

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: P588359

Luminaire Tested: **ARC-CA6-100-740-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
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-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9547 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

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



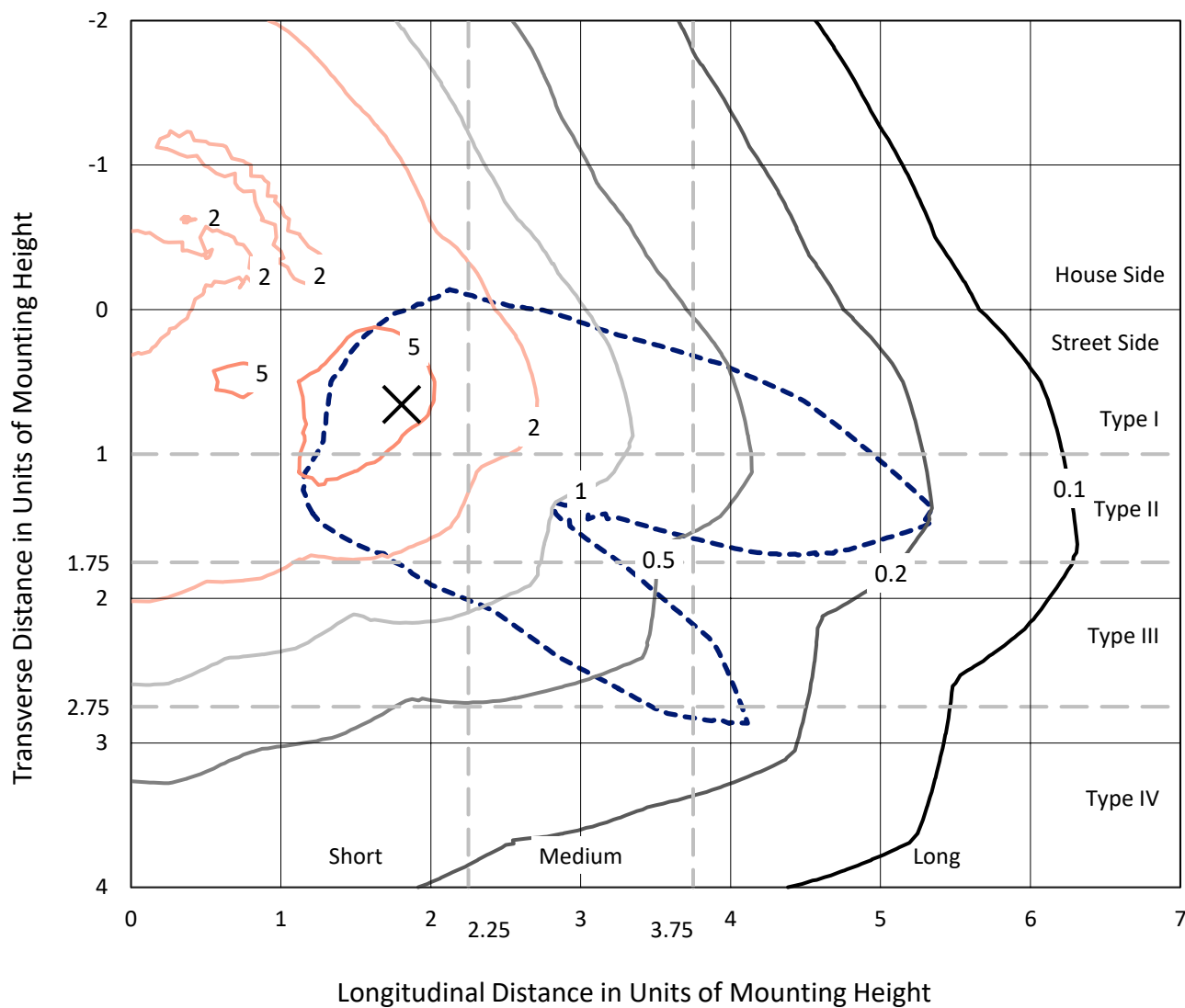
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

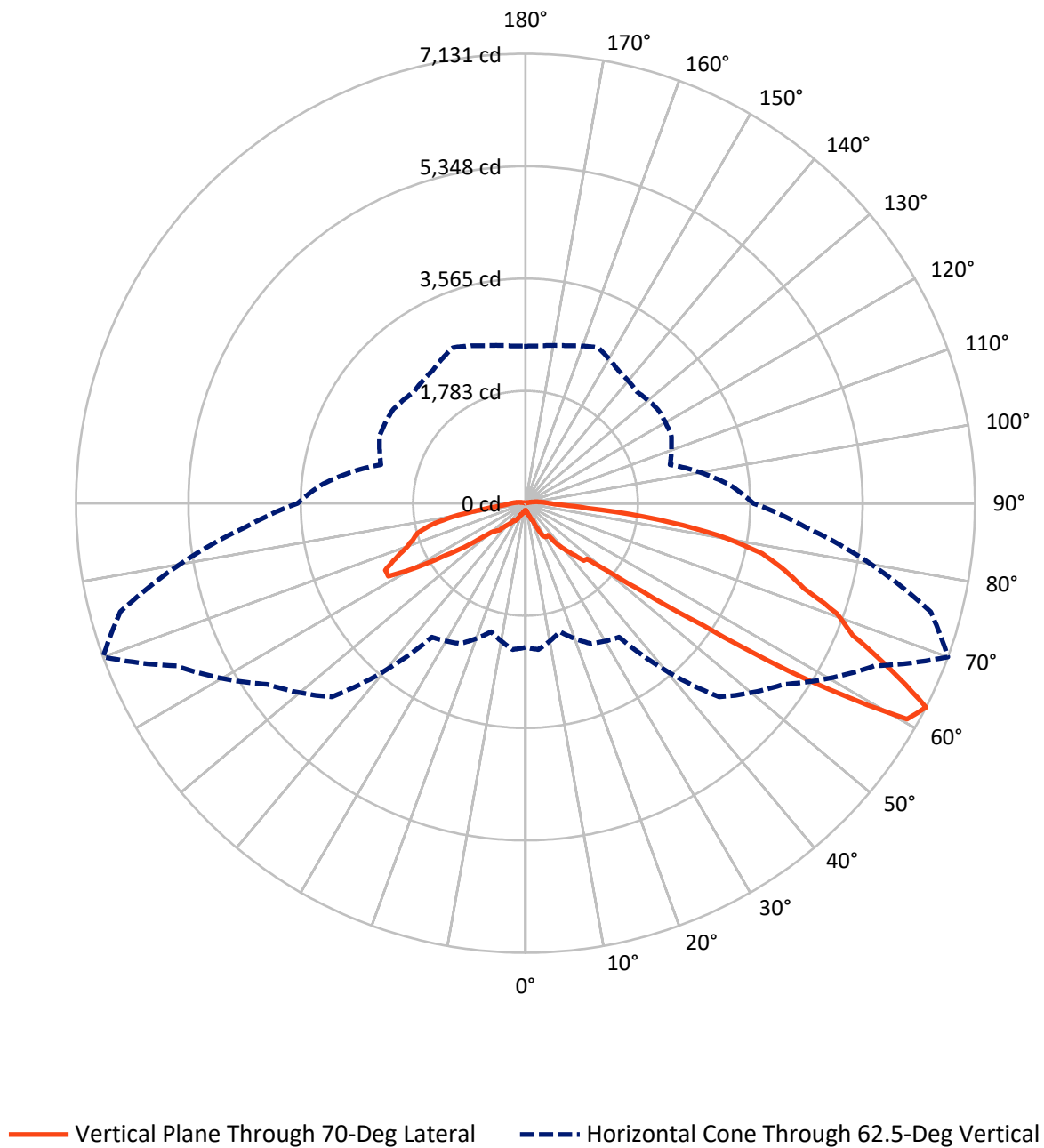


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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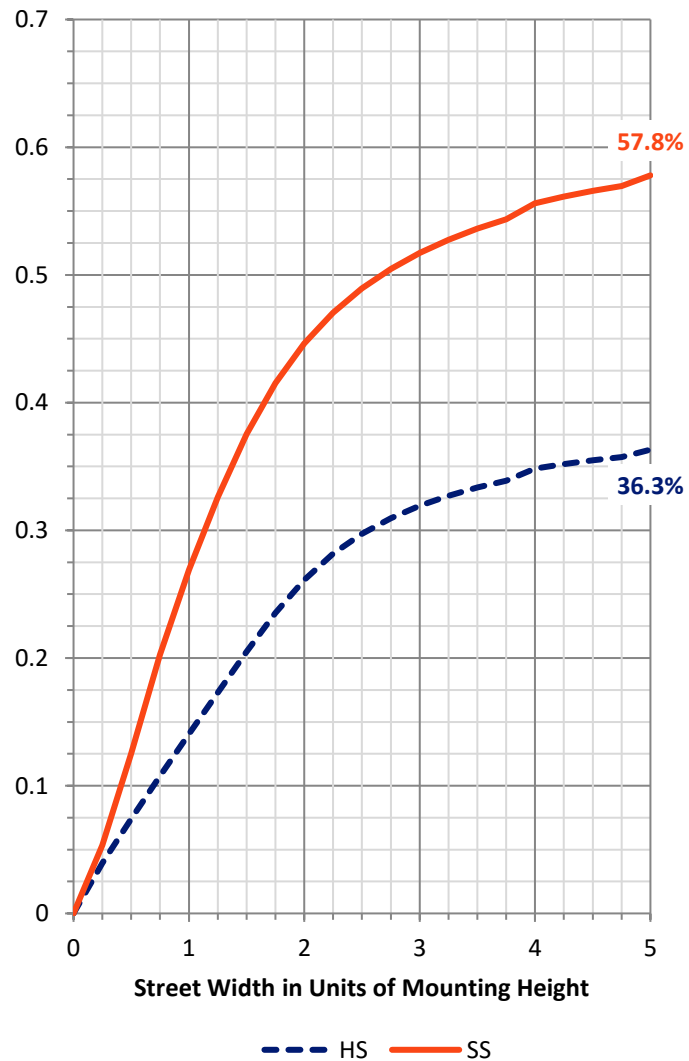
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.3	129.7	3668.1
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5700.7	178.3	5879.0
	% Fixture	59.7	1.9	61.6
Total	Lumens	9239.1	308.0	9547.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.1
10°-20°	52.0	0.5
20°-30°	161.0	1.7
30°-40°	345.4	3.6
40°-50°	647.1	6.8
50°-60°	1679.2	17.6
60°-70°	3076.0	32.2
70°-80°	2467.3	25.8
80°-90°	798.9	8.4
90°-100°	210.5	2.2
100°-110°	68.5	0.7
110°-120°	26.9	0.3
120°-130°	2.1	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9239.1	96.8
0°-180°	9547.0	100.0

Coefficient of Utilization



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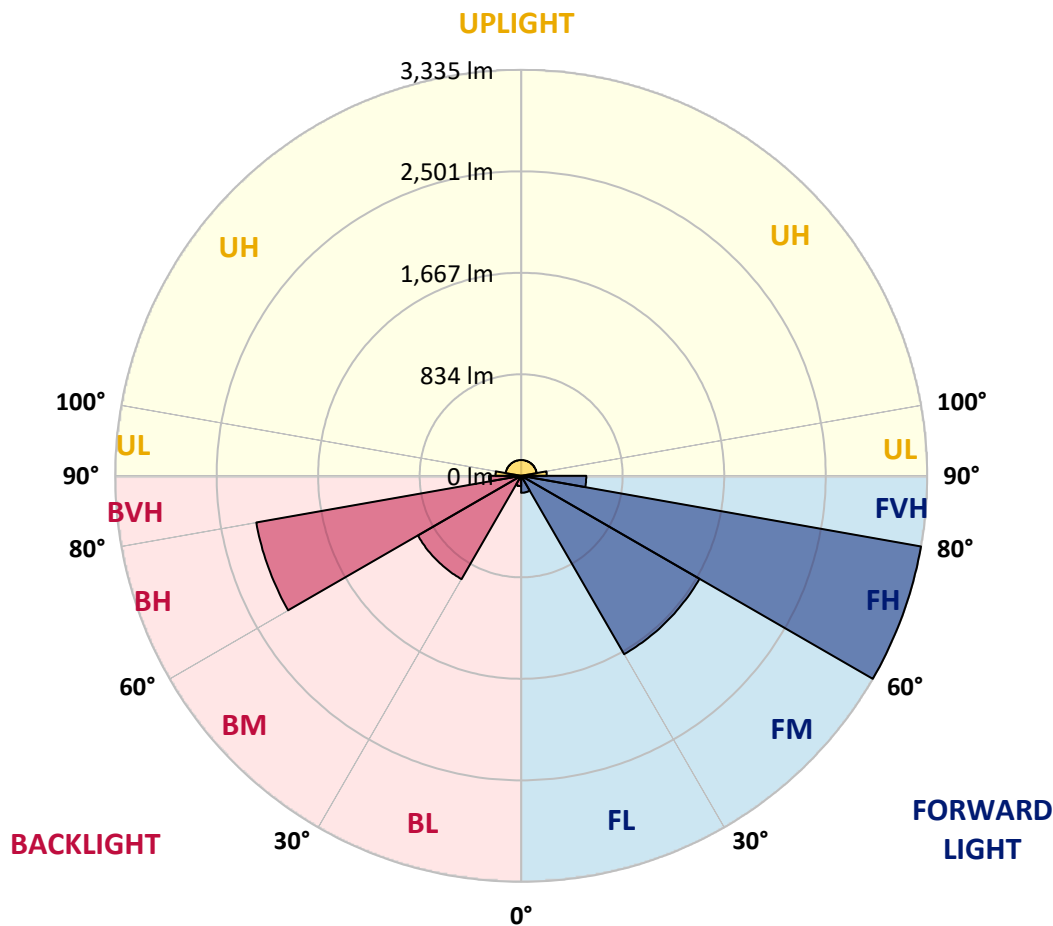
CATALOG NUMBER: ARC-CA6-100-740-U-33-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.1	1.5			
FM	(30°-60°)	1691.6	17.7			
FH	(60°-80°)	3334.5	34.9			G2/5000
FVH	(80°-90°)	534.5	5.6			G4/750
BL	(0°-30°)	85.0	0.9	B0/110		
BM	(30°-60°)	980.1	10.3	B1/1000		
BH	(60°-80°)	2208.8	23.1	B3/2500		G3/2500
BVH	(80°-90°)	264.4	2.8			G3/500
UL	(90°-100°)	210.5	2.2		U3/500	
UH	(100°-180°)	129.7	1.4		U3/500	

BUG Rating: B3-U3-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2
2.5°	122.3	122.3	122.3	120.5	118.6	116.8	115.0	115.0	113.2	111.3	109.5
5°	133.2	131.4	129.6	125.9	124.1	124.1	122.3	122.3	122.3	120.5	118.6
7.5°	147.8	147.8	146.0	144.2	142.4	140.5	138.7	136.9	136.9	135.1	133.2
10°	167.9	167.9	167.9	166.1	166.1	164.3	160.6	158.8	155.1	153.3	147.8
12.5°	188.0	189.8	186.2	186.2	186.2	184.3	180.7	178.9	175.2	171.6	164.3
15°	208.1	206.2	204.4	202.6	206.2	206.2	204.4	204.4	197.1	191.6	178.9
17.5°	226.3	226.3	228.1	228.1	233.6	231.8	231.8	230.0	226.3	217.2	200.8
20°	255.5	257.3	257.3	257.3	275.6	282.9	284.7	286.5	281.1	262.8	230.0
22.5°	284.7	286.5	299.3	295.7	295.7	295.7	313.9	304.8	281.1	259.2	240.9
25°	385.1	390.6	394.2	407.0	421.6	461.7	525.6	505.5	469.0	394.2	332.2
27.5°	481.8	489.1	554.8	646.1	658.9	611.4	657.0	596.8	578.6	501.9	450.8
30°	525.6	538.4	651.6	713.6	735.5	673.5	739.2	624.2	618.7	564.0	520.1
32.5°	536.6	545.7	669.8	677.1	682.6	675.3	773.8	633.3	620.5	565.8	501.9
35°	520.1	531.1	615.1	573.1	574.9	704.5	888.8	682.6	624.2	529.3	458.1
37.5°	640.6	640.6	711.8	722.7	770.2	927.1	1164.4	901.6	835.9	689.9	602.3
40°	730.0	739.2	852.3	894.3	901.6	1034.8	1458.2	1056.7	963.6	772.0	704.5
42.5°	850.5	848.7	952.7	981.9	1002.0	1051.2	1491.1	1215.5	1106.0	874.2	823.1
45°	870.6	899.8	994.7	961.8	987.4	1113.3	1556.8	1440.0	1294.0	1067.7	961.8
47.5°	790.3	830.4	1022.0	994.7	892.5	950.9	1248.4	1478.3	1317.7	1096.9	1022.0
50°	852.3	874.2	969.1	950.9	814.0	1011.1	1370.6	1852.5	1673.6	1304.9	1113.3
52.5°	1102.4	1149.8	1166.2	1237.4	1171.7	1513.0	1918.2	2347.1	2323.3	1889.0	1469.2
55°	1416.3	1485.6	1558.6	1828.7	1867.1	2376.3	2677.4	3135.5	3420.2	2987.7	2254.0
57.5°	1755.7	1854.3	1830.6	2223.0	2283.2	3219.4	3496.9	4570.0	5331.1	4743.4	3301.6
60°	2084.2	2149.9	2016.7	2361.7	2476.6	4053.5	4460.5	5951.6	6953.6	6327.6	4066.3
62.5°	2286.8	2328.8	2109.8	2456.6	2591.6	4343.7	5006.2	6106.7	7130.6	6654.3	4480.6
65°	2285.0	2274.1	2024.0	2325.2	2306.9	4009.7	4838.3	5132.1	6369.5	6289.2	4533.5
67.5°	2195.6	2199.2	1936.4	2175.5	2100.7	3535.2	4482.4	4341.9	5599.4	5707.0	4409.4
70°	2109.8	2153.6	1903.6	2111.6	2076.9	3400.1	4327.3	3907.5	5238.0	5442.4	4278.0
72.5°	1989.3	2031.3	1795.9	1978.4	1991.2	3130.0	4062.6	3411.1	4619.3	4865.7	3834.5
75°	1987.5	2040.4	1819.6	1980.2	2000.3	2976.7	4095.5	3239.5	4248.8	4579.1	3579.0
77.5°	1874.4	1921.8	1717.4	1867.1	1923.6	2693.8	3907.5	3026.0	3838.1	4208.6	3245.0
80°	1505.7	1569.6	1401.7	1500.2	1531.2	2020.4	3133.7	2478.5	3122.7	3493.2	2651.8
82.5°	1029.3	1087.7	976.4	1049.4	1089.6	1325.0	2166.4	1784.9	2122.6	2348.9	1660.8
85°	595.0	664.3	598.6	589.5	609.6	699.0	1166.2	949.0	987.4	1038.5	737.3
87.5°	374.1	385.1	352.2	354.1	357.7	383.3	531.1	423.4	467.2	529.3	447.1
90°	297.5	308.4	284.7	286.5	281.1	304.8	397.9	323.0	359.5	414.3	354.1
92.5°	257.3	264.6	248.2	251.9	248.2	266.5	332.2	266.5	295.7	339.5	290.2
95°	219.0	224.5	215.4	217.2	206.2	217.2	259.2	202.6	224.5	255.5	217.2
97.5°	175.2	180.7	175.2	175.2	164.3	169.7	198.9	157.0	171.6	191.6	164.3
100°	138.7	140.5	138.7	136.9	127.8	127.8	138.7	113.2	118.6	131.4	113.2
102.5°	105.9	107.7	105.9	104.0	93.1	87.6	87.6	73.0	76.7	80.3	71.2
105°	84.0	85.8	84.0	80.3	71.2	65.7	63.9	52.9	52.9	54.8	49.3
107.5°	69.4	69.4	69.4	65.7	60.2	52.9	47.5	38.3	38.3	40.2	38.3
110°	56.6	56.6	54.8	52.9	47.5	42.0	36.5	31.0	31.0	31.0	29.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	47.5	47.5	45.6	43.8	38.3	32.9	29.2	25.6	25.6	25.6	23.7
115°	40.2	40.2	38.3	36.5	32.9	27.4	23.7	20.1	20.1	20.1	20.1
117.5°	34.7	34.7	32.9	31.0	27.4	23.7	20.1	16.4	16.4	16.4	16.4
120°	31.0	29.2	27.4	25.6	21.9	20.1	16.4	14.6	14.6	14.6	12.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2
2.5°	109.5	109.5	107.7	107.7	107.7	105.9	105.9	107.7	107.7	107.7	107.7
5°	116.8	115.0	111.3	107.7	105.9	104.0	102.2	102.2	105.9	105.9	105.9
7.5°	131.4	129.6	124.1	120.5	116.8	113.2	111.3	109.5	111.3	113.2	113.2
10°	146.0	144.2	136.9	131.4	129.6	125.9	124.1	122.3	124.1	124.1	124.1
12.5°	160.6	157.0	151.5	144.2	140.5	138.7	136.9	135.1	135.1	135.1	135.1
15°	173.4	167.9	162.4	157.0	153.3	149.7	147.8	146.0	147.8	149.7	149.7
17.5°	193.5	188.0	175.2	166.1	164.3	160.6	158.8	158.8	160.6	162.4	162.4
20°	215.4	204.4	189.8	180.7	178.9	173.4	171.6	171.6	173.4	175.2	175.2
22.5°	233.6	226.3	204.4	191.6	189.8	188.0	189.8	189.8	191.6	193.5	193.5
25°	297.5	268.3	237.3	228.1	226.3	222.7	219.0	217.2	219.0	224.5	226.3
27.5°	401.5	348.6	290.2	270.1	270.1	273.8	281.1	284.7	277.4	273.8	275.6
30°	470.9	399.7	315.7	297.5	301.1	319.4	335.8	346.8	339.5	334.0	335.8
32.5°	452.6	386.9	326.7	323.0	334.0	348.6	357.7	363.2	377.8	383.3	390.6
35°	412.5	363.2	330.3	344.9	352.2	352.2	352.2	352.2	379.6	405.2	412.5
37.5°	503.7	419.8	392.4	397.9	392.4	386.9	392.4	407.0	430.7	450.8	456.3
40°	591.3	485.5	439.8	436.2	434.4	452.6	485.5	511.0	518.3	500.1	503.7
42.5°	688.1	549.3	490.9	496.4	511.0	540.2	576.7	576.7	576.7	560.3	565.8
45°	779.3	624.2	589.5	604.1	604.1	618.7	638.8	626.0	642.4	649.7	658.9
47.5°	887.0	724.6	647.9	635.1	637.0	666.2	673.5	668.0	678.9	666.2	666.2
50°	919.8	741.0	680.8	730.0	730.0	697.2	669.8	673.5	704.5	739.2	746.5
52.5°	1169.9	918.0	863.3	914.4	936.3	879.7	879.7	887.0	894.3	919.8	927.1
55°	1750.3	1308.6	1144.3	1263.0	1279.4	1314.1	1409.0	1394.4	1310.4	1268.4	1264.8
57.5°	2617.2	1941.9	1425.4	1593.3	1699.2	1841.5	1912.7	1870.7	1757.6	1719.2	1677.3
60°	3345.4	2659.1	1847.0	2139.0	2297.8	2321.5	2296.0	2299.6	2213.8	2241.2	2230.3
62.5°	3615.5	3263.2	2374.4	2551.5	2575.2	2502.2	2569.7	2724.8	2586.1	2504.0	2491.2
65°	3695.8	3487.7	2522.3	2407.3	2385.4	2372.6	2639.1	2898.2	2588.0	2396.3	2394.5
67.5°	3615.5	3257.8	2334.3	2144.5	2195.6	2299.6	2646.4	2743.1	2451.1	2239.4	2224.8
70°	3511.5	2887.3	2100.7	1936.4	2055.0	2206.5	2427.4	2389.0	2274.1	2086.1	2076.9
72.5°	3133.7	2502.2	1951.0	1814.1	1949.2	1993.0	2102.5	2086.1	2118.9	2000.3	1994.8
75°	2805.2	2297.8	1861.6	1701.0	1766.7	1759.4	1847.0	1867.1	1960.1	1909.0	1889.0
77.5°	2420.1	1998.5	1640.7	1454.6	1480.1	1478.3	1520.3	1533.1	1598.8	1602.4	1580.5
80°	1894.4	1565.9	1281.2	1095.0	1098.7	1065.8	1071.3	1069.5	1082.3	1096.9	1076.8
82.5°	1087.7	874.2	726.4	607.8	582.2	538.4	529.3	532.9	527.4	523.8	523.8
85°	532.9	414.3	381.4	341.3	326.7	315.7	321.2	332.2	337.6	326.7	321.2
87.5°	359.5	310.3	295.7	279.2	271.9	261.0	268.3	277.4	284.7	275.6	273.8
90°	284.7	246.4	242.7	239.1	233.6	224.5	231.8	242.7	248.2	240.9	237.3
92.5°	230.0	198.9	198.9	197.1	191.6	184.3	193.5	202.6	208.1	202.6	200.8
95°	177.0	153.3	158.8	155.1	149.7	147.8	153.3	160.6	164.3	160.6	160.6
97.5°	136.9	120.5	125.9	124.1	116.8	115.0	118.6	124.1	127.8	124.1	122.3
100°	93.1	85.8	93.1	93.1	85.8	82.1	85.8	91.3	93.1	93.1	91.3
102.5°	62.1	58.4	67.5	69.4	65.7	62.1	63.9	67.5	69.4	69.4	69.4
105°	43.8	43.8	52.9	54.8	51.1	47.5	51.1	52.9	52.9	52.9	52.9
107.5°	34.7	36.5	42.0	45.6	42.0	38.3	40.2	42.0	42.0	42.0	43.8
110°	29.2	29.2	34.7	38.3	34.7	32.9	32.9	32.9	32.9	34.7	38.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.7	25.6	29.2	31.0	29.2	27.4	27.4	27.4	27.4	29.2	34.7
115°	20.1	21.9	25.6	25.6	23.7	23.7	23.7	21.9	21.9	23.7	32.9
117.5°	16.4	18.3	20.1	20.1	20.1	18.3	18.3	18.3	18.3	21.9	34.7
120°	14.6	14.6	16.4	16.4	14.6	14.6	14.6	14.6	12.8	18.3	27.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)