

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: P588352

Luminaire Tested: **ARC-CA6-100-727-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588352
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-CA6-100-727-U-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13161 lumens
Efficiency: N/A
Efficacy: 126.9 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

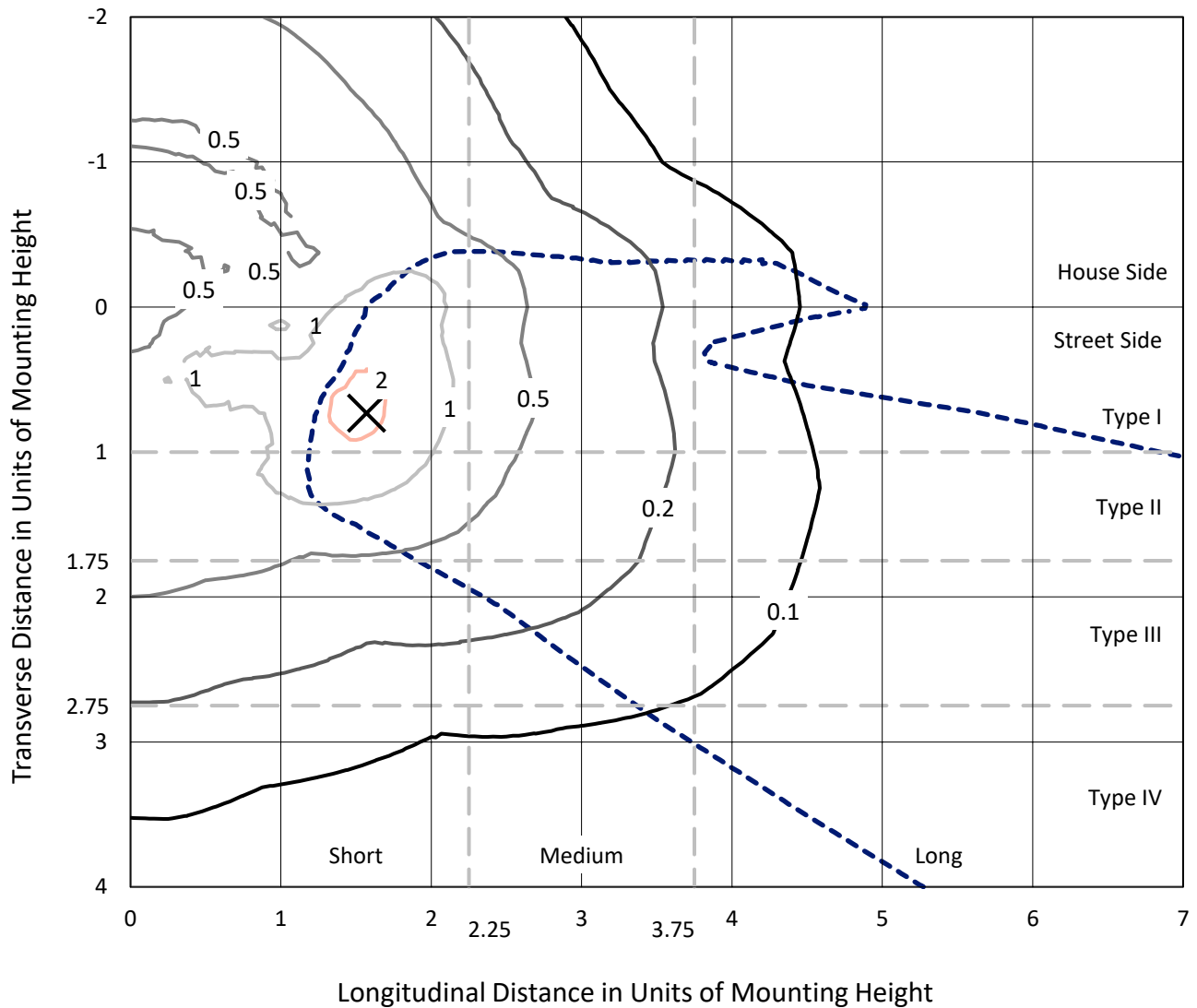
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

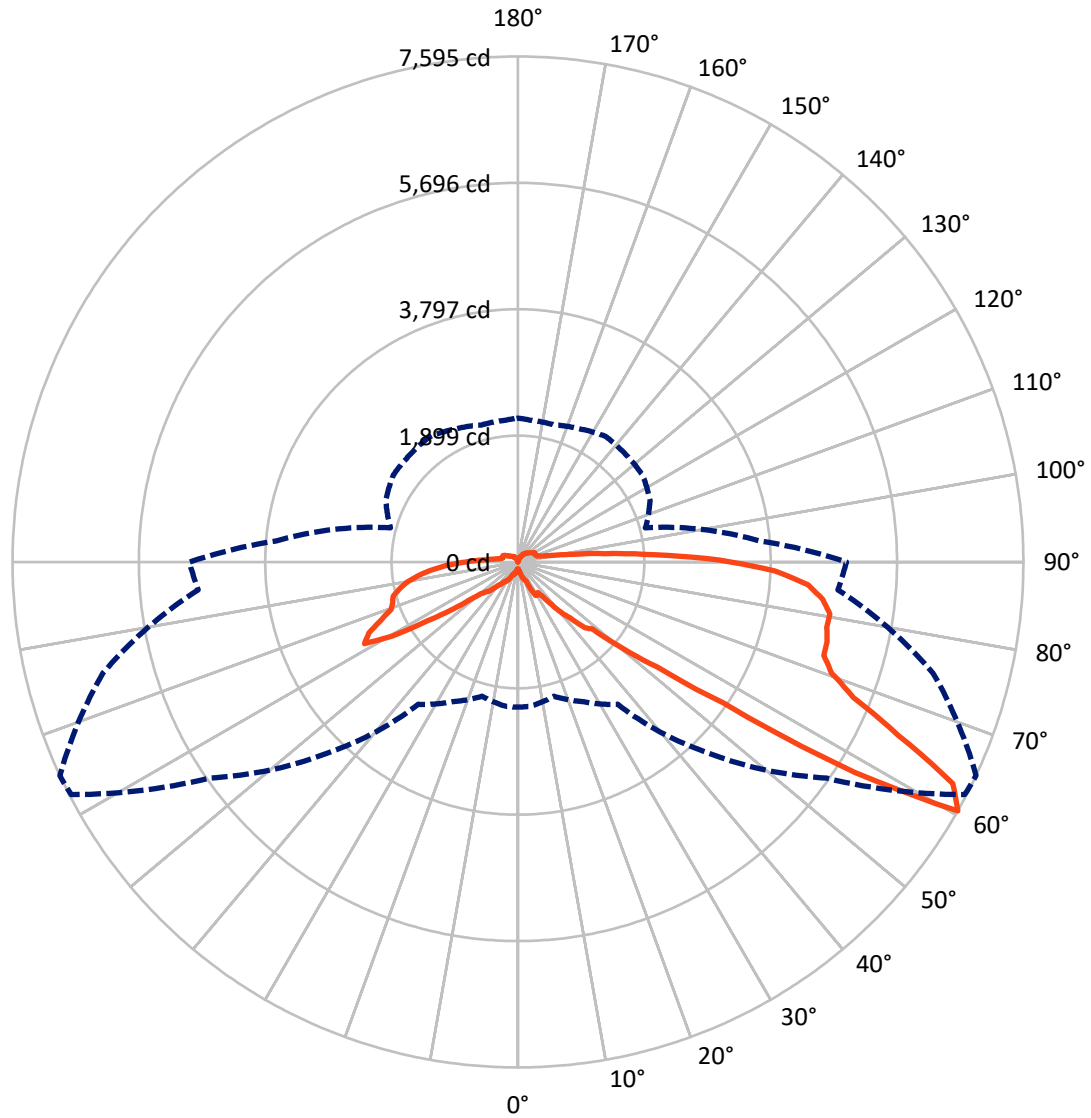
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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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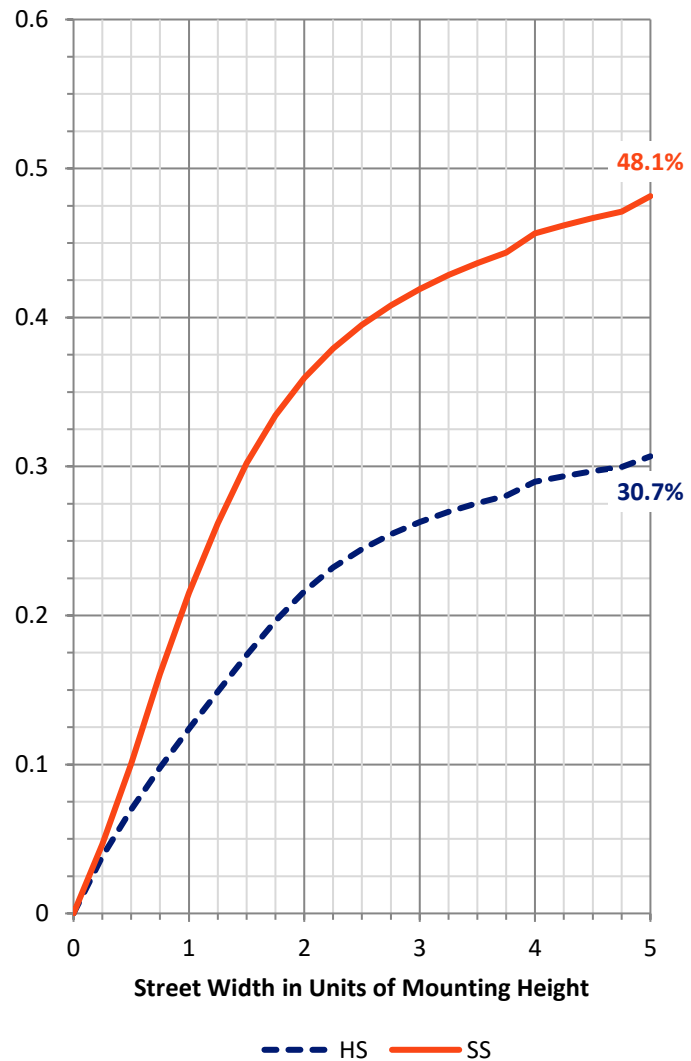
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4388.9	702.8	5091.7
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7021.6	1047.6	8069.3
	% Fixture	53.4	8.0	61.3
Total	Lumens	11410.5	1750.5	13161.0
	% Fixture	86.7	13.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.1
10°-20°	56.2	0.4
20°-30°	160.7	1.2
30°-40°	346.2	2.6
40°-50°	655.0	5.0
50°-60°	1829.8	13.9
60°-70°	3262.2	24.8
70°-80°	2856.1	21.7
80°-90°	2231.6	17.0
90°-100°	843.7	6.4
100°-110°	290.2	2.2
110°-120°	237.3	1.8
120°-130°	159.4	1.2
130°-140°	109.4	0.8
140°-150°	68.8	0.5
150°-160°	31.9	0.2
160°-170°	9.0	0.1
170°-180°	0.8	0.0
0°-90°	11410.5	86.7
0°-180°	13161.0	100.0



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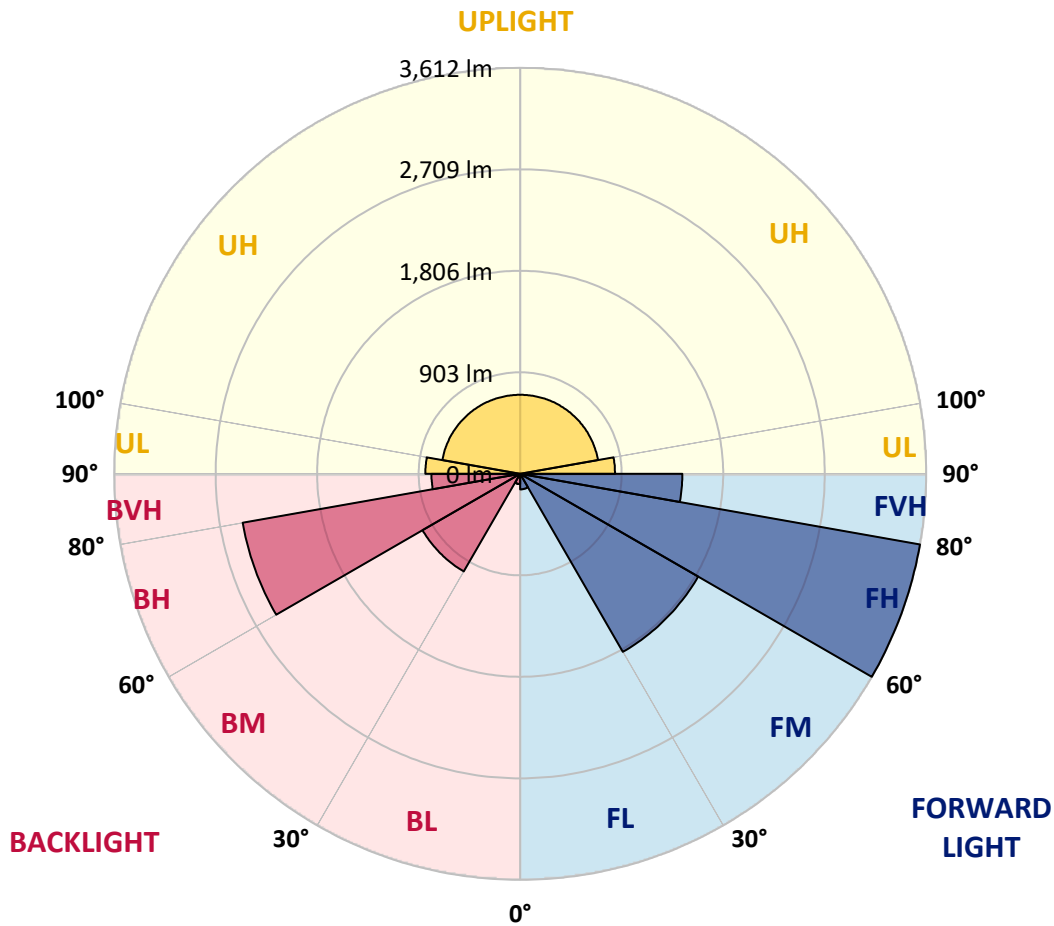
CATALOG NUMBER: ARC-CA6-100-727-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.7	1.1			
FM (30°-60°)	1828.6	13.9			
FH (60°-80°)	3612.0	27.4			G2/5000
FVH (80°-90°)	1442.4	11.0			G5
BL (0°-30°)	90.9	0.7	B0/110		
BM (30°-60°)	1002.4	7.6	B2/2500		
BH (60°-80°)	2506.4	19.0	B4/5000		G4/5000
BVH (80°-90°)	789.1	6.0			G5
UL (90°-100°)	843.7	6.4		U4/1000	
UH (100°-180°)	702.8	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°	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7
2.5°	116.0	112.6	109.2	109.2	107.5	105.8	105.8	102.4	104.1	102.4	102.4
5°	136.5	134.8	131.4	133.1	129.7	128.0	128.0	126.3	124.6	122.9	117.7
7.5°	158.7	158.7	160.4	162.1	157.0	151.9	150.2	146.7	146.7	145.0	141.6
10°	182.6	180.9	174.0	174.0	170.6	167.2	168.9	167.2	167.2	167.2	160.4
12.5°	189.4	187.7	182.6	182.6	182.6	180.9	187.7	186.0	187.7	186.0	175.7
15°	213.3	211.6	209.9	211.6	218.4	232.1	249.1	242.3	244.0	240.6	203.1
17.5°	223.5	228.6	232.1	233.8	240.6	240.6	244.0	242.3	249.1	254.2	232.1
20°	259.4	255.9	259.4	271.3	288.4	290.1	285.0	285.0	288.4	290.1	247.4
22.5°	274.7	273.0	286.7	276.4	276.4	285.0	315.7	305.4	305.4	302.0	266.2
25°	356.6	363.4	377.1	394.2	435.1	447.1	481.2	443.6	448.8	395.9	337.8
27.5°	428.3	433.4	513.6	585.3	617.7	600.6	629.6	559.7	566.5	573.3	493.1
30°	450.5	460.7	576.7	629.6	672.3	638.2	675.7	583.6	578.4	617.7	585.3
32.5°	433.4	443.6	566.5	588.7	633.0	759.3	711.5	563.1	547.7	566.5	605.7
35°	476.1	482.9	556.3	503.4	544.3	1061.3	931.6	656.9	626.2	522.1	580.1
37.5°	571.6	571.6	658.6	696.2	726.9	1252.4	1223.4	817.3	793.4	610.9	670.6
40°	692.8	689.3	796.8	822.4	836.1	1134.7	1479.4	1042.6	989.7	718.4	873.6
42.5°	766.1	759.3	846.3	873.6	873.6	960.6	1673.9	1269.5	1146.6	837.8	1068.1
45°	795.1	802.0	914.6	880.5	906.0	986.2	1882.1	1583.4	1411.1	982.8	1238.8
47.5°	720.1	730.3	892.4	895.8	766.1	788.3	1687.5	1644.9	1503.3	1052.8	1293.4
50°	883.9	890.7	948.7	909.5	846.3	998.2	2010.0	2114.1	2052.7	1303.6	1365.0
52.5°	1213.2	1243.9	1298.5	1332.6	1313.9	1677.3	2696.0	2677.2	2626.0	1957.1	1863.3
55°	1571.5	1597.1	1673.9	1880.3	2037.3	2511.7	3352.9	3745.3	3741.9	3178.8	2904.1
57.5°	1897.4	1899.1	1909.4	2163.6	2405.9	3279.5	4392.0	5833.9	5963.5	5078.0	4158.3
60°	2180.7	2175.5	2088.5	2315.5	2610.6	4066.1	5661.5	7569.2	7594.8	6456.7	4823.7
62.5°	2257.4	2242.1	2115.8	2327.4	2579.9	4081.5	5985.7	7362.7	7333.7	6553.9	4910.7
65°	2190.9	2175.5	2015.1	2204.5	2324.0	3709.5	5528.4	6332.1	6284.3	5987.4	4675.3
67.5°	2091.9	2102.2	1943.5	2088.5	2170.4	3479.2	5047.2	5448.2	5434.6	5579.6	4479.0
70°	1948.6	1957.1	1812.1	1991.3	2110.7	3332.4	4586.5	5021.7	4997.8	5211.1	4190.7
72.5°	1953.7	1979.3	1807.0	1941.8	2066.3	3131.1	4378.4	4874.9	4805.0	4837.4	3844.3
75°	1967.4	2001.5	1818.9	1940.1	2056.1	3057.7	4354.5	4886.9	4798.1	4702.6	3712.9
77.5°	1972.5	2022.0	1825.7	1958.8	2059.5	2957.0	4299.9	4827.1	4743.5	4572.9	3557.6
80°	1931.5	1984.4	1796.7	1960.5	2037.3	2757.4	4161.7	4816.9	4753.8	4555.8	3494.5
82.5°	1849.6	1902.5	1740.4	1875.2	1994.7	2554.3	3967.2	4617.3	4613.8	4392.0	3361.4
85°	1670.5	1728.5	1605.6	1730.2	1876.9	2284.7	3574.7	4277.7	4371.5	4192.4	3182.3
87.5°	1498.1	1556.1	1491.3	1561.3	1709.7	1986.1	3071.3	3692.4	3868.2	3719.7	2733.5
90°	1301.9	1361.6	1308.7	1281.4	1400.9	1585.2	2455.4	2871.7	3037.2	2946.8	2011.7
92.5°	1042.6	1093.7	1044.3	981.1	1052.8	1163.7	1824.0	2010.0	2049.3	1962.2	1319.0
95°	788.3	825.9	781.5	718.4	726.9	796.8	1257.5	1317.3	1307.0	1202.9	837.8
97.5°	547.7	569.9	540.9	496.5	511.9	556.3	832.7	825.9	825.9	735.4	547.7
100°	380.5	389.0	375.4	354.9	366.9	395.9	559.7	558.0	540.9	496.5	399.3
102.5°	302.0	303.7	290.1	276.4	269.6	296.9	404.4	402.7	406.1	385.6	312.3
105°	266.2	264.5	252.5	240.6	226.9	254.2	320.8	334.4	332.7	315.7	267.9
107.5°	244.0	242.3	230.4	220.1	208.2	232.1	278.1	296.9	295.2	293.5	252.5
110°	226.9	225.2	215.0	204.8	194.5	221.8	261.1	290.1	290.1	290.1	255.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	215.0	215.0	206.5	197.9	189.4	220.1	250.8	285.0	285.0	293.5	267.9
115°	208.2	206.5	199.6	194.5	187.7	221.8	247.4	281.5	283.2	295.2	266.2
117.5°	203.1	201.3	196.2	189.4	186.0	218.4	249.1	288.4	286.7	305.4	261.1
120°	194.5	191.1	184.3	177.5	174.0	201.3	242.3	279.8	276.4	285.0	240.6
122.5°	187.7	177.5	165.5	160.4	160.4	182.6	226.9	252.5	249.1	242.3	216.7
125°	172.3	162.1	151.9	150.2	151.9	170.6	216.7	232.1	233.8	228.6	204.8
127.5°	155.3	148.4	143.3	143.3	146.7	167.2	213.3	223.5	223.5	213.3	194.5
130°	146.7	145.0	141.6	141.6	148.4	168.9	208.2	211.6	211.6	197.9	189.4
132.5°	143.3	139.9	136.5	136.5	143.3	163.8	194.5	201.3	199.6	186.0	179.2
135°	136.5	134.8	131.4	131.4	139.9	160.4	182.6	189.4	187.7	170.6	165.5
137.5°	133.1	129.7	129.7	129.7	138.2	158.7	172.3	177.5	175.7	158.7	153.6
140°	128.0	126.3	122.9	122.9	134.8	153.6	162.1	163.8	162.1	148.4	143.3
142.5°	119.4	117.7	116.0	119.4	131.4	145.0	151.9	151.9	150.2	141.6	134.8
145°	114.3	112.6	110.9	119.4	129.7	136.5	143.3	138.2	138.2	133.1	126.3
147.5°	109.2	107.5	107.5	114.3	122.9	122.9	128.0	126.3	128.0	126.3	119.4
150°	99.0	97.3	97.3	102.4	104.1	104.1	109.2	109.2	109.2	109.2	104.1
152.5°	87.0	85.3	87.0	88.7	88.7	88.7	92.1	93.8	93.8	92.1	90.4
155°	75.1	75.1	75.1	76.8	76.8	75.1	80.2	80.2	80.2	80.2	78.5
157.5°	66.5	66.5	66.5	66.5	66.5	64.8	68.3	68.3	70.0	68.3	68.3
160°	58.0	56.3	56.3	56.3	56.3	54.6	56.3	56.3	56.3	58.0	58.0
162.5°	46.1	44.4	44.4	44.4	44.4	41.0	44.4	42.7	44.4	44.4	46.1
165°	37.5	35.8	35.8	35.8	34.1	32.4	34.1	32.4	32.4	32.4	34.1
167.5°	29.0	29.0	27.3	29.0	27.3	23.9	23.9	22.2	22.2	22.2	22.2
170°	22.2	20.5	18.8	20.5	18.8	15.4	15.4	13.7	13.7	11.9	11.9
172.5°	15.4	13.7	11.9	13.7	11.9	8.5	8.5	5.1	5.1	5.1	5.1
175°	13.7	11.9	10.2	11.9	10.2	6.8	5.1	3.4	3.4	3.4	3.4
177.5°	13.7	11.9	10.2	11.9	10.2	6.8	5.1	3.4	3.4	3.4	3.4
180°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7
2.5°	102.4	100.7	99.0	102.4	100.7	102.4	104.1	105.8	105.8	104.1	104.1
5°	117.7	116.0	112.6	110.9	107.5	107.5	107.5	110.9	110.9	109.2	110.9
7.5°	139.9	136.5	131.4	128.0	122.9	122.9	121.1	124.6	126.3	122.9	124.6
10°	157.0	155.3	148.4	143.3	138.2	136.5	136.5	138.2	138.2	136.5	136.5
12.5°	172.3	168.9	162.1	157.0	150.2	148.4	148.4	150.2	150.2	148.4	148.4
15°	194.5	184.3	177.5	172.3	165.5	163.8	162.1	163.8	165.5	162.1	162.1
17.5°	225.2	213.3	197.9	184.3	177.5	180.9	182.6	184.3	182.6	177.5	177.5
20°	242.3	235.5	215.0	204.8	196.2	196.2	196.2	196.2	196.2	194.5	196.2
22.5°	254.2	244.0	218.4	211.6	206.5	209.9	213.3	215.0	215.0	213.3	213.3
25°	308.8	271.3	245.7	240.6	233.8	235.5	232.1	232.1	233.8	232.1	235.5
27.5°	424.9	363.4	305.4	285.0	279.8	279.8	283.2	283.2	283.2	283.2	281.5
30°	510.2	438.5	343.0	315.7	312.3	327.6	336.1	343.0	339.6	334.4	334.4
32.5°	523.8	445.3	349.8	339.6	348.1	360.0	368.6	373.7	378.8	377.1	375.4
35°	494.8	411.2	344.7	358.3	365.1	372.0	373.7	370.3	385.6	392.4	394.2
37.5°	552.8	460.7	401.0	411.2	402.7	395.9	399.3	401.0	421.5	431.7	441.9
40°	706.4	556.3	455.6	450.5	445.3	460.7	481.2	491.4	489.7	482.9	484.6
42.5°	854.9	650.1	513.6	511.9	510.2	537.5	569.9	568.2	552.8	540.9	540.9
45°	1006.7	740.5	605.7	607.4	604.0	614.3	622.8	616.0	617.7	621.1	624.5
47.5°	1100.6	822.4	663.8	658.6	636.5	656.9	680.8	665.5	660.3	651.8	655.2
50°	1122.7	842.9	697.9	735.4	714.9	699.6	674.0	663.8	682.5	696.2	706.4
52.5°	1458.9	1040.8	871.9	931.6	904.3	849.7	844.6	827.6	848.0	849.7	861.7
55°	2445.1	1668.8	1201.2	1259.3	1261.0	1242.2	1327.5	1279.7	1237.1	1218.3	1211.5
57.5°	3854.5	2579.9	1554.4	1627.8	1697.8	1764.3	1880.3	1783.1	1660.2	1644.9	1661.9
60°	4936.3	3643.0	1982.7	2189.2	2283.0	2286.4	2301.8	2206.3	2131.2	2138.0	2161.9
62.5°	5168.4	4530.2	2525.3	2610.6	2619.2	2556.0	2583.3	2644.8	2539.0	2455.4	2477.6
65°	5013.1	4881.7	2702.8	2481.0	2467.3	2477.6	2663.5	2834.2	2620.9	2409.3	2409.3
67.5°	4712.8	4613.8	2521.9	2231.8	2269.4	2385.4	2620.9	2706.2	2479.3	2254.0	2254.0
70°	4392.0	4194.1	2318.9	2033.9	2126.1	2260.9	2414.4	2421.2	2288.2	2127.8	2117.5
72.5°	4045.6	3866.5	2231.8	1975.9	2018.6	2042.4	2126.1	2178.9	2163.6	2059.5	2057.8
75°	3943.3	3798.2	2230.1	1948.6	1923.0	1914.5	1972.5	2086.8	2139.7	2078.3	2081.7
77.5°	3788.0	3701.0	2126.1	1834.3	1807.0	1807.0	1837.7	1929.8	2010.0	1984.4	1993.0
80°	3680.5	3549.1	1967.4	1709.7	1672.2	1677.3	1680.7	1743.8	1818.9	1822.3	1822.3
82.5°	3474.0	3226.6	1726.8	1523.7	1498.1	1505.0	1493.0	1528.8	1549.3	1574.9	1569.8
85°	3134.5	2784.7	1458.9	1320.7	1279.7	1266.1	1255.8	1257.5	1269.5	1264.4	1243.9
87.5°	2626.0	2208.0	1163.7	1083.5	1035.7	1001.6	987.9	970.9	969.2	950.4	957.2
90°	1938.4	1515.2	863.4	834.4	800.3	764.4	745.7	728.6	714.9	696.2	689.3
92.5°	1264.4	976.0	631.3	616.0	593.8	573.3	564.8	556.3	552.8	537.5	542.6
95°	790.0	660.3	474.4	457.3	445.3	440.2	441.9	443.6	440.2	423.2	428.3
97.5°	527.2	477.8	370.3	358.3	346.4	344.7	346.4	349.8	351.5	339.6	343.0
100°	389.0	366.9	303.7	295.2	285.0	281.5	283.2	286.7	288.4	278.1	279.8
102.5°	308.8	298.6	262.8	259.4	247.4	244.0	247.4	249.1	250.8	244.0	244.0
105°	271.3	271.3	242.3	240.6	232.1	228.6	230.4	232.1	233.8	226.9	226.9
107.5°	261.1	262.8	233.8	235.5	230.4	228.6	232.1	235.5	233.8	228.6	226.9
110°	269.6	273.0	233.8	238.9	240.6	244.0	250.8	252.5	252.5	249.1	250.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	278.1	283.2	230.4	242.3	254.2	262.8	274.7	281.5	278.1	276.4	278.1
115°	271.3	274.7	215.0	233.8	255.9	267.9	271.3	271.3	262.8	262.8	264.5
117.5°	262.8	269.6	199.6	215.0	230.4	240.6	238.9	233.8	223.5	220.1	230.4
120°	244.0	264.5	191.1	194.5	196.2	199.6	194.5	189.4	180.9	179.2	186.0
122.5°	225.2	244.0	175.7	172.3	170.6	170.6	168.9	167.2	162.1	163.8	170.6
125°	209.9	220.1	160.4	155.3	153.6	155.3	155.3	155.3	151.9	148.4	148.4
127.5°	197.9	201.3	151.9	145.0	143.3	143.3	143.3	145.0	143.3	138.2	138.2
130°	191.1	189.4	146.7	134.8	133.1	134.8	134.8	136.5	133.1	129.7	129.7
132.5°	177.5	174.0	139.9	128.0	126.3	128.0	128.0	128.0	124.6	121.1	121.1
135°	162.1	158.7	131.4	119.4	117.7	119.4	119.4	121.1	117.7	114.3	114.3
137.5°	150.2	146.7	122.9	112.6	110.9	110.9	112.6	112.6	110.9	107.5	107.5
140°	139.9	136.5	114.3	105.8	102.4	104.1	104.1	104.1	102.4	99.0	99.0
142.5°	131.4	129.7	105.8	97.3	93.8	95.6	95.6	97.3	93.8	90.4	90.4
145°	124.6	121.1	99.0	88.7	87.0	87.0	87.0	88.7	85.3	81.9	81.9
147.5°	117.7	114.3	90.4	80.2	78.5	78.5	78.5	78.5	76.8	73.4	71.7
150°	104.1	102.4	83.6	73.4	70.0	70.0	70.0	68.3	64.8	61.4	61.4
152.5°	88.7	87.0	73.4	64.8	61.4	61.4	59.7	59.7	56.3	54.6	52.9
155°	76.8	76.8	66.5	58.0	54.6	52.9	51.2	51.2	49.5	47.8	46.1
157.5°	68.3	66.5	59.7	52.9	46.1	46.1	44.4	44.4	42.7	41.0	39.2
160°	58.0	58.0	51.2	44.4	39.2	37.5	37.5	35.8	34.1	32.4	32.4
162.5°	46.1	46.1	41.0	35.8	30.7	30.7	29.0	29.0	27.3	25.6	23.9
165°	32.4	32.4	30.7	27.3	23.9	22.2	22.2	22.2	20.5	18.8	18.8
167.5°	22.2	22.2	20.5	18.8	17.1	15.4	17.1	17.1	15.4	13.7	13.7
170°	11.9	11.9	10.2	10.2	8.5	8.5	10.2	11.9	10.2	8.5	6.8
172.5°	5.1	5.1	5.1	5.1	3.4	5.1	6.8	8.5	6.8	5.1	5.1
175°	3.4	3.4	5.1	5.1	3.4	5.1	6.8	8.5	6.8	5.1	5.1
177.5°	3.4	3.4	5.1	5.1	3.4	5.1	6.8	8.5	6.8	5.1	5.1
180°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8

(END OF REPORT)