

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: P266106

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T4W-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-50-D-U-T4W-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4648.3 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U3 - G3

Input Watts (W): 54  
Input Voltage (V): NR  
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: 28.75 FT

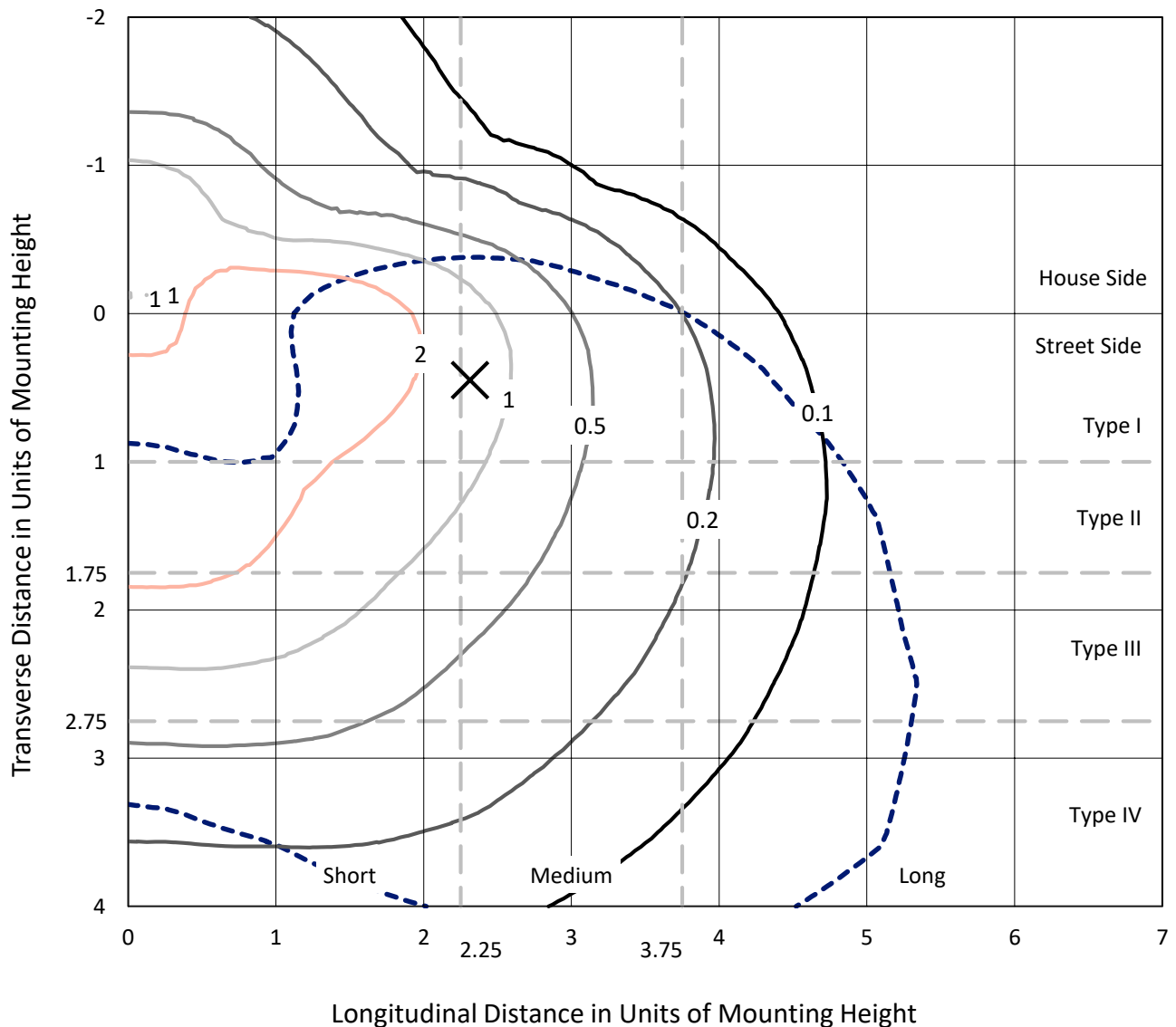


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

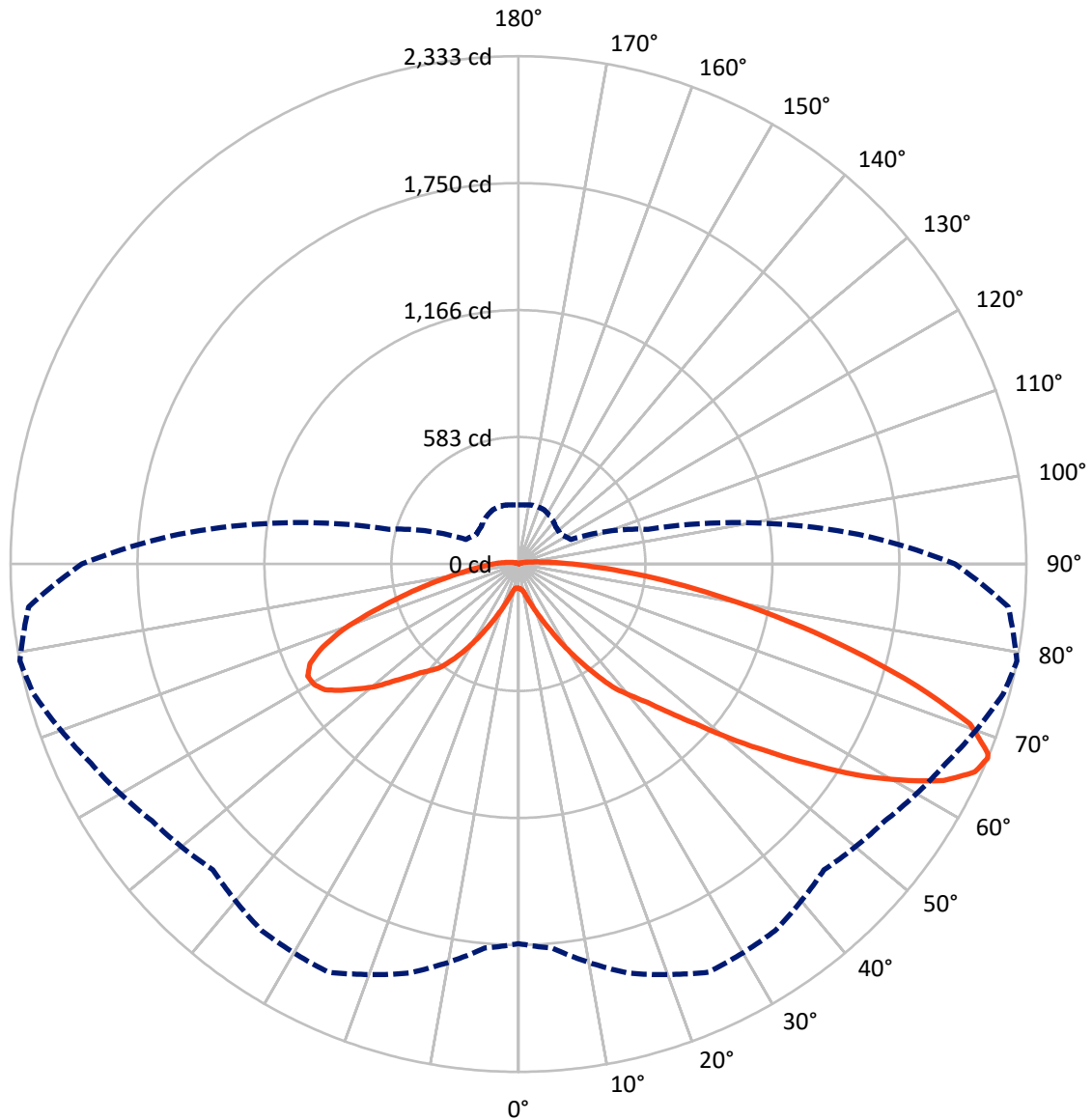


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical



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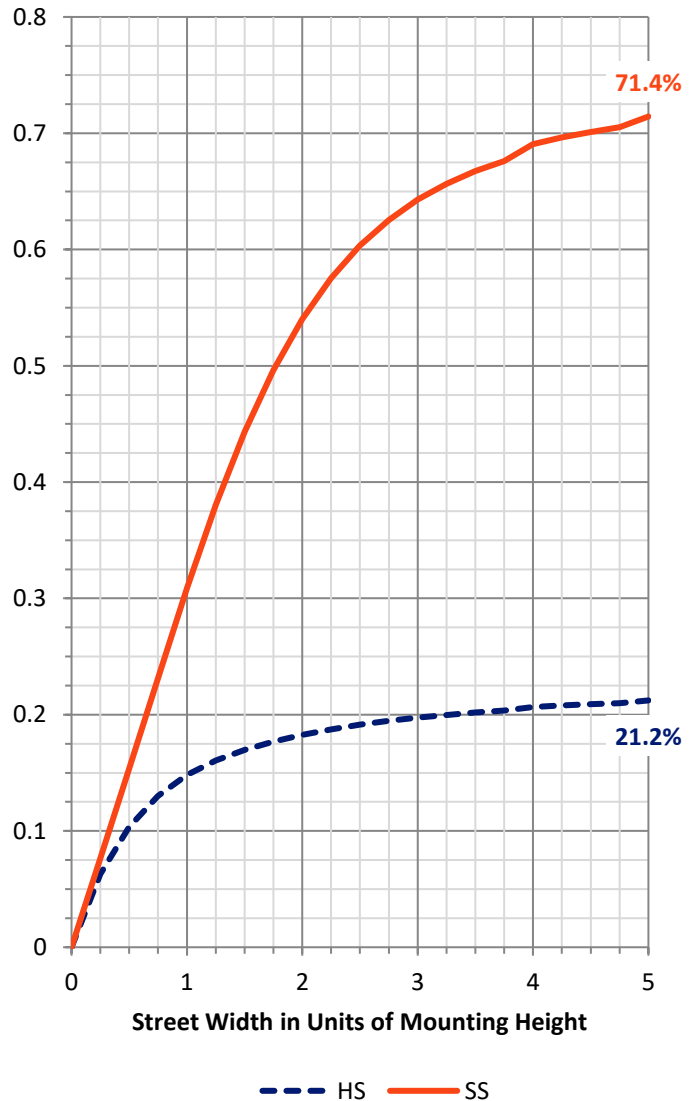
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1036.6	69.9	1106.5
	% Fixture	22.3	1.5	23.8
<b>Street Side</b>	Lumens	3444.8	96.9	3541.7
	% Fixture	74.1	2.1	76.2
<b>Total</b>	Lumens	4481.4	166.8	4648.3
	% Fixture	96.4	3.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.3	0.2
10°-20°	47.8	1.0
20°-30°	137.8	3.0
30°-40°	312.5	6.7
40°-50°	542.9	11.7
50°-60°	869.8	18.7
60°-70°	1212.1	26.1
70°-80°	957.4	20.6
80°-90°	389.9	8.4
90°-100°	111.2	2.4
100°-110°	33.1	0.7
110°-120°	12.8	0.3
120°-130°	6.2	0.1
130°-140°	2.8	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4481.4	96.4
0°-180°	4648.3	100.0

**Coefficient of Utilization**



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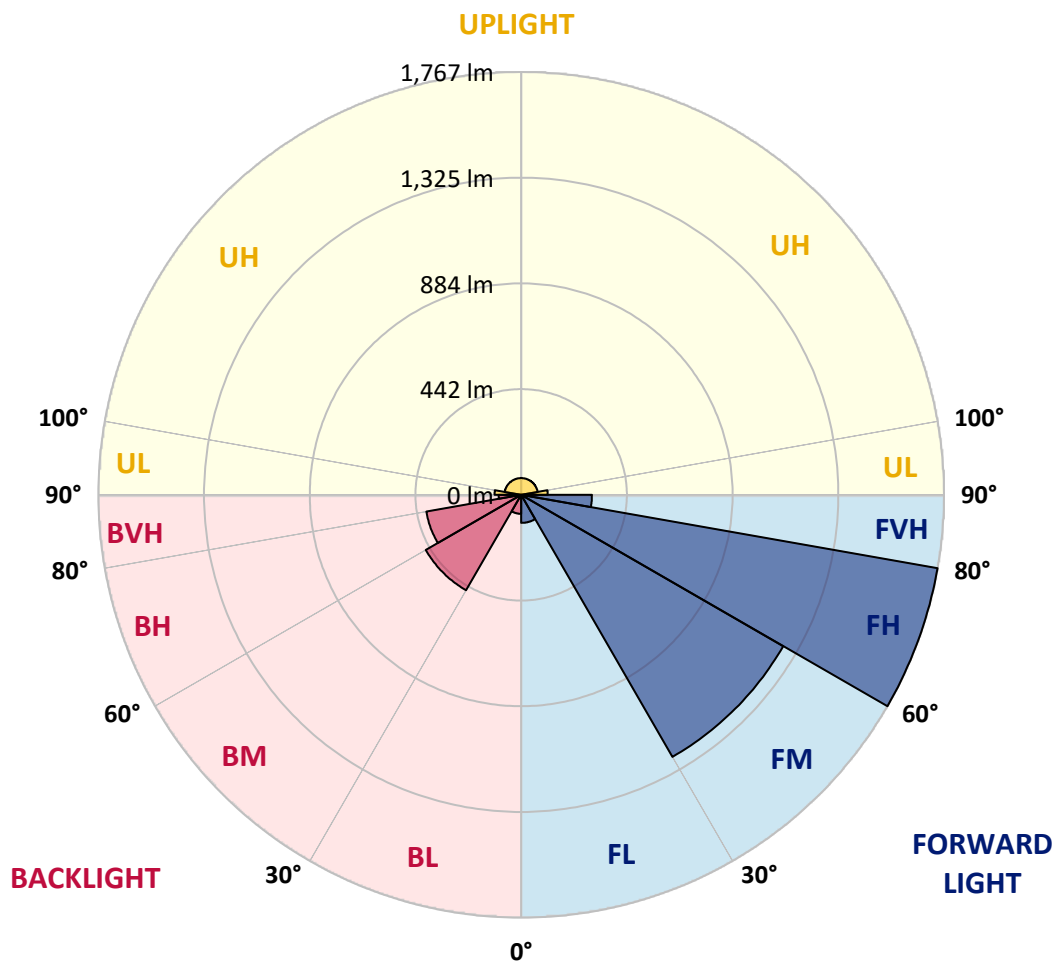
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.4	2.5			
FM (30°-60°)	1264.6	27.2			
FH (60°-80°)	1767.0	38.0			G1/1800
FVH (80°-90°)	295.8	6.4			G3/500
BL (0°-30°)	79.5	1.7	B0/110		
BM (30°-60°)	460.5	9.9	B1/1000		
BH (60°-80°)	402.5	8.7	B1/500		G1/500
BVH (80°-90°)	94.1	2.0			G1/100
UL (90°-100°)	111.2	2.4		U3/500	
UH (100°-180°)	69.9	1.5		U3/500	

**BUG Rating: B1-U3-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7
2.5°	119.1	119.1	119.7	119.7	119.7	118.5	116.9	115.3	114.1	113.5	112.4
5°	128.1	127.6	128.1	127.6	127.6	125.4	122.4	119.7	117.4	116.3	114.7
7.5°	141.0	141.0	140.4	139.3	138.2	134.2	129.7	126.4	123.1	120.8	119.1
10°	157.4	157.9	156.8	154.0	151.2	146.1	141.0	136.5	131.5	128.6	126.4
12.5°	182.6	182.6	180.4	174.2	167.4	161.2	155.6	151.2	148.8	146.1	143.9
15°	214.1	213.4	210.2	200.6	191.6	180.9	177.0	174.2	172.5	170.3	167.4
17.5°	251.2	250.5	244.3	231.6	217.4	209.6	203.3	200.6	201.7	199.5	197.2
20°	295.5	294.5	284.9	266.8	252.9	242.2	235.4	232.7	236.0	234.3	232.7
22.5°	352.2	349.5	336.0	310.2	293.8	276.5	270.3	269.1	276.9	276.9	276.9
25°	419.7	417.0	396.7	366.9	338.2	316.9	310.8	316.9	329.8	331.6	334.9
27.5°	497.8	494.4	469.8	428.1	390.0	361.3	356.2	368.6	388.7	396.7	400.0
30°	589.9	587.8	552.3	499.5	445.6	409.5	404.0	426.4	458.0	470.4	478.6
32.5°	699.1	696.1	645.1	582.6	507.4	462.4	458.0	492.2	539.4	551.2	568.1
35°	833.7	831.0	763.6	676.6	576.5	518.6	518.6	563.0	620.9	637.2	658.0
37.5°	969.2	968.6	900.7	784.4	652.9	580.5	581.6	632.6	702.4	727.5	746.8
40°	1101.2	1102.4	1024.8	891.7	738.2	648.3	647.9	699.5	772.1	793.9	812.4
42.5°	1221.4	1220.9	1147.9	1005.7	827.1	722.0	711.8	762.4	839.5	869.2	894.0
45°	1305.1	1311.3	1255.2	1108.6	916.5	798.5	777.7	833.7	932.1	973.1	1006.3
47.5°	1409.1	1409.7	1358.1	1205.2	1008.0	877.6	858.5	929.3	1054.2	1096.8	1131.7
50°	1523.7	1529.5	1488.4	1326.5	1111.4	966.9	959.7	1049.0	1197.4	1257.4	1300.7
52.5°	1621.5	1628.3	1603.0	1465.3	1236.1	1081.6	1081.6	1195.0	1354.0	1426.0	1468.2
55°	1693.5	1704.8	1710.9	1598.5	1377.1	1215.9	1228.3	1355.8	1532.1	1618.1	1669.3
57.5°	1750.7	1766.4	1795.7	1717.1	1515.9	1377.1	1395.1	1531.6	1746.2	1826.7	1880.6
60°	1835.6	1853.7	1906.5	1844.0	1675.5	1550.7	1574.9	1723.8	1942.9	2015.3	2056.4
62.5°	1844.0	1866.0	1972.7	1981.8	1824.9	1720.4	1773.9	1919.9	2129.0	2191.9	2200.8
65°	1805.2	1833.9	1975.6	2057.6	1983.9	1879.4	1954.7	2089.0	2262.1	2303.7	2280.5
67°	1743.5	1771.0	1945.2	2068.7	2056.0	1985.7	2056.0	2166.5	2305.3	2332.9	2258.7
67.5°	1717.1	1743.5	1928.3	2066.6	2064.8	2004.2	2072.2	2183.4	2307.6	2326.2	2242.3
70°	1547.9	1584.5	1782.2	1994.6	2060.9	2021.0	2100.9	2177.9	2208.2	2201.3	2081.2
72.5°	1250.7	1284.9	1500.8	1798.0	1949.7	1929.5	2000.3	2014.3	1960.9	1914.8	1750.7
75°	917.4	932.7	1131.7	1451.3	1700.2	1723.3	1776.6	1745.1	1647.4	1586.1	1419.3
77.5°	637.2	652.3	805.2	1098.9	1371.0	1457.0	1509.7	1463.7	1360.8	1267.0	1085.0
80°	421.9	429.7	549.6	800.7	1075.5	1195.0	1240.6	1193.4	1063.1	970.9	798.5
82.5°	257.4	272.5	359.1	561.4	831.7	978.8	1011.9	957.5	816.4	720.9	575.4
85°	154.5	162.4	229.7	379.3	611.8	776.6	807.9	737.1	594.5	508.5	385.5
87.5°	95.5	99.0	144.4	245.5	429.3	579.9	613.5	529.8	401.2	338.8	258.0
90°	61.9	64.6	95.0	161.9	283.8	413.0	428.1	360.7	266.8	225.8	174.7
92.5°	41.6	43.8	64.6	107.3	186.6	270.7	282.1	238.2	176.4	150.6	119.1
95°	29.3	30.9	45.5	73.0	121.5	166.8	178.7	154.5	115.3	99.4	82.0
97.5°	22.5	23.5	34.2	52.8	82.0	107.8	112.4	100.6	78.2	68.5	59.6
100°	18.0	19.1	26.9	39.9	59.0	73.7	76.4	69.1	55.1	49.4	43.8
102.5°	15.7	15.7	21.9	31.5	44.3	54.4	55.1	49.4	40.5	36.6	33.6
105°	13.5	13.5	18.0	25.3	35.5	42.1	42.1	36.6	29.7	26.9	25.8
107.5°	11.1	11.8	15.2	20.2	28.0	33.6	32.6	26.9	21.4	19.7	19.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	9.5	10.2	12.9	16.9	23.0	27.6	25.8	20.8	15.7	14.6	14.6
112.5°	8.4	9.1	10.7	14.6	19.7	23.0	20.8	15.7	11.8	11.1	11.8
115°	7.8	7.8	9.5	12.9	16.9	19.1	17.3	12.9	9.5	9.1	9.5
117.5°	6.7	7.2	8.4	11.1	15.2	16.3	14.6	10.2	7.2	7.2	8.4
120°	6.7	6.7	7.8	10.2	13.5	14.6	12.3	8.4	6.2	6.2	7.2
122.5°	6.2	6.2	7.2	9.5	11.8	12.9	10.7	7.2	5.6	5.6	6.2
125°	6.2	6.2	7.2	9.1	10.7	10.7	9.1	6.2	5.1	5.1	5.6
127.5°	6.7	6.7	7.2	8.4	9.5	9.5	7.8	5.6	4.5	4.5	5.1
130°	6.7	6.7	6.7	7.8	8.4	7.8	6.7	5.1	4.5	4.5	5.1
132.5°	6.7	6.7	6.7	6.7	7.2	6.7	5.6	4.0	4.0	4.0	4.5
135°	6.2	6.2	5.6	6.2	6.2	5.1	4.0	2.9	3.4	3.4	4.0
137.5°	5.1	5.1	5.1	5.1	4.5	4.0	2.9	2.2	2.9	3.4	3.4
140°	4.5	4.5	4.0	4.0	3.4	2.9	1.6	2.2	2.9	2.9	2.9
142.5°	3.4	3.4	3.4	2.9	2.2	1.6	1.1	1.6	2.2	2.2	2.9
145°	2.2	2.2	2.2	1.6	1.1	0.5	1.1	1.1	1.6	2.2	2.2
147.5°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.1	1.6	1.6	1.6
150°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	1.1	1.6	1.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1	1.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
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°	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7
2.5°	111.7	111.2	109.6	108.4	107.3	106.8	106.2	106.2	105.6	105.1	105.1
5°	113.5	112.4	109.6	107.3	105.6	104.6	103.3	102.9	101.7	101.1	101.1
7.5°	116.9	115.3	111.7	107.8	105.1	103.3	102.2	101.1	100.0	100.0	100.0
10°	123.5	121.5	116.3	111.2	106.8	104.6	103.3	102.2	102.2	101.7	101.7
12.5°	140.4	137.1	128.6	119.7	111.7	108.4	107.3	110.1	113.5	114.1	115.7
15°	163.5	160.2	149.5	136.5	123.5	116.3	120.3	125.4	131.0	135.5	135.5
17.5°	192.1	188.3	173.6	155.6	139.9	135.5	136.5	143.9	151.8	155.6	156.1
20°	227.5	221.9	201.7	177.0	159.5	152.8	154.5	161.9	173.1	178.7	179.8
22.5°	271.9	263.6	236.6	201.7	180.4	171.3	173.1	182.0	197.2	205.2	207.9
25°	328.2	317.5	276.5	231.6	201.1	187.7	192.7	206.8	225.8	237.7	237.2
27.5°	392.7	375.9	324.7	262.3	221.9	203.3	211.2	231.0	254.0	267.4	269.1
30°	470.4	448.3	377.6	295.0	239.8	217.4	227.5	252.2	278.1	296.1	297.8
32.5°	556.2	530.4	431.5	327.5	254.5	228.1	239.4	270.3	300.0	321.5	322.0
35°	644.4	611.2	482.7	355.6	266.8	236.6	248.3	283.8	318.5	343.3	344.9
37.5°	728.7	690.0	529.8	374.2	274.7	241.0	253.4	295.0	334.3	360.7	362.3
40°	792.2	744.4	559.0	380.4	276.5	243.4	258.0	299.4	334.3	354.6	355.6
42.5°	872.1	809.2	580.5	374.2	271.9	243.4	259.6	293.8	320.9	334.3	334.3
45°	978.8	901.2	613.1	366.9	262.9	241.6	255.1	281.4	299.4	306.2	306.2
47.5°	1106.4	1005.2	646.2	361.8	256.1	237.7	248.3	266.3	275.9	276.5	275.3
50°	1267.6	1136.6	687.2	354.6	252.2	233.6	242.2	254.0	259.6	257.4	256.1
52.5°	1421.5	1253.6	716.4	345.6	250.0	232.0	238.8	248.9	250.5	243.9	242.2
55°	1605.2	1390.7	736.6	330.9	247.8	233.2	238.8	247.3	246.0	237.2	235.4
57.5°	1788.4	1519.4	754.5	318.0	245.5	234.8	241.0	248.3	246.0	237.7	236.0
60°	1928.9	1607.4	744.4	304.5	243.4	237.7	245.0	252.2	252.2	245.5	245.0
62.5°	2039.1	1660.2	720.4	290.5	241.6	239.8	250.0	260.7	262.9	258.0	257.4
65°	2063.8	1639.0	673.6	276.9	239.4	241.6	256.7	270.3	271.9	266.8	266.3
67°	2005.8	1565.9	616.3	265.8	236.0	242.2	261.2	275.9	278.1	273.1	271.4
67.5°	1980.7	1537.3	601.8	262.9	234.8	242.2	261.9	276.5	279.3	274.3	272.5
70°	1786.6	1367.0	523.6	247.3	227.5	239.4	262.9	280.5	282.1	275.9	273.7
72.5°	1480.5	1102.4	433.3	232.0	218.6	232.0	259.0	277.5	276.9	268.1	266.3
75°	1173.7	864.2	348.9	214.7	206.3	220.9	248.3	264.6	261.2	250.5	248.3
77.5°	891.7	646.2	283.8	197.2	192.1	206.3	230.3	242.2	235.4	225.4	223.0
80°	635.6	465.2	231.0	180.9	177.0	189.4	207.9	214.1	209.6	200.1	197.2
82.5°	444.4	334.3	192.1	164.6	162.4	171.9	183.8	189.9	187.7	179.2	177.0
85°	307.3	233.6	161.9	148.3	147.2	154.0	161.2	165.2	166.8	162.4	159.5
87.5°	206.8	171.9	137.7	130.3	131.0	136.0	141.0	144.9	149.9	149.5	146.7
90°	147.9	128.6	115.3	111.7	112.9	118.5	120.8	123.1	129.3	129.3	127.6
92.5°	105.6	97.7	93.2	92.2	94.4	99.0	100.0	100.6	105.1	105.6	102.2
95°	75.3	71.3	73.0	74.2	76.4	80.4	79.8	78.2	80.4	80.4	77.6
97.5°	55.7	54.4	57.9	59.0	60.6	64.0	62.3	59.6	61.3	59.0	57.3
100°	42.7	42.7	46.6	47.3	48.2	49.9	49.4	47.3	47.8	44.9	43.8
102.5°	33.6	34.2	37.1	37.6	38.7	40.5	39.3	38.2	37.1	33.6	33.6
105°	26.4	26.9	29.3	29.7	30.9	32.6	32.0	30.4	28.7	25.8	25.8
107.5°	20.2	21.4	23.0	23.5	24.8	26.4	25.8	23.5	21.4	19.7	19.7



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.7	16.9	18.5	19.1	19.7	21.4	20.2	18.0	16.3	15.2	15.2
112.5°	12.9	13.5	15.2	15.7	16.3	17.3	16.3	14.1	12.3	11.8	11.8
115°	10.7	11.1	12.3	12.9	14.1	14.1	12.9	10.7	9.5	9.5	9.5
117.5°	9.1	9.5	10.7	11.1	11.1	11.8	10.2	8.4	7.2	7.8	7.8
120°	7.8	7.8	9.1	9.1	9.5	9.5	8.4	6.7	5.6	6.2	6.7
122.5°	6.7	6.7	7.2	7.8	7.8	7.8	6.7	5.6	4.5	5.1	5.6
125°	5.6	6.2	6.2	6.7	6.7	6.7	5.6	4.5	4.0	4.5	4.5
127.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.5	3.4	3.4	4.0	4.0
130°	5.1	5.1	5.1	5.1	4.5	4.0	3.4	2.2	2.9	3.4	3.4
132.5°	4.5	4.5	4.5	4.0	3.4	2.9	2.2	1.6	1.6	2.9	2.9
135°	4.0	4.0	3.4	2.9	2.2	1.6	1.1	1.1	1.1	2.2	2.2
137.5°	3.4	3.4	2.9	2.2	1.6	1.1	0.5	0.0	0.5	1.1	1.1
140°	3.4	3.4	2.9	1.6	1.1	0.5	0.0	0.0	0.0	0.5	0.5
142.5°	2.9	2.9	2.2	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.2	2.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.6	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.6	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	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)