

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: P254903

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T4W-FL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)
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-T4W-FL-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7932.3 lumens
Efficiency: N/A
Efficacy: 82.6 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 - G4

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

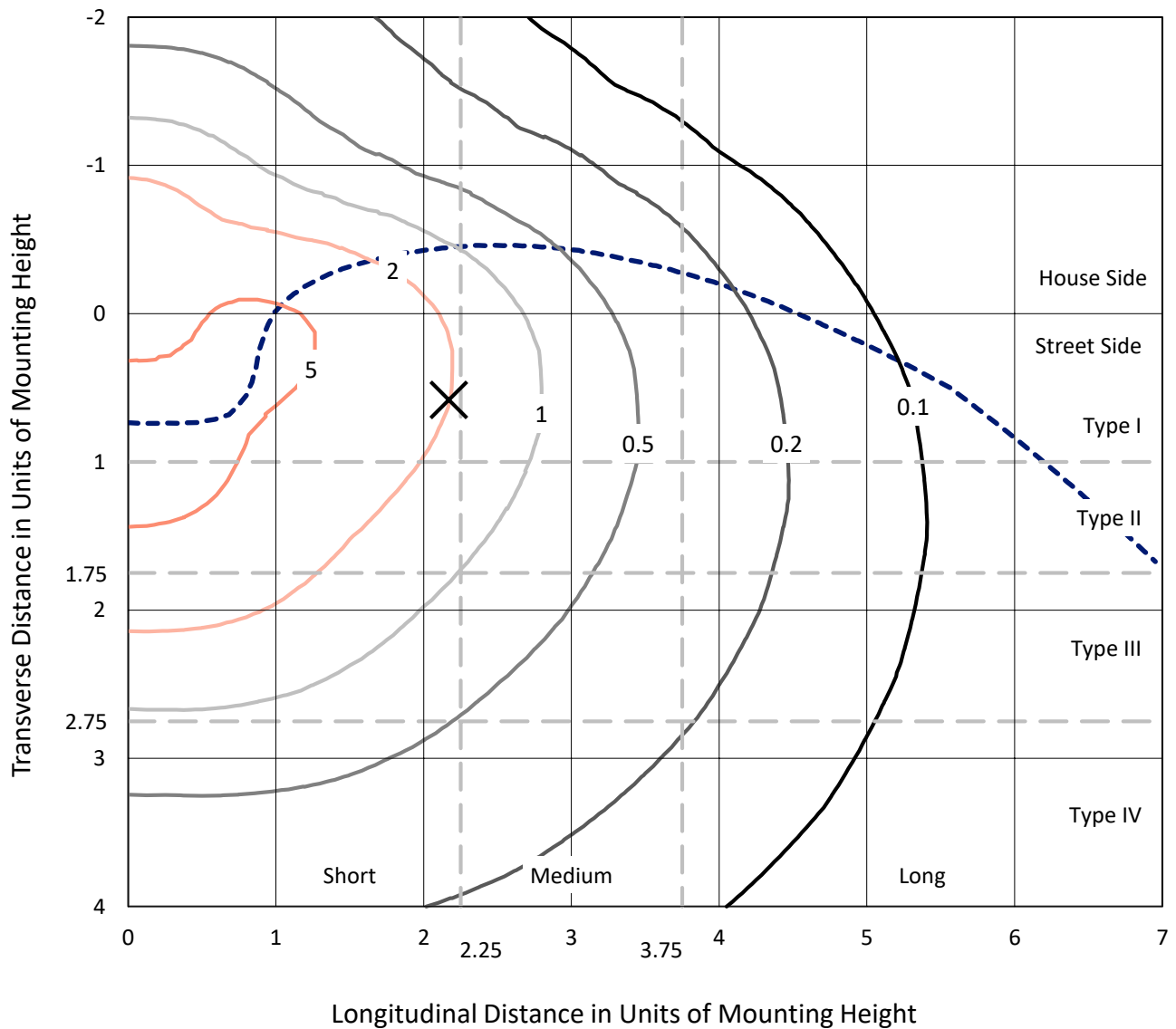


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

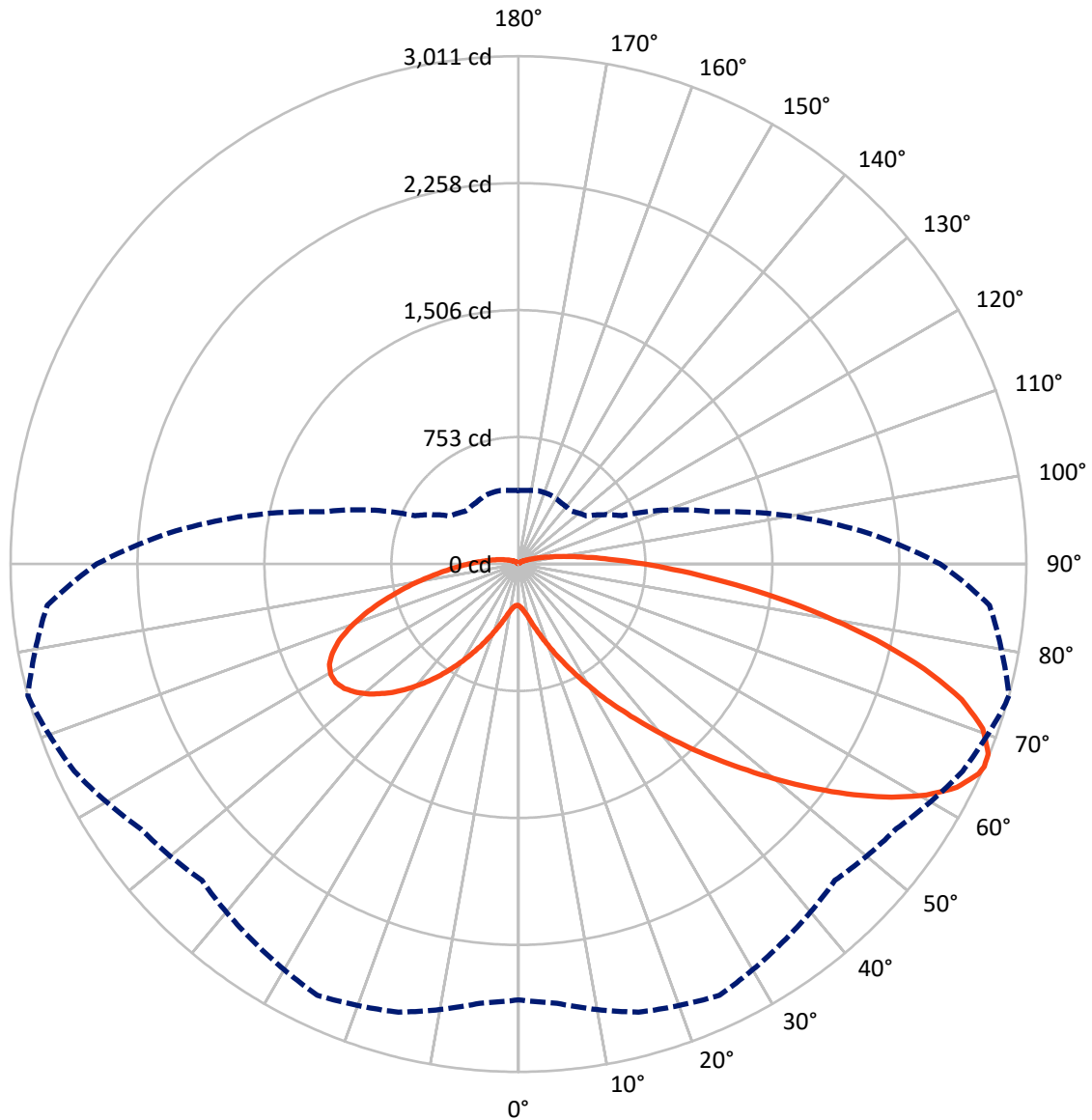


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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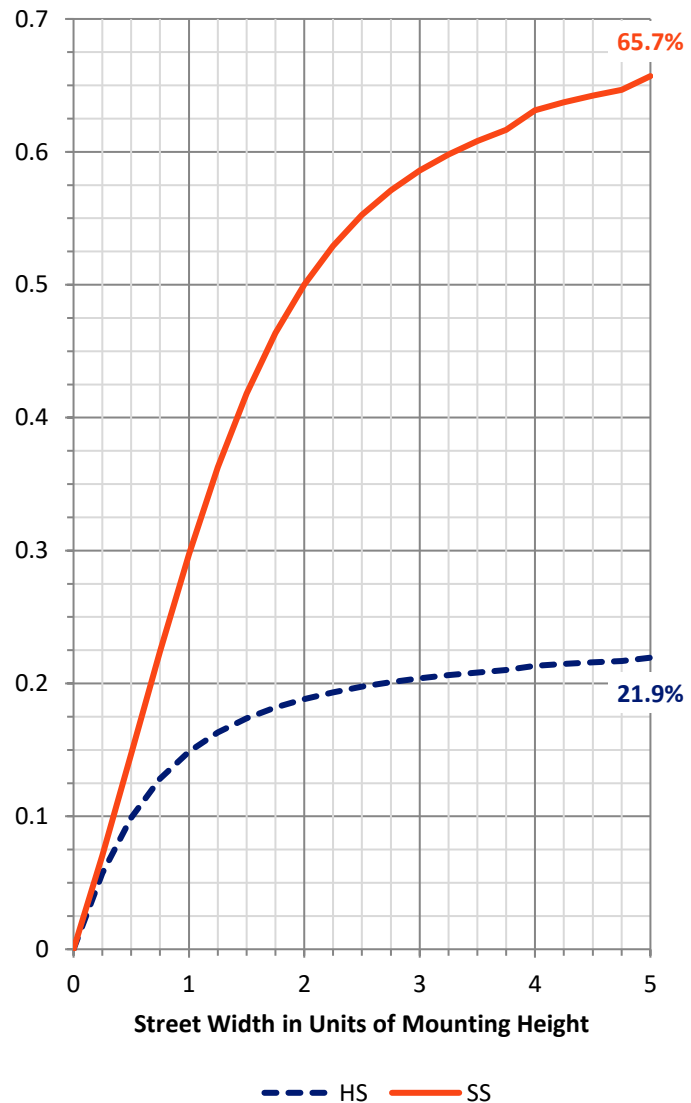
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.1	198.1	2036.2
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	5511.8	384.3	5896.0
	% Fixture	69.5	4.8	74.3
Total	Lumens	7349.9	582.3	7932.3
	% Fixture	92.7	7.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.3
10°-20°	109.9	1.4
20°-30°	277.9	3.5
30°-40°	556.1	7.0
40°-50°	945.5	11.9
50°-60°	1406.9	17.7
60°-70°	1727.5	21.8
70°-80°	1485.6	18.7
80°-90°	814.4	10.3
90°-100°	339.8	4.3
100°-110°	138.9	1.8
110°-120°	61.2	0.8
120°-130°	27.9	0.4
130°-140°	11.5	0.1
140°-150°	2.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7349.9	92.7
0°-180°	7932.3	100.0



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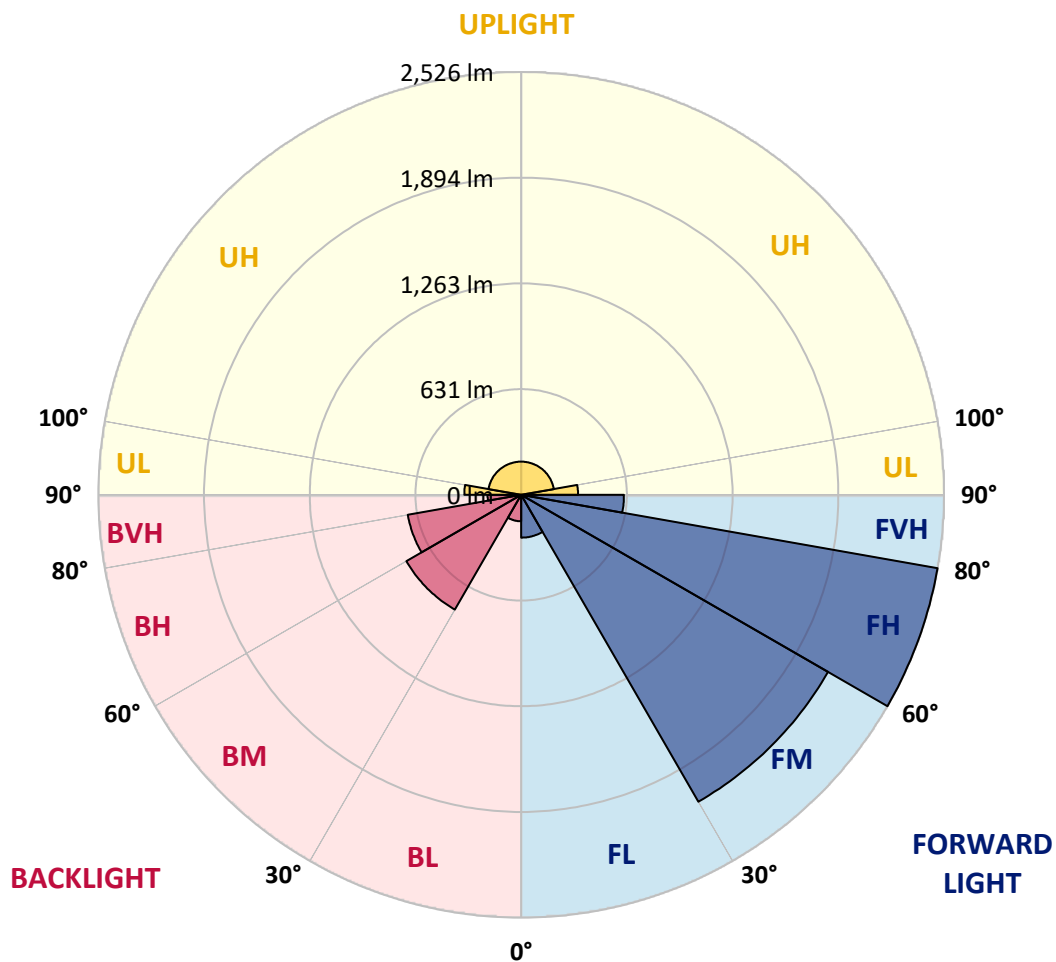
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.9	3.2			
FM	(30°-60°)	2116.7	26.7			
FH	(60°-80°)	2525.6	31.8			G2/5000
FVH	(80°-90°)	613.6	7.7			G4/750
BL	(0°-30°)	158.1	2.0	B1/500		
BM	(30°-60°)	791.8	10.0	B1/1000		
BH	(60°-80°)	687.5	8.7	B2/1000		G2/1000
BVH	(80°-90°)	200.8	2.5			G2/225
UL	(90°-100°)	339.8	4.3		U3/500	
UH	(100°-180°)	198.1	2.5		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
2.5°	272.7	272.7	271.8	271.8	268.9	266.0	264.1	259.3	256.3	256.3	252.5
5°	301.8	301.8	300.8	299.0	295.0	290.2	284.4	277.6	271.8	270.9	264.1
7.5°	337.6	337.6	335.7	331.8	325.9	319.1	311.5	301.8	293.1	291.1	281.5
10°	382.1	382.1	379.1	373.3	365.6	356.9	346.3	332.7	321.1	320.1	306.6
12.5°	438.1	435.3	433.3	423.7	413.0	401.4	388.9	372.3	360.8	360.8	342.4
15°	502.0	502.0	494.3	481.8	468.1	452.7	439.1	422.8	409.1	408.2	386.9
17.5°	572.6	571.7	562.9	547.5	529.1	513.6	496.1	477.8	462.3	462.3	437.1
20°	653.9	651.9	640.4	620.0	597.7	580.3	561.0	539.7	523.3	523.3	495.3
22.5°	746.7	742.9	728.3	700.3	678.1	653.0	630.7	609.3	591.9	594.0	561.9
25°	851.1	846.3	827.9	792.1	760.2	730.3	708.0	685.8	673.2	668.3	642.2
27.5°	969.2	959.6	939.2	893.7	848.3	811.6	788.3	771.9	760.2	756.4	726.3
30°	1098.8	1089.1	1061.1	1004.0	944.0	897.6	875.3	862.8	857.0	852.1	822.1
32.5°	1246.7	1236.2	1197.5	1125.9	1048.5	990.4	969.2	963.3	963.3	959.6	929.6
35°	1407.4	1393.8	1347.3	1257.5	1159.8	1090.1	1069.7	1072.7	1073.7	1070.7	1045.6
37.5°	1578.6	1564.0	1508.9	1401.6	1279.7	1196.5	1176.1	1189.8	1209.1	1198.5	1172.4
40°	1754.6	1741.0	1682.0	1551.5	1405.4	1307.8	1287.4	1314.5	1345.4	1336.8	1307.8
42.5°	1929.6	1923.8	1849.4	1710.1	1539.9	1424.7	1410.2	1451.8	1494.4	1488.5	1456.7
45°	2120.1	2102.8	2030.2	1874.6	1684.0	1560.2	1543.8	1599.9	1657.9	1652.1	1620.1
47.5°	2291.3	2275.0	2206.3	2040.9	1829.1	1694.6	1684.0	1759.4	1833.0	1826.2	1794.2
50°	2435.5	2433.6	2375.7	2204.5	1981.9	1834.9	1833.9	1928.8	2018.7	2016.7	1976.1
52.5°	2573.8	2571.0	2517.8	2363.0	2134.7	1976.1	1983.8	2107.6	2215.0	2215.0	2160.8
55°	2680.2	2679.2	2648.3	2513.8	2285.6	2132.7	2155.0	2291.3	2414.3	2414.3	2360.1
57.5°	2754.8	2753.8	2749.9	2647.4	2430.7	2281.8	2316.6	2472.3	2605.8	2608.7	2537.1
60°	2772.1	2780.8	2819.6	2754.8	2560.3	2417.2	2464.6	2638.6	2776.1	2780.8	2683.2
62.5°	2741.2	2754.8	2833.1	2819.6	2659.0	2539.0	2598.0	2777.0	2909.5	2917.2	2782.9
65°	2638.6	2666.7	2786.6	2831.1	2720.9	2628.0	2706.4	2877.6	2987.8	2998.5	2814.7
66°	2583.6	2613.5	2750.8	2820.5	2734.4	2653.2	2735.5	2905.6	3004.3	3011.0	2804.0
67.5°	2479.1	2509.0	2671.5	2778.9	2734.4	2677.4	2759.6	2925.0	3001.4	3004.3	2766.3
70°	2254.7	2301.1	2482.9	2649.3	2678.3	2664.9	2758.6	2895.9	2930.8	2921.1	2622.2
72.5°	2007.9	2034.1	2233.4	2459.8	2557.4	2583.6	2690.9	2786.6	2763.3	2749.0	2405.6
75°	1684.0	1721.7	1939.4	2197.6	2346.6	2426.8	2541.9	2575.8	2517.8	2486.8	2120.1
77.5°	1406.3	1421.9	1625.0	1889.9	2086.5	2195.7	2304.0	2314.6	2194.7	2168.6	1788.5
80°	1118.2	1133.7	1320.3	1574.7	1787.5	1931.6	2026.4	1998.4	1847.5	1822.3	1479.0
82.5°	873.4	894.8	1037.9	1280.6	1486.7	1638.6	1711.1	1665.6	1522.4	1486.7	1178.2
85°	670.3	680.9	814.4	1023.3	1205.2	1343.6	1403.4	1353.1	1199.3	1171.4	925.7
87.5°	510.7	521.3	634.5	798.9	959.6	1077.6	1124.0	1060.2	935.4	916.9	718.7
90°	389.8	397.6	487.6	628.7	752.5	850.2	882.2	831.8	720.6	704.1	553.3
92.5°	299.0	305.6	375.3	487.6	589.0	672.3	685.8	638.4	552.3	537.8	425.6
95°	229.2	237.0	293.1	381.1	460.4	523.3	532.9	492.3	423.7	412.0	327.9
97.5°	180.0	182.8	230.2	301.8	366.6	410.2	414.0	383.1	324.1	316.3	252.5
100°	144.1	146.1	182.8	239.0	292.2	324.1	325.9	294.0	248.6	242.8	193.5
102.5°	117.0	119.0	147.1	192.6	232.1	258.3	257.3	232.1	192.6	184.7	150.9
105°	96.7	97.7	119.9	156.7	188.6	206.1	205.1	180.9	147.9	143.1	118.0
107.5°	81.3	82.2	98.7	127.8	154.7	169.3	166.4	142.1	115.0	112.2	93.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	68.8	69.6	82.2	106.4	130.6	140.3	136.3	113.2	90.9	87.1	75.5
112.5°	60.0	60.0	69.6	88.9	109.3	118.0	112.2	91.9	71.6	69.6	62.0
115°	52.2	53.2	60.0	75.5	92.9	98.7	92.9	73.5	58.0	56.0	51.3
117.5°	46.4	46.4	52.2	63.8	78.3	82.2	76.4	60.0	47.4	46.4	43.4
120°	41.6	41.6	45.5	54.2	65.8	69.6	63.8	49.2	38.7	37.7	36.7
122.5°	37.7	37.7	39.7	46.4	56.0	58.0	52.2	40.7	32.9	31.9	31.9
125°	33.9	33.9	34.9	39.7	47.4	49.2	43.4	32.9	28.1	27.1	27.1
127.5°	30.9	30.9	30.9	34.9	38.7	40.7	35.8	27.1	23.2	23.2	24.1
130°	28.1	28.1	28.1	29.1	31.9	32.9	29.1	22.3	20.3	20.3	20.3
132.5°	25.1	25.1	24.1	25.1	26.1	26.1	22.3	18.3	17.4	17.4	18.3
135°	22.3	22.3	21.3	21.3	21.3	20.3	17.4	14.5	14.5	14.5	15.6
137.5°	19.3	19.3	18.3	17.4	16.4	14.5	12.6	11.6	11.6	11.6	12.6
140°	16.4	16.4	15.6	13.5	11.6	10.6	8.7	8.7	9.8	9.8	9.8
142.5°	12.6	12.6	11.6	10.6	8.7	6.8	5.8	5.8	6.8	6.8	7.7
145°	9.8	9.8	8.7	6.8	4.8	3.9	2.9	3.9	4.8	4.8	5.8
147.5°	6.8	6.8	5.8	4.8	2.9	1.0	1.9	2.9	3.9	3.9	4.8
150°	3.9	3.9	2.9	1.9	0.0	0.0	1.0	1.9	2.9	2.9	2.9
152.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
2.5°	250.5	248.6	244.7	241.8	237.9	236.0	234.1	232.1	231.2	229.2	229.2
5°	259.3	256.3	249.5	243.7	237.0	232.1	227.3	224.4	222.5	221.5	221.5
7.5°	275.7	270.9	260.1	251.6	241.8	236.0	230.2	224.4	221.5	220.4	220.4
10°	299.0	293.1	278.6	266.0	253.4	244.7	239.0	232.1	229.2	227.3	227.3
12.5°	332.7	323.1	305.6	287.3	270.9	260.1	252.5	247.6	247.6	249.5	248.6
15°	375.3	364.7	339.5	316.3	294.0	279.4	274.7	273.7	273.7	274.7	274.7
17.5°	421.7	407.2	378.1	348.2	322.1	307.6	301.8	299.8	299.8	300.8	302.7
20°	477.8	459.4	422.8	384.0	355.9	338.4	329.9	326.9	328.9	332.7	332.7
22.5°	542.6	522.4	473.0	423.7	390.8	368.5	358.0	355.0	358.8	363.8	364.7
25°	617.1	590.0	528.2	467.2	424.6	396.6	385.9	382.1	387.9	393.7	396.6
27.5°	699.4	664.6	588.2	510.7	454.6	420.7	409.1	408.2	415.9	423.7	426.5
30°	790.3	747.7	651.9	556.1	485.5	442.1	429.5	432.3	441.1	450.7	452.7
32.5°	890.8	840.5	718.7	600.7	509.7	458.5	443.9	450.7	461.4	473.9	476.0
35°	1000.2	939.2	789.3	642.2	531.0	471.0	456.6	465.2	476.8	490.3	492.3
37.5°	1119.2	1044.6	859.9	679.0	547.5	478.8	463.3	473.9	487.6	500.1	502.0
40°	1243.0	1153.9	930.5	712.0	559.1	483.6	466.2	477.8	491.3	501.1	502.9
42.5°	1383.2	1271.9	999.1	738.0	565.9	484.6	466.2	476.8	490.3	497.1	498.1
45°	1532.2	1396.7	1066.9	759.3	568.7	483.6	463.3	474.9	485.5	488.5	489.5
47.5°	1686.9	1524.3	1127.8	771.9	568.7	479.7	459.4	468.1	476.8	476.0	476.8
50°	1859.0	1657.9	1184.9	779.6	564.9	474.9	455.6	462.3	468.1	463.3	464.3
52.5°	2021.6	1790.4	1231.4	782.6	558.1	469.2	451.7	457.5	460.4	453.7	453.7
55°	2183.1	1915.2	1269.0	776.8	549.3	464.3	448.8	454.6	454.6	445.9	445.9
57.5°	2333.0	2021.6	1290.4	765.2	538.7	460.4	446.9	452.7	452.7	441.1	441.1
60°	2449.0	2098.0	1291.3	746.7	526.2	455.6	445.9	452.7	451.7	440.1	439.1
62.5°	2519.7	2131.8	1269.0	720.6	513.6	450.7	444.9	451.7	451.7	439.1	438.1
65°	2519.7	2109.6	1220.7	689.7	499.1	444.9	443.0	451.7	449.8	438.1	436.3
66°	2500.4	2085.4	1194.5	676.1	494.3	443.0	442.1	451.7	449.8	438.1	435.3
67.5°	2447.2	2027.5	1152.0	653.9	482.7	438.1	440.1	448.8	447.9	435.3	433.3
70°	2292.4	1877.4	1060.2	614.2	465.2	429.5	434.3	442.1	441.1	429.5	425.6
72.5°	2065.1	1680.1	955.7	571.7	445.9	417.8	423.7	431.3	429.5	419.8	415.9
75°	1797.2	1456.7	842.5	526.2	422.8	402.4	409.1	415.9	414.0	405.3	399.5
77.5°	1508.0	1226.4	730.3	478.8	398.5	383.1	389.8	396.6	392.7	384.9	381.1
80°	1224.6	1004.0	623.9	431.3	370.5	360.8	367.5	369.6	366.6	359.8	355.0
82.5°	976.9	807.7	523.3	384.9	340.5	334.7	339.5	339.5	336.6	329.9	325.0
85°	767.0	644.2	440.1	338.4	310.6	306.6	309.5	306.6	302.7	296.0	292.2
87.5°	604.5	516.5	368.5	297.9	277.6	276.7	277.6	270.9	266.9	261.1	257.3
90°	472.0	405.3	307.6	259.3	247.6	246.6	244.7	237.9	229.2	223.4	220.4
92.5°	368.5	325.9	254.3	221.5	215.7	214.7	211.9	203.1	197.3	189.6	186.8
95°	292.2	260.1	210.9	191.5	188.6	187.6	183.8	174.2	166.4	158.7	156.7
97.5°	229.2	206.1	176.0	164.4	163.5	162.5	157.7	147.1	138.3	130.6	129.6
100°	180.0	165.4	147.1	141.3	141.3	140.3	135.4	124.8	114.1	106.4	105.4
102.5°	143.1	133.6	122.8	121.0	121.0	119.9	115.0	106.4	93.9	85.1	85.1
105°	114.1	108.3	102.4	103.5	104.5	103.5	98.7	88.1	75.5	68.8	68.8
107.5°	91.9	88.1	86.1	88.1	88.9	88.9	84.1	72.5	60.9	55.1	55.1



REPORT NUMBER: P254903

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T4W-FL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	74.6	72.5	72.5	74.6	76.4	76.4	70.6	60.9	49.2	44.5	44.5
112.5°	60.9	60.0	60.9	64.8	65.8	64.8	60.0	50.3	39.7	36.7	36.7
115°	51.3	51.3	52.2	55.1	57.1	55.1	50.3	40.7	31.9	29.9	29.9
117.5°	43.4	43.4	44.5	47.4	48.4	46.4	41.6	32.9	26.1	25.1	25.1
120°	36.7	36.7	37.7	39.7	40.7	38.7	33.9	27.1	21.3	20.3	21.3
122.5°	31.9	31.9	32.9	33.9	34.9	32.9	28.1	21.3	17.4	17.4	17.4
125°	28.1	28.1	28.1	29.1	29.1	27.1	23.2	17.4	13.5	14.5	14.5
127.5°	24.1	24.1	24.1	24.1	24.1	22.3	18.3	13.5	11.6	12.6	12.6
130°	21.3	21.3	20.3	20.3	19.3	18.3	14.5	10.6	9.8	10.6	10.6
132.5°	18.3	18.3	17.4	16.4	15.6	14.5	11.6	7.7	7.7	8.7	8.7
135°	15.6	15.6	14.5	13.5	12.6	10.6	7.7	5.8	5.8	6.8	6.8
137.5°	12.6	12.6	11.6	10.6	8.7	7.7	5.8	3.9	4.8	5.8	5.8
140°	9.8	9.8	8.7	7.7	5.8	3.9	2.9	2.9	2.9	3.9	3.9
142.5°	7.7	7.7	6.8	4.8	2.9	1.9	1.0	1.0	1.9	2.9	2.9
145°	5.8	5.8	4.8	3.9	1.9	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	4.8	3.9	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.9	2.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	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)