

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: P588360

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588360
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-CA6-100-740-U-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14077 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U4 - G5

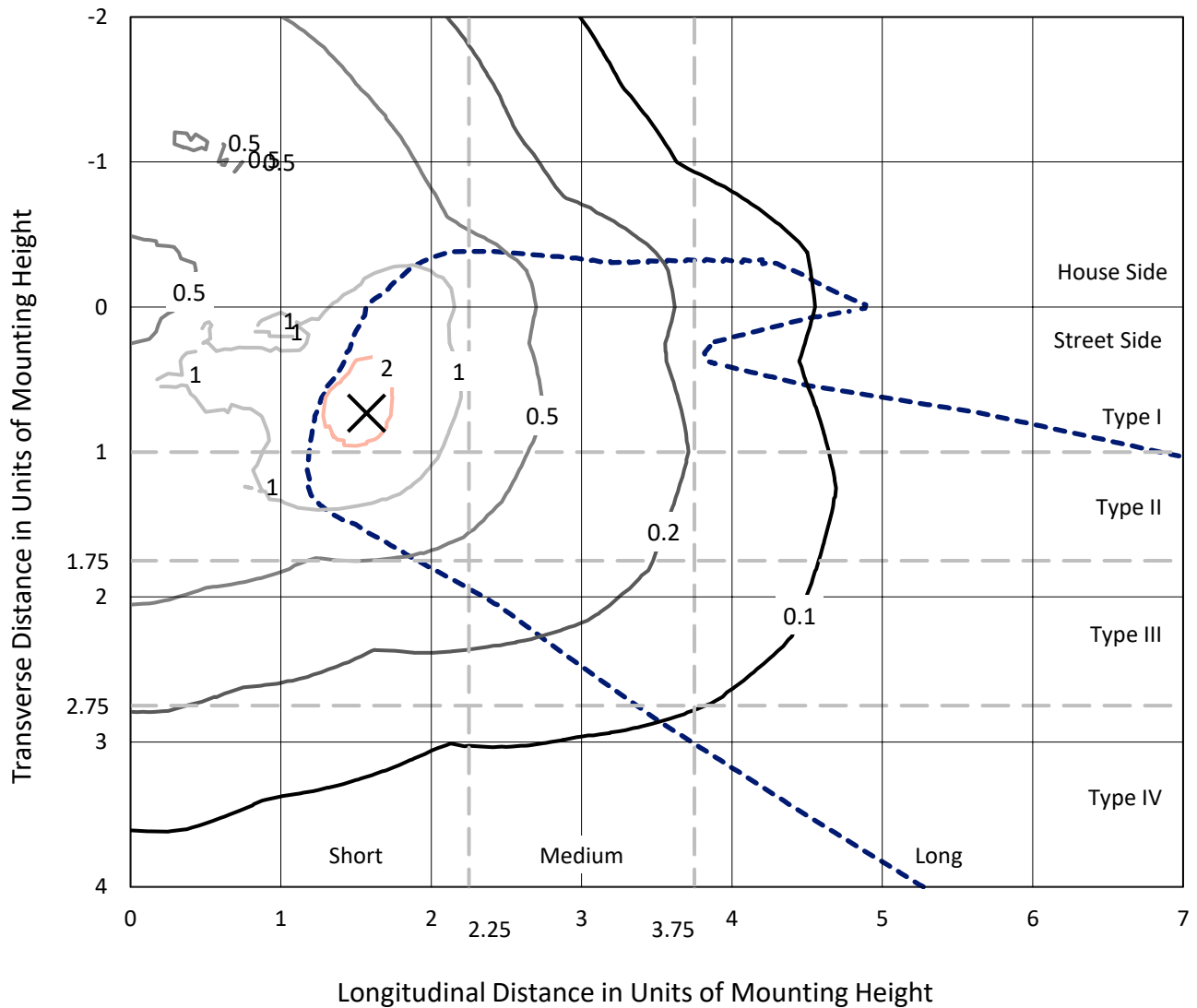
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

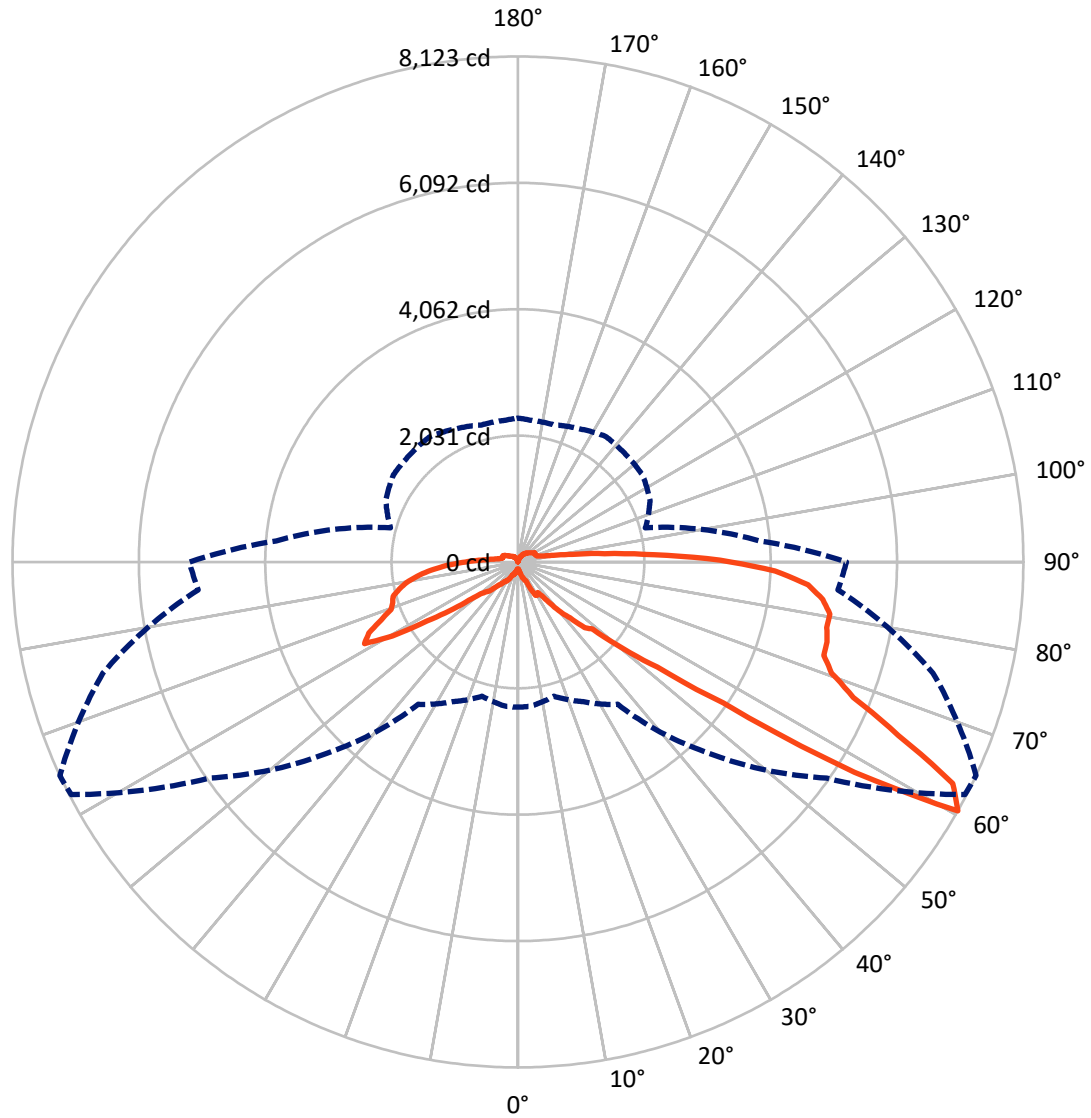
✕ Max cd
 - - - 1/2 Max cd



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



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

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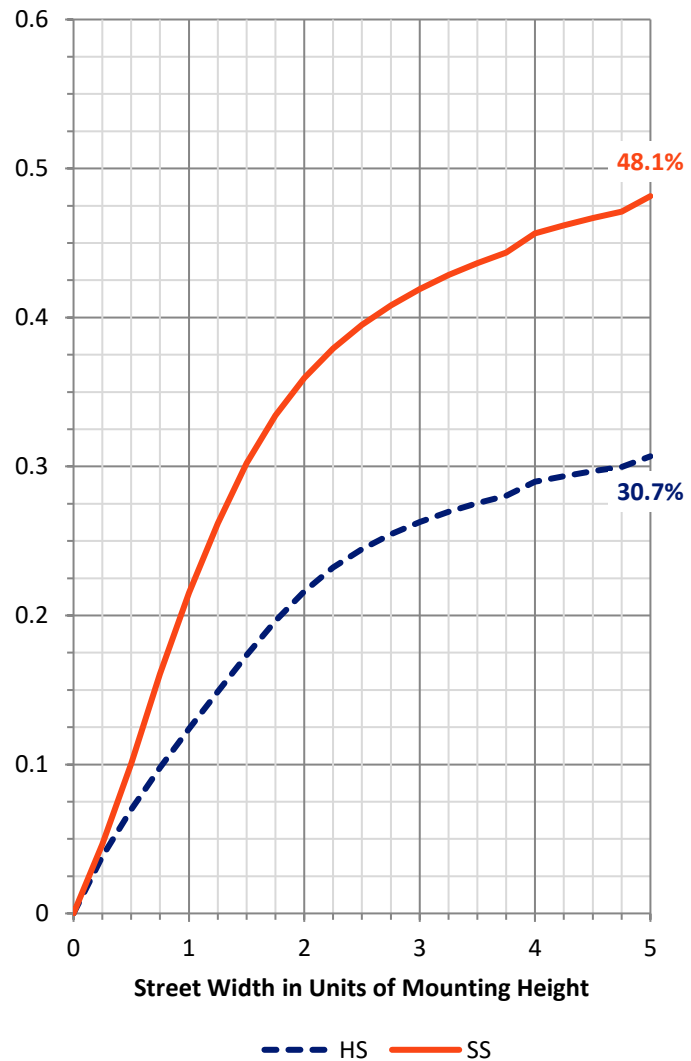
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4694.3	751.8	5446.1
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7510.4	1120.6	8630.9
	% Fixture	53.4	8.0	61.3
Total	Lumens	12204.7	1872.3	14077.0
	% Fixture	86.7	13.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.1
10°-20°	60.1	0.4
20°-30°	171.9	1.2
30°-40°	370.3	2.6
40°-50°	700.6	5.0
50°-60°	1957.2	13.9
60°-70°	3489.3	24.8
70°-80°	3054.9	21.7
80°-90°	2386.9	17.0
90°-100°	902.4	6.4
100°-110°	310.4	2.2
110°-120°	253.8	1.8
120°-130°	170.5	1.2
130°-140°	117.0	0.8
140°-150°	73.6	0.5
150°-160°	34.1	0.2
160°-170°	9.6	0.1
170°-180°	0.9	0.0
0°-90°	12204.7	86.7
0°-180°	14077.0	100.0



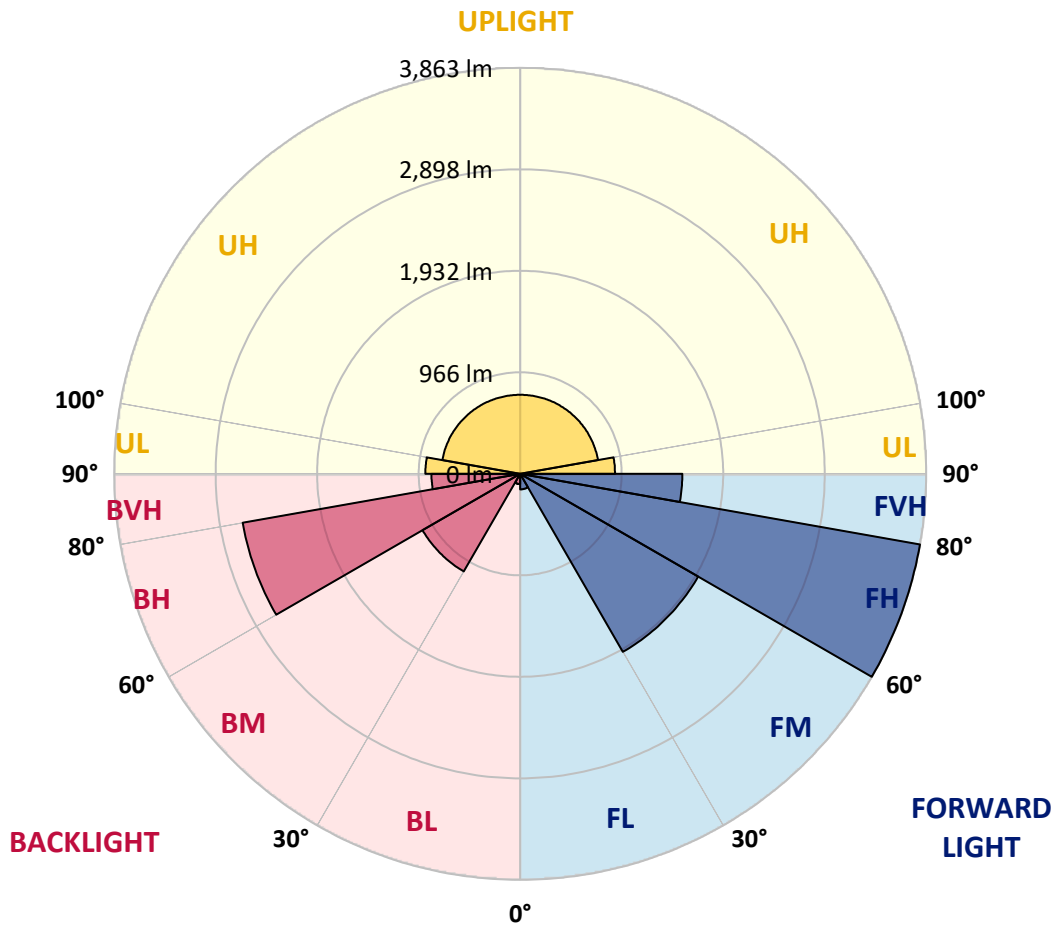
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.3	1.1			
FM (30°-60°)	1955.9	13.9			
FH (60°-80°)	3863.3	27.4			G2/5000
FVH (80°-90°)	1542.8	11.0			G5
BL (0°-30°)	97.2	0.7	B0/110		
BM (30°-60°)	1072.2	7.6	B2/2500		
BH (60°-80°)	2680.8	19.0	B4/5000		G4/5000
BVH (80°-90°)	844.1	6.0			G5
UL (90°-100°)	902.4	6.4		U4/1000	
UH (100°-180°)	751.8	5.3		U4/1000	

BUG Rating: B4-U4-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
2.5°	124.1	120.5	116.8	116.8	115.0	113.2	113.2	109.5	111.3	109.5	109.5
5°	146.0	144.2	140.5	142.4	138.7	136.9	136.9	135.1	133.2	131.4	125.9
7.5°	169.7	169.7	171.6	173.4	167.9	162.4	160.6	157.0	157.0	155.1	151.5
10°	195.3	193.5	186.2	186.2	182.5	178.9	180.7	178.9	178.9	178.9	171.6
12.5°	202.6	200.8	195.3	195.3	195.3	193.5	200.8	198.9	200.8	198.9	188.0
15°	228.1	226.3	224.5	226.3	233.6	248.2	266.5	259.2	261.0	257.3	217.2
17.5°	239.1	244.6	248.2	250.0	257.3	257.3	261.0	259.2	266.5	271.9	248.2
20°	277.4	273.8	277.4	290.2	308.4	310.3	304.8	304.8	308.4	310.3	264.6
22.5°	293.8	292.0	306.6	295.7	295.7	304.8	337.6	326.7	326.7	323.0	284.7
25°	381.4	388.7	403.3	421.6	465.4	478.2	514.7	474.5	480.0	423.4	361.4
27.5°	458.1	463.6	549.3	626.0	660.7	642.4	673.4	598.6	605.9	613.2	527.4
30°	481.8	492.8	616.9	673.4	719.1	682.6	722.7	624.2	618.7	660.7	626.0
32.5°	463.6	474.5	605.9	629.6	677.1	812.2	761.1	602.3	585.8	605.9	647.9
35°	509.2	516.5	595.0	538.4	582.2	1135.2	996.5	702.6	669.8	558.5	620.5
37.5°	611.4	611.4	704.5	744.6	777.5	1339.6	1308.6	874.2	848.7	653.4	717.2
40°	741.0	737.3	852.3	879.7	894.3	1213.7	1582.3	1115.1	1058.5	768.4	934.4
42.5°	819.5	812.2	905.2	934.4	934.4	1027.5	1790.4	1357.8	1226.4	896.1	1142.5
45°	850.5	857.8	978.2	941.7	969.1	1054.9	2013.0	1693.7	1509.3	1051.2	1325.0
47.5°	770.2	781.1	954.5	958.2	819.5	843.2	1805.0	1759.4	1607.9	1126.1	1383.4
50°	945.4	952.7	1014.7	972.8	905.2	1067.7	2149.9	2261.3	2195.5	1394.3	1460.0
52.5°	1297.6	1330.5	1388.9	1425.4	1405.3	1794.0	2883.6	2863.5	2808.8	2093.3	1993.0
55°	1680.9	1708.3	1790.4	2011.2	2179.1	2686.5	3586.2	4006.0	4002.4	3400.1	3106.3
57.5°	2029.5	2031.3	2042.2	2314.2	2573.3	3507.8	4697.7	6239.9	6378.6	5431.4	4447.7
60°	2332.4	2327.0	2233.9	2476.6	2792.3	4349.1	6055.6	8096.0	8123.3	6906.0	5159.4
62.5°	2414.6	2398.1	2263.1	2489.4	2759.5	4365.5	6402.3	7875.1	7844.1	7010.1	5252.5
65°	2343.4	2327.0	2155.4	2358.0	2485.7	3967.7	5913.2	6772.8	6721.7	6404.1	5000.7
67.5°	2237.5	2248.5	2078.7	2233.9	2321.5	3721.3	5398.5	5827.4	5812.8	5968.0	4790.8
70°	2084.2	2093.3	1938.2	2129.8	2257.6	3564.3	4905.8	5371.2	5345.6	5573.7	4482.4
72.5°	2089.7	2117.1	1932.7	2076.9	2210.1	3349.0	4683.1	5214.2	5139.4	5174.0	4111.9
75°	2104.3	2140.8	1945.5	2075.1	2199.2	3270.5	4657.6	5227.0	5132.1	5029.9	3971.3
77.5°	2109.8	2162.7	1952.8	2095.2	2202.8	3162.8	4599.2	5163.1	5073.7	4891.2	3805.3
80°	2066.0	2122.5	1921.8	2097.0	2179.1	2949.3	4451.3	5152.1	5084.6	4872.9	3737.7
82.5°	1978.4	2034.9	1861.6	2005.7	2133.5	2732.1	4243.3	4938.6	4935.0	4697.7	3595.4
85°	1786.7	1848.8	1717.4	1850.6	2007.6	2443.8	3823.5	4575.4	4675.8	4484.2	3403.7
87.5°	1602.4	1664.5	1595.1	1669.9	1828.7	2124.4	3285.1	3949.4	4137.4	3978.6	2923.7
90°	1392.5	1456.4	1399.8	1370.6	1498.4	1695.5	2626.3	3071.6	3248.6	3151.9	2151.7
92.5°	1115.1	1169.9	1116.9	1049.4	1126.1	1244.7	1951.0	2149.9	2191.9	2098.8	1410.8
95°	843.2	883.3	835.9	768.4	777.5	852.3	1345.1	1408.9	1398.0	1286.7	896.1
97.5°	585.8	609.6	578.5	531.1	547.5	595.0	890.6	883.3	883.3	786.6	585.8
100°	407.0	416.1	401.5	379.6	392.4	423.4	598.6	596.8	578.5	531.1	427.1
102.5°	323.0	324.9	310.3	295.7	288.4	317.6	432.5	430.7	434.4	412.5	334.0
105°	284.7	282.9	270.1	257.3	242.7	271.9	343.1	357.7	355.9	337.6	286.5
107.5°	261.0	259.2	246.4	235.4	222.7	248.2	297.5	317.6	315.7	313.9	270.1
110°	242.7	240.9	230.0	219.0	208.1	237.3	279.2	310.3	310.3	310.3	273.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	230.0	230.0	220.8	211.7	202.6	235.4	268.3	304.8	304.8	313.9	286.5
115°	222.7	220.8	213.5	208.1	200.8	237.3	264.6	301.1	303.0	315.7	284.7
117.5°	217.2	215.4	209.9	202.6	198.9	233.6	266.5	308.4	306.6	326.7	279.2
120°	208.1	204.4	197.1	189.8	186.2	215.4	259.2	299.3	295.7	304.8	257.3
122.5°	200.8	189.8	177.0	171.6	171.6	195.3	242.7	270.1	266.5	259.2	231.8
125°	184.3	173.4	162.4	160.6	162.4	182.5	231.8	248.2	250.0	244.6	219.0
127.5°	166.1	158.8	153.3	153.3	157.0	178.9	228.1	239.1	239.1	228.1	208.1
130°	157.0	155.1	151.5	151.5	158.8	180.7	222.7	226.3	226.3	211.7	202.6
132.5°	153.3	149.7	146.0	146.0	153.3	175.2	208.1	215.4	213.5	198.9	191.6
135°	146.0	144.2	140.5	140.5	149.7	171.6	195.3	202.6	200.8	182.5	177.0
137.5°	142.4	138.7	138.7	138.7	147.8	169.7	184.3	189.8	188.0	169.7	164.3
140°	136.9	135.1	131.4	131.4	144.2	164.3	173.4	175.2	173.4	158.8	153.3
142.5°	127.8	125.9	124.1	127.8	140.5	155.1	162.4	162.4	160.6	151.5	144.2
145°	122.3	120.5	118.6	127.8	138.7	146.0	153.3	147.8	147.8	142.4	135.1
147.5°	116.8	115.0	115.0	122.3	131.4	131.4	136.9	135.1	136.9	135.1	127.8
150°	105.9	104.0	104.0	109.5	111.3	111.3	116.8	116.8	116.8	116.8	111.3
152.5°	93.1	91.3	93.1	94.9	94.9	94.9	98.6	100.4	100.4	98.6	96.7
155°	80.3	80.3	80.3	82.1	82.1	80.3	85.8	85.8	85.8	85.8	84.0
157.5°	71.2	71.2	71.2	71.2	71.2	69.4	73.0	73.0	74.8	73.0	73.0
160°	62.1	60.2	60.2	60.2	60.2	58.4	60.2	60.2	60.2	62.1	62.1
162.5°	49.3	47.5	47.5	47.5	47.5	43.8	47.5	45.6	47.5	47.5	49.3
165°	40.2	38.3	38.3	38.3	36.5	34.7	36.5	34.7	34.7	34.7	36.5
167.5°	31.0	31.0	29.2	31.0	29.2	25.6	25.6	23.7	23.7	23.7	23.7
170°	23.7	21.9	20.1	21.9	20.1	16.4	16.4	14.6	14.6	12.8	12.8
172.5°	16.4	14.6	12.8	14.6	12.8	9.1	9.1	5.5	5.5	5.5	5.5
175°	14.6	12.8	11.0	12.8	11.0	7.3	5.5	3.7	3.7	3.7	3.7
177.5°	14.6	12.8	11.0	12.8	11.0	7.3	5.5	3.7	3.7	3.7	3.7
180°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
2.5°	109.5	107.7	105.9	109.5	107.7	109.5	111.3	113.2	113.2	111.3	111.3
5°	125.9	124.1	120.5	118.6	115.0	115.0	115.0	118.6	118.6	116.8	118.6
7.5°	149.7	146.0	140.5	136.9	131.4	131.4	129.6	133.2	135.1	131.4	133.2
10°	167.9	166.1	158.8	153.3	147.8	146.0	146.0	147.8	147.8	146.0	146.0
12.5°	184.3	180.7	173.4	167.9	160.6	158.8	158.8	160.6	160.6	158.8	158.8
15°	208.1	197.1	189.8	184.3	177.0	175.2	173.4	175.2	177.0	173.4	173.4
17.5°	240.9	228.1	211.7	197.1	189.8	193.5	195.3	197.1	195.3	189.8	189.8
20°	259.2	251.9	230.0	219.0	209.9	209.9	209.9	209.9	209.9	208.1	209.9
22.5°	271.9	261.0	233.6	226.3	220.8	224.5	228.1	230.0	230.0	228.1	228.1
25°	330.3	290.2	262.8	257.3	250.0	251.9	248.2	248.2	250.0	248.2	251.9
27.5°	454.4	388.7	326.7	304.8	299.3	299.3	303.0	303.0	303.0	303.0	301.1
30°	545.7	469.0	366.8	337.6	334.0	350.4	359.5	366.8	363.2	357.7	357.7
32.5°	560.3	476.3	374.1	363.2	372.3	385.1	394.2	399.7	405.2	403.3	401.5
35°	529.3	439.8	368.7	383.3	390.6	397.9	399.7	396.0	412.5	419.8	421.6
37.5°	591.3	492.8	428.9	439.8	430.7	423.4	427.1	428.9	450.8	461.7	472.7
40°	755.6	595.0	487.3	481.8	476.3	492.8	514.7	525.6	523.8	516.5	518.3
42.5°	914.4	695.3	549.3	547.5	545.7	574.9	609.6	607.7	591.3	578.5	578.5
45°	1076.8	792.1	647.9	649.7	646.1	657.0	666.1	658.8	660.7	664.3	668.0
47.5°	1177.2	879.7	709.9	704.5	680.7	702.6	728.2	711.8	706.3	697.2	700.8
50°	1200.9	901.6	746.5	786.6	764.7	748.3	720.9	709.9	730.0	744.6	755.6
52.5°	1560.4	1113.3	932.6	996.5	967.3	908.9	903.4	885.2	907.1	908.9	921.7
55°	2615.3	1784.9	1284.8	1346.9	1348.7	1328.6	1419.9	1368.8	1323.2	1303.1	1295.8
57.5°	4122.8	2759.5	1662.6	1741.1	1815.9	1887.1	2011.2	1907.2	1775.8	1759.4	1777.6
60°	5279.9	3896.5	2120.7	2341.6	2441.9	2445.6	2462.0	2359.8	2279.5	2286.8	2312.4
62.5°	5528.1	4845.5	2701.1	2792.3	2801.5	2733.9	2763.1	2828.8	2715.7	2626.3	2650.0
65°	5362.0	5221.5	2890.9	2653.6	2639.0	2650.0	2848.9	3031.4	2803.3	2577.0	2577.0
67.5°	5040.8	4935.0	2697.4	2387.2	2427.3	2551.4	2803.3	2894.5	2651.8	2410.9	2410.9
70°	4697.7	4486.0	2480.3	2175.5	2274.0	2418.2	2582.5	2589.8	2447.4	2275.9	2264.9
72.5°	4327.2	4135.6	2387.2	2113.4	2159.0	2184.6	2274.0	2330.6	2314.2	2202.8	2201.0
75°	4217.7	4062.6	2385.4	2084.2	2056.8	2047.7	2109.8	2232.1	2288.6	2222.9	2226.6
77.5°	4051.6	3958.6	2274.0	1961.9	1932.7	1932.7	1965.6	2064.1	2149.9	2122.5	2131.7
80°	3936.7	3796.1	2104.3	1828.7	1788.6	1794.0	1797.7	1865.2	1945.5	1949.2	1949.2
82.5°	3715.8	3451.2	1847.0	1629.8	1602.4	1609.7	1596.9	1635.3	1657.2	1684.5	1679.1
85°	3352.6	2978.5	1560.4	1412.6	1368.8	1354.2	1343.2	1345.1	1357.8	1352.4	1330.5
87.5°	2808.8	2361.6	1244.7	1158.9	1107.8	1071.3	1056.7	1038.5	1036.6	1016.6	1023.9
90°	2073.3	1620.7	923.5	892.5	856.0	817.6	797.6	779.3	764.7	744.6	737.3
92.5°	1352.4	1043.9	675.3	658.8	635.1	613.2	604.1	595.0	591.3	574.9	580.4
95°	845.0	706.3	507.4	489.1	476.3	470.9	472.7	474.5	470.9	452.6	458.1
97.5°	563.9	511.0	396.0	383.3	370.5	368.7	370.5	374.1	376.0	363.2	366.8
100°	416.1	392.4	324.9	315.7	304.8	301.1	303.0	306.6	308.4	297.5	299.3
102.5°	330.3	319.4	281.1	277.4	264.6	261.0	264.6	266.5	268.3	261.0	261.0
105°	290.2	290.2	259.2	257.3	248.2	244.6	246.4	248.2	250.0	242.7	242.7
107.5°	279.2	281.1	250.0	251.9	246.4	244.6	248.2	251.9	250.0	244.6	242.7
110°	288.4	292.0	250.0	255.5	257.3	261.0	268.3	270.1	270.1	266.5	268.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	297.5	303.0	246.4	259.2	271.9	281.1	293.8	301.1	297.5	295.7	297.5
115°	290.2	293.8	230.0	250.0	273.8	286.5	290.2	290.2	281.1	281.1	282.9
117.5°	281.1	288.4	213.5	230.0	246.4	257.3	255.5	250.0	239.1	235.4	246.4
120°	261.0	282.9	204.4	208.1	209.9	213.5	208.1	202.6	193.5	191.6	198.9
122.5°	240.9	261.0	188.0	184.3	182.5	182.5	180.7	178.9	173.4	175.2	182.5
125°	224.5	235.4	171.6	166.1	164.3	166.1	166.1	166.1	162.4	158.8	158.8
127.5°	211.7	215.4	162.4	155.1	153.3	153.3	153.3	155.1	153.3	147.8	147.8
130°	204.4	202.6	157.0	144.2	142.4	144.2	144.2	146.0	142.4	138.7	138.7
132.5°	189.8	186.2	149.7	136.9	135.1	136.9	136.9	136.9	133.2	129.6	129.6
135°	173.4	169.7	140.5	127.8	125.9	127.8	127.8	129.6	125.9	122.3	122.3
137.5°	160.6	157.0	131.4	120.5	118.6	118.6	120.5	120.5	118.6	115.0	115.0
140°	149.7	146.0	122.3	113.2	109.5	111.3	111.3	111.3	109.5	105.9	105.9
142.5°	140.5	138.7	113.2	104.0	100.4	102.2	102.2	104.0	100.4	96.7	96.7
145°	133.2	129.6	105.9	94.9	93.1	93.1	93.1	94.9	91.3	87.6	87.6
147.5°	125.9	122.3	96.7	85.8	84.0	84.0	84.0	84.0	82.1	78.5	76.7
150°	111.3	109.5	89.4	78.5	74.8	74.8	74.8	73.0	69.4	65.7	65.7
152.5°	94.9	93.1	78.5	69.4	65.7	65.7	63.9	63.9	60.2	58.4	56.6
155°	82.1	82.1	71.2	62.1	58.4	56.6	54.8	54.8	52.9	51.1	49.3
157.5°	73.0	71.2	63.9	56.6	49.3	49.3	47.5	47.5	45.6	43.8	42.0
160°	62.1	62.1	54.8	47.5	42.0	40.2	40.2	38.3	36.5	34.7	34.7
162.5°	49.3	49.3	43.8	38.3	32.9	32.9	31.0	31.0	29.2	27.4	25.6
165°	34.7	34.7	32.9	29.2	25.6	23.7	23.7	23.7	21.9	20.1	20.1
167.5°	23.7	23.7	21.9	20.1	18.3	16.4	18.3	18.3	16.4	14.6	14.6
170°	12.8	12.8	11.0	11.0	9.1	9.1	11.0	12.8	11.0	9.1	7.3
172.5°	5.5	5.5	5.5	5.5	3.7	5.5	7.3	9.1	7.3	5.5	5.5
175°	3.7	3.7	5.5	5.5	3.7	5.5	7.3	9.1	7.3	5.5	5.5
177.5°	3.7	3.7	5.5	5.5	3.7	5.5	7.3	9.1	7.3	5.5	5.5
180°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)