

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: P588582

Luminaire Tested: **ARC-CA6-110-740-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588582
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-CA6-110-740-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: 7321 lumens
Efficiency: N/A
Efficacy: 129.6 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

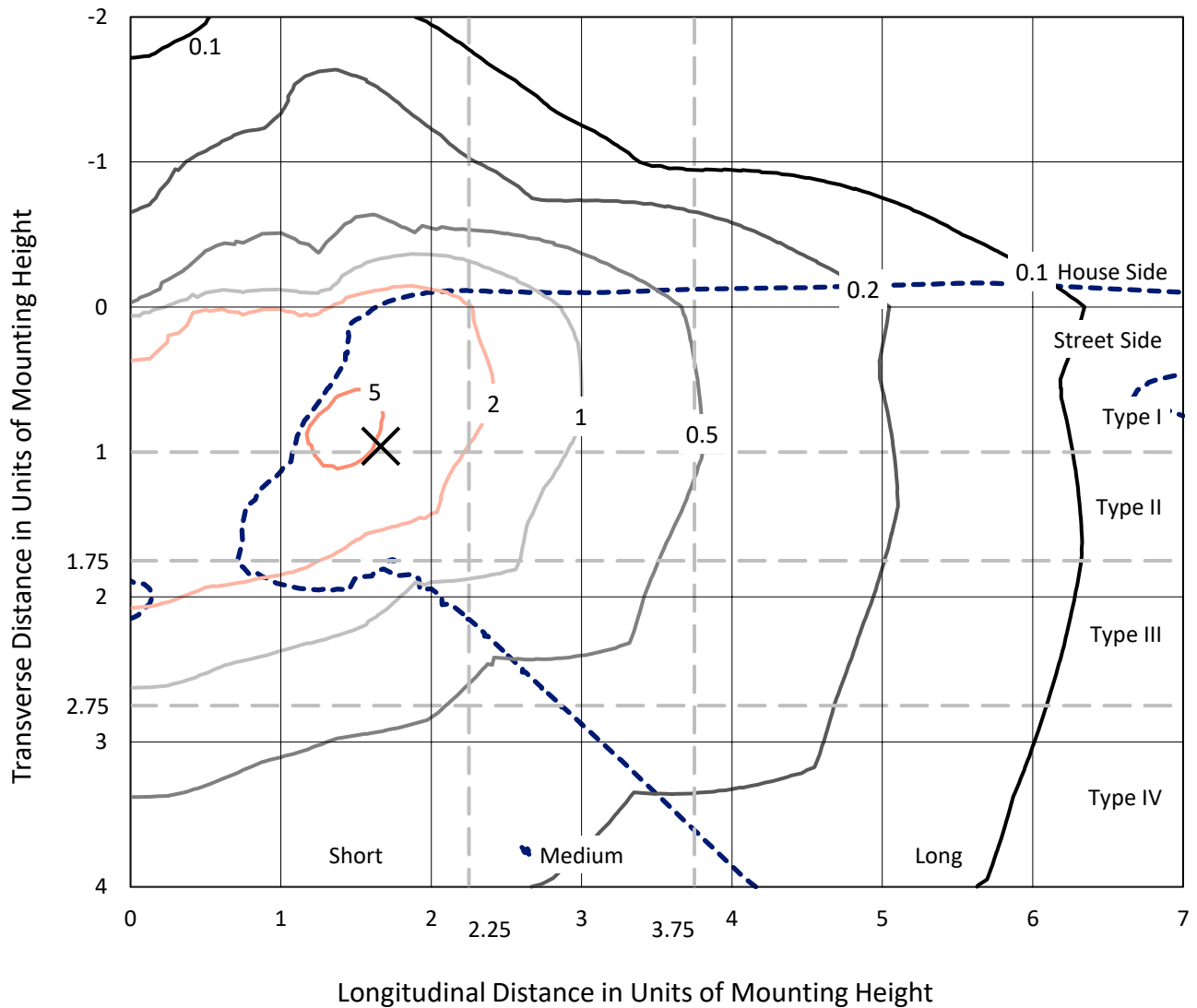
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

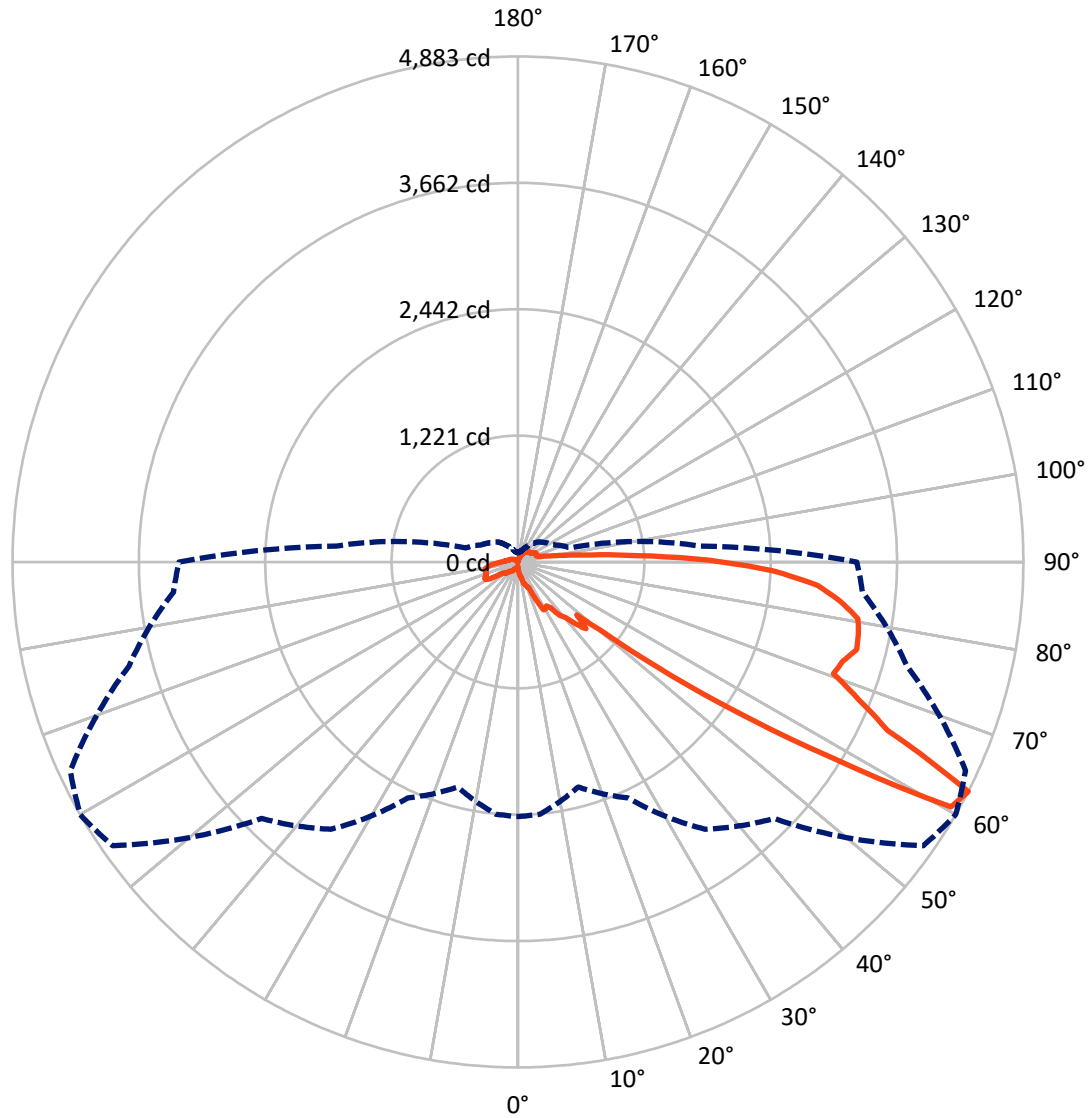
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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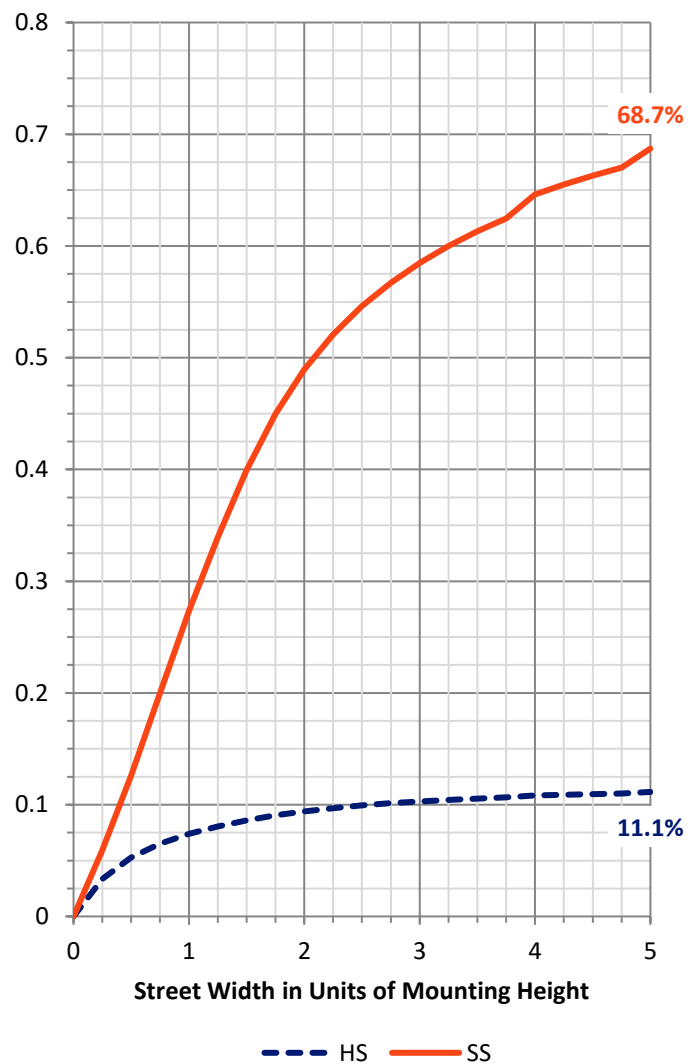
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.8	171.2	1030.1
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5592.2	698.8	6291.0
	% Fixture	76.4	9.5	85.9
Total	Lumens	6451.0	870.0	7321.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	35.2	0.5
20°-30°	104.7	1.4
30°-40°	210.3	2.9
40°-50°	370.2	5.1
50°-60°	1022.1	14.0
60°-70°	1767.2	24.1
70°-80°	1640.3	22.4
80°-90°	1293.4	17.7
90°-100°	410.4	5.6
100°-110°	146.4	2.0
110°-120°	120.3	1.6
120°-130°	79.1	1.1
130°-140°	56.3	0.8
140°-150°	36.4	0.5
150°-160°	16.7	0.2
160°-170°	4.1	0.1
170°-180°	0.2	0.0
0°-90°	6451.0	88.1
0°-180°	7321.0	100.0

Coefficient of Utilization



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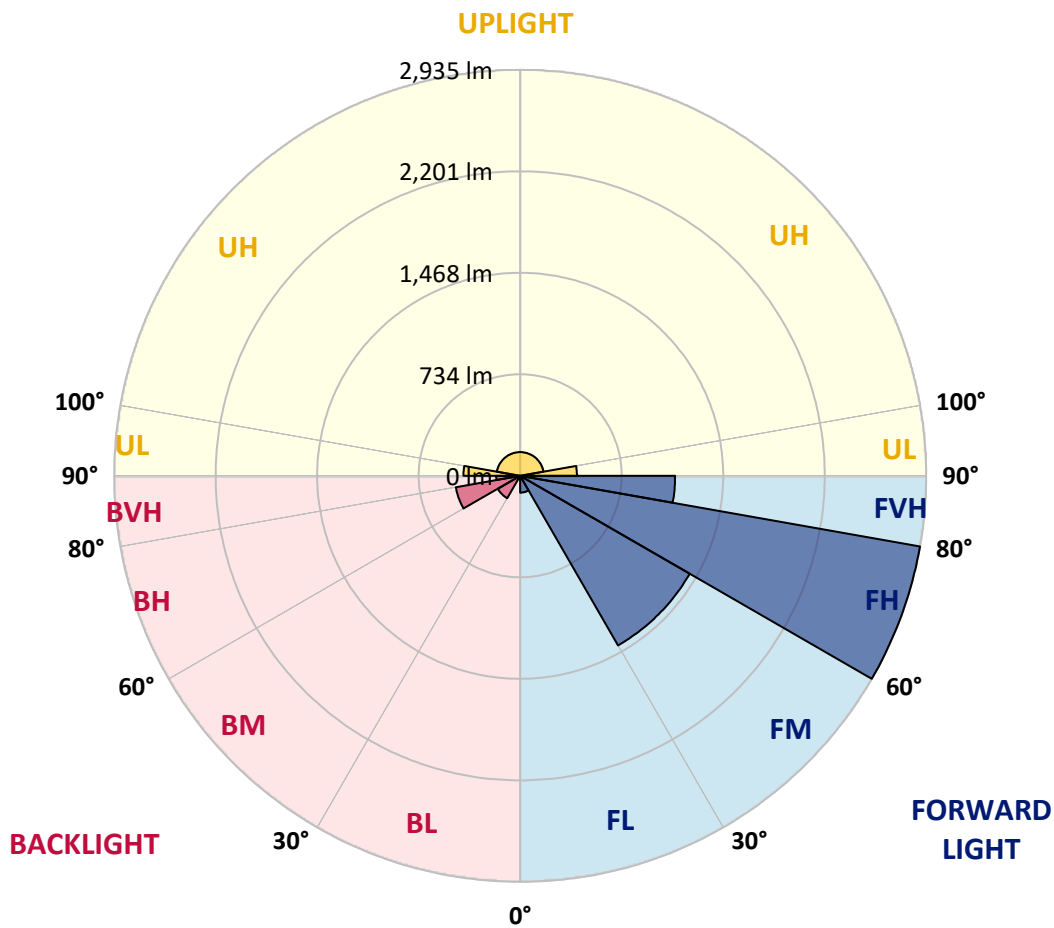
CATALOG NUMBER: ARC-CA6-110-740-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.5	1.7			
FM (30°-60°)	1415.6	19.3			
FH (60°-80°)	2935.1	40.1			G2/5000
FVH (80°-90°)	1120.0	15.3			G5
BL (0°-30°)	26.0	0.4	B0/110		
BM (30°-60°)	187.0	2.6	B0/220		
BH (60°-80°)	472.4	6.5	B1/500		G1/500
BVH (80°-90°)	173.4	2.4			G2/225
UL (90°-100°)	410.4	5.6		U3/500	
UH (100°-180°)	171.2	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°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	86.8	84.5	85.6	85.6	86.8	82.2	77.7	74.4	71.0	66.5	60.8
5°	123.9	121.7	118.3	117.2	114.9	110.4	103.7	101.4	94.6	85.6	74.4
7.5°	151.0	149.8	148.7	145.3	143.1	136.3	128.4	125.1	117.2	104.8	91.3
10°	171.3	171.3	172.4	166.7	156.6	151.0	144.2	142.0	136.3	119.4	102.5
12.5°	188.2	185.9	176.9	172.4	167.9	169.0	170.1	169.0	166.7	138.6	114.9
15°	203.9	201.7	194.9	189.3	185.9	197.2	222.0	219.7	218.6	174.6	134.1
17.5°	215.2	215.2	222.0	226.5	232.1	215.2	210.7	217.4	225.3	192.7	152.1
20°	247.9	243.4	237.7	233.2	261.4	249.0	253.5	261.4	267.0	215.2	166.7
22.5°	233.2	234.3	259.1	268.1	254.6	247.9	263.6	267.0	268.1	246.7	173.5
25°	318.8	304.2	295.2	323.4	321.1	370.7	385.3	395.5	395.5	334.6	242.2
27.5°	440.5	440.5	478.8	553.2	540.8	541.9	525.0	523.9	545.3	565.6	368.4
30°	477.7	490.1	597.1	634.3	674.9	624.2	569.0	526.2	535.2	644.5	429.3
32.5°	489.0	500.2	629.8	589.2	603.9	583.6	591.5	504.7	483.3	593.8	418.0
35°	427.0	442.8	548.7	496.9	468.7	529.5	602.8	540.8	530.7	487.8	378.6
37.5°	570.1	578.0	615.2	607.3	616.3	619.7	707.5	651.2	662.5	589.2	478.8
40°	654.6	645.6	790.9	825.8	812.3	799.9	792.0	705.3	718.8	682.8	647.8
42.5°	804.4	794.3	896.8	918.2	921.6	888.9	926.1	816.8	783.0	708.7	806.7
45°	814.6	820.2	917.1	861.9	919.4	979.1	1046.7	920.5	859.6	734.6	937.4
47.5°	721.1	745.9	958.8	910.3	854.0	801.1	827.0	762.8	713.2	581.4	901.3
50°	735.7	745.9	882.2	824.7	686.1	849.5	1077.1	1030.9	976.8	721.1	868.7
52.5°	1041.0	1036.5	1096.2	1099.6	1134.6	1275.4	1724.9	1687.7	1696.8	1403.8	1293.4
55°	1427.5	1425.2	1576.2	1817.3	2016.7	2085.5	2672.5	2526.0	2459.5	2175.6	2283.8
57.5°	1845.5	1864.6	1931.1	2269.1	2610.5	2699.5	3618.8	3543.4	3396.9	2838.1	3126.5
60°	2286.0	2274.7	2176.7	2398.7	2945.1	3389.0	4768.0	4804.1	4512.3	3572.7	3412.7
62.5°	2459.5	2444.9	2250.0	2514.7	3151.3	3503.9	4779.3	4883.0	4771.4	3890.4	3340.6
65°	2430.2	2396.4	2137.3	2345.7	2660.1	2981.2	4266.7	3923.0	4105.6	3978.3	3158.0
67.5°	2315.3	2307.4	2066.3	2181.2	2386.3	2428.0	3897.1	3550.1	3615.5	4057.1	3212.1
70°	2171.1	2168.8	1986.3	2073.1	2364.9	2322.1	3607.6	3234.7	3196.4	3631.2	3225.6
72.5°	2175.6	2173.3	1971.7	2001.0	2314.2	2244.3	3577.2	3279.7	3209.9	3421.7	3070.2
75°	2212.8	2215.0	2001.0	2033.6	2385.2	2260.1	3649.3	3380.0	3309.0	3401.4	2946.2
77.5°	2176.7	2194.7	1984.1	2057.3	2430.2	2257.8	3615.5	3360.8	3260.6	3234.7	2709.6
80°	2056.2	2081.0	1891.7	1976.2	2389.7	2288.3	3587.3	3331.5	3204.2	3062.3	2539.5
82.5°	1803.8	1829.7	1684.4	1762.1	2222.9	2163.2	3390.1	3142.3	3028.5	2780.6	2317.6
85°	1550.3	1610.0	1539.0	1550.3	1962.7	1980.7	3124.2	2905.7	2826.8	2610.5	2242.1
87.5°	1279.9	1331.7	1265.2	1185.3	1470.3	1574.0	2583.4	2475.3	2453.9	2304.0	1945.8
90°	947.5	994.8	955.4	850.6	996.0	1061.3	1904.1	1844.4	1890.5	1719.3	1337.4
92.5°	687.3	695.2	649.0	562.2	663.6	695.2	1248.3	1157.1	1211.2	1053.4	784.2
95°	459.7	478.8	442.8	405.6	481.1	484.5	769.5	701.9	672.6	605.0	468.7
97.5°	336.9	338.0	324.5	290.7	338.0	342.5	511.5	460.8	434.9	406.7	324.5
100°	267.0	267.0	246.7	225.3	235.5	244.5	356.0	321.1	307.6	295.2	244.5
102.5°	233.2	232.1	215.2	193.8	192.7	197.2	269.3	245.6	235.5	227.6	192.7
105°	220.8	219.7	202.8	180.3	174.6	171.3	224.2	208.4	201.7	194.9	173.5
107.5°	218.6	216.3	199.4	179.1	170.1	161.1	201.7	188.2	189.3	182.5	166.7
110°	220.8	220.8	206.2	193.8	179.1	166.7	202.8	188.2	192.7	190.4	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	215.2	220.8	215.2	207.3	191.5	181.4	211.8	194.9	200.5	200.5	179.1
115°	202.8	208.4	208.4	200.5	185.9	182.5	209.6	194.9	197.2	193.8	166.7
117.5°	185.9	189.3	187.0	178.0	165.6	163.4	194.9	188.2	188.2	178.0	155.5
120°	173.5	166.7	157.7	151.0	144.2	149.8	175.8	169.0	163.4	158.9	142.0
122.5°	155.5	147.6	137.5	134.1	129.6	137.5	160.0	154.4	148.7	146.5	134.1
125°	128.4	128.4	123.9	121.7	120.6	131.8	157.7	152.1	144.2	139.7	125.1
127.5°	123.9	123.9	120.6	118.3	119.4	132.9	154.4	148.7	139.7	134.1	120.6
130°	125.1	122.8	118.3	114.9	116.0	131.8	153.2	146.5	137.5	132.9	120.6
132.5°	118.3	116.0	112.7	110.4	109.3	125.1	145.3	142.0	135.2	125.1	111.5
135°	114.9	112.7	110.4	109.3	109.3	121.7	138.6	135.2	128.4	117.2	102.5
137.5°	113.8	111.5	107.0	105.9	104.8	116.0	129.6	127.3	120.6	110.4	98.0
140°	108.2	104.8	101.4	100.3	100.3	109.3	122.8	120.6	113.8	105.9	94.6
142.5°	100.3	98.0	94.6	94.6	95.8	104.8	119.4	118.3	110.4	101.4	91.3
145°	95.8	93.5	91.3	92.4	93.5	101.4	112.7	111.5	105.9	98.0	87.9
147.5°	87.9	86.8	84.5	83.4	85.6	92.4	104.8	104.8	101.4	91.3	81.1
150°	76.6	75.5	73.2	72.1	74.4	81.1	91.3	91.3	87.9	77.7	68.7
152.5°	64.2	63.1	63.1	64.2	66.5	69.9	78.9	80.0	76.6	66.5	58.6
155°	56.3	55.2	55.2	56.3	59.7	63.1	68.7	68.7	65.3	58.6	50.7
157.5°	48.4	47.3	47.3	48.4	51.8	54.1	59.7	58.6	56.3	50.7	43.9
160°	37.2	36.1	36.1	37.2	40.6	42.8	47.3	47.3	46.2	42.8	37.2
162.5°	28.2	27.0	27.0	28.2	30.4	31.5	34.9	36.1	36.1	33.8	29.3
165°	21.4	20.3	20.3	20.3	22.5	23.7	24.8	24.8	24.8	23.7	20.3
167.5°	13.5	12.4	12.4	13.5	14.6	14.6	15.8	15.8	14.6	14.6	12.4
170°	6.8	5.6	5.6	6.8	6.8	6.8	5.6	4.5	4.5	4.5	4.5
172.5°	2.3	1.1	3.4	3.4	2.3	0.0	0.0	1.1	1.1	1.1	0.0
175°	2.3	1.1	3.4	3.4	2.3	0.0	0.0	1.1	0.0	1.1	0.0
177.5°	1.1	1.1	3.4	3.4	2.3	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°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	58.6	57.5	53.0	46.2	39.4	32.7	31.5	32.7	33.8	34.9	36.1
5°	69.9	65.3	56.3	46.2	37.2	28.2	23.7	21.4	20.3	21.4	22.5
7.5°	84.5	78.9	67.6	55.2	43.9	34.9	29.3	23.7	20.3	20.3	21.4
10°	94.6	87.9	74.4	60.8	49.6	39.4	32.7	27.0	23.7	21.4	21.4
12.5°	105.9	96.9	78.9	64.2	51.8	42.8	36.1	30.4	27.0	24.8	24.8
15°	118.3	108.2	86.8	67.6	55.2	45.1	39.4	33.8	29.3	27.0	27.0
17.5°	138.6	121.7	91.3	71.0	57.5	47.3	40.6	34.9	30.4	28.2	28.2
20°	147.6	128.4	92.4	74.4	60.8	49.6	41.7	34.9	31.5	29.3	29.3
22.5°	147.6	127.3	94.6	76.6	64.2	51.8	42.8	36.1	31.5	29.3	29.3
25°	185.9	139.7	96.9	82.2	67.6	54.1	45.1	37.2	32.7	30.4	30.4
27.5°	260.3	182.5	111.5	87.9	72.1	57.5	47.3	39.4	33.8	31.5	31.5
30°	286.2	203.9	127.3	102.5	78.9	60.8	49.6	41.7	36.1	32.7	32.7
32.5°	291.8	200.5	136.3	112.7	90.1	66.5	51.8	43.9	37.2	33.8	33.8
35°	263.6	185.9	136.3	117.2	96.9	74.4	57.5	46.2	38.3	34.9	33.8
37.5°	307.6	200.5	139.7	118.3	100.3	80.0	64.2	49.6	40.6	36.1	36.1
40°	397.7	237.7	156.6	125.1	101.4	83.4	71.0	55.2	43.9	38.3	38.3
42.5°	465.3	268.1	174.6	142.0	110.4	87.9	73.2	59.7	48.4	41.7	40.6
45°	522.8	297.4	190.4	157.7	126.2	98.0	77.7	64.2	53.0	46.2	45.1
47.5°	532.9	312.1	202.8	173.5	138.6	108.2	84.5	68.7	58.6	50.7	49.6
50°	514.9	313.2	207.3	183.6	152.1	119.4	92.4	74.4	63.1	55.2	55.2
52.5°	735.7	391.0	227.6	189.3	156.6	128.4	102.5	81.1	67.6	60.8	60.8
55°	1327.2	632.1	294.1	224.2	167.9	135.2	111.5	91.3	74.4	66.5	66.5
57.5°	2145.2	987.0	388.7	299.7	216.3	156.6	121.7	101.4	83.4	72.1	72.1
60°	2842.6	1392.6	473.2	365.0	283.9	215.2	147.6	114.9	93.5	80.0	78.9
62.5°	3273.0	1757.6	522.8	389.8	324.5	272.7	198.3	144.2	105.9	91.3	89.0
65°	3177.2	1940.1	544.2	387.6	322.2	290.7	236.6	179.1	127.3	104.8	101.4
67.5°	2918.1	1941.2	540.8	370.7	305.3	276.0	235.5	193.8	147.6	118.3	113.8
70°	2788.5	1907.4	523.9	358.3	291.8	258.0	218.6	178.0	145.3	126.2	123.9
72.5°	2726.5	1884.9	513.8	356.0	289.6	251.2	207.3	158.9	130.7	120.6	122.8
75°	2741.2	1898.4	518.3	359.4	294.1	254.6	202.8	147.6	114.9	103.7	105.9
77.5°	2708.5	1871.4	525.0	358.3	291.8	249.0	189.3	135.2	104.8	93.5	92.4
80°	2735.5	1812.8	509.3	347.0	274.9	226.5	167.9	120.6	95.8	87.9	86.8
82.5°	2528.2	1578.5	452.9	316.6	249.0	194.9	140.8	105.9	90.1	81.1	81.1
85°	2317.6	1279.9	388.7	278.3	205.1	153.2	112.7	92.4	78.9	72.1	72.1
87.5°	1758.7	917.1	300.8	228.7	171.3	131.8	102.5	89.0	77.7	73.2	72.1
90°	1087.2	565.6	224.2	182.5	145.3	117.2	96.9	85.6	76.6	73.2	73.2
92.5°	608.4	361.7	173.5	149.8	125.1	104.8	89.0	77.7	69.9	66.5	66.5
95°	412.4	270.4	148.7	134.1	111.5	92.4	77.7	67.6	60.8	56.3	56.3
97.5°	298.6	212.9	131.8	120.6	100.3	81.1	68.7	58.6	53.0	50.7	50.7
100°	228.7	172.4	119.4	108.2	89.0	71.0	59.7	50.7	45.1	42.8	42.8
102.5°	183.6	145.3	108.2	98.0	78.9	63.1	50.7	41.7	37.2	36.1	34.9
105°	165.6	135.2	101.4	91.3	72.1	57.5	45.1	37.2	32.7	30.4	30.4
107.5°	161.1	135.2	100.3	89.0	68.7	54.1	40.6	33.8	29.3	27.0	27.0
110°	171.3	143.1	101.4	86.8	64.2	49.6	37.2	30.4	25.9	24.8	24.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	176.9	144.2	96.9	81.1	59.7	45.1	34.9	28.2	24.8	22.5	22.5
115°	162.2	129.6	89.0	72.1	53.0	40.6	32.7	27.0	22.5	20.3	20.3
117.5°	156.6	121.7	86.8	63.1	48.4	37.2	30.4	24.8	21.4	19.2	19.2
120°	156.6	118.3	76.6	55.2	43.9	33.8	28.2	22.5	19.2	18.0	18.0
122.5°	151.0	109.3	67.6	48.4	38.3	29.3	24.8	20.3	18.0	15.8	15.8
125°	137.5	101.4	55.2	43.9	34.9	27.0	22.5	19.2	15.8	14.6	14.6
127.5°	129.6	100.3	51.8	40.6	31.5	24.8	20.3	16.9	13.5	12.4	12.4
130°	128.4	100.3	48.4	36.1	28.2	21.4	18.0	14.6	12.4	11.3	11.3
132.5°	114.9	91.3	46.2	33.8	25.9	20.3	16.9	13.5	11.3	10.1	10.1
135°	103.7	84.5	45.1	31.5	23.7	18.0	14.6	12.4	9.0	9.0	9.0
137.5°	95.8	77.7	45.1	29.3	21.4	15.8	13.5	11.3	7.9	7.9	7.9
140°	90.1	72.1	43.9	28.2	19.2	14.6	12.4	9.0	6.8	6.8	6.8
142.5°	84.5	67.6	40.6	27.0	18.0	12.4	11.3	9.0	6.8	5.6	5.6
145°	77.7	62.0	36.1	24.8	16.9	11.3	10.1	7.9	5.6	4.5	4.5
147.5°	71.0	55.2	31.5	21.4	15.8	10.1	9.0	6.8	4.5	4.5	4.5
150°	60.8	47.3	28.2	19.2	13.5	9.0	7.9	5.6	4.5	3.4	3.4
152.5°	49.6	40.6	24.8	16.9	12.4	7.9	6.8	4.5	3.4	2.3	2.3
155°	43.9	36.1	22.5	14.6	10.1	6.8	5.6	3.4	3.4	2.3	2.3
157.5°	38.3	31.5	20.3	12.4	7.9	4.5	4.5	3.4	2.3	2.3	1.1
160°	31.5	27.0	16.9	10.1	6.8	3.4	3.4	2.3	2.3	1.1	1.1
162.5°	24.8	20.3	12.4	7.9	4.5	2.3	2.3	2.3	2.3	1.1	0.0
165°	16.9	14.6	9.0	5.6	3.4	1.1	1.1	2.3	1.1	1.1	0.0
167.5°	11.3	9.0	5.6	3.4	2.3	0.0	1.1	1.1	1.1	1.1	0.0
170°	4.5	4.5	3.4	2.3	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)