

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: P254910

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T4W-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254910
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-AF24-80-D-U-T4W-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7684.4 lumens
Efficiency: N/A
Efficacy: 92.6 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

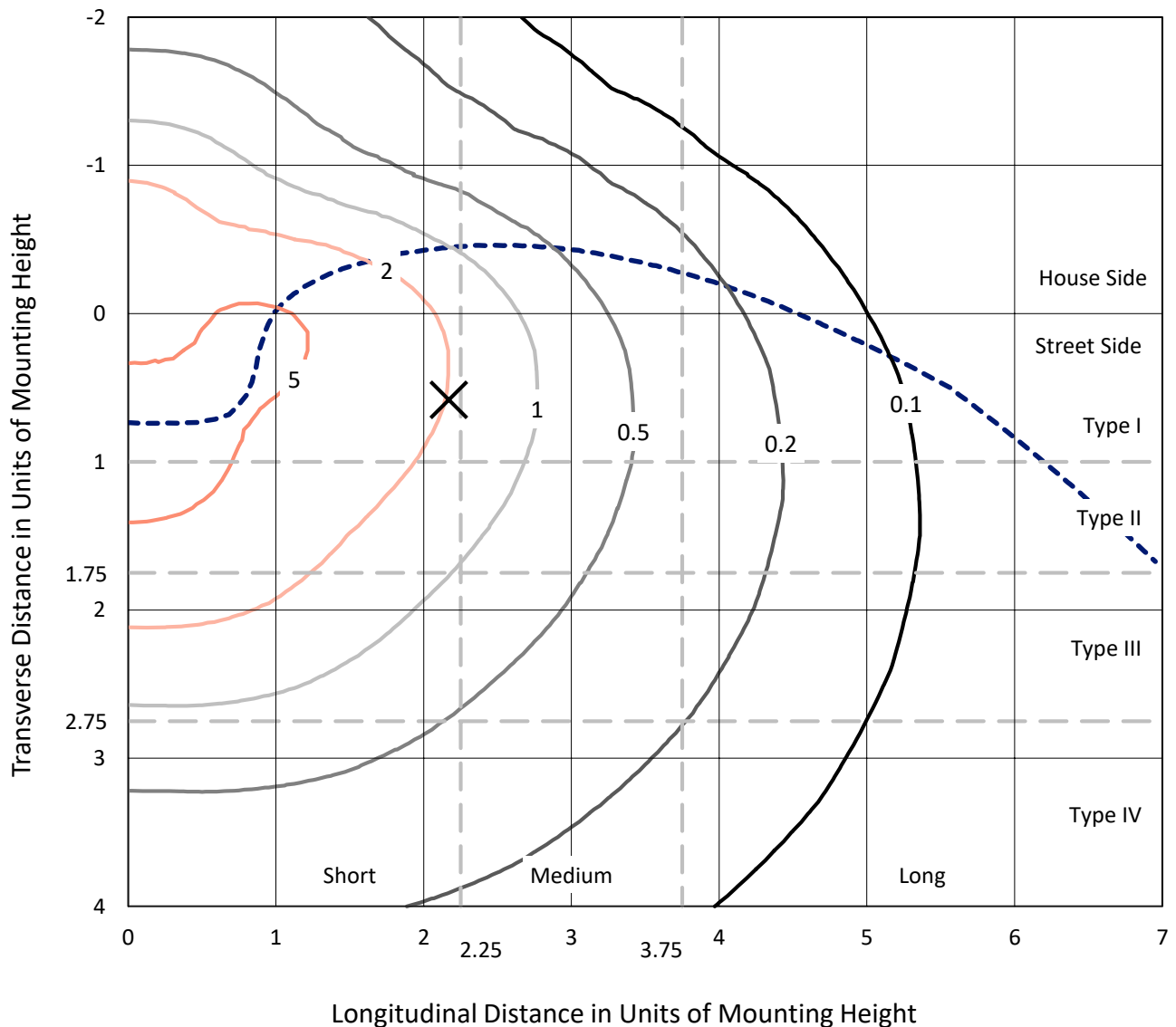
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

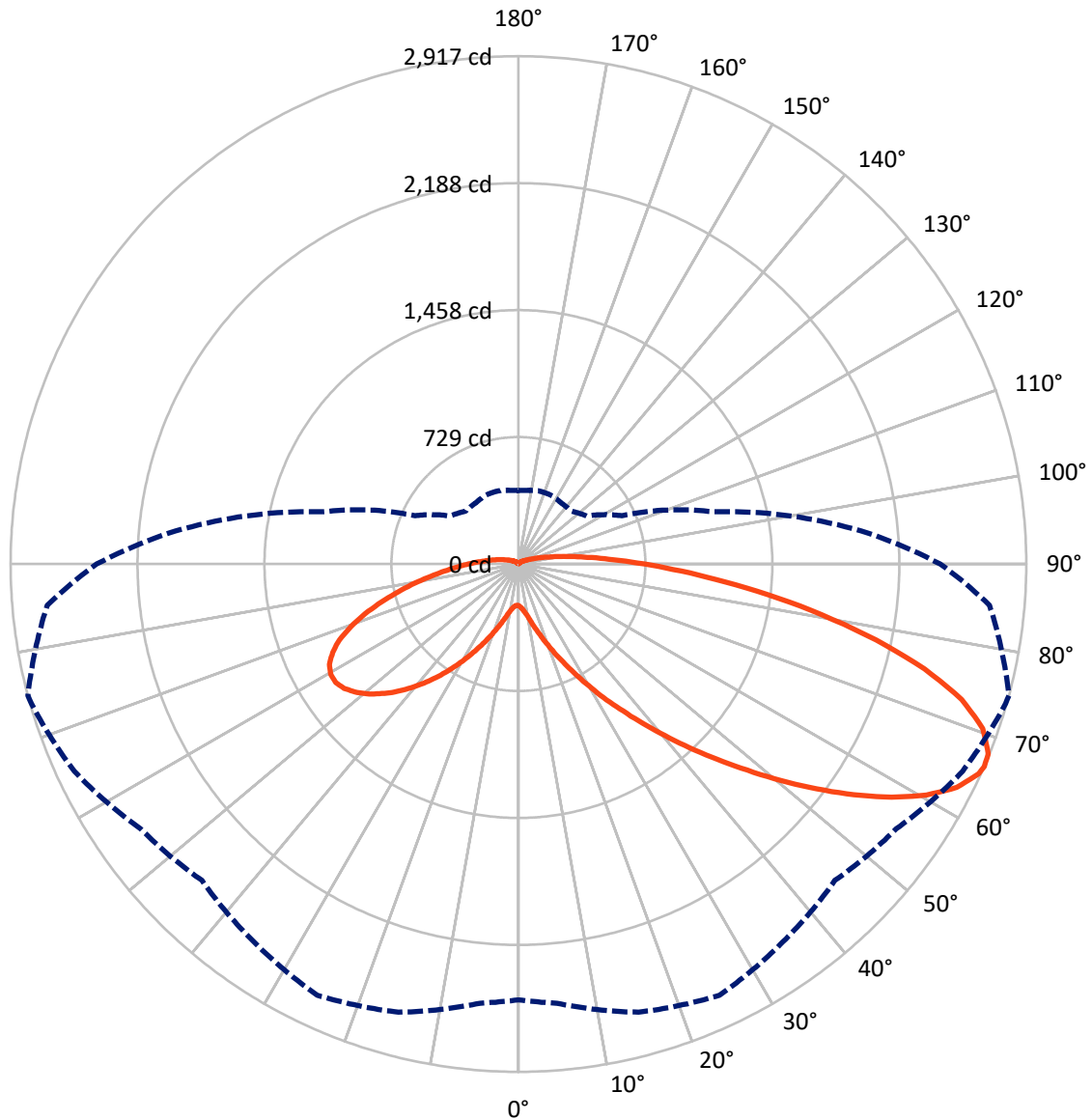
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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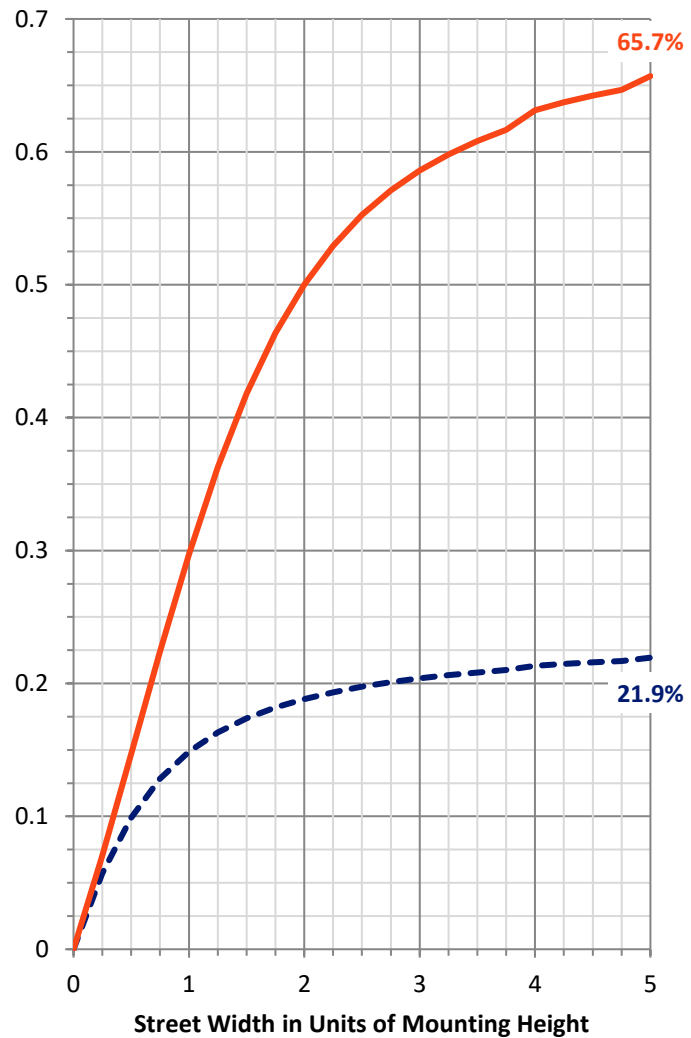
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.7	191.9	1972.6
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	5339.6	372.2	5711.8
	% Fixture	69.5	4.8	74.3
Total	Lumens	7120.3	564.1	7684.4
	% Fixture	92.7	7.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.3
10°-20°	106.4	1.4
20°-30°	269.3	3.5
30°-40°	538.7	7.0
40°-50°	915.9	11.9
50°-60°	1362.9	17.7
60°-70°	1673.5	21.8
70°-80°	1439.2	18.7
80°-90°	789.0	10.3
90°-100°	329.2	4.3
100°-110°	134.5	1.8
110°-120°	59.2	0.8
120°-130°	27.0	0.4
130°-140°	11.2	0.1
140°-150°	2.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7120.3	92.7
0°-180°	7684.4	100.0



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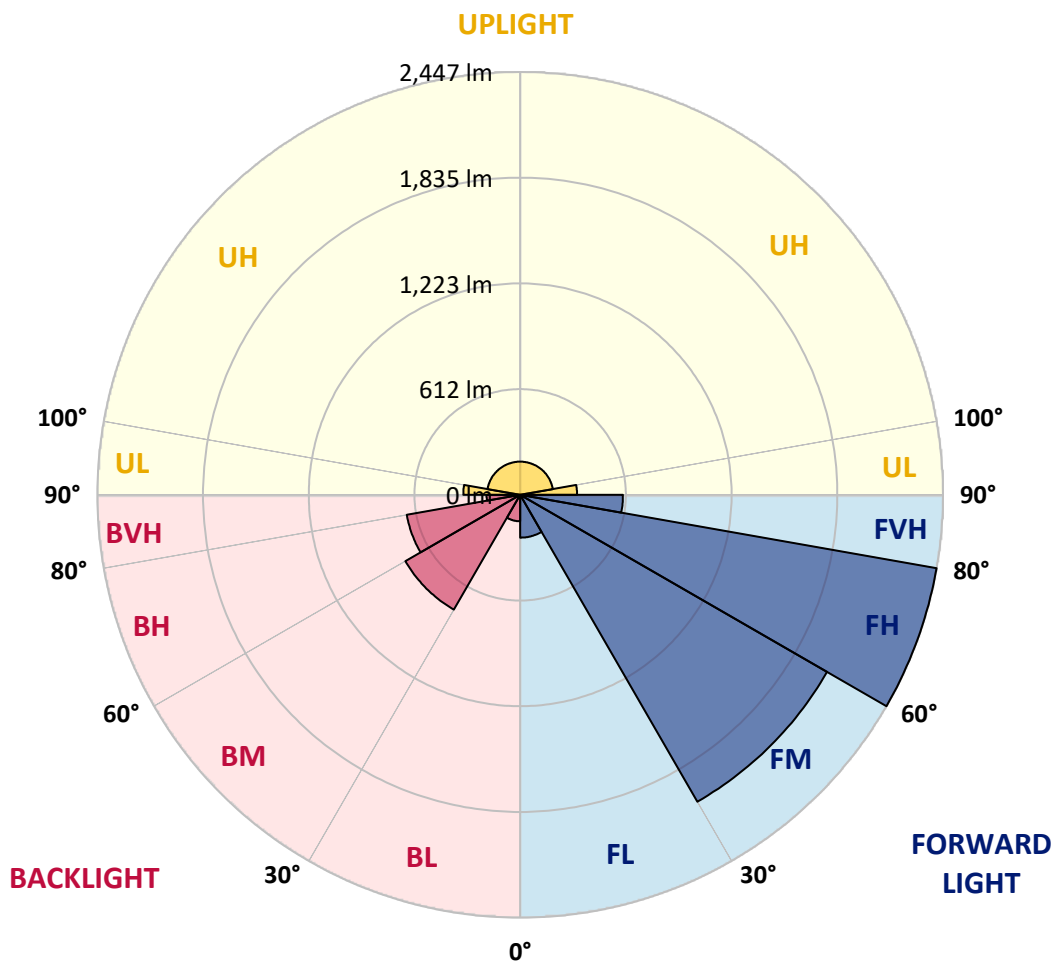
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T4W-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.9	3.2			
FM	(30°-60°)	2050.5	26.7			
FH	(60°-80°)	2446.7	31.8			G2/5000
FVH	(80°-90°)	594.5	7.7			G4/750
BL	(0°-30°)	153.2	2.0	B1/500		
BM	(30°-60°)	767.0	10.0	B1/1000		
BH	(60°-80°)	666.0	8.7	B2/1000		G2/1000
BVH	(80°-90°)	194.5	2.5			G2/225
UL	(90°-100°)	329.2	4.3		U3/500	
UH	(100°-180°)	191.9	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°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	264.2	264.2	263.3	263.3	260.5	257.7	255.8	251.1	248.3	248.3	244.6
5°	292.4	292.4	291.4	289.5	285.8	281.1	275.5	268.9	263.3	262.4	255.8
7.5°	327.0	327.0	325.2	321.4	315.8	309.2	301.8	292.4	284.0	282.0	272.7
10°	370.1	370.1	367.3	361.7	354.2	345.8	335.4	322.3	311.1	310.2	297.1
12.5°	424.5	421.7	419.8	410.4	400.1	388.8	376.7	360.8	349.5	349.5	331.7
15°	486.3	486.3	478.8	466.7	453.5	438.5	425.4	409.5	396.4	395.5	374.8
17.5°	554.7	553.8	545.3	530.4	512.6	497.6	480.7	462.9	448.0	448.0	423.5
20°	633.4	631.6	620.3	600.7	579.1	562.2	543.5	522.8	507.0	507.0	479.8
22.5°	723.4	719.6	705.6	678.4	656.8	632.5	610.9	590.3	573.5	573.5	544.4
25°	824.6	819.9	802.1	767.4	736.5	707.5	685.9	664.4	652.1	647.5	622.2
27.5°	938.9	929.6	909.8	865.8	821.7	786.1	763.6	747.8	736.5	732.7	703.7
30°	1064.5	1055.1	1028.0	972.6	914.5	869.6	848.0	835.9	830.2	825.5	796.5
32.5°	1207.8	1197.6	1160.0	1090.7	1015.8	959.5	938.9	933.2	933.2	929.6	900.5
35°	1363.4	1350.3	1305.3	1218.1	1123.5	1056.0	1036.4	1039.2	1040.1	1037.3	1012.9
37.5°	1529.2	1515.2	1461.8	1357.8	1239.7	1159.1	1139.5	1152.6	1171.3	1160.9	1135.7
40°	1699.7	1686.6	1629.5	1503.0	1361.5	1266.8	1247.2	1273.5	1303.4	1295.0	1266.8
42.5°	1869.3	1863.7	1791.6	1656.7	1491.8	1380.3	1366.2	1406.5	1447.7	1442.1	1411.2
45°	2054.0	2037.1	1966.8	1815.9	1631.4	1511.4	1495.6	1549.9	1606.0	1600.4	1569.5
47.5°	2219.8	2203.9	2137.4	1977.2	1772.0	1641.7	1631.4	1704.4	1775.6	1769.1	1738.2
50°	2359.4	2357.6	2301.3	2135.5	1920.0	1777.6	1776.7	1868.4	1955.6	1953.7	1914.4
52.5°	2493.4	2490.7	2439.1	2289.2	2068.0	1914.4	1921.8	2041.8	2145.8	2145.8	2093.4
55°	2596.6	2595.5	2565.6	2435.3	2214.2	2066.2	2087.7	2219.8	2338.9	2338.9	2286.4
57.5°	2668.7	2667.8	2664.0	2564.6	2354.7	2210.5	2244.1	2395.0	2524.3	2527.2	2457.8
60°	2685.6	2693.9	2731.5	2668.7	2480.3	2341.6	2387.6	2556.3	2689.3	2693.9	2599.3
62.5°	2655.6	2668.7	2744.6	2731.5	2575.9	2459.7	2516.9	2690.3	2818.6	2826.1	2695.9
65°	2556.3	2583.4	2699.6	2742.7	2635.8	2545.9	2621.8	2787.6	2894.5	2904.8	2726.8
66°	2502.9	2531.9	2664.9	2732.4	2649.0	2570.3	2650.0	2814.9	2910.4	2916.9	2716.4
67.5°	2401.6	2430.6	2588.1	2692.1	2649.0	2593.7	2673.4	2833.6	2907.6	2910.4	2679.9
70°	2184.2	2229.2	2405.4	2566.6	2594.6	2581.5	2672.5	2805.4	2839.2	2829.9	2540.3
72.5°	1945.2	1970.6	2163.6	2382.9	2477.5	2502.9	2606.8	2699.6	2677.1	2663.0	2330.4
75°	1631.4	1667.9	1878.8	2129.0	2273.2	2351.0	2462.5	2495.3	2439.1	2409.2	2054.0
77.5°	1362.5	1377.4	1574.2	1831.0	2021.1	2127.0	2232.0	2242.3	2126.1	2100.8	1732.6
80°	1083.2	1098.2	1279.1	1525.5	1731.7	1871.3	1963.0	1935.9	1789.8	1765.4	1432.7
82.5°	846.2	866.7	1005.5	1240.6	1440.2	1587.3	1657.6	1613.6	1474.9	1440.2	1141.3
85°	649.4	659.7	789.0	991.3	1167.5	1301.5	1359.6	1310.9	1162.0	1134.8	896.7
87.5°	494.8	505.0	614.7	774.0	929.6	1043.8	1088.8	1026.9	906.1	888.3	696.2
90°	377.7	385.1	472.3	609.1	729.1	823.7	854.6	805.9	698.1	682.2	536.0
92.5°	289.5	296.1	363.6	472.3	570.7	651.2	664.4	618.5	535.0	521.0	412.2
95°	222.1	229.6	284.0	369.2	446.0	507.0	516.3	476.9	410.4	399.2	317.6
97.5°	174.3	177.1	223.0	292.4	355.2	397.3	401.1	371.0	313.9	306.4	244.6
100°	139.6	141.5	177.1	231.5	282.9	313.9	315.8	284.9	240.8	235.2	187.4
102.5°	113.3	115.3	142.4	186.5	224.8	250.2	249.3	224.8	186.5	179.0	146.2
105°	93.7	94.6	116.2	151.8	182.7	199.6	198.7	175.2	143.3	138.7	114.4
107.5°	78.7	79.7	95.5	123.7	150.0	164.0	161.2	137.8	111.5	108.7	90.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	66.5	67.5	79.7	103.1	126.5	135.8	132.2	109.7	88.1	84.3	73.0
112.5°	58.1	58.1	67.5	86.2	105.9	114.4	108.7	89.0	69.4	67.5	59.9
115°	50.6	51.6	58.1	73.0	89.9	95.5	89.9	71.2	56.3	54.3	49.6
117.5°	45.0	45.0	50.6	61.9	75.9	79.7	74.1	58.1	45.9	45.0	42.1
120°	40.3	40.3	44.1	52.5	63.7	67.5	61.9	47.8	37.4	36.5	35.6
122.5°	36.5	36.5	38.5	45.0	54.3	56.3	50.6	39.4	31.8	30.9	30.9
125°	32.8	32.8	33.8	38.5	45.9	47.8	42.1	31.8	27.2	26.2	26.2
127.5°	30.0	30.0	30.0	33.8	37.4	39.4	34.7	26.2	22.5	22.5	23.4
130°	27.2	27.2	27.2	28.1	30.9	31.8	28.1	21.6	19.6	19.6	19.6
132.5°	24.3	24.3	23.4	24.3	25.3	25.3	21.6	17.8	16.9	16.9	17.8
135°	21.6	21.6	20.7	20.7	20.7	19.6	16.9	14.0	14.0	14.0	15.0
137.5°	18.7	18.7	17.8	16.9	16.0	14.0	12.2	11.3	11.3	11.3	12.2
140°	16.0	16.0	15.0	13.1	11.3	10.3	8.4	8.4	9.4	9.4	9.4
142.5°	12.2	12.2	11.3	10.3	8.4	6.5	5.6	5.6	6.5	6.5	7.5
145°	9.4	9.4	8.4	6.5	4.7	3.8	2.8	3.8	4.7	4.7	5.6
147.5°	6.5	6.5	5.6	4.7	2.8	0.9	1.8	2.8	3.8	3.8	4.7
150°	3.8	3.8	2.8	1.8	0.0	0.0	0.9	1.8	2.8	2.8	2.8
152.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	242.6	240.8	237.1	234.3	230.5	228.6	226.8	224.8	223.9	222.1	222.1
5°	251.1	248.3	241.7	236.1	229.6	224.8	220.2	217.4	215.5	214.6	214.6
7.5°	267.1	262.4	252.1	243.7	234.3	228.6	223.0	217.4	214.6	213.7	213.7
10°	289.5	284.0	269.9	257.7	245.5	237.1	231.5	224.8	222.1	220.2	220.2
12.5°	322.3	312.9	296.1	278.3	262.4	252.1	244.6	239.9	239.9	241.7	240.8
15°	363.6	353.2	328.9	306.4	284.9	270.8	266.1	265.1	265.1	266.1	266.1
17.5°	408.6	394.4	366.4	337.4	312.0	298.0	292.4	290.5	290.5	291.4	293.3
20°	462.9	445.1	409.5	372.0	344.8	328.0	319.6	316.7	318.5	322.3	322.3
22.5°	525.7	506.0	458.2	410.4	378.6	357.0	346.7	343.9	347.6	352.3	353.2
25°	597.8	571.6	511.6	452.6	411.3	384.2	373.9	370.1	375.7	381.4	384.2
27.5°	677.5	643.7	569.7	494.8	440.4	407.6	396.4	395.5	402.9	410.4	413.3
30°	765.6	724.4	631.6	538.8	470.4	428.2	416.0	418.9	427.3	436.7	438.5
32.5°	863.0	814.3	696.2	581.9	493.8	444.2	430.0	436.7	446.9	459.1	461.0
35°	968.9	909.8	764.7	622.2	514.4	456.3	442.3	450.7	462.0	475.1	476.9
37.5°	1084.1	1012.0	833.0	657.8	530.4	463.8	448.9	459.1	472.3	484.5	486.3
40°	1204.1	1117.9	901.4	689.7	541.7	468.5	451.6	462.9	476.0	485.4	487.2
42.5°	1340.0	1232.2	967.9	714.9	548.2	469.4	451.6	462.0	475.1	481.6	482.5
45°	1484.3	1353.1	1033.6	735.6	551.0	468.5	448.9	460.1	470.4	473.2	474.1
47.5°	1634.2	1476.7	1092.6	747.8	551.0	464.7	445.1	453.5	462.0	461.0	462.0
50°	1801.0	1606.0	1147.9	755.2	547.3	460.1	441.3	448.0	453.5	448.9	449.8
52.5°	1958.4	1734.4	1192.9	758.1	540.6	454.5	437.6	443.2	446.0	439.5	439.5
55°	2114.8	1855.3	1229.4	752.5	532.2	449.8	434.8	440.4	440.4	432.0	432.0
57.5°	2260.1	1958.4	1250.0	741.2	521.9	446.0	432.9	438.5	438.5	427.3	427.3
60°	2372.5	2032.4	1251.0	723.4	509.7	441.3	432.0	438.5	437.6	426.4	425.4
62.5°	2441.0	2065.2	1229.4	698.1	497.6	436.7	431.1	437.6	437.6	425.4	424.5
65°	2441.0	2043.7	1182.5	668.1	483.5	431.1	429.1	437.6	435.7	424.5	422.6
66°	2422.2	2020.2	1157.3	655.0	478.8	429.1	428.2	437.6	435.7	424.5	421.7
67.5°	2370.7	1964.1	1116.0	633.4	467.6	424.5	426.4	434.8	433.8	421.7	419.8
70°	2220.7	1818.8	1026.9	595.1	450.7	416.0	420.7	428.2	427.3	416.0	412.2
72.5°	2000.6	1627.6	925.8	553.8	432.0	404.8	410.4	417.9	416.0	406.6	402.9
75°	1741.0	1411.2	816.1	509.7	409.5	389.8	396.4	402.9	401.1	392.6	387.0
77.5°	1460.9	1188.2	707.5	463.8	386.1	371.0	377.7	384.2	380.4	373.0	369.2
80°	1186.3	972.6	604.4	417.9	358.9	349.5	356.1	357.9	355.2	348.6	343.9
82.5°	946.4	782.5	507.0	373.0	329.8	324.2	328.9	328.9	326.1	319.6	314.9
85°	743.1	624.1	426.4	328.0	300.7	297.1	299.8	297.1	293.3	286.7	282.9
87.5°	585.6	500.3	357.0	288.6	268.9	268.0	268.9	262.4	258.6	253.0	249.3
90°	457.3	392.6	298.0	251.1	239.9	239.0	237.1	230.5	222.1	216.5	213.7
92.5°	357.0	315.8	246.4	214.6	209.0	208.1	205.2	196.8	191.2	183.6	180.9
95°	282.9	252.1	204.3	185.6	182.7	181.8	178.0	168.7	161.2	153.6	151.8
97.5°	222.1	199.6	170.5	159.3	158.4	157.4	152.7	142.4	134.0	126.5	125.5
100°	174.3	160.2	142.4	136.8	136.8	135.8	131.1	120.9	110.6	103.1	102.1
102.5°	138.7	129.3	119.0	117.1	117.1	116.2	111.5	103.1	90.9	82.4	82.4
105°	110.6	105.0	99.3	100.2	101.2	100.2	95.5	85.3	73.0	66.5	66.5
107.5°	89.0	85.3	83.4	85.3	86.2	86.2	81.5	70.3	59.0	53.4	53.4



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CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T4W-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	72.1	70.3	70.3	72.1	74.1	74.1	68.4	59.0	47.8	43.1	43.1
112.5°	59.0	58.1	59.0	62.8	63.7	62.8	58.1	48.7	38.5	35.6	35.6
115°	49.6	49.6	50.6	53.4	55.2	53.4	48.7	39.4	30.9	29.1	29.1
117.5°	42.1	42.1	43.1	45.9	46.9	45.0	40.3	31.8	25.3	24.3	24.3
120°	35.6	35.6	36.5	38.5	39.4	37.4	32.8	26.2	20.7	19.6	20.7
122.5°	30.9	30.9	31.8	32.8	33.8	31.8	27.2	20.7	16.9	16.9	16.9
125°	27.2	27.2	27.2	28.1	28.1	26.2	22.5	16.9	13.1	14.0	14.0
127.5°	23.4	23.4	23.4	23.4	23.4	21.6	17.8	13.1	11.3	12.2	12.2
130°	20.7	20.7	19.6	19.6	18.7	17.8	14.0	10.3	9.4	10.3	10.3
132.5°	17.8	17.8	16.9	16.0	15.0	14.0	11.3	7.5	7.5	8.4	8.4
135°	15.0	15.0	14.0	13.1	12.2	10.3	7.5	5.6	5.6	6.5	6.5
137.5°	12.2	12.2	11.3	10.3	8.4	7.5	5.6	3.8	4.7	5.6	5.6
140°	9.4	9.4	8.4	7.5	5.6	3.8	2.8	2.8	2.8	3.8	3.8
142.5°	7.5	7.5	6.5	4.7	2.8	1.8	0.9	0.9	1.8	2.8	2.8
145°	5.6	5.6	4.7	3.8	1.8	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	4.7	3.8	3.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.8	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	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)