

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: P266241

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-FL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)  
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-FL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7197.2 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Short - 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

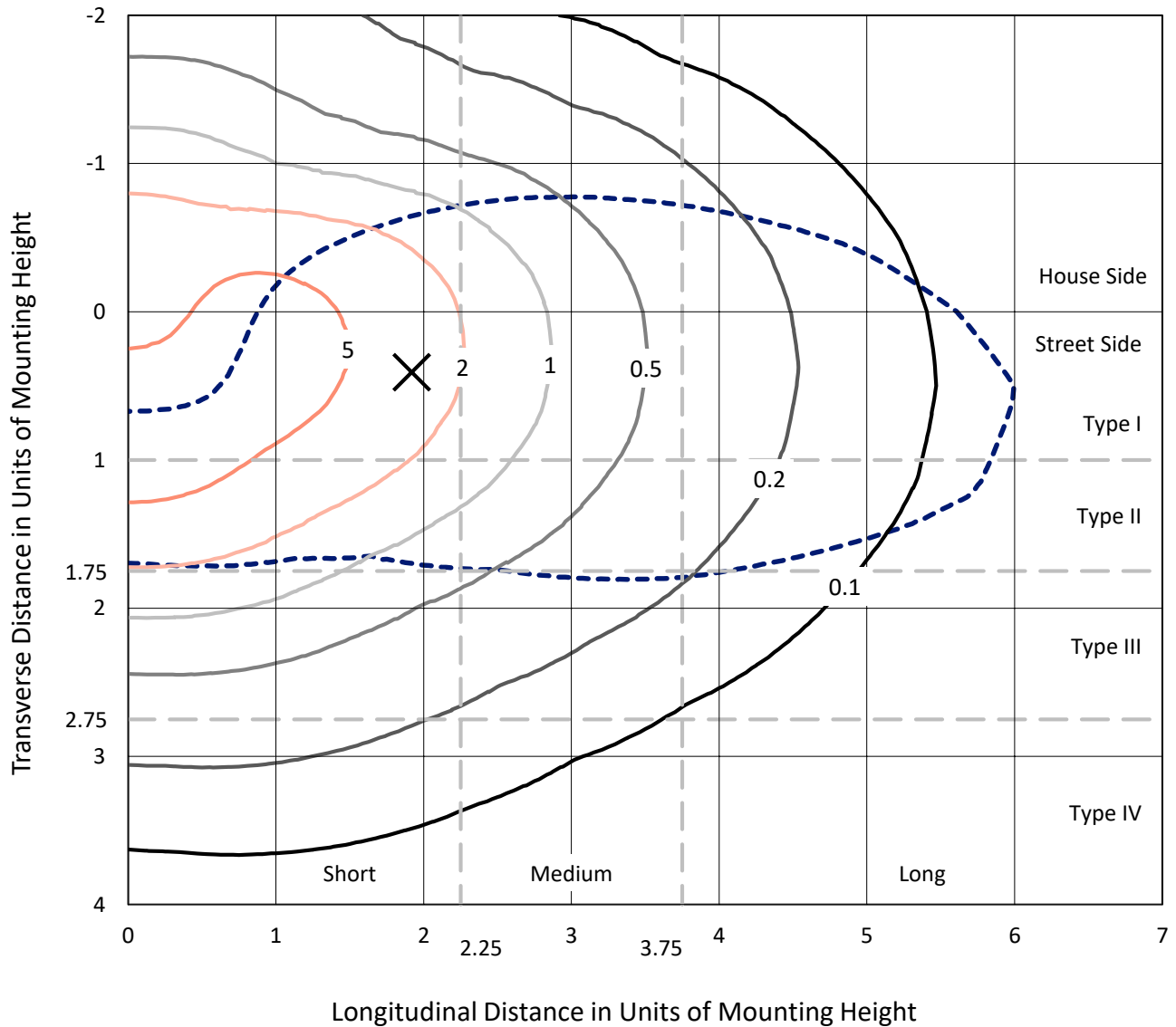


REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

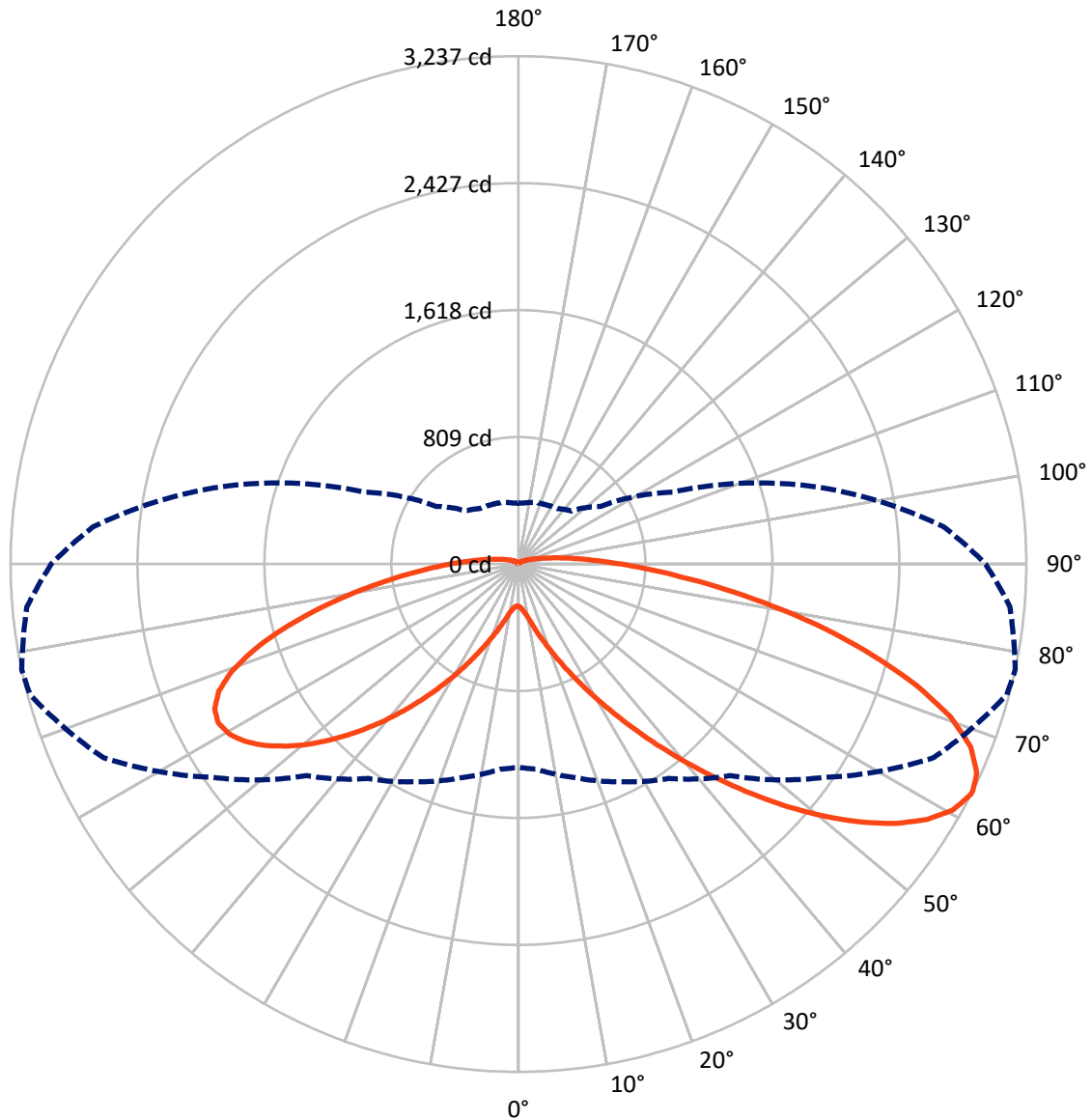


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical



REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

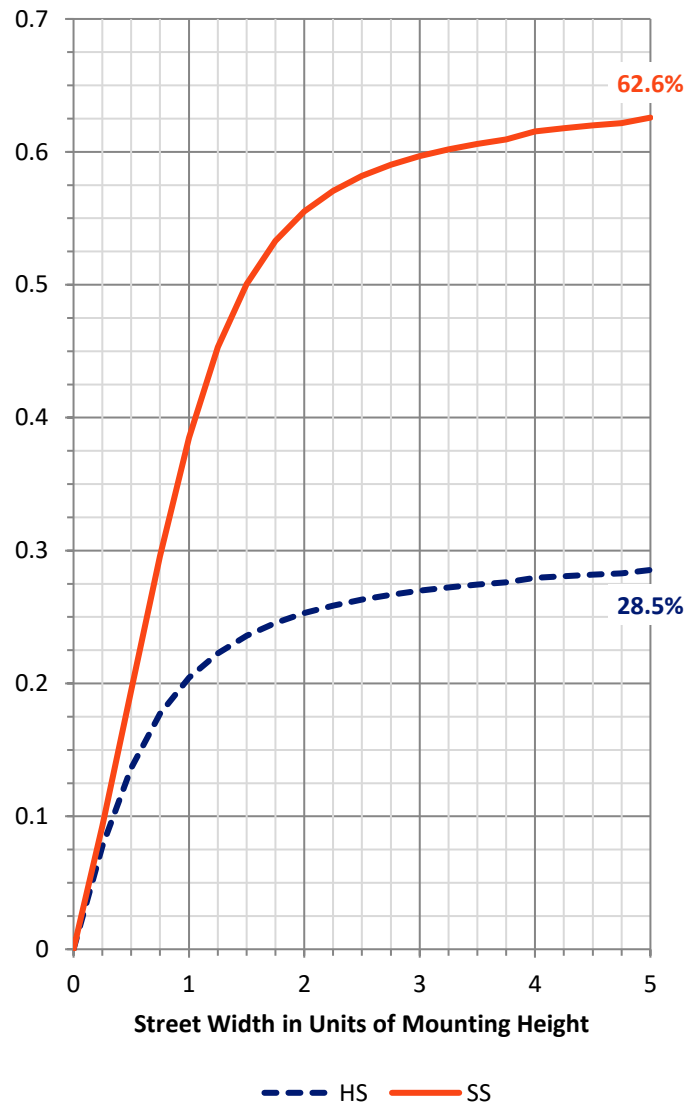
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2137.9	195.4	2333.3
	% Fixture	29.7	2.7	32.4
<b>Street Side</b>	Lumens	4621.8	242.0	4863.9
	% Fixture	64.2	3.4	67.6
<b>Total</b>	Lumens	6759.8	437.4	7197.2
	% Fixture	93.9	6.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.7	0.4
10°-20°	122.6	1.7
20°-30°	320.6	4.5
30°-40°	665.7	9.2
40°-50°	1121.3	15.6
50°-60°	1473.8	20.5
60°-70°	1459.3	20.3
70°-80°	1038.9	14.4
80°-90°	528.8	7.3
90°-100°	230.0	3.2
100°-110°	105.3	1.5
110°-120°	53.5	0.7
120°-130°	28.5	0.4
130°-140°	14.2	0.2
140°-150°	5.1	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6759.8	93.9
0°-180°	7197.2	100.0



REPORT NUMBER: P266241

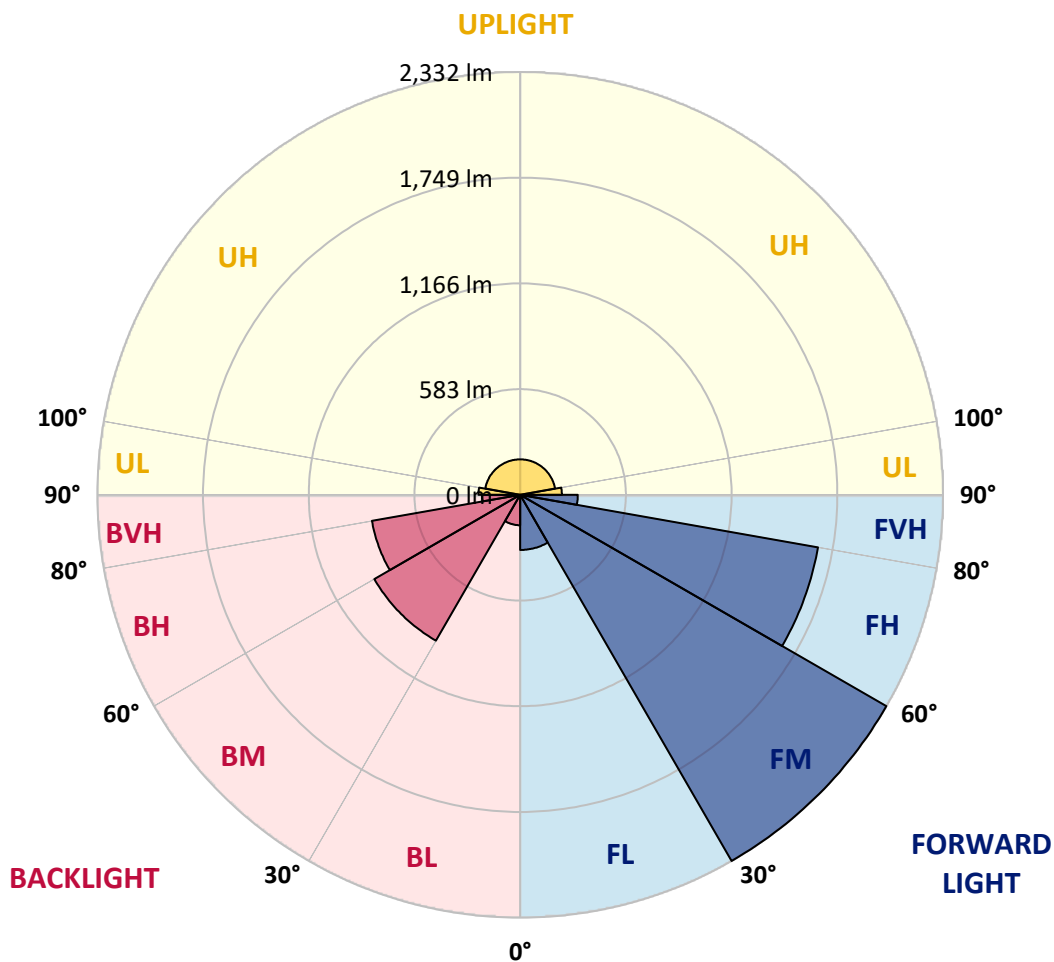
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.2	4.2			
FM (30°-60°)	2332.1	32.4			
FH (60°-80°)	1668.0	23.2			G1/1800
FVH (80°-90°)	317.5	4.4			G3/500
BL (0°-30°)	167.7	2.3	B1/500		
BM (30°-60°)	928.7	12.9	B1/1000		
BH (60°-80°)	830.2	11.5	B2/1000		G2/1000
BVH (80°-90°)	211.2	2.9			G2/225
UL (90°-100°)	230.0	3.2		U3/500	
UH (100°-180°)	195.4	2.7		U3/500	

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

Type II Short





REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3
2.5°	298.9	299.8	299.8	298.0	296.4	292.8	289.3	285.0	279.0	278.0	273.8
5°	334.4	335.3	334.4	331.0	327.5	321.5	314.5	306.7	296.4	295.5	287.5
7.5°	377.9	378.8	377.9	371.9	365.8	357.0	347.6	336.2	321.5	318.9	308.5
10°	431.8	433.5	430.9	425.7	415.2	402.4	390.1	373.6	358.0	351.9	338.8
12.5°	500.4	500.4	495.2	487.4	474.3	457.9	442.2	422.3	404.9	396.2	382.3
15°	576.9	577.8	570.9	561.4	547.3	522.2	504.8	483.9	462.3	454.5	434.4
17.5°	664.7	666.5	657.6	643.8	624.7	599.4	577.8	553.4	528.3	515.3	494.3
20°	767.2	767.2	757.6	739.3	715.1	687.3	659.4	631.7	603.8	588.2	566.6
22.5°	883.7	883.7	872.3	848.0	813.2	782.9	752.4	721.2	690.7	674.3	646.4
25°	1018.3	1023.4	1001.8	971.3	932.4	889.7	859.3	822.8	789.8	771.6	741.1
27.5°	1170.3	1172.9	1146.0	1100.9	1050.5	1006.1	972.2	939.3	902.7	883.7	847.1
30°	1333.8	1328.5	1304.2	1250.4	1184.2	1130.3	1096.6	1066.1	1024.3	1009.7	969.6
32.5°	1509.2	1505.6	1474.5	1400.5	1329.3	1264.2	1227.8	1208.6	1166.9	1150.4	1107.8
35°	1694.3	1688.2	1650.8	1573.6	1479.7	1408.5	1375.3	1365.9	1327.7	1311.0	1259.9
37.5°	1888.0	1874.1	1827.2	1729.0	1631.7	1556.1	1541.3	1527.5	1502.2	1484.9	1424.1
40°	2042.7	2036.5	1989.7	1887.2	1782.0	1718.5	1709.0	1718.5	1694.3	1674.4	1604.0
42.5°	2167.8	2163.5	2126.1	2025.3	1920.1	1861.9	1872.3	1903.7	1895.9	1875.9	1797.7
45°	2254.7	2250.3	2223.5	2136.4	2040.1	1997.6	2044.5	2101.8	2107.0	2090.4	1998.4
47.5°	2285.1	2282.6	2267.7	2204.4	2130.4	2120.0	2213.0	2303.3	2325.1	2311.2	2206.9
50°	2246.0	2247.6	2252.9	2224.3	2179.1	2208.7	2346.0	2495.3	2542.3	2526.7	2415.5
52.5°	2145.2	2151.4	2176.5	2186.0	2179.1	2254.7	2457.1	2669.1	2749.1	2731.7	2617.0
55°	1990.6	1999.3	2043.6	2093.1	2128.8	2251.2	2526.7	2815.9	2930.6	2918.6	2799.5
57.5°	1787.3	1804.7	1864.5	1952.3	2024.4	2197.3	2546.7	2916.7	3079.2	3070.5	2955.0
60°	1562.2	1577.0	1659.4	1774.2	1878.4	2092.2	2503.1	2960.2	3180.0	3182.7	3073.1
62.5°	1339.0	1355.5	1452.6	1571.8	1704.8	1941.0	2399.8	2934.1	3221.7	3234.7	3140.0
63°	1295.4	1312.0	1409.4	1530.9	1668.2	1907.1	2372.0	2919.3	3221.7	3236.6	3144.3
65°	1127.0	1142.6	1239.0	1365.9	1510.9	1759.4	2237.3	2832.4	3186.9	3209.6	3137.4
67.5°	930.6	947.1	1044.4	1169.5	1309.4	1551.0	2025.3	2653.6	3067.9	3108.8	3062.7
70°	764.5	782.0	870.5	988.8	1119.1	1339.0	1782.9	2412.8	2876.8	2921.1	2903.7
72.5°	629.9	644.8	731.6	830.7	947.1	1142.6	1534.5	2122.7	2603.1	2656.9	2667.3
75°	514.4	530.0	606.4	695.1	797.7	961.8	1293.6	1816.0	2264.3	2338.9	2368.6
77.5°	419.7	434.4	502.2	579.5	666.5	801.1	1072.1	1511.8	1916.8	2007.1	2045.4
80°	342.3	356.3	411.9	482.2	556.1	664.7	878.5	1218.1	1572.7	1654.3	1694.3
82.5°	278.0	290.2	338.8	400.6	463.0	550.8	716.8	974.8	1256.4	1325.0	1346.6
85°	224.1	234.5	278.0	332.0	385.0	452.7	579.5	770.7	982.7	1036.6	1063.5
87.5°	179.0	187.7	226.8	273.8	318.9	380.5	469.2	614.4	760.2	800.2	817.5
90°	145.0	152.1	184.2	224.1	265.0	310.2	380.5	477.9	584.7	613.5	625.6
92.5°	118.1	123.3	152.1	185.1	221.5	262.3	310.2	377.9	450.1	469.2	477.0
95°	99.1	100.8	126.0	154.7	184.2	218.9	253.7	300.7	347.6	360.6	364.1
97.5°	80.8	83.5	105.1	131.2	156.3	182.4	207.7	240.7	270.2	278.0	279.0
100°	69.4	70.3	88.7	112.1	133.8	154.7	173.0	192.9	210.3	212.9	214.7
102.5°	59.1	59.9	75.5	97.2	115.5	132.9	146.9	158.1	165.1	165.9	165.9
105°	51.3	52.1	65.1	84.4	100.8	113.8	125.1	129.4	131.2	130.3	130.3
107.5°	46.1	46.1	57.3	73.8	88.7	99.9	106.9	107.7	105.1	103.3	103.3



REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	40.9	41.7	50.3	66.0	79.1	87.8	93.0	90.4	85.2	83.5	83.5
112.5°	37.4	38.3	44.2	58.2	69.4	78.2	80.8	76.4	69.4	67.7	68.6
115°	34.8	34.8	40.0	51.3	62.5	69.4	70.3	65.1	57.3	56.5	57.3
117.5°	32.2	32.2	35.7	46.1	55.7	61.8	61.8	55.7	48.7	46.9	47.8
120°	30.5	30.5	33.0	40.9	49.5	54.7	53.9	47.8	40.9	40.9	41.7
122.5°	28.7	28.7	30.5	36.6	44.2	48.7	47.8	40.9	34.8	34.8	35.7
125°	26.9	26.9	27.8	33.0	39.0	42.6	41.7	34.8	30.5	30.5	31.4
127.5°	25.2	25.2	26.1	29.6	34.8	37.4	35.7	29.6	26.9	26.9	27.8
130°	24.3	24.3	24.3	26.1	30.5	33.0	30.5	25.2	23.4	23.4	24.3
132.5°	22.5	22.5	22.5	23.4	26.1	27.8	26.1	21.6	20.8	20.8	21.6
135°	21.6	21.6	20.8	20.8	22.5	23.4	20.8	18.2	18.2	18.2	19.1
137.5°	20.0	20.0	19.1	18.2	19.1	19.1	17.3	14.7	15.6	15.6	16.4
140°	18.2	18.2	17.3	15.6	14.7	14.7	13.0	12.1	13.0	13.0	14.0
142.5°	15.6	15.6	14.7	13.0	11.3	10.4	9.5	9.5	10.4	10.4	11.3
145°	13.0	13.0	12.1	10.4	8.8	7.8	6.9	6.9	7.8	7.8	8.8
147.5°	10.4	10.4	9.5	7.8	6.1	4.3	4.3	5.2	6.1	6.1	6.1
150°	8.8	8.8	7.8	6.1	3.5	2.6	1.7	2.6	3.5	3.5	3.5
152.5°	6.1	6.1	5.2	3.5	2.6	0.9	0.9	1.7	2.6	2.6	2.6
155°	3.5	3.5	2.6	1.7	0.9	0.9	0.9	0.9	1.7	1.7	1.7
157.5°	1.7	1.7	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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





REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3	269.3
2.5°	271.9	270.2	265.9	261.5	258.1	255.5	253.7	251.0	250.3	249.4	249.4
5°	283.2	279.0	271.1	263.3	256.2	250.3	245.0	240.7	238.1	236.3	237.2
7.5°	301.6	294.6	283.2	271.1	259.8	251.0	243.4	238.1	233.6	231.1	231.1
10°	330.1	320.6	303.3	285.8	271.9	258.9	249.4	241.6	236.3	233.6	233.6
12.5°	371.0	358.9	334.4	310.2	291.1	273.8	261.5	253.7	252.0	249.4	249.4
15°	419.7	404.9	375.3	344.1	318.0	294.6	284.1	277.1	272.8	269.3	269.3
17.5°	477.0	457.9	420.5	382.3	350.2	325.8	308.5	298.9	293.7	291.1	291.1
20°	543.0	519.6	473.5	425.7	385.8	359.7	336.2	321.5	316.3	313.7	312.8
22.5°	619.6	590.8	535.2	475.3	428.3	393.5	365.8	344.1	338.0	335.3	333.6
25°	710.6	678.6	604.6	531.7	473.5	425.7	391.8	367.5	358.9	356.3	355.4
27.5°	813.2	774.2	683.8	594.3	516.0	454.5	414.5	389.2	377.9	374.5	375.3
30°	927.9	881.9	770.7	657.6	557.8	480.5	432.8	405.8	393.5	390.1	390.1
32.5°	1055.7	994.9	865.3	724.7	597.0	502.2	448.3	420.5	405.8	403.2	403.2
35°	1196.5	1133.0	968.0	792.3	631.7	519.6	459.7	431.8	416.2	412.7	412.7
37.5°	1358.0	1274.7	1076.4	857.5	661.2	532.6	467.5	438.8	423.1	417.9	417.9
40°	1522.3	1425.8	1189.4	919.2	686.3	540.4	471.8	442.2	427.5	420.5	419.7
42.5°	1702.1	1581.3	1305.0	975.6	703.8	544.8	472.7	444.8	429.2	420.5	418.8
45°	1888.9	1758.5	1411.9	1024.3	716.8	544.8	471.8	444.0	429.2	417.9	416.2
47.5°	2077.4	1929.6	1523.0	1065.2	722.9	542.1	470.1	443.1	428.3	414.5	412.7
50°	2273.8	2100.9	1628.3	1097.4	722.0	536.9	465.7	440.4	424.9	410.0	408.4
52.5°	2458.0	2258.2	1724.7	1119.9	716.8	529.1	460.6	438.0	422.3	405.8	404.0
55°	2637.0	2416.4	1808.1	1132.1	705.4	519.6	455.4	434.4	419.7	401.5	400.6
57.5°	2781.2	2549.2	1873.2	1131.2	689.0	507.5	449.2	430.1	416.2	398.8	397.1
60°	2899.4	2656.1	1914.9	1118.2	669.0	495.2	442.2	424.9	412.7	395.3	392.6
62.5°	2968.9	2716.0	1925.3	1090.5	644.8	481.3	432.8	417.1	406.7	391.0	388.3
63°	2976.8	2721.2	1922.8	1083.4	639.5	477.9	430.9	416.2	405.8	390.1	387.4
65°	2974.1	2719.4	1897.6	1047.9	616.9	464.0	422.3	408.4	399.7	385.0	382.3
67.5°	2906.3	2653.6	1826.3	988.8	583.9	445.6	408.4	397.1	388.3	375.3	372.7
70°	2759.6	2512.6	1706.4	915.0	547.3	424.9	391.0	382.3	373.6	361.5	358.0
72.5°	2542.3	2305.1	1545.8	835.9	509.2	400.6	371.9	363.2	356.3	345.8	339.6
75°	2259.0	2041.8	1359.8	747.2	467.5	375.3	348.5	341.4	332.8	323.2	318.0
77.5°	1929.6	1741.2	1163.3	656.0	424.9	346.7	323.2	315.3	307.6	297.2	290.2
80°	1596.9	1438.8	968.8	567.4	382.3	316.3	295.5	288.4	279.0	267.6	260.7
82.5°	1280.8	1157.3	792.3	485.8	340.5	285.8	266.7	258.1	247.7	236.3	232.0
85°	1000.1	909.8	638.6	411.9	299.8	255.5	238.1	229.3	216.3	203.2	198.0
87.5°	771.6	705.4	512.7	346.7	262.3	226.0	208.5	198.0	185.9	173.0	168.5
90°	591.8	546.4	410.0	291.9	228.4	196.4	182.4	173.0	159.0	146.0	142.6
92.5°	453.6	423.1	329.3	245.9	195.6	172.0	159.9	149.5	135.6	122.4	120.0
95°	348.5	328.4	265.9	205.9	169.4	150.2	139.9	128.5	114.8	102.5	99.9
97.5°	270.2	256.2	214.7	173.7	146.9	131.2	122.4	111.2	97.2	86.0	84.4
100°	209.3	200.7	174.6	146.0	127.6	114.8	106.0	96.5	83.5	71.2	71.2
102.5°	163.3	158.1	143.4	125.1	111.2	101.7	93.9	83.5	70.3	60.8	59.9
105°	129.4	126.8	118.1	106.9	97.2	89.6	82.6	72.1	59.9	51.3	51.3
107.5°	103.3	102.5	98.2	91.3	85.2	79.1	73.0	62.5	51.3	44.2	44.2



REPORT NUMBER: P266241

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	84.4	84.4	82.6	78.2	74.6	69.4	63.4	54.7	43.5	38.3	38.3
112.5°	69.4	70.3	69.4	67.7	66.0	61.8	56.5	46.9	37.4	33.9	33.9
115°	58.2	59.1	59.1	59.1	58.2	54.7	49.5	40.9	32.2	29.6	29.6
117.5°	49.5	50.3	51.3	51.3	50.3	47.8	43.5	35.7	27.8	26.1	26.9
120°	42.6	43.5	44.2	45.2	44.2	42.6	37.4	30.5	24.3	23.4	23.4
122.5°	37.4	38.3	38.3	39.0	39.0	37.4	33.0	26.1	20.8	20.8	20.8
125°	32.2	33.0	33.9	33.9	34.8	32.2	27.8	21.6	18.2	18.2	19.1
127.5°	28.7	28.7	28.7	29.6	29.6	27.8	24.3	18.2	15.6	16.4	16.4
130°	25.2	25.2	26.1	26.1	26.1	24.3	20.0	15.6	14.0	14.7	14.7
132.5°	21.6	22.5	22.5	21.6	21.6	20.8	16.4	13.0	12.1	13.0	13.0
135°	19.1	20.0	20.0	18.2	18.2	16.4	14.0	10.4	11.3	11.3	12.1
137.5°	16.4	17.3	16.4	15.6	14.7	14.0	11.3	8.8	9.5	10.4	10.4
140°	14.0	14.0	14.0	13.0	12.1	10.4	8.8	6.9	8.8	8.8	8.8
142.5°	11.3	11.3	11.3	10.4	8.8	7.8	6.1	6.1	6.9	6.9	6.9
145°	8.8	8.8	8.8	7.8	6.1	5.2	4.3	4.3	5.2	6.1	6.1
147.5°	6.1	6.1	6.1	5.2	3.5	2.6	2.6	3.5	4.3	4.3	4.3
150°	4.3	4.3	4.3	3.5	2.6	1.7	1.7	2.6	2.6	3.5	3.5
152.5°	2.6	3.5	3.5	2.6	1.7	0.9	0.9	1.7	2.6	3.5	3.5
155°	1.7	1.7	2.6	1.7	1.7	0.9	0.0	0.0	0.9	0.9	0.9
157.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)