

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: P266242

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-37)  
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-TL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7306.1 lumens  
Efficiency: N/A  
Efficacy: 76.1 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

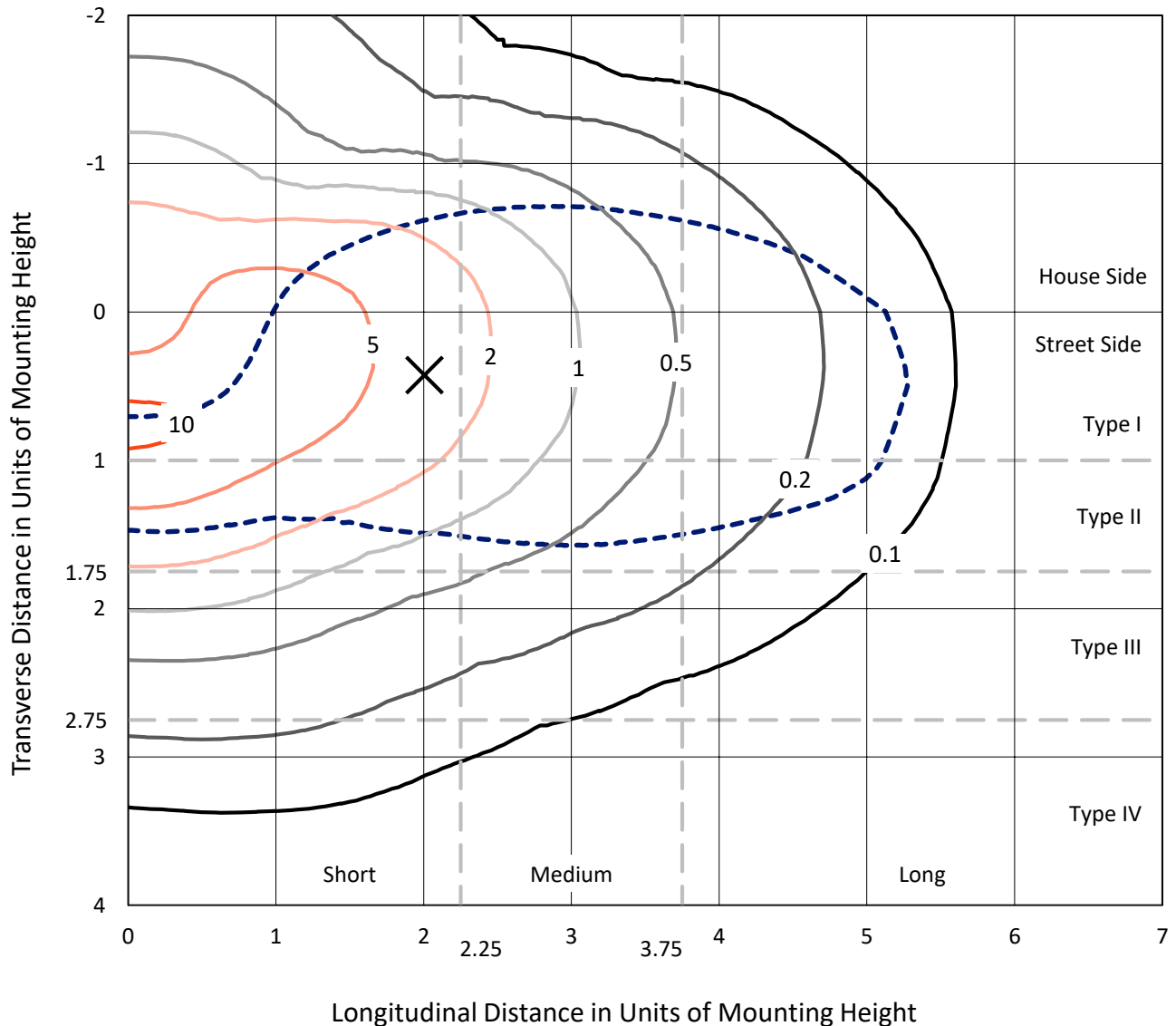


REPORT NUMBER: P266242

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

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

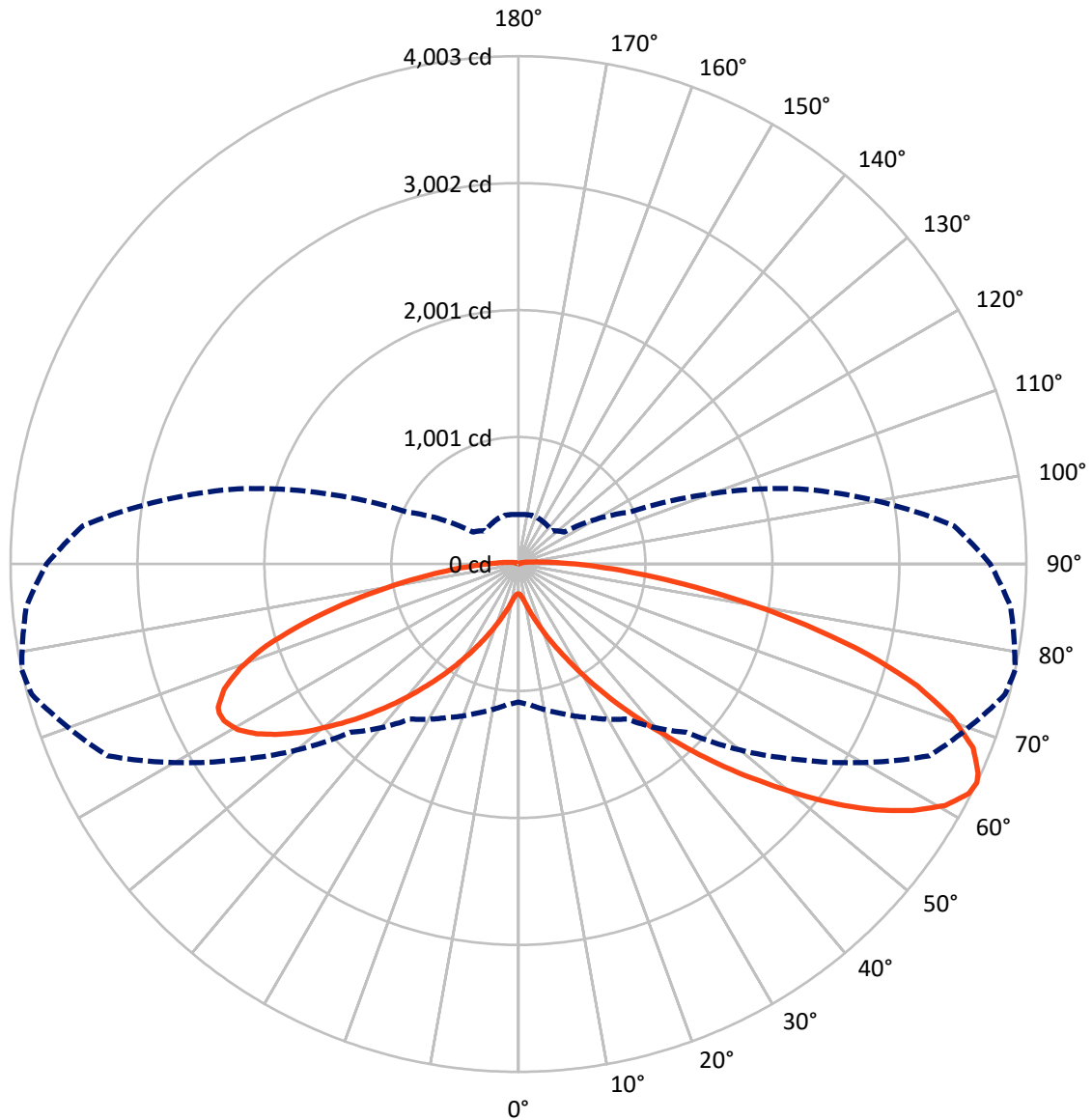


Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266242

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

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P266242

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

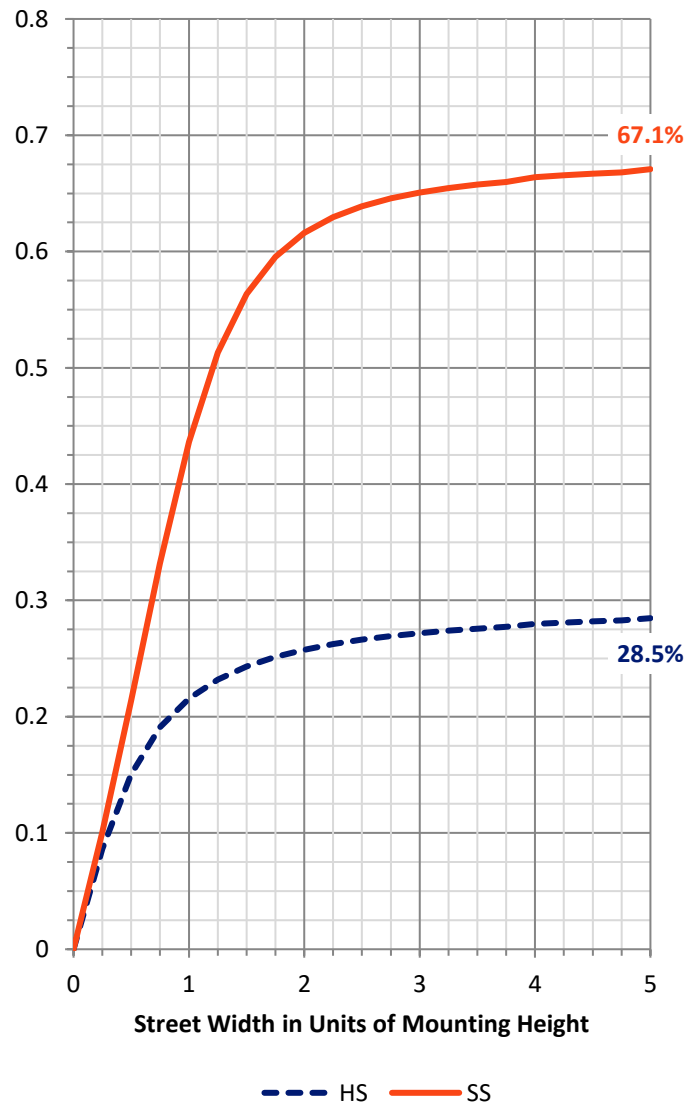
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2145.2	98.8	2244.0
	% Fixture	29.4	1.4	30.7
<b>Street Side</b>	Lumens	4968.5	93.6	5062.1
	% Fixture	68.0	1.3	69.3
<b>Total</b>	Lumens	7113.7	192.4	7306.1
	% Fixture	97.4	2.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.6	0.4
10°-20°	118.4	1.6
20°-30°	330.2	4.5
30°-40°	717.3	9.8
40°-50°	1238.9	17.0
50°-60°	1640.3	22.5
60°-70°	1600.3	21.9
70°-80°	1040.1	14.2
80°-90°	402.5	5.5
90°-100°	116.2	1.6
100°-110°	44.2	0.6
110°-120°	19.2	0.3
120°-130°	8.4	0.1
130°-140°	3.4	0.0
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7113.7	97.4
0°-180°	7306.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P266242

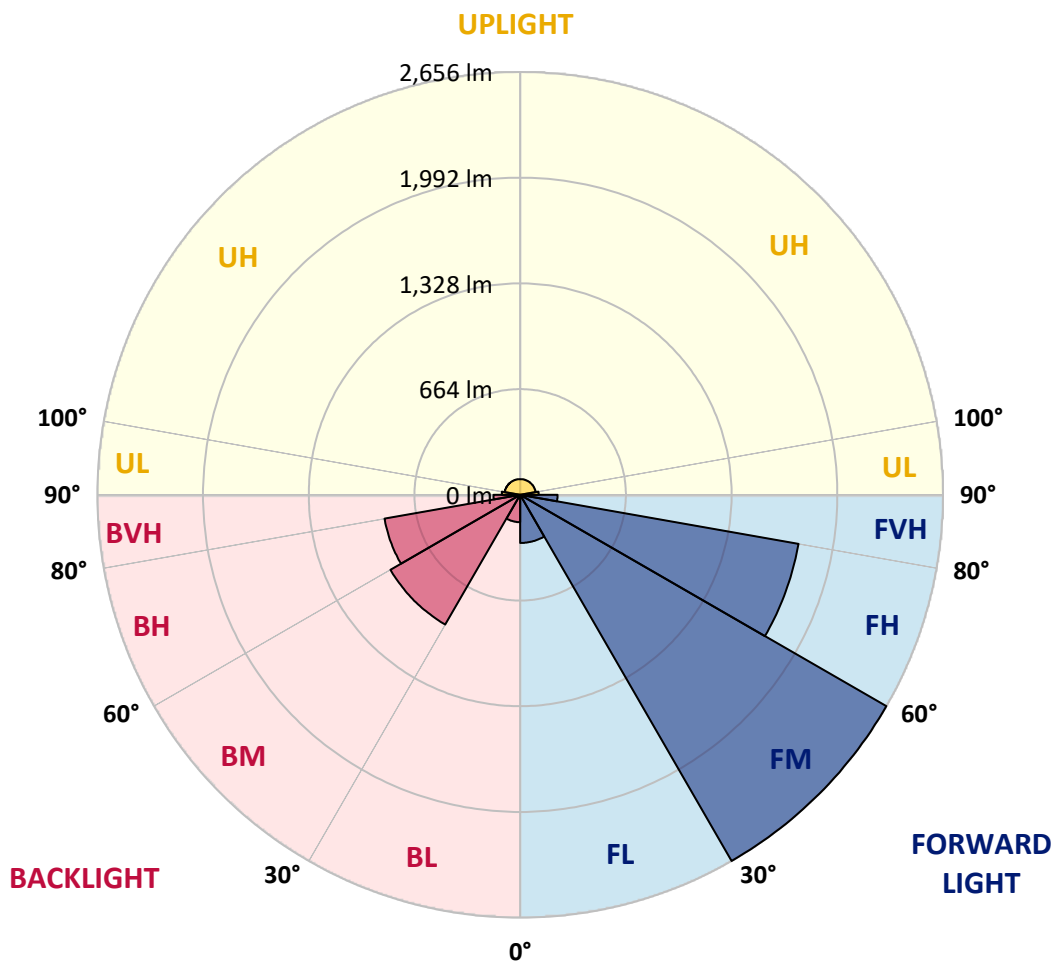
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-TL-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.4	4.1			
FM (30°-60°)	2656.0	36.4			
FH (60°-80°)	1775.3	24.3			G1/1800
FVH (80°-90°)	234.7	3.2			G3/500
BL (0°-30°)	171.8	2.4	B1/500		
BM (30°-60°)	940.6	12.9	B1/1000		
BH (60°-80°)	865.0	11.8	B2/1000		G2/1000
BVH (80°-90°)	167.8	2.3			G2/225
UL (90°-100°)	116.2	1.6		U3/500	
UH (100°-180°)	98.8	1.4		U3/500	

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

Type II Short





REPORT NUMBER: P266242

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	254.6	253.7	253.7	254.6	252.0	251.0	248.6	245.0	242.5	241.6	238.9
5°	282.3	280.6	279.0	279.8	277.1	272.8	268.5	263.3	258.9	257.2	252.9
7.5°	315.3	317.1	313.7	311.9	308.5	304.0	296.4	290.2	284.1	281.4	277.1
10°	367.5	368.3	362.3	363.2	352.8	347.6	339.6	329.3	322.3	318.0	311.9
12.5°	438.8	438.0	430.9	428.3	415.3	405.8	393.5	381.4	374.5	369.3	358.9
15°	525.7	523.9	519.6	509.2	489.1	477.0	462.3	444.0	434.4	427.5	416.2
17.5°	628.2	629.1	620.4	606.4	579.5	562.2	540.4	516.0	502.2	492.6	480.5
20°	756.0	756.8	741.1	721.2	686.5	662.1	625.6	603.0	581.3	576.1	556.9
22.5°	907.9	907.1	883.7	857.5	810.6	774.2	734.2	697.8	672.6	665.6	644.8
25°	1080.9	1079.1	1050.5	1022.6	952.3	904.6	852.3	807.1	782.0	768.1	744.7
27.5°	1284.1	1280.8	1242.4	1202.6	1113.0	1042.7	979.2	936.7	905.3	887.0	861.0
30°	1503.1	1499.6	1453.5	1388.4	1292.0	1211.2	1127.8	1078.2	1042.7	1028.6	993.0
32.5°	1739.5	1732.6	1678.7	1599.6	1485.7	1383.2	1298.9	1242.4	1199.1	1185.1	1139.1
35°	1979.2	1969.8	1912.3	1820.2	1689.1	1577.0	1490.9	1431.9	1378.0	1359.8	1304.2
37.5°	2209.6	2196.4	2151.4	2034.9	1901.9	1797.7	1701.2	1627.4	1568.4	1551.8	1478.8
40°	2391.9	2384.1	2342.4	2230.3	2103.6	1998.4	1924.4	1865.4	1790.7	1765.4	1687.3
42.5°	2531.0	2523.2	2491.0	2398.0	2285.1	2213.0	2151.4	2108.7	2044.5	2017.6	1907.1
45°	2603.1	2591.8	2578.0	2511.0	2433.7	2398.0	2390.2	2374.6	2312.1	2280.7	2152.2
47.5°	2586.6	2581.4	2594.5	2553.6	2523.2	2554.4	2621.3	2652.7	2580.6	2551.8	2416.4
50°	2482.3	2489.4	2522.4	2518.8	2548.4	2654.4	2823.0	2926.3	2881.1	2843.0	2695.3
52.5°	2307.7	2317.3	2376.3	2408.4	2493.7	2694.3	2979.3	3184.4	3188.8	3144.3	2977.6
55°	2078.3	2099.2	2171.4	2233.8	2371.2	2648.4	3071.5	3401.6	3466.7	3421.6	3244.3
57.5°	1806.3	1836.8	1915.8	2019.2	2179.1	2522.4	3089.7	3564.0	3702.3	3664.8	3495.5
60°	1523.2	1544.8	1643.0	1759.4	1919.3	2329.5	3014.1	3649.3	3887.2	3863.8	3725.7
62.5°	1245.1	1269.5	1370.2	1498.0	1654.3	2055.7	2834.2	3643.2	3973.4	3984.6	3862.2
64°	1087.8	1114.7	1213.8	1334.6	1490.9	1877.5	2684.8	3575.3	3971.5	4002.8	3895.1
65°	989.7	1016.5	1113.9	1233.8	1386.8	1754.2	2572.7	3510.1	3955.1	3981.1	3895.9
67.5°	773.4	795.0	887.0	1010.6	1133.0	1445.8	2217.3	3253.0	3821.3	3864.7	3815.2
70°	594.3	615.2	699.4	813.2	915.8	1175.5	1831.6	2876.8	3563.1	3624.0	3600.5
72.5°	457.0	474.3	549.1	648.1	731.6	929.7	1463.2	2431.9	3189.6	3288.7	3292.9
75°	352.8	366.7	428.3	514.4	580.5	722.9	1139.9	1953.3	2713.5	2844.7	2875.0
77.5°	275.4	284.1	333.6	404.0	457.9	552.5	857.5	1503.1	2189.4	2319.9	2373.7
80°	216.3	223.3	261.5	317.1	359.7	415.3	628.2	1112.1	1678.7	1796.8	1848.1
82.5°	167.8	173.8	204.2	249.4	282.3	318.9	449.2	792.5	1221.7	1318.9	1360.7
85°	127.6	132.1	158.1	192.0	218.9	245.0	313.7	541.3	850.7	924.4	953.1
87.5°	94.7	98.2	120.0	147.7	167.8	187.7	228.4	358.0	571.7	624.7	645.5
90°	68.6	71.2	88.7	112.1	129.4	144.3	165.9	237.2	367.5	403.2	418.8
92.5°	48.7	51.3	65.1	84.4	100.8	112.9	127.6	165.1	235.4	254.6	266.7
95°	35.7	37.4	47.8	63.4	78.2	89.6	101.7	120.0	155.5	165.9	170.3
97.5°	26.9	27.8	36.6	48.7	61.8	71.2	79.9	91.3	109.5	114.8	117.3
100°	20.8	21.6	28.7	39.0	49.5	58.2	64.3	71.2	80.8	84.4	86.0
102.5°	17.3	18.2	23.4	32.2	40.9	47.8	53.0	57.3	61.8	63.4	66.0
105°	15.6	15.6	20.8	27.8	34.8	40.9	45.2	46.9	47.8	48.7	49.5
107.5°	13.0	14.0	18.2	24.3	30.5	35.7	38.3	38.3	36.6	36.6	37.4



REPORT NUMBER: P266242

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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	12.1	12.1	15.6	20.8	26.9	30.5	32.2	30.5	26.9	26.9	27.8
112.5°	10.4	11.3	14.0	18.2	23.4	26.9	26.9	24.3	20.0	20.0	20.8
115°	9.5	9.5	12.1	16.4	20.0	22.5	22.5	20.0	14.7	14.7	15.6
117.5°	8.8	8.8	10.4	14.0	17.3	20.0	19.1	15.6	11.3	11.3	13.0
120°	8.8	8.8	9.5	12.1	14.7	16.4	15.6	12.1	8.8	8.8	10.4
122.5°	7.8	7.8	8.8	10.4	13.0	14.0	13.0	9.5	6.9	7.8	8.8
125°	7.8	7.8	7.8	9.5	11.3	12.1	11.3	7.8	6.1	6.1	6.9
127.5°	6.9	6.9	6.9	7.8	9.5	10.4	8.8	6.1	5.2	5.2	6.1
130°	6.9	6.9	6.1	6.9	8.8	8.8	6.9	4.3	3.5	4.3	5.2
132.5°	6.1	6.1	6.1	6.1	6.9	6.9	6.1	3.5	3.5	3.5	4.3
135°	6.1	6.1	5.2	5.2	6.1	6.1	4.3	2.6	2.6	2.6	3.5
137.5°	5.2	5.2	5.2	4.3	4.3	4.3	3.5	1.7	1.7	2.6	2.6
140°	4.3	4.3	4.3	3.5	3.5	2.6	1.7	0.9	1.7	1.7	2.6
142.5°	3.5	3.5	3.5	2.6	2.6	1.7	0.9	0.9	0.9	1.7	1.7
145°	2.6	2.6	2.6	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
147.5°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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





REPORT NUMBER: P266242

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	238.1	237.2	234.5	232.8	231.1	229.3	229.3	227.6	226.8	226.0	226.0
5°	252.0	248.6	244.2	240.7	236.3	232.0	228.4	226.0	224.1	223.3	222.4
7.5°	272.8	268.5	260.7	254.6	246.8	240.7	235.4	230.2	228.4	226.8	226.8
10°	307.6	299.8	288.4	277.1	266.7	256.3	250.3	243.4	241.6	239.8	239.8
12.5°	353.7	345.8	327.5	311.9	295.5	281.4	271.9	265.9	264.1	261.5	262.3
15°	408.4	394.4	374.5	351.9	331.0	311.9	300.7	291.1	286.6	284.1	285.0
17.5°	470.1	454.5	425.7	396.2	369.3	348.5	329.3	315.3	308.5	305.9	305.9
20°	541.3	523.9	487.4	447.4	412.7	383.1	358.9	338.0	329.3	325.8	325.8
22.5°	625.6	603.9	553.4	502.2	458.8	415.3	383.1	358.0	347.6	344.1	344.1
25°	722.9	694.2	629.9	566.6	501.3	443.1	402.4	375.3	363.2	358.9	358.9
27.5°	824.6	797.7	714.2	633.5	544.0	465.7	417.1	387.4	373.6	371.0	370.1
30°	953.1	915.0	807.1	696.8	580.5	481.3	423.1	394.4	380.5	377.9	377.9
32.5°	1087.8	1042.7	912.3	762.9	608.2	488.3	424.0	397.1	385.0	382.3	381.4
35°	1245.9	1187.6	1021.8	830.7	633.5	491.0	423.1	398.8	389.2	385.8	385.0
37.5°	1418.0	1344.1	1137.3	893.2	646.4	486.5	420.5	397.9	391.0	386.6	385.8
40°	1604.0	1518.8	1269.5	943.6	648.1	477.9	415.3	398.8	391.8	386.6	385.0
42.5°	1811.6	1709.0	1397.1	989.7	642.9	467.5	411.9	398.8	392.6	386.6	385.0
45°	2042.7	1917.6	1530.9	1025.2	629.1	455.4	408.4	398.8	393.5	385.8	385.0
47.5°	2289.4	2140.9	1668.2	1053.1	611.7	443.1	406.7	400.6	396.2	386.6	385.8
50°	2547.6	2376.3	1801.1	1071.3	590.8	431.8	404.9	400.6	397.9	387.4	386.6
52.5°	2825.4	2625.7	1945.4	1080.9	566.6	420.5	403.2	402.4	399.7	390.1	388.3
55°	3084.5	2865.6	2073.9	1080.9	541.3	410.0	401.5	403.2	402.4	392.6	391.0
57.5°	3326.1	3086.1	2187.0	1067.8	514.4	399.7	397.9	402.4	403.2	394.4	392.6
60°	3534.6	3279.2	2266.9	1047.0	486.5	389.2	393.5	400.6	403.2	395.3	393.5
62.5°	3675.2	3412.9	2293.8	1002.7	457.0	377.9	385.8	395.3	400.6	393.5	391.8
64°	3718.8	3446.7	2287.8	969.6	438.8	371.0	380.5	391.8	397.1	391.8	390.1
65°	3730.9	3451.9	2266.0	941.9	427.5	365.8	376.2	388.3	394.4	389.2	387.4
67.5°	3657.9	3361.6	2159.2	859.3	400.6	351.9	364.1	376.2	384.0	381.4	379.8
70°	3471.9	3170.5	1982.7	768.9	372.7	335.3	347.6	360.6	370.1	368.3	367.5
72.5°	3165.3	2868.9	1760.3	662.9	344.9	317.1	325.8	340.5	350.2	349.4	347.6
75°	2759.6	2472.0	1454.4	566.6	314.5	293.7	302.4	315.3	324.9	323.2	323.2
77.5°	2285.1	2009.7	1167.7	468.3	286.6	268.5	276.3	286.6	295.5	292.8	291.9
80°	1780.4	1546.6	892.3	381.4	257.2	241.6	246.8	254.6	262.3	258.9	258.1
82.5°	1308.6	1131.2	657.6	305.9	227.6	211.1	215.5	222.4	226.8	223.3	222.4
85°	917.4	790.7	476.1	243.4	195.6	181.5	182.4	185.9	189.5	184.2	183.3
87.5°	618.7	530.0	330.1	192.9	165.1	152.9	152.1	153.8	156.3	151.2	148.6
90°	405.8	345.8	226.0	156.3	138.2	127.6	126.0	126.0	126.8	120.8	119.0
92.5°	257.2	224.1	164.2	127.6	115.5	106.0	103.3	102.5	101.7	95.6	94.7
95°	167.8	153.8	126.0	106.0	95.6	87.8	85.2	83.5	81.7	77.3	75.5
97.5°	118.1	111.2	99.9	87.8	79.9	73.0	70.3	67.7	66.0	60.8	59.9
100°	88.7	86.0	80.8	73.0	67.0	60.8	58.2	55.7	53.9	48.7	47.8
102.5°	68.6	68.6	66.0	60.8	55.7	50.3	48.7	46.1	43.5	40.0	39.0
105°	53.0	53.0	53.9	51.3	46.9	43.5	40.9	39.0	36.6	32.2	32.2
107.5°	40.0	41.7	43.5	42.6	40.0	36.6	34.8	33.0	29.6	26.9	26.9



REPORT NUMBER: P266242

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	30.5	31.4	34.8	35.7	33.9	31.4	29.6	26.9	24.3	21.6	21.6
112.5°	22.5	24.3	27.8	29.6	28.7	26.9	25.2	22.5	19.1	18.2	18.2
115°	17.3	19.1	22.5	24.3	24.3	22.5	20.8	18.2	15.6	14.7	15.6
117.5°	14.0	15.6	18.2	20.0	20.0	18.2	17.3	14.7	13.0	13.0	13.0
120°	11.3	13.0	14.7	16.4	16.4	15.6	14.0	12.1	10.4	11.3	11.3
122.5°	9.5	10.4	12.1	13.0	14.0	13.0	11.3	9.5	8.8	9.5	9.5
125°	7.8	8.8	10.4	10.4	11.3	10.4	9.5	7.8	6.9	7.8	7.8
127.5°	6.9	7.8	8.8	8.8	9.5	8.8	7.8	6.1	6.1	6.9	6.9
130°	5.2	6.1	6.9	6.9	7.8	6.9	6.1	5.2	5.2	6.1	6.1
132.5°	4.3	5.2	5.2	6.1	6.1	6.1	5.2	3.5	4.3	4.3	4.3
135°	4.3	4.3	5.2	4.3	4.3	4.3	3.5	2.6	3.5	3.5	3.5
137.5°	3.5	3.5	4.3	4.3	3.5	3.5	2.6	1.7	2.6	3.5	3.5
140°	2.6	3.5	3.5	3.5	3.5	2.6	1.7	0.9	1.7	1.7	1.7
142.5°	2.6	2.6	3.5	3.5	2.6	1.7	0.9	0.0	0.9	0.9	0.9
145°	1.7	2.6	2.6	2.6	1.7	1.7	0.9	0.0	0.0	0.9	0.0
147.5°	1.7	1.7	2.6	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
150°	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.9	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)