

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: P254306

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T3-A-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-70-D-U-T3-A-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6733.6 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G3

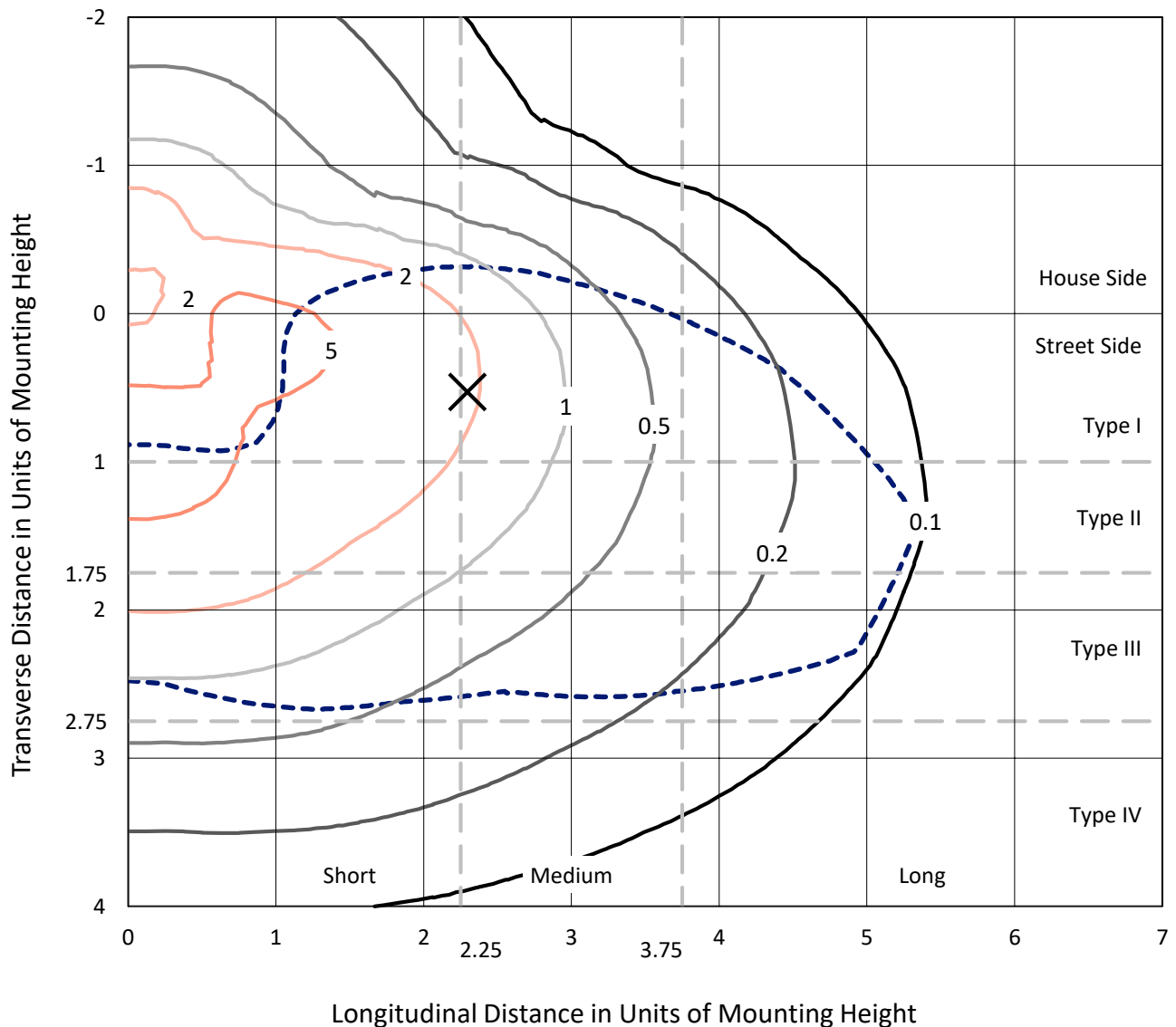
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

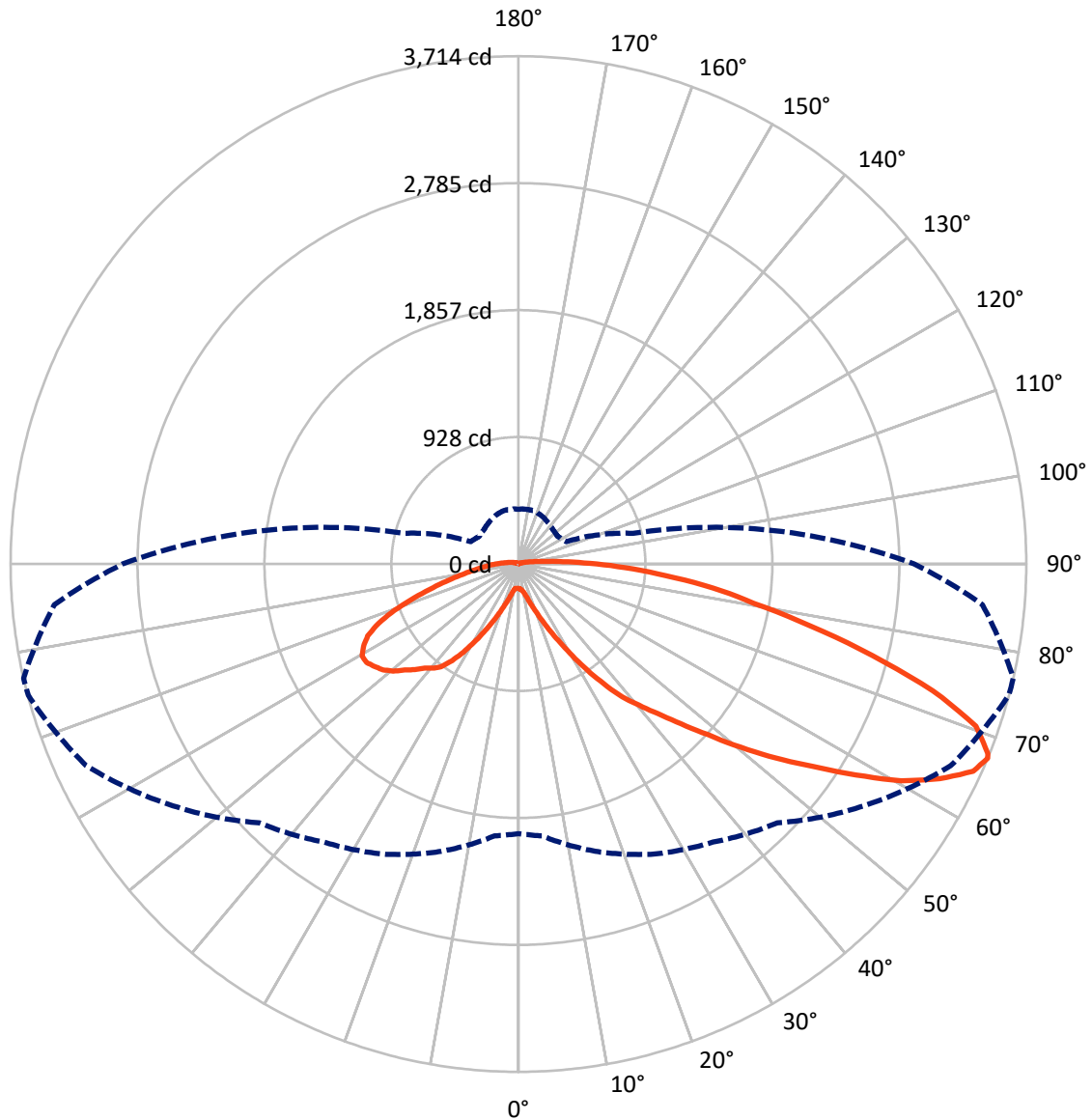
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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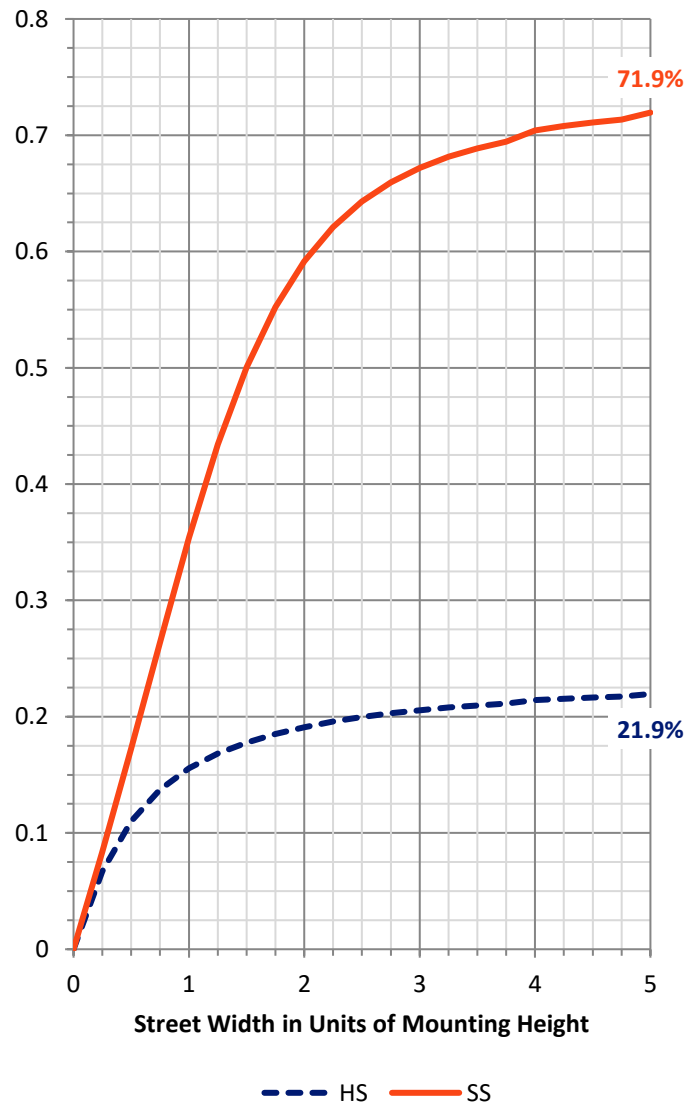
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1544.0	98.2	1642.2
	% Fixture	22.9	1.5	24.4
<b>Street Side</b>	Lumens	4963.7	127.8	5091.5
	% Fixture	73.7	1.9	75.6
<b>Total</b>	Lumens	6507.7	226.0	6733.6
	% Fixture	96.6	3.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.0	0.3
10°-20°	75.6	1.1
20°-30°	221.1	3.3
30°-40°	513.8	7.6
40°-50°	901.3	13.4
50°-60°	1385.1	20.6
60°-70°	1712.9	25.4
70°-80°	1195.8	17.8
80°-90°	484.0	7.2
90°-100°	143.0	2.1
100°-110°	46.2	0.7
110°-120°	19.6	0.3
120°-130°	10.2	0.2
130°-140°	5.2	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6507.7	96.6
0°-180°	6733.6	100.0



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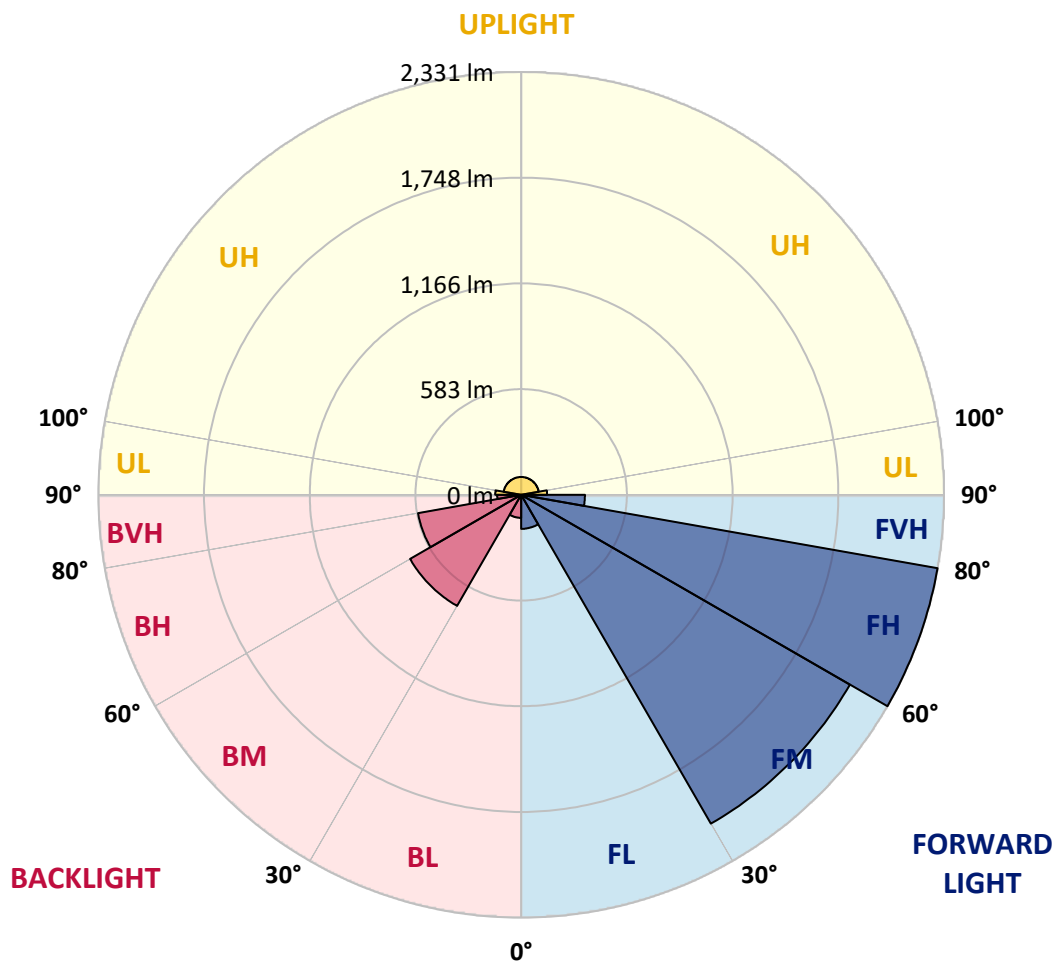
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-A-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.7	2.8			
FM (30°-60°)	2093.1	31.1			
FH (60°-80°)	2331.2	34.6			G2/5000
FVH (80°-90°)	351.6	5.2			G3/500
BL (0°-30°)	127.0	1.9	B1/500		
BM (30°-60°)	707.1	10.5	B1/1000		
BH (60°-80°)	577.4	8.6	B2/1000		G2/1000
BVH (80°-90°)	132.4	2.0			G2/225
UL (90°-100°)	143.0	2.1		U3/500	
UH (100°-180°)	98.2	1.5		U3/500	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
2.5°	190.4	191.3	191.3	191.3	190.4	188.9	186.4	184.7	182.4	181.6	180.0
5°	205.1	205.1	205.1	204.2	202.6	199.4	196.1	192.1	187.3	186.4	183.2
7.5°	221.2	222.2	221.2	219.6	215.6	212.4	207.5	201.8	196.1	194.5	190.4
10°	244.7	244.7	243.2	240.0	234.3	227.8	222.2	215.6	209.9	208.3	203.4
12.5°	280.5	280.5	277.2	268.3	259.4	250.4	243.9	239.1	235.9	233.5	230.2
15°	325.8	326.6	321.8	308.0	296.6	282.9	277.2	276.4	275.6	273.1	269.9
17.5°	381.0	381.0	372.9	354.2	339.6	326.6	321.0	321.0	321.0	321.0	319.4
20°	446.7	447.4	436.9	410.2	394.8	379.3	373.6	374.4	377.7	378.5	378.5
22.5°	530.9	534.2	517.9	481.5	462.8	440.1	436.1	440.1	449.0	451.5	455.5
25°	646.0	641.2	620.0	572.2	544.6	517.2	510.7	522.0	538.9	543.9	552.8
27.5°	766.8	767.5	737.6	679.3	633.0	599.9	596.5	619.3	643.5	650.1	664.7
30°	920.7	922.3	877.1	804.9	736.0	693.8	693.8	731.1	768.4	778.9	802.4
32.5°	1105.6	1103.9	1036.7	949.9	854.3	802.4	804.0	858.3	911.9	924.0	945.8
35°	1320.4	1317.8	1228.7	1114.5	987.2	920.0	927.3	996.1	1065.1	1076.4	1111.2
37.5°	1540.0	1542.4	1443.6	1298.4	1133.9	1045.6	1059.4	1141.2	1225.6	1233.6	1261.2
40°	1738.7	1750.8	1651.0	1488.9	1292.9	1177.7	1193.8	1272.6	1355.3	1358.4	1369.0
42.5°	1929.1	1930.7	1847.2	1674.6	1457.3	1323.5	1325.2	1400.6	1479.3	1493.0	1497.8
45°	2050.7	2067.7	2000.4	1844.8	1623.5	1472.7	1458.9	1534.3	1650.3	1666.4	1666.4
47.5°	2189.2	2207.1	2130.1	1998.1	1783.9	1622.7	1611.3	1707.8	1846.4	1863.4	1857.0
50°	2344.9	2366.8	2310.9	2167.3	1943.7	1782.3	1801.8	1914.4	2082.3	2106.6	2099.3
52.5°	2463.2	2486.7	2452.7	2351.4	2122.8	1968.9	1989.8	2147.2	2332.6	2357.0	2329.5
55°	2507.0	2539.4	2550.0	2498.1	2307.5	2166.6	2231.4	2401.6	2584.0	2609.9	2580.7
57.5°	2505.5	2538.6	2579.2	2571.9	2462.3	2370.1	2464.9	2663.4	2883.9	2909.8	2879.8
60°	2487.5	2526.4	2601.0	2610.8	2549.1	2549.1	2702.3	2975.4	3196.0	3219.5	3133.5
62.5°	2332.6	2381.5	2517.6	2615.5	2597.0	2664.3	2919.5	3234.1	3447.2	3458.6	3297.2
65°	2139.0	2184.4	2334.4	2493.2	2581.6	2704.8	3061.5	3418.0	3640.9	3653.9	3422.1
67°	1971.2	1995.5	2174.7	2340.9	2481.9	2677.2	3083.3	3488.5	3711.4	3713.9	3406.7
67.5°	1911.3	1936.4	2118.7	2296.3	2447.0	2657.7	3072.0	3495.1	3707.3	3702.6	3377.5
70°	1596.8	1611.3	1801.8	2030.4	2199.8	2447.9	2930.9	3369.4	3564.8	3550.2	3178.2
72.5°	1180.1	1192.3	1390.1	1668.1	1868.4	2141.5	2625.4	3102.0	3210.6	3170.8	2736.4
75°	817.8	827.5	981.5	1219.0	1481.7	1770.2	2244.4	2639.9	2720.1	2670.8	2267.9
77.5°	540.7	547.9	667.9	855.2	1096.6	1415.2	1826.2	2181.2	2246.1	2188.5	1821.3
80°	342.8	348.5	437.7	585.2	804.0	1110.4	1466.3	1774.3	1801.8	1747.5	1423.3
82.5°	217.2	222.9	282.9	396.4	577.1	845.3	1153.4	1429.7	1467.1	1434.7	1113.0
85°	139.5	147.5	190.4	271.5	409.2	620.0	898.8	1137.2	1133.1	1079.6	817.0
87.5°	98.9	105.3	137.7	193.7	288.6	439.3	657.3	825.1	815.4	779.8	568.1
90°	73.8	78.6	102.1	141.1	207.5	308.0	455.5	571.4	543.0	521.1	375.3
92.5°	54.3	58.4	76.2	102.9	148.4	215.6	300.7	369.7	340.5	325.0	237.5
95°	39.8	42.2	55.9	75.4	107.8	149.9	197.0	232.6	209.1	198.7	149.9
97.5°	30.8	32.4	42.9	58.4	80.2	107.8	133.0	145.9	133.0	126.4	103.8
100°	25.9	26.8	35.6	46.2	63.3	81.8	94.8	99.7	91.6	87.5	75.4
102.5°	21.9	22.7	29.2	38.1	51.1	64.8	71.3	72.9	65.7	63.3	56.7
105°	18.7	19.4	25.1	32.4	42.9	52.7	55.9	54.3	47.8	46.2	42.9
107.5°	16.2	17.1	21.1	27.6	35.6	43.8	44.6	41.3	35.6	34.1	32.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	14.6	14.6	18.7	23.5	30.8	36.5	36.5	31.5	26.8	25.9	25.9
112.5°	13.0	13.0	16.2	20.2	26.8	30.8	29.9	25.1	20.2	19.4	20.2
115°	11.4	11.4	13.7	18.7	23.5	26.8	25.1	20.2	15.4	15.4	17.1
117.5°	10.5	10.5	13.0	17.1	21.1	23.5	21.1	16.2	13.0	13.0	13.7
120°	9.8	9.8	12.1	15.4	19.4	21.1	18.7	13.7	10.5	10.5	12.1
122.5°	9.8	9.8	11.4	14.6	17.8	18.7	16.2	12.1	9.0	9.8	10.5
125°	9.8	10.5	11.4	13.7	16.2	16.2	13.7	10.5	8.0	8.0	9.8
127.5°	10.5	10.5	11.4	13.0	14.6	14.6	12.1	9.0	8.0	8.0	9.0
130°	11.4	11.4	11.4	12.1	13.0	12.1	10.5	8.0	7.3	7.3	8.0
132.5°	11.4	11.4	11.4	11.4	11.4	10.5	9.0	7.3	6.4	7.3	8.0
135°	10.5	10.5	10.5	10.5	9.8	9.0	7.3	5.7	5.7	5.7	6.4
137.5°	9.8	9.0	9.0	9.0	8.0	7.3	5.7	4.1	4.9	4.9	5.7
140°	8.0	8.0	8.0	7.3	6.4	5.7	4.1	3.3	4.1	4.1	4.9
142.5°	6.4	6.4	6.4	5.7	4.9	4.1	2.4	2.4	3.3	4.1	4.1
145°	4.9	4.9	4.9	4.1	3.3	2.4	1.6	2.4	3.3	3.3	3.3
147.5°	3.3	3.3	3.3	3.3	1.6	0.8	1.6	1.6	2.4	2.4	3.3
150°	1.6	1.6	2.4	1.6	0.8	0.8	0.8	1.6	1.6	2.4	2.4
152.5°	0.8	0.8	1.6	0.8	0.0	0.0	0.0	0.8	1.6	1.6	1.6
155°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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°	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
2.5°	179.0	178.3	176.7	174.3	172.6	171.9	171.9	170.2	170.2	170.2	169.4
5°	182.4	180.0	176.7	173.5	170.2	167.8	166.9	165.3	163.8	163.8	162.9
7.5°	187.3	184.7	179.0	174.3	169.4	166.2	164.6	162.9	161.2	160.5	159.6
10°	200.2	197.0	188.0	180.0	173.5	168.6	166.2	164.6	162.9	162.9	162.1
12.5°	226.9	221.2	209.9	196.1	182.4	175.1	172.6	178.3	180.8	183.2	183.2
15°	266.7	261.0	243.9	223.8	203.4	189.7	193.7	201.8	208.3	212.4	212.4
17.5°	315.3	306.4	285.2	256.1	229.3	219.6	218.1	226.9	236.6	242.3	242.3
20°	372.9	362.3	333.1	293.4	263.5	248.8	245.7	253.7	265.1	273.9	273.9
22.5°	447.4	435.3	392.3	336.4	297.5	277.2	273.1	281.3	297.5	309.6	308.7
25°	544.6	525.2	466.1	388.2	331.5	303.2	299.9	312.9	334.8	351.9	354.2
27.5°	657.3	629.8	541.5	444.1	364.7	325.8	326.6	344.5	371.3	389.8	389.8
30°	784.6	755.4	632.2	499.4	393.2	345.3	348.5	372.0	398.8	417.5	417.5
32.5°	932.1	889.2	727.8	553.6	418.3	359.9	363.1	391.4	418.3	438.4	439.3
35°	1081.2	1022.8	814.6	598.2	439.3	372.0	373.6	406.9	436.1	458.8	461.2
37.5°	1217.4	1142.1	891.5	629.0	449.0	377.7	380.1	418.3	452.4	473.3	473.3
40°	1314.7	1219.9	928.9	636.3	451.5	379.3	386.7	425.6	451.5	461.2	457.1
42.5°	1425.0	1308.2	952.4	624.1	442.5	378.5	389.8	420.6	434.5	435.3	431.2
45°	1578.9	1427.4	995.4	613.6	426.3	377.0	385.8	408.5	412.6	405.3	400.4
47.5°	1757.2	1557.1	1031.0	600.6	415.8	372.9	380.1	393.9	390.7	377.7	373.6
50°	1958.3	1721.6	1075.5	584.4	407.7	367.9	374.4	383.4	379.3	365.6	362.3
52.5°	2155.2	1865.8	1103.9	567.4	400.4	365.6	370.4	381.0	376.1	359.9	355.0
55°	2361.8	2012.5	1110.4	538.2	394.8	365.6	371.3	382.6	377.0	359.9	355.0
57.5°	2605.1	2170.7	1110.4	504.1	385.8	367.2	373.6	385.0	380.1	363.1	359.0
60°	2802.8	2283.3	1086.9	474.1	375.3	367.2	374.4	386.7	385.8	373.6	371.3
62.5°	2912.3	2324.6	1022.8	441.0	366.3	364.7	375.3	390.7	396.4	387.5	385.0
65°	2970.6	2310.9	948.4	407.7	358.3	359.9	375.3	393.2	402.1	397.1	393.9
67°	2894.4	2213.6	866.4	385.0	350.1	355.8	373.6	393.2	405.3	403.6	400.4
67.5°	2856.4	2174.7	842.9	381.0	347.8	355.0	372.9	393.2	405.3	405.3	402.1
70°	2618.8	1955.8	720.6	350.9	332.3	342.8	364.0	389.1	402.8	403.6	402.1
72.5°	2213.6	1608.1	594.9	322.7	312.9	325.0	350.9	377.0	389.8	388.2	386.7
75°	1803.5	1296.9	484.7	295.0	290.2	304.0	327.4	351.9	360.7	356.6	355.0
77.5°	1428.1	1011.5	397.1	268.3	267.4	279.6	298.3	316.1	321.0	313.7	312.9
80°	1097.5	773.2	325.0	246.4	243.9	252.9	265.8	278.1	281.3	273.9	272.4
82.5°	840.5	586.0	269.9	222.2	221.2	226.1	235.0	243.2	248.8	241.6	239.1
85°	607.9	428.8	226.9	196.1	197.0	199.4	205.1	210.8	218.8	216.5	213.2
87.5°	423.9	311.3	193.0	171.9	171.9	173.5	176.7	182.4	193.0	192.1	188.9
90°	288.6	224.5	162.1	149.9	147.5	148.4	150.8	154.0	163.8	162.9	160.5
92.5°	193.0	159.6	131.3	124.0	123.3	124.0	124.0	126.4	131.3	128.9	126.4
95°	128.9	115.0	104.6	100.5	98.9	99.7	99.7	98.2	101.3	97.2	94.8
97.5°	92.5	86.8	84.3	81.1	78.6	79.4	79.4	77.8	78.6	72.9	71.3
100°	70.5	69.0	69.0	65.7	63.3	64.0	64.0	63.3	62.4	55.9	55.0
102.5°	55.9	55.0	55.9	53.5	51.1	52.7	51.9	51.1	49.5	43.8	42.9
105°	43.8	43.8	46.2	43.8	42.2	42.9	42.9	41.3	39.8	34.9	34.9
107.5°	34.1	34.9	37.2	35.6	34.9	35.6	34.9	33.3	30.8	27.6	27.6



REPORT NUMBER: P254306

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-A-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.8	28.4	30.8	29.9	29.2	29.9	28.4	26.8	24.4	22.7	22.7
112.5°	21.9	22.7	25.1	25.1	24.4	25.1	23.5	21.1	19.4	18.7	18.7
115°	17.8	19.4	21.1	21.1	21.1	21.1	19.4	17.1	15.4	15.4	15.4
117.5°	15.4	16.2	17.8	17.8	17.8	17.8	16.2	13.7	12.1	13.0	13.0
120°	13.0	13.7	15.4	15.4	15.4	15.4	13.7	11.4	9.8	10.5	10.5
122.5°	11.4	12.1	13.0	13.7	13.7	13.0	11.4	9.8	8.0	9.0	9.0
125°	10.5	11.4	11.4	12.1	11.4	11.4	9.8	8.0	7.3	8.0	8.0
127.5°	9.8	10.5	10.5	10.5	10.5	9.0	8.0	6.4	5.7	6.4	7.3
130°	9.0	9.8	9.8	9.0	8.0	7.3	6.4	5.7	4.9	5.7	6.4
132.5°	9.0	9.0	9.0	8.0	7.3	5.7	4.9	4.1	4.1	4.9	5.7
135°	7.3	7.3	7.3	6.4	4.9	4.1	3.3	3.3	3.3	4.1	4.1
137.5°	5.7	6.4	5.7	4.9	4.1	3.3	2.4	2.4	2.4	3.3	3.3
140°	4.9	4.9	4.9	4.1	3.3	1.6	0.8	0.8	1.6	1.6	2.4
142.5°	4.1	4.9	4.1	3.3	2.4	0.8	0.0	0.8	0.8	0.8	0.8
145°	4.1	4.1	3.3	2.4	1.6	0.8	0.0	0.0	0.8	0.0	0.0
147.5°	3.3	3.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.4	2.4	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	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)