

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: P266096

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-FL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)  
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-T2U-FL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4655.2 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

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

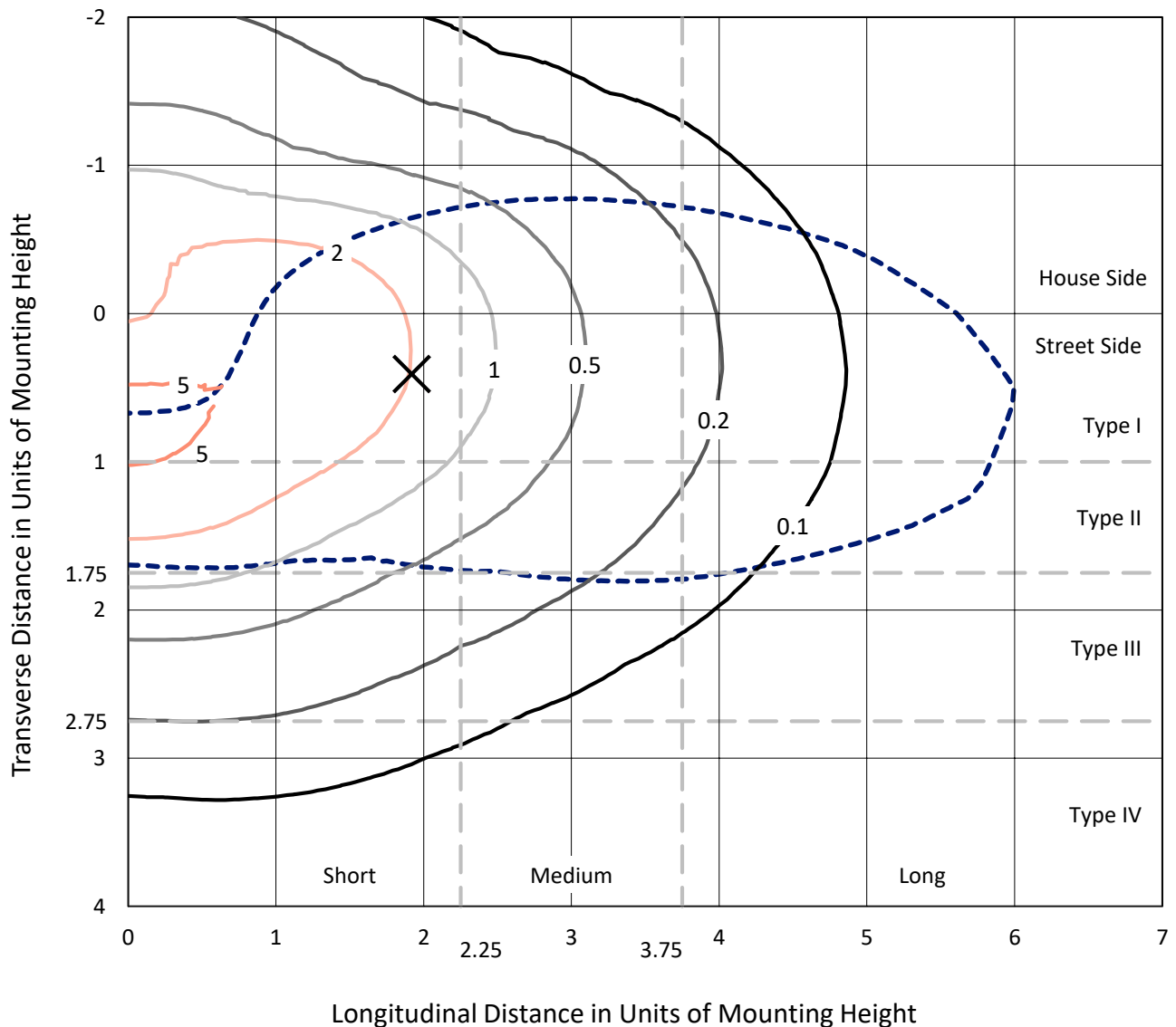


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

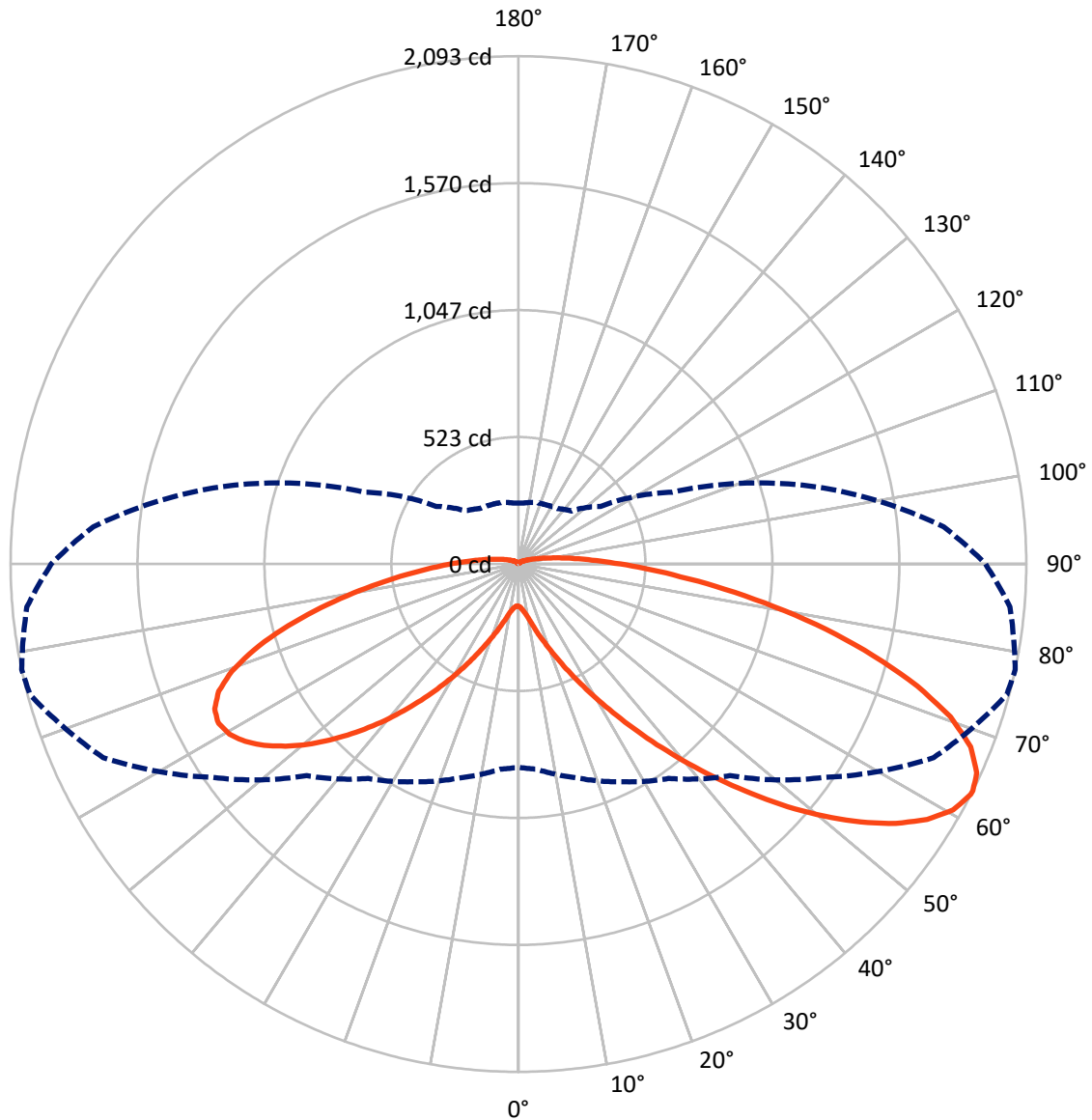


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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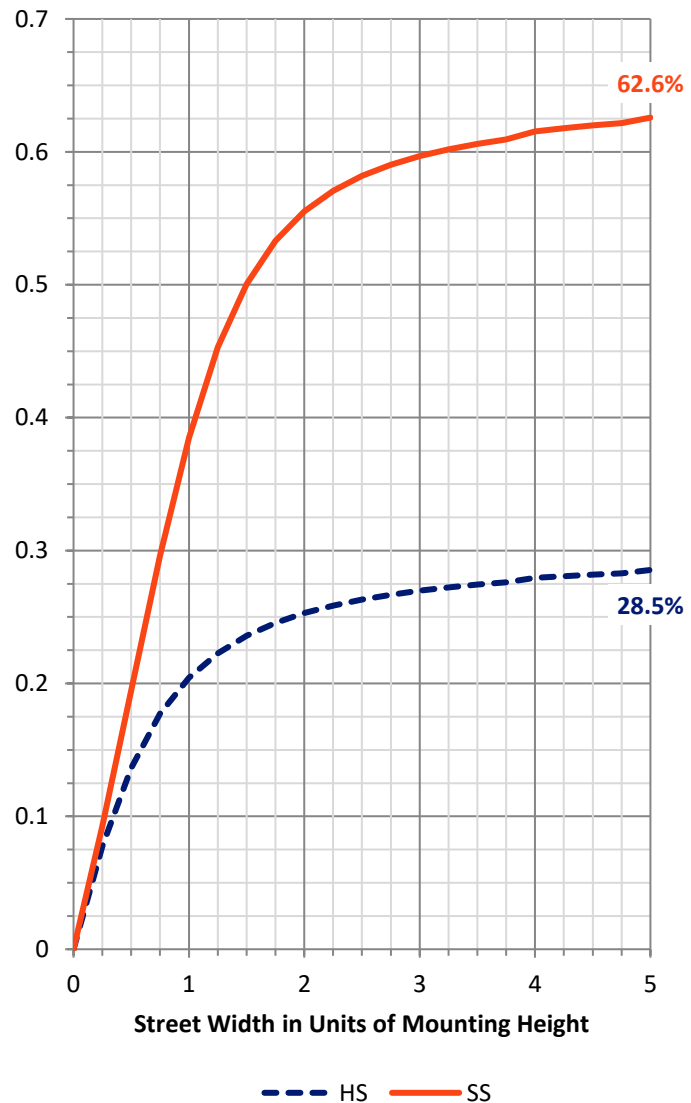
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1382.8	126.4	1509.2
	% Fixture	29.7	2.7	32.4
<b>Street Side</b>	Lumens	2989.4	156.5	3145.9
	% Fixture	64.2	3.4	67.6
<b>Total</b>	Lumens	4372.2	282.9	4655.2
	% Fixture	93.9	6.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.6	0.4
10°-20°	79.3	1.7
20°-30°	207.4	4.5
30°-40°	430.6	9.2
40°-50°	725.3	15.6
50°-60°	953.3	20.5
60°-70°	943.9	20.3
70°-80°	672.0	14.4
80°-90°	342.0	7.3
90°-100°	148.8	3.2
100°-110°	68.1	1.5
110°-120°	34.6	0.7
120°-130°	18.4	0.4
130°-140°	9.2	0.2
140°-150°	3.3	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4372.2	93.9
0°-180°	4655.2	100.0



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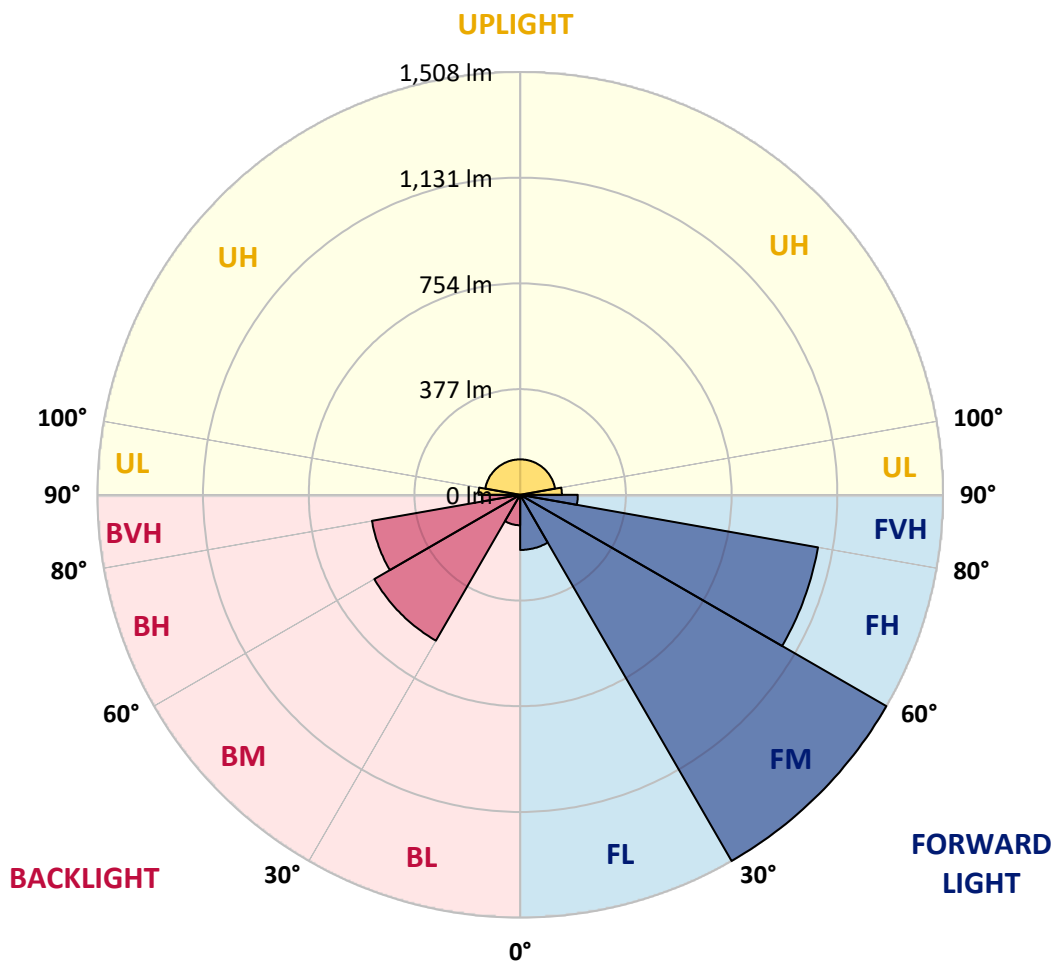
CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U-FL-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.8	4.2			
FM (30°-60°)	1508.4	32.4			
FH (60°-80°)	1078.9	23.2			G1/1800
FVH (80°-90°)	205.4	4.4			G2/225
BL (0°-30°)	108.5	2.3	B0/110		
BM (30°-60°)	600.7	12.9	B1/1000		
BH (60°-80°)	537.0	11.5	B2/1000		G2/1000
BVH (80°-90°)	136.6	2.9			G2/225
UL (90°-100°)	148.8	3.2		U3/500	
UH (100°-180°)	126.4	2.7		U3/500	

**BUG Rating: B2-U3-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2
2.5°	193.3	193.9	193.9	192.7	191.7	189.5	187.1	184.3	180.4	179.8	177.1
5°	216.3	216.9	216.3	214.2	211.9	208.0	203.5	198.3	191.7	191.1	185.9
7.5°	244.5	245.0	244.5	240.6	236.7	231.0	224.8	217.5	208.0	206.3	199.6
10°	279.4	280.5	278.7	275.4	268.7	260.1	252.3	241.6	231.6	227.6	219.1
12.5°	323.7	323.7	320.3	315.2	306.9	296.3	286.0	273.2	261.9	256.2	247.3
15°	373.2	373.8	369.3	363.1	354.0	337.8	326.5	313.0	299.0	293.9	281.0
17.5°	429.8	431.0	425.3	416.5	404.1	387.8	373.8	358.0	341.6	333.2	319.7
20°	496.3	496.3	490.0	478.3	462.4	444.5	426.5	408.5	390.6	380.4	366.4
22.5°	571.5	571.5	564.2	548.4	526.0	506.4	486.7	466.4	446.7	436.0	418.2
25°	658.6	662.1	647.9	628.3	603.0	575.5	555.8	532.2	510.9	499.1	479.3
27.5°	757.0	758.7	741.2	712.0	679.5	650.7	628.9	607.6	583.9	571.5	548.0
30°	862.6	859.3	843.5	808.7	766.0	731.1	709.2	689.5	662.6	653.0	627.1
32.5°	976.2	973.9	953.7	905.9	859.8	817.6	794.1	781.7	754.8	744.1	716.5
35°	1095.8	1091.9	1067.7	1017.7	957.1	911.1	889.6	883.5	858.7	848.0	814.9
37.5°	1221.2	1212.3	1181.8	1118.3	1055.4	1006.6	996.9	988.0	971.6	960.4	921.1
40°	1321.1	1317.3	1286.9	1220.5	1152.6	1111.7	1105.5	1111.7	1095.8	1082.9	1037.5
42.5°	1402.2	1399.3	1375.1	1310.0	1241.9	1204.3	1211.0	1231.2	1226.2	1213.3	1162.8
45°	1458.3	1455.6	1438.0	1382.0	1319.5	1292.0	1322.3	1359.5	1362.8	1352.0	1292.5
47.5°	1478.0	1476.4	1466.8	1425.7	1378.0	1371.3	1431.4	1489.7	1503.9	1494.9	1427.4
50°	1452.6	1453.8	1457.2	1438.6	1409.4	1428.6	1517.3	1614.1	1644.3	1634.2	1562.3
52.5°	1387.5	1391.5	1407.7	1413.9	1409.4	1458.3	1589.3	1726.5	1778.0	1766.8	1692.6
55°	1287.5	1293.1	1321.8	1353.7	1376.8	1456.2	1634.2	1821.4	1895.6	1887.7	1810.8
57.5°	1155.9	1167.3	1206.1	1262.7	1309.4	1421.3	1647.1	1886.6	1991.6	1986.1	1911.2
60°	1010.5	1019.9	1073.4	1147.6	1215.0	1353.2	1619.0	1914.6	2056.8	2058.6	1987.7
62.5°	866.0	876.7	939.6	1016.6	1102.6	1255.4	1552.2	1897.8	2083.8	2092.2	2031.0
63°	837.8	848.5	911.5	990.2	1079.0	1233.6	1534.1	1888.2	2083.8	2093.4	2033.9
65°	728.9	738.9	801.4	883.5	977.3	1138.1	1447.1	1832.1	2061.3	2076.0	2029.4
67.5°	601.9	612.6	675.4	756.5	846.9	1003.1	1310.0	1716.3	1984.4	2010.8	1980.9
70°	494.5	505.7	563.1	639.6	723.9	866.0	1153.2	1560.6	1860.7	1889.3	1878.1
72.5°	407.4	417.1	473.1	537.2	612.6	738.9	992.4	1372.9	1683.8	1718.5	1725.3
75°	332.7	342.9	392.3	449.6	515.8	622.0	836.9	1174.5	1464.4	1512.8	1532.0
77.5°	271.5	281.0	324.8	374.9	431.0	518.1	693.5	977.8	1239.8	1298.2	1322.9
80°	221.4	230.4	266.3	311.9	359.7	429.8	568.2	788.0	1017.2	1070.1	1095.8
82.5°	179.8	187.7	219.1	259.2	299.6	356.3	463.6	630.5	812.6	857.1	871.0
85°	144.9	151.8	179.8	214.7	249.0	292.8	374.9	498.5	635.6	670.5	687.8
87.5°	115.8	121.5	146.7	177.1	206.3	246.1	303.4	397.3	491.7	517.6	528.8
90°	93.9	98.4	119.1	144.9	171.3	200.6	246.1	309.0	378.1	396.7	404.6
92.5°	76.4	79.8	98.4	119.7	143.3	169.7	200.6	244.5	291.1	303.4	308.5
95°	64.0	65.1	81.4	100.0	119.1	141.7	164.1	194.5	224.8	233.2	235.4
97.5°	52.3	54.0	68.0	84.9	101.1	117.9	134.2	155.6	174.8	179.8	180.4
100°	44.9	45.5	57.3	72.6	86.5	100.0	111.7	124.8	136.1	137.7	138.8
102.5°	38.2	38.7	48.9	62.9	74.7	86.0	95.0	102.2	106.8	107.3	107.3
105°	33.1	33.7	42.1	54.4	65.1	73.7	80.9	83.7	84.9	84.4	84.4
107.5°	29.7	29.7	37.1	47.8	57.3	64.6	69.1	69.7	68.0	66.8	66.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	26.4	26.9	32.6	42.7	51.2	56.8	60.1	58.4	55.1	54.0	54.0
112.5°	24.2	24.8	28.7	37.6	44.9	50.6	52.3	49.4	44.9	43.8	44.3
115°	22.5	22.5	25.8	33.1	40.5	44.9	45.5	42.1	37.1	36.6	37.1
117.5°	20.8	20.8	23.0	29.7	35.9	40.0	40.0	35.9	31.5	30.4	30.9
120°	19.7	19.7	21.4	26.4	32.0	35.5	34.9	30.9	26.4	26.4	26.9
122.5°	18.5	18.5	19.7	23.5	28.7	31.5	30.9	26.4	22.5	22.5	23.0
125°	17.4	17.4	18.0	21.4	25.3	27.6	26.9	22.5	19.7	19.7	20.2
127.5°	16.3	16.3	16.9	19.1	22.5	24.2	23.0	19.1	17.4	17.4	18.0
130°	15.7	15.7	15.7	16.9	19.7	21.4	19.7	16.3	15.2	15.2	15.7
132.5°	14.6	14.6	14.6	15.2	16.9	18.0	16.9	14.1	13.5	13.5	14.1
135°	14.1	14.1	13.5	13.5	14.6	15.2	13.5	11.8	11.8	11.8	12.3
137.5°	12.9	12.9	12.3	11.8	12.3	12.3	11.3	9.5	10.2	10.2	10.7
140°	11.8	11.8	11.3	10.2	9.5	9.5	8.4	7.8	8.4	8.4	9.1
142.5°	10.2	10.2	9.5	8.4	7.2	6.7	6.2	6.2	6.7	6.7	7.2
145°	8.4	8.4	7.8	6.7	5.6	5.1	4.5	4.5	5.1	5.1	5.6
147.5°	6.7	6.7	6.2	5.1	4.0	2.9	2.9	3.4	4.0	4.0	4.0
150°	5.6	5.6	5.1	4.0	2.2	1.6	1.1	1.6	2.2	2.2	2.2
152.5°	4.0	4.0	3.4	2.2	1.6	0.5	0.5	1.1	1.6	1.6	1.6
155°	2.2	2.2	1.6	1.1	0.5	0.5	0.5	0.5	1.1	1.1	1.1
157.5°	1.1	1.1	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2
2.5°	175.9	174.8	171.9	169.2	166.9	165.2	164.1	162.5	161.9	161.2	161.2
5°	183.3	180.4	175.3	170.3	165.7	161.9	158.6	155.6	154.0	152.8	153.4
7.5°	195.0	190.5	183.3	175.3	168.1	162.5	157.4	154.0	151.2	149.5	149.5
10°	213.5	207.4	196.1	185.0	175.9	167.4	161.2	156.2	152.8	151.2	151.2
12.5°	239.9	232.1	216.3	200.6	188.3	177.1	169.2	164.1	163.0	161.2	161.2
15°	271.5	261.9	242.8	222.5	205.7	190.5	183.8	179.3	176.4	174.2	174.2
17.5°	308.5	296.3	271.9	247.3	226.6	210.7	199.6	193.3	189.9	188.3	188.3
20°	351.2	336.1	306.3	275.4	249.5	232.7	217.5	208.0	204.5	202.8	202.3
22.5°	400.7	382.1	346.1	307.4	277.0	254.6	236.7	222.5	218.6	216.9	215.9
25°	459.8	438.9	391.1	344.0	306.3	275.4	253.4	237.7	232.1	230.4	229.8
27.5°	526.0	500.7	442.2	384.4	333.8	293.9	268.1	251.7	244.5	242.3	242.8
30°	600.2	570.5	498.5	425.3	360.8	310.8	279.8	262.5	254.6	252.3	252.3
32.5°	682.8	643.5	559.7	468.6	386.1	324.8	290.1	271.9	262.5	260.8	260.8
35°	773.8	732.7	626.1	512.6	408.5	336.1	297.2	279.4	269.2	266.9	266.9
37.5°	878.4	824.5	696.2	554.7	427.7	344.5	302.3	283.9	273.7	270.3	270.3
40°	984.6	922.2	769.4	594.6	443.9	349.5	305.2	286.0	276.5	271.9	271.5
42.5°	1101.0	1022.8	844.0	631.1	455.3	352.3	305.8	287.7	277.7	271.9	270.8
45°	1221.8	1137.4	913.1	662.6	463.6	352.3	305.2	287.2	277.7	270.3	269.2
47.5°	1343.7	1248.1	985.1	689.0	467.6	350.7	304.0	286.6	277.0	268.1	266.9
50°	1470.6	1358.9	1053.2	709.8	466.9	347.4	301.2	284.9	274.8	265.3	264.1
52.5°	1589.8	1460.6	1115.5	724.5	463.6	342.3	297.9	283.2	273.2	262.5	261.3
55°	1705.6	1562.8	1169.5	732.3	456.2	336.1	294.5	281.0	271.5	259.6	259.2
57.5°	1798.9	1648.8	1211.6	731.7	445.6	328.2	290.5	278.1	269.2	258.0	256.8
60°	1875.3	1718.0	1238.7	723.2	432.8	320.3	286.0	274.8	266.9	255.7	254.0
62.5°	1920.2	1756.7	1245.3	705.3	417.1	311.4	279.8	269.8	263.1	253.0	251.2
63°	1925.3	1760.0	1243.7	700.8	413.6	309.0	278.7	269.2	262.5	252.3	250.6
65°	1923.6	1759.1	1227.4	677.7	398.9	300.2	273.2	264.1	258.5	249.0	247.3
67.5°	1879.9	1716.3	1181.4	639.6	377.6	288.3	264.1	256.8	251.2	242.8	241.0
70°	1784.8	1625.3	1103.7	591.8	354.0	274.8	253.0	247.3	241.6	233.7	231.6
72.5°	1644.3	1490.9	999.8	540.6	329.3	259.2	240.6	234.8	230.4	223.7	219.7
75°	1461.2	1320.7	879.5	483.3	302.3	242.8	225.4	220.9	215.2	209.0	205.7
77.5°	1248.1	1126.3	752.5	424.3	274.8	224.2	209.0	203.9	199.0	192.1	187.7
80°	1033.0	930.6	626.6	367.0	247.3	204.5	191.1	186.6	180.4	173.2	168.6
82.5°	828.3	748.6	512.6	314.1	220.4	185.0	172.6	166.9	160.2	152.8	150.0
85°	646.8	588.4	413.0	266.3	193.9	165.2	154.0	148.4	140.0	131.5	128.1
87.5°	499.1	456.2	331.6	224.2	169.7	146.2	134.8	128.1	120.3	111.7	109.1
90°	382.7	353.6	265.3	188.9	147.9	127.0	117.9	111.7	102.9	94.4	92.2
92.5°	293.3	273.7	213.0	159.0	126.4	111.3	103.5	96.7	87.7	79.2	77.6
95°	225.4	212.4	171.9	133.2	109.7	97.2	90.5	83.2	74.2	66.4	64.6
97.5°	174.8	165.7	138.8	112.4	95.0	84.9	79.2	72.0	62.9	55.7	54.4
100°	135.5	129.8	112.9	94.4	82.6	74.2	68.6	62.4	54.0	46.2	46.2
102.5°	105.6	102.2	92.7	80.9	72.0	65.8	60.6	54.0	45.5	39.3	38.7
105°	83.7	82.0	76.4	69.1	62.9	57.9	53.4	46.6	38.7	33.1	33.1
107.5°	66.8	66.4	63.5	59.0	55.1	51.2	47.3	40.5	33.1	28.7	28.7



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	54.4	54.4	53.4	50.6	48.2	44.9	41.1	35.5	28.0	24.8	24.8
112.5°	44.9	45.5	44.9	43.8	42.7	40.0	36.6	30.4	24.2	21.9	21.9
115°	37.6	38.2	38.2	38.2	37.6	35.5	32.0	26.4	20.8	19.1	19.1
117.5°	32.0	32.6	33.1	33.1	32.6	30.9	28.0	23.0	18.0	16.9	17.4
120°	27.6	28.0	28.7	29.3	28.7	27.6	24.2	19.7	15.7	15.2	15.2
122.5°	24.2	24.8	24.8	25.3	25.3	24.2	21.4	16.9	13.5	13.5	13.5
125°	20.8	21.4	21.9	21.9	22.5	20.8	18.0	14.1	11.8	11.8	12.3
127.5°	18.5	18.5	18.5	19.1	19.1	18.0	15.7	11.8	10.2	10.7	10.7
130°	16.3	16.3	16.9	16.9	16.9	15.7	12.9	10.2	9.1	9.5	9.5
132.5°	14.1	14.6	14.6	14.1	14.1	13.5	10.7	8.4	7.8	8.4	8.4
135°	12.3	12.9	12.9	11.8	11.8	10.7	9.1	6.7	7.2	7.2	7.8
137.5°	10.7	11.3	10.7	10.2	9.5	9.1	7.2	5.6	6.2	6.7	6.7
140°	9.1	9.1	9.1	8.4	7.8	6.7	5.6	4.5	5.6	5.6	5.6
142.5°	7.2	7.2	7.2	6.7	5.6	5.1	4.0	4.0	4.5	4.5	4.5
145°	5.6	5.6	5.6	5.1	4.0	3.4	2.9	2.9	3.4	4.0	4.0
147.5°	4.0	4.0	4.0	3.4	2.2	1.6	1.6	2.2	2.9	2.9	2.9
150°	2.9	2.9	2.9	2.2	1.6	1.1	1.1	1.6	1.6	2.2	2.2
152.5°	1.6	2.2	2.2	1.6	1.1	0.5	0.5	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.6	1.1	1.1	0.5	0.0	0.0	0.5	0.5	0.5
157.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	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)