

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: P254417

Luminaire Tested: **LXF.LXT-AF24-100-D-U-SL3-A-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)  
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-SL3-A-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7729 lumens  
Efficiency: N/A  
Efficacy: 80.5 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: B2 - U3 - G3

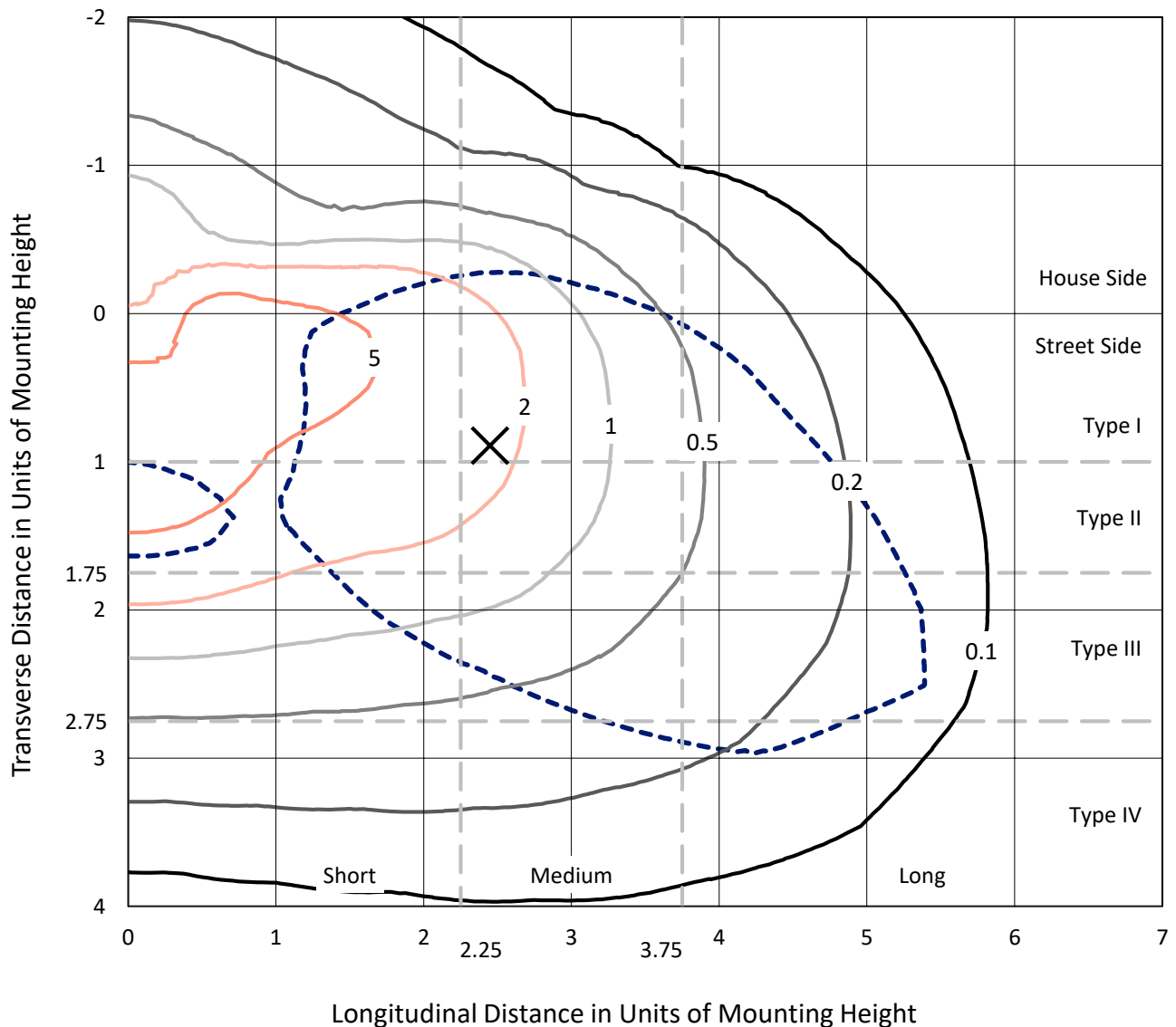
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

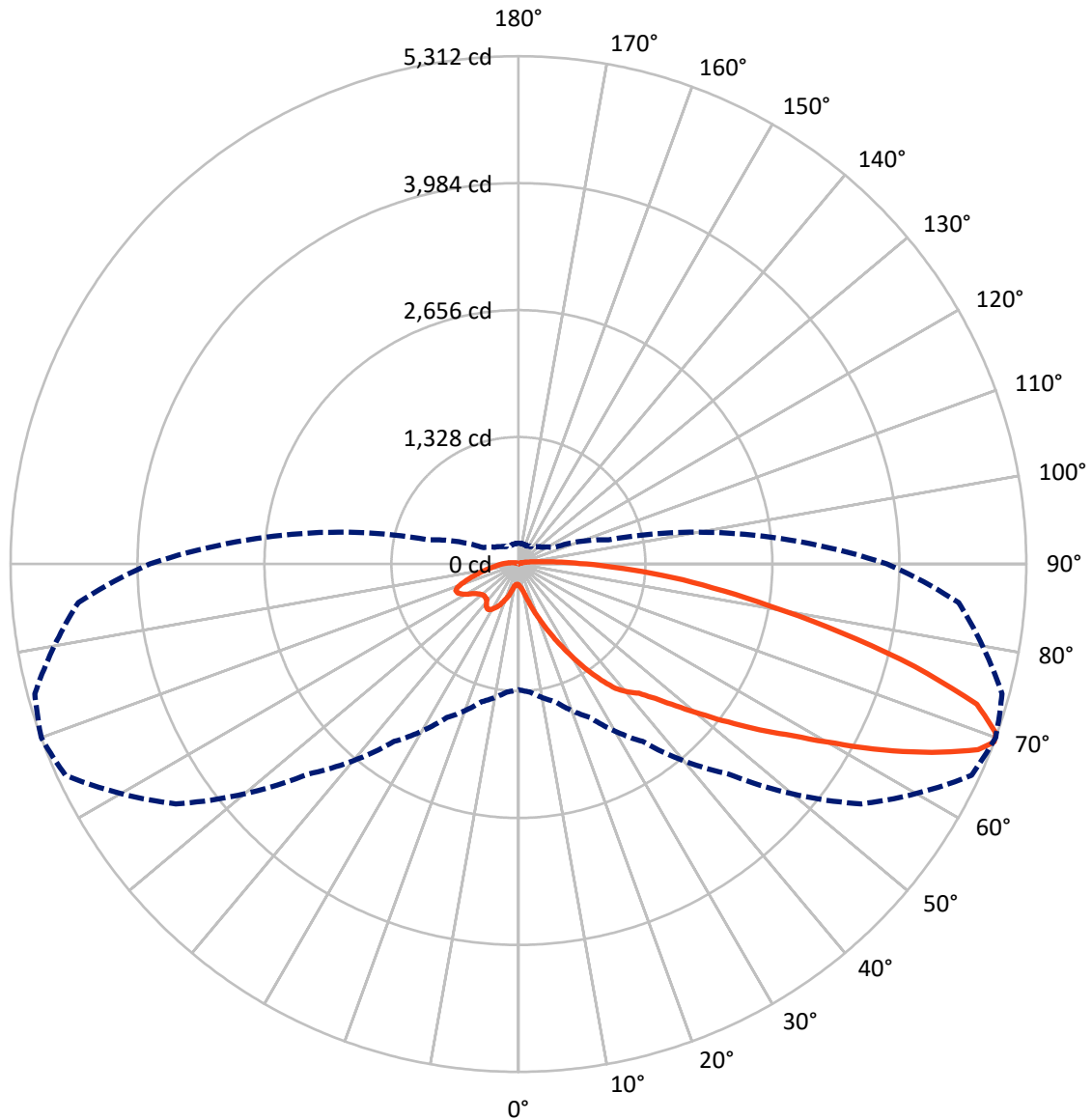


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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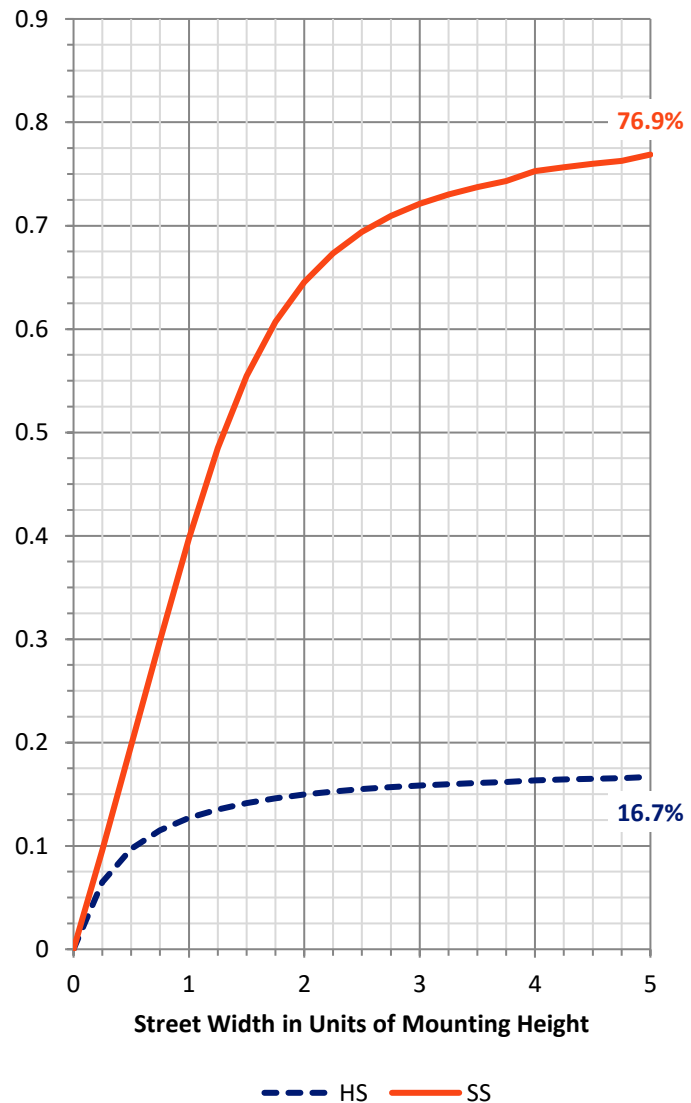
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1344.4	106.2	1450.5
	% Fixture	17.4	1.4	18.8
<b>Street Side</b>	Lumens	6103.6	174.9	6278.5
	% Fixture	79.0	2.3	81.2
<b>Total</b>	Lumens	7448.0	281.0	7729.0
	% Fixture	96.4	3.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.9	0.3
10°-20°	99.3	1.3
20°-30°	276.1	3.6
30°-40°	583.3	7.5
40°-50°	978.6	12.7
50°-60°	1475.4	19.1
60°-70°	1919.8	24.8
70°-80°	1501.2	19.4
80°-90°	591.4	7.7
90°-100°	175.4	2.3
100°-110°	57.4	0.7
110°-120°	24.7	0.3
120°-130°	13.3	0.2
130°-140°	7.1	0.1
140°-150°	2.5	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7448.0	96.4
0°-180°	7729.0	100.0

**Coefficient of Utilization**



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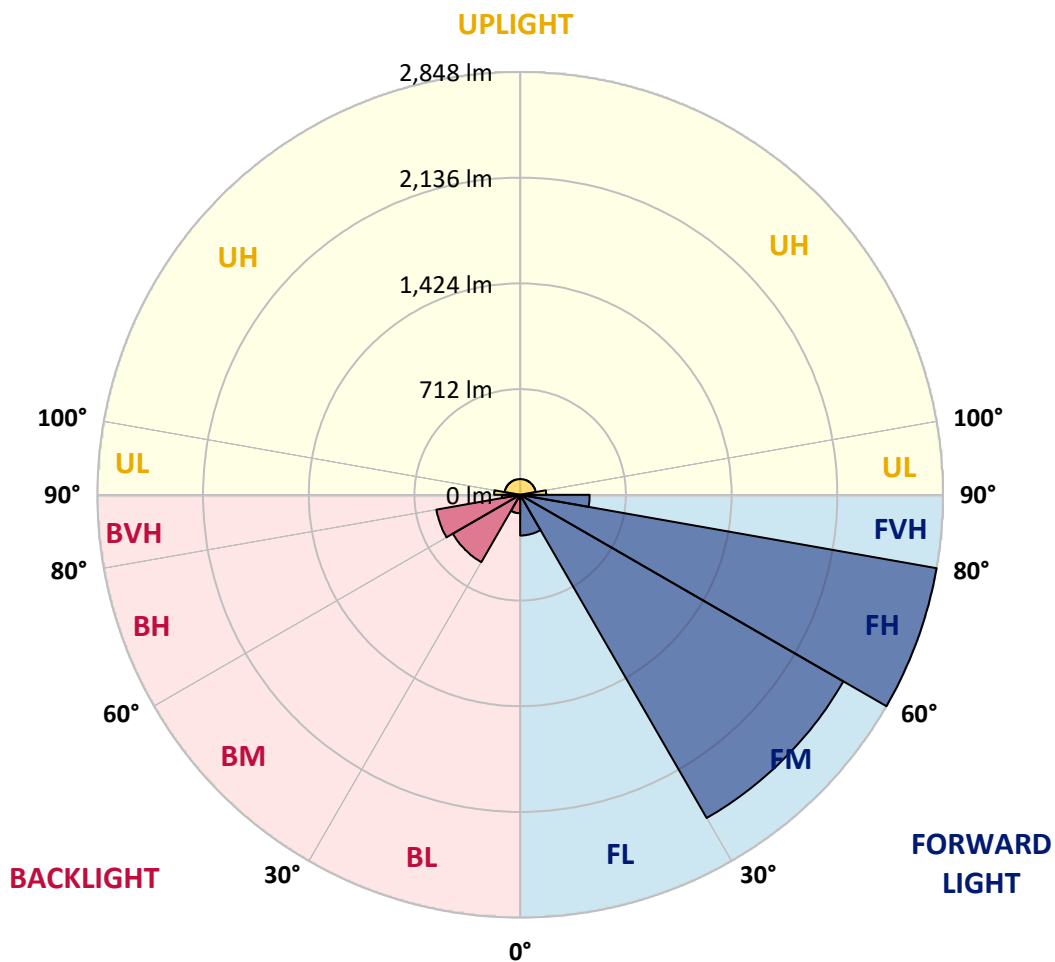
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-A-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.0	3.5			
FM	(30°-60°)	2513.7	32.5			
FH	(60°-80°)	2848.1	36.8			G2/5000
FVH	(80°-90°)	467.8	6.1			G3/500
BL	(0°-30°)	124.2	1.6	B1/500		
BM	(30°-60°)	523.7	6.8	B1/1000		
BH	(60°-80°)	572.9	7.4	B2/1000		G2/1000
BVH	(80°-90°)	123.5	1.6			G2/225
UL	(90°-100°)	175.4	2.3		U3/500	
UH	(100°-180°)	106.2	1.4		U3/500	

**BUG Rating: B2-U3-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4
2.5°	246.6	246.6	247.6	246.6	245.7	241.8	237.9	233.0	231.2	229.2	224.4
5°	274.7	274.7	273.7	271.7	269.9	263.1	257.3	249.5	245.7	241.8	233.0
7.5°	308.5	307.6	306.6	302.7	298.9	290.2	281.5	271.7	265.9	261.1	249.5
10°	349.2	348.2	347.2	340.5	334.7	324.9	316.3	303.7	298.9	292.0	275.7
12.5°	401.4	404.3	398.5	387.9	380.1	366.6	360.8	352.1	346.3	343.4	325.9
15°	467.2	469.0	461.4	443.9	433.3	419.8	421.7	422.7	419.8	419.8	398.5
17.5°	546.4	542.6	536.8	511.7	495.2	489.4	498.1	506.9	508.7	511.7	489.4
20°	646.0	648.0	630.7	593.9	567.7	569.7	580.2	596.8	604.5	611.3	588.1
22.5°	782.4	767.0	746.7	694.5	658.7	650.9	667.3	699.3	711.9	729.3	707.0
25°	928.4	913.0	877.3	817.3	763.0	739.9	767.0	822.0	843.4	872.4	853.1
27.5°	1084.2	1071.7	1017.5	953.7	880.2	839.5	875.2	949.8	983.7	1020.4	999.0
30°	1251.6	1237.1	1173.2	1097.7	1004.8	953.7	981.7	1089.1	1145.1	1195.4	1185.8
32.5°	1450.8	1431.4	1353.0	1257.3	1135.4	1074.6	1104.5	1250.6	1321.2	1386.0	1372.4
35°	1673.2	1663.6	1559.1	1437.2	1287.3	1201.2	1242.9	1401.5	1490.4	1559.1	1540.8
37.5°	1928.5	1917.0	1798.0	1636.4	1445.9	1337.7	1368.6	1546.6	1650.1	1722.6	1681.9
40°	2166.5	2154.9	2036.9	1847.3	1611.3	1480.8	1506.9	1665.5	1759.3	1818.3	1743.9
42.5°	2420.8	2398.6	2267.1	2048.5	1787.4	1632.7	1626.8	1756.5	1846.4	1922.8	1845.4
45°	2645.2	2639.4	2498.2	2247.8	1964.4	1781.6	1743.9	1888.0	2005.9	2108.4	2029.2
47.5°	2786.4	2778.7	2675.2	2425.7	2119.1	1926.7	1899.6	2075.6	2213.9	2325.1	2233.3
50°	2861.9	2859.0	2785.4	2561.1	2273.9	2086.2	2105.5	2304.9	2460.5	2599.9	2501.2
52.5°	2894.9	2894.9	2837.7	2657.8	2411.3	2269.0	2341.5	2569.8	2744.9	2894.9	2763.2
55°	2890.9	2891.9	2832.9	2681.0	2520.5	2460.5	2610.4	2883.2	3060.2	3221.7	3067.9
57.5°	2769.0	2776.9	2764.3	2665.6	2579.5	2654.9	2920.0	3219.8	3386.2	3538.9	3366.9
60°	2476.1	2496.3	2540.9	2560.2	2593.0	2839.6	3242.0	3599.9	3805.8	3992.6	3851.3
62.5°	2192.7	2210.0	2271.9	2356.0	2556.2	2979.9	3599.9	4121.2	4285.5	4464.6	4202.4
65°	1848.3	1875.3	1996.2	2155.9	2467.3	3078.6	3994.5	4609.6	4750.8	4836.9	4512.0
67.5°	1502.0	1527.2	1672.2	1926.7	2351.3	3135.6	4285.5	5044.8	5184.2	5192.9	4710.1
69°	1314.4	1342.5	1491.4	1771.8	2265.2	3104.7	4374.6	5228.6	5311.7	5236.4	4621.2
70°	1213.9	1213.9	1379.2	1665.5	2189.7	3047.6	4389.1	5242.2	5296.4	5185.1	4527.3
72.5°	880.2	889.8	1063.0	1396.7	1948.8	2817.4	4146.3	4982.0	5013.0	4714.1	3900.7
75°	603.5	613.2	766.0	1085.2	1637.5	2451.8	3657.9	4308.8	4281.8	3952.9	3154.0
77.5°	417.8	424.6	540.7	791.1	1295.0	2029.2	3048.6	3522.5	3455.8	3148.2	2359.9
80°	293.1	299.8	388.9	588.1	982.7	1596.9	2417.1	2759.4	2662.6	2389.0	1733.2
82.5°	206.1	211.9	285.2	444.9	744.7	1242.9	1906.3	2146.2	2050.5	1807.7	1239.0
85°	147.1	150.9	206.9	338.4	570.7	926.5	1446.9	1608.4	1510.7	1286.3	823.0
87.5°	106.4	110.3	152.9	255.3	442.0	720.6	1069.7	1138.4	1002.0	814.4	520.3
90°	80.3	83.1	115.0	191.5	344.2	529.1	766.0	741.9	642.2	513.6	347.2
92.5°	60.0	62.0	88.1	145.1	264.1	411.1	532.0	483.6	400.4	324.9	237.0
95°	44.5	46.4	66.7	109.3	195.3	295.0	347.2	298.9	249.5	206.1	161.4
97.5°	33.9	35.8	52.2	83.1	141.2	207.9	224.4	190.5	165.4	141.2	115.0
100°	27.1	28.1	40.7	63.8	101.5	142.1	154.7	132.5	116.1	103.5	87.1
102.5°	21.3	23.2	32.9	50.3	77.3	105.4	112.2	96.7	86.1	77.3	68.8
105°	18.3	19.3	27.1	40.7	60.9	79.3	85.1	72.5	63.8	58.0	53.2
107.5°	16.4	16.4	23.2	33.9	49.2	62.9	65.8	54.2	47.4	43.4	40.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	14.5	14.5	20.3	29.1	41.6	52.2	51.3	40.7	35.8	31.9	31.9
112.5°	13.5	13.5	17.4	26.1	35.8	43.4	40.7	31.9	28.1	24.1	26.1
115°	12.6	12.6	16.4	23.2	31.9	36.7	33.9	25.1	21.3	19.3	21.3
117.5°	12.6	12.6	15.6	21.3	29.1	31.9	29.1	21.3	17.4	16.4	18.3
120°	12.6	12.6	15.6	20.3	26.1	28.1	24.1	17.4	15.6	13.5	16.4
122.5°	12.6	12.6	14.5	19.3	24.1	25.1	21.3	15.6	12.6	12.6	14.5
125°	13.5	13.5	15.6	19.3	22.3	22.3	18.3	13.5	11.6	11.6	14.5
127.5°	14.5	14.5	15.6	18.3	20.3	19.3	16.4	12.6	11.6	11.6	13.5
130°	15.6	15.6	16.4	17.4	18.3	16.4	13.5	11.6	10.6	11.6	13.5
132.5°	15.6	15.6	15.6	16.4	16.4	14.5	11.6	9.8	9.8	10.6	12.6
135°	14.5	14.5	14.5	14.5	14.5	11.6	9.8	8.7	8.7	9.8	11.6
137.5°	12.6	12.6	11.6	11.6	11.6	9.8	7.7	6.8	6.8	7.7	9.8
140°	9.8	9.8	9.8	9.8	9.8	7.7	5.8	4.8	5.8	6.8	7.7
142.5°	7.7	7.7	7.7	7.7	7.7	5.8	3.9	4.8	5.8	5.8	6.8
145°	6.8	5.8	5.8	5.8	5.8	3.9	2.9	3.9	4.8	5.8	5.8
147.5°	4.8	4.8	4.8	4.8	3.9	1.9	1.9	3.9	3.9	4.8	5.8
150°	2.9	2.9	2.9	2.9	1.9	1.0	1.9	2.9	3.9	3.9	4.8
152.5°	1.0	1.0	1.9	1.9	1.0	0.0	1.0	1.9	2.9	2.9	3.9
155°	0.0	0.0	1.0	1.9	0.0	0.0	1.0	1.9	1.9	2.9	2.9
157.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.9	1.9	2.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4
2.5°	221.5	219.5	215.7	212.7	208.9	206.1	206.1	203.1	203.1	202.1	201.1
5°	229.2	226.2	216.7	209.9	203.1	197.3	193.4	190.5	187.6	185.7	184.7
7.5°	243.7	237.0	223.4	211.9	200.2	191.5	183.8	178.9	175.1	174.0	172.2
10°	267.9	260.1	238.8	219.5	202.1	187.6	178.0	171.2	167.2	166.4	165.4
12.5°	315.3	303.7	272.7	240.8	207.9	185.7	173.1	172.2	173.1	175.1	176.0
15°	383.9	371.4	324.0	273.7	223.4	188.6	181.8	183.8	186.7	189.6	189.6
17.5°	468.0	446.9	383.0	310.6	242.8	206.1	190.5	192.6	198.3	203.1	203.1
20°	561.9	528.0	438.1	337.5	261.1	217.7	199.3	200.2	208.9	214.7	215.7
22.5°	676.1	624.9	496.1	359.8	271.7	222.5	205.1	206.1	219.5	229.2	230.2
25°	804.7	737.9	562.9	383.9	275.7	220.4	207.9	214.7	236.0	252.4	253.4
27.5°	933.3	841.4	614.1	400.4	272.7	214.7	209.9	224.4	250.5	265.9	267.9
30°	1099.7	984.7	671.2	407.2	263.1	208.9	209.9	228.3	250.5	265.9	266.9
32.5°	1265.1	1108.4	717.7	412.0	252.4	204.1	206.9	223.4	244.7	262.1	263.1
35°	1405.3	1207.1	737.9	402.4	242.8	201.1	202.1	218.6	242.8	264.1	265.1
37.5°	1508.8	1270.9	736.1	379.1	231.2	198.3	199.3	217.7	244.7	267.9	270.9
40°	1543.7	1274.7	699.3	345.3	223.4	197.3	200.2	217.7	242.8	262.1	265.1
42.5°	1624.9	1308.6	674.1	315.3	217.7	199.3	203.1	214.7	233.0	251.6	255.3
45°	1770.0	1400.4	680.9	300.8	216.7	204.1	205.1	211.9	224.4	241.8	246.6
47.5°	1926.7	1494.3	683.9	293.1	221.5	208.9	207.9	208.9	215.7	230.2	235.0
50°	2143.2	1635.5	699.3	292.0	229.2	214.7	210.9	206.9	211.9	229.2	234.1
52.5°	2366.7	1785.4	724.4	297.8	240.8	222.5	214.7	207.9	211.9	227.3	234.1
55°	2616.2	1972.1	761.2	309.5	252.4	231.2	219.5	210.9	210.9	224.4	230.2
57.5°	2891.9	2164.5	809.5	324.9	265.1	240.8	223.4	211.9	209.9	218.6	223.4
60°	3320.4	2487.7	894.7	347.2	277.6	248.6	226.2	212.7	210.9	217.7	220.4
62.5°	3604.7	2712.1	968.1	369.6	289.2	255.3	227.3	212.7	212.7	216.7	218.6
65°	3874.6	2908.4	1017.5	389.7	299.8	259.2	227.3	211.9	212.7	215.7	215.7
67.5°	3965.4	2957.6	1020.4	404.3	306.6	259.2	225.4	210.9	213.7	216.7	215.7
69°	3856.2	2855.2	976.9	405.3	306.6	256.3	223.4	208.9	213.7	216.7	215.7
70°	3752.7	2767.1	940.0	401.4	303.7	253.4	220.4	207.9	212.7	215.7	214.7
72.5°	3169.5	2287.4	796.0	382.1	293.1	243.7	211.9	201.1	207.9	211.9	209.9
75°	2525.3	1802.9	649.0	348.2	274.7	228.3	200.2	190.5	198.3	202.1	199.3
77.5°	1882.1	1334.7	519.4	314.3	254.3	214.7	187.6	177.0	182.8	184.7	181.8
80°	1365.6	969.1	416.9	283.4	236.0	201.1	175.1	163.5	168.3	168.3	164.4
82.5°	965.3	688.7	336.6	252.4	216.7	189.6	164.4	151.9	158.7	157.7	153.8
85°	647.1	477.8	275.7	218.6	194.4	174.0	152.9	143.1	150.9	149.9	146.1
87.5°	428.6	341.4	231.2	189.6	170.2	154.7	139.3	132.5	140.3	138.3	133.6
90°	303.7	258.3	195.3	163.5	146.1	134.4	123.8	119.0	123.8	119.9	115.0
92.5°	218.6	193.4	160.5	137.3	121.9	114.1	107.4	103.5	106.4	100.6	96.7
95°	154.7	142.1	128.6	113.2	101.5	94.8	90.9	88.9	90.9	82.2	79.3
97.5°	113.2	107.4	101.5	93.9	84.1	80.3	77.3	75.4	75.4	66.7	64.8
100°	88.1	85.1	83.1	78.3	70.6	67.7	65.8	64.8	62.9	55.1	53.2
102.5°	70.6	69.6	69.6	64.8	59.0	57.1	55.1	54.2	52.2	45.5	43.4
105°	56.0	56.0	57.1	53.2	49.2	47.4	46.4	44.5	42.5	37.7	37.7
107.5°	44.5	44.5	46.4	43.4	41.6	39.7	38.7	36.7	34.9	31.9	31.9



REPORT NUMBER: P254417

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-A-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	34.9	35.8	38.7	36.7	34.9	33.9	32.9	29.9	28.1	27.1	27.1
112.5°	28.1	29.9	31.9	30.9	29.1	29.1	27.1	25.1	23.2	23.2	23.2
115°	24.1	25.1	27.1	26.1	25.1	24.1	23.2	20.3	19.3	19.3	20.3
117.5°	20.3	21.3	23.2	22.3	21.3	21.3	19.3	17.4	15.6	17.4	17.4
120°	17.4	18.3	19.3	19.3	18.3	18.3	16.4	14.5	12.6	14.5	14.5
122.5°	16.4	16.4	17.4	16.4	16.4	15.6	13.5	11.6	10.6	12.6	12.6
125°	15.6	15.6	15.6	14.5	14.5	13.5	11.6	9.8	8.7	10.6	10.6
127.5°	14.5	14.5	14.5	13.5	11.6	10.6	9.8	7.7	6.8	8.7	8.7
130°	14.5	14.5	12.6	11.6	10.6	8.7	7.7	5.8	5.8	7.7	7.7
132.5°	13.5	12.6	11.6	9.8	8.7	6.8	5.8	4.8	4.8	5.8	6.8
135°	11.6	11.6	9.8	7.7	6.8	4.8	4.8	2.9	3.9	4.8	4.8
137.5°	9.8	9.8	8.7	6.8	4.8	3.9	2.9	1.9	2.9	3.9	3.9
140°	8.7	7.7	6.8	5.8	3.9	1.9	1.9	1.0	1.9	1.9	2.9
142.5°	7.7	7.7	6.8	4.8	2.9	1.9	0.0	1.0	1.0	1.0	1.9
145°	6.8	6.8	5.8	3.9	2.9	1.0	0.0	1.0	1.0	1.0	0.0
147.5°	5.8	5.8	4.8	3.9	1.9	0.0	0.0	0.0	1.0	0.0	0.0
150°	4.8	4.8	3.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.9	3.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.9	2.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	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)