

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: P254909

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T4W-FL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254909  
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-AF24-70-D-U-T4W-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 930mA 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: 7029.7 lumens  
Efficiency: N/A  
Efficacy: 95.0 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: B2 - U3 - G4

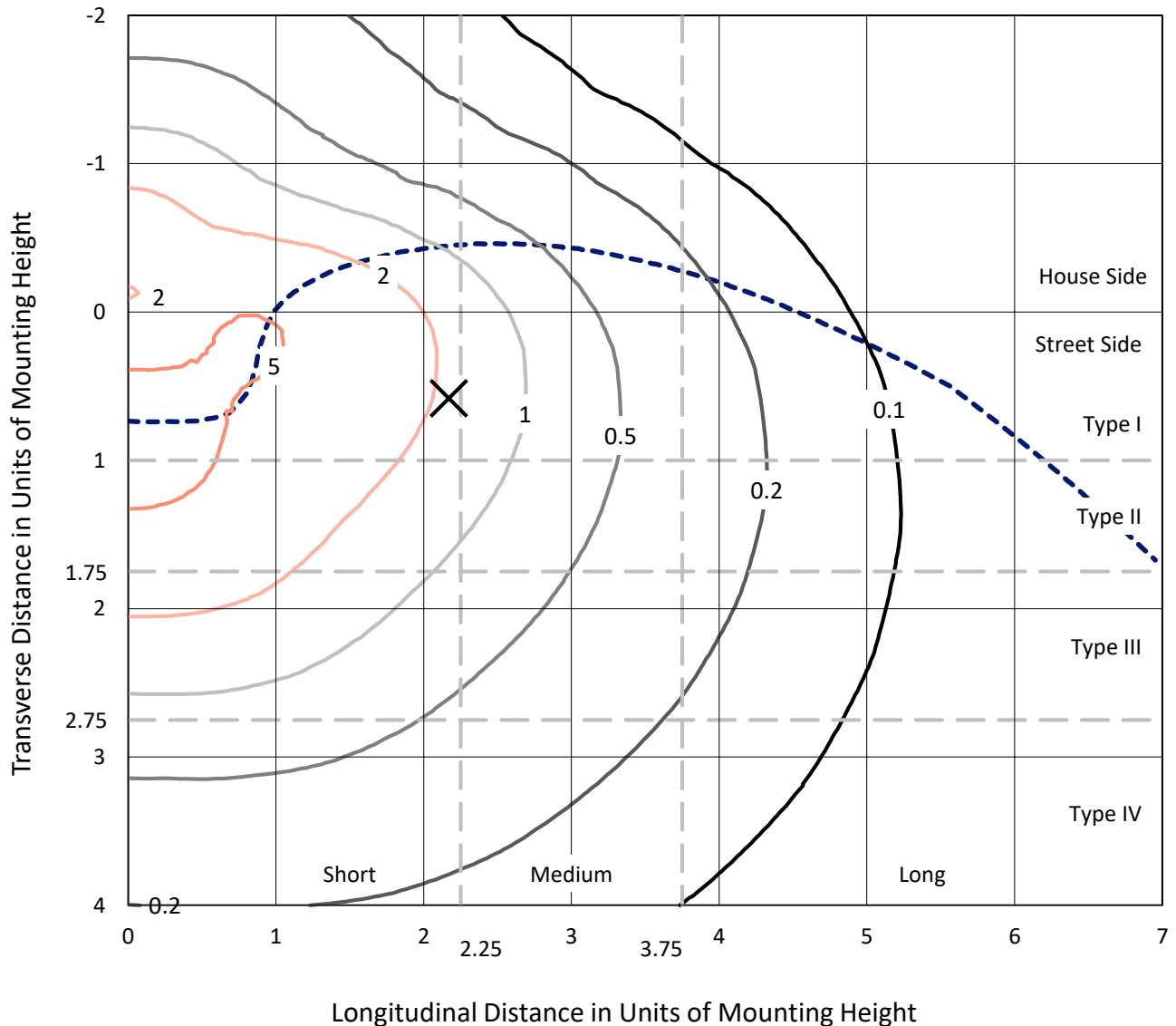
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

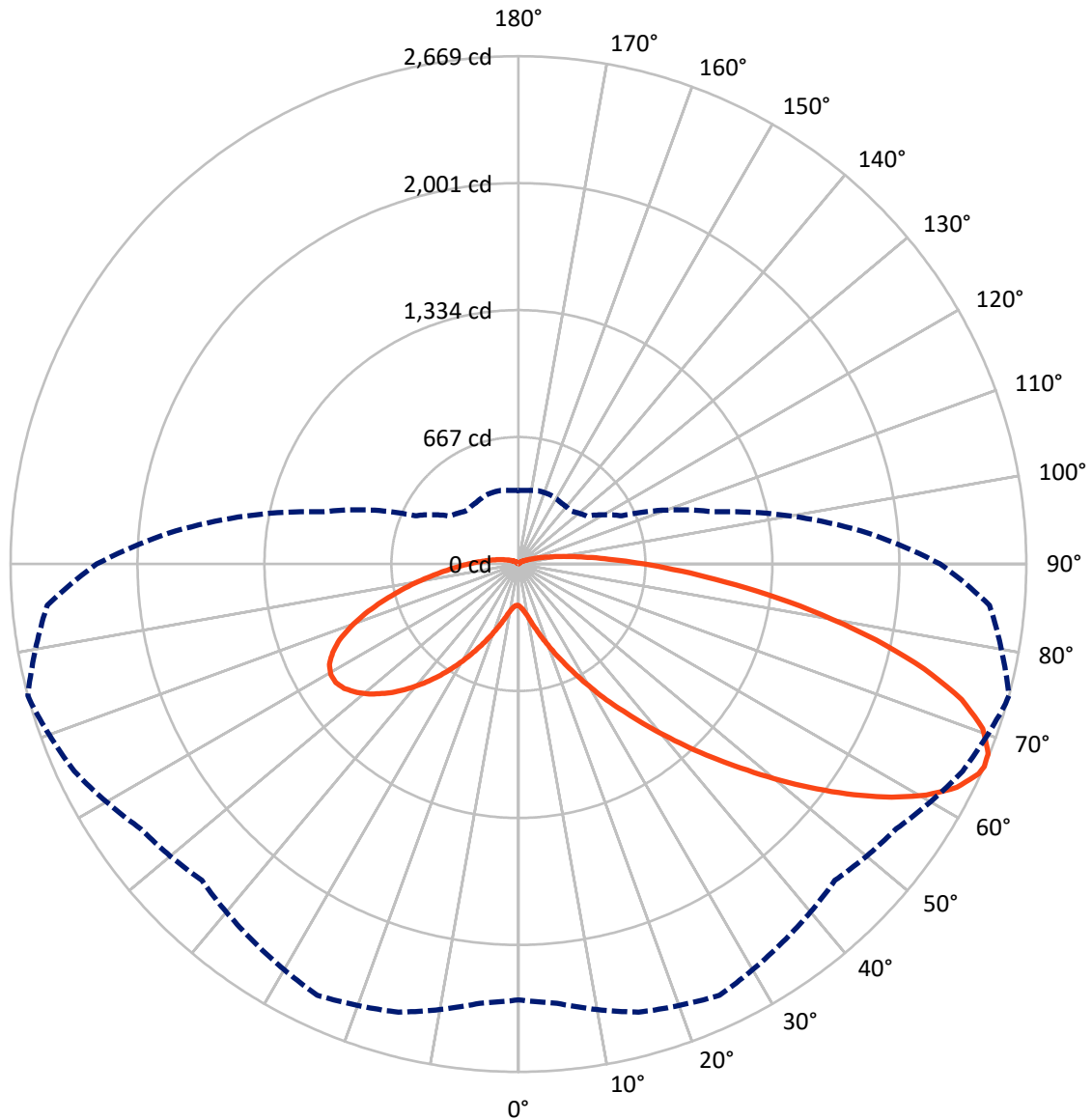
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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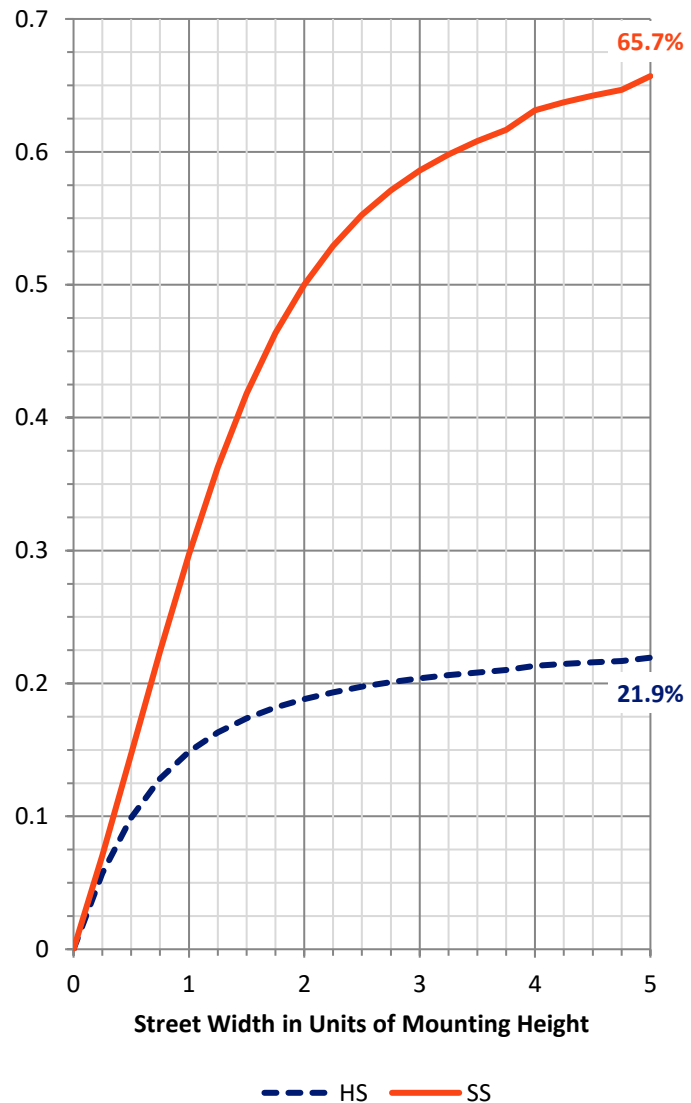
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1629.0	175.5	1804.6
	% Fixture	23.2	2.5	25.7
<b>Street Side</b>	Lumens	4884.7	340.5	5225.2
	% Fixture	69.5	4.8	74.3
<b>Total</b>	Lumens	6513.7	516.1	7029.7
	% Fixture	92.7	7.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.2	0.3
10°-20°	97.4	1.4
20°-30°	246.3	3.5
30°-40°	492.8	7.0
40°-50°	837.9	11.9
50°-60°	1246.8	17.7
60°-70°	1530.9	21.8
70°-80°	1316.6	18.7
80°-90°	721.8	10.3
90°-100°	301.1	4.3
100°-110°	123.0	1.8
110°-120°	54.2	0.8
120°-130°	24.7	0.4
130°-140°	10.2	0.1
140°-150°	2.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6513.7	92.7
0°-180°	7029.7	100.0



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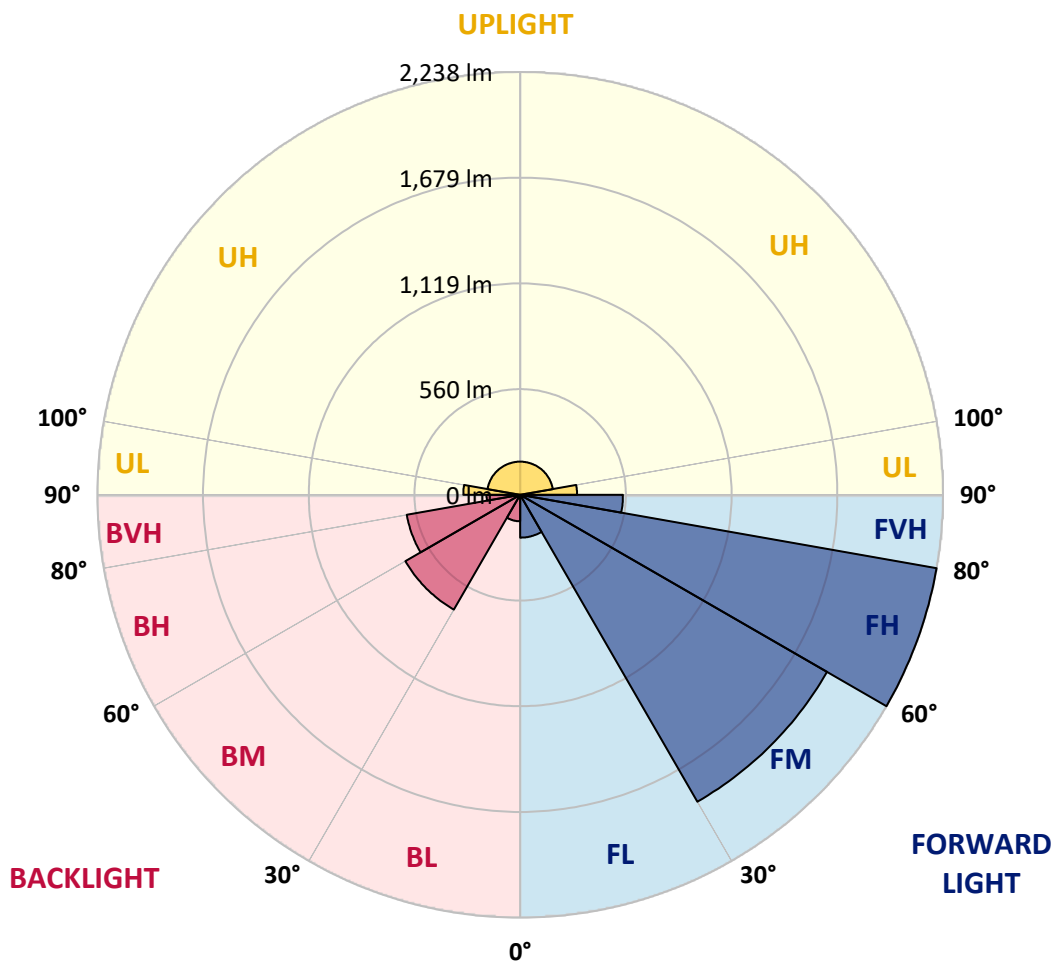
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.8	3.2			
FM	(30°-60°)	1875.8	26.7			
FH	(60°-80°)	2238.2	31.8			G2/5000
FVH	(80°-90°)	543.8	7.7			G4/750
BL	(0°-30°)	140.1	2.0	B1/500		
BM	(30°-60°)	701.7	10.0	B1/1000		
BH	(60°-80°)	609.2	8.7	B2/1000		G2/1000
BVH	(80°-90°)	178.0	2.5			G2/225
UL	(90°-100°)	301.1	4.3		U3/500	
UH	(100°-180°)	175.5	2.5		U3/500	

**BUG Rating: B2-U3-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4
2.5°	241.7	241.7	240.9	240.9	238.3	235.7	234.1	229.8	227.2	227.2	223.7
5°	267.4	267.4	266.6	264.8	261.5	257.2	252.1	246.0	240.9	240.0	234.1
7.5°	299.2	299.2	297.5	294.0	288.9	282.8	276.0	267.4	259.7	258.0	249.4
10°	338.6	338.6	336.0	330.9	324.1	316.3	306.9	294.9	284.6	283.8	271.7
12.5°	388.3	385.8	384.0	375.4	366.0	355.8	344.6	330.0	319.8	319.8	303.4
15°	444.9	444.9	438.0	426.9	414.9	401.2	389.1	374.6	362.6	361.7	342.9
17.5°	507.5	506.6	498.9	485.2	468.9	455.2	439.8	423.5	409.7	409.7	387.5
20°	579.5	577.8	567.4	549.4	529.8	514.3	497.2	478.3	463.7	463.7	438.8
22.5°	661.7	658.4	645.5	620.6	600.9	578.6	558.9	540.0	524.6	526.3	498.1
25°	754.3	750.0	733.8	702.1	673.7	647.2	627.5	607.7	596.6	592.3	569.2
27.5°	858.9	850.4	832.4	792.1	751.8	719.2	698.6	684.0	673.7	670.3	643.7
30°	973.7	965.3	940.4	889.8	836.7	795.4	775.8	764.7	759.4	755.2	728.6
32.5°	1104.9	1095.5	1061.2	997.8	929.2	877.8	858.9	853.8	853.8	850.4	823.8
35°	1247.2	1235.2	1194.1	1114.4	1027.8	966.1	948.1	950.6	951.4	948.9	926.6
37.5°	1399.0	1386.1	1337.2	1242.1	1134.0	1060.4	1042.4	1054.4	1071.5	1062.0	1038.9
40°	1555.0	1542.9	1490.6	1374.9	1245.5	1158.9	1140.9	1164.9	1192.4	1184.7	1158.9
42.5°	1710.1	1705.0	1639.0	1515.5	1364.6	1262.6	1249.8	1286.7	1324.4	1319.2	1291.0
45°	1879.0	1863.5	1799.3	1661.3	1492.4	1382.6	1368.1	1417.8	1469.3	1464.1	1435.8
47.5°	2030.7	2016.1	1955.3	1808.7	1621.0	1501.8	1492.4	1559.3	1624.4	1618.4	1590.1
50°	2158.4	2156.7	2105.3	1953.5	1756.4	1626.1	1625.3	1709.2	1788.9	1787.3	1751.3
52.5°	2281.0	2278.4	2231.3	2094.2	1891.8	1751.3	1758.1	1867.8	1962.9	1962.9	1915.0
55°	2375.3	2374.5	2347.1	2227.9	2025.5	1890.1	1909.8	2030.7	2139.6	2139.6	2091.5
57.5°	2441.3	2440.5	2437.0	2346.1	2154.1	2022.2	2053.0	2191.0	2309.3	2311.9	2248.4
60°	2456.7	2464.5	2498.8	2441.3	2269.0	2142.2	2184.1	2338.5	2460.2	2464.5	2377.8
62.5°	2429.3	2441.3	2510.7	2498.8	2356.5	2250.2	2302.5	2461.0	2578.4	2585.3	2466.1
65°	2338.5	2363.3	2469.6	2509.0	2411.3	2329.1	2398.4	2550.2	2647.9	2657.3	2494.5
66°	2289.6	2316.2	2437.9	2499.6	2423.3	2351.3	2424.2	2575.1	2662.4	2668.5	2485.1
67.5°	2197.0	2223.6	2367.6	2462.8	2423.3	2372.7	2445.6	2592.2	2659.9	2662.4	2451.6
70°	1998.1	2039.3	2200.5	2347.9	2373.6	2361.6	2444.8	2566.5	2597.3	2588.8	2323.8
72.5°	1779.5	1802.6	1979.3	2179.9	2266.4	2289.6	2384.7	2469.6	2449.0	2436.2	2131.8
75°	1492.4	1525.8	1718.7	1947.6	2079.6	2150.8	2252.7	2282.7	2231.3	2203.8	1879.0
77.5°	1246.4	1260.1	1440.1	1675.0	1849.0	1945.9	2041.8	2051.3	1945.0	1921.8	1585.0
80°	990.9	1004.6	1170.1	1395.5	1584.1	1711.8	1795.8	1770.9	1637.2	1614.9	1310.7
82.5°	774.1	792.9	919.7	1135.0	1317.6	1452.1	1516.4	1476.1	1349.3	1317.6	1044.0
85°	594.0	603.4	721.8	906.9	1068.1	1190.6	1243.8	1199.2	1062.9	1038.1	820.3
87.5°	452.6	462.1	562.3	708.1	850.4	954.9	996.0	939.5	828.9	812.6	636.9
90°	345.5	352.3	432.0	557.2	666.9	753.5	781.7	737.2	638.6	624.0	490.3
92.5°	264.8	270.9	332.6	432.0	522.0	595.8	607.7	565.8	489.5	476.6	377.2
95°	203.2	210.0	259.7	337.8	408.1	463.7	472.3	436.3	375.4	365.2	290.6
97.5°	159.5	162.0	204.0	267.4	324.9	363.5	366.9	339.4	287.1	280.3	223.7
100°	127.8	129.4	162.0	211.8	258.9	287.1	288.9	260.5	220.3	215.1	171.4
102.5°	103.7	105.5	130.3	170.6	205.7	228.8	228.0	205.7	170.6	163.8	133.7
105°	85.7	86.5	106.3	138.9	167.2	182.6	181.7	160.3	131.1	126.8	104.5
107.5°	72.0	72.8	87.5	113.1	137.2	150.0	147.4	126.0	102.0	99.4	83.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	60.9	61.7	72.8	94.3	115.7	124.3	120.9	100.2	80.6	77.1	66.9
112.5°	53.2	53.2	61.7	78.9	96.9	104.5	99.4	81.4	63.4	61.7	54.8
115°	46.3	47.2	53.2	66.9	82.2	87.5	82.2	65.2	51.5	49.7	45.4
117.5°	41.1	41.1	46.3	56.6	69.5	72.8	67.7	53.2	42.0	41.1	38.6
120°	36.8	36.8	40.3	48.0	58.3	61.7	56.6	43.7	34.3	33.5	32.5
122.5°	33.5	33.5	35.2	41.1	49.7	51.5	46.3	36.0	29.2	28.3	28.3
125°	30.0	30.0	30.9	35.2	42.0	43.7	38.6	29.2	24.9	24.0	24.0
127.5°	27.4	27.4	27.4	30.9	34.3	36.0	31.7	24.0	20.6	20.6	21.4
130°	24.9	24.9	24.9	25.7	28.3	29.2	25.7	19.7	18.0	18.0	18.0
132.5°	22.3	22.3	21.4	22.3	23.1	23.1	19.7	16.3	15.4	15.4	16.3
135°	19.7	19.7	18.8	18.8	18.8	18.0	15.4	12.9	12.9	12.9	13.7
137.5°	17.2	17.2	16.3	15.4	14.5	12.9	11.2	10.3	10.3	10.3	11.2
140°	14.5	14.5	13.7	12.0	10.3	9.4	7.7	7.7	8.6	8.6	8.6
142.5°	11.2	11.2	10.3	9.4	7.7	6.0	5.1	5.1	6.0	6.0	6.9
145°	8.6	8.6	7.7	6.0	4.3	3.5	2.6	3.5	4.3	4.3	5.1
147.5°	6.0	6.0	5.1	4.3	2.6	0.8	1.7	2.6	3.5	3.5	4.3
150°	3.5	3.5	2.6	1.7	0.0	0.0	0.8	1.7	2.6	2.6	2.6
152.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	1.7	1.7	1.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.7
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	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4
2.5°	222.0	220.3	216.9	214.3	210.8	209.2	207.5	205.7	204.9	203.2	203.2
5°	229.8	227.2	221.2	216.0	210.0	205.7	201.4	198.9	197.1	196.3	196.3
7.5°	244.3	240.0	230.6	222.9	214.3	209.2	204.0	198.9	196.3	195.5	195.5
10°	264.8	259.7	246.8	235.7	224.5	216.9	211.8	205.7	203.2	201.4	201.4
12.5°	294.9	286.3	270.9	254.6	240.0	230.6	223.7	219.4	219.4	221.2	220.3
15°	332.6	323.2	300.8	280.3	260.5	247.8	243.5	242.5	242.5	243.5	243.5
17.5°	373.8	360.9	335.1	308.6	285.4	272.6	267.4	265.8	265.8	266.6	268.3
20°	423.5	407.1	374.6	340.3	315.5	300.0	292.3	289.7	291.4	294.9	294.9
22.5°	480.9	462.9	419.2	375.4	346.3	326.6	317.1	314.6	318.0	322.3	323.2
25°	546.9	522.9	468.0	414.0	376.3	351.5	342.0	338.6	343.7	348.9	351.5
27.5°	619.8	588.9	521.2	452.6	402.8	372.9	362.6	361.7	368.6	375.4	378.0
30°	700.3	662.7	577.8	492.9	430.4	391.8	380.6	383.2	390.9	399.5	401.2
32.5°	789.5	744.9	636.9	532.3	451.7	406.3	393.4	399.5	408.9	420.0	421.8
35°	886.4	832.4	699.5	569.2	470.6	417.5	404.6	412.4	422.6	434.7	436.3
37.5°	991.8	925.8	762.1	601.8	485.2	424.3	410.6	420.0	432.0	443.1	444.9
40°	1101.5	1022.6	824.6	630.9	495.4	428.6	413.2	423.5	435.5	444.1	445.7
42.5°	1225.8	1127.2	885.5	654.1	501.5	429.4	413.2	422.6	434.7	440.6	441.5
45°	1357.8	1237.8	945.5	672.9	504.0	428.6	410.6	420.8	430.4	432.9	433.7
47.5°	1494.9	1350.9	999.5	684.0	504.0	425.1	407.1	414.9	422.6	421.8	422.6
50°	1647.6	1469.3	1050.1	690.9	500.6	420.8	403.8	409.7	414.9	410.6	411.4
52.5°	1791.6	1586.7	1091.2	693.5	494.6	415.7	400.3	405.5	408.1	402.0	402.0
55°	1934.7	1697.3	1124.6	688.3	486.9	411.4	397.7	402.8	402.8	395.2	395.2
57.5°	2067.6	1791.6	1143.6	678.0	477.4	408.1	396.0	401.2	401.2	390.9	390.9
60°	2170.4	1859.3	1144.4	661.7	466.4	403.8	395.2	401.2	400.3	390.1	389.1
62.5°	2233.0	1889.3	1124.6	638.6	455.2	399.5	394.3	400.3	400.3	389.1	388.3
65°	2233.0	1869.5	1081.8	611.2	442.3	394.3	392.6	400.3	398.6	388.3	386.6
66°	2215.9	1848.2	1058.7	599.1	438.0	392.6	391.8	400.3	398.6	388.3	385.8
67.5°	2168.8	1796.7	1020.9	579.5	427.7	388.3	390.1	397.7	396.9	385.8	384.0
70°	2031.6	1663.8	939.5	544.3	412.4	380.6	384.8	391.8	390.9	380.6	377.2
72.5°	1830.2	1489.0	846.9	506.6	395.2	370.3	375.4	382.3	380.6	372.0	368.6
75°	1592.6	1291.0	746.7	466.4	374.6	356.6	362.6	368.6	366.9	359.2	354.0
77.5°	1336.4	1086.9	647.2	424.3	353.1	339.4	345.5	351.5	348.0	341.2	337.8
80°	1085.2	889.8	552.9	382.3	328.3	319.8	325.7	327.4	324.9	318.9	314.6
82.5°	865.7	715.8	463.7	341.2	301.8	296.6	300.8	300.8	298.3	292.3	288.1
85°	679.8	570.9	390.1	300.0	275.2	271.7	274.4	271.7	268.3	262.3	258.9
87.5°	535.7	457.8	326.6	264.0	246.0	245.2	246.0	240.0	236.6	231.5	228.0
90°	418.3	359.2	272.6	229.8	219.4	218.6	216.9	210.8	203.2	198.0	195.5
92.5°	326.6	288.9	225.5	196.3	191.2	190.3	187.7	180.0	174.8	168.0	165.4
95°	258.9	230.6	186.9	169.7	167.2	166.3	162.9	154.3	147.4	140.6	138.9
97.5°	203.2	182.6	156.0	145.8	144.8	144.0	139.7	130.3	122.5	115.7	114.9
100°	159.5	146.6	130.3	125.1	125.1	124.3	120.0	110.6	101.2	94.3	93.4
102.5°	126.8	118.3	108.8	107.1	107.1	106.3	102.0	94.3	83.2	75.4	75.4
105°	101.2	96.1	90.8	91.8	92.6	91.8	87.5	78.1	66.9	60.9	60.9
107.5°	81.4	78.1	76.3	78.1	78.9	78.9	74.6	64.2	54.0	48.9	48.9



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CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	66.0	64.2	64.2	66.0	67.7	67.7	62.6	54.0	43.7	39.4	39.4
112.5°	54.0	53.2	54.0	57.4	58.3	57.4	53.2	44.6	35.2	32.5	32.5
115°	45.4	45.4	46.3	48.9	50.5	48.9	44.6	36.0	28.3	26.6	26.6
117.5°	38.6	38.6	39.4	42.0	42.9	41.1	36.8	29.2	23.1	22.3	22.3
120°	32.5	32.5	33.5	35.2	36.0	34.3	30.0	24.0	18.8	18.0	18.8
122.5°	28.3	28.3	29.2	30.0	30.9	29.2	24.9	18.8	15.4	15.4	15.4
125°	24.9	24.9	24.9	25.7	25.7	24.0	20.6	15.4	12.0	12.9	12.9
127.5°	21.4	21.4	21.4	21.4	21.4	19.7	16.3	12.0	10.3	11.2	11.2
130°	18.8	18.8	18.0	18.0	17.2	16.3	12.9	9.4	8.6	9.4	9.4
132.5°	16.3	16.3	15.4	14.5	13.7	12.9	10.3	6.9	6.9	7.7	7.7
135°	13.7	13.7	12.9	12.0	11.2	9.4	6.9	5.1	5.1	6.0	6.0
137.5°	11.2	11.2	10.3	9.4	7.7	6.9	5.1	3.5	4.3	5.1	5.1
140°	8.6	8.6	7.7	6.9	5.1	3.5	2.6	2.6	2.6	3.5	3.5
142.5°	6.9	6.9	6.0	4.3	2.6	1.7	0.8	0.8	1.7	2.6	2.6
145°	5.1	5.1	4.3	3.5	1.7	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	4.3	3.5	3.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.6	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	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°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	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)