

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: P588411

Luminaire Tested: **ARC-CA6-120-750-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588411
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: STREETWORKS
Catalog Number: ARC-CA6-120-750-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11212 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U3 - G4

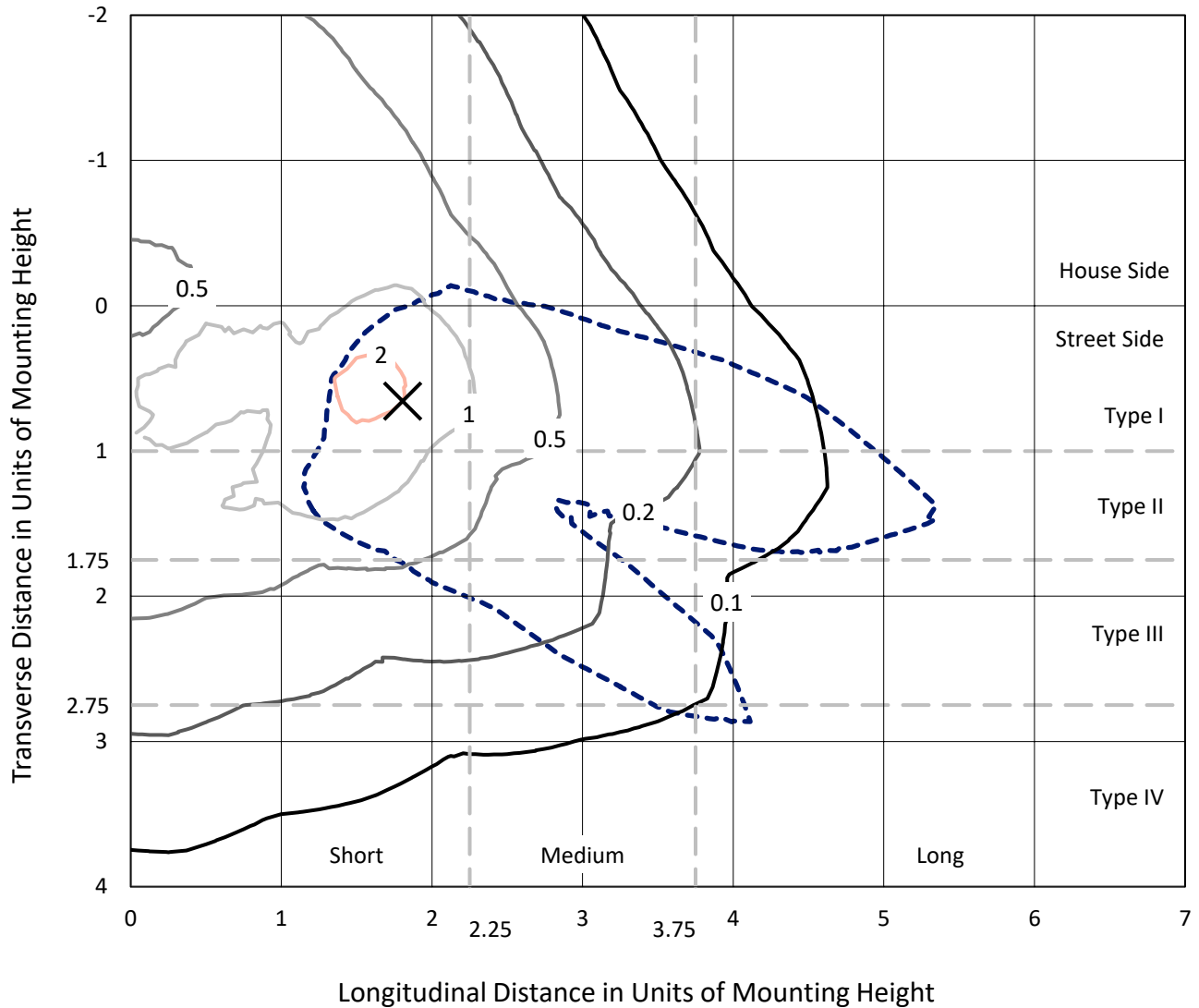
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

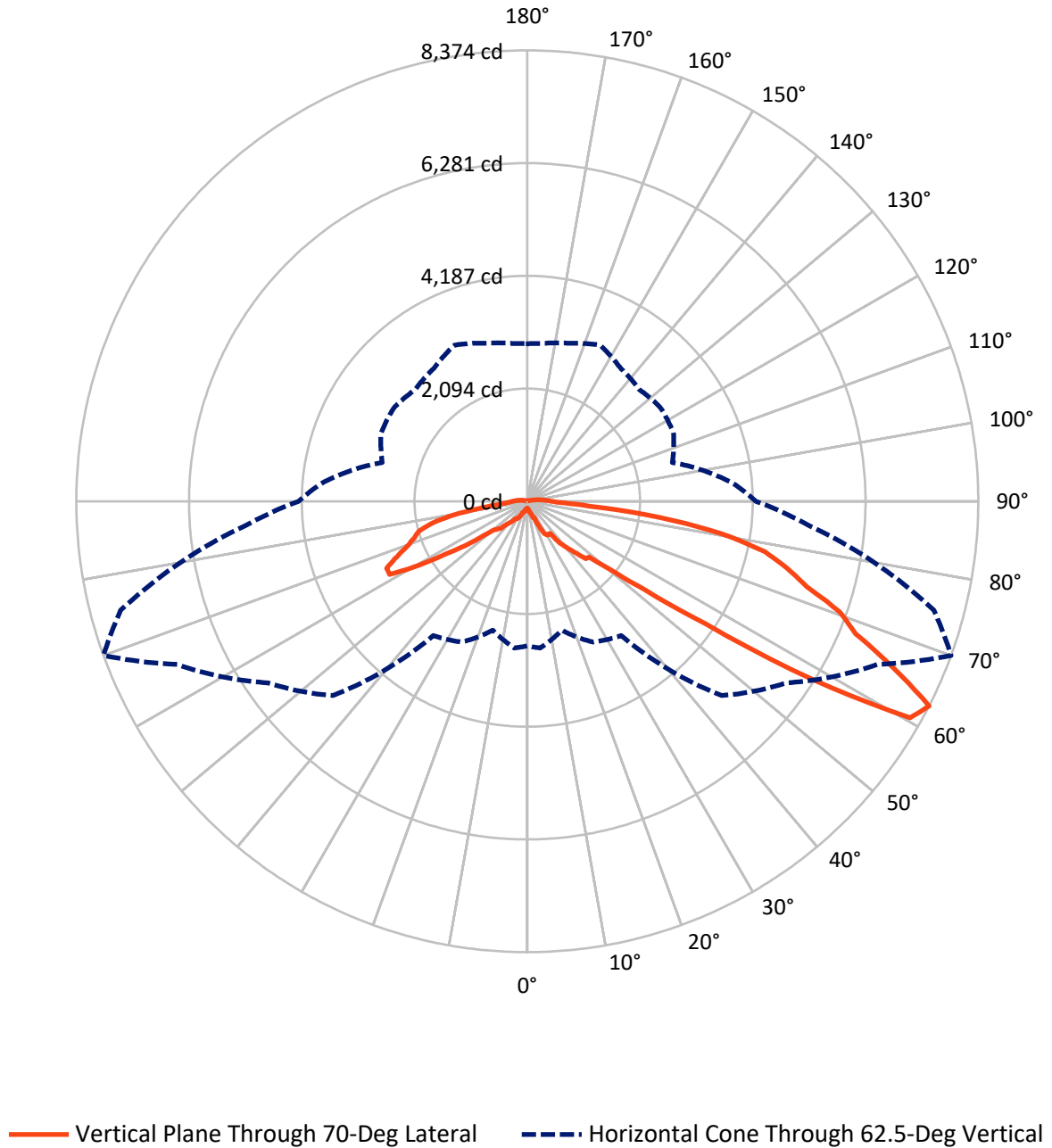
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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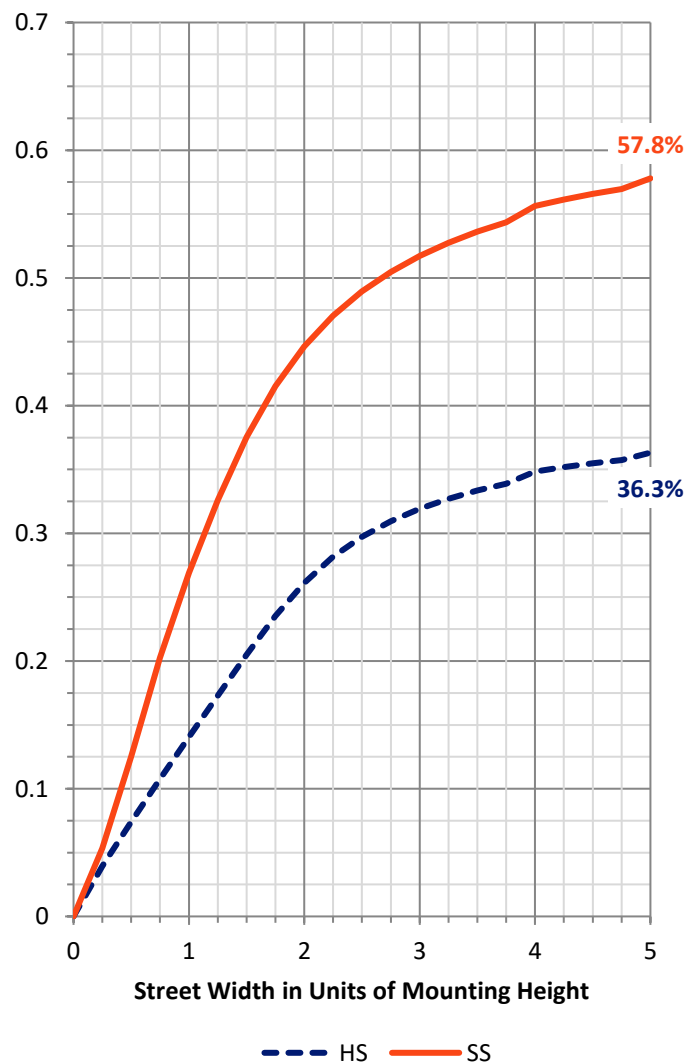
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4155.4	152.3	4307.8
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	6694.9	209.3	6904.2
	% Fixture	59.7	1.9	61.6
Total	Lumens	10850.3	361.7	11212.0
	% Fixture	96.8	3.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.1
10°-20°	61.0	0.5
20°-30°	189.1	1.7
30°-40°	405.7	3.6
40°-50°	760.0	6.8
50°-60°	1972.1	17.6
60°-70°	3612.5	32.2
70°-80°	2897.6	25.8
80°-90°	938.3	8.4
90°-100°	247.2	2.2
100°-110°	80.4	0.7
110°-120°	31.5	0.3
120°-130°	2.5	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°	10850.3	96.8
0°-180°	11212.0	100.0



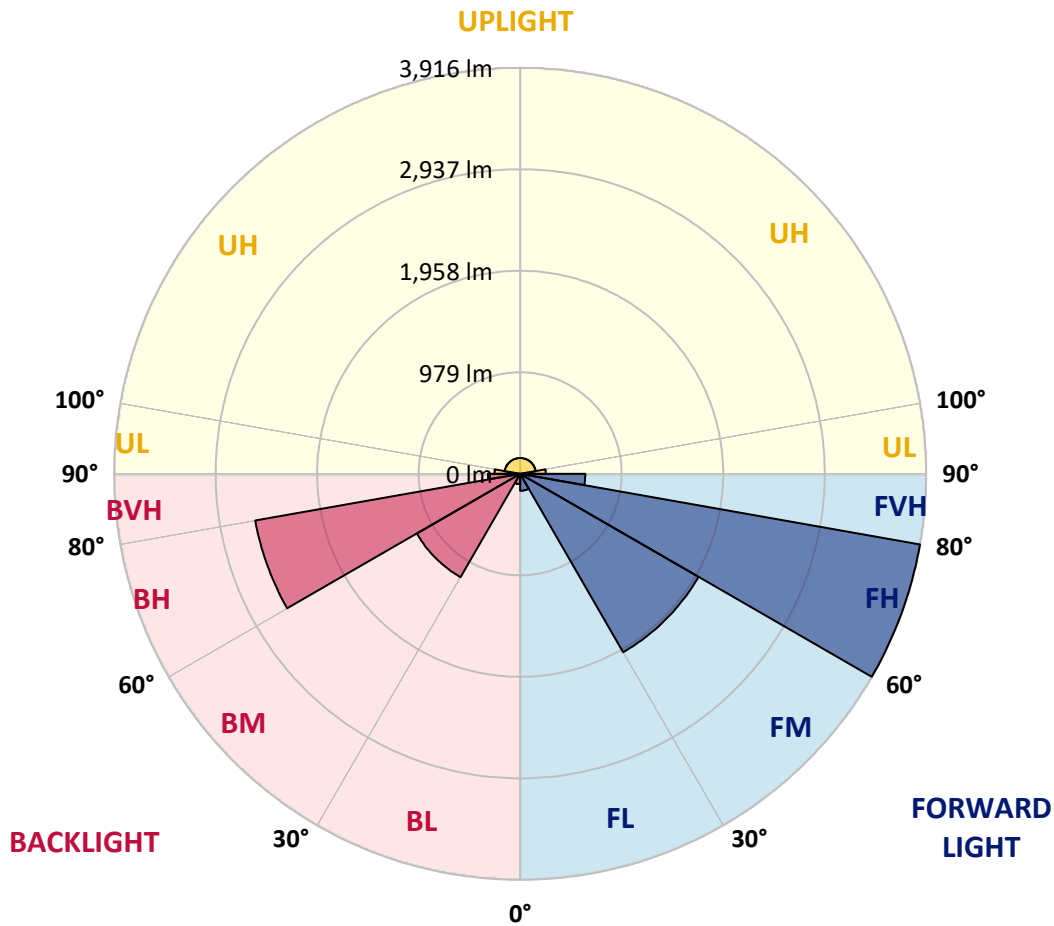
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.5	1.5			
FM (30°-60°)	1986.6	17.7			
FH (60°-80°)	3916.1	34.9			G2/5000
FVH (80°-90°)	627.7	5.6			G4/750
BL (0°-30°)	99.8	0.9	B0/110		
BM (30°-60°)	1151.1	10.3	B2/2500		
BH (60°-80°)	2594.0	23.1	B4/5000		G4/5000
BVH (80°-90°)	310.6	2.8			G3/500
UL (90°-100°)	247.2	2.2		U3/500	
UH (100°-180°)	152.3	1.4		U3/500	

BUG Rating: B4-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
2.5°	143.6	143.6	143.6	141.5	139.3	137.2	135.0	135.0	132.9	130.7	128.6
5°	156.5	154.3	152.2	147.9	145.7	145.7	143.6	143.6	143.6	141.5	139.3
7.5°	173.6	173.6	171.5	169.3	167.2	165.0	162.9	160.8	160.8	158.6	156.5
10°	197.2	197.2	197.2	195.0	195.0	192.9	188.6	186.5	182.2	180.0	173.6
12.5°	220.8	222.9	218.6	218.6	218.6	216.5	212.2	210.1	205.8	201.5	192.9
15°	244.3	242.2	240.1	237.9	242.2	242.2	240.1	240.1	231.5	225.1	210.1
17.5°	265.8	265.8	267.9	267.9	274.4	272.2	272.2	270.1	265.8	255.1	235.8
20°	300.1	302.2	302.2	302.2	323.7	332.2	334.4	336.5	330.1	308.6	270.1
22.5°	334.4	336.5	351.5	347.2	347.2	347.2	368.7	357.9	330.1	304.4	282.9
25°	452.3	458.7	463.0	478.0	495.1	542.3	617.3	593.7	550.8	463.0	390.1
27.5°	565.9	574.4	651.6	758.8	773.8	718.0	771.6	700.9	679.5	589.4	529.4
30°	617.3	632.3	765.2	838.1	863.8	790.9	868.1	733.0	726.6	662.3	610.9
32.5°	630.2	640.9	786.6	795.2	801.6	793.0	908.8	743.8	728.7	664.4	589.4
35°	610.9	623.7	722.3	673.0	675.2	827.3	1043.8	801.6	733.0	621.6	538.0
37.5°	752.3	752.3	835.9	848.8	904.5	1088.8	1367.5	1058.8	981.7	810.2	707.3
40°	857.4	868.1	1001.0	1050.3	1058.8	1215.3	1712.6	1241.0	1131.7	906.6	827.3
42.5°	998.8	996.7	1118.8	1153.1	1176.7	1234.6	1751.1	1427.5	1298.9	1026.7	966.7
45°	1022.4	1056.7	1168.1	1129.6	1159.6	1307.5	1828.3	1691.1	1519.7	1253.9	1129.6
47.5°	928.1	975.2	1200.3	1168.1	1048.1	1116.7	1466.1	1736.1	1547.5	1288.2	1200.3
50°	1001.0	1026.7	1138.1	1116.7	955.9	1187.4	1609.7	2175.5	1965.5	1532.5	1307.5
52.5°	1294.6	1350.3	1369.6	1453.2	1376.0	1776.9	2252.7	2756.4	2728.5	2218.4	1725.4
55°	1663.3	1744.7	1830.4	2147.7	2192.7	2790.7	3144.3	3682.3	4016.7	3508.7	2647.1
57.5°	2061.9	2177.7	2149.8	2610.6	2681.4	3780.9	4106.7	5367.0	6260.8	5570.6	3877.4
60°	2447.7	2524.9	2368.4	2773.5	2908.6	4760.4	5238.4	6989.6	8166.3	7431.1	4775.4
62.5°	2685.7	2735.0	2477.7	2885.0	3043.6	5101.2	5879.3	7171.7	8374.2	7814.8	5262.0
65°	2683.5	2670.6	2377.0	2730.7	2709.2	4709.0	5682.1	6027.2	7480.4	7386.1	5324.2
67.5°	2578.5	2582.8	2274.1	2554.9	2467.0	4151.7	5264.1	5099.1	6575.9	6702.3	5178.4
70°	2477.7	2529.2	2235.5	2479.9	2439.2	3993.1	5081.9	4589.0	6151.5	6391.6	5024.1
72.5°	2336.3	2385.6	2109.1	2323.4	2338.4	3675.9	4771.2	4006.0	5424.9	5714.2	4503.2
75°	2334.1	2396.3	2136.9	2325.6	2349.1	3495.8	4809.7	3804.5	4989.8	5377.7	4203.2
77.5°	2201.2	2257.0	2016.9	2192.7	2259.1	3163.6	4589.0	3553.7	4507.5	4942.6	3810.9
80°	1768.3	1843.3	1646.1	1761.9	1798.3	2372.7	3680.2	2910.7	3667.3	4102.4	3114.3
82.5°	1208.9	1277.5	1146.7	1232.4	1279.6	1556.1	2544.2	2096.2	2492.7	2758.5	1950.5
85°	698.7	780.2	703.0	692.3	715.9	820.9	1369.6	1114.6	1159.6	1219.6	865.9
87.5°	439.4	452.3	413.7	415.8	420.1	450.1	623.7	497.3	548.7	621.6	525.1
90°	349.4	362.2	334.4	336.5	330.1	357.9	467.3	379.4	422.2	486.5	415.8
92.5°	302.2	310.8	291.5	295.8	291.5	312.9	390.1	312.9	347.2	398.7	340.8
95°	257.2	263.6	252.9	255.1	242.2	255.1	304.4	237.9	263.6	300.1	255.1
97.5°	205.8	212.2	205.8	205.8	192.9	199.3	233.6	184.3	201.5	225.1	192.9
100°	162.9	165.0	162.9	160.8	150.0	150.0	162.9	132.9	139.3	154.3	132.9
102.5°	124.3	126.5	124.3	122.2	109.3	102.9	102.9	85.7	90.0	94.3	83.6
105°	98.6	100.7	98.6	94.3	83.6	77.2	75.0	62.2	62.2	64.3	57.9
107.5°	81.4	81.4	81.4	77.2	70.7	62.2	55.7	45.0	45.0	47.2	45.0
110°	66.4	66.4	64.3	62.2	55.7	49.3	42.9	36.4	36.4	36.4	34.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	55.7	55.7	53.6	51.4	45.0	38.6	34.3	30.0	30.0	30.0	27.9
115°	47.2	47.2	45.0	42.9	38.6	32.2	27.9	23.6	23.6	23.6	23.6
117.5°	40.7	40.7	38.6	36.4	32.2	27.9	23.6	19.3	19.3	19.3	19.3
120°	36.4	34.3	32.2	30.0	25.7	23.6	19.3	17.1	17.1	17.1	15.0
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°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
2.5°	128.6	128.6	126.5	126.5	126.5	124.3	124.3	126.5	126.5	126.5	126.5
5°	137.2	135.0	130.7	126.5	124.3	122.2	120.0	120.0	124.3	124.3	124.3
7.5°	154.3	152.2	145.7	141.5	137.2	132.9	130.7	128.6	130.7	132.9	132.9
10°	171.5	169.3	160.8	154.3	152.2	147.9	145.7	143.6	145.7	145.7	145.7
12.5°	188.6	184.3	177.9	169.3	165.0	162.9	160.8	158.6	158.6	158.6	158.6
15°	203.6	197.2	190.8	184.3	180.0	175.8	173.6	171.5	173.6	175.8	175.8
17.5°	227.2	220.8	205.8	195.0	192.9	188.6	186.5	186.5	188.6	190.8	190.8
20°	252.9	240.1	222.9	212.2	210.1	203.6	201.5	201.5	203.6	205.8	205.8
22.5°	274.4	265.8	240.1	225.1	222.9	220.8	222.9	222.9	225.1	227.2	227.2
25°	349.4	315.1	278.6	267.9	265.8	261.5	257.2	255.1	257.2	263.6	265.8
27.5°	471.5	409.4	340.8	317.2	317.2	321.5	330.1	334.4	325.8	321.5	323.7
30°	553.0	469.4	370.8	349.4	353.7	375.1	394.4	407.2	398.7	392.2	394.4
32.5°	531.6	454.4	383.7	379.4	392.2	409.4	420.1	426.5	443.7	450.1	458.7
35°	484.4	426.5	388.0	405.1	413.7	413.7	413.7	413.7	445.8	475.8	484.4
37.5°	591.6	493.0	460.8	467.3	460.8	454.4	460.8	478.0	505.8	529.4	535.8
40°	694.5	570.1	516.6	512.3	510.1	531.6	570.1	600.1	608.7	587.3	591.6
42.5°	808.1	645.2	576.6	583.0	600.1	634.4	677.3	677.3	677.3	658.0	664.4
45°	915.2	733.0	692.3	709.5	709.5	726.6	750.2	735.2	754.5	763.0	773.8
47.5°	1041.7	850.9	760.9	745.9	748.0	782.3	790.9	784.5	797.3	782.3	782.3
50°	1080.3	870.2	799.5	857.4	857.4	818.8	786.6	790.9	827.3	868.1	876.6
52.5°	1373.9	1078.1	1013.8	1073.8	1099.6	1033.1	1033.1	1041.7	1050.3	1080.3	1088.8
55°	2055.5	1536.8	1343.9	1483.2	1502.5	1543.2	1654.7	1637.5	1538.9	1489.6	1485.4
57.5°	3073.6	2280.6	1674.0	1871.2	1995.5	2162.7	2246.3	2197.0	2064.1	2019.1	1969.8
60°	3928.8	3122.9	2169.1	2512.0	2698.5	2726.4	2696.4	2700.7	2599.9	2632.1	2619.2
62.5°	4246.0	3832.4	2788.5	2996.4	3024.3	2938.6	3017.9	3200.1	3037.2	2940.7	2925.7
65°	4340.3	4096.0	2962.1	2827.1	2801.4	2786.4	3099.3	3403.7	3039.3	2814.3	2812.1
67.5°	4246.0	3825.9	2741.4	2518.5	2578.5	2700.7	3107.9	3221.5	2878.6	2629.9	2612.8
70°	4123.9	3390.8	2467.0	2274.1	2413.4	2591.3	2850.7	2805.7	2670.6	2449.9	2439.2
72.5°	3680.2	2938.6	2291.3	2130.5	2289.1	2340.6	2469.2	2449.9	2488.5	2349.1	2342.7
75°	3294.4	2698.5	2186.2	1997.6	2074.8	2066.2	2169.1	2192.7	2302.0	2242.0	2218.4
77.5°	2842.1	2347.0	1926.9	1708.3	1738.3	1736.1	1785.4	1800.4	1877.6	1881.9	1856.2
80°	2224.8	1839.0	1504.7	1286.0	1290.3	1251.7	1258.2	1256.0	1271.0	1288.2	1264.6
82.5°	1277.5	1026.7	853.1	713.7	683.7	632.3	621.6	625.9	619.4	615.1	615.1
85°	625.9	486.5	448.0	400.8	383.7	370.8	377.2	390.1	396.5	383.7	377.2
87.5°	422.2	364.4	347.2	327.9	319.4	306.5	315.1	325.8	334.4	323.7	321.5
90°	334.4	289.4	285.1	280.8	274.4	263.6	272.2	285.1	291.5	282.9	278.6
92.5°	270.1	233.6	233.6	231.5	225.1	216.5	227.2	237.9	244.3	237.9	235.8
95°	207.9	180.0	186.5	182.2	175.8	173.6	180.0	188.6	192.9	188.6	188.6
97.5°	160.8	141.5	147.9	145.7	137.2	135.0	139.3	145.7	150.0	145.7	143.6
100°	109.3	100.7	109.3	109.3	100.7	96.5	100.7	107.2	109.3	109.3	107.2
102.5°	72.9	68.6	79.3	81.4	77.2	72.9	75.0	79.3	81.4	81.4	81.4
105°	51.4	51.4	62.2	64.3	60.0	55.7	60.0	62.2	62.2	62.2	62.2
107.5°	40.7	42.9	49.3	53.6	49.3	45.0	47.2	49.3	49.3	49.3	51.4
110°	34.3	34.3	40.7	45.0	40.7	38.6	38.6	38.6	38.6	40.7	45.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.9	30.0	34.3	36.4	34.3	32.2	32.2	32.2	32.2	34.3	40.7
115°	23.6	25.7	30.0	30.0	27.9	27.9	27.9	25.7	25.7	27.9	38.6
117.5°	19.3	21.4	23.6	23.6	23.6	21.4	21.4	21.4	21.4	25.7	40.7
120°	17.1	17.1	19.3	19.3	17.1	17.1	17.1	17.1	15.0	21.4	32.2
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)