

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: P416501

Luminaire Tested: **LXF.LXT-PA1-70-827-U-T2U-A**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-10)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-70-827-U-T2U-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5832 lumens
Efficiency: N/A
Efficacy: 78.8 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 - G2

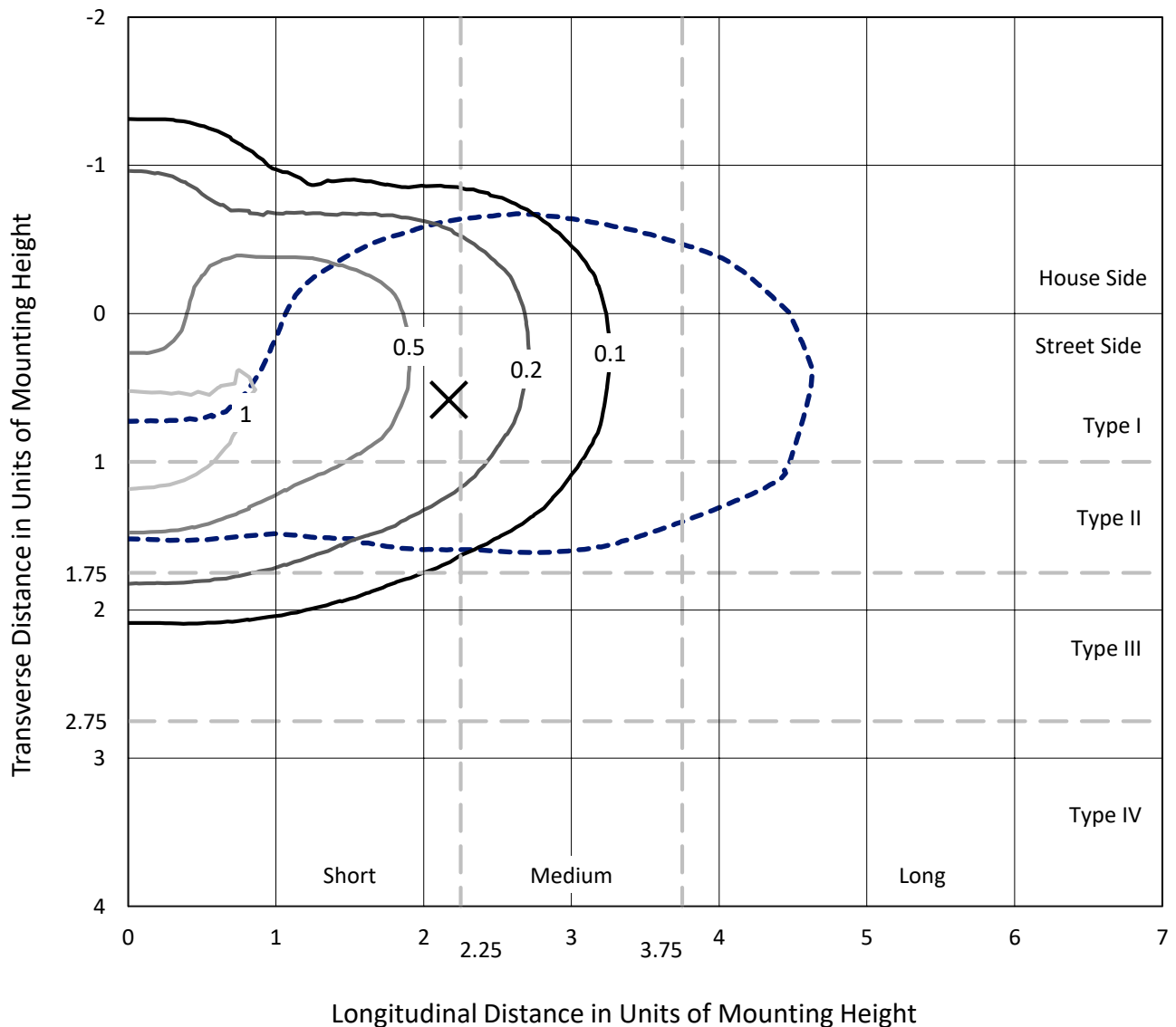
Input Watts (W): 74
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P416501
 CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

Iso-Footcandle Lines of Horizontal Illumination

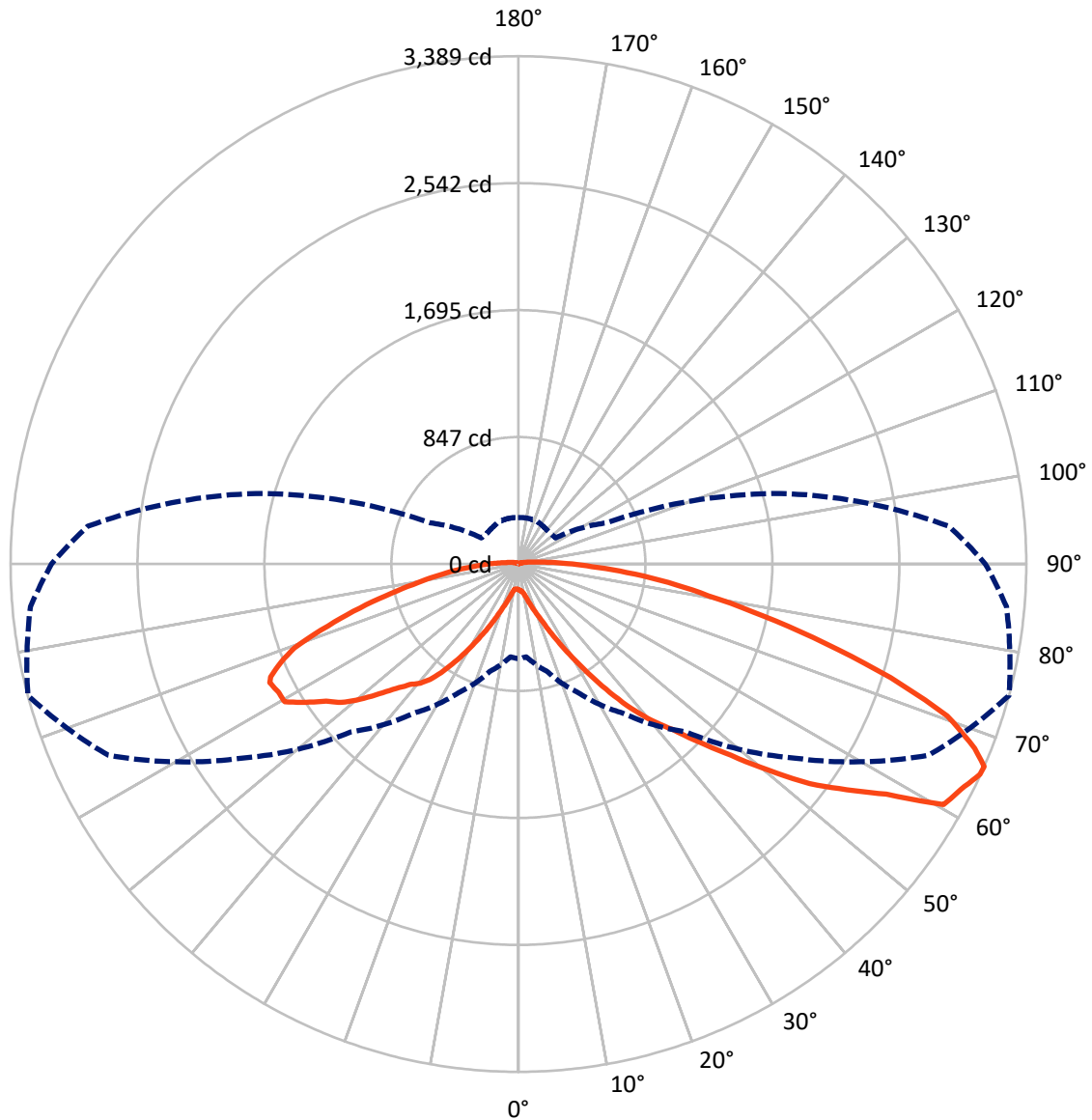
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P416501
CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P416501

CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.4	80.9	1737.3
	% Fixture	28.4	1.4	29.8
Street Side	Lumens	4014.7	80.0	4094.7
	% Fixture	68.8	1.4	70.2
Total	Lumens	5671.2	160.8	5832.0
	% Fixture	97.2	2.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	0.3
10°-20°	73.3	1.3
20°-30°	222.3	3.8
30°-40°	549.8	9.4
40°-50°	992.8	17.0
50°-60°	1341.4	23.0
60°-70°	1346.6	23.1
70°-80°	813.3	13.9
80°-90°	314.4	5.4
90°-100°	93.4	1.6
100°-110°	33.7	0.6
110°-120°	16.3	0.3
120°-130°	9.6	0.2
130°-140°	5.7	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5671.2	97.2
0°-180°	5832.0	100.0



REPORT NUMBER: P416501

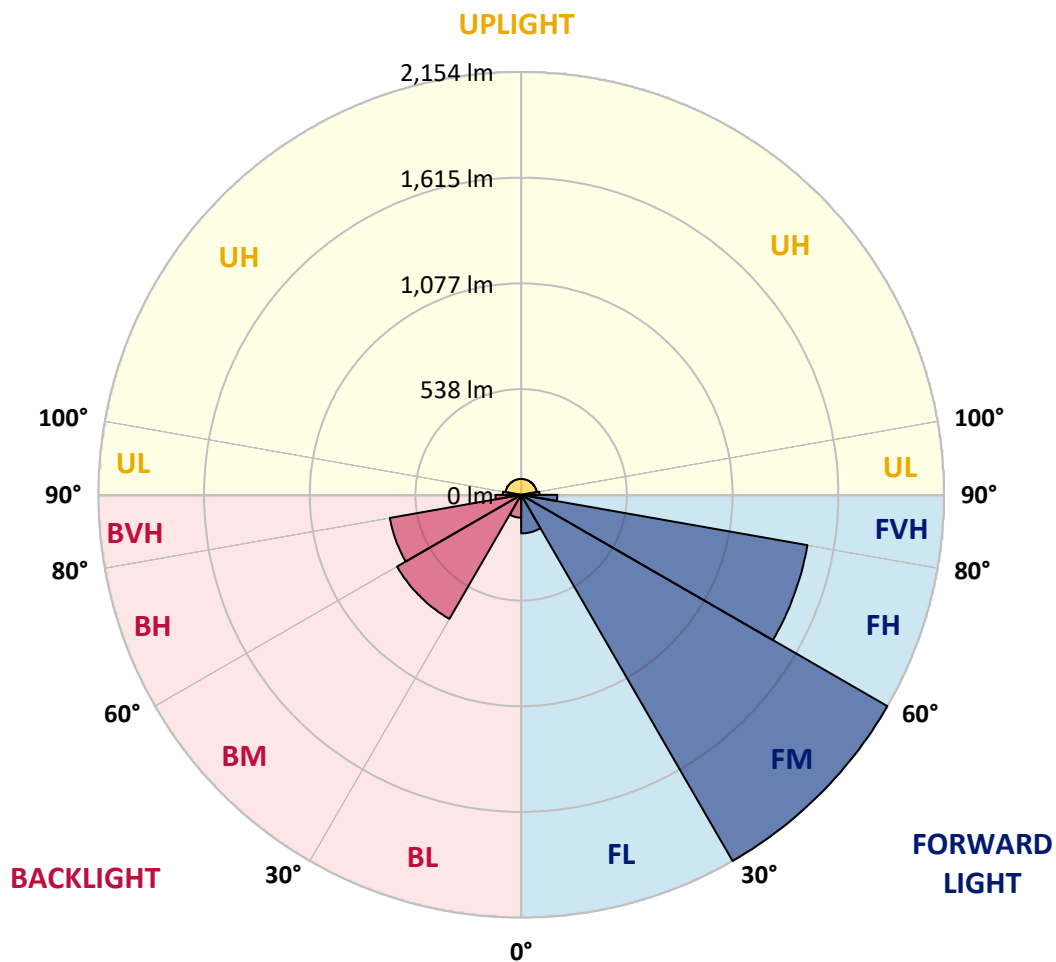
CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.5	3.4			
FM (30°-60°)	2153.8	36.9			
FH (60°-80°)	1480.8	25.4			G1/1800
FVH (80°-90°)	183.6	3.1			G2/225
BL (0°-30°)	116.4	2.0	B1/500		
BM (30°-60°)	730.1	12.5	B1/1000		
BH (60°-80°)	679.1	11.6	B2/1000		G2/1000
BVH (80°-90°)	130.8	2.2			G2/225
UL (90°-100°)	93.4	1.6		U3/500	
UH (100°-180°)	80.9	1.4		U3/500	

BUG Rating: B2-U3-G2

Type II Short





REPORT NUMBER: P416501

CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2
2.5°	189.7	188.3	187.0	185.6	184.3	182.9	180.2	176.9	174.2	174.2	171.5
5°	207.1	205.8	203.8	201.1	198.4	195.7	190.3	185.0	179.6	179.6	174.9
7.5°	228.7	228.0	225.3	221.9	215.9	209.8	203.1	195.0	187.6	187.0	180.9
10°	256.2	254.9	250.9	246.2	239.4	231.4	221.9	211.9	201.1	200.4	193.0
12.5°	294.6	291.9	285.2	277.8	265.0	256.9	246.2	236.7	228.7	226.7	216.6
15°	344.3	341.0	333.6	320.8	304.0	289.2	283.1	273.1	264.3	261.6	252.2
17.5°	408.2	404.9	392.1	371.9	354.4	339.6	326.2	316.1	308.7	308.0	294.6
20°	495.7	487.6	466.8	438.5	415.6	397.5	378.7	367.2	359.8	357.1	349.1
22.5°	603.3	601.3	571.7	534.7	497.0	464.1	443.2	430.4	425.1	425.7	421.0
25°	740.5	734.4	706.2	652.4	595.9	554.2	525.3	517.2	516.5	511.8	509.8
27.5°	887.1	879.0	842.0	790.3	715.6	659.1	626.8	618.1	620.1	614.7	618.8
30°	1066.7	1062.6	1008.8	933.5	852.8	778.8	745.2	737.8	742.5	749.2	745.2
32.5°	1288.6	1294.7	1221.4	1119.8	1006.8	921.4	884.4	881.7	888.4	887.1	885.1
35°	1559.0	1569.8	1468.2	1345.1	1189.8	1088.2	1041.8	1038.4	1051.9	1050.5	1051.9
37.5°	1848.2	1852.9	1770.2	1575.1	1394.2	1253.6	1215.3	1211.3	1224.1	1216.7	1209.3
40°	2076.2	2098.4	2001.5	1834.1	1598.0	1454.7	1408.3	1386.1	1374.7	1366.6	1312.8
42.5°	2292.1	2278.6	2210.0	2023.7	1807.2	1651.1	1589.3	1547.6	1510.6	1505.2	1446.0
45°	2433.3	2416.5	2351.3	2179.1	1976.0	1846.8	1789.7	1739.2	1697.5	1678.7	1607.4
47.5°	2441.4	2433.3	2417.8	2288.7	2111.2	1998.8	1980.0	1953.1	1907.4	1908.0	1816.6
50°	2318.3	2305.5	2350.6	2301.5	2178.4	2119.2	2190.5	2220.1	2161.6	2155.5	2060.7
52.5°	2100.4	2093.7	2175.7	2224.1	2180.4	2203.3	2372.8	2480.4	2434.7	2410.4	2288.0
55°	1879.8	1887.9	1959.2	2037.2	2109.1	2227.5	2534.2	2748.7	2658.6	2642.5	2489.8
57.5°	1579.2	1606.1	1712.3	1834.7	1947.7	2193.9	2618.9	2918.9	2896.0	2890.0	2759.5
60°	1249.6	1246.9	1404.3	1582.5	1768.2	2082.9	2623.6	3132.8	3259.9	3231.0	3046.7
62.5°	970.5	977.2	1090.2	1313.5	1562.4	1914.1	2559.1	3228.3	3313.0	3280.1	3119.3
65°	702.8	713.6	851.5	1031.7	1312.8	1686.1	2375.5	3098.5	3385.0	3364.8	3274.0
66°	631.5	622.1	743.2	947.6	1214.6	1585.2	2259.8	3019.8	3389.0	3377.6	3269.3
67.5°	507.8	519.9	613.4	791.6	1056.6	1424.5	2050.6	2894.0	3284.1	3268.6	3196.0
70°	376.0	387.4	451.3	593.9	801.7	1136.0	1695.5	2499.9	3036.6	3048.0	3040.0
72.5°	278.4	290.5	334.3	437.2	593.2	844.7	1343.8	2107.1	2596.7	2623.6	2604.8
75°	216.6	221.3	257.6	329.6	433.8	595.2	994.0	1633.0	2113.9	2163.6	2181.1
77.5°	174.2	178.2	207.8	254.2	324.8	434.5	696.8	1217.3	1673.3	1708.3	1741.3
80°	140.6	143.3	167.5	204.5	248.8	310.7	470.1	884.4	1283.9	1304.1	1352.5
82.5°	113.0	115.0	132.5	164.1	199.1	236.1	334.3	617.4	1008.2	1027.0	1088.2
85°	88.8	90.1	105.6	130.5	160.1	187.0	241.4	436.5	726.4	743.8	817.8
87.5°	69.9	71.3	83.4	101.6	129.1	148.0	178.2	293.9	490.3	515.2	599.2
90°	55.1	55.8	64.6	78.7	100.2	120.4	139.9	205.1	326.9	341.0	388.1
92.5°	41.7	42.4	49.1	59.9	78.0	95.5	106.9	141.9	209.2	215.2	248.8
95°	30.9	31.6	37.0	43.7	58.5	74.7	82.7	99.5	131.8	139.9	148.6
97.5°	24.2	24.9	28.2	32.3	43.0	58.5	65.9	73.3	90.1	92.8	99.5
100°	20.8	20.8	22.9	25.6	32.3	45.7	51.8	57.8	67.9	67.9	72.0
102.5°	17.5	17.5	18.8	20.2	26.2	36.3	41.7	45.7	51.1	51.8	55.1
105°	15.5	15.5	16.1	17.5	22.2	29.6	34.3	36.3	39.7	39.7	41.0
107.5°	13.5	13.5	14.1	14.8	19.5	24.9	27.6	28.2	29.6	29.6	31.6



REPORT NUMBER: P416501

CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	12.8	12.8	12.8	13.5	16.8	21.5	22.9	22.2	22.9	22.9	24.9
112.5°	12.1	11.4	11.4	12.1	15.5	18.8	18.8	18.2	18.2	18.2	20.2
115°	11.4	11.4	10.8	11.4	14.1	16.1	16.1	14.8	14.8	14.8	16.8
117.5°	11.4	11.4	10.8	10.8	12.8	14.8	14.1	12.8	12.1	12.8	14.8
120°	11.4	11.4	10.1	10.1	12.1	12.8	12.8	10.8	10.8	10.8	12.8
122.5°	11.4	11.4	10.1	10.1	11.4	12.1	11.4	9.4	9.4	9.4	11.4
125°	12.1	11.4	10.1	10.1	10.8	10.8	10.1	8.7	8.1	8.1	10.1
127.5°	12.1	12.1	10.8	10.1	10.1	10.1	9.4	8.1	7.4	7.4	9.4
130°	13.5	12.8	11.4	10.1	9.4	8.7	8.1	7.4	7.4	7.4	8.7
132.5°	13.5	13.5	11.4	9.4	8.7	8.1	7.4	6.1	6.7	6.7	8.1
135°	12.8	12.1	10.1	8.7	8.1	6.7	6.1	5.4	6.1	6.1	7.4
137.5°	11.4	10.8	9.4	7.4	6.7	5.4	4.7	4.0	4.7	4.7	6.1
140°	9.4	9.4	7.4	6.1	5.4	4.7	4.0	2.7	3.4	4.0	4.7
142.5°	8.1	7.4	6.1	4.7	4.0	3.4	2.7	2.0	2.7	2.7	3.4
145°	6.7	6.1	4.7	3.4	2.7	2.0	1.3	1.3	1.3	1.3	2.0
147.5°	5.4	4.7	3.4	2.0	1.3	1.3	0.7	0.7	1.3	1.3	1.3
150°	4.0	4.0	2.7	1.3	0.7	0.7	0.0	0.7	0.7	0.7	0.7
152.5°	3.4	3.4	2.0	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
155°	2.0	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	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: P416501

CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.2
2.5°	170.8	169.5	168.1	166.8	165.4	164.8	162.8	161.4	161.4	161.4	160.7
5°	172.8	170.2	166.8	164.1	160.7	158.1	156.0	154.0	152.7	152.7	152.7
7.5°	177.6	174.9	168.8	163.4	158.7	154.7	152.0	150.0	149.3	148.6	148.6
10°	188.3	183.6	175.5	167.5	160.7	155.4	152.7	151.3	150.7	150.7	150.7
12.5°	212.5	205.8	193.7	180.2	168.8	160.7	158.1	158.1	162.1	164.1	164.1
15°	244.8	238.8	224.6	205.8	187.6	174.2	172.2	176.9	182.3	185.0	184.3
17.5°	289.2	281.1	262.3	237.4	213.2	199.7	193.7	198.4	205.1	208.5	208.5
20°	341.7	333.6	308.0	274.4	244.8	230.0	220.6	220.6	229.3	232.0	233.4
22.5°	413.6	401.5	365.2	318.8	280.5	257.6	246.2	244.1	254.2	258.9	257.6
25°	494.3	484.9	442.5	373.3	323.5	286.5	271.0	271.0	283.8	294.6	295.3
27.5°	607.3	583.8	524.6	439.9	365.2	313.4	296.6	300.0	313.4	324.2	324.2
30°	725.7	708.9	622.1	510.5	405.6	338.3	314.1	319.5	331.6	343.7	343.7
32.5°	868.9	840.7	733.8	580.4	442.5	354.4	323.5	330.9	345.0	357.1	357.1
35°	1008.8	986.0	846.1	653.7	474.8	361.2	327.5	336.3	352.4	367.2	368.6
37.5°	1171.6	1121.8	955.7	719.6	498.4	362.5	326.2	341.7	363.2	380.0	380.7
40°	1269.1	1209.3	1029.7	768.7	509.1	357.8	326.2	345.7	363.9	369.9	369.2
42.5°	1384.8	1309.5	1081.5	774.8	495.7	348.4	325.5	341.0	349.1	349.1	348.4
45°	1540.2	1455.4	1163.5	778.1	468.1	337.0	320.1	330.2	328.2	322.2	320.1
47.5°	1730.5	1627.6	1267.8	790.3	441.2	325.5	314.1	316.8	307.4	293.9	293.2
50°	1957.8	1836.8	1390.2	803.0	417.7	316.1	308.7	306.0	296.6	285.2	283.8
52.5°	2171.0	2025.1	1501.1	811.8	398.2	310.0	304.7	304.0	294.6	279.8	278.4
55°	2364.0	2189.2	1575.8	795.0	380.7	307.4	304.7	305.3	293.2	278.4	276.4
57.5°	2643.2	2451.5	1694.2	770.1	359.8	306.7	306.7	307.4	292.6	278.4	276.4
60°	2885.9	2672.7	1810.5	768.1	339.6	306.0	307.4	306.7	295.9	287.2	285.2
62.5°	2969.3	2766.2	1815.9	719.6	326.9	302.7	304.7	308.0	306.0	302.0	300.0
65°	3126.7	2904.8	1838.8	665.2	308.7	296.6	301.3	310.0	311.4	308.7	306.7
66°	3115.3	2885.3	1816.6	648.3	302.7	293.2	299.3	308.7	311.4	310.7	309.4
67.5°	3058.8	2834.8	1743.3	600.6	293.9	287.2	295.9	305.3	311.4	313.4	312.1
70°	2906.1	2682.8	1597.3	528.6	277.1	273.1	285.2	297.3	307.4	310.7	310.0
72.5°	2476.4	2263.8	1336.4	451.3	253.6	252.9	267.0	281.8	293.9	297.3	295.9
75°	2078.9	1869.7	1097.6	371.9	229.3	230.0	243.5	257.6	267.0	267.0	267.7
77.5°	1666.6	1489.7	869.6	308.7	204.5	204.5	213.9	225.3	231.4	228.7	224.6
80°	1281.9	1164.9	679.3	258.3	179.6	178.2	182.9	191.7	196.4	190.3	185.6
82.5°	1035.1	934.2	537.4	215.2	155.4	154.0	156.0	162.1	164.8	158.1	156.0
85°	785.5	694.8	404.2	176.9	134.5	131.1	134.5	135.9	139.2	133.2	129.1
87.5°	555.5	492.3	293.2	147.3	115.0	113.0	112.3	113.7	115.7	111.6	109.6
90°	373.3	327.5	211.9	123.1	98.2	94.8	93.5	93.5	94.8	88.1	86.1
92.5°	239.4	211.9	147.3	98.2	82.1	78.0	75.3	76.0	75.3	68.6	67.3
95°	149.3	135.2	106.3	77.3	65.9	62.5	59.9	59.2	58.5	53.8	52.5
97.5°	97.5	92.8	79.4	61.2	52.5	49.8	48.4	47.8	47.8	44.4	42.4
100°	72.6	70.6	62.5	51.1	43.0	41.0	39.7	39.7	41.0	38.3	37.0
102.5°	56.5	57.2	51.1	43.0	36.3	35.0	33.6	33.6	35.0	33.6	33.0
105°	43.0	43.0	41.7	35.6	30.9	30.3	28.9	28.9	30.3	30.3	30.3
107.5°	33.6	35.0	33.6	29.6	26.9	26.2	24.9	24.9	26.2	26.9	27.6



REPORT NUMBER: P416501

CATALOG NUMBER: LXF.LXT-PA1-70-827-U-T2U-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.9	28.2	27.6	25.6	23.5	22.9	21.5	20.8	22.2	24.2	24.2
112.5°	21.5	22.9	22.9	21.5	20.2	20.2	18.8	18.2	19.5	21.5	21.5
115°	18.2	19.5	19.5	18.8	18.2	17.5	16.1	15.5	16.8	18.8	19.5
117.5°	15.5	16.8	16.8	16.8	16.1	15.5	14.1	13.5	14.1	16.1	16.8
120°	14.1	14.8	14.8	14.8	14.1	14.1	12.8	12.1	12.8	14.8	14.8
122.5°	12.1	12.8	13.5	13.5	12.8	12.8	11.4	10.1	10.8	12.8	13.5
125°	10.8	11.4	12.1	12.1	11.4	11.4	10.1	9.4	10.1	11.4	12.1
127.5°	10.1	10.8	10.8	10.8	10.8	10.1	8.7	8.1	8.7	10.8	10.8
130°	9.4	10.1	10.1	10.1	9.4	8.7	8.1	7.4	8.1	10.1	10.1
132.5°	8.7	9.4	9.4	8.7	8.7	8.1	6.7	6.1	7.4	8.7	8.7
135°	7.4	8.1	8.1	8.1	7.4	6.7	6.1	5.4	6.7	7.4	7.4
137.5°	6.1	6.7	6.7	6.7	6.1	5.4	4.7	4.7	5.4	6.7	6.7
140°	4.7	5.4	5.4	5.4	4.7	4.7	4.0	3.4	4.7	5.4	5.4
142.5°	3.4	4.0	4.0	4.0	3.4	3.4	2.7	2.7	4.0	4.7	4.7
145°	2.0	2.7	2.7	2.7	2.7	2.0	2.0	2.0	2.7	3.4	3.4
147.5°	1.3	2.0	2.0	2.0	2.0	1.3	0.7	1.3	2.0	2.7	2.7
150°	0.7	1.3	1.3	1.3	1.3	0.7	0.0	0.7	1.3	2.0	2.0
152.5°	0.7	0.7	1.3	1.3	0.7	0.7	0.0	0.0	0.7	0.7	0.7
155°	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.0
157.5°	0.0	0.0	0.0	0.7	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)