

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: P254911

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T4W-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254911
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-AF24-90-D-U-T4W-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8284.9 lumens
Efficiency: N/A
Efficacy: 88.1 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

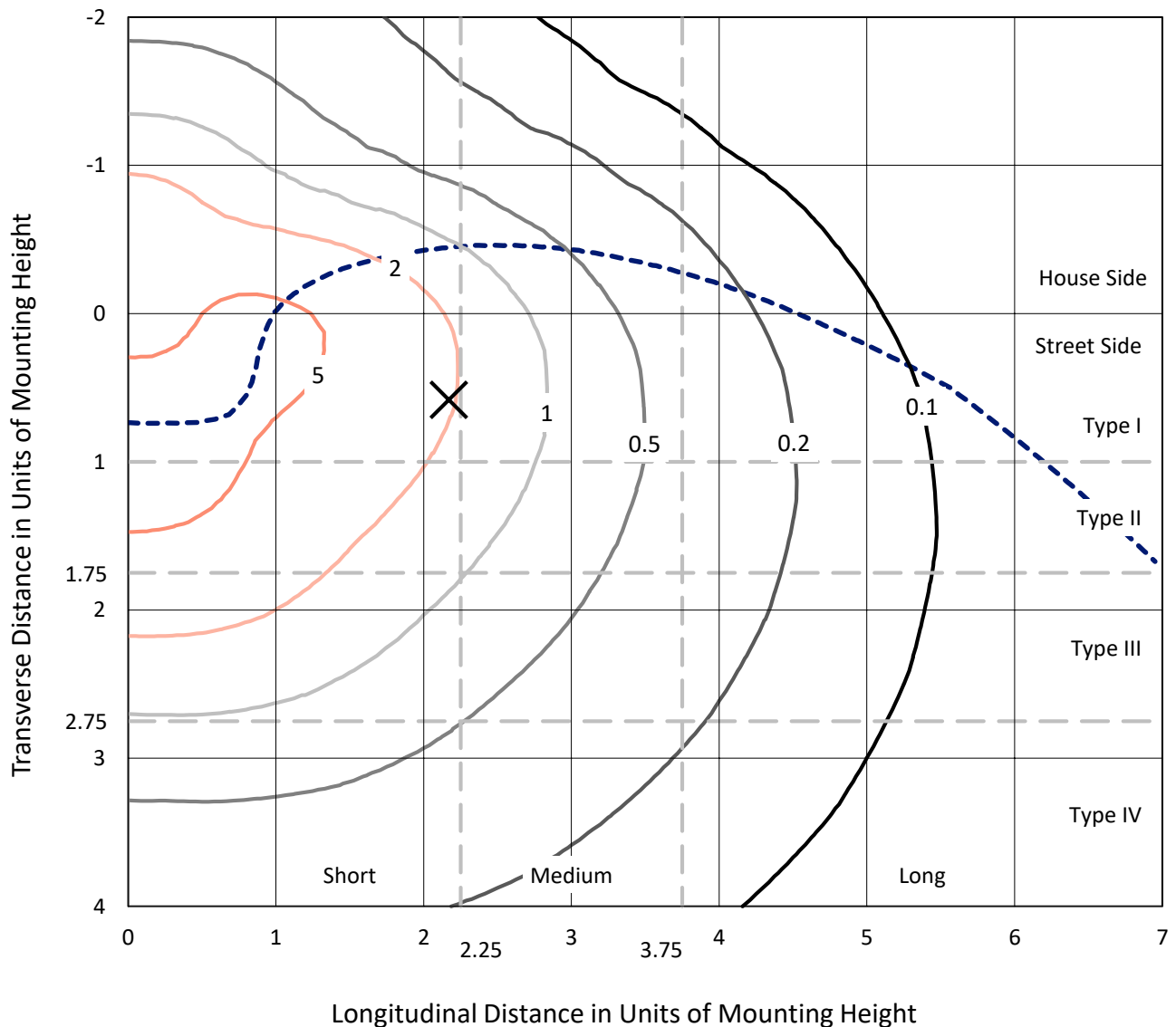
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

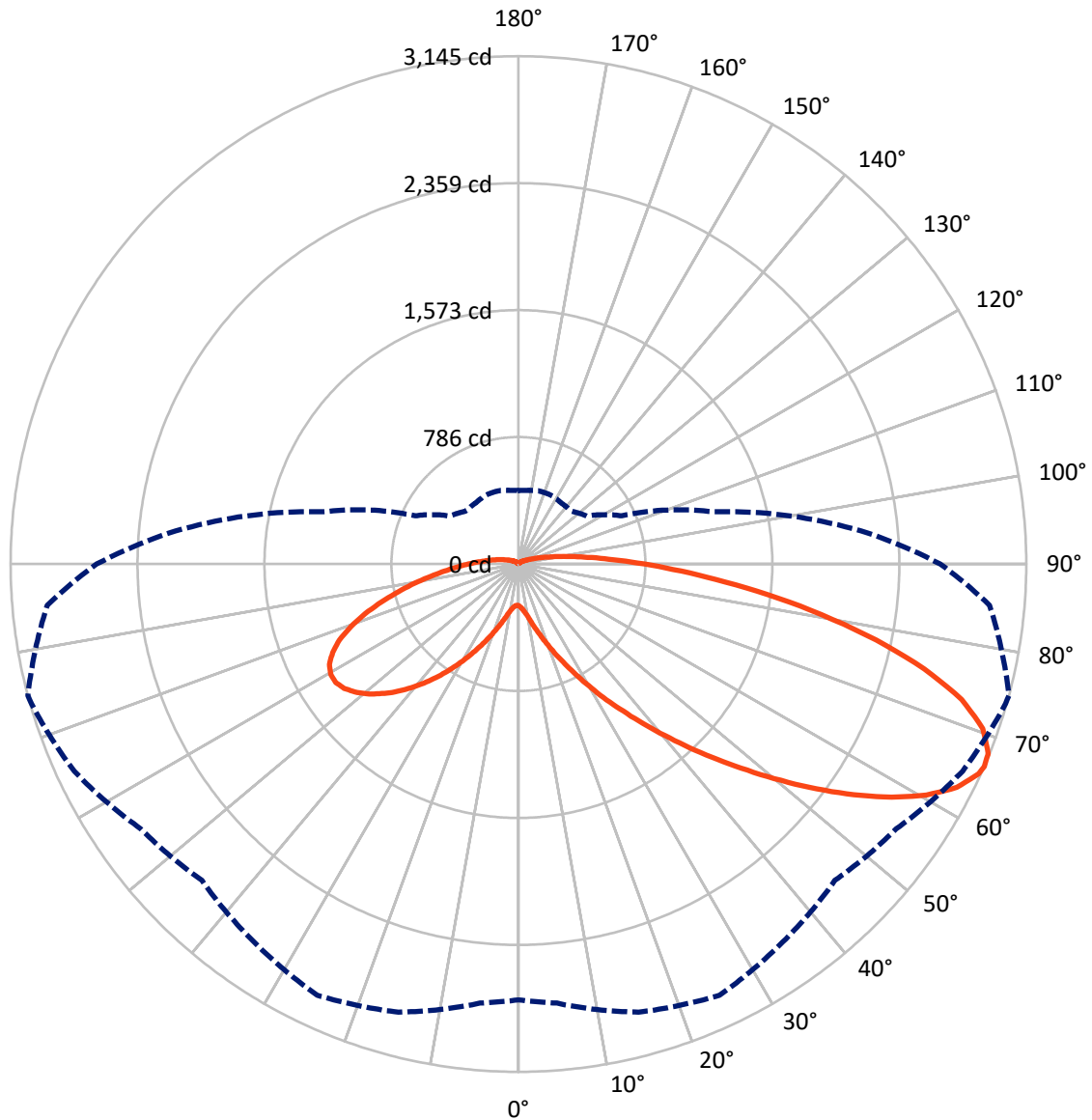


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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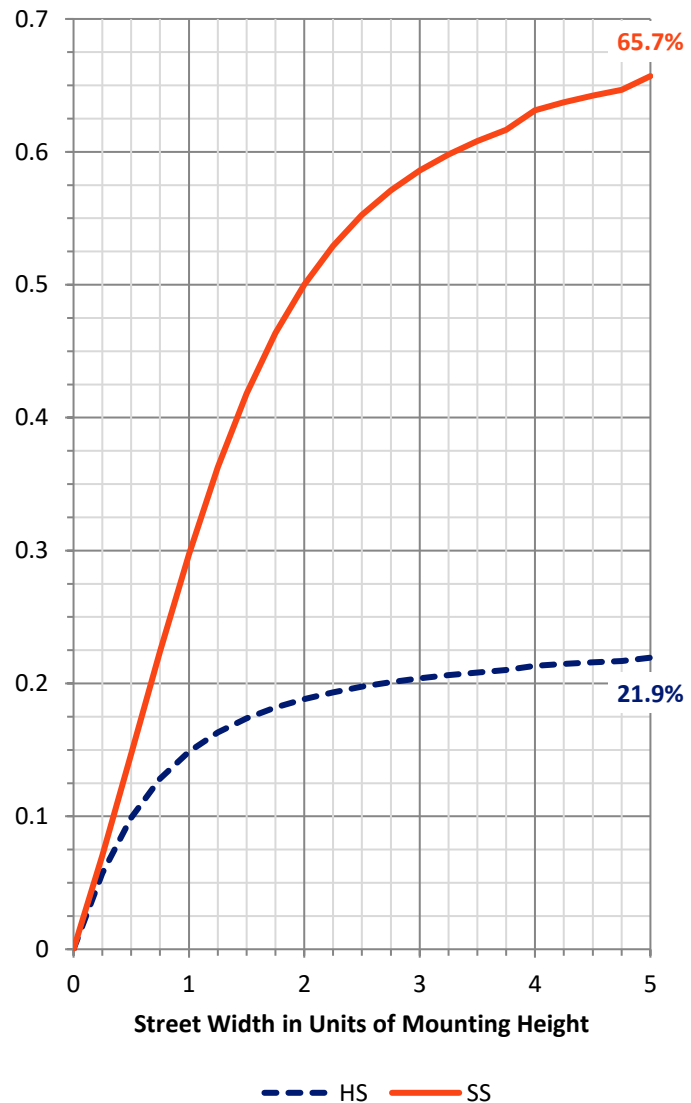
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1919.9	206.9	2126.8
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	5756.8	401.3	6158.1
	% Fixture	69.5	4.8	74.3
Total	Lumens	7676.7	608.2	8284.9
	% Fixture	92.7	7.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	0.3
10°-20°	114.8	1.4
20°-30°	290.3	3.5
30°-40°	580.8	7.0
40°-50°	987.5	11.9
50°-60°	1469.4	17.7
60°-70°	1804.3	21.8
70°-80°	1551.6	18.7
80°-90°	850.6	10.3
90°-100°	354.9	4.3
100°-110°	145.0	1.8
110°-120°	63.9	0.8
120°-130°	29.2	0.4
130°-140°	12.0	0.1
140°-150°	2.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7676.7	92.7
0°-180°	8284.9	100.0



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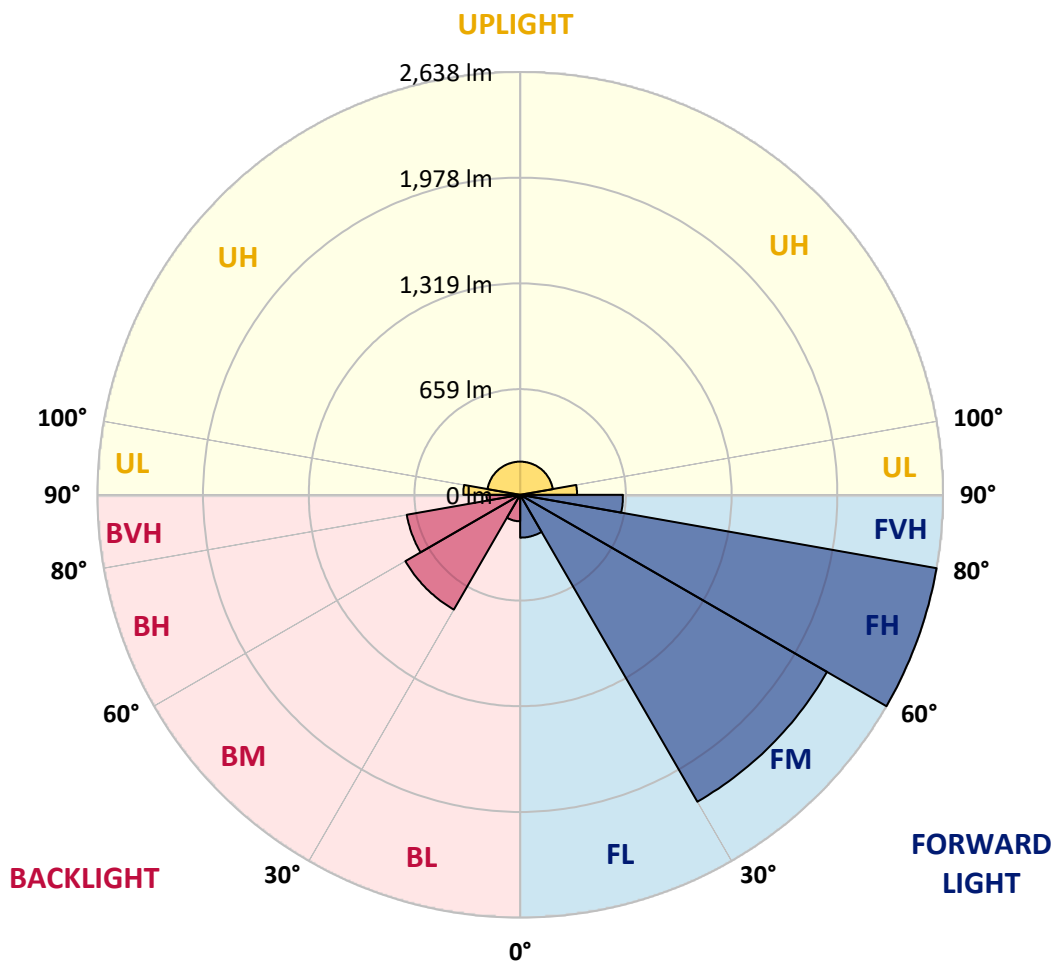
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T4W-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.3	3.2			
FM	(30°-60°)	2210.8	26.7			
FH	(60°-80°)	2637.9	31.8			G2/5000
FVH	(80°-90°)	640.9	7.7			G4/750
BL	(0°-30°)	165.2	2.0	B1/500		
BM	(30°-60°)	827.0	10.0	B1/1000		
BH	(60°-80°)	718.0	8.7	B2/1000		G2/1000
BVH	(80°-90°)	209.7	2.5			G2/225
UL	(90°-100°)	354.9	4.3		U3/500	
UH	(100°-180°)	206.9	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°	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6
2.5°	284.9	284.9	283.9	283.9	280.8	277.8	275.8	270.8	267.7	267.7	263.7
5°	315.2	315.2	314.1	312.2	308.1	303.1	297.1	289.9	283.9	282.8	275.8
7.5°	352.6	352.6	350.6	346.5	340.4	333.4	325.3	315.2	306.1	304.1	294.0
10°	399.1	399.1	396.0	389.9	381.9	372.8	361.7	347.5	335.4	334.4	320.3
12.5°	457.7	454.6	452.6	442.5	431.4	419.2	406.1	388.9	376.9	376.9	357.6
15°	524.4	524.4	516.3	503.1	489.0	472.8	458.7	441.5	427.4	426.4	404.1
17.5°	598.1	597.1	588.0	571.8	552.6	536.4	518.2	499.1	482.9	482.9	456.6
20°	682.9	680.9	668.8	647.5	624.3	606.2	585.9	563.7	546.6	546.6	517.2
22.5°	779.9	775.9	760.8	731.4	708.2	681.9	658.7	636.5	618.3	620.3	587.0
25°	889.0	883.9	864.8	827.4	794.0	762.7	739.5	716.3	703.2	698.1	670.9
27.5°	1012.3	1002.2	980.9	933.4	886.0	847.6	823.4	806.2	794.0	790.0	758.7
30°	1147.6	1137.5	1108.3	1048.6	986.0	937.5	914.3	901.1	895.1	890.1	858.8
32.5°	1302.2	1291.1	1250.7	1176.0	1095.1	1034.5	1012.3	1006.2	1006.2	1002.2	970.9
35°	1469.9	1455.8	1407.3	1313.4	1211.3	1138.5	1117.4	1120.3	1121.4	1118.4	1092.1
37.5°	1648.7	1633.6	1576.0	1463.8	1336.6	1249.6	1228.5	1242.6	1262.8	1251.7	1224.5
40°	1832.6	1818.5	1756.8	1620.5	1467.9	1365.8	1344.7	1372.9	1405.2	1396.1	1365.8
42.5°	2015.4	2009.4	1931.6	1786.2	1608.3	1488.1	1472.9	1516.4	1560.8	1554.8	1521.4
45°	2214.5	2196.3	2120.5	1957.8	1758.9	1629.6	1612.4	1671.0	1731.5	1725.5	1692.2
47.5°	2393.3	2376.1	2304.4	2131.6	1910.4	1770.0	1758.9	1837.6	1914.5	1907.4	1874.0
50°	2543.8	2541.8	2481.2	2302.4	2070.0	1916.5	1915.5	2014.5	2108.4	2106.4	2063.9
52.5°	2688.3	2685.2	2629.7	2468.1	2229.6	2063.9	2072.0	2201.4	2313.5	2313.5	2256.9
55°	2799.4	2798.4	2766.1	2625.6	2387.3	2227.6	2250.8	2393.3	2521.6	2521.6	2465.0
57.5°	2877.3	2876.2	2872.1	2765.0	2538.8	2383.2	2419.6	2582.2	2721.7	2724.6	2649.9
60°	2895.4	2904.5	2944.9	2877.3	2674.1	2524.6	2574.2	2755.9	2899.5	2904.5	2802.5
62.5°	2863.0	2877.3	2959.0	2944.9	2777.2	2651.9	2713.6	2900.5	3038.9	3047.0	2906.5
65°	2755.9	2785.3	2910.5	2957.0	2841.9	2744.9	2826.7	3005.5	3120.7	3131.8	2939.9
66°	2698.4	2729.7	2873.2	2945.9	2856.0	2771.2	2857.0	3034.8	3137.9	3145.0	2928.7
67.5°	2589.3	2620.6	2790.3	2902.4	2856.0	2796.3	2882.3	3055.0	3134.8	3137.9	2889.3
70°	2354.9	2403.4	2593.3	2767.1	2797.4	2783.2	2881.2	3024.7	3061.1	3051.0	2738.8
72.5°	2097.3	2124.6	2332.6	2569.0	2671.1	2698.4	2810.6	2910.5	2886.3	2871.1	2512.5
75°	1758.9	1798.2	2025.5	2295.3	2450.9	2534.8	2655.0	2690.3	2629.7	2597.4	2214.5
77.5°	1469.0	1485.1	1697.2	1974.0	2179.1	2293.3	2406.4	2417.5	2292.2	2265.0	1868.0
80°	1167.9	1184.1	1379.0	1644.7	1867.0	2017.5	2116.5	2087.2	1929.6	1903.3	1544.7
82.5°	912.3	934.5	1084.0	1337.6	1552.7	1711.4	1787.1	1739.6	1590.2	1552.7	1230.5
85°	700.1	711.3	850.6	1068.9	1258.7	1403.3	1465.9	1413.3	1252.7	1223.4	966.8
87.5°	533.4	544.5	662.8	834.4	1002.2	1125.5	1173.9	1107.2	976.9	957.7	750.6
90°	407.1	415.2	509.1	656.6	785.9	888.0	921.4	868.8	752.7	735.5	577.9
92.5°	312.2	319.3	392.0	509.1	615.2	702.2	716.3	666.8	576.8	561.7	444.5
95°	239.5	247.6	306.1	398.0	480.9	546.6	556.7	514.2	442.5	430.4	342.5
97.5°	187.9	191.0	240.4	315.2	382.9	428.3	432.4	400.1	338.4	330.3	263.7
100°	150.6	152.5	191.0	249.5	305.1	338.4	340.4	307.1	259.6	253.6	202.0
102.5°	122.2	124.3	153.5	201.0	242.4	269.8	268.7	242.4	201.0	192.9	157.6
105°	101.1	102.0	125.3	163.7	197.0	215.2	214.2	188.9	154.6	149.6	123.3
107.5°	84.9	85.8	103.0	133.4	161.6	176.8	173.8	148.5	120.2	117.2	98.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	71.7	72.7	85.8	111.1	136.4	146.5	142.5	118.2	94.9	90.9	78.8
112.5°	62.6	62.6	72.7	93.0	114.2	123.3	117.2	96.0	74.8	72.7	64.7
115°	54.5	55.5	62.6	78.8	97.0	103.0	97.0	76.8	60.7	58.6	53.5
117.5°	48.5	48.5	54.5	66.7	81.8	85.8	79.8	62.6	49.5	48.5	45.4
120°	43.5	43.5	47.5	56.6	68.7	72.7	66.7	51.6	40.4	39.4	38.4
122.5°	39.4	39.4	41.4	48.5	58.6	60.7	54.5	42.5	34.4	33.3	33.3
125°	35.4	35.4	36.4	41.4	49.5	51.6	45.4	34.4	29.3	28.3	28.3
127.5°	32.3	32.3	32.3	36.4	40.4	42.5	37.3	28.3	24.2	24.2	25.3
130°	29.3	29.3	29.3	30.3	33.3	34.4	30.3	23.2	21.2	21.2	21.2
132.5°	26.3	26.3	25.3	26.3	27.3	27.3	23.2	19.2	18.2	18.2	19.2
135°	23.2	23.2	22.2	22.2	22.2	21.2	18.2	15.1	15.1	15.1	16.2
137.5°	20.3	20.3	19.2	18.2	17.2	15.1	13.1	12.2	12.2	12.2	13.1
140°	17.2	17.2	16.2	14.1	12.2	11.2	9.1	9.1	10.1	10.1	10.1
142.5°	13.1	13.1	12.2	11.2	9.1	7.1	6.0	6.0	7.1	7.1	8.1
145°	10.1	10.1	9.1	7.1	5.0	4.1	3.1	4.1	5.0	5.0	6.0
147.5°	7.1	7.1	6.0	5.0	3.1	1.0	2.0	3.1	4.1	4.1	5.0
150°	4.1	4.1	3.1	2.0	0.0	0.0	1.0	2.0	3.1	3.1	3.1
152.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
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°	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6
2.5°	261.7	259.6	255.6	252.6	248.5	246.5	244.5	242.4	241.4	239.5	239.5
5°	270.8	267.7	260.6	254.6	247.6	242.4	237.4	234.4	232.3	231.4	231.4
7.5°	288.0	282.8	271.8	262.7	252.6	246.5	240.4	234.4	231.4	230.4	230.4
10°	312.2	306.1	290.9	277.8	264.6	255.6	249.5	242.4	239.5	237.4	237.4
12.5°	347.5	337.5	319.3	300.0	282.8	271.8	263.7	258.6	258.6	260.6	259.6
15°	392.0	380.8	354.6	330.3	307.1	292.0	286.9	285.9	285.9	286.9	286.9
17.5°	440.5	425.3	395.0	363.7	336.4	321.3	315.2	313.2	313.2	314.1	316.2
20°	499.1	479.9	441.5	401.1	371.7	353.6	344.5	341.5	343.5	347.5	347.5
22.5°	566.7	545.5	494.0	442.5	408.2	384.9	373.8	370.7	374.8	379.8	380.8
25°	644.6	616.2	551.6	487.9	443.6	414.2	403.0	399.1	405.1	411.1	414.2
27.5°	730.4	694.1	614.3	533.4	474.9	439.5	427.4	426.4	434.4	442.5	445.5
30°	825.4	780.9	680.9	580.9	507.2	461.7	448.6	451.6	460.6	470.8	472.8
32.5°	930.5	877.9	750.6	627.4	532.4	478.8	463.7	470.8	481.9	495.0	497.1
35°	1044.6	980.9	824.4	670.9	554.6	492.0	476.8	485.9	498.1	512.2	514.2
37.5°	1168.8	1091.1	898.2	709.2	571.8	500.1	484.0	495.0	509.1	522.3	524.4
40°	1298.2	1205.2	971.9	743.6	583.9	505.1	486.9	499.1	513.2	523.3	525.3
42.5°	1444.7	1328.5	1043.6	770.8	591.0	506.2	486.9	498.1	512.2	519.2	520.3
45°	1600.2	1458.8	1114.3	793.1	594.0	505.1	484.0	496.0	507.2	510.1	511.2
47.5°	1761.9	1592.1	1177.9	806.2	594.0	501.0	479.9	489.0	498.1	497.1	498.1
50°	1941.7	1731.5	1237.6	814.3	590.0	496.0	475.9	482.9	489.0	484.0	484.9
52.5°	2111.5	1870.0	1286.1	817.3	582.9	490.0	471.8	477.8	480.9	473.8	473.8
55°	2280.2	2000.3	1325.4	811.2	573.9	484.9	468.7	474.9	474.9	465.7	465.7
57.5°	2436.8	2111.5	1347.6	799.1	562.7	480.9	466.8	472.8	472.8	460.6	460.6
60°	2558.0	2191.3	1348.7	779.9	549.5	475.9	465.7	472.8	471.8	459.7	458.7
62.5°	2631.7	2226.6	1325.4	752.7	536.4	470.8	464.7	471.8	471.8	458.7	457.7
65°	2631.7	2203.3	1274.9	720.4	521.3	464.7	462.7	471.8	469.7	457.7	455.6
66°	2611.5	2178.1	1247.7	706.1	516.3	462.7	461.7	471.8	469.7	457.7	454.6
67.5°	2555.9	2117.5	1203.2	682.9	504.1	457.7	459.7	468.7	467.8	454.6	452.6
70°	2394.3	1960.9	1107.2	641.5	485.9	448.6	453.6	461.7	460.6	448.6	444.5
72.5°	2156.9	1754.8	998.1	597.1	465.7	436.4	442.5	450.6	448.6	438.4	434.4
75°	1877.0	1521.4	879.9	549.5	441.5	420.2	427.4	434.4	432.4	423.3	417.3
77.5°	1575.0	1281.0	762.7	500.1	416.2	400.1	407.1	414.2	410.2	402.1	398.0
80°	1279.0	1048.6	651.6	450.6	386.9	376.9	383.9	386.0	382.9	375.8	370.7
82.5°	1020.4	843.5	546.6	402.1	355.6	349.5	354.6	354.6	351.6	344.5	339.4
85°	801.2	672.8	459.7	353.6	324.3	320.3	323.3	320.3	316.2	309.1	305.1
87.5°	631.4	539.5	384.9	311.2	289.9	289.0	289.9	282.8	278.9	272.7	268.7
90°	493.0	423.3	321.3	270.8	258.6	257.6	255.6	248.5	239.5	233.3	230.4
92.5°	384.9	340.4	265.7	231.4	225.3	224.2	221.3	212.2	206.1	198.0	195.0
95°	305.1	271.8	220.2	200.0	197.0	196.0	191.9	181.9	173.8	165.7	163.7
97.5°	239.5	215.2	183.8	171.8	170.7	169.7	164.7	153.5	144.4	136.4	135.3
100°	187.9	172.8	153.5	147.5	147.5	146.5	141.5	130.3	119.2	111.1	110.1
102.5°	149.6	139.4	128.3	126.2	126.2	125.3	120.2	111.1	98.0	88.9	88.9
105°	119.2	113.1	107.1	108.1	109.1	108.1	103.0	92.0	78.8	71.7	71.7
107.5°	96.0	92.0	89.9	92.0	93.0	93.0	87.9	75.8	63.6	57.6	57.6



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CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T4W-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	77.7	75.8	75.8	77.7	79.8	79.8	73.8	63.6	51.6	46.4	46.4
112.5°	63.6	62.6	63.6	67.7	68.7	67.7	62.6	52.6	41.4	38.4	38.4
115°	53.5	53.5	54.5	57.6	59.6	57.6	52.6	42.5	33.3	31.3	31.3
117.5°	45.4	45.4	46.4	49.5	50.5	48.5	43.5	34.4	27.3	26.3	26.3
120°	38.4	38.4	39.4	41.4	42.5	40.4	35.4	28.3	22.2	21.2	22.2
122.5°	33.3	33.3	34.4	35.4	36.4	34.4	29.3	22.2	18.2	18.2	18.2
125°	29.3	29.3	29.3	30.3	30.3	28.3	24.2	18.2	14.1	15.1	15.1
127.5°	25.3	25.3	25.3	25.3	25.3	23.2	19.2	14.1	12.2	13.1	13.1
130°	22.2	22.2	21.2	21.2	20.3	19.2	15.1	11.2	10.1	11.2	11.2
132.5°	19.2	19.2	18.2	17.2	16.2	15.1	12.2	8.1	8.1	9.1	9.1
135°	16.2	16.2	15.1	14.1	13.1	11.2	8.1	6.0	6.0	7.1	7.1
137.5°	13.1	13.1	12.2	11.2	9.1	8.1	6.0	4.1	5.0	6.0	6.0
140°	10.1	10.1	9.1	8.1	6.0	4.1	3.1	3.1	3.1	4.1	4.1
142.5°	8.1	8.1	7.1	5.0	3.1	2.0	1.0	1.0	2.0	3.1	3.1
145°	6.0	6.0	5.0	4.1	2.0	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	5.0	4.1	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.1	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	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)