6	63.3	50.4	40.1	33.6	27.1	23.3	23.3	24.6
10°	108.6	100.8	85.3	69.8	56.9	45.2	37.5	31.0	27.1	24.6	24.6
12.5°	121.5	111.2	90.5	73.7	59.5	49.1	41.4	34.9	31.0	28.4	28.4
15°	135.7	124.1	99.5	77.6	63.3	51.7	45.2	38.8	33.6	31.0	31.0
17.5°	159.0	139.6	104.7	81.4	65.9	54.3	46.5	40.1	34.9	32.3	32.3
20°	169.3	147.4	106.0	85.3	69.8	56.9	47.8	40.1	36.2	33.6	33.6
22.5°	169.3	146.1	108.6	87.9	73.7	59.5	49.1	41.4	36.2	33.6	33.6
25°	213.3	160.3	111.2	94.4	77.6	62.1	51.7	42.7	37.5	34.9	34.9
27.5°	298.6	209.4	128.0	100.8	82.7	65.9	54.3	45.2	38.8	36.2	36.2
30°	328.4	234.0	146.1	117.6	90.5	69.8	56.9	47.8	41.4	37.5	37.5
32.5°	334.8	230.1	156.4	129.3	103.4	76.3	59.5	50.4	42.7	38.8	38.8
35°	302.5	213.3	156.4	134.4	111.2	85.3	65.9	53.0	44.0	40.1	38.8
37.5°	352.9	230.1	160.3	135.7	115.1	91.8	73.7	56.9	46.5	41.4	41.4
40°	456.3	272.8	179.7	143.5	116.3	95.7	81.4	63.3	50.4	44.0	44.0
42.5°	533.9	307.7	200.4	162.9	126.7	100.8	84.0	68.5	55.6	47.8	46.5
45°	599.8	341.3	218.5	181.0	144.8	112.5	89.2	73.7	60.8	53.0	51.7
47.5°	611.5	358.1	232.7	199.1	159.0	124.1	97.0	78.9	67.2	58.2	56.9
50°	590.8	359.4	237.9	210.7	174.5	137.0	106.0	85.3	72.4	63.3	63.3
52.5°	844.1	448.6	261.1	217.2	179.7	147.4	117.6	93.1	77.6	69.8	69.8
55°	1522.8	725.2	337.4	257.3	192.6	155.1	128.0	104.7	85.3	76.3	76.3
57.5°	2461.3	1132.4	446.0	343.9	248.2	179.7	139.6	116.3	95.7	82.7	82.7
60°	3261.5	1597.8	542.9	418.8	325.8	246.9	169.3	131.9	107.3	91.8	90.5
62.5°	3755.3	2016.6	599.8	447.3	372.3	312.8	227.5	165.5	121.5	104.7	102.1
65°	3645.5	2226.1	624.4	444.7	369.7	333.5	271.5	205.5	146.1	120.2	116.3
67.5°	3348.1	2227.4	620.5	425.3	350.3	316.7	270.2	222.3	169.3	135.7	130.6
70°	3199.5	2188.6	601.1	411.1	334.8	296.0	250.8	204.2	166.8	144.8	142.2
72.5°	3128.4	2162.7	589.5	408.5	332.2	288.3	237.9	182.3	150.0	138.3	140.9
75°	3145.2	2178.2	594.7	412.4	337.4	292.2	232.7	169.3	131.9	118.9	121.5
77.5°	3107.7	2147.2	602.4	411.1	334.8	285.7	217.2	155.1	120.2	107.3	106.0
80°	3138.7	2080.0	584.3	398.2	315.4	259.8	192.6	138.3	109.9	100.8	99.5
82.5°	2900.9	1811.1	519.7	363.3	285.7	223.6	161.6	121.5	103.4	93.1	93.1
85°	2659.1	1468.5	446.0	319.3	235.3	175.8	129.3	106.0	90.5	82.7	82.7
87.5°	2017.9	1052.3	345.2	262.4	196.5	151.2	117.6	102.1	89.2	84.0	82.7
90°	1247.5	648.9	257.3	209.4	166.8	134.4	111.2	98.2	87.9	84.0	84.0
92.5°	698.1	415.0	199.1	171.9	143.5	120.2	102.1	89.2	80.1	76.3	76.3
95°	473.1	310.3	170.6	153.8	128.0	106.0	89.2	77.6	69.8	64.6	64.6
97.5°	342.6	244.3	151.2	138.3	115.1	93.1	78.9	67.2	60.8	58.2	58.2
100°	262.4	197.8	137.0	124.1	102.1	81.4	68.5	58.2	51.7	49.1	49.1
102.5°	210.7	166.8	124.1	112.5	90.5	72.4	58.2	47.8	42.7	41.4	40.1
105°	190.0	155.1	116.3	104.7	82.7	65.9	51.7	42.7	37.5	34.9	34.9
107.5°	184.9	155.1	115.1	102.1	78.9	62.1	46.5	38.8	33.6	31.0	31.0
110°	196.5	164.2	116.3	99.5	73.7	56.9	42.7	34.9	29.7	28.4	28.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	203.0	165.5	111.2	93.1	68.5	51.7	40.1	32.3	28.4	25.9	25.9
115°	186.2	148.7	102.1	82.7	60.8	46.5	37.5	31.0	25.9	23.3	23.3
117.5°	179.7	139.6	99.5	72.4	55.6	42.7	34.9	28.4	24.6	22.0	22.0
120°	179.7	135.7	87.9	63.3	50.4	38.8	32.3	25.9	22.0	20.7	20.7
122.5°	173.2	125.4	77.6	55.6	44.0	33.6	28.4	23.3	20.7	18.1	18.1
125°	157.7	116.3	63.3	50.4	40.1	31.0	25.9	22.0	18.1	16.8	16.8
127.5°	148.7	115.1	59.5	46.5	36.2	28.4	23.3	19.4	15.5	14.2	14.2
130°	147.4	115.1	55.6	41.4	32.3	24.6	20.7	16.8	14.2	12.9	12.9
132.5°	131.9	104.7	53.0	38.8	29.7	23.3	19.4	15.5	12.9	11.6	11.6
135°	118.9	97.0	51.7	36.2	27.1	20.7	16.8	14.2	10.3	10.3	10.3
137.5°	109.9	89.2	51.7	33.6	24.6	18.1	15.5	12.9	9.0	9.0	9.0
140°	103.4	82.7	50.4	32.3	22.0	16.8	14.2	10.3	7.8	7.8	7.8
142.5°	97.0	77.6	46.5	31.0	20.7	14.2	12.9	10.3	7.8	6.5	6.5
145°	89.2	71.1	41.4	28.4	19.4	12.9	11.6	9.0	6.5	5.2	5.2
147.5°	81.4	63.3	36.2	24.6	18.1	11.6	10.3	7.8	5.2	5.2	5.2
150°	69.8	54.3	32.3	22.0	15.5	10.3	9.0	6.5	5.2	3.9	3.9
152.5°	56.9	46.5	28.4	19.4	14.2	9.0	7.8	5.2	3.9	2.6	2.6
155°	50.4	41.4	25.9	16.8	11.6	7.8	6.5	3.9	3.9	2.6	2.6
157.5°	44.0	36.2	23.3	14.2	9.0	5.2	5.2	3.9	2.6	2.6	1.3
160°	36.2	31.0	19.4	11.6	7.8	3.9	3.9	2.6	2.6	1.3	1.3
162.5°	28.4	23.3	14.2	9.0	5.2	2.6	2.6	2.6	2.6	1.3	0.0
165°	19.4	16.8	10.3	6.5	3.9	1.3	1.3	2.6	1.3	1.3	0.0
167.5°	12.9	10.3	6.5	3.9	2.6	0.0	1.3	1.3	1.3	1.3	0.0
170°	5.2	5.2	3.9	2.6	0.0	0.0	0.0	1.3	1.3	1.3	0.0
172.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	0.0
175°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	1.3	1.3	1.3	0.0
177.5°	1.3	1.3	1.3	1.3	0.0	0.0	1.3	1.3	1.3	1.3	0.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)