

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: P416259

Luminaire Tested: **LXF.LXT-PA1-70-727-U-T4W-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-70-727-U-T4W-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6648 lumens  
Efficiency: N/A  
Efficacy: 89.8 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 - 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

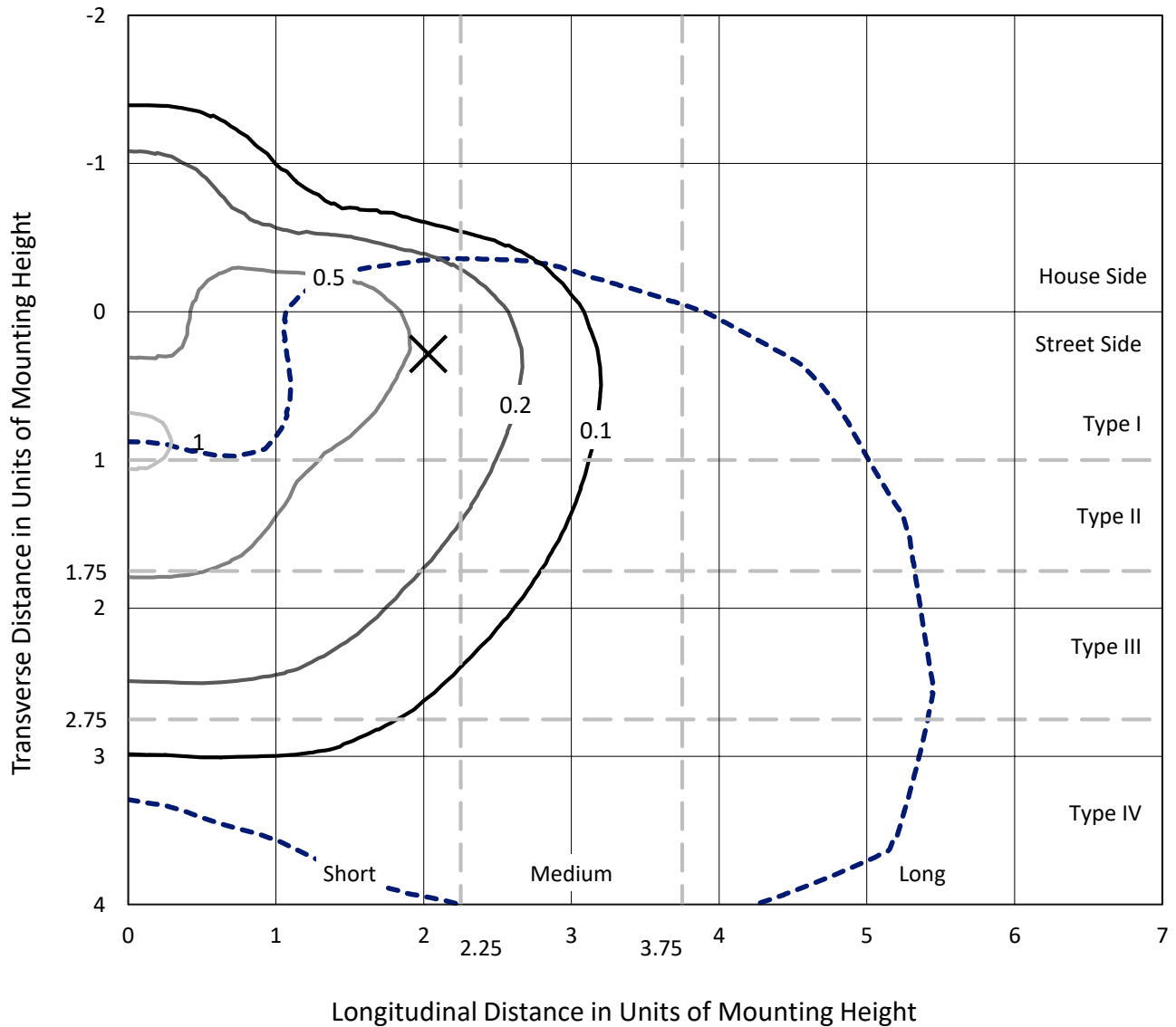


REPORT NUMBER: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

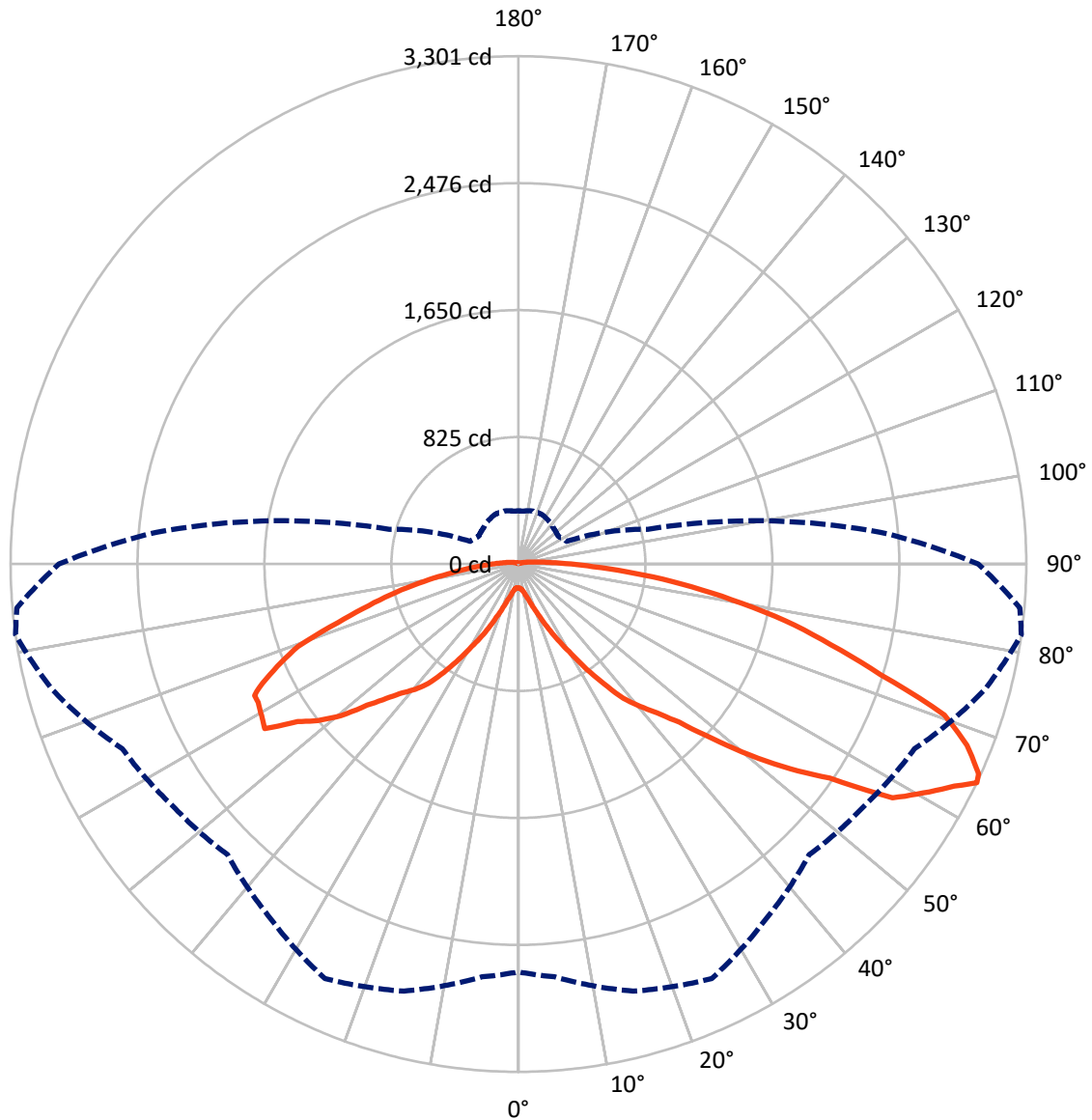


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

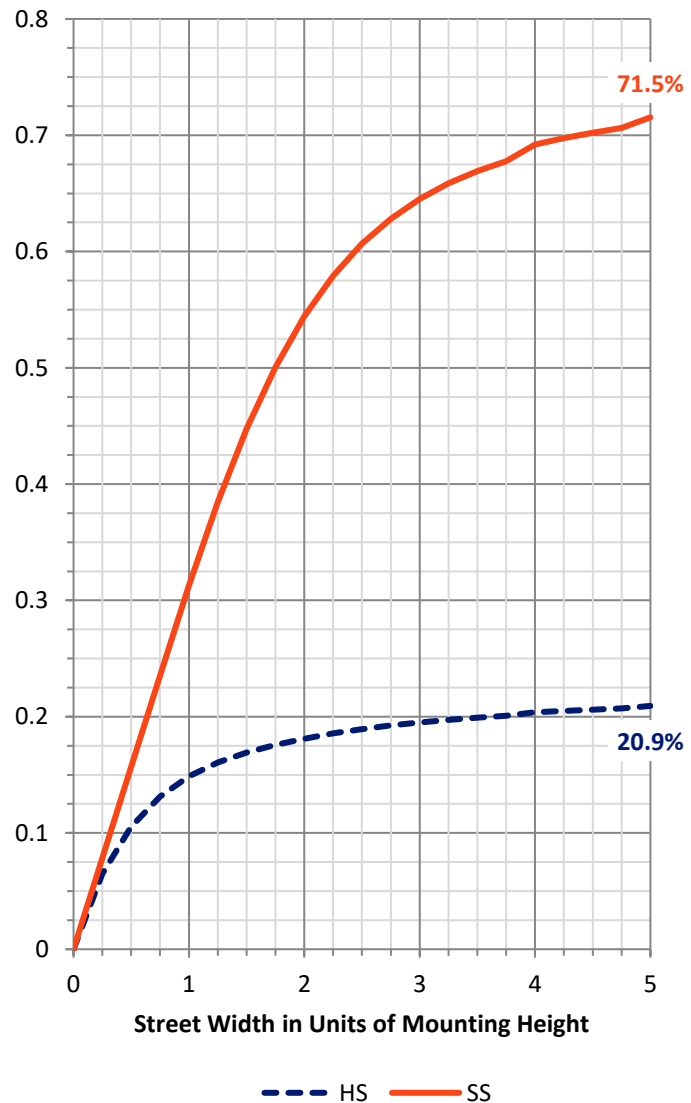
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1461.4	109.5	1570.9
	% Fixture	22.0	1.6	23.6
<b>Street Side</b>	Lumens	4933.6	143.5	5077.1
	% Fixture	74.2	2.2	76.4
<b>Total</b>	Lumens	6395.0	253.0	6648.0
	% Fixture	96.2	3.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.0	0.2
10°-20°	68.4	1.0
20°-30°	197.1	3.0
30°-40°	452.4	6.8
40°-50°	794.5	12.0
50°-60°	1276.3	19.2
60°-70°	1713.2	25.8
70°-80°	1309.8	19.7
80°-90°	567.3	8.5
90°-100°	159.4	2.4
100°-110°	48.4	0.7
110°-120°	21.2	0.3
120°-130°	12.1	0.2
130°-140°	7.4	0.1
140°-150°	3.3	0.0
150°-160°	1.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6395.0	96.2
0°-180°	6648.0	100.0



REPORT NUMBER: P416259

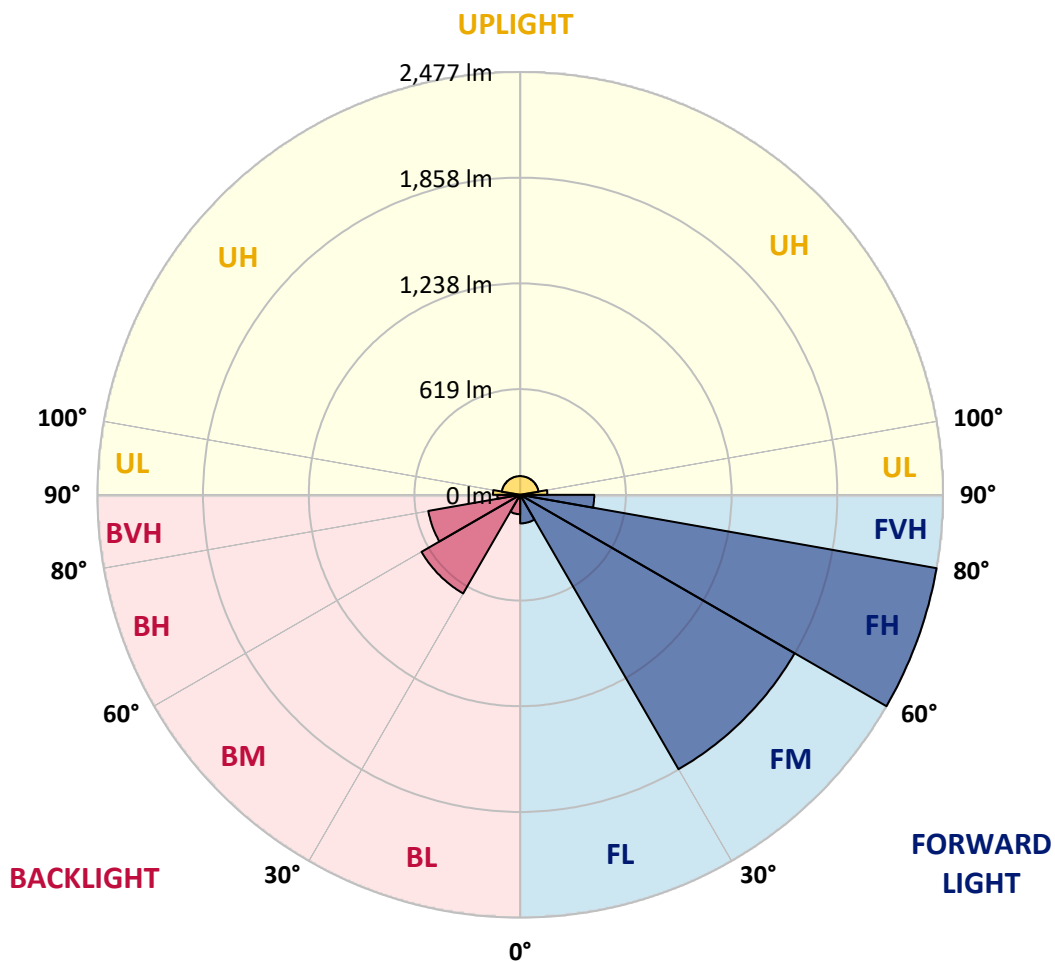
CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.4	2.5			
FM	(30°-60°)	1855.8	27.9			
FH	(60°-80°)	2476.7	37.3			G2/5000
FVH	(80°-90°)	433.7	6.5			G3/500
BL	(0°-30°)	114.1	1.7	B1/500		
BM	(30°-60°)	667.4	10.0	B1/1000		
BH	(60°-80°)	546.3	8.2	B2/1000		G2/1000
BVH	(80°-90°)	133.6	2.0			G2/225
UL	(90°-100°)	159.4	2.4		U3/500	
UH	(100°-180°)	109.5	1.6		U3/500	

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

Type IV Short





REPORT NUMBER: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3
2.5°	166.8	166.0	166.0	166.8	166.8	165.3	162.2	159.9	157.6	156.9	156.1
5°	182.1	181.3	180.6	181.3	179.0	176.7	172.2	167.6	164.5	161.4	160.7
7.5°	202.8	202.0	201.2	199.7	196.6	192.1	185.2	179.0	173.7	169.9	168.3
10°	229.5	226.5	225.7	222.7	217.3	209.6	202.0	194.3	188.2	182.9	180.6
12.5°	266.3	266.3	260.1	253.3	244.1	232.6	222.7	216.5	210.4	207.4	202.8
15°	311.4	309.9	303.8	292.3	277.0	264.0	253.3	245.6	241.8	236.4	234.1
17.5°	361.1	358.1	352.7	335.1	316.8	303.0	290.8	283.1	280.8	276.2	275.5
20°	426.2	421.6	408.6	387.2	361.9	346.6	335.1	326.7	325.9	327.5	326.7
22.5°	503.5	500.4	484.3	445.3	417.0	394.8	379.5	381.0	391.0	395.6	389.5
25°	596.0	599.1	572.3	520.3	482.8	445.3	439.2	447.6	469.8	482.0	482.8
27.5°	705.5	704.7	669.5	612.1	554.0	511.9	501.9	526.4	557.8	575.4	575.4
30°	827.9	838.6	788.9	713.9	632.8	583.0	575.4	612.9	645.8	677.1	686.3
32.5°	990.9	988.6	924.3	834.0	726.1	655.7	649.6	697.0	771.3	814.9	814.9
35°	1193.6	1185.2	1095.7	960.3	815.6	736.8	737.6	803.4	901.3	954.9	960.3
37.5°	1368.1	1375.0	1284.7	1120.2	931.2	829.4	838.6	927.3	1045.2	1107.9	1129.3
40°	1554.8	1557.1	1457.6	1278.5	1055.9	928.1	950.3	1052.8	1164.5	1216.6	1237.2
42.5°	1719.3	1733.0	1633.6	1437.7	1182.1	1049.0	1059.7	1149.2	1260.2	1322.2	1351.2
45°	1832.5	1840.2	1778.9	1583.8	1319.1	1172.2	1170.7	1254.1	1397.1	1466.0	1512.7
47.5°	1986.3	2007.0	1919.0	1730.7	1459.9	1297.7	1284.7	1391.8	1580.0	1691.7	1731.5
50°	2166.9	2198.2	2136.3	1909.0	1620.6	1445.3	1447.6	1575.4	1807.3	1953.4	1994.7
52.5°	2346.7	2358.9	2317.6	2123.3	1807.3	1617.5	1635.9	1795.8	2062.1	2212.0	2237.3
55°	2443.1	2460.7	2472.9	2319.1	2031.4	1821.8	1853.9	2046.7	2279.4	2455.3	2512.7
57.5°	2534.9	2559.4	2591.5	2486.7	2254.1	2074.3	2105.7	2277.1	2616.8	2867.7	2911.4
60°	2690.2	2711.7	2773.6	2687.9	2458.4	2315.3	2348.2	2589.2	2849.4	3022.3	3026.9
62.5°	2687.9	2721.6	2871.6	2893.0	2677.2	2547.1	2627.5	2757.6	2963.4	3180.7	3176.1
64°	2651.2	2693.3	2873.9	2973.3	2810.4	2672.6	2742.3	2840.2	3140.1	3300.8	3271.7
65°	2625.2	2671.9	2867.0	2994.0	2883.0	2743.8	2795.8	2909.1	3191.4	3287.0	3247.3
67.5°	2482.1	2534.1	2792.8	2991.7	2958.0	2855.5	2872.3	2977.9	3106.5	3144.0	3072.8
70°	2225.8	2253.3	2547.1	2866.2	2883.8	2785.9	2831.8	2886.1	2956.5	2938.1	2844.8
72.5°	1756.8	1813.4	2110.3	2564.7	2665.0	2594.6	2612.2	2639.0	2567.8	2462.2	2351.3
75°	1251.0	1301.5	1578.5	2023.0	2320.7	2292.4	2316.8	2274.0	2195.2	2098.8	1990.1
77.5°	870.0	886.0	1114.8	1526.5	1854.7	1941.2	1994.0	1933.5	1889.1	1773.6	1686.4
80°	563.1	589.9	733.8	1105.6	1469.8	1646.6	1731.5	1692.5	1589.2	1404.8	1305.3
82.5°	348.9	370.3	483.6	785.0	1165.3	1410.9	1492.8	1439.2	1274.0	1068.1	968.7
85°	199.7	204.3	283.1	511.1	851.6	1120.9	1230.3	1144.6	952.6	753.7	666.4
87.5°	114.8	118.6	169.1	312.9	589.2	844.7	948.8	824.1	639.7	484.3	426.9
90°	73.5	78.0	109.4	204.3	379.5	603.7	680.2	565.4	428.5	306.8	270.1
92.5°	50.5	52.8	73.5	127.0	244.8	398.6	454.5	378.0	267.0	195.9	173.7
95°	36.7	38.3	52.0	86.5	157.6	250.2	280.8	239.5	175.2	130.1	116.3
97.5°	29.8	30.6	40.6	63.5	108.6	159.1	168.3	149.2	116.3	92.6	87.2
100°	25.2	26.0	33.7	49.0	77.3	104.1	106.4	100.2	81.9	68.9	65.8
102.5°	23.0	23.0	28.3	39.8	58.2	74.2	74.2	68.9	56.6	50.5	50.5
105°	20.7	20.7	24.5	32.9	45.9	57.4	56.6	50.5	42.8	38.3	39.0
107.5°	18.4	18.4	21.4	26.8	37.5	45.1	43.6	37.5	32.9	29.8	30.6



REPORT NUMBER: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
110°	16.8	16.8	19.1	23.0	31.4	37.5	35.2	29.1	24.5	24.5	25.2
112.5°	15.3	15.3	16.8	20.7	26.8	30.6	28.3	23.0	19.9	19.9	20.7
115°	13.8	13.8	15.3	18.4	23.7	26.0	23.7	18.4	16.1	16.8	18.4
117.5°	13.0	13.0	14.5	16.8	20.7	22.2	19.9	15.3	13.8	15.3	16.1
120°	12.2	12.2	13.8	16.1	19.1	19.9	16.8	13.8	12.2	13.8	14.5
122.5°	12.2	12.2	13.0	15.3	17.6	17.6	15.3	12.2	10.7	12.2	13.0
125°	12.2	12.2	13.0	14.5	16.1	16.1	13.8	10.7	9.9	11.5	11.5
127.5°	13.0	13.0	13.8	14.5	15.3	14.5	12.2	9.9	9.2	10.7	10.7
130°	13.0	13.0	13.0	13.8	13.8	13.0	10.7	9.2	9.2	9.9	10.7
132.5°	13.0	13.0	13.0	13.0	13.0	11.5	9.9	8.4	9.2	9.9	10.7
135°	12.2	12.2	12.2	12.2	11.5	9.9	8.4	6.9	8.4	9.2	9.2
137.5°	10.7	11.5	10.7	10.7	10.7	9.2	6.9	6.1	6.9	8.4	8.4
140°	9.9	9.9	9.9	9.9	9.2	7.7	6.1	4.6	5.4	6.9	6.9
142.5°	9.2	9.2	9.2	8.4	8.4	6.9	4.6	3.8	4.6	5.4	5.4
145°	7.7	7.7	7.7	7.7	6.9	5.4	3.8	3.1	3.8	4.6	4.6
147.5°	6.1	6.1	6.1	6.1	5.4	4.6	3.1	3.1	3.8	3.8	3.8
150°	4.6	5.4	5.4	5.4	4.6	3.8	2.3	2.3	3.1	3.8	3.8
152.5°	3.8	3.8	3.8	4.6	3.8	2.3	1.5	2.3	3.1	3.1	3.1
155°	2.3	3.1	3.1	3.1	3.1	2.3	1.5	2.3	2.3	3.1	3.1
157.5°	1.5	1.5	2.3	2.3	2.3	2.3	1.5	1.5	2.3	2.3	2.3
160°	0.8	0.8	1.5	2.3	2.3	2.3	1.5	1.5	2.3	2.3	2.3
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: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3
2.5°	155.3	154.6	153.0	151.5	150.7	150.7	149.2	148.4	146.1	146.1	145.4
5°	158.4	156.9	153.8	150.7	148.4	147.7	146.1	143.8	142.3	141.6	141.6
7.5°	165.3	163.0	156.9	153.0	150.0	147.7	146.1	143.8	142.3	141.6	141.6
10°	176.7	172.9	166.0	159.1	154.6	151.5	150.0	149.2	148.4	147.7	147.7
12.5°	198.9	193.6	182.1	173.7	164.5	159.9	158.4	159.9	163.7	165.3	166.0
15°	229.5	222.7	208.9	193.6	179.8	172.2	175.2	182.9	189.8	192.8	192.1
17.5°	267.8	257.1	240.3	219.6	200.5	196.6	199.7	208.1	218.1	222.7	221.9
20°	316.8	308.4	283.1	249.4	228.0	221.9	224.2	234.9	249.4	254.0	255.6
22.5°	384.1	371.9	332.8	286.2	257.9	246.4	248.7	262.4	282.3	293.0	295.3
25°	471.3	458.3	400.9	329.8	285.4	267.8	277.0	295.3	327.5	344.3	342.8
27.5°	572.3	550.1	475.2	383.3	317.5	290.0	303.8	333.6	367.3	388.7	387.2
30°	665.7	646.5	546.3	432.3	345.1	311.4	325.9	364.2	403.2	429.2	430.8
32.5°	805.7	770.5	629.7	474.4	367.3	329.0	342.8	389.5	434.6	466.0	465.2
35°	950.3	910.5	721.5	523.4	386.4	340.5	355.0	407.8	457.6	495.0	495.8
37.5°	1102.6	1046.7	803.4	555.5	401.7	347.4	361.9	420.8	484.3	527.2	528.7
40°	1205.1	1141.6	853.1	572.3	406.3	352.0	368.0	430.0	488.9	520.3	523.4
42.5°	1319.9	1230.3	879.1	558.6	400.9	351.2	369.6	423.1	469.0	491.2	493.5
45°	1478.2	1358.1	907.5	537.1	386.4	348.9	363.4	404.8	434.6	443.0	443.0
47.5°	1684.1	1513.4	954.9	514.2	371.1	342.0	352.7	379.5	391.0	389.5	385.6
50°	1931.2	1733.8	1012.3	494.3	356.6	333.6	340.5	355.8	359.6	355.0	352.7
52.5°	2177.6	1911.3	1052.1	476.7	347.4	325.9	330.5	342.0	342.0	328.2	325.9
55°	2403.3	2072.0	1041.4	443.0	340.5	322.1	326.7	335.1	328.2	312.2	309.1
57.5°	2768.3	2349.7	1068.9	410.1	330.5	321.4	327.5	332.8	322.9	307.6	304.5
60°	2833.3	2338.3	1003.9	389.5	323.7	323.7	330.5	336.7	329.8	316.0	315.2
62.5°	2923.6	2349.0	905.2	359.6	319.1	325.2	337.4	346.6	345.8	335.9	334.4
64°	2987.1	2364.3	870.0	345.8	315.2	325.2	342.8	356.6	356.6	345.1	345.1
65°	2924.4	2306.1	843.9	339.0	311.4	325.2	345.8	362.7	361.1	352.0	350.4
67.5°	2734.6	2117.1	733.8	323.7	303.0	325.2	354.3	372.6	374.9	367.3	364.2
70°	2502.8	1910.6	638.1	306.1	294.6	321.4	354.3	378.7	382.6	374.2	371.9
72.5°	2039.9	1536.4	526.4	286.9	282.3	312.2	349.7	375.7	379.5	369.6	366.5
75°	1710.1	1254.8	436.1	268.6	269.3	300.7	338.2	361.9	361.9	351.2	346.6
77.5°	1408.6	1013.0	361.1	251.0	254.0	286.2	317.5	332.8	328.2	318.3	312.2
80°	1055.1	765.1	297.6	231.8	234.9	262.4	288.5	299.2	294.6	282.3	280.8
82.5°	772.0	550.1	254.0	211.9	214.2	236.4	255.6	264.7	268.6	258.6	255.6
85°	507.3	387.9	218.1	192.1	193.6	210.4	222.7	230.3	238.7	235.7	234.1
87.5°	331.3	268.6	184.4	169.1	170.6	184.4	192.8	200.5	217.3	219.6	216.5
90°	222.7	188.2	152.3	146.1	148.4	159.9	164.5	172.2	190.5	193.6	193.6
92.5°	149.2	134.7	123.2	123.2	127.0	137.0	137.7	140.0	155.3	159.1	157.6
95°	104.8	100.2	99.5	101.0	105.6	113.2	109.4	107.9	117.8	118.6	117.1
97.5°	80.3	78.8	80.3	82.6	84.9	92.6	88.8	84.9	89.5	88.0	89.5
100°	64.3	63.5	65.8	65.8	68.1	75.0	71.9	69.6	70.4	67.3	67.3
102.5°	51.3	51.3	53.6	54.3	55.9	61.2	60.4	58.2	56.6	53.6	54.3
105°	39.8	40.6	43.6	44.4	46.7	51.3	50.5	47.4	45.9	42.1	42.8
107.5°	32.1	33.7	36.0	36.7	39.0	42.8	41.3	38.3	36.0	34.4	34.4



REPORT NUMBER: P416259

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T4W-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.8	27.5	29.8	30.6	32.9	36.0	35.2	31.4	28.3	27.5	28.3
112.5°	22.2	23.7	25.2	26.0	28.3	30.6	28.3	25.2	23.0	23.7	23.7
115°	19.1	19.9	21.4	22.2	23.7	26.0	23.7	20.7	19.1	19.9	20.7
117.5°	17.6	18.4	19.1	19.1	20.7	22.2	19.9	17.6	16.8	17.6	18.4
120°	15.3	16.1	16.8	17.6	18.4	19.1	17.6	15.3	14.5	16.1	16.1
122.5°	13.8	14.5	14.5	15.3	16.1	16.8	15.3	13.8	13.0	13.8	14.5
125°	12.2	13.0	13.8	13.8	14.5	14.5	13.8	12.2	12.2	13.0	13.0
127.5°	11.5	12.2	12.2	13.0	13.0	13.0	12.2	10.7	11.5	12.2	12.2
130°	11.5	11.5	11.5	11.5	11.5	11.5	10.7	9.9	10.7	11.5	11.5
132.5°	10.7	10.7	10.7	10.7	10.7	9.9	9.2	9.2	9.9	10.7	10.7
135°	9.9	9.9	9.2	9.2	9.2	9.2	8.4	8.4	8.4	9.2	9.2
137.5°	8.4	8.4	7.7	7.7	7.7	7.7	6.9	6.9	7.7	8.4	8.4
140°	6.9	6.9	6.1	6.1	6.1	6.1	6.1	6.1	6.9	6.9	7.7
142.5°	5.4	5.4	5.4	4.6	4.6	5.4	5.4	5.4	6.1	6.1	6.1
145°	4.6	4.6	4.6	3.8	3.8	4.6	4.6	4.6	5.4	5.4	5.4
147.5°	3.8	3.8	3.8	3.1	2.3	3.8	3.8	3.8	4.6	3.8	3.8
150°	3.8	3.8	3.1	2.3	2.3	2.3	3.1	3.1	3.1	3.1	3.1
152.5°	3.1	3.1	3.1	2.3	1.5	1.5	2.3	3.1	2.3	2.3	2.3
155°	3.1	3.1	2.3	2.3	1.5	0.8	1.5	2.3	1.5	1.5	1.5
157.5°	2.3	2.3	2.3	1.5	0.8	0.8	1.5	1.5	0.8	0.8	0.8
160°	2.3	2.3	1.5	1.5	0.8	0.8	1.5	1.5	0.8	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)