

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: P255018

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255018
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-AF24-80-D-U-T2U-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7762.1 lumens
Efficiency: N/A
Efficacy: 93.5 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

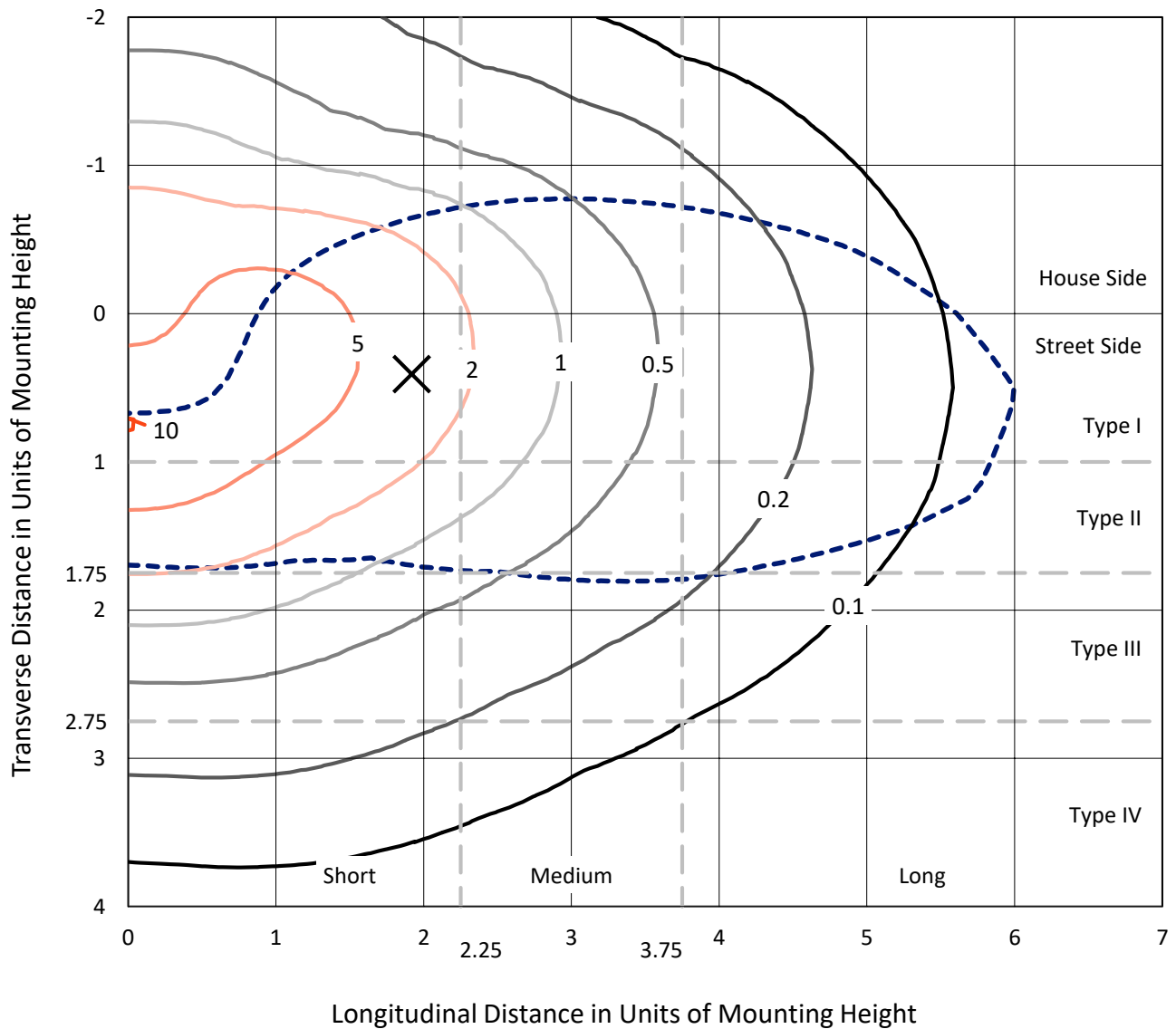
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

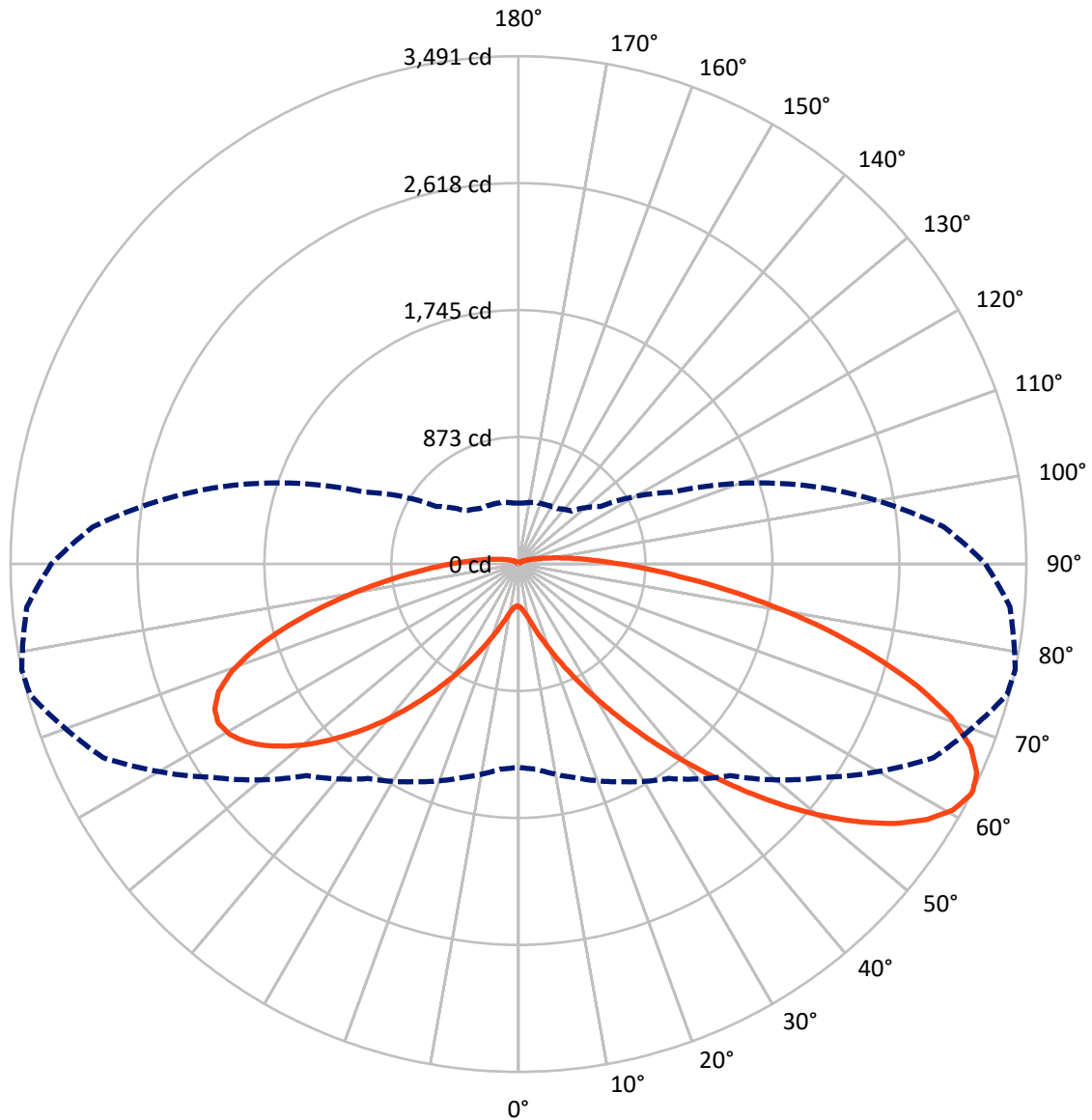
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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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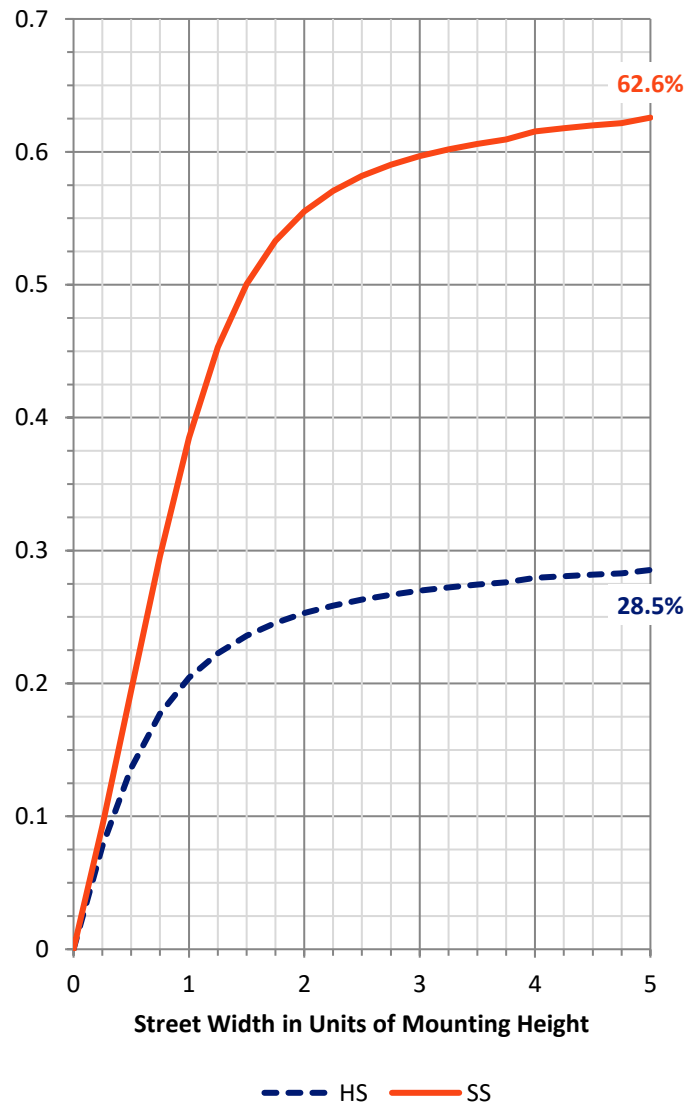
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.8	210.8	2516.5
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	4984.6	261.0	5245.6
	% Fixture	64.2	3.4	67.6
Total	Lumens	7290.4	471.8	7762.1
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	0.4
10°-20°	132.2	1.7
20°-30°	345.8	4.5
30°-40°	717.9	9.2
40°-50°	1209.3	15.6
50°-60°	1589.5	20.5
60°-70°	1573.9	20.3
70°-80°	1120.5	14.4
80°-90°	570.3	7.3
90°-100°	248.1	3.2
100°-110°	113.5	1.5
110°-120°	57.7	0.7
120°-130°	30.7	0.4
130°-140°	15.3	0.2
140°-150°	5.5	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7290.4	93.9
0°-180°	7762.1	100.0



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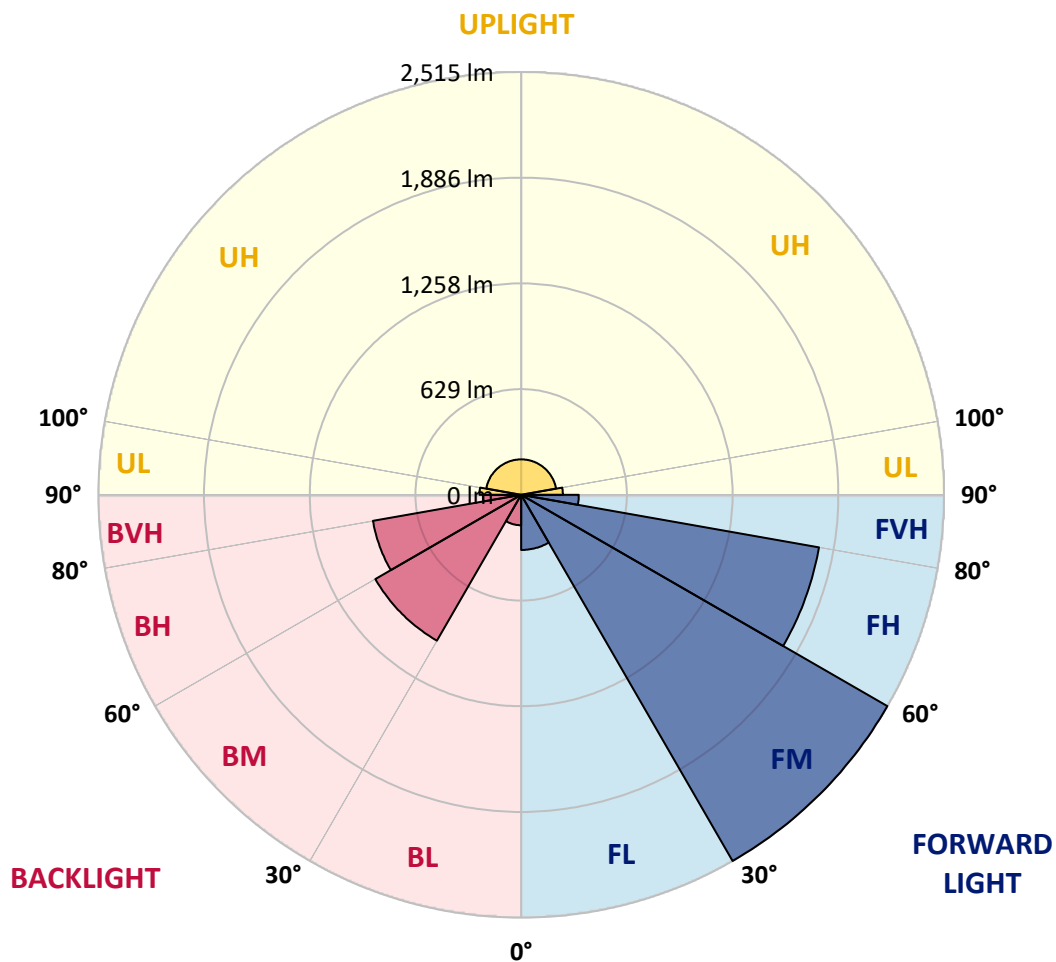
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.1	4.2			
FM	(30°-60°)	2515.1	32.4			
FH	(60°-80°)	1798.9	23.2			G1/1800
FVH	(80°-90°)	342.5	4.4			G3/500
BL	(0°-30°)	180.9	2.3	B1/500		
BM	(30°-60°)	1001.6	12.9	B2/2500		
BH	(60°-80°)	895.4	11.5	B2/1000		G2/1000
BVH	(80°-90°)	227.8	2.9			G3/500
UL	(90°-100°)	248.1	3.2		U3/500	
UH	(100°-180°)	210.8	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°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	322.3	323.3	323.3	321.4	319.6	315.8	312.0	307.4	300.7	299.8	295.2
5°	360.8	361.7	360.8	357.0	353.2	346.7	339.2	330.8	319.6	318.6	310.2
7.5°	407.6	408.6	407.6	401.1	394.6	385.1	374.8	362.6	346.7	343.9	332.7
10°	465.7	467.6	464.8	459.2	448.0	433.8	420.7	402.9	386.1	379.5	365.5
12.5°	539.7	539.7	534.1	525.7	511.7	493.8	477.0	455.4	436.7	427.3	412.4
15°	622.2	623.2	615.6	605.4	590.3	563.1	544.4	521.9	498.5	490.1	468.5
17.5°	716.9	718.7	709.3	694.4	673.7	646.6	623.2	596.9	569.7	555.7	533.2
20°	827.5	827.5	817.1	797.4	771.2	741.2	711.3	681.3	651.2	634.4	611.0
22.5°	953.0	953.0	940.8	914.5	877.1	844.2	811.5	777.7	744.9	727.1	697.1
25°	1098.2	1103.9	1080.4	1047.6	1005.5	959.5	926.8	887.4	851.8	832.1	799.3
27.5°	1262.2	1265.0	1235.9	1187.2	1132.9	1085.1	1048.5	1012.9	973.6	953.0	913.6
30°	1438.4	1432.7	1406.6	1348.5	1277.3	1219.2	1182.5	1149.8	1104.8	1088.8	1045.8
32.5°	1627.6	1623.9	1590.2	1510.5	1433.7	1363.4	1324.1	1303.4	1258.4	1240.6	1194.7
35°	1827.3	1820.8	1780.4	1697.0	1595.8	1519.0	1483.4	1473.0	1431.8	1414.0	1358.7
37.5°	2036.2	2021.2	1970.6	1864.7	1759.8	1678.3	1662.3	1647.4	1620.1	1601.4	1535.9
40°	2203.0	2196.5	2145.8	2035.3	1921.9	1853.5	1843.2	1853.5	1827.3	1805.7	1729.8
42.5°	2338.0	2333.2	2292.9	2184.3	2070.9	2008.2	2019.4	2053.1	2044.7	2023.1	1938.8
45°	2431.7	2427.0	2397.9	2304.2	2200.2	2154.3	2204.9	2266.8	2272.4	2254.6	2155.3
47.5°	2464.5	2461.6	2445.7	2377.3	2297.6	2286.4	2386.6	2484.1	2507.6	2492.5	2380.1
50°	2422.2	2424.2	2429.8	2398.8	2350.1	2382.0	2530.1	2691.2	2741.8	2724.9	2605.0
52.5°	2313.6	2320.2	2347.4	2357.6	2350.1	2431.7	2650.0	2878.7	2964.8	2946.1	2822.4
55°	2146.8	2156.2	2203.9	2257.3	2295.8	2427.9	2724.9	3037.0	3160.7	3147.6	3019.2
57.5°	1927.5	1946.3	2010.9	2105.5	2183.4	2369.8	2746.5	3145.7	3320.9	3311.6	3186.9
60°	1684.8	1700.8	1789.8	1913.4	2026.0	2256.4	2699.7	3192.5	3429.6	3432.4	3314.4
62.5°	1444.0	1461.8	1566.8	1695.1	1838.5	2093.4	2588.2	3164.4	3474.7	3488.7	3386.5
63°	1397.1	1414.9	1519.9	1651.1	1799.2	2056.8	2558.2	3148.5	3474.7	3490.5	3391.2
65°	1215.4	1232.2	1336.3	1473.0	1629.6	1897.6	2412.9	3054.8	3437.1	3461.5	3383.7
67.5°	1003.6	1021.4	1126.4	1261.3	1412.2	1672.6	2184.3	2861.8	3308.7	3352.8	3303.1
70°	824.6	843.3	939.0	1066.3	1207.0	1444.0	1922.8	2602.2	3102.6	3150.4	3131.7
72.5°	679.3	695.3	789.0	895.8	1021.4	1232.2	1654.8	2289.3	2807.4	2865.5	2876.7
75°	554.7	571.6	654.1	749.6	860.2	1037.3	1395.3	1958.4	2442.0	2522.6	2554.4
77.5°	452.6	468.5	541.7	625.0	718.7	864.0	1156.3	1630.5	2067.2	2164.6	2205.8
80°	369.2	384.2	444.2	520.1	599.8	716.9	947.4	1313.8	1696.1	1784.1	1827.3
82.5°	299.8	313.0	365.5	432.0	499.4	594.1	773.0	1051.4	1355.0	1429.1	1452.5
85°	241.7	253.0	299.8	357.9	415.1	488.3	625.0	831.1	1059.8	1117.9	1146.9
87.5°	193.0	202.4	244.6	295.2	343.9	410.4	506.1	662.5	819.9	863.1	881.8
90°	156.5	164.0	198.7	241.7	285.8	334.5	410.4	515.4	630.6	661.5	674.6
92.5°	127.5	133.1	164.0	199.6	239.0	282.9	334.5	407.6	485.4	506.1	514.4
95°	106.8	108.7	135.8	166.8	198.7	236.1	273.6	324.2	374.8	388.9	392.6
97.5°	87.2	89.9	113.3	141.5	168.7	196.8	223.9	259.5	291.4	299.8	300.7
100°	75.0	75.9	95.5	120.9	144.3	166.8	186.5	208.1	226.8	229.6	231.5
102.5°	63.7	64.7	81.5	105.0	124.6	143.4	158.4	170.5	178.0	179.0	179.0
105°	55.2	56.3	70.3	90.9	108.7	122.8	134.9	139.6	141.5	140.6	140.6
107.5°	49.6	49.6	61.9	79.7	95.5	107.7	115.3	116.2	113.3	111.5	111.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	44.1	45.0	54.3	71.2	85.3	94.6	100.2	97.5	91.9	89.9	89.9
112.5°	40.3	41.2	47.8	62.8	75.0	84.3	87.2	82.4	75.0	73.1	74.1
115°	37.4	37.4	43.1	55.2	67.5	75.0	75.9	70.3	61.9	60.9	61.9
117.5°	34.7	34.7	38.5	49.6	59.9	66.5	66.5	59.9	52.5	50.6	51.6
120°	32.8	32.8	35.6	44.1	53.4	59.0	58.1	51.6	44.1	44.1	45.0
122.5°	30.9	30.9	32.8	39.4	47.8	52.5	51.6	44.1	37.4	37.4	38.5
125°	29.1	29.1	30.0	35.6	42.1	45.9	45.0	37.4	32.8	32.8	33.8
127.5°	27.2	27.2	28.1	31.8	37.4	40.3	38.5	31.8	29.1	29.1	30.0
130°	26.2	26.2	26.2	28.1	32.8	35.6	32.8	27.2	25.3	25.3	26.2
132.5°	24.3	24.3	24.3	25.3	28.1	30.0	28.1	23.4	22.5	22.5	23.4
135°	23.4	23.4	22.5	22.5	24.3	25.3	22.5	19.6	19.6	19.6	20.7
137.5°	21.6	21.6	20.7	19.6	20.7	20.7	18.7	16.0	16.9	16.9	17.8
140°	19.6	19.6	18.7	16.9	16.0	16.0	14.0	13.1	14.0	14.0	15.0
142.5°	16.9	16.9	16.0	14.0	12.2	11.3	10.3	10.3	11.3	11.3	12.2
145°	14.0	14.0	13.1	11.3	9.4	8.4	7.5	7.5	8.4	8.4	9.4
147.5°	11.3	11.3	10.3	8.4	6.5	4.7	4.7	5.6	6.5	6.5	6.5
150°	9.4	9.4	8.4	6.5	3.8	2.8	1.8	2.8	3.8	3.8	3.8
152.5°	6.5	6.5	5.6	3.8	2.8	0.9	0.9	1.8	2.8	2.8	2.8
155°	3.8	3.8	2.8	1.8	0.9	0.9	0.9	0.9	1.8	1.8	1.8
157.5°	1.8	1.8	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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°	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
2.5°	293.3	291.4	286.7	282.0	278.3	275.5	273.6	270.8	269.9	268.9	268.9
5°	305.5	300.7	292.4	284.0	276.4	269.9	264.2	259.5	256.8	254.9	255.8
7.5°	325.2	317.6	305.5	292.4	280.2	270.8	262.4	256.8	252.1	249.3	249.3
10°	356.1	345.8	327.0	308.3	293.3	279.3	268.9	260.5	254.9	252.1	252.1
12.5°	400.1	387.0	360.8	334.5	313.9	295.2	282.0	273.6	271.7	268.9	268.9
15°	452.6	436.7	404.8	371.0	343.0	317.6	306.4	298.9	294.2	290.5	290.5
17.5°	514.4	493.8	453.6	412.4	377.7	351.4	332.7	322.3	316.7	313.9	313.9
20°	585.6	560.4	510.7	459.2	416.0	387.9	362.6	346.7	341.1	338.3	337.4
22.5°	668.1	637.2	577.3	512.6	462.0	424.5	394.6	371.0	364.5	361.7	359.9
25°	766.5	731.8	652.2	573.5	510.7	459.2	422.6	396.4	387.0	384.2	383.3
27.5°	877.1	834.9	737.4	641.0	556.6	490.1	446.9	419.8	407.6	403.9	404.8
30°	1000.8	951.1	831.1	709.3	601.6	518.2	466.7	437.6	424.5	420.7	420.7
32.5°	1138.5	1073.0	933.3	781.5	643.7	541.7	483.5	453.6	437.6	434.8	434.8
35°	1290.4	1221.9	1043.9	854.6	681.3	560.4	495.7	465.7	448.9	445.1	445.1
37.5°	1464.7	1374.6	1161.0	924.8	713.1	574.4	504.1	473.2	456.3	450.7	450.7
40°	1641.7	1537.7	1282.8	991.4	740.3	582.9	508.8	477.0	461.0	453.6	452.6
42.5°	1835.7	1705.5	1407.5	1052.3	759.0	587.6	509.7	479.8	462.9	453.6	451.6
45°	2037.2	1896.7	1522.8	1104.8	773.0	587.6	508.8	478.8	462.9	450.7	448.9
47.5°	2240.5	2081.2	1642.7	1148.9	779.6	584.7	507.0	477.9	462.0	446.9	445.1
50°	2452.3	2265.8	1756.0	1183.6	778.7	579.1	502.3	475.1	458.2	442.3	440.4
52.5°	2651.0	2435.4	1860.0	1207.9	773.0	570.7	496.6	472.3	455.4	437.6	435.8
55°	2844.0	2606.0	1950.1	1221.0	760.9	560.4	491.0	468.5	452.6	432.9	432.0
57.5°	2999.5	2749.3	2020.3	1220.1	743.1	547.3	484.5	463.8	448.9	430.2	428.2
60°	3127.0	2864.6	2065.2	1206.0	721.5	534.1	477.0	458.2	445.1	426.4	423.5
62.5°	3201.9	2929.2	2076.5	1176.0	695.3	519.1	466.7	449.8	438.5	421.7	418.9
63°	3210.3	2934.8	2073.7	1168.5	689.7	515.4	464.8	448.9	437.6	420.7	418.0
65°	3207.6	2933.0	2046.5	1130.1	665.3	500.4	455.4	440.4	431.1	415.1	412.4
67.5°	3134.4	2861.8	1969.7	1066.3	629.7	480.7	440.4	428.2	418.9	404.8	402.0
70°	2976.1	2710.0	1840.4	986.7	590.3	458.2	421.7	412.4	402.9	389.8	386.1
72.5°	2741.8	2486.0	1667.0	901.4	549.1	432.0	401.1	391.7	384.2	373.0	366.4
75°	2436.4	2202.1	1466.5	805.9	504.1	404.8	375.7	368.3	358.9	348.6	343.0
77.5°	2081.2	1877.8	1254.8	707.5	458.2	373.9	348.6	340.1	331.7	320.5	313.0
80°	1722.3	1551.8	1044.8	611.9	412.4	341.1	318.6	311.1	300.7	288.6	281.1
82.5°	1381.2	1248.2	854.6	523.9	367.3	308.3	287.7	278.3	267.1	254.9	250.2
85°	1078.6	981.1	688.8	444.2	323.3	275.5	256.8	247.3	233.3	219.3	213.7
87.5°	832.1	760.9	552.9	373.9	282.9	243.7	224.8	213.7	200.5	186.5	181.8
90°	638.1	589.4	442.3	314.9	246.4	211.8	196.8	186.5	171.4	157.4	153.6
92.5°	489.2	456.3	355.2	265.1	210.8	185.6	172.5	161.2	146.2	132.2	129.3
95°	375.7	354.2	286.7	222.1	182.7	162.1	150.9	138.7	123.7	110.6	107.7
97.5°	291.4	276.4	231.5	187.4	158.4	141.5	132.2	120.0	105.0	92.8	90.9
100°	225.9	216.5	188.3	157.4	137.8	123.7	114.4	104.0	89.9	76.8	76.8
102.5°	176.2	170.5	154.6	134.9	120.0	109.7	101.2	89.9	75.9	65.6	64.7
105°	139.6	136.8	127.5	115.3	105.0	96.6	89.0	77.7	64.7	55.2	55.2
107.5°	111.5	110.6	105.9	98.4	91.9	85.3	78.7	67.5	55.2	47.8	47.8



REPORT NUMBER: P255018

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	90.9	90.9	89.0	84.3	80.6	75.0	68.4	59.0	46.9	41.2	41.2
112.5°	75.0	75.9	75.0	73.1	71.2	66.5	60.9	50.6	40.3	36.5	36.5
115°	62.8	63.7	63.7	63.7	62.8	59.0	53.4	44.1	34.7	31.8	31.8
117.5°	53.4	54.3	55.2	55.2	54.3	51.6	46.9	38.5	30.0	28.1	29.1
120°	45.9	46.9	47.8	48.7	47.8	45.9	40.3	32.8	26.2	25.3	25.3
122.5°	40.3	41.2	41.2	42.1	42.1	40.3	35.6	28.1	22.5	22.5	22.5
125°	34.7	35.6	36.5	36.5	37.4	34.7	30.0	23.4	19.6	19.6	20.7
127.5°	30.9	30.9	30.9	31.8	31.8	30.0	26.2	19.6	16.9	17.8	17.8
130°	27.2	27.2	28.1	28.1	28.1	26.2	21.6	16.9	15.0	16.0	16.0
132.5°	23.4	24.3	24.3	23.4	23.4	22.5	17.8	14.0	13.1	14.0	14.0
135°	20.7	21.6	21.6	19.6	19.6	17.8	15.0	11.3	12.2	12.2	13.1
137.5°	17.8	18.7	17.8	16.9	16.0	15.0	12.2	9.4	10.3	11.3	11.3
140°	15.0	15.0	15.0	14.0	13.1	11.3	9.4	7.5	9.4	9.4	9.4
142.5°	12.2	12.2	12.2	11.3	9.4	8.4	6.5	6.5	7.5	7.5	7.5
145°	9.4	9.4	9.4	8.4	6.5	5.6	4.7	4.7	5.6	6.5	6.5
147.5°	6.5	6.5	6.5	5.6	3.8	2.8	2.8	3.8	4.7	4.7	4.7
150°	4.7	4.7	4.7	3.8	2.8	1.8	1.8	2.8	2.8	3.8	3.8
152.5°	2.8	3.8	3.8	2.8	1.8	0.9	0.9	1.8	1.8	1.8	1.8
155°	1.8	1.8	2.8	1.8	1.8	0.9	0.0	0.0	0.9	0.9	0.9
157.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)