

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: P254907

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)  
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-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5425.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3

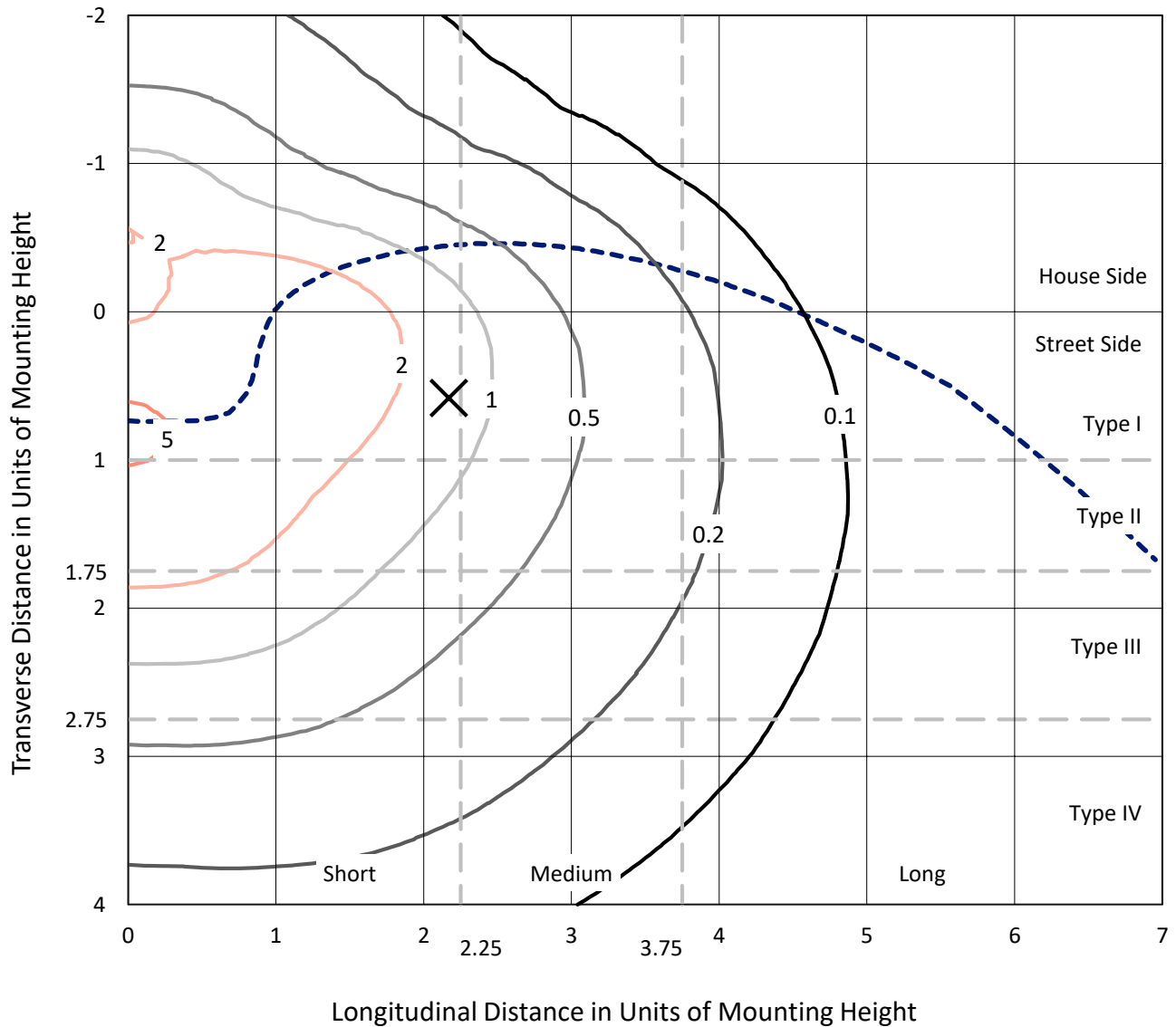
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

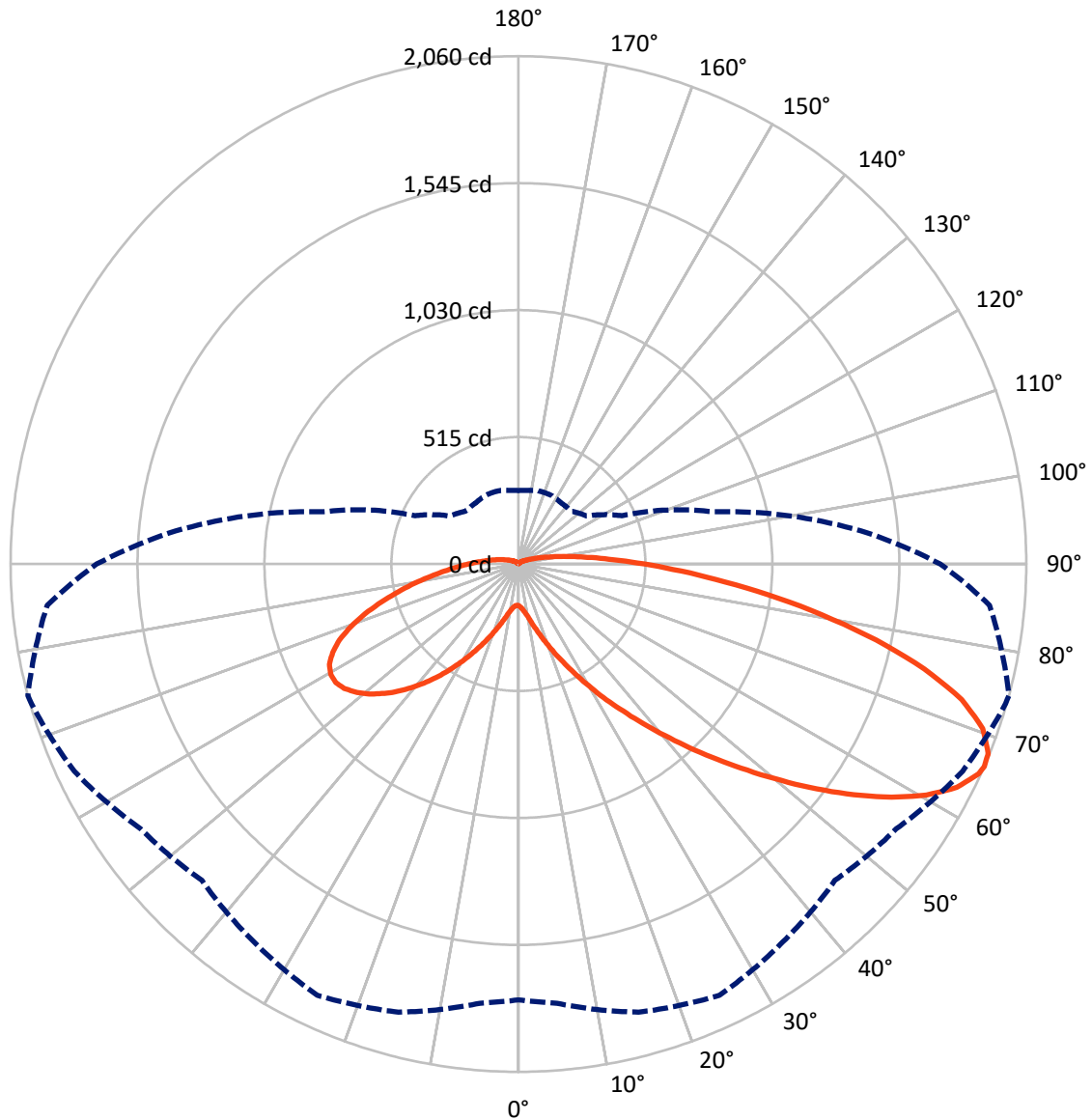
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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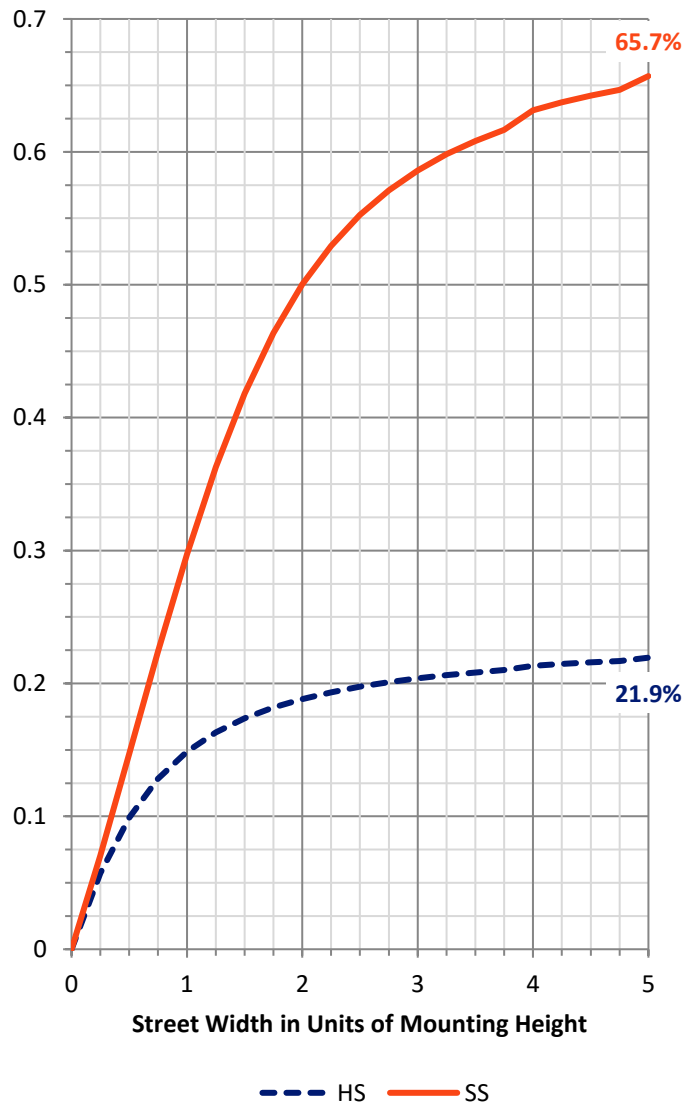
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1257.3	135.5	1392.8
	% Fixture	23.2	2.5	25.7
<b>Street Side</b>	Lumens	3770.1	262.8	4032.9
	% Fixture	69.5	4.8	74.3
<b>Total</b>	Lumens	5027.4	398.3	5425.7
	% Fixture	92.7	7.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.9	0.3
10°-20°	75.2	1.4
20°-30°	190.1	3.5
30°-40°	380.4	7.0
40°-50°	646.7	11.9
50°-60°	962.3	17.7
60°-70°	1181.6	21.8
70°-80°	1016.1	18.7
80°-90°	557.1	10.3
90°-100°	232.4	4.3
100°-110°	95.0	1.8
110°-120°	41.8	0.8
120°-130°	19.1	0.4
130°-140°	7.9	0.1
140°-150°	1.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5027.4	92.7
0°-180°	5425.7	100.0

**Coefficient of Utilization**



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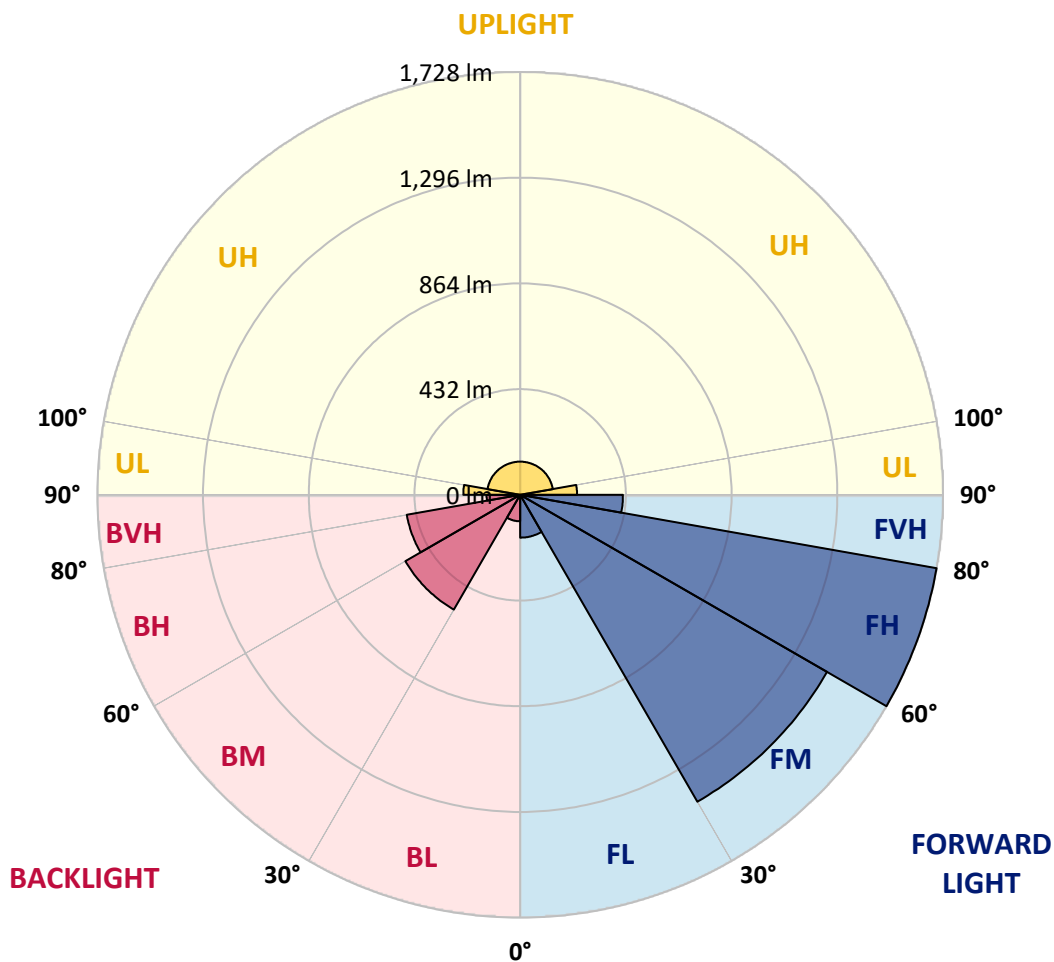
CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T4W-FL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.0	3.2			
FM (30°-60°)	1447.8	26.7			
FH (60°-80°)	1727.5	31.8			G1/1800
FVH (80°-90°)	419.7	7.7			G3/500
BL (0°-30°)	108.2	2.0	B0/110		
BM (30°-60°)	541.6	10.0	B1/1000		
BH (60°-80°)	470.2	8.7	B1/500		G1/500
BVH (80°-90°)	137.3	2.5			G2/225
UL (90°-100°)	232.4	4.3		U3/500	
UH (100°-180°)	135.5	2.5		U3/500	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4
2.5°	186.6	186.6	185.9	185.9	183.9	182.0	180.7	177.3	175.3	175.3	172.7
5°	206.4	206.4	205.7	204.5	201.8	198.5	194.5	189.9	185.9	185.3	180.7
7.5°	230.9	230.9	229.6	226.9	223.0	218.3	213.1	206.4	200.5	199.2	192.5
10°	261.4	261.4	259.3	255.4	250.1	244.2	236.8	227.6	219.6	219.0	209.7
12.5°	299.7	297.7	296.5	289.8	282.5	274.6	266.0	254.7	246.7	246.7	234.3
15°	343.4	343.4	338.1	329.5	320.2	309.6	300.3	289.1	279.9	279.2	264.6
17.5°	391.7	391.0	385.0	374.5	361.9	351.3	339.4	326.8	316.3	316.3	299.0
20°	447.2	445.9	438.0	424.1	408.9	397.0	383.7	369.2	357.9	357.9	338.7
22.5°	510.8	508.1	498.2	479.0	463.8	446.6	431.4	416.9	404.9	406.2	384.4
25°	582.3	578.9	566.3	541.9	520.1	499.5	484.3	469.1	460.5	457.2	439.4
27.5°	663.0	656.3	642.4	611.3	580.2	555.1	539.2	527.9	520.1	517.4	496.8
30°	751.6	745.0	725.8	686.7	645.7	614.0	598.7	590.1	586.2	582.9	562.4
32.5°	852.8	845.6	819.1	770.1	717.2	677.5	663.0	659.0	659.0	656.3	635.8
35°	962.6	953.4	921.6	860.1	793.3	745.6	731.7	733.8	734.4	732.4	715.2
37.5°	1079.7	1069.8	1032.2	958.7	875.3	818.5	804.6	813.8	827.1	819.7	801.9
40°	1200.1	1190.9	1150.5	1061.2	961.4	894.5	880.6	899.2	920.3	914.3	894.5
42.5°	1319.9	1315.9	1265.0	1169.7	1053.3	974.6	964.6	993.1	1022.2	1018.2	996.4
45°	1450.2	1438.4	1388.8	1282.2	1151.8	1067.1	1055.9	1094.4	1134.0	1130.1	1108.2
47.5°	1567.4	1556.1	1509.2	1396.0	1251.1	1159.1	1151.8	1203.5	1253.7	1249.1	1227.3
50°	1666.0	1664.6	1625.0	1507.8	1355.6	1255.1	1254.4	1319.3	1380.8	1379.4	1351.6
52.5°	1760.5	1758.6	1722.1	1616.4	1460.2	1351.6	1356.9	1441.6	1515.1	1515.1	1478.1
55°	1833.3	1832.6	1811.5	1719.5	1563.4	1458.8	1474.1	1567.4	1651.3	1651.3	1614.3
57.5°	1884.3	1883.6	1881.0	1810.8	1662.6	1560.7	1584.6	1691.0	1782.4	1784.3	1735.4
60°	1896.1	1902.2	1928.6	1884.3	1751.3	1653.4	1685.8	1804.9	1898.8	1902.2	1835.3
62.5°	1875.0	1884.3	1937.9	1928.6	1818.8	1736.8	1777.1	1899.5	1990.2	1995.5	1903.5
65°	1804.9	1824.0	1906.1	1936.5	1861.2	1797.6	1851.2	1968.3	2043.8	2051.0	1925.3
66°	1767.1	1787.7	1881.6	1929.3	1870.4	1814.8	1871.1	1987.5	2055.0	2059.6	1918.0
67.5°	1695.7	1716.2	1827.4	1900.8	1870.4	1831.4	1887.5	2000.7	2053.0	2055.0	1892.3
70°	1542.2	1574.0	1698.4	1812.2	1832.0	1822.7	1886.9	1980.8	2004.7	1998.0	1793.6
72.5°	1373.5	1391.4	1527.7	1682.4	1749.3	1767.1	1840.6	1906.1	1890.2	1880.3	1645.4
75°	1151.8	1177.6	1326.6	1503.2	1605.1	1659.9	1738.7	1761.8	1722.1	1701.0	1450.2
77.5°	962.0	972.5	1111.5	1292.8	1427.1	1501.9	1576.0	1583.2	1501.2	1483.4	1223.3
80°	764.9	775.4	903.1	1077.1	1222.6	1321.2	1386.1	1366.9	1263.7	1246.5	1011.6
82.5°	597.4	612.0	709.9	876.0	1016.9	1120.7	1170.4	1139.3	1041.4	1016.9	805.9
85°	458.5	465.7	557.1	700.0	824.4	919.0	960.0	925.6	820.4	801.2	633.2
87.5°	349.3	356.6	434.0	546.5	656.3	737.0	768.7	725.2	639.8	627.2	491.5
90°	266.6	271.9	333.5	430.0	514.7	581.5	603.4	569.0	492.9	481.6	378.5
92.5°	204.5	209.1	256.7	333.5	402.9	459.8	469.1	436.7	377.8	367.9	291.1
95°	156.8	162.1	200.5	260.6	315.0	357.9	364.6	336.8	289.8	281.8	224.3
97.5°	123.1	125.0	157.4	206.4	250.7	280.5	283.2	262.0	221.7	216.4	172.7
100°	98.6	99.9	125.0	163.5	199.8	221.7	223.0	201.1	170.0	166.0	132.4
102.5°	80.1	81.4	100.6	131.7	158.8	176.7	175.9	158.8	131.7	126.3	103.2
105°	66.2	66.8	82.0	107.2	129.0	141.0	140.2	123.7	101.3	97.9	80.7
107.5°	55.5	56.3	67.5	87.4	105.9	115.8	113.8	97.3	78.8	76.7	64.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	47.0	47.7	56.3	72.7	89.3	96.0	93.3	77.4	62.2	59.5	51.6
112.5°	41.0	41.0	47.7	60.9	74.8	80.7	76.7	62.8	49.0	47.7	42.4
115°	35.7	36.4	41.0	51.6	63.5	67.5	63.5	50.3	39.7	38.4	35.1
117.5°	31.7	31.7	35.7	43.7	53.6	56.3	52.3	41.0	32.4	31.7	29.8
120°	28.4	28.4	31.1	37.0	45.0	47.7	43.7	33.8	26.5	25.8	25.2
122.5°	25.8	25.8	27.1	31.7	38.4	39.7	35.7	27.8	22.5	21.8	21.8
125°	23.1	23.1	23.8	27.1	32.4	33.8	29.8	22.5	19.2	18.5	18.5
127.5°	21.2	21.2	21.2	23.8	26.5	27.8	24.4	18.5	15.9	15.9	16.6
130°	19.2	19.2	19.2	19.8	21.8	22.5	19.8	15.2	13.9	13.9	13.9
132.5°	17.2	17.2	16.6	17.2	17.9	17.9	15.2	12.6	11.9	11.9	12.6
135°	15.2	15.2	14.5	14.5	14.5	13.9	11.9	9.9	9.9	9.9	10.5
137.5°	13.2	13.2	12.6	11.9	11.3	9.9	8.6	8.0	8.0	8.0	8.6
140°	11.3	11.3	10.5	9.3	8.0	7.3	5.9	5.9	6.6	6.6	6.6
142.5°	8.6	8.6	8.0	7.3	5.9	4.6	4.0	4.0	4.6	4.6	5.3
145°	6.6	6.6	5.9	4.6	3.3	2.7	1.9	2.7	3.3	3.3	4.0
147.5°	4.6	4.6	4.0	3.3	1.9	0.6	1.3	1.9	2.7	2.7	3.3
150°	2.7	2.7	1.9	1.3	0.0	0.0	0.6	1.3	1.9	1.9	1.9
152.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	1.3	1.3	1.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4	169.4
2.5°	171.3	170.0	167.4	165.4	162.8	161.4	160.1	158.8	158.1	156.8	156.8
5°	177.3	175.3	170.7	166.7	162.1	158.8	155.5	153.5	152.2	151.5	151.5
7.5°	188.5	185.3	178.0	172.1	165.4	161.4	157.4	153.5	151.5	150.9	150.9
10°	204.5	200.5	190.6	182.0	173.4	167.4	163.5	158.8	156.8	155.5	155.5
12.5°	227.6	221.0	209.1	196.5	185.3	178.0	172.7	169.4	169.4	170.7	170.0
15°	256.7	249.4	232.2	216.4	201.1	191.2	187.9	187.2	187.2	187.9	187.9
17.5°	288.5	278.5	258.7	238.1	220.3	210.4	206.4	205.1	205.1	205.7	207.0
20°	326.8	314.3	289.1	262.7	243.5	231.6	225.6	223.6	224.9	227.6	227.6
22.5°	371.1	357.3	323.6	289.8	267.3	252.1	244.8	242.8	245.5	248.8	249.4
25°	422.1	403.6	361.2	319.6	290.4	271.3	264.0	261.4	265.4	269.2	271.3
27.5°	478.3	454.5	402.2	349.3	311.0	287.8	279.9	279.2	284.5	289.8	291.7
30°	540.5	511.5	445.9	380.4	332.2	302.4	293.8	295.7	301.7	308.3	309.6
32.5°	609.4	574.9	491.5	410.8	348.6	313.6	303.7	308.3	315.6	324.2	325.5
35°	684.1	642.4	539.9	439.4	363.2	322.2	312.3	318.2	326.2	335.4	336.8
37.5°	765.5	714.5	588.2	464.4	374.5	327.5	316.9	324.2	333.5	342.1	343.4
40°	850.2	789.3	636.5	486.9	382.4	330.8	318.9	326.8	336.1	342.7	344.0
42.5°	946.1	870.0	683.4	504.8	387.1	331.4	318.9	326.2	335.4	340.0	340.7
45°	1048.0	955.3	729.8	519.4	389.0	330.8	316.9	324.9	332.2	334.1	334.8
47.5°	1153.9	1042.7	771.4	527.9	389.0	328.2	314.3	320.2	326.2	325.5	326.2
50°	1271.6	1134.0	810.5	533.3	386.4	324.9	311.6	316.3	320.2	316.9	317.5
52.5°	1382.7	1224.7	842.2	535.2	381.8	320.9	308.9	312.9	315.0	310.3	310.3
55°	1493.3	1310.0	868.1	531.3	375.8	317.5	307.0	311.0	311.0	305.0	305.0
57.5°	1595.8	1382.7	882.6	523.3	368.5	315.0	305.7	309.6	309.6	301.7	301.7
60°	1675.2	1435.0	883.2	510.8	359.9	311.6	305.0	309.6	308.9	301.1	300.3
62.5°	1723.5	1458.2	868.1	492.9	351.3	308.3	304.3	308.9	308.9	300.3	299.7
65°	1723.5	1443.0	834.9	471.7	341.4	304.3	303.0	308.9	307.6	299.7	298.4
66°	1710.3	1426.4	817.1	462.5	338.1	303.0	302.4	308.9	307.6	299.7	297.7
67.5°	1673.9	1386.7	788.0	447.2	330.1	299.7	301.1	307.0	306.4	297.7	296.5
70°	1568.0	1284.2	725.2	420.1	318.2	293.8	297.1	302.4	301.7	293.8	291.1
72.5°	1412.5	1149.2	653.7	391.0	305.0	285.8	289.8	295.1	293.8	287.1	284.5
75°	1229.3	996.4	576.2	359.9	289.1	275.3	279.9	284.5	283.2	277.2	273.2
77.5°	1031.4	838.9	499.5	327.5	272.6	262.0	266.6	271.3	268.6	263.3	260.6
80°	837.6	686.7	426.8	295.1	253.4	246.7	251.4	252.8	250.7	246.1	242.8
82.5°	668.2	552.5	357.9	263.3	232.9	228.9	232.2	232.2	230.3	225.6	222.3
85°	524.7	440.6	301.1	231.6	212.4	209.7	211.8	209.7	207.0	202.4	199.8
87.5°	413.5	353.3	252.1	203.8	189.9	189.2	189.9	185.3	182.6	178.6	175.9
90°	322.8	277.2	210.4	177.3	169.4	168.7	167.4	162.8	156.8	152.8	150.9
92.5°	252.1	223.0	174.0	151.5	147.5	146.9	144.8	138.9	134.9	129.7	127.7
95°	199.8	178.0	144.2	131.0	129.0	128.4	125.7	119.1	113.8	108.5	107.2
97.5°	156.8	141.0	120.4	112.5	111.8	111.2	107.8	100.6	94.6	89.3	88.7
100°	123.1	113.1	100.6	96.6	96.6	96.0	92.6	85.3	78.1	72.7	72.1
102.5°	97.9	91.3	84.0	82.7	82.7	82.0	78.8	72.7	64.1	58.2	58.2
105°	78.1	74.1	70.2	70.8	71.5	70.8	67.5	60.3	51.6	47.0	47.0
107.5°	62.8	60.3	58.9	60.3	60.9	60.9	57.6	49.6	41.6	37.7	37.7



REPORT NUMBER: P254907

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T4W-FL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	50.9	49.6	49.6	50.9	52.3	52.3	48.3	41.6	33.8	30.5	30.5
112.5°	41.6	41.0	41.6	44.3	45.0	44.3	41.0	34.4	27.1	25.2	25.2
115°	35.1	35.1	35.7	37.7	39.1	37.7	34.4	27.8	21.8	20.5	20.5
117.5°	29.8	29.8	30.5	32.4	33.0	31.7	28.4	22.5	17.9	17.2	17.2
120°	25.2	25.2	25.8	27.1	27.8	26.5	23.1	18.5	14.5	13.9	14.5
122.5°	21.8	21.8	22.5	23.1	23.8	22.5	19.2	14.5	11.9	11.9	11.9
125°	19.2	19.2	19.2	19.8	19.8	18.5	15.9	11.9	9.3	9.9	9.9
127.5°	16.6	16.6	16.6	16.6	16.6	15.2	12.6	9.3	8.0	8.6	8.6
130°	14.5	14.5	13.9	13.9	13.2	12.6	9.9	7.3	6.6	7.3	7.3
132.5°	12.6	12.6	11.9	11.3	10.5	9.9	8.0	5.3	5.3	5.9	5.9
135°	10.5	10.5	9.9	9.3	8.6	7.3	5.3	4.0	4.0	4.6	4.6
137.5°	8.6	8.6	8.0	7.3	5.9	5.3	4.0	2.7	3.3	4.0	4.0
140°	6.6	6.6	5.9	5.3	4.0	2.7	1.9	1.9	1.9	2.7	2.7
142.5°	5.3	5.3	4.6	3.3	1.9	1.3	0.6	0.6	1.3	1.9	1.9
145°	4.0	4.0	3.3	2.7	1.3	0.6	0.0	0.0	0.6	0.6	0.6
147.5°	3.3	2.7	2.7	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.7	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.6	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)