

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: P588412

Luminaire Tested: **ARC-CA6-120-750-U-33-X-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588412  
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: STREETWORKS  
Catalog Number: ARC-CA6-120-750-U-33-X-5-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

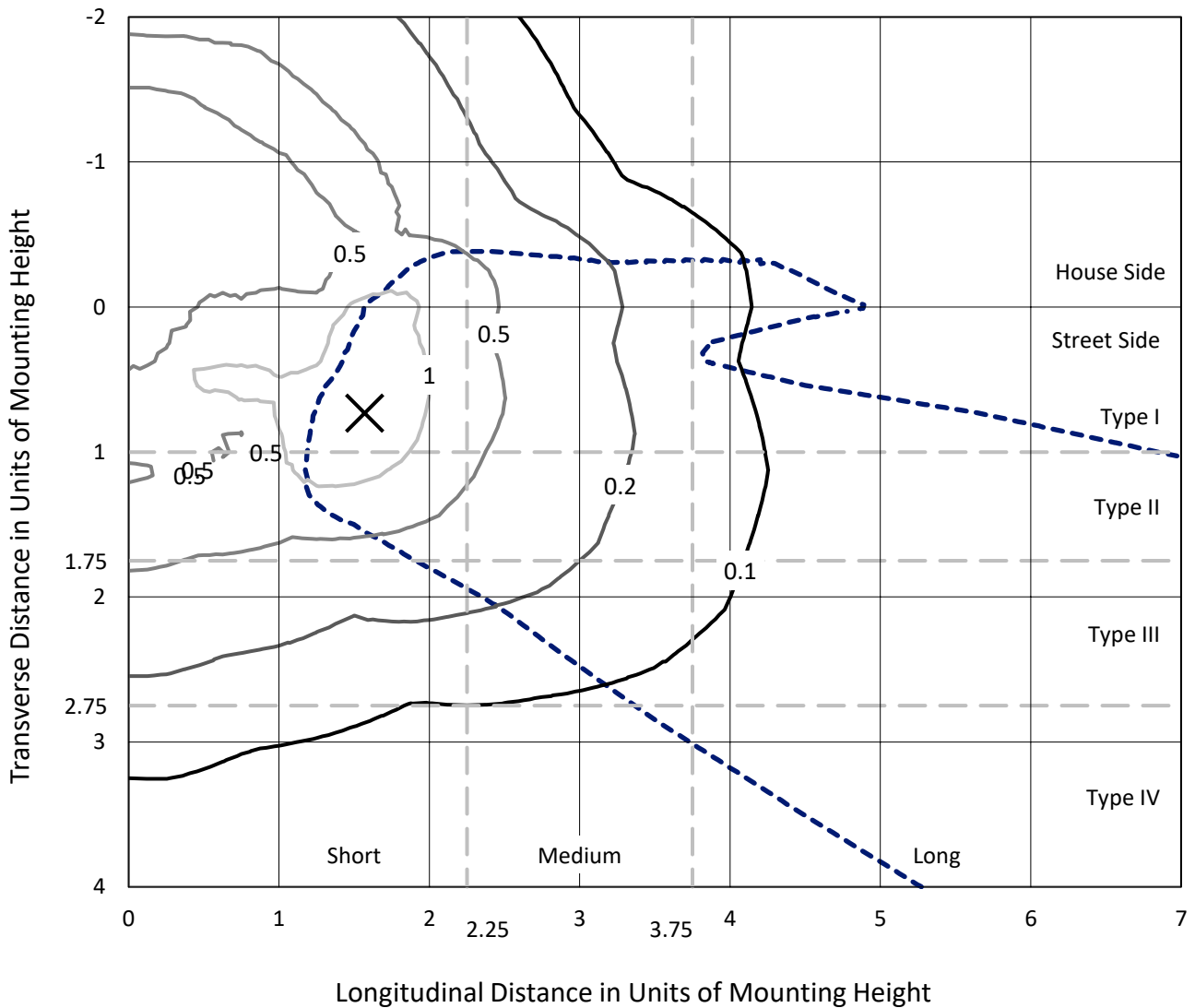
Lumens per Lamp: N/A  
Luminaire Lumens: 16531 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5  
  
Input Watts (W): 119.3  
Input Voltage (V): 120  
Input 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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

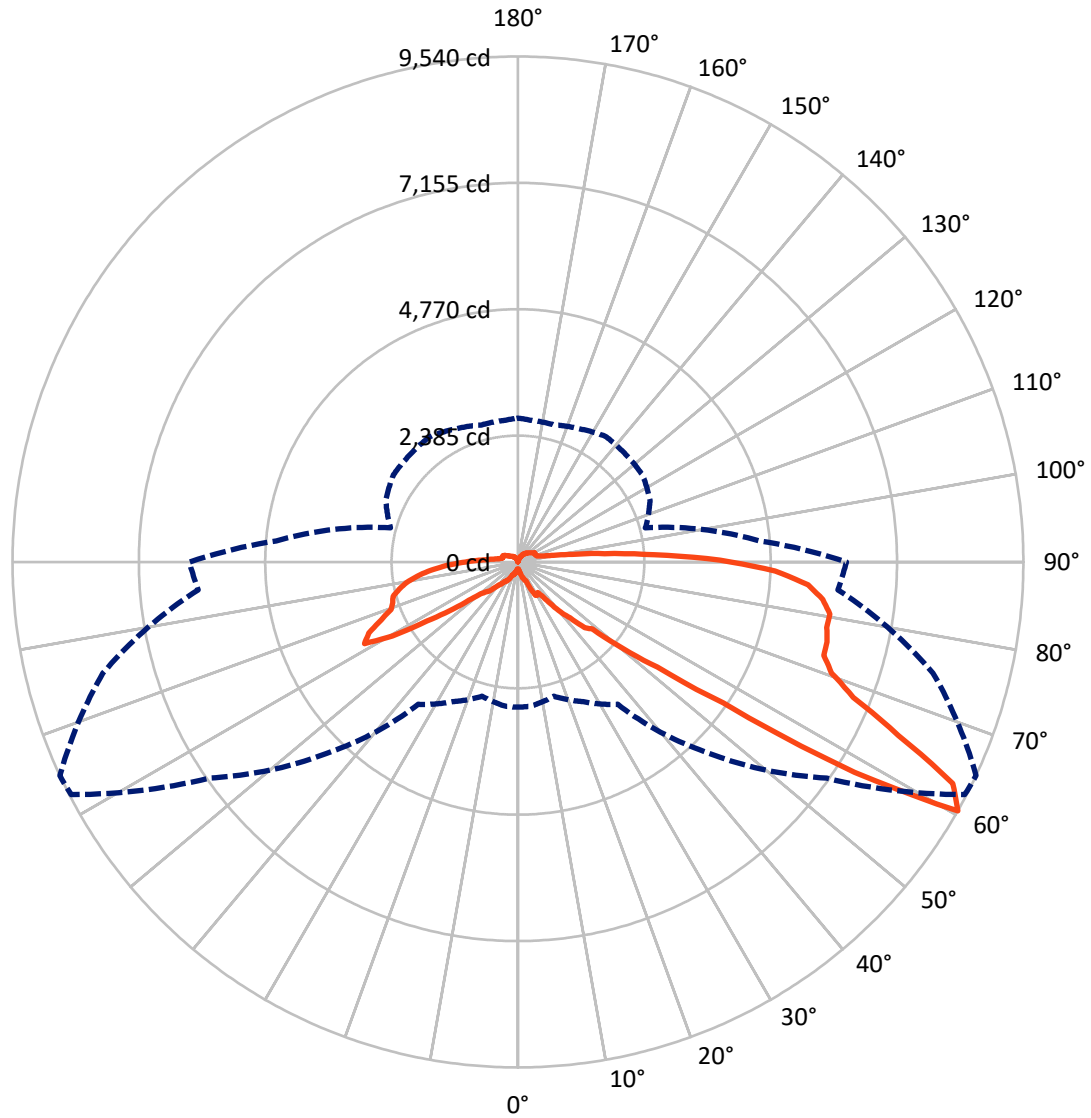
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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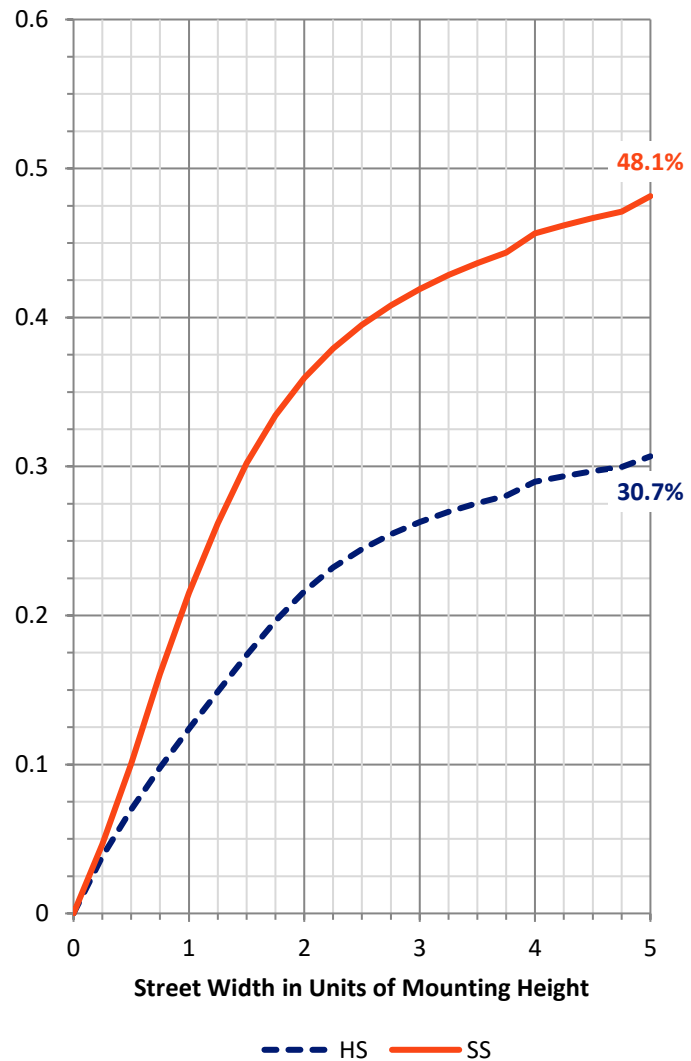
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5512.7	882.8	6395.5
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	8819.6	1315.9	10135.5
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	14332.3	2198.7	16531.0
	% Fixture	86.7	13.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	0.1
10°-20°	70.6	0.4
20°-30°	201.9	1.2
30°-40°	434.8	2.6
40°-50°	822.7	5.0
50°-60°	2298.4	13.9
60°-70°	4097.5	24.8
70°-80°	3587.5	21.7
80°-90°	2803.0	17.0
90°-100°	1059.7	6.4
100°-110°	364.5	2.2
110°-120°	298.0	1.8
120°-130°	200.2	1.2
130°-140°	137.4	0.8
140°-150°	86.4	0.5
150°-160°	40.1	0.2
160°-170°	11.3	0.1
170°-180°	1.0	0.0
0°-90°	14332.3	86.7
0°-180°	16531.0	100.0



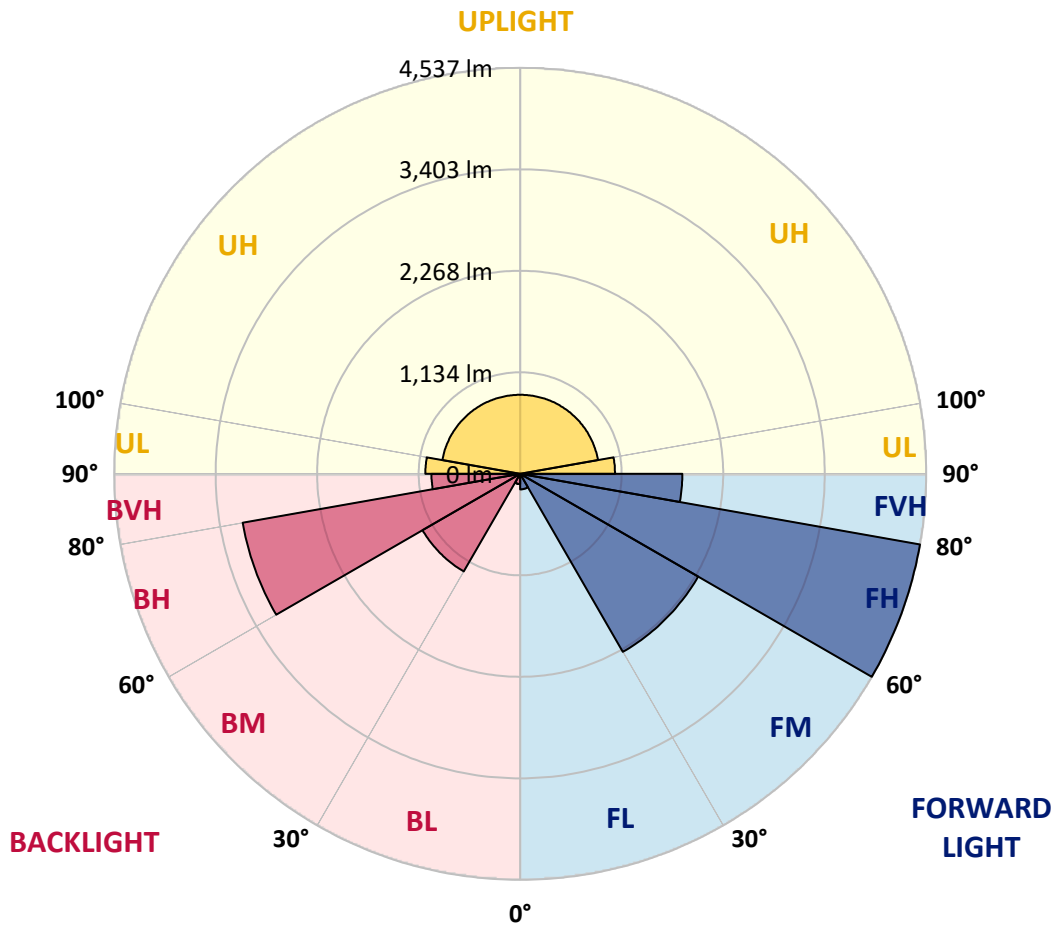
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.2	1.1			
FM (30°-60°)	2296.8	13.9			
FH (60°-80°)	4536.8	27.4			G2/5000
FVH (80°-90°)	1811.8	11.0			G5
BL (0°-30°)	114.2	0.7	B1/500		
BM (30°-60°)	1259.1	7.6	B2/2500		
BH (60°-80°)	3148.2	19.0	B4/5000		G4/5000
BVH (80°-90°)	991.2	6.0			G5
UL (90°-100°)	1059.7	6.4		U5	
UH (100°-180°)	882.8	5.3		U4/1000	

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

Type III Short





REPORT NUMBER: P588412  
 CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
2.5°	145.7	141.5	137.2	137.2	135.0	132.9	132.9	128.6	130.7	128.6	128.6
5°	171.5	169.3	165.0	167.2	162.9	160.7	160.7	158.6	156.5	154.3	147.9
7.5°	199.3	199.3	201.5	203.6	197.2	190.7	188.6	184.3	184.3	182.2	177.9
10°	229.3	227.2	218.6	218.6	214.3	210.0	212.2	210.0	210.0	210.0	201.5
12.5°	237.9	235.8	229.3	229.3	229.3	227.2	235.8	233.6	235.8	233.6	220.8
15°	267.9	265.8	263.6	265.8	274.3	291.5	312.9	304.3	306.5	302.2	255.0
17.5°	280.8	287.2	291.5	293.6	302.2	302.2	306.5	304.3	312.9	319.3	291.5
20°	325.8	321.5	325.8	340.8	362.2	364.3	357.9	357.9	362.2	364.3	310.8
22.5°	345.1	342.9	360.1	347.2	347.2	357.9	396.5	383.6	383.6	379.3	334.3
25°	447.9	456.5	473.7	495.1	546.5	561.5	604.4	557.2	563.7	497.2	424.4
27.5°	537.9	544.4	645.1	735.1	775.8	754.4	790.8	703.0	711.5	720.1	619.4
30°	565.8	578.7	724.4	790.8	844.4	801.6	848.7	733.0	726.6	775.8	735.1
32.5°	544.4	557.2	711.5	739.4	795.1	953.7	893.7	707.3	688.0	711.5	760.8
35°	598.0	606.5	698.7	632.2	683.7	1333.1	1170.2	825.1	786.6	655.8	728.7
37.5°	718.0	718.0	827.3	874.4	913.0	1573.1	1536.7	1026.6	996.6	767.3	842.3
40°	870.1	865.9	1000.9	1033.0	1050.2	1425.2	1858.2	1309.5	1243.1	902.3	1097.3
42.5°	962.3	953.7	1063.0	1097.3	1097.3	1206.6	2102.5	1594.6	1440.2	1052.3	1341.7
45°	998.7	1007.3	1148.8	1105.9	1138.0	1238.8	2364.0	1988.9	1772.4	1234.5	1556.0
47.5°	904.4	917.3	1120.9	1125.2	962.3	990.2	2119.6	2066.1	1888.2	1322.4	1624.6
50°	1110.2	1118.8	1191.6	1142.3	1063.0	1253.8	2524.7	2655.4	2578.3	1637.4	1714.6
52.5°	1523.8	1562.4	1631.0	1673.9	1650.3	2106.8	3386.3	3362.7	3298.4	2458.3	2340.4
55°	1973.9	2006.1	2102.5	2361.8	2559.0	3154.8	4211.4	4704.4	4700.1	3992.8	3647.8
57.5°	2383.3	2385.4	2398.3	2717.6	3021.9	4119.3	5516.6	7327.7	7490.6	6378.2	5223.0
60°	2739.0	2732.6	2623.3	2908.3	3279.1	5107.3	7111.2	9507.3	9539.5	8109.9	6058.9
62.5°	2835.5	2816.2	2657.6	2923.4	3240.5	5126.6	7518.4	9248.0	9211.6	8232.1	6168.2
65°	2751.9	2732.6	2531.1	2769.0	2919.1	4659.4	6944.0	7953.5	7893.5	7520.6	5872.4
67.5°	2627.6	2640.4	2441.1	2623.3	2726.2	4370.0	6339.6	6843.3	6826.2	7008.3	5625.9
70°	2447.6	2458.3	2276.1	2501.1	2651.2	4185.7	5761.0	6307.5	6277.5	6545.4	5263.7
72.5°	2454.0	2486.1	2269.7	2439.0	2595.4	3932.8	5499.5	6123.2	6035.3	6076.0	4828.7
75°	2471.1	2514.0	2284.7	2436.8	2582.6	3840.6	5469.5	6138.2	6026.7	5906.7	4663.6
77.5°	2477.6	2539.7	2293.2	2460.4	2586.9	3714.2	5400.9	6063.2	5958.1	5743.8	4468.6
80°	2426.1	2492.6	2256.8	2462.6	2559.0	3463.4	5227.3	6050.3	5971.0	5722.4	4389.3
82.5°	2323.2	2389.7	2186.1	2355.4	2505.4	3208.4	4983.0	5799.6	5795.3	5516.6	4222.1
85°	2098.2	2171.1	2016.8	2173.2	2357.5	2869.8	4490.0	5373.1	5490.9	5265.9	3997.1
87.5°	1881.7	1954.6	1873.2	1961.0	2147.5	2494.7	3857.8	4637.9	4858.7	4672.2	3433.4
90°	1635.3	1710.3	1643.8	1609.6	1759.6	1991.1	3084.1	3607.0	3814.9	3701.3	2526.9
92.5°	1309.5	1373.8	1311.7	1232.4	1322.4	1461.7	2291.1	2524.7	2574.0	2464.7	1656.7
95°	990.2	1037.3	981.6	902.3	913.0	1000.9	1579.6	1654.6	1641.7	1511.0	1052.3
97.5°	688.0	715.8	679.4	623.7	643.0	698.7	1045.9	1037.3	1037.3	923.7	688.0
100°	477.9	488.7	471.5	445.8	460.8	497.2	703.0	700.8	679.4	623.7	501.5
102.5°	379.3	381.5	364.3	347.2	338.6	372.9	507.9	505.8	510.1	484.4	392.2
105°	334.3	332.2	317.2	302.2	285.0	319.3	402.9	420.1	417.9	396.5	336.5
107.5°	306.5	304.3	289.3	276.5	261.5	291.5	349.3	372.9	370.8	368.6	317.2
110°	285.0	282.9	270.0	257.2	244.3	278.6	327.9	364.3	364.3	364.3	321.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	270.0	270.0	259.3	248.6	237.9	276.5	315.1	357.9	357.9	368.6	336.5
115°	261.5	259.3	250.8	244.3	235.8	278.6	310.8	353.6	355.8	370.8	334.3
117.5°	255.0	252.9	246.5	237.9	233.6	274.3	312.9	362.2	360.1	383.6	327.9
120°	244.3	240.0	231.5	222.9	218.6	252.9	304.3	351.5	347.2	357.9	302.2
122.5°	235.8	222.9	207.9	201.5	201.5	229.3	285.0	317.2	312.9	304.3	272.2
125°	216.5	203.6	190.7	188.6	190.7	214.3	272.2	291.5	293.6	287.2	257.2
127.5°	195.0	186.5	180.0	180.0	184.3	210.0	267.9	280.8	280.8	267.9	244.3
130°	184.3	182.2	177.9	177.9	186.5	212.2	261.5	265.8	265.8	248.6	237.9
132.5°	180.0	175.7	171.5	171.5	180.0	205.7	244.3	252.9	250.8	233.6	225.0
135°	171.5	169.3	165.0	165.0	175.7	201.5	229.3	237.9	235.8	214.3	207.9
137.5°	167.2	162.9	162.9	162.9	173.6	199.3	216.5	222.9	220.8	199.3	192.9
140°	160.7	158.6	154.3	154.3	169.3	192.9	203.6	205.7	203.6	186.5	180.0
142.5°	150.0	147.9	145.7	150.0	165.0	182.2	190.7	190.7	188.6	177.9	169.3
145°	143.6	141.5	139.3	150.0	162.9	171.5	180.0	173.6	173.6	167.2	158.6
147.5°	137.2	135.0	135.0	143.6	154.3	154.3	160.7	158.6	160.7	158.6	150.0
150°	124.3	122.2	122.2	128.6	130.7	130.7	137.2	137.2	137.2	137.2	130.7
152.5°	109.3	107.2	109.3	111.4	111.4	111.4	115.7	117.9	117.9	115.7	113.6
155°	94.3	94.3	94.3	96.4	96.4	94.3	100.7	100.7	100.7	100.7	98.6
157.5°	83.6	83.6	83.6	83.6	83.6	81.4	85.7	85.7	87.9	85.7	85.7
160°	72.9	70.7	70.7	70.7	70.7	68.6	70.7	70.7	70.7	72.9	72.9
162.5°	57.9	55.7	55.7	55.7	55.7	51.4	55.7	53.6	55.7	55.7	57.9
165°	47.2	45.0	45.0	45.0	42.9	40.7	42.9	40.7	40.7	40.7	42.9
167.5°	36.4	36.4	34.3	36.4	34.3	30.0	30.0	27.9	27.9	27.9	27.9
170°	27.9	25.7	23.6	25.7	23.6	19.3	19.3	17.1	17.1	15.0	15.0
172.5°	19.3	17.1	15.0	17.1	15.0	10.7	10.7	6.4	6.4	6.4	6.4
175°	17.1	15.0	12.9	15.0	12.9	8.6	6.4	4.3	4.3	4.3	4.3
177.5°	17.1	15.0	12.9	15.0	12.9	8.6	6.4	4.3	4.3	4.3	4.3
180°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4	126.4
2.5°	128.6	126.4	124.3	128.6	126.4	128.6	130.7	132.9	132.9	130.7	130.7
5°	147.9	145.7	141.5	139.3	135.0	135.0	135.0	139.3	139.3	137.2	139.3
7.5°	175.7	171.5	165.0	160.7	154.3	154.3	152.2	156.5	158.6	154.3	156.5
10°	197.2	195.0	186.5	180.0	173.6	171.5	171.5	173.6	173.6	171.5	171.5
12.5°	216.5	212.2	203.6	197.2	188.6	186.5	186.5	188.6	188.6	186.5	186.5
15°	244.3	231.5	222.9	216.5	207.9	205.7	203.6	205.7	207.9	203.6	203.6
17.5°	282.9	267.9	248.6	231.5	222.9	227.2	229.3	231.5	229.3	222.9	222.9
20°	304.3	295.8	270.0	257.2	246.5	246.5	246.5	246.5	246.5	244.3	246.5
22.5°	319.3	306.5	274.3	265.8	259.3	263.6	267.9	270.0	270.0	267.9	267.9
25°	387.9	340.8	308.6	302.2	293.6	295.8	291.5	291.5	293.6	291.5	295.8
27.5°	533.7	456.5	383.6	357.9	351.5	351.5	355.8	355.8	355.8	355.8	353.6
30°	640.8	550.8	430.8	396.5	392.2	411.5	422.2	430.8	426.5	420.1	420.1
32.5°	658.0	559.4	439.4	426.5	437.2	452.2	462.9	469.4	475.8	473.7	471.5
35°	621.5	516.5	432.9	450.1	458.6	467.2	469.4	465.1	484.4	492.9	495.1
37.5°	694.4	578.7	503.7	516.5	505.8	497.2	501.5	503.7	529.4	542.2	555.1
40°	887.3	698.7	572.2	565.8	559.4	578.7	604.4	617.2	615.1	606.5	608.7
42.5°	1073.8	816.6	645.1	643.0	640.8	675.1	715.8	713.7	694.4	679.4	679.4
45°	1264.5	930.2	760.8	763.0	758.7	771.6	782.3	773.7	775.8	780.1	784.4
47.5°	1382.4	1033.0	833.7	827.3	799.4	825.1	855.1	835.9	829.4	818.7	823.0
50°	1410.2	1058.8	876.6	923.7	898.0	878.7	846.6	833.7	857.3	874.4	887.3
52.5°	1832.5	1307.4	1095.2	1170.2	1135.9	1067.3	1060.9	1039.5	1065.2	1067.3	1082.3
55°	3071.2	2096.1	1508.8	1581.7	1583.8	1560.3	1667.4	1607.4	1553.8	1530.3	1521.7
57.5°	4841.5	3240.5	1952.5	2044.6	2132.5	2216.1	2361.8	2239.7	2085.4	2066.1	2087.5
60°	6200.3	4575.8	2490.4	2749.7	2867.6	2871.9	2891.2	2771.2	2676.9	2685.5	2715.5
62.5°	6491.8	5690.2	3172.0	3279.1	3289.8	3210.5	3244.8	3322.0	3189.1	3084.1	3112.0
65°	6296.8	6131.7	3394.9	3116.2	3099.1	3112.0	3345.6	3559.9	3292.0	3026.2	3026.2
67.5°	5919.6	5795.3	3167.7	2803.3	2850.5	2996.2	3292.0	3399.1	3114.1	2831.2	2831.2
70°	5516.6	5268.0	2912.6	2554.7	2670.5	2839.8	3032.7	3041.2	2874.1	2672.6	2659.7
72.5°	5081.6	4856.5	2803.3	2481.8	2535.4	2565.4	2670.5	2736.9	2717.6	2586.9	2584.7
75°	4953.0	4770.8	2801.2	2447.6	2415.4	2404.7	2477.6	2621.2	2687.6	2610.4	2614.7
77.5°	4757.9	4648.6	2670.5	2304.0	2269.7	2269.7	2308.2	2424.0	2524.7	2492.6	2503.3
80°	4622.9	4457.9	2471.1	2147.5	2100.4	2106.8	2111.1	2190.4	2284.7	2289.0	2289.0
82.5°	4363.6	4052.8	2168.9	1913.9	1881.7	1890.3	1875.3	1920.3	1946.0	1978.2	1971.8
85°	3937.1	3497.7	1832.5	1658.9	1607.4	1590.3	1577.4	1579.6	1594.6	1588.1	1562.4
87.5°	3298.4	2773.3	1461.7	1360.9	1300.9	1258.1	1240.9	1219.5	1217.3	1193.8	1202.3
90°	2434.7	1903.2	1084.5	1048.0	1005.2	960.2	936.6	915.2	898.0	874.4	865.9
92.5°	1588.1	1225.9	793.0	773.7	745.8	720.1	709.4	698.7	694.4	675.1	681.5
95°	992.3	829.4	595.8	574.4	559.4	553.0	555.1	557.2	553.0	531.5	537.9
97.5°	662.3	600.1	465.1	450.1	435.1	432.9	435.1	439.4	441.5	426.5	430.8
100°	488.7	460.8	381.5	370.8	357.9	353.6	355.8	360.1	362.2	349.3	351.5
102.5°	387.9	375.1	330.1	325.8	310.8	306.5	310.8	312.9	315.1	306.5	306.5
105°	340.8	340.8	304.3	302.2	291.5	287.2	289.3	291.5	293.6	285.0	285.0
107.5°	327.9	330.1	293.6	295.8	289.3	287.2	291.5	295.8	293.6	287.2	285.0
110°	338.6	342.9	293.6	300.1	302.2	306.5	315.1	317.2	317.2	312.9	315.1



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	349.3	355.8	289.3	304.3	319.3	330.1	345.1	353.6	349.3	347.2	349.3
115°	340.8	345.1	270.0	293.6	321.5	336.5	340.8	340.8	330.1	330.1	332.2
117.5°	330.1	338.6	250.8	270.0	289.3	302.2	300.1	293.6	280.8	276.5	289.3
120°	306.5	332.2	240.0	244.3	246.5	250.8	244.3	237.9	227.2	225.0	233.6
122.5°	282.9	306.5	220.8	216.5	214.3	214.3	212.2	210.0	203.6	205.7	214.3
125°	263.6	276.5	201.5	195.0	192.9	195.0	195.0	195.0	190.7	186.5	186.5
127.5°	248.6	252.9	190.7	182.2	180.0	180.0	180.0	182.2	180.0	173.6	173.6
130°	240.0	237.9	184.3	169.3	167.2	169.3	169.3	171.5	167.2	162.9	162.9
132.5°	222.9	218.6	175.7	160.7	158.6	160.7	160.7	160.7	156.5	152.2	152.2
135°	203.6	199.3	165.0	150.0	147.9	150.0	150.0	152.2	147.9	143.6	143.6
137.5°	188.6	184.3	154.3	141.5	139.3	139.3	141.5	141.5	139.3	135.0	135.0
140°	175.7	171.5	143.6	132.9	128.6	130.7	130.7	130.7	128.6	124.3	124.3
142.5°	165.0	162.9	132.9	122.2	117.9	120.0	120.0	122.2	117.9	113.6	113.6
145°	156.5	152.2	124.3	111.4	109.3	109.3	109.3	111.4	107.2	102.9	102.9
147.5°	147.9	143.6	113.6	100.7	98.6	98.6	98.6	98.6	96.4	92.2	90.0
150°	130.7	128.6	105.0	92.2	87.9	87.9	87.9	85.7	81.4	77.2	77.2
152.5°	111.4	109.3	92.2	81.4	77.2	77.2	75.0	75.0	70.7	68.6	66.4
155°	96.4	96.4	83.6	72.9	68.6	66.4	64.3	64.3	62.2	60.0	57.9
157.5°	85.7	83.6	75.0	66.4	57.9	57.9	55.7	55.7	53.6	51.4	49.3
160°	72.9	72.9	64.3	55.7	49.3	47.2	47.2	45.0	42.9	40.7	40.7
162.5°	57.9	57.9	51.4	45.0	38.6	38.6	36.4	36.4	34.3	32.1	30.0
165°	40.7	40.7	38.6	34.3	30.0	27.9	27.9	27.9	25.7	23.6	23.6
167.5°	27.9	27.9	25.7	23.6	21.4	19.3	21.4	21.4	19.3	17.1	17.1
170°	15.0	15.0	12.9	12.9	10.7	10.7	12.9	15.0	12.9	10.7	8.6
172.5°	6.4	6.4	6.4	6.4	4.3	6.4	8.6	10.7	8.6	6.4	6.4
175°	4.3	4.3	6.4	6.4	4.3	6.4	8.6	10.7	8.6	6.4	6.4
177.5°	4.3	4.3	6.4	6.4	4.3	6.4	8.6	10.7	8.6	6.4	6.4
180°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6

(END OF REPORT)