

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: P588559

Luminaire Tested: **ARC-CA6-90-760-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588559
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-CA6-90-760-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8714 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 93.9
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



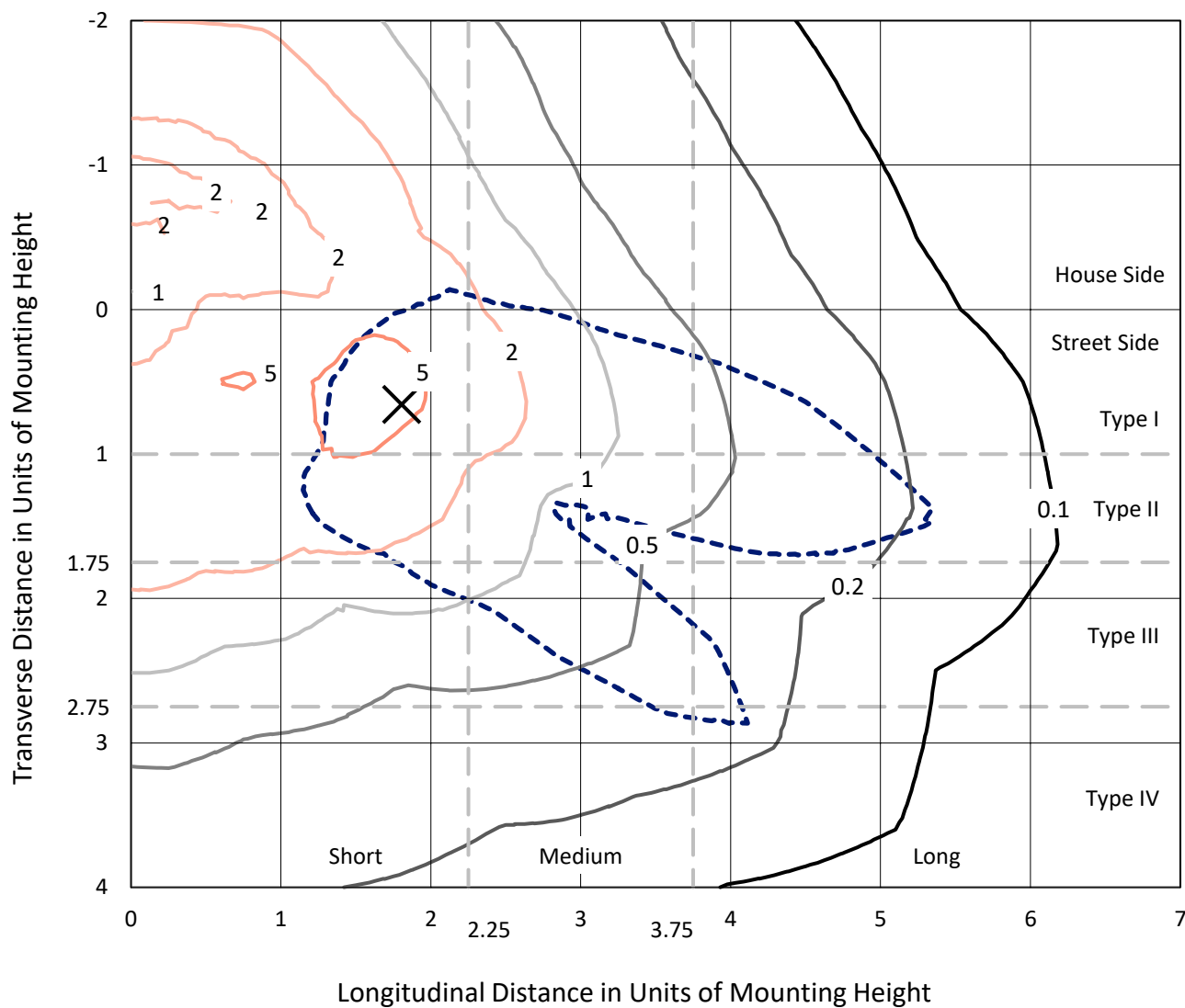
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

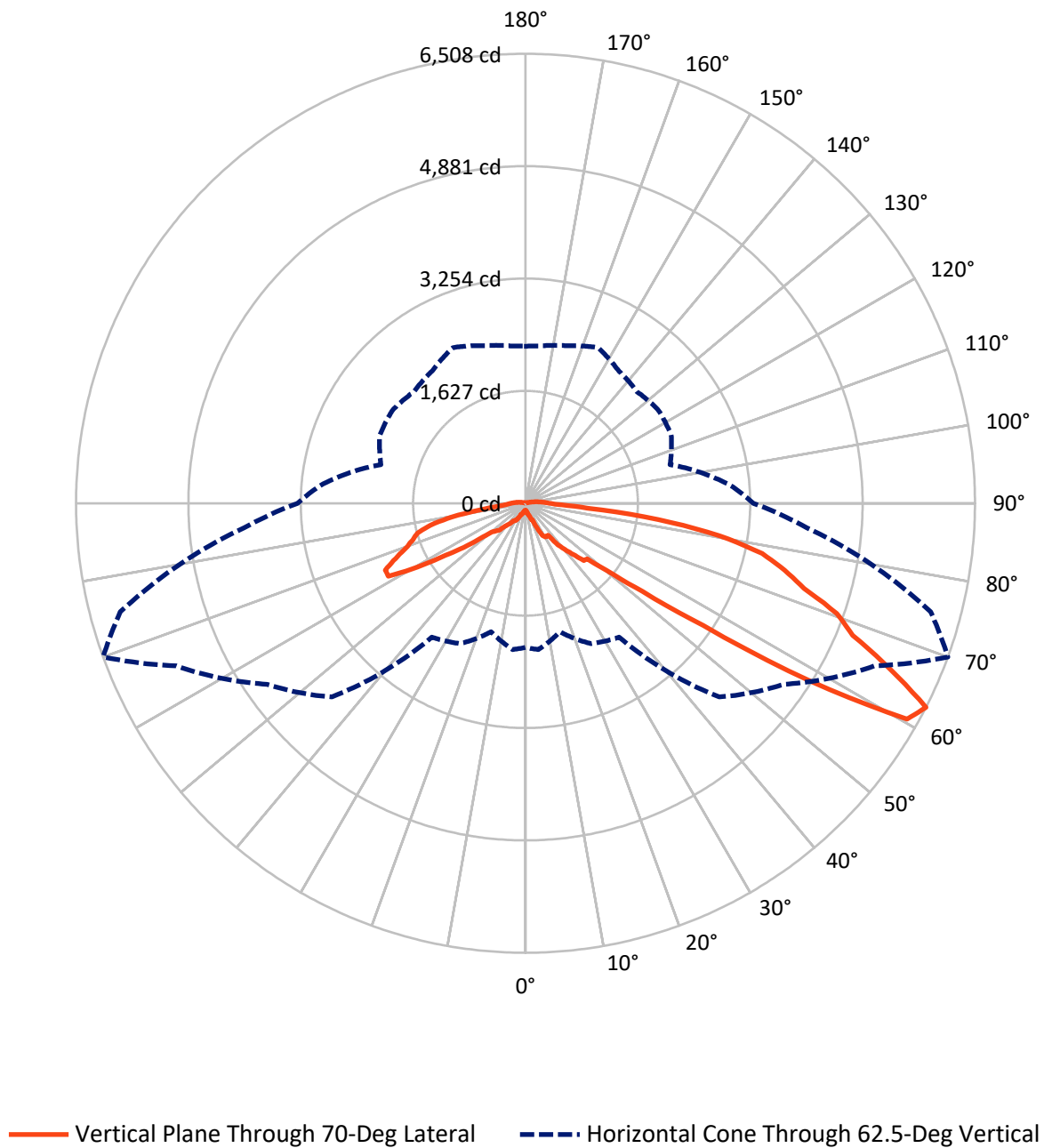


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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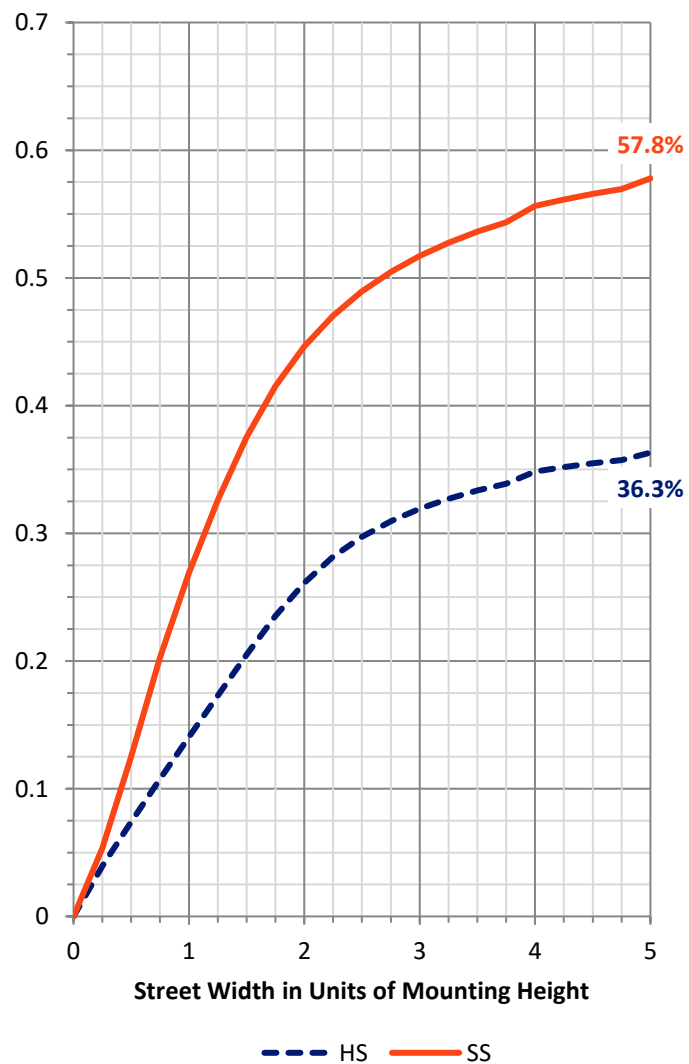
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3229.6	118.4	3348.0
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5203.3	162.7	5366.0
	% Fixture	59.7	1.9	61.6
Total	Lumens	8432.9	281.1	8714.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.1
10°-20°	47.4	0.5
20°-30°	147.0	1.7
30°-40°	315.3	3.6
40°-50°	590.6	6.8
50°-60°	1532.7	17.6
60°-70°	2807.6	32.2
70°-80°	2252.0	25.8
80°-90°	729.2	8.4
90°-100°	192.1	2.2
100°-110°	62.5	0.7
110°-120°	24.5	0.3
120°-130°	1.9	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°	8432.9	96.8
0°-180°	8714.0	100.0

Coefficient of Utilization



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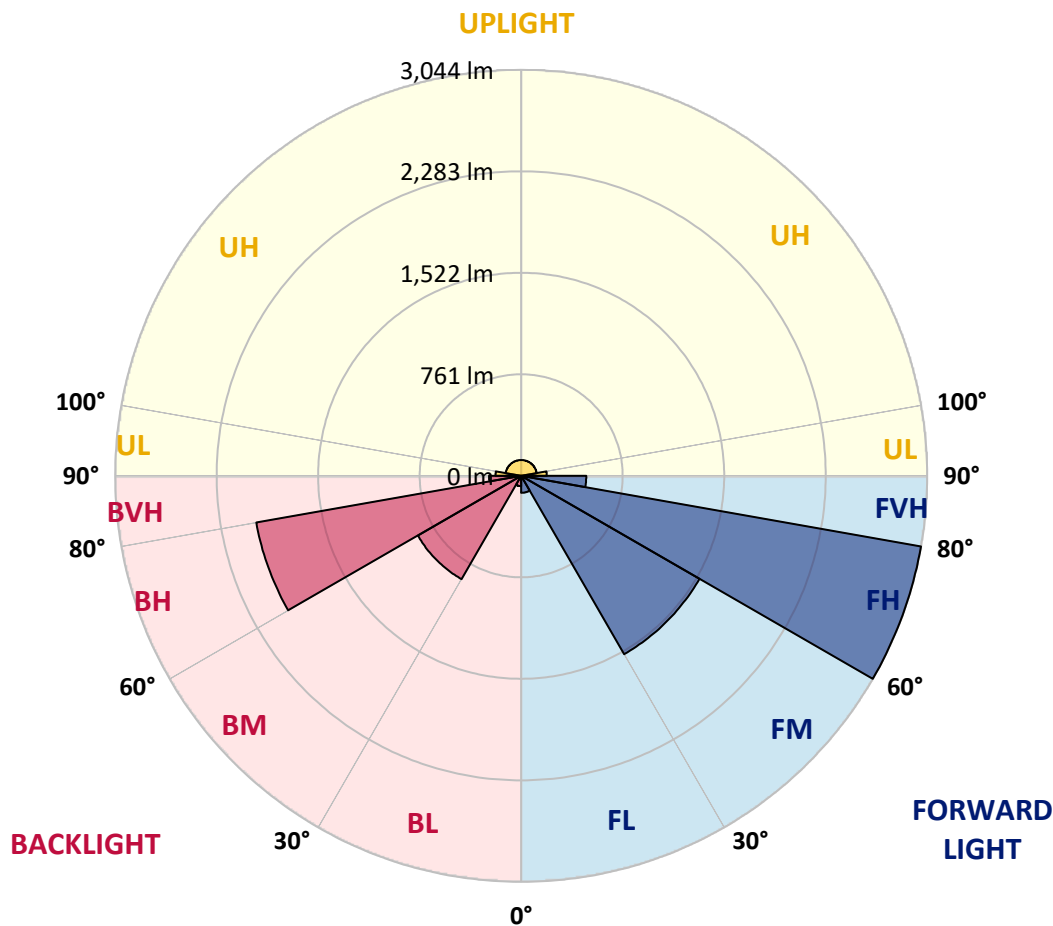
CATALOG NUMBER: ARC-CA6-90-760-U-33-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	127.9	1.5			
FM	(30°-60°)	1544.0	17.7			
FH	(60°-80°)	3043.6	34.9			G2/5000
FVH	(80°-90°)	487.9	5.6			G3/500
BL	(0°-30°)	77.6	0.9	B0/110		
BM	(30°-60°)	894.6	10.3	B1/1000		
BH	(60°-80°)	2016.1	23.1	B3/2500		G3/2500
BVH	(80°-90°)	241.4	2.8			G3/500
UL	(90°-100°)	192.1	2.2		U3/500	
UH	(100°-180°)	118.4	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
2.5°	111.6	111.6	111.6	109.9	108.3	106.6	104.9	104.9	103.3	101.6	100.0
5°	121.6	119.9	118.3	114.9	113.3	113.3	111.6	111.6	111.6	109.9	108.3
7.5°	134.9	134.9	133.3	131.6	129.9	128.3	126.6	124.9	124.9	123.3	121.6
10°	153.3	153.3	153.3	151.6	151.6	149.9	146.6	144.9	141.6	139.9	134.9
12.5°	171.6	173.2	169.9	169.9	169.9	168.2	164.9	163.3	159.9	156.6	149.9
15°	189.9	188.2	186.6	184.9	188.2	188.2	186.6	186.6	179.9	174.9	163.3
17.5°	206.6	206.6	208.2	208.2	213.2	211.6	211.6	209.9	206.6	198.2	183.2
20°	233.2	234.9	234.9	234.9	251.5	258.2	259.9	261.5	256.5	239.9	209.9
22.5°	259.9	261.5	273.2	269.9	269.9	269.9	286.5	278.2	256.5	236.5	219.9
25°	351.5	356.5	359.8	371.5	384.8	421.5	479.8	461.4	428.1	359.8	303.2
27.5°	439.8	446.4	506.4	589.7	601.4	558.1	599.7	544.7	528.1	458.1	411.5
30°	479.8	491.4	594.7	651.3	671.3	614.7	674.7	569.7	564.7	514.7	474.8
32.5°	489.8	498.1	611.4	618.0	623.0	616.4	706.3	578.0	566.4	516.4	458.1
35°	474.8	484.8	561.4	523.1	524.7	643.0	811.3	623.0	569.7	483.1	418.1
37.5°	584.7	584.7	649.7	659.7	703.0	846.2	1062.8	822.9	763.0	629.7	549.7
40°	666.3	674.7	777.9	816.3	822.9	944.5	1331.0	964.5	879.6	704.7	643.0
42.5°	776.3	774.6	869.6	896.2	914.5	959.5	1361.0	1109.4	1009.5	797.9	751.3
45°	794.6	821.3	907.9	877.9	901.2	1016.2	1421.0	1314.3	1181.1	974.5	877.9
47.5°	721.3	758.0	932.9	907.9	814.6	867.9	1139.4	1349.3	1202.7	1001.2	932.9
50°	777.9	797.9	884.6	867.9	743.0	922.9	1251.0	1690.8	1527.6	1191.1	1016.2
52.5°	1006.2	1049.5	1064.5	1129.4	1069.5	1381.0	1750.8	2142.3	2120.6	1724.1	1341.0
55°	1292.7	1356.0	1422.6	1669.2	1704.2	2168.9	2443.8	2861.9	3121.8	2727.0	2057.3
57.5°	1602.5	1692.5	1670.8	2029.0	2084.0	2938.5	3191.7	4171.3	4865.9	4329.5	3013.5
60°	1902.4	1962.4	1840.8	2155.6	2260.5	3699.8	4071.3	5432.3	6346.8	5775.5	3711.5
62.5°	2087.3	2125.6	1925.7	2242.2	2365.5	3964.7	4569.4	5573.9	6508.4	6073.7	4089.6
65°	2085.6	2075.6	1847.4	2122.3	2105.6	3659.9	4416.1	4684.3	5813.8	5740.5	4137.9
67.5°	2004.0	2007.3	1767.5	1985.7	1917.4	3226.7	4091.3	3963.0	5110.8	5209.1	4024.7
70°	1925.7	1965.7	1737.5	1927.4	1895.7	3103.5	3949.7	3566.6	4781.0	4967.5	3904.7
72.5°	1815.8	1854.1	1639.2	1805.8	1817.4	2856.9	3708.2	3113.5	4216.2	4441.1	3499.9
75°	1814.1	1862.4	1660.8	1807.4	1825.8	2717.0	3738.1	2956.9	3878.1	4179.6	3266.7
77.5°	1710.8	1754.1	1567.6	1704.2	1755.8	2458.8	3566.6	2762.0	3503.3	3841.4	2961.9
80°	1374.3	1432.6	1279.4	1369.3	1397.6	1844.1	2860.2	2262.2	2850.3	3188.4	2420.5
82.5°	939.5	992.8	891.2	957.9	994.5	1209.4	1977.4	1629.2	1937.4	2143.9	1515.9
85°	543.1	606.4	546.4	538.1	556.4	638.0	1064.5	866.2	901.2	947.9	673.0
87.5°	341.5	351.5	321.5	323.2	326.5	349.8	484.8	386.5	426.5	483.1	408.1
90°	271.5	281.5	259.9	261.5	256.5	278.2	363.2	294.9	328.2	378.1	323.2
92.5°	234.9	241.5	226.6	229.9	226.6	243.2	303.2	243.2	269.9	309.8	264.9
95°	199.9	204.9	196.6	198.2	188.2	198.2	236.5	184.9	204.9	233.2	198.2
97.5°	159.9	164.9	159.9	159.9	149.9	154.9	181.6	143.3	156.6	174.9	149.9
100°	126.6	128.3	126.6	124.9	116.6	116.6	126.6	103.3	108.3	119.9	103.3
102.5°	96.6	98.3	96.6	95.0	85.0	80.0	80.0	66.6	70.0	73.3	65.0
105°	76.6	78.3	76.6	73.3	65.0	60.0	58.3	48.3	48.3	50.0	45.0
107.5°	63.3	63.3	63.3	60.0	55.0	48.3	43.3	35.0	35.0	36.6	35.0
110°	51.6	51.6	50.0	48.3	43.3	38.3	33.3	28.3	28.3	28.3	26.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	43.3	43.3	41.6	40.0	35.0	30.0	26.7	23.3	23.3	23.3	21.7
115°	36.6	36.6	35.0	33.3	30.0	25.0	21.7	18.3	18.3	18.3	18.3
117.5°	31.7	31.7	30.0	28.3	25.0	21.7	18.3	15.0	15.0	15.0	15.0
120°	28.3	26.7	25.0	23.3	20.0	18.3	15.0	13.3	13.3	13.3	11.7
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°	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
2.5°	100.0	100.0	98.3	98.3	98.3	96.6	96.6	98.3	98.3	98.3	98.3
5°	106.6	104.9	101.6	98.3	96.6	95.0	93.3	93.3	96.6	96.6	96.6
7.5°	119.9	118.3	113.3	109.9	106.6	103.3	101.6	100.0	101.6	103.3	103.3
10°	133.3	131.6	124.9	119.9	118.3	114.9	113.3	111.6	113.3	113.3	113.3
12.5°	146.6	143.3	138.3	131.6	128.3	126.6	124.9	123.3	123.3	123.3	123.3
15°	158.3	153.3	148.3	143.3	139.9	136.6	134.9	133.3	134.9	136.6	136.6
17.5°	176.6	171.6	159.9	151.6	149.9	146.6	144.9	144.9	146.6	148.3	148.3
20°	196.6	186.6	173.2	164.9	163.3	158.3	156.6	156.6	158.3	159.9	159.9
22.5°	213.2	206.6	186.6	174.9	173.2	171.6	173.2	173.2	174.9	176.6	176.6
25°	271.5	244.9	216.6	208.2	206.6	203.2	199.9	198.2	199.9	204.9	206.6
27.5°	366.5	318.2	264.9	246.5	246.5	249.9	256.5	259.9	253.2	249.9	251.5
30°	429.8	364.8	288.2	271.5	274.9	291.5	306.5	316.5	309.8	304.8	306.5
32.5°	413.1	353.2	298.2	294.9	304.8	318.2	326.5	331.5	344.8	349.8	356.5
35°	376.5	331.5	301.5	314.8	321.5	321.5	321.5	321.5	346.5	369.8	376.5
37.5°	459.8	383.1	358.2	363.2	358.2	353.2	358.2	371.5	393.1	411.5	416.5
40°	539.7	443.1	401.5	398.1	396.5	413.1	443.1	466.4	473.1	456.4	459.8
42.5°	628.0	501.4	448.1	453.1	466.4	493.1	526.4	526.4	526.4	511.4	516.4
45°	711.3	569.7	538.1	551.4	551.4	564.7	583.0	571.4	586.4	593.0	601.4
47.5°	809.6	661.3	591.4	579.7	581.4	608.0	614.7	609.7	619.7	608.0	608.0
50°	839.6	676.3	621.4	666.3	666.3	636.4	611.4	614.7	643.0	674.7	681.3
52.5°	1067.8	837.9	787.9	834.6	854.6	802.9	802.9	809.6	816.3	839.6	846.2
55°	1597.5	1194.4	1044.5	1152.8	1167.8	1199.4	1286.0	1272.7	1196.1	1157.8	1154.4
57.5°	2388.8	1772.5	1301.0	1454.3	1550.9	1680.8	1745.8	1707.5	1604.2	1569.2	1530.9
60°	3053.5	2427.1	1685.8	1952.4	2097.3	2118.9	2095.6	2099.0	2020.7	2045.7	2035.7
62.5°	3300.0	2978.5	2167.3	2328.8	2350.5	2283.9	2345.5	2487.1	2360.5	2285.5	2273.9
65°	3373.3	3183.4	2302.2	2197.2	2177.3	2165.6	2408.8	2645.4	2362.2	2187.2	2185.6
67.5°	3300.0	2973.5	2130.6	1957.4	2004.0	2099.0	2415.5	2503.8	2237.2	2044.0	2030.7
70°	3205.1	2635.4	1917.4	1767.5	1875.7	2014.0	2215.6	2180.6	2075.6	1904.1	1895.7
72.5°	2860.2	2283.9	1780.8	1655.8	1779.1	1819.1	1919.0	1904.1	1934.0	1825.8	1820.8
75°	2560.4	2097.3	1699.2	1552.6	1612.5	1605.9	1685.8	1704.2	1789.1	1742.5	1724.1
77.5°	2208.9	1824.1	1497.6	1327.7	1351.0	1349.3	1387.6	1399.3	1459.3	1462.6	1442.6
80°	1729.1	1429.3	1169.4	999.5	1002.8	972.9	977.8	976.2	987.8	1001.2	982.8
82.5°	992.8	797.9	663.0	554.7	531.4	491.4	483.1	486.4	481.4	478.1	478.1
85°	486.4	378.1	348.2	311.5	298.2	288.2	293.2	303.2	308.2	298.2	293.2
87.5°	328.2	283.2	269.9	254.9	248.2	238.2	244.9	253.2	259.9	251.5	249.9
90°	259.9	224.9	221.6	218.2	213.2	204.9	211.6	221.6	226.6	219.9	216.6
92.5°	209.9	181.6	181.6	179.9	174.9	168.2	176.6	184.9	189.9	184.9	183.2
95°	161.6	139.9	144.9	141.6	136.6	134.9	139.9	146.6	149.9	146.6	146.6
97.5°	124.9	109.9	114.9	113.3	106.6	104.9	108.3	113.3	116.6	113.3	111.6
100°	85.0	78.3	85.0	85.0	78.3	75.0	78.3	83.3	85.0	85.0	83.3
102.5°	56.6	53.3	61.6	63.3	60.0	56.6	58.3	61.6	63.3	63.3	63.3
105°	40.0	40.0	48.3	50.0	46.6	43.3	46.6	48.3	48.3	48.3	48.3
107.5°	31.7	33.3	38.3	41.6	38.3	35.0	36.6	38.3	38.3	38.3	40.0
110°	26.7	26.7	31.7	35.0	31.7	30.0	30.0	30.0	30.0	31.7	35.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	21.7	23.3	26.7	28.3	26.7	25.0	25.0	25.0	25.0	26.7	31.7
115°	18.3	20.0	23.3	23.3	21.7	21.7	21.7	20.0	20.0	21.7	30.0
117.5°	15.0	16.7	18.3	18.3	18.3	16.7	16.7	16.7	16.7	20.0	31.7
120°	13.3	13.3	15.0	15.0	13.3	13.3	13.3	13.3	11.7	16.7	25.0
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)