

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: P254750

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-CL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-T2U-CL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8701.1 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 96  
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

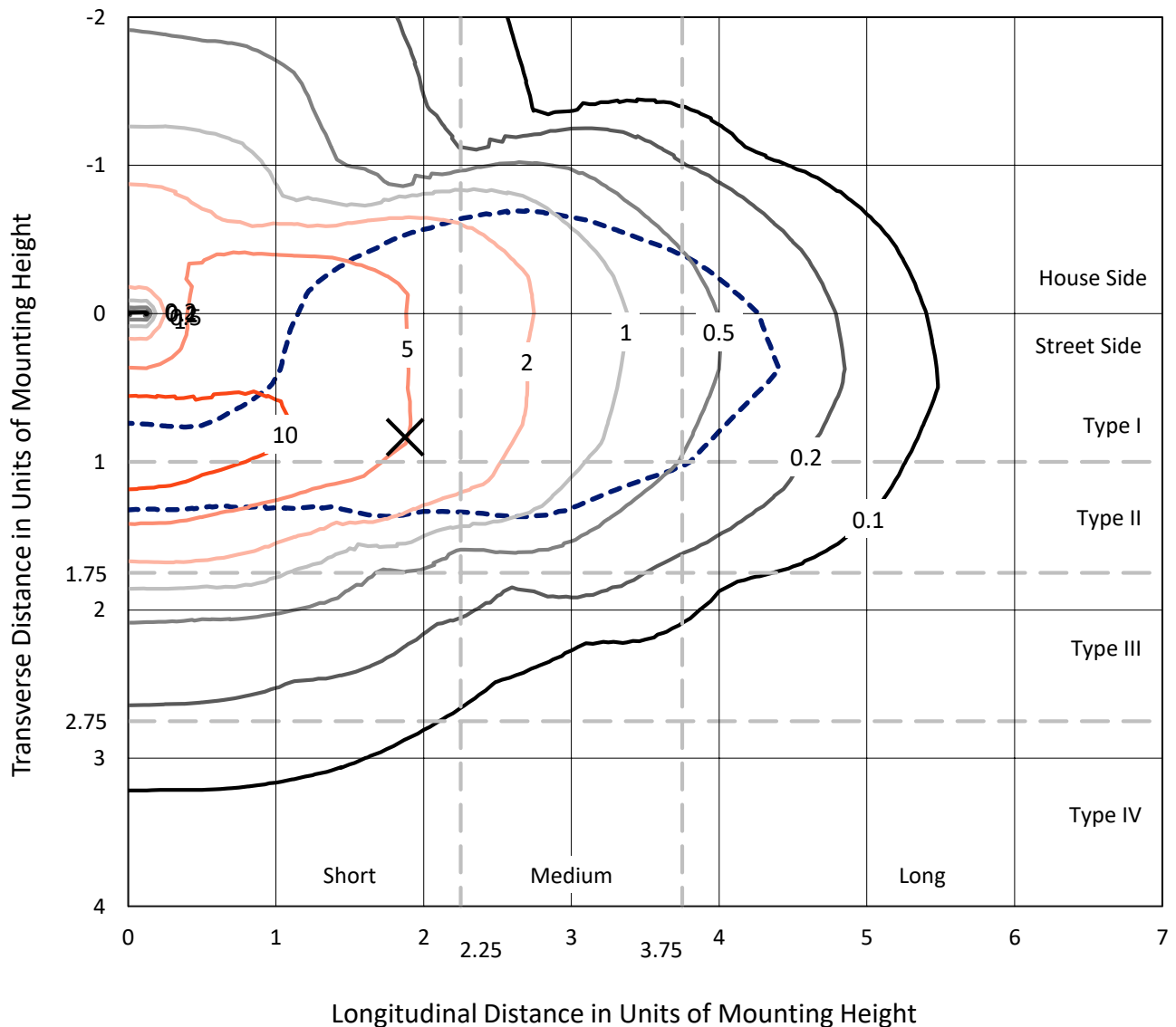


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

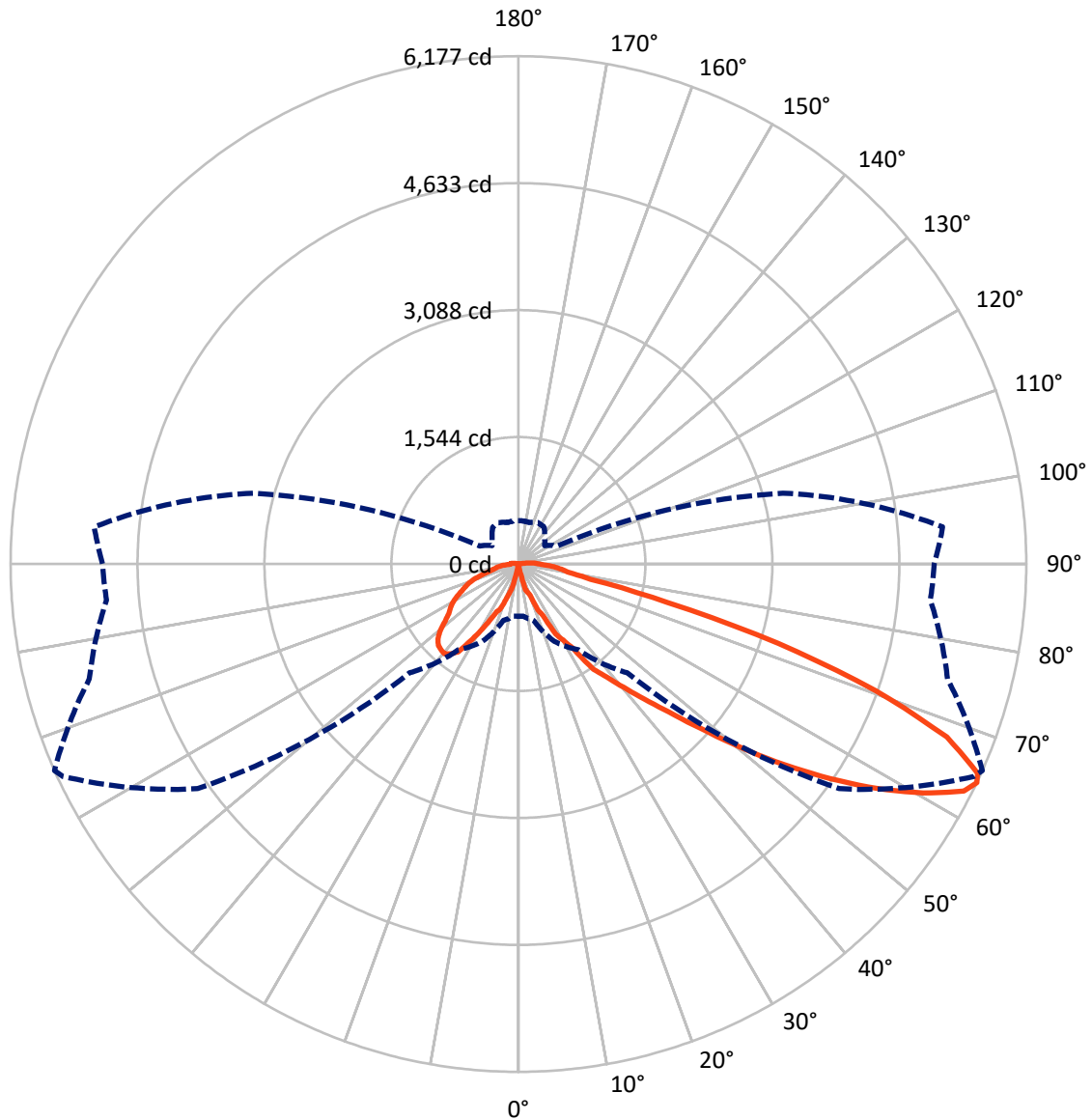


Based on 10 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical



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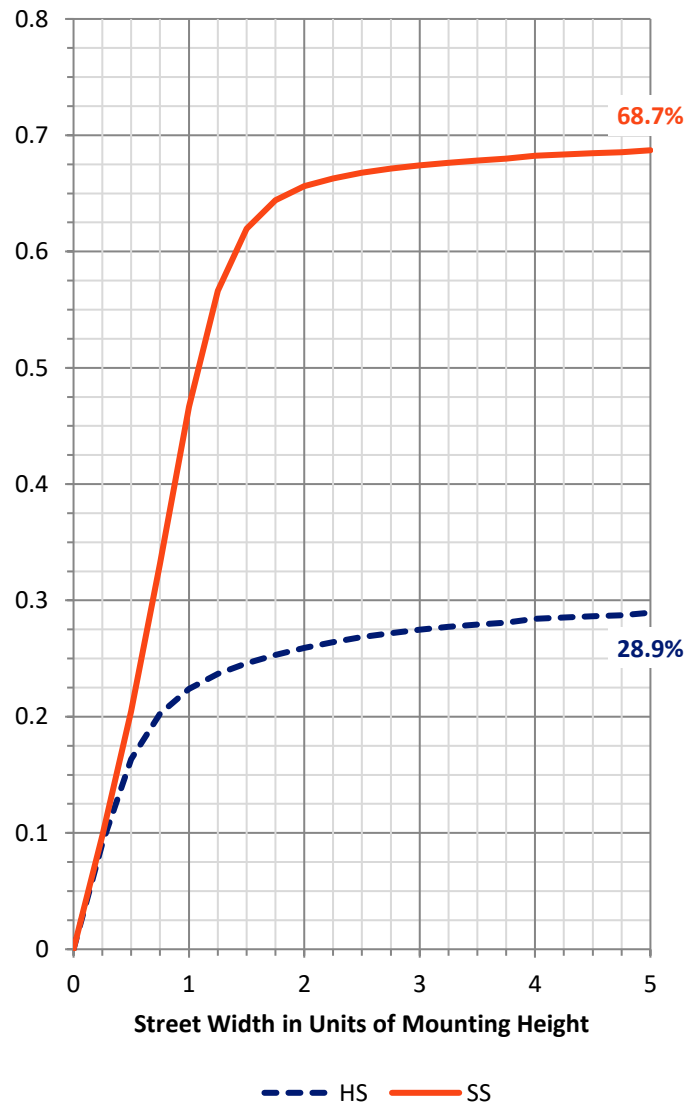
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2574.9	53.3	2628.1
	% Fixture	29.6	0.6	30.2
<b>Street Side</b>	Lumens	6024.6	48.4	6073.0
	% Fixture	69.2	0.6	69.8
<b>Total</b>	Lumens	8599.5	101.6	8701.1
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	84.4	1.0
20°-30°	340.0	3.9
30°-40°	860.8	9.9
40°-50°	1641.3	18.9
50°-60°	2201.6	25.3
60°-70°	2038.6	23.4
70°-80°	1146.5	13.2
80°-90°	280.6	3.2
90°-100°	85.6	1.0
100°-110°	10.2	0.1
110°-120°	2.7	0.0
120°-130°	1.7	0.0
130°-140°	0.6	0.0
140°-150°	0.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8599.5	98.8
0°-180°	8701.1	100.0



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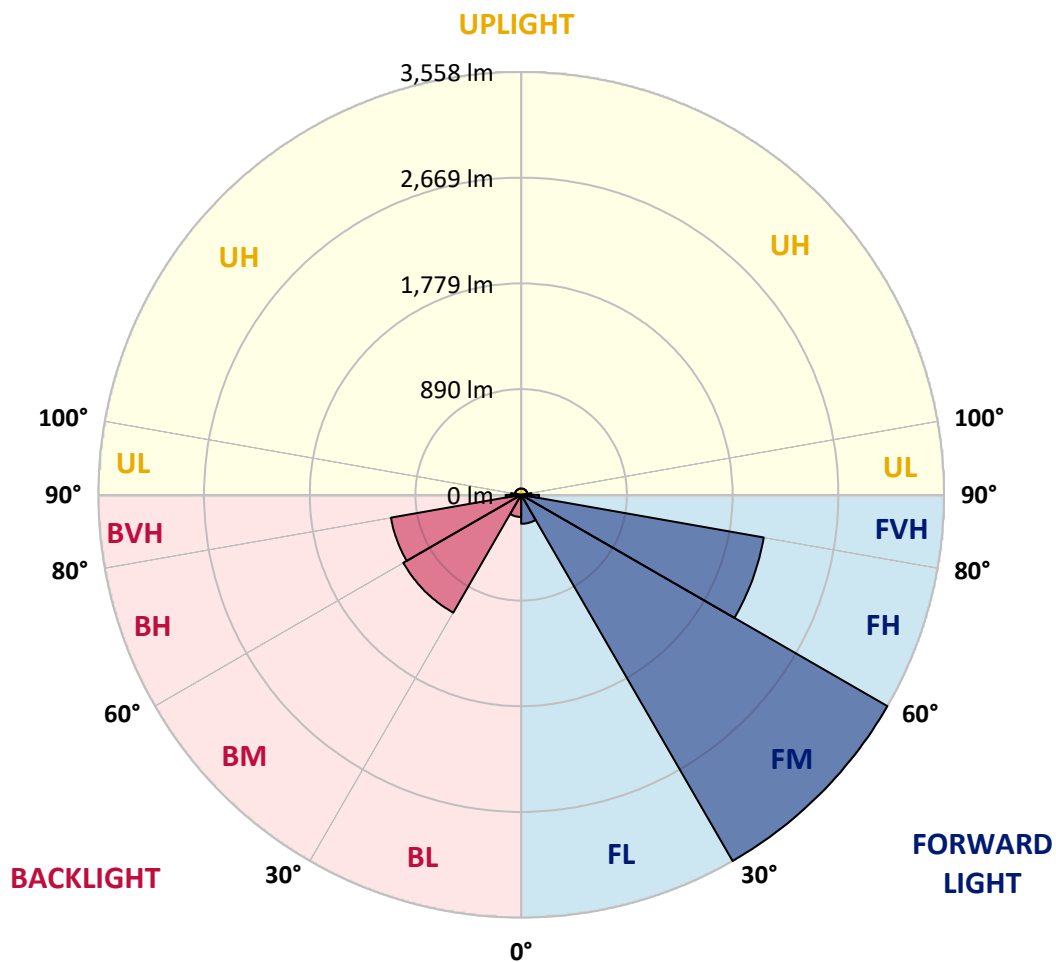
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-CL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.7	2.8			
FM (30°-60°)	3558.1	40.9			
FH (60°-80°)	2072.7	23.8			G2/5000
FVH (80°-90°)	150.1	1.7			G2/225
BL (0°-30°)	186.5	2.1	B1/500		
BM (30°-60°)	1145.6	13.2	B2/2500		
BH (60°-80°)	1112.4	12.8	B3/2500		G3/2500
BVH (80°-90°)	130.5	1.5			G2/225
UL (90°-100°)	85.6	1.0		U3/500	
UH (100°-180°)	53.3	0.6		U3/500	

**BUG Rating: B3-U3-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	10.2	10.2	10.2	11.3	10.2	9.2	8.2	6.1	5.1	3.1	3.1
5°	134.0	134.0	133.0	128.9	39.9	20.5	13.3	8.2	8.2	5.1	3.1
7.5°	150.4	149.4	149.4	145.3	144.2	133.0	67.5	13.3	12.3	7.2	4.1
10°	166.7	162.6	160.6	157.5	158.6	149.4	139.1	65.5	37.8	14.3	11.3
12.5°	308.9	306.9	297.7	250.6	173.9	159.6	156.5	130.9	126.8	109.5	127.9
15°	341.7	335.5	329.4	328.4	311.0	194.4	246.5	322.2	325.3	250.6	271.1
17.5°	399.0	388.7	368.3	352.9	343.7	399.0	367.2	356.0	359.1	306.9	305.9
20°	604.6	603.5	593.3	523.8	392.8	493.1	474.6	407.1	405.1	554.4	541.1
22.5°	713.0	695.6	682.3	659.8	675.1	540.1	576.9	593.3	606.6	636.3	608.7
25°	1072.1	984.1	940.1	764.1	804.0	683.3	760.1	695.6	689.5	711.0	766.2
27.5°	1236.8	1242.0	1207.2	1144.7	928.8	958.5	848.0	974.9	966.7	984.1	944.2
30°	1647.1	1619.4	1430.2	1368.8	1201.0	1092.5	1169.3	1096.6	1073.1	1052.6	1043.4
32.5°	2030.7	2029.6	1978.5	1724.8	1512.0	1278.8	1329.9	1218.4	1225.6	1358.6	1391.3
35°	2627.0	2588.2	2281.3	2126.8	1806.6	1632.7	1493.6	1584.7	1572.4	1554.0	1567.3
37.5°	3316.5	3267.4	3006.6	2523.7	2190.2	1873.1	1855.7	1790.3	1745.3	1765.7	1779.0
40°	3720.7	3679.8	3451.5	3041.3	2556.5	2292.5	2122.7	2025.5	1970.3	2051.1	2048.0
42.5°	4008.1	3972.3	3841.4	3417.8	3074.1	2792.8	2439.8	2300.7	2243.4	2367.2	2319.1
45°	4154.4	4092.0	4076.7	3757.5	3526.3	3400.4	2878.7	2638.3	2566.7	2698.6	2641.4
47.5°	4079.7	4011.2	4070.5	3868.0	3933.5	3928.3	3423.9	3031.1	2984.0	3094.5	3008.6
50°	3733.0	3693.1	3820.9	3848.5	4142.1	4355.9	4030.6	3447.4	3506.9	3453.6	3395.3
52.5°	3162.0	3145.7	3350.3	3580.5	4110.4	4636.2	4589.2	3924.2	4057.2	3819.9	3742.2
55°	2555.4	2558.5	2781.5	3053.6	3780.0	4676.1	5075.1	4493.0	4606.6	4189.2	4080.8
57.5°	1866.0	1947.8	2202.5	2433.7	3151.8	4414.2	5375.8	5061.8	5155.9	4570.7	4389.7
60°	1210.3	1239.9	1546.8	1914.0	2324.2	3620.4	5492.4	5582.4	5655.1	4966.6	4684.3
62.5°	798.9	802.0	928.8	1352.4	1607.2	2526.8	5208.0	6012.2	6081.7	5271.5	4934.9
64°	636.3	635.3	709.9	1038.3	1275.7	1870.1	4763.1	6111.4	6176.9	5403.4	5029.0
65°	561.6	560.6	614.8	834.7	1090.5	1494.6	4319.1	6075.6	6139.0	5462.8	5054.6
67.5°	476.7	478.7	500.2	573.9	789.7	899.2	2642.4	5567.1	5619.3	5416.7	4965.6
70°	439.9	441.9	467.5	481.8	623.0	668.0	1148.8	4547.2	4607.6	5207.0	4761.0
72.5°	387.7	390.8	424.5	461.4	494.1	554.4	731.4	3129.3	3302.2	4515.5	4485.8
75°	324.3	327.3	359.1	407.1	430.7	452.1	633.2	1660.4	1875.2	3398.3	3997.9
77.5°	264.9	267.0	293.6	326.3	391.8	350.9	554.4	849.0	900.2	2150.3	2956.4
80°	195.4	197.4	226.1	261.9	303.8	305.9	457.3	611.7	614.8	1176.5	1595.9
82.5°	134.0	135.0	163.7	184.1	214.8	283.4	366.2	504.3	529.9	698.7	733.5
85°	92.1	93.1	110.5	117.6	135.0	156.5	264.9	395.9	434.8	501.2	439.9
87.5°	44.0	46.0	48.1	51.1	53.2	55.2	113.5	291.5	306.9	334.5	347.8
90°	36.8	36.8	28.6	27.6	31.7	32.7	52.2	248.6	243.5	320.2	345.8
92.5°	36.8	36.8	26.6	25.6	28.6	27.6	37.8	204.6	198.5	315.1	341.7
95°	31.7	32.7	21.5	20.5	24.6	22.5	29.7	119.7	126.8	222.0	252.7
97.5°	26.6	26.6	16.4	16.4	17.4	16.4	19.4	44.0	49.1	94.1	111.5
100°	19.4	20.5	10.2	11.3	11.3	10.2	10.2	18.4	20.5	25.6	24.6
102.5°	16.4	18.4	7.2	8.2	6.1	6.1	5.1	8.2	8.2	13.3	19.4
105°	12.3	14.3	5.1	5.1	4.1	4.1	2.0	6.1	6.1	11.3	20.5
107.5°	7.2	8.2	3.1	3.1	3.1	4.1	2.0	4.1	5.1	9.2	17.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	3.1	3.1	1.0	2.0	1.0	3.1	2.0	4.1	5.1	4.1	9.2
112.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1	3.1	2.0	5.1
115°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	1.0	2.0	5.1
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	5.1
120°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	5.1
122.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	4.1
125°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.1
127.5°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1
130°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1
132.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
135°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.1	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	4.1	4.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	1.0
147.5°	5.1	5.1	4.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0
150°	4.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
152.5°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	3.1	4.1	4.1	5.1	5.1	6.1	6.1	6.1	6.1	5.1	5.1
5°	3.1	4.1	4.1	5.1	6.1	8.2	9.2	11.3	11.3	12.3	12.3
7.5°	4.1	4.1	5.1	6.1	9.2	15.3	46.0	146.3	151.4	164.7	165.7
10°	10.2	11.3	11.3	12.3	29.7	150.4	168.8	175.9	185.2	186.2	185.2
12.5°	135.0	129.9	124.8	38.9	148.3	181.1	186.2	196.4	201.5	216.9	216.9
15°	273.1	273.1	263.9	290.5	262.9	201.5	216.9	340.6	352.9	362.1	357.0
17.5°	310.0	310.0	303.8	368.3	395.9	319.2	348.8	375.4	383.6	385.7	384.6
20°	557.5	551.4	497.2	452.1	413.3	506.4	427.6	386.7	460.3	533.0	537.0
22.5°	606.6	598.4	585.1	593.3	543.2	521.7	490.0	514.5	530.9	534.0	535.0
25°	765.2	760.1	660.8	632.2	682.3	582.1	589.2	504.3	513.5	524.8	523.8
27.5°	948.3	931.9	881.8	757.0	714.0	686.4	556.5	533.0	589.2	592.3	590.2
30°	1052.6	1006.6	914.5	935.0	771.3	656.7	552.4	558.5	534.0	535.0	537.0
32.5°	1403.6	1348.4	1229.7	1087.4	823.5	617.9	535.0	501.2	541.1	548.3	551.4
35°	1534.5	1485.4	1383.1	1287.0	838.8	589.2	475.7	491.0	492.0	494.1	496.1
37.5°	1716.6	1648.1	1563.2	1348.4	833.7	518.6	463.4	465.4	498.2	504.3	507.4
40°	1940.6	1853.7	1758.6	1376.0	751.9	492.0	453.2	468.5	479.8	476.7	478.7
42.5°	2205.6	2087.9	1955.0	1343.2	637.3	479.8	453.2	463.4	465.4	456.2	456.2
45°	2510.4	2379.5	2121.7	1306.4	549.3	483.9	463.4	457.3	447.0	433.7	430.7
47.5°	2843.9	2691.5	2275.1	1234.8	487.9	480.8	469.5	447.0	435.8	424.5	424.5
50°	3200.9	3040.3	2406.1	1124.2	459.3	475.7	466.5	453.2	440.9	420.4	419.4
52.5°	3542.7	3411.6	2568.7	973.8	431.7	479.8	490.0	460.3	442.9	415.3	415.3
55°	3873.1	3797.4	2715.0	855.2	420.4	467.5	503.3	477.7	440.9	419.4	420.4
57.5°	4202.5	4193.3	2882.8	775.4	407.1	460.3	520.7	491.0	460.3	438.8	438.8
60°	4576.9	4618.8	3098.6	686.4	405.1	452.1	527.8	513.5	477.7	473.6	474.6
62.5°	4899.1	5008.6	3263.3	583.1	391.8	446.0	540.1	535.0	499.2	495.1	501.2
64°	5057.7	5179.4	3327.8	518.6	388.7	450.1	545.2	556.5	522.7	526.8	526.8
65°	5115.0	5234.6	3346.2	475.7	385.7	452.1	546.3	563.6	527.8	526.8	526.8
67.5°	5117.0	5209.1	3281.7	408.2	372.4	451.1	551.4	583.1	548.3	571.8	562.6
70°	4996.3	4876.6	3032.1	361.1	370.3	452.1	547.3	572.9	542.2	595.4	590.2
72.5°	4663.8	4234.2	2409.2	318.1	374.4	446.0	525.8	546.3	523.8	601.5	596.4
75°	3940.6	3300.1	1483.4	297.7	369.3	424.5	500.2	497.2	485.9	535.0	531.9
77.5°	2707.9	2171.8	709.9	290.5	362.1	394.9	444.0	438.8	426.6	447.0	440.9
80°	1401.5	1147.8	428.6	266.0	336.6	342.7	362.1	366.2	352.9	358.0	349.8
82.5°	662.9	605.6	360.1	242.4	288.5	253.7	281.3	294.6	271.1	272.1	243.5
85°	414.3	422.5	296.7	188.2	194.4	154.5	195.4	209.7	180.0	153.4	146.3
87.5°	343.7	359.1	218.9	105.4	90.0	78.8	110.5	115.6	82.9	69.6	64.4
90°	355.0	366.2	215.8	83.9	71.6	59.3	80.8	71.6	51.1	45.0	40.9
92.5°	351.9	357.0	213.8	80.8	67.5	54.2	68.5	55.2	39.9	34.8	31.7
95°	264.9	284.4	172.9	78.8	59.3	44.0	51.1	43.0	27.6	24.6	22.5
97.5°	109.5	128.9	102.3	74.7	46.0	32.7	33.8	29.7	16.4	14.3	13.3
100°	21.5	33.8	54.2	54.2	22.5	17.4	17.4	16.4	8.2	7.2	6.1
102.5°	21.5	20.5	24.6	29.7	10.2	5.1	6.1	8.2	5.1	7.2	7.2
105°	22.5	21.5	13.3	8.2	6.1	3.1	2.0	2.0	4.1	8.2	9.2
107.5°	20.5	20.5	9.2	6.1	5.1	4.1	1.0	1.0	3.1	9.2	10.2



REPORT NUMBER: P254750

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-CL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.2	11.3	7.2	5.1	5.1	4.1	1.0	0.0	3.1	10.2	11.3
112.5°	6.1	6.1	6.1	4.1	3.1	3.1	1.0	0.0	3.1	11.3	12.3
115°	6.1	6.1	5.1	4.1	3.1	2.0	0.0	0.0	3.1	12.3	13.3
117.5°	6.1	6.1	5.1	3.1	2.0	1.0	0.0	0.0	3.1	12.3	13.3
120°	6.1	6.1	5.1	3.1	2.0	1.0	0.0	0.0	3.1	11.3	12.3
122.5°	6.1	6.1	5.1	3.1	2.0	1.0	0.0	0.0	3.1	9.2	10.2
125°	5.1	5.1	4.1	3.1	2.0	1.0	0.0	0.0	2.0	8.2	8.2
127.5°	4.1	5.1	4.1	3.1	2.0	1.0	0.0	0.0	2.0	6.1	7.2
130°	4.1	4.1	3.1	3.1	2.0	1.0	0.0	0.0	1.0	5.1	6.1
132.5°	3.1	3.1	2.0	2.0	2.0	1.0	0.0	0.0	0.0	2.0	3.1
135°	1.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.0	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
145°	1.0	2.0	2.0	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.0	2.0	2.0	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	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)