

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: P588400

Luminaire Tested: **ARC-CA6-120-727-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588400
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-CA6-120-727-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: 15178 lumens
Efficiency: N/A
Efficacy: 127.2 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

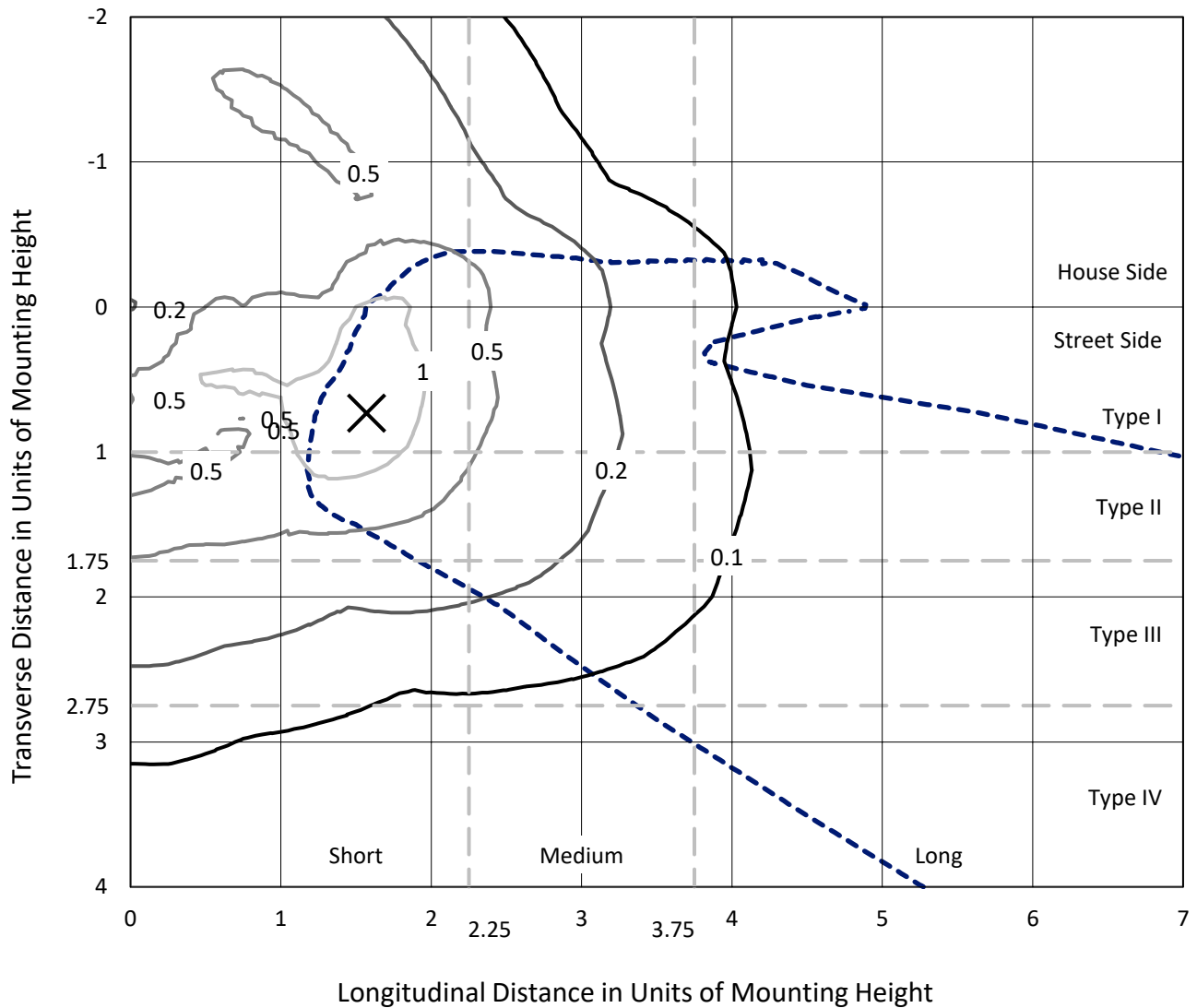
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

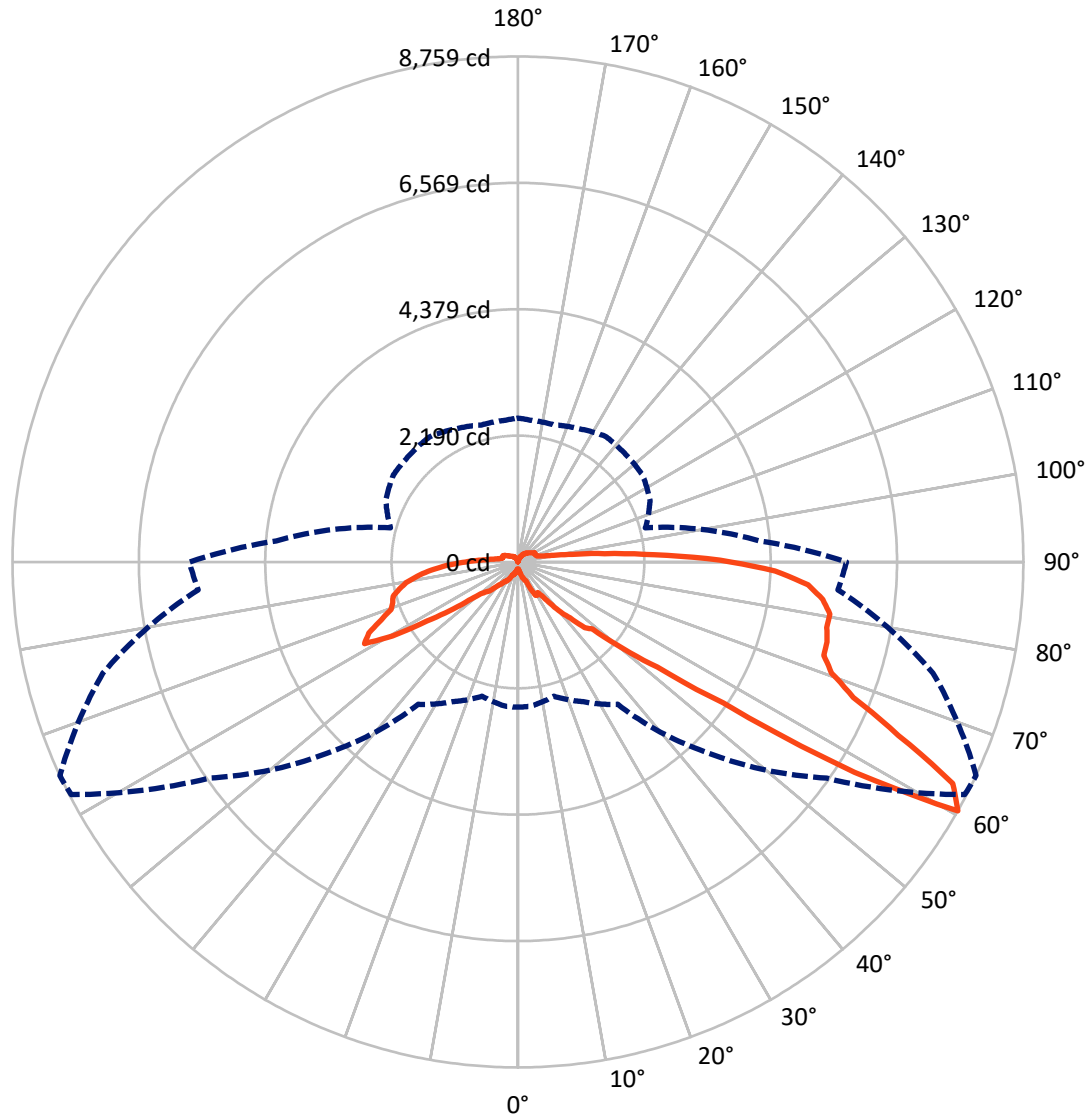
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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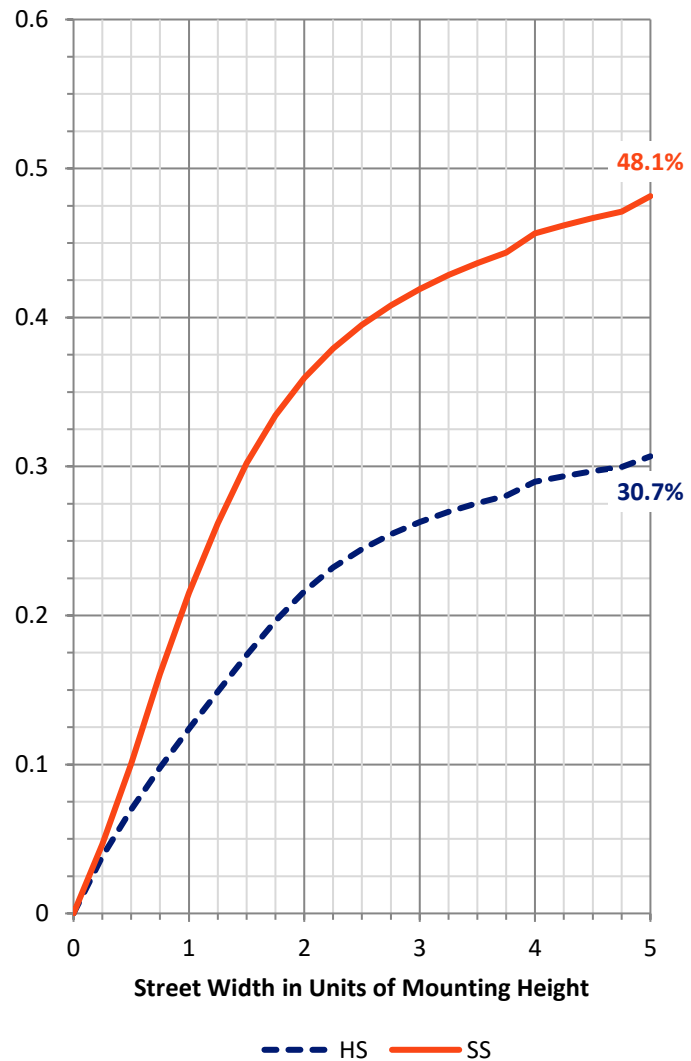
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5061.5	810.6	5872.1
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	8097.8	1208.2	9305.9
	% Fixture	53.4	8.0	61.3
Total	Lumens	13159.3	2018.7	15178.0
	% Fixture	86.7	13.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	0.1
10°-20°	64.8	0.4
20°-30°	185.4	1.2
30°-40°	399.2	2.6
40°-50°	755.4	5.0
50°-60°	2110.3	13.9
60°-70°	3762.2	24.8
70°-80°	3293.8	21.7
80°-90°	2573.6	17.0
90°-100°	973.0	6.4
100°-110°	334.7	2.2
110°-120°	273.6	1.8
120°-130°	183.9	1.2
130°-140°	126.2	0.8
140°-150°	79.3	0.5
150°-160°	36.8	0.2
160°-170°	10.4	0.1
170°-180°	0.9	0.0
0°-90°	13159.3	86.7
0°-180°	15178.0	100.0



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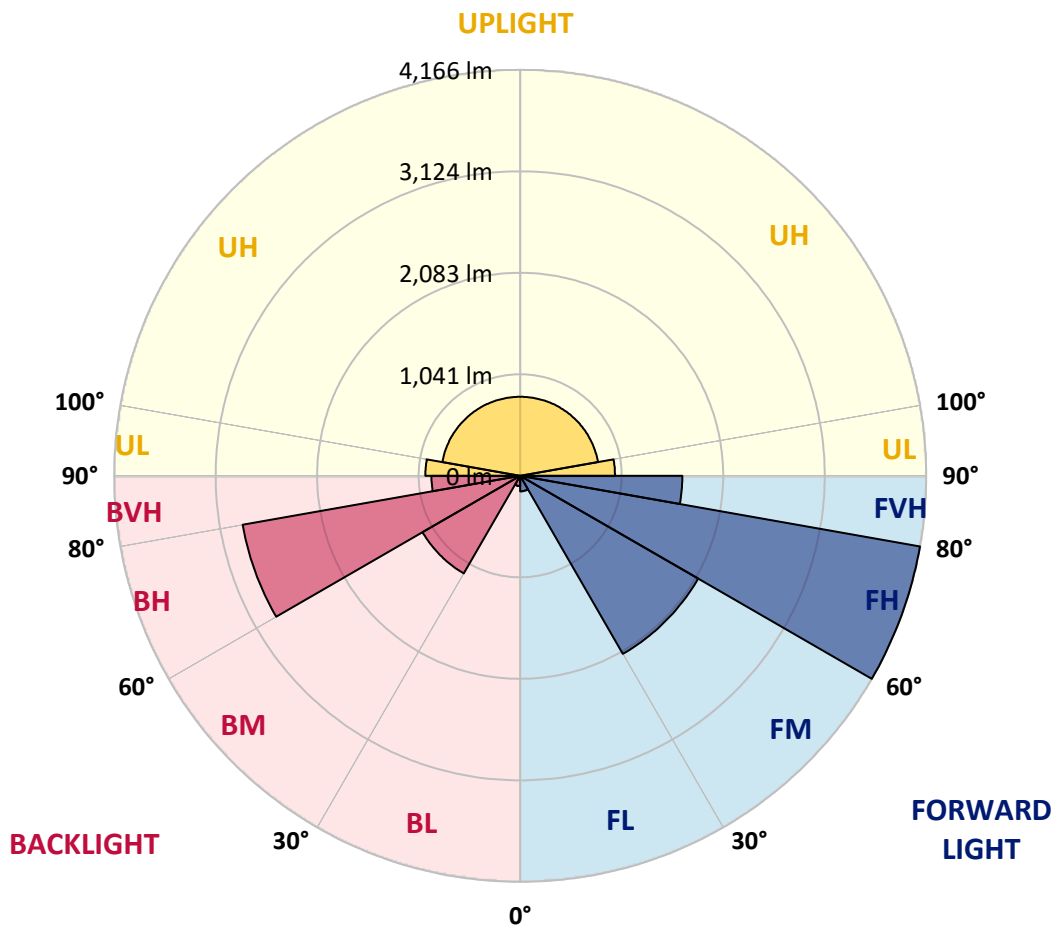
CATALOG NUMBER: ARC-CA6-120-727-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.9	1.1			
FM (30°-60°)	2108.8	13.9			
FH (60°-80°)	4165.5	27.4			G2/5000
FVH (80°-90°)	1663.5	11.0			G5
BL (0°-30°)	104.8	0.7	B0/110		
BM (30°-60°)	1156.1	7.6	B2/2500		
BH (60°-80°)	2890.5	19.0	B4/5000		G4/5000
BVH (80°-90°)	910.1	6.0			G5
UL (90°-100°)	973.0	6.4		U4/1000	
UH (100°-180°)	810.6	5.3		U4/1000	

BUG Rating: B4-U5-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1
2.5°	133.8	129.9	125.9	125.9	124.0	122.0	122.0	118.1	120.0	118.1	118.1
5°	157.4	155.5	151.5	153.5	149.6	147.6	147.6	145.6	143.6	141.7	135.8
7.5°	183.0	183.0	185.0	186.9	181.0	175.1	173.2	169.2	169.2	167.3	163.3
10°	210.6	208.6	200.7	200.7	196.8	192.8	194.8	192.8	192.8	192.8	185.0
12.5°	218.4	216.5	210.6	210.6	210.6	208.6	216.5	214.5	216.5	214.5	202.7
15°	246.0	244.0	242.0	244.0	251.9	267.6	287.3	279.4	281.4	277.5	234.2
17.5°	257.8	263.7	267.6	269.6	277.5	277.5	281.4	279.4	287.3	293.2	267.6
20°	299.1	295.2	299.1	312.9	332.6	334.5	328.6	328.6	332.6	334.5	285.3
22.5°	316.8	314.8	330.6	318.8	318.8	328.6	364.0	352.2	352.2	348.3	307.0
25°	411.3	419.1	434.9	454.6	501.8	515.6	554.9	511.6	517.5	456.5	389.6
27.5°	493.9	499.8	592.3	675.0	712.3	692.7	726.1	645.4	653.3	661.2	568.7
30°	519.5	531.3	665.1	726.1	775.3	736.0	779.3	673.0	667.1	712.3	675.0
32.5°	499.8	511.6	653.3	678.9	730.1	875.7	820.6	649.4	631.7	653.3	698.6
35°	549.0	556.9	641.5	580.5	627.7	1224.0	1074.4	757.6	722.2	602.1	669.1
37.5°	659.2	659.2	759.6	802.9	838.3	1444.4	1410.9	942.6	915.0	704.5	773.3
40°	798.9	795.0	919.0	948.5	964.2	1308.6	1706.1	1202.3	1141.3	828.4	1007.5
42.5°	883.5	875.7	976.0	1007.5	1007.5	1107.9	1930.4	1464.0	1322.4	966.2	1231.8
45°	917.0	924.9	1054.7	1015.4	1044.9	1137.4	2170.5	1826.1	1627.4	1133.5	1428.6
47.5°	830.4	842.2	1029.2	1033.1	883.5	909.1	1946.2	1897.0	1733.6	1214.1	1491.6
50°	1019.3	1027.2	1094.1	1048.8	976.0	1151.2	2318.1	2438.1	2367.3	1503.4	1574.2
52.5°	1399.1	1434.5	1497.5	1536.9	1515.2	1934.4	3109.1	3087.5	3028.5	2257.1	2148.8
55°	1812.3	1841.9	1930.4	2168.5	2349.6	2896.6	3866.7	4319.3	4315.4	3666.0	3349.2
57.5°	2188.2	2190.2	2202.0	2495.2	2774.6	3782.1	5065.1	6727.9	6877.5	5856.2	4795.5
60°	2514.9	2509.0	2408.6	2670.3	3010.7	4689.3	6529.2	8729.2	8758.7	7446.2	5563.0
62.5°	2603.4	2585.7	2440.1	2684.1	2975.3	4707.0	6903.1	8491.1	8457.6	7558.3	5663.3
65°	2526.7	2509.0	2324.0	2542.4	2680.1	4278.0	6375.7	7302.5	7247.4	6905.0	5391.8
67.5°	2412.5	2424.3	2241.3	2408.6	2503.0	4012.4	5820.8	6283.2	6267.5	6434.7	5165.5
70°	2247.2	2257.1	2089.8	2296.4	2434.2	3843.1	5289.5	5791.2	5763.7	6009.7	4832.9
72.5°	2253.1	2282.7	2083.9	2239.4	2383.0	3610.9	5049.4	5622.0	5541.3	5578.7	4433.5
75°	2268.9	2308.2	2097.7	2237.4	2371.2	3526.3	5021.8	5635.8	5533.5	5423.3	4281.9
77.5°	2274.8	2331.8	2105.6	2259.0	2375.1	3410.2	4958.9	5566.9	5470.5	5273.7	4102.9
80°	2227.6	2288.6	2072.1	2261.0	2349.6	3180.0	4799.5	5555.1	5482.3	5254.0	4030.1
82.5°	2133.1	2194.1	2007.2	2162.6	2300.4	2945.8	4575.1	5324.9	5320.9	5065.1	3876.6
85°	1926.5	1993.4	1851.7	1995.4	2164.6	2634.9	4122.6	4933.3	5041.5	4834.9	3670.0
87.5°	1727.7	1794.6	1719.9	1800.5	1971.7	2290.5	3542.0	4258.3	4461.0	4289.8	3152.4
90°	1501.4	1570.3	1509.3	1477.8	1615.6	1828.1	2831.7	3311.8	3502.7	3398.4	2320.0
92.5°	1202.3	1261.4	1204.3	1131.5	1214.1	1342.0	2103.6	2318.1	2363.3	2263.0	1521.1
95°	909.1	952.4	901.3	828.4	838.3	919.0	1450.3	1519.1	1507.3	1387.3	966.2
97.5°	631.7	657.2	623.8	572.6	590.3	641.5	960.3	952.4	952.4	848.1	631.7
100°	438.8	448.7	432.9	409.3	423.1	456.5	645.4	643.5	623.8	572.6	460.5
102.5°	348.3	350.3	334.5	318.8	310.9	342.4	466.4	464.4	468.3	444.7	360.1
105°	307.0	305.0	291.2	277.5	261.7	293.2	369.9	385.7	383.7	364.0	308.9
107.5°	281.4	279.4	265.7	253.8	240.1	267.6	320.8	342.4	340.4	338.5	291.2
110°	261.7	259.8	247.9	236.1	224.3	255.8	301.1	334.5	334.5	334.5	295.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	247.9	247.9	238.1	228.3	218.4	253.8	289.3	328.6	328.6	338.5	308.9
115°	240.1	238.1	230.2	224.3	216.5	255.8	285.3	324.7	326.7	340.4	307.0
117.5°	234.2	232.2	226.3	218.4	214.5	251.9	287.3	332.6	330.6	352.2	301.1
120°	224.3	220.4	212.5	204.7	200.7	232.2	279.4	322.7	318.8	328.6	277.5
122.5°	216.5	204.7	190.9	185.0	185.0	210.6	261.7	291.2	287.3	279.4	249.9
125°	198.7	186.9	175.1	173.2	175.1	196.8	249.9	267.6	269.6	263.7	236.1
127.5°	179.1	171.2	165.3	165.3	169.2	192.8	246.0	257.8	257.8	246.0	224.3
130°	169.2	167.3	163.3	163.3	171.2	194.8	240.1	244.0	244.0	228.3	218.4
132.5°	165.3	161.4	157.4	157.4	165.3	188.9	224.3	232.2	230.2	214.5	206.6
135°	157.4	155.5	151.5	151.5	161.4	185.0	210.6	218.4	216.5	196.8	190.9
137.5°	153.5	149.6	149.6	149.6	159.4	183.0	198.7	204.7	202.7	183.0	177.1
140°	147.6	145.6	141.7	141.7	155.5	177.1	186.9	188.9	186.9	171.2	165.3
142.5°	137.7	135.8	133.8	137.7	151.5	167.3	175.1	175.1	173.2	163.3	155.5
145°	131.8	129.9	127.9	137.7	149.6	157.4	165.3	159.4	159.4	153.5	145.6
147.5°	125.9	124.0	124.0	131.8	141.7	141.7	147.6	145.6	147.6	145.6	137.7
150°	114.1	112.2	112.2	118.1	120.0	120.0	125.9	125.9	125.9	125.9	120.0
152.5°	100.4	98.4	100.4	102.3	102.3	102.3	106.3	108.2	108.2	106.3	104.3
155°	86.6	86.6	86.6	88.6	88.6	86.6	92.5	92.5	92.5	92.5	90.5
157.5°	76.7	76.7	76.7	76.7	76.7	74.8	78.7	78.7	80.7	78.7	78.7
160°	66.9	64.9	64.9	64.9	64.9	63.0	64.9	64.9	64.9	66.9	66.9
162.5°	53.1	51.2	51.2	51.2	51.2	47.2	51.2	49.2	51.2	51.2	53.1
165°	43.3	41.3	41.3	41.3	39.4	37.4	39.4	37.4	37.4	37.4	39.4
167.5°	33.5	33.5	31.5	33.5	31.5	27.5	27.5	25.6	25.6	25.6	25.6
170°	25.6	23.6	21.6	23.6	21.6	17.7	17.7	15.7	15.7	13.8	13.8
172.5°	17.7	15.7	13.8	15.7	13.8	9.8	9.8	5.9	5.9	5.9	5.9
175°	15.7	13.8	11.8	13.8	11.8	7.9	5.9	3.9	3.9	3.9	3.9
177.5°	15.7	13.8	11.8	13.8	11.8	7.9	5.9	3.9	3.9	3.9	3.9
180°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1	116.1
2.5°	118.1	116.1	114.1	118.1	116.1	118.1	120.0	122.0	122.0	120.0	120.0
5°	135.8	133.8	129.9	127.9	124.0	124.0	124.0	127.9	127.9	125.9	127.9
7.5°	161.4	157.4	151.5	147.6	141.7	141.7	139.7	143.6	145.6	141.7	143.6
10°	181.0	179.1	171.2	165.3	159.4	157.4	157.4	159.4	159.4	157.4	157.4
12.5°	198.7	194.8	186.9	181.0	173.2	171.2	171.2	173.2	173.2	171.2	171.2
15°	224.3	212.5	204.7	198.7	190.9	188.9	186.9	188.9	190.9	186.9	186.9
17.5°	259.8	246.0	228.3	212.5	204.7	208.6	210.6	212.5	210.6	204.7	204.7
20°	279.4	271.6	247.9	236.1	226.3	226.3	226.3	226.3	226.3	224.3	226.3
22.5°	293.2	281.4	251.9	244.0	238.1	242.0	246.0	247.9	247.9	246.0	246.0
25°	356.2	312.9	283.4	277.5	269.6	271.6	267.6	267.6	269.6	267.6	271.6
27.5°	490.0	419.1	352.2	328.6	322.7	322.7	326.7	326.7	326.7	326.7	324.7
30°	588.4	505.7	395.5	364.0	360.1	377.8	387.7	395.5	391.6	385.7	385.7
32.5°	604.1	513.6	403.4	391.6	401.4	415.2	425.0	430.9	436.9	434.9	432.9
35°	570.7	474.2	397.5	413.2	421.1	429.0	430.9	427.0	444.7	452.6	454.6
37.5°	637.6	531.3	462.4	474.2	464.4	456.5	460.5	462.4	486.0	497.9	509.7
40°	814.7	641.5	525.4	519.5	513.6	531.3	554.9	566.7	564.8	556.9	558.9
42.5°	985.9	749.7	592.3	590.3	588.4	619.9	657.2	655.3	637.6	623.8	623.8
45°	1161.0	854.0	698.6	700.5	696.6	708.4	718.2	710.4	712.3	716.3	720.2
47.5°	1269.2	948.5	765.5	759.6	734.0	757.6	785.2	767.4	761.5	751.7	755.6
50°	1294.8	972.1	804.8	848.1	824.5	806.8	777.3	765.5	787.1	802.9	814.7
52.5°	1682.5	1200.4	1005.5	1074.4	1042.9	980.0	974.1	954.4	978.0	980.0	993.7
55°	2819.9	1924.5	1385.3	1452.2	1454.2	1432.6	1531.0	1475.9	1426.7	1405.0	1397.1
57.5°	4445.3	2975.3	1792.7	1877.3	1958.0	2034.7	2168.5	2056.4	1914.7	1897.0	1916.6
60°	5692.9	4201.3	2286.6	2524.7	2632.9	2636.9	2654.6	2544.4	2457.8	2465.7	2493.2
62.5°	5960.5	5224.5	2912.4	3010.7	3020.6	2947.8	2979.3	3050.1	2928.1	2831.7	2857.3
65°	5781.4	5629.9	3117.0	2861.2	2845.4	2857.3	3071.7	3268.5	3022.5	2778.5	2778.5
67.5°	5435.1	5320.9	2908.4	2573.9	2617.2	2751.0	3022.5	3120.9	2859.2	2599.5	2599.5
70°	5065.1	4836.9	2674.2	2345.6	2451.9	2607.3	2784.4	2792.3	2638.8	2453.9	2442.0
72.5°	4665.7	4459.0	2573.9	2278.7	2327.9	2355.5	2451.9	2512.9	2495.2	2375.1	2373.2
75°	4547.6	4380.3	2571.9	2247.2	2217.7	2207.9	2274.8	2406.6	2467.6	2396.8	2400.7
77.5°	4368.5	4268.2	2451.9	2115.4	2083.9	2083.9	2119.3	2225.6	2318.1	2288.6	2298.4
80°	4244.6	4093.0	2268.9	1971.7	1928.4	1934.4	1938.3	2011.1	2097.7	2101.6	2101.6
82.5°	4006.5	3721.1	1991.4	1757.2	1727.7	1735.6	1721.8	1763.2	1786.8	1816.3	1810.4
85°	3614.9	3211.5	1682.5	1523.1	1475.9	1460.1	1448.3	1450.3	1464.0	1458.1	1434.5
87.5°	3028.5	2546.3	1342.0	1249.6	1194.5	1155.1	1139.4	1119.7	1117.7	1096.1	1103.9
90°	2235.4	1747.4	995.7	962.3	922.9	881.6	859.9	840.3	824.5	802.9	795.0
92.5°	1458.1	1125.6	728.1	710.4	684.8	661.2	651.3	641.5	637.6	619.9	625.8
95°	911.1	761.5	547.0	527.4	513.6	507.7	509.7	511.6	507.7	488.0	493.9
97.5°	608.1	551.0	427.0	413.2	399.5	397.5	399.5	403.4	405.4	391.6	395.5
100°	448.7	423.1	350.3	340.4	328.6	324.7	326.7	330.6	332.6	320.8	322.7
102.5°	356.2	344.4	303.0	299.1	285.3	281.4	285.3	287.3	289.3	281.4	281.4
105°	312.9	312.9	279.4	277.5	267.6	263.7	265.7	267.6	269.6	261.7	261.7
107.5°	301.1	303.0	269.6	271.6	265.7	263.7	267.6	271.6	269.6	263.7	261.7
110°	310.9	314.8	269.6	275.5	277.5	281.4	289.3	291.2	291.2	287.3	289.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	320.8	326.7	265.7	279.4	293.2	303.0	316.8	324.7	320.8	318.8	320.8
115°	312.9	316.8	247.9	269.6	295.2	308.9	312.9	312.9	303.0	303.0	305.0
117.5°	303.0	310.9	230.2	247.9	265.7	277.5	275.5	269.6	257.8	253.8	265.7
120°	281.4	305.0	220.4	224.3	226.3	230.2	224.3	218.4	208.6	206.6	214.5
122.5°	259.8	281.4	202.7	198.7	196.8	196.8	194.8	192.8	186.9	188.9	196.8
125°	242.0	253.8	185.0	179.1	177.1	179.1	179.1	179.1	175.1	171.2	171.2
127.5°	228.3	232.2	175.1	167.3	165.3	165.3	165.3	167.3	165.3	159.4	159.4
130°	220.4	218.4	169.2	155.5	153.5	155.5	155.5	157.4	153.5	149.6	149.6
132.5°	204.7	200.7	161.4	147.6	145.6	147.6	147.6	147.6	143.6	139.7	139.7
135°	186.9	183.0	151.5	137.7	135.8	137.7	137.7	139.7	135.8	131.8	131.8
137.5°	173.2	169.2	141.7	129.9	127.9	127.9	129.9	129.9	127.9	124.0	124.0
140°	161.4	157.4	131.8	122.0	118.1	120.0	120.0	120.0	118.1	114.1	114.1
142.5°	151.5	149.6	122.0	112.2	108.2	110.2	110.2	112.2	108.2	104.3	104.3
145°	143.6	139.7	114.1	102.3	100.4	100.4	100.4	102.3	98.4	94.5	94.5
147.5°	135.8	131.8	104.3	92.5	90.5	90.5	90.5	90.5	88.6	84.6	82.6
150°	120.0	118.1	96.4	84.6	80.7	80.7	80.7	78.7	74.8	70.8	70.8
152.5°	102.3	100.4	84.6	74.8	70.8	70.8	68.9	68.9	64.9	63.0	61.0
155°	88.6	88.6	76.7	66.9	63.0	61.0	59.0	59.0	57.1	55.1	53.1
157.5°	78.7	76.7	68.9	61.0	53.1	53.1	51.2	51.2	49.2	47.2	45.3
160°	66.9	66.9	59.0	51.2	45.3	43.3	43.3	41.3	39.4	37.4	37.4
162.5°	53.1	53.1	47.2	41.3	35.4	35.4	33.5	33.5	31.5	29.5	27.5
165°	37.4	37.4	35.4	31.5	27.5	25.6	25.6	25.6	23.6	21.6	21.6
167.5°	25.6	25.6	23.6	21.6	19.7	17.7	19.7	19.7	17.7	15.7	15.7
170°	13.8	13.8	11.8	11.8	9.8	9.8	11.8	13.8	11.8	9.8	7.9
172.5°	5.9	5.9	5.9	5.9	3.9	5.9	7.9	9.8	7.9	5.9	5.9
175°	3.9	3.9	5.9	5.9	3.9	5.9	7.9	9.8	7.9	5.9	5.9
177.5°	3.9	3.9	5.9	5.9	3.9	5.9	7.9	9.8	7.9	5.9	5.9
180°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9

(END OF REPORT)