

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: P255011

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-FL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255011
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-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 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: 8012 lumens
Efficiency: N/A
Efficacy: 83.5 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 (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

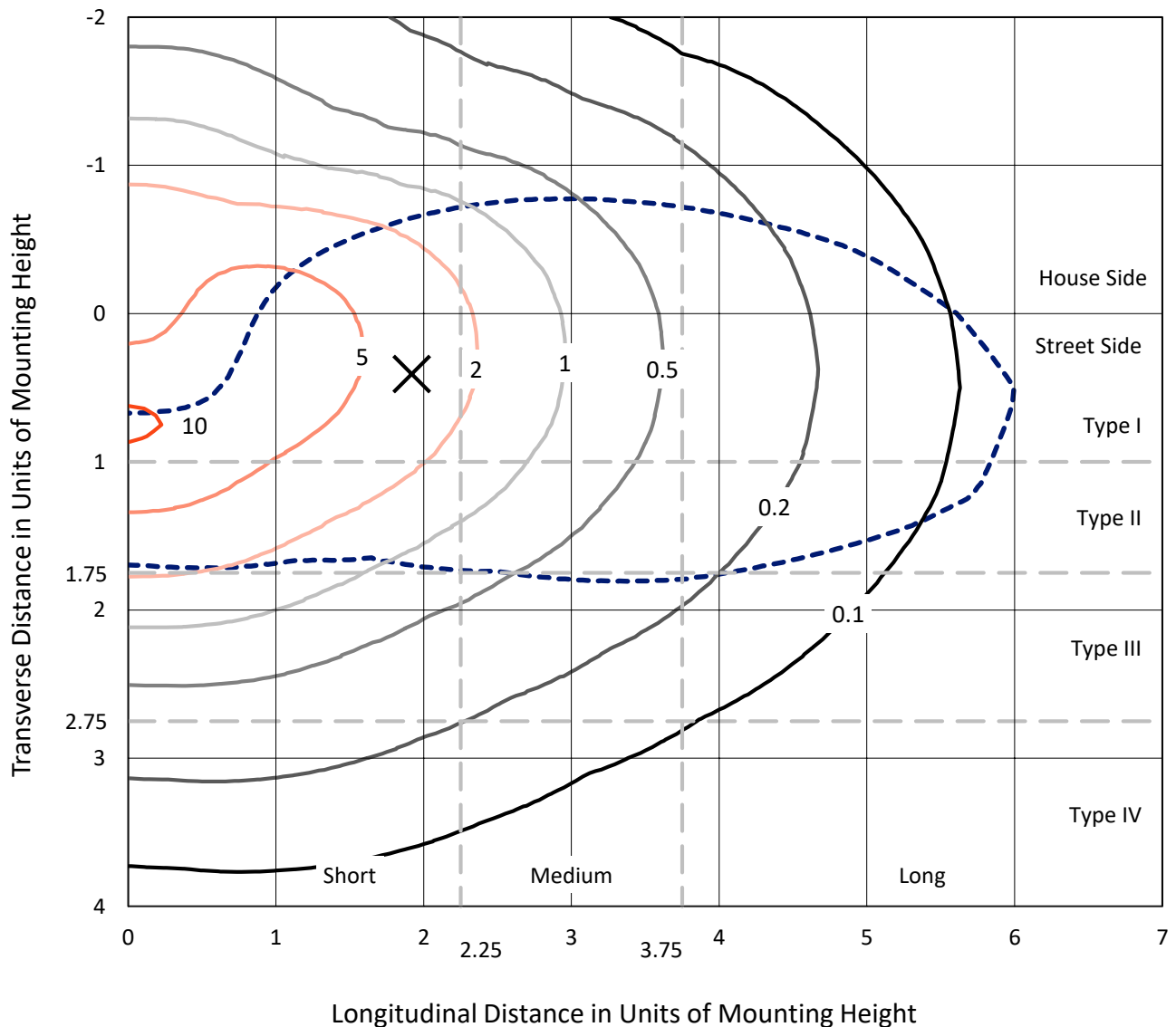


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

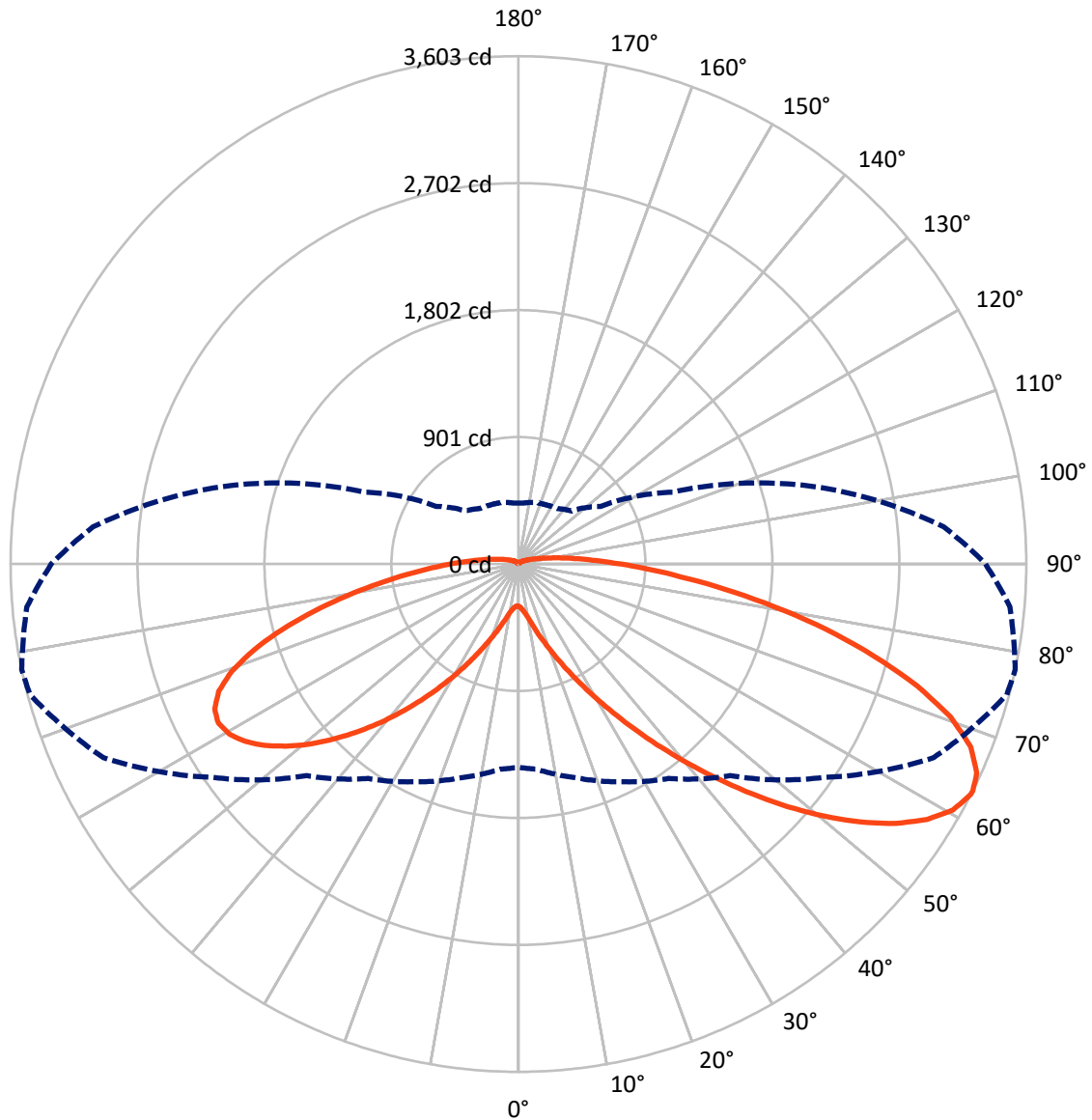


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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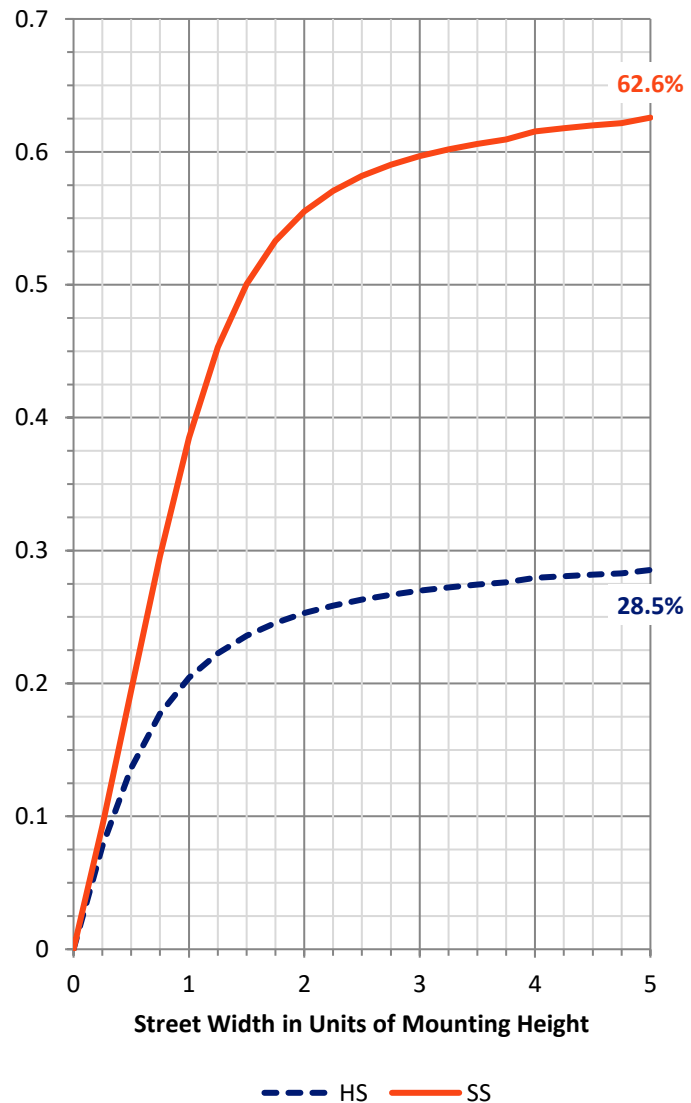
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.0	217.6	2597.5
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	5145.1	269.4	5414.5
	% Fixture	64.2	3.4	67.6
Total	Lumens	7525.0	487.0	8012.0
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.4
10°-20°	136.5	1.7
20°-30°	356.9	4.5
30°-40°	741.1	9.2
40°-50°	1248.2	15.6
50°-60°	1640.7	20.5
60°-70°	1624.5	20.3
70°-80°	1156.5	14.4
80°-90°	588.6	7.3
90°-100°	256.1	3.2
100°-110°	117.2	1.5
110°-120°	59.6	0.7
120°-130°	31.7	0.4
130°-140°	15.8	0.2
140°-150°	5.6	0.1
150°-160°	0.9	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7525.0	93.9
0°-180°	8012.0	100.0



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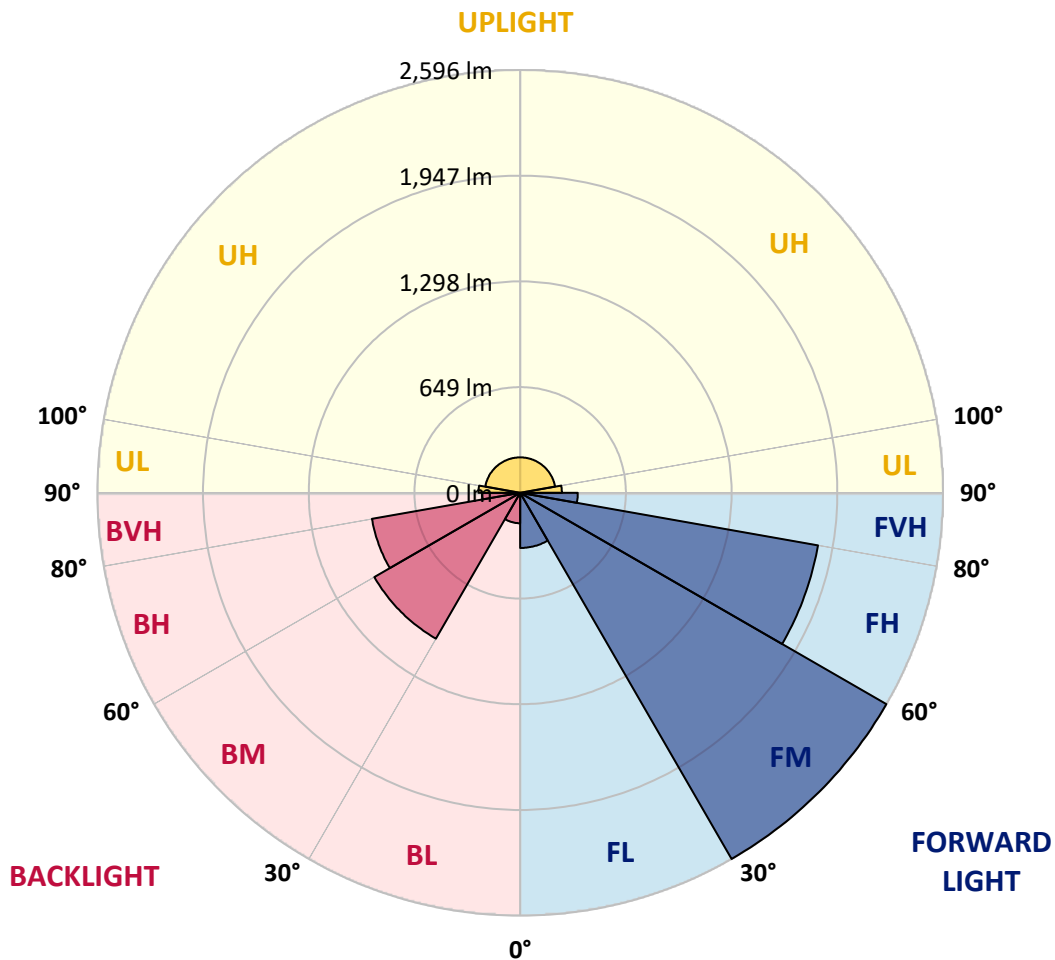
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.6	4.2			
FM (30°-60°)	2596.1	32.4			
FH (60°-80°)	1856.8	23.2			G2/5000
FVH (80°-90°)	353.5	4.4			G3/500
BL (0°-30°)	186.7	2.3	B1/500		
BM (30°-60°)	1033.9	12.9	B2/2500		
BH (60°-80°)	924.2	11.5	B2/1000		G2/1000
BVH (80°-90°)	235.1	2.9			G3/500
UL (90°-100°)	256.1	3.2		U3/500	
UH (100°-180°)	217.6	2.7		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8
2.5°	332.7	333.7	333.7	331.7	329.9	325.9	322.1	317.3	310.6	309.5	304.8
5°	372.3	373.3	372.3	368.5	364.6	357.9	350.1	341.4	329.9	328.9	320.1
7.5°	420.7	421.7	420.7	414.0	407.2	397.4	386.9	374.3	357.9	355.0	343.4
10°	480.7	482.6	479.7	473.9	462.2	447.9	434.3	415.9	398.5	391.7	377.2
12.5°	557.1	557.1	551.3	542.6	528.0	509.7	492.3	470.1	450.7	441.1	425.6
15°	642.2	643.2	635.5	624.9	609.3	581.3	561.9	538.7	514.6	505.9	483.6
17.5°	739.9	741.9	732.1	716.7	695.4	667.3	643.2	616.1	588.1	573.6	550.3
20°	854.1	854.1	843.4	823.0	796.1	765.1	734.1	703.2	672.2	654.8	630.7
22.5°	983.7	983.7	971.1	944.0	905.3	871.5	837.6	802.8	768.9	750.6	719.6
25°	1133.6	1139.3	1115.2	1081.3	1037.9	990.4	956.6	915.9	879.2	858.9	825.0
27.5°	1302.8	1305.7	1275.7	1225.5	1169.4	1120.0	1082.3	1045.6	1004.9	983.7	943.0
30°	1484.8	1478.9	1451.8	1391.9	1318.3	1258.3	1220.7	1186.8	1140.3	1124.0	1079.4
32.5°	1680.1	1676.1	1641.4	1559.1	1479.8	1407.3	1366.8	1345.4	1299.0	1280.6	1233.2
35°	1886.1	1879.3	1837.7	1751.7	1647.2	1567.9	1531.0	1520.5	1478.0	1459.4	1402.5
37.5°	2101.7	2086.3	2034.1	1924.7	1816.4	1732.3	1715.8	1700.4	1672.3	1653.0	1585.3
40°	2273.9	2267.1	2214.9	2100.8	1983.7	1913.1	1902.5	1913.1	1886.1	1863.9	1785.6
42.5°	2413.2	2408.4	2366.8	2254.6	2137.5	2072.7	2084.3	2119.2	2110.5	2088.3	2001.2
45°	2509.9	2505.1	2475.2	2378.3	2271.1	2223.7	2275.9	2339.7	2345.5	2327.1	2224.6
47.5°	2543.8	2541.0	2524.4	2453.9	2371.6	2360.0	2463.5	2564.1	2588.3	2572.8	2456.7
50°	2500.3	2502.1	2508.0	2476.1	2425.8	2458.7	2611.6	2777.8	2830.1	2812.7	2688.9
52.5°	2388.1	2394.9	2422.9	2433.5	2425.8	2509.9	2735.3	2971.3	3060.3	3040.9	2913.3
55°	2215.9	2225.6	2274.9	2330.1	2369.8	2506.1	2812.7	3134.7	3262.4	3249.0	3116.4
57.5°	1989.6	2009.0	2075.6	2173.3	2253.6	2446.1	2835.0	3246.9	3427.8	3418.1	3289.5
60°	1739.1	1755.5	1847.3	1975.1	2091.1	2329.1	2786.5	3295.3	3540.0	3543.0	3421.0
62.5°	1490.6	1508.9	1617.1	1749.7	1897.8	2160.7	2671.5	3266.3	3586.4	3600.9	3495.5
63°	1442.1	1460.5	1568.9	1704.2	1857.1	2123.0	2640.5	3249.8	3586.4	3603.0	3500.3
65°	1254.6	1271.9	1379.3	1520.5	1681.9	1958.6	2490.6	3153.1	3547.7	3572.9	3492.6
67.5°	1035.9	1054.3	1162.6	1301.9	1457.6	1726.6	2254.6	2954.0	3415.2	3460.7	3409.4
70°	851.1	870.5	969.1	1100.7	1245.8	1490.6	1984.7	2685.9	3202.5	3251.8	3232.4
72.5°	701.2	717.8	814.4	924.7	1054.3	1271.9	1708.2	2363.0	2897.8	2957.7	2969.3
75°	572.6	590.0	675.1	773.8	888.0	1070.7	1440.1	2021.6	2520.6	2603.7	2636.7
77.5°	467.2	483.6	559.1	645.1	741.9	891.8	1193.5	1682.9	2133.8	2234.3	2276.9
80°	381.1	396.6	458.5	536.8	619.1	739.9	977.9	1356.0	1750.7	1841.6	1886.1
82.5°	309.5	323.1	377.2	445.9	515.4	613.2	797.9	1085.2	1398.6	1475.0	1499.1
85°	249.5	261.1	309.5	369.6	428.6	503.9	645.1	857.9	1093.9	1153.9	1183.9
87.5°	199.3	208.9	252.5	304.8	355.0	423.6	522.3	683.9	846.3	890.8	910.1
90°	161.4	169.3	205.1	249.5	295.0	345.3	423.6	532.0	650.9	682.9	696.4
92.5°	131.5	137.3	169.3	206.1	246.6	292.0	345.3	420.7	501.1	522.3	531.0
95°	110.3	112.2	140.3	172.2	205.1	243.7	282.4	334.7	386.9	401.4	405.3
97.5°	89.9	92.9	117.0	146.1	174.0	203.1	231.2	267.9	300.8	309.5	310.6
100°	77.3	78.3	98.7	124.8	148.9	172.2	192.6	214.7	234.1	237.0	239.0
102.5°	65.8	66.7	84.1	108.2	128.6	147.9	163.5	176.0	183.8	184.7	184.7
105°	57.1	58.0	72.5	93.9	112.2	126.7	139.3	144.1	146.1	145.1	145.1
107.5°	51.3	51.3	63.8	82.2	98.7	111.2	119.0	119.9	117.0	115.0	115.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	45.5	46.4	56.0	73.5	88.1	97.7	103.5	100.6	94.8	92.9	92.9
112.5°	41.6	42.6	49.2	64.8	77.3	87.1	89.9	85.1	77.3	75.4	76.4
115°	38.7	38.7	44.5	57.1	69.6	77.3	78.3	72.5	63.8	62.9	63.8
117.5°	35.8	35.8	39.7	51.3	62.0	68.8	68.8	62.0	54.2	52.2	53.2
120°	33.9	33.9	36.7	45.5	55.1	60.9	60.0	53.2	45.5	45.5	46.4
122.5°	31.9	31.9	33.9	40.7	49.2	54.2	53.2	45.5	38.7	38.7	39.7
125°	29.9	29.9	30.9	36.7	43.4	47.4	46.4	38.7	33.9	33.9	34.9
127.5°	28.1	28.1	29.1	32.9	38.7	41.6	39.7	32.9	29.9	29.9	30.9
130°	27.1	27.1	27.1	29.1	33.9	36.7	33.9	28.1	26.1	26.1	27.1
132.5°	25.1	25.1	25.1	26.1	29.1	30.9	29.1	24.1	23.2	23.2	24.1
135°	24.1	24.1	23.2	23.2	25.1	26.1	23.2	20.3	20.3	20.3	21.3
137.5°	22.3	22.3	21.3	20.3	21.3	21.3	19.3	16.4	17.4	17.4	18.3
140°	20.3	20.3	19.3	17.4	16.4	16.4	14.5	13.5	14.5	14.5	15.6
142.5°	17.4	17.4	16.4	14.5	12.6	11.6	10.6	10.6	11.6	11.6	12.6
145°	14.5	14.5	13.5	11.6	9.8	8.7	7.7	7.7	8.7	8.7	9.8
147.5°	11.6	11.6	10.6	8.7	6.8	4.8	4.8	5.8	6.8	6.8	6.8
150°	9.8	9.8	8.7	6.8	3.9	2.9	1.9	2.9	3.9	3.9	3.9
152.5°	6.8	6.8	5.8	3.9	2.9	1.0	1.0	1.9	2.9	2.9	2.9
155°	3.9	3.9	2.9	1.9	1.0	1.0	1.0	1.0	1.9	1.9	1.9
157.5°	1.9	1.9	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8
2.5°	302.7	300.8	296.0	291.1	287.3	284.4	282.4	279.4	278.6	277.6	277.6
5°	315.3	310.6	301.8	293.1	285.2	278.6	272.7	267.9	265.1	263.1	264.1
7.5°	335.7	327.9	315.3	301.8	289.2	279.4	270.9	265.1	260.1	257.3	257.3
10°	367.5	356.9	337.6	318.2	302.7	288.2	277.6	268.9	263.1	260.1	260.1
12.5°	413.0	399.5	372.3	345.3	324.1	304.8	291.1	282.4	280.5	277.6	277.6
15°	467.2	450.7	417.8	383.1	354.0	327.9	316.3	308.5	303.7	299.8	299.8
17.5°	531.0	509.7	468.1	425.6	389.8	362.7	343.4	332.7	326.9	324.1	324.1
20°	604.5	578.4	527.1	473.9	429.5	400.4	374.3	357.9	352.1	349.2	348.2
22.5°	689.7	657.7	595.8	529.1	476.8	438.1	407.2	383.1	376.3	373.3	371.4
25°	791.1	755.4	673.1	591.9	527.1	473.9	436.2	409.1	399.5	396.6	395.6
27.5°	905.3	861.8	761.2	661.6	574.4	505.9	461.4	433.3	420.7	416.9	417.8
30°	1032.9	981.7	857.9	732.1	620.9	534.9	481.8	451.7	438.1	434.3	434.3
32.5°	1175.2	1107.5	963.3	806.7	664.6	559.1	499.1	468.1	451.7	448.8	448.8
35°	1331.9	1261.3	1077.6	882.0	703.2	578.4	511.7	480.7	463.3	459.4	459.4
37.5°	1511.7	1419.0	1198.3	954.6	736.1	592.9	520.4	488.5	471.0	465.2	465.2
40°	1694.6	1587.2	1324.1	1023.3	764.0	601.6	525.2	492.3	475.9	468.1	467.2
42.5°	1894.8	1760.3	1452.7	1086.1	783.5	606.5	526.2	495.2	477.8	468.1	466.2
45°	2102.7	1957.6	1571.7	1140.3	797.9	606.5	525.2	494.3	477.8	465.2	463.3
47.5°	2312.6	2148.1	1695.4	1185.8	804.7	603.5	523.3	493.3	476.8	461.4	459.4
50°	2531.2	2338.7	1812.6	1221.6	803.7	597.7	518.4	490.3	473.0	456.4	454.6
52.5°	2736.3	2513.8	1919.9	1246.7	797.9	589.0	512.7	487.6	470.1	451.7	449.7
55°	2935.5	2689.9	2012.8	1260.3	785.3	578.4	506.9	483.6	467.2	446.9	445.9
57.5°	3096.1	2837.8	2085.3	1259.3	767.0	564.9	500.1	478.8	463.3	443.9	442.1
60°	3227.6	2956.8	2131.7	1244.8	744.7	551.3	492.3	473.0	459.4	440.1	437.1
62.5°	3305.0	3023.5	2143.3	1213.9	717.8	535.8	481.8	464.3	452.7	435.3	432.3
63°	3313.8	3029.3	2140.5	1206.1	711.9	532.0	479.7	463.3	451.7	434.3	431.3
65°	3310.8	3027.3	2112.4	1166.5	686.7	516.5	470.1	454.6	444.9	428.6	425.6
67.5°	3235.3	2954.0	2033.1	1100.7	650.0	496.1	454.6	442.1	432.3	417.8	414.9
70°	3072.0	2797.1	1899.6	1018.6	609.3	473.0	435.3	425.6	415.9	402.4	398.5
72.5°	2830.1	2566.1	1720.8	930.5	566.8	445.9	414.0	404.3	396.6	384.9	378.1
75°	2514.7	2272.9	1513.7	831.8	520.4	417.8	387.9	380.1	370.5	359.8	354.0
77.5°	2148.1	1938.3	1295.0	730.3	473.0	385.9	359.8	351.0	342.4	330.8	323.1
80°	1777.7	1601.7	1078.5	631.6	425.6	352.1	328.9	321.1	310.6	297.9	290.2
82.5°	1425.8	1288.3	882.0	540.8	379.1	318.2	296.9	287.3	275.7	263.1	258.3
85°	1113.3	1012.8	710.9	458.5	333.7	284.4	265.1	255.3	240.8	226.2	220.4
87.5°	858.9	785.3	570.7	385.9	292.0	251.6	232.1	220.4	206.9	192.6	187.6
90°	658.8	608.3	456.4	324.9	254.3	218.6	203.1	192.6	177.0	162.5	158.7
92.5°	504.9	471.0	366.6	273.7	217.7	191.5	178.0	166.4	150.9	136.3	133.6
95°	387.9	365.6	296.0	229.2	188.6	167.2	155.7	143.1	127.8	114.1	111.2
97.5°	300.8	285.2	239.0	193.4	163.5	146.1	136.3	123.8	108.2	95.7	93.9
100°	233.0	223.4	194.4	162.5	142.1	127.8	118.0	107.4	92.9	79.3	79.3
102.5°	181.8	176.0	159.6	139.3	123.8	113.2	104.5	92.9	78.3	67.7	66.7
105°	144.1	141.2	131.5	119.0	108.2	99.7	91.9	80.3	66.7	57.1	57.1
107.5°	115.0	114.1	109.3	101.6	94.8	88.1	81.3	69.6	57.1	49.2	49.2



REPORT NUMBER: P255011

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-FL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	93.9	93.9	91.9	87.1	83.1	77.3	70.6	60.9	48.4	42.6	42.6
112.5°	77.3	78.3	77.3	75.4	73.5	68.8	62.9	52.2	41.6	37.7	37.7
115°	64.8	65.8	65.8	65.8	64.8	60.9	55.1	45.5	35.8	32.9	32.9
117.5°	55.1	56.0	57.1	57.1	56.0	53.2	48.4	39.7	30.9	29.1	29.9
120°	47.4	48.4	49.2	50.3	49.2	47.4	41.6	33.9	27.1	26.1	26.1
122.5°	41.6	42.6	42.6	43.4	43.4	41.6	36.7	29.1	23.2	23.2	23.2
125°	35.8	36.7	37.7	37.7	38.7	35.8	30.9	24.1	20.3	20.3	21.3
127.5°	31.9	31.9	31.9	32.9	32.9	30.9	27.1	20.3	17.4	18.3	18.3
130°	28.1	28.1	29.1	29.1	29.1	27.1	22.3	17.4	15.6	16.4	16.4
132.5°	24.1	25.1	25.1	24.1	24.1	23.2	18.3	14.5	13.5	14.5	14.5
135°	21.3	22.3	22.3	20.3	20.3	18.3	15.6	11.6	12.6	12.6	13.5
137.5°	18.3	19.3	18.3	17.4	16.4	15.6	12.6	9.8	10.6	11.6	11.6
140°	15.6	15.6	15.6	14.5	13.5	11.6	9.8	7.7	9.8	9.8	9.8
142.5°	12.6	12.6	12.6	11.6	9.8	8.7	6.8	6.8	7.7	7.7	7.7
145°	9.8	9.8	9.8	8.7	6.8	5.8	4.8	4.8	5.8	6.8	6.8
147.5°	6.8	6.8	6.8	5.8	3.9	2.9	2.9	3.9	4.8	4.8	4.8
150°	4.8	4.8	4.8	3.9	2.9	1.9	1.9	2.9	2.9	3.9	3.9
152.5°	2.9	3.9	3.9	2.9	1.9	1.0	1.0	1.9	1.9	1.9	1.9
155°	1.9	1.9	2.9	1.9	1.9	1.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.9	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)