

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: P588424

Luminaire Tested: **ARC-CA6-130-727-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588424
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-CA6-130-727-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: 15779 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 - U5 - G5

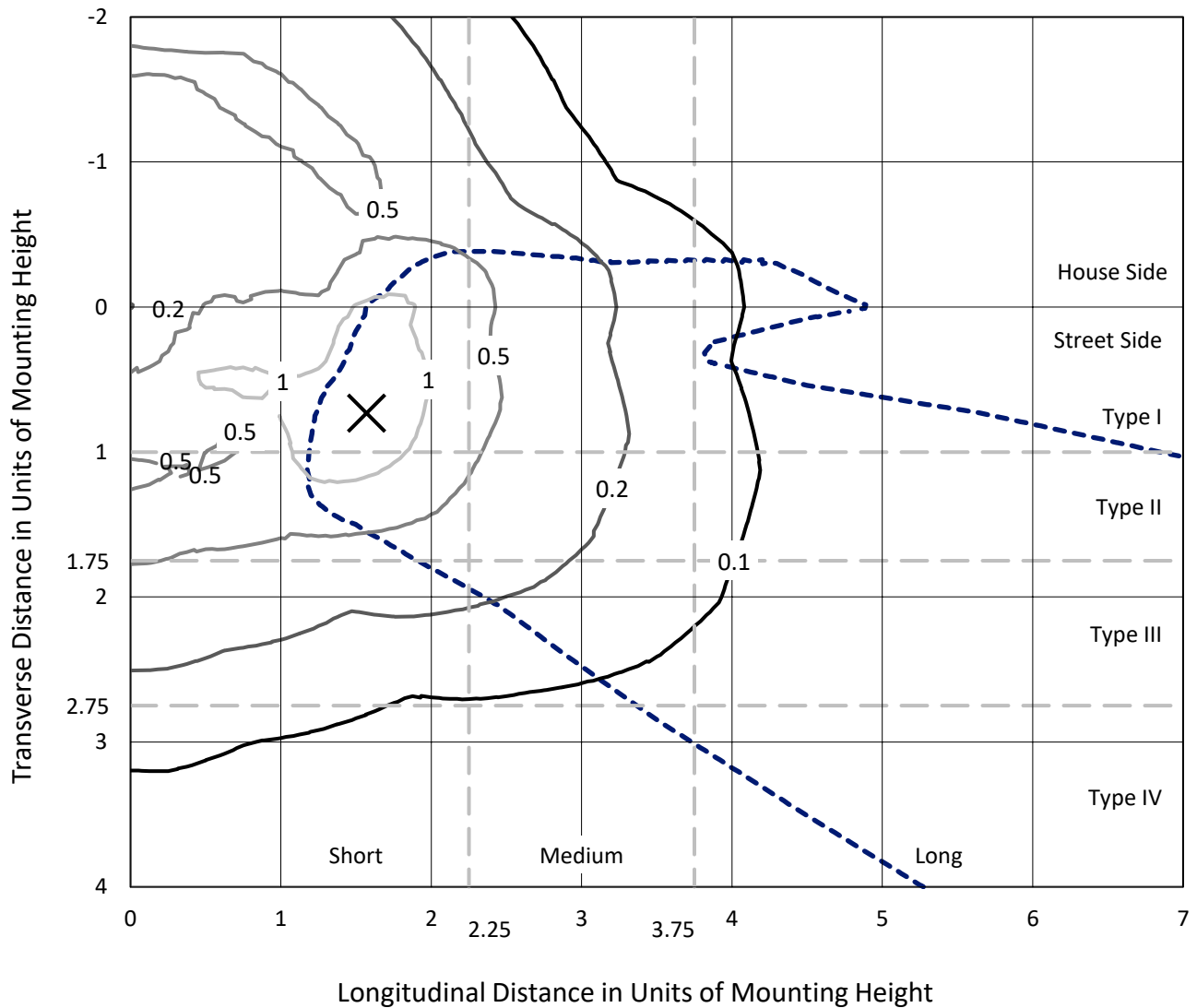
Input Watts (W): 124.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

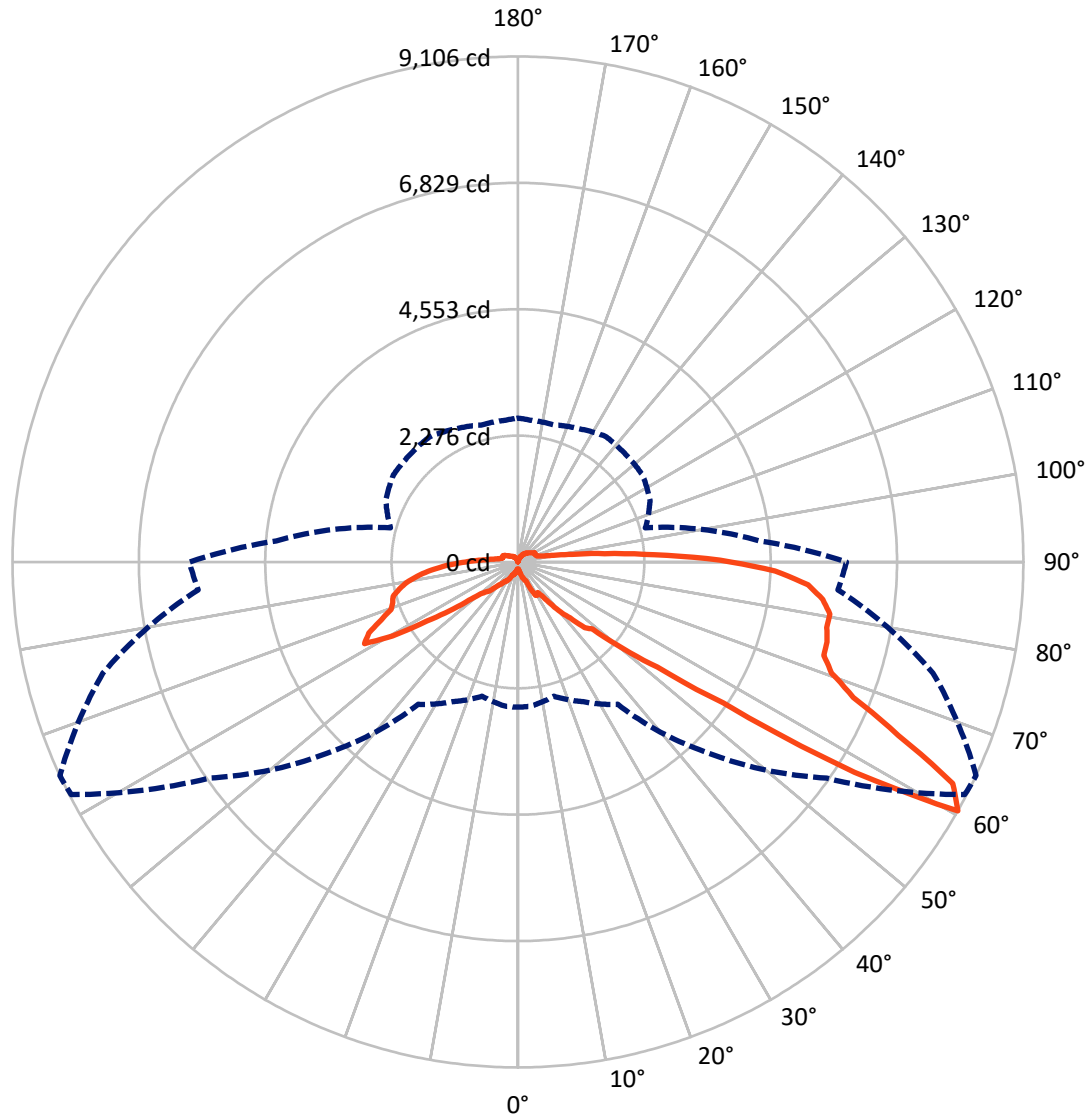
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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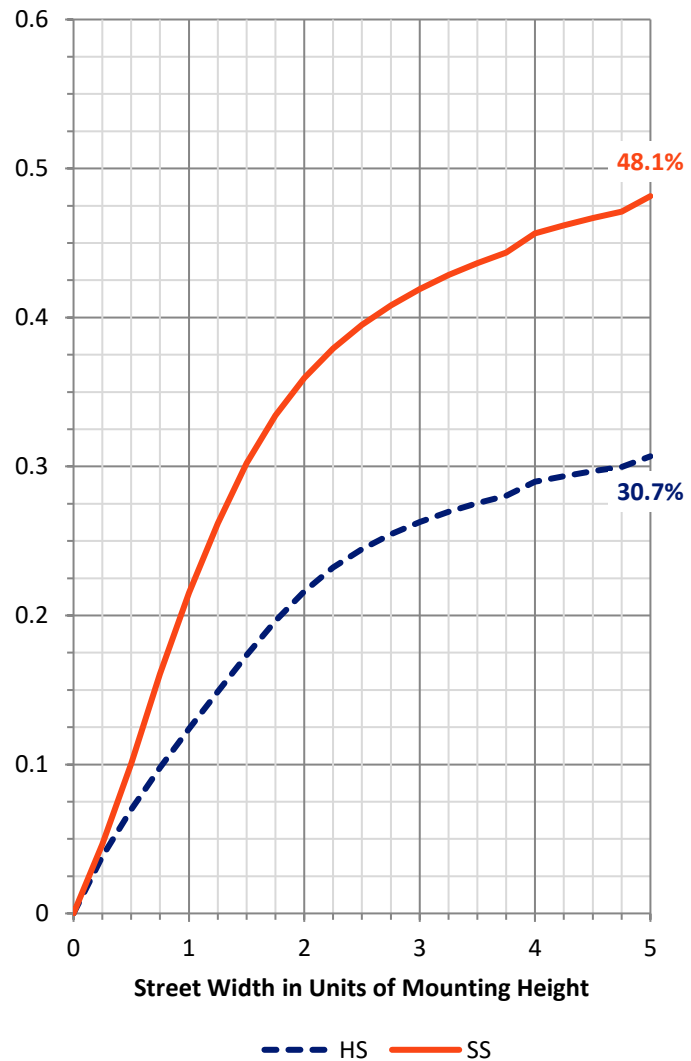
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5261.9	842.7	6104.6
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	8418.4	1256.0	9674.4
	% Fixture	53.4	8.0	61.3
Total	Lumens	13680.3	2098.7	15779.0
	% Fixture	86.7	13.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.1
10°-20°	67.4	0.4
20°-30°	192.7	1.2
30°-40°	415.0	2.6
40°-50°	785.3	5.0
50°-60°	2193.8	13.9
60°-70°	3911.1	24.8
70°-80°	3424.3	21.7
80°-90°	2675.5	17.0
90°-100°	1011.5	6.4
100°-110°	347.9	2.2
110°-120°	284.5	1.8
120°-130°	191.1	1.2
130°-140°	131.2	0.8
140°-150°	82.5	0.5
150°-160°	38.2	0.2
160°-170°	10.8	0.1
170°-180°	1.0	0.0
0°-90°	13680.3	86.7
0°-180°	15779.0	100.0



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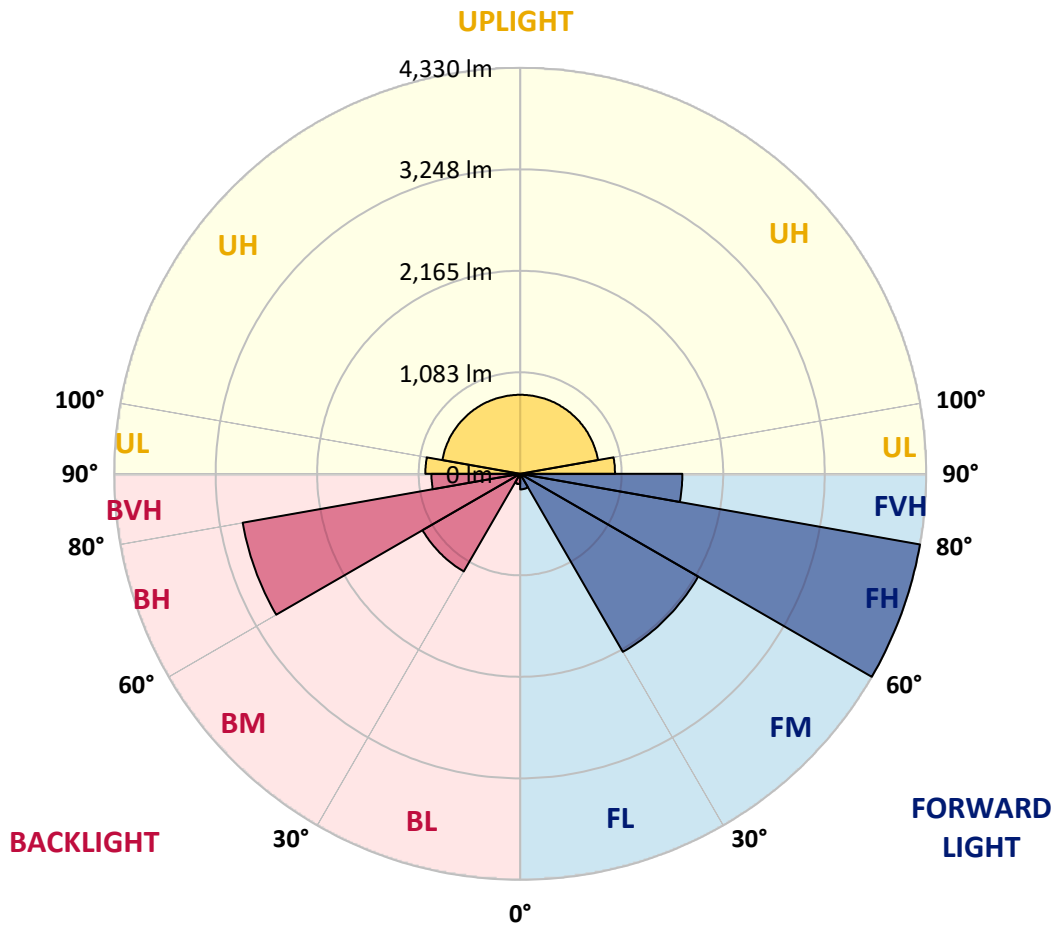
CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.3	1.1			
FM (30°-60°)	2192.3	13.9			
FH (60°-80°)	4330.5	27.4			G2/5000
FVH (80°-90°)	1729.4	11.0			G5
BL (0°-30°)	109.0	0.7	B0/110		
BM (30°-60°)	1201.8	7.6	B2/2500		
BH (60°-80°)	3005.0	19.0	B4/5000		G4/5000
BVH (80°-90°)	946.1	6.0			G5
UL (90°-100°)	1011.5	6.4		U5	
UH (100°-180°)	842.7	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°	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7
2.5°	139.1	135.0	130.9	130.9	128.9	126.8	126.8	122.7	124.8	122.7	122.7
5°	163.7	161.6	157.5	159.6	155.5	153.4	153.4	151.4	149.3	147.3	141.2
7.5°	190.3	190.3	192.3	194.3	188.2	182.1	180.0	175.9	175.9	173.9	169.8
10°	218.9	216.8	208.7	208.7	204.6	200.5	202.5	200.5	200.5	200.5	192.3
12.5°	227.1	225.0	218.9	218.9	218.9	216.8	225.0	223.0	225.0	223.0	210.7
15°	255.7	253.7	251.6	253.7	261.9	278.2	298.7	290.5	292.5	288.4	243.4
17.5°	268.0	274.1	278.2	280.3	288.4	288.4	292.5	290.5	298.7	304.8	278.2
20°	310.9	306.9	310.9	325.3	345.7	347.8	341.6	341.6	345.7	347.8	296.6
22.5°	329.4	327.3	343.7	331.4	331.4	341.6	378.5	366.2	366.2	362.1	319.1
25°	427.6	435.7	452.1	472.6	521.7	536.0	576.9	531.9	538.0	474.6	405.1
27.5°	513.5	519.6	615.8	701.7	740.6	720.1	754.9	671.0	679.2	687.4	591.2
30°	540.1	552.3	691.5	754.9	806.0	765.1	810.1	699.6	693.5	740.6	701.7
32.5°	519.6	531.9	679.2	705.8	759.0	910.3	853.1	675.1	656.7	679.2	726.2
35°	570.8	578.9	666.9	603.5	652.6	1272.4	1117.0	787.6	750.8	626.0	695.5
37.5°	685.3	685.3	789.6	834.7	871.5	1501.6	1466.8	979.9	951.3	732.4	804.0
40°	830.6	826.5	955.4	986.0	1002.4	1360.4	1773.6	1249.9	1186.5	861.2	1047.4
42.5°	918.5	910.3	1014.7	1047.4	1047.4	1151.7	2006.9	1522.0	1374.7	1004.5	1280.6
45°	953.3	961.5	1096.5	1055.6	1086.3	1182.4	2256.4	1898.4	1691.8	1178.3	1485.2
47.5°	863.3	875.6	1069.9	1074.0	918.5	945.1	2023.2	1972.1	1802.3	1262.2	1550.7
50°	1059.7	1067.9	1137.4	1090.4	1014.7	1196.7	2409.9	2534.7	2461.0	1562.9	1636.6
52.5°	1454.5	1491.3	1556.8	1597.7	1575.2	2010.9	3232.2	3209.7	3148.4	2346.4	2233.9
55°	1884.1	1914.8	2006.9	2254.4	2442.6	3011.3	4019.8	4490.4	4486.3	3811.2	3481.8
57.5°	2274.8	2276.9	2289.2	2594.0	2884.5	3931.9	5265.7	6994.3	7149.8	6088.1	4985.4
60°	2614.4	2608.3	2504.0	2776.0	3130.0	4875.0	6787.7	9074.8	9105.5	7741.0	5783.3
62.5°	2706.5	2688.1	2536.7	2790.4	3093.1	4893.4	7176.4	8827.3	8792.5	7857.6	5887.6
65°	2626.7	2608.3	2416.0	2643.1	2786.3	4447.4	6628.1	7591.7	7534.4	7178.4	5605.3
67.5°	2508.1	2520.3	2330.1	2504.0	2602.2	4171.2	6051.2	6532.0	6515.6	6689.5	5370.0
70°	2336.2	2346.4	2172.6	2387.4	2530.6	3995.3	5498.9	6020.6	5991.9	6247.6	5024.3
72.5°	2342.4	2373.0	2166.4	2328.0	2477.4	3753.9	5249.3	5844.6	5760.8	5799.6	4609.0
75°	2358.7	2399.6	2180.7	2326.0	2465.1	3665.9	5220.7	5859.0	5752.6	5638.0	4451.5
77.5°	2364.9	2424.2	2188.9	2348.5	2469.2	3545.2	5155.2	5787.4	5687.1	5482.5	4265.3
80°	2315.8	2379.2	2154.1	2350.5	2442.6	3305.9	4989.5	5775.1	5699.4	5462.1	4189.6
82.5°	2217.6	2281.0	2086.6	2248.2	2391.5	3062.4	4756.3	5535.7	5531.6	5265.7	4030.1
85°	2002.8	2072.3	1925.0	2074.4	2250.3	2739.2	4285.8	5128.6	5241.1	5026.3	3815.3
87.5°	1796.1	1865.7	1788.0	1871.8	2049.8	2381.2	3682.3	4426.9	4637.7	4459.7	3277.2
90°	1560.9	1632.5	1569.1	1536.3	1679.5	1900.5	2943.8	3443.0	3641.4	3533.0	2411.9
92.5°	1249.9	1311.3	1252.0	1176.3	1262.2	1395.2	2186.9	2409.9	2456.9	2352.6	1581.3
95°	945.1	990.1	936.9	861.2	871.5	955.4	1507.7	1579.3	1567.0	1442.2	1004.5
97.5°	656.7	683.3	648.5	595.3	613.7	666.9	998.3	990.1	990.1	881.7	656.7
100°	456.2	466.4	450.1	425.5	439.8	474.6	671.0	669.0	648.5	595.3	478.7
102.5°	362.1	364.1	347.8	331.4	323.2	356.0	484.8	482.8	486.9	462.3	374.4
105°	319.1	317.1	302.8	288.4	272.1	304.8	384.6	401.0	398.9	378.5	321.2
107.5°	292.5	290.5	276.2	263.9	249.6	278.2	333.5	356.0	353.9	351.9	302.8
110°	272.1	270.0	257.8	245.5	233.2	265.9	313.0	347.8	347.8	347.8	306.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	257.8	257.8	247.5	237.3	227.1	263.9	300.7	341.6	341.6	351.9	321.2
115°	249.6	247.5	239.3	233.2	225.0	265.9	296.6	337.5	339.6	353.9	319.1
117.5°	243.4	241.4	235.3	227.1	223.0	261.9	298.7	345.7	343.7	366.2	313.0
120°	233.2	229.1	220.9	212.8	208.7	241.4	290.5	335.5	331.4	341.6	288.4
122.5°	225.0	212.8	198.4	192.3	192.3	218.9	272.1	302.8	298.7	290.5	259.8
125°	206.6	194.3	182.1	180.0	182.1	204.6	259.8	278.2	280.3	274.1	245.5
127.5°	186.2	178.0	171.8	171.8	175.9	200.5	255.7	268.0	268.0	255.7	233.2
130°	175.9	173.9	169.8	169.8	178.0	202.5	249.6	253.7	253.7	237.3	227.1
132.5°	171.8	167.7	163.7	163.7	171.8	196.4	233.2	241.4	239.3	223.0	214.8
135°	163.7	161.6	157.5	157.5	167.7	192.3	218.9	227.1	225.0	204.6	198.4
137.5°	159.6	155.5	155.5	155.5	165.7	190.3	206.6	212.8	210.7	190.3	184.1
140°	153.4	151.4	147.3	147.3	161.6	184.1	194.3	196.4	194.3	178.0	171.8
142.5°	143.2	141.2	139.1	143.2	157.5	173.9	182.1	182.1	180.0	169.8	161.6
145°	137.1	135.0	133.0	143.2	155.5	163.7	171.8	165.7	165.7	159.6	151.4
147.5°	130.9	128.9	128.9	137.1	147.3	147.3	153.4	151.4	153.4	151.4	143.2
150°	118.7	116.6	116.6	122.7	124.8	124.8	130.9	130.9	130.9	130.9	124.8
152.5°	104.3	102.3	104.3	106.4	106.4	106.4	110.5	112.5	112.5	110.5	108.4
155°	90.0	90.0	90.0	92.1	92.1	90.0	96.1	96.1	96.1	96.1	94.1
157.5°	79.8	79.8	79.8	79.8	79.8	77.7	81.8	81.8	83.9	81.8	81.8
160°	69.6	67.5	67.5	67.5	67.5	65.5	67.5	67.5	67.5	69.6	69.6
162.5°	55.2	53.2	53.2	53.2	53.2	49.1	53.2	51.1	53.2	53.2	55.2
165°	45.0	43.0	43.0	43.0	40.9	38.9	40.9	38.9	38.9	38.9	40.9
167.5°	34.8	34.8	32.7	34.8	32.7	28.6	28.6	26.6	26.6	26.6	26.6
170°	26.6	24.5	22.5	24.5	22.5	18.4	18.4	16.4	16.4	14.3	14.3
172.5°	18.4	16.4	14.3	16.4	14.3	10.2	10.2	6.1	6.1	6.1	6.1
175°	16.4	14.3	12.3	14.3	12.3	8.2	6.1	4.1	4.1	4.1	4.1
177.5°	16.4	14.3	12.3	14.3	12.3	8.2	6.1	4.1	4.1	4.1	4.1
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7
2.5°	122.7	120.7	118.7	122.7	120.7	122.7	124.8	126.8	126.8	124.8	124.8
5°	141.2	139.1	135.0	133.0	128.9	128.9	128.9	133.0	133.0	130.9	133.0
7.5°	167.7	163.7	157.5	153.4	147.3	147.3	145.2	149.3	151.4	147.3	149.3
10°	188.2	186.2	178.0	171.8	165.7	163.7	163.7	165.7	165.7	163.7	163.7
12.5°	206.6	202.5	194.3	188.2	180.0	178.0	178.0	180.0	180.0	178.0	178.0
15°	233.2	220.9	212.8	206.6	198.4	196.4	194.3	196.4	198.4	194.3	194.3
17.5°	270.0	255.7	237.3	220.9	212.8	216.8	218.9	220.9	218.9	212.8	212.8
20°	290.5	282.3	257.8	245.5	235.3	235.3	235.3	235.3	235.3	233.2	235.3
22.5°	304.8	292.5	261.9	253.7	247.5	251.6	255.7	257.8	257.8	255.7	255.7
25°	370.3	325.3	294.6	288.4	280.3	282.3	278.2	278.2	280.3	278.2	282.3
27.5°	509.4	435.7	366.2	341.6	335.5	335.5	339.6	339.6	339.6	339.6	337.5
30°	611.7	525.8	411.2	378.5	374.4	392.8	403.0	411.2	407.1	401.0	401.0
32.5°	628.0	533.9	419.4	407.1	417.3	431.6	441.9	448.0	454.2	452.1	450.1
35°	593.3	493.0	413.2	429.6	437.8	446.0	448.0	443.9	462.3	470.5	472.6
37.5°	662.8	552.3	480.7	493.0	482.8	474.6	478.7	480.7	505.3	517.6	529.8
40°	846.9	666.9	546.2	540.1	533.9	552.3	576.9	589.2	587.1	578.9	581.0
42.5°	1024.9	779.4	615.8	613.7	611.7	644.4	683.3	681.2	662.8	648.5	648.5
45°	1207.0	887.8	726.2	728.3	724.2	736.5	746.7	738.5	740.6	744.6	748.7
47.5°	1319.5	986.0	795.8	789.6	763.1	787.6	816.2	797.8	791.7	781.5	785.6
50°	1346.1	1010.6	836.7	881.7	857.2	838.7	808.1	795.8	818.3	834.7	846.9
52.5°	1749.1	1247.9	1045.4	1117.0	1084.2	1018.8	1012.6	992.2	1016.7	1018.8	1033.1
55°	2931.5	2000.7	1440.2	1509.7	1511.8	1489.3	1591.6	1534.3	1483.1	1460.6	1452.5
57.5°	4621.3	3093.1	1863.7	1951.6	2035.5	2115.3	2254.4	2137.8	1990.5	1972.1	1992.5
60°	5918.3	4367.6	2377.1	2624.7	2737.2	2741.3	2759.7	2645.1	2555.1	2563.3	2591.9
62.5°	6196.5	5431.4	3027.7	3130.0	3140.2	3064.5	3097.2	3170.9	3044.0	2943.8	2970.4
65°	6010.3	5852.8	3240.4	2974.5	2958.1	2970.4	3193.4	3397.9	3142.2	2888.6	2888.6
67.5°	5650.3	5531.6	3023.6	2675.8	2720.8	2859.9	3142.2	3244.5	2972.4	2702.4	2702.4
70°	5265.7	5028.4	2780.1	2438.5	2549.0	2710.6	2894.7	2902.9	2743.3	2551.0	2538.7
72.5°	4850.4	4635.6	2675.8	2368.9	2420.1	2448.7	2549.0	2612.4	2594.0	2469.2	2467.1
75°	4727.7	4553.8	2673.8	2336.2	2305.5	2295.3	2364.9	2501.9	2565.3	2491.7	2495.8
77.5°	4541.5	4437.2	2549.0	2199.2	2166.4	2166.4	2203.2	2313.7	2409.9	2379.2	2389.4
80°	4412.6	4255.1	2358.7	2049.8	2004.8	2010.9	2015.0	2090.7	2180.7	2184.8	2184.8
82.5°	4165.1	3868.5	2070.3	1826.8	1796.1	1804.3	1790.0	1833.0	1857.5	1888.2	1882.1
85°	3758.0	3338.6	1749.1	1583.4	1534.3	1517.9	1505.7	1507.7	1522.0	1515.9	1491.3
87.5°	3148.4	2647.2	1395.2	1299.0	1241.8	1200.8	1184.5	1164.0	1162.0	1139.5	1147.7
90°	2323.9	1816.6	1035.1	1000.4	959.4	916.5	894.0	873.5	857.2	834.7	826.5
92.5°	1515.9	1170.2	756.9	738.5	711.9	687.4	677.1	666.9	662.8	644.4	650.5
95°	947.2	791.7	568.7	548.3	533.9	527.8	529.8	531.9	527.8	507.3	513.5
97.5°	632.1	572.8	443.9	429.6	415.3	413.2	415.3	419.4	421.4	407.1	411.2
100°	466.4	439.8	364.1	353.9	341.6	337.5	339.6	343.7	345.7	333.5	335.5
102.5°	370.3	358.0	315.0	310.9	296.6	292.5	296.6	298.7	300.7	292.5	292.5
105°	325.3	325.3	290.5	288.4	278.2	274.1	276.2	278.2	280.3	272.1	272.1
107.5°	313.0	315.0	280.3	282.3	276.2	274.1	278.2	282.3	280.3	274.1	272.1
110°	323.2	327.3	280.3	286.4	288.4	292.5	300.7	302.8	302.8	298.7	300.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	333.5	339.6	276.2	290.5	304.8	315.0	329.4	337.5	333.5	331.4	333.5
115°	325.3	329.4	257.8	280.3	306.9	321.2	325.3	325.3	315.0	315.0	317.1
117.5°	315.0	323.2	239.3	257.8	276.2	288.4	286.4	280.3	268.0	263.9	276.2
120°	292.5	317.1	229.1	233.2	235.3	239.3	233.2	227.1	216.8	214.8	223.0
122.5°	270.0	292.5	210.7	206.6	204.6	204.6	202.5	200.5	194.3	196.4	204.6
125°	251.6	263.9	192.3	186.2	184.1	186.2	186.2	186.2	182.1	178.0	178.0
127.5°	237.3	241.4	182.1	173.9	171.8	171.8	171.8	173.9	171.8	165.7	165.7
130°	229.1	227.1	175.9	161.6	159.6	161.6	161.6	163.7	159.6	155.5	155.5
132.5°	212.8	208.7	167.7	153.4	151.4	153.4	153.4	153.4	149.3	145.2	145.2
135°	194.3	190.3	157.5	143.2	141.2	143.2	143.2	145.2	141.2	137.1	137.1
137.5°	180.0	175.9	147.3	135.0	133.0	133.0	135.0	135.0	133.0	128.9	128.9
140°	167.7	163.7	137.1	126.8	122.7	124.8	124.8	124.8	122.7	118.7	118.7
142.5°	157.5	155.5	126.8	116.6	112.5	114.6	114.6	116.6	112.5	108.4	108.4
145°	149.3	145.2	118.7	106.4	104.3	104.3	104.3	106.4	102.3	98.2	98.2
147.5°	141.2	137.1	108.4	96.1	94.1	94.1	94.1	94.1	92.1	88.0	85.9
150°	124.8	122.7	100.2	88.0	83.9	83.9	83.9	81.8	77.7	73.6	73.6
152.5°	106.4	104.3	88.0	77.7	73.6	73.6	71.6	71.6	67.5	65.5	63.4
155°	92.1	92.1	79.8	69.6	65.5	63.4	61.4	61.4	59.3	57.3	55.2
157.5°	81.8	79.8	71.6	63.4	55.2	55.2	53.2	53.2	51.1	49.1	47.1
160°	69.6	69.6	61.4	53.2	47.1	45.0	45.0	43.0	40.9	38.9	38.9
162.5°	55.2	55.2	49.1	43.0	36.8	36.8	34.8	34.8	32.7	30.7	28.6
165°	38.9	38.9	36.8	32.7	28.6	26.6	26.6	26.6	24.5	22.5	22.5
167.5°	26.6	26.6	24.5	22.5	20.5	18.4	20.5	20.5	18.4	16.4	16.4
170°	14.3	14.3	12.3	12.3	10.2	10.2	12.3	14.3	12.3	10.2	8.2
172.5°	6.1	6.1	6.1	6.1	4.1	6.1	8.2	10.2	8.2	6.1	6.1
175°	4.1	4.1	6.1	6.1	4.1	6.1	8.2	10.2	8.2	6.1	6.1
177.5°	4.1	4.1	6.1	6.1	4.1	6.1	8.2	10.2	8.2	6.1	6.1
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2

(END OF REPORT)