

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: P266154

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266154
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-AF24-70-D-U-T2U-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 6031.2 lumens
Efficiency: N/A
Efficacy: 81.5 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): 74
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

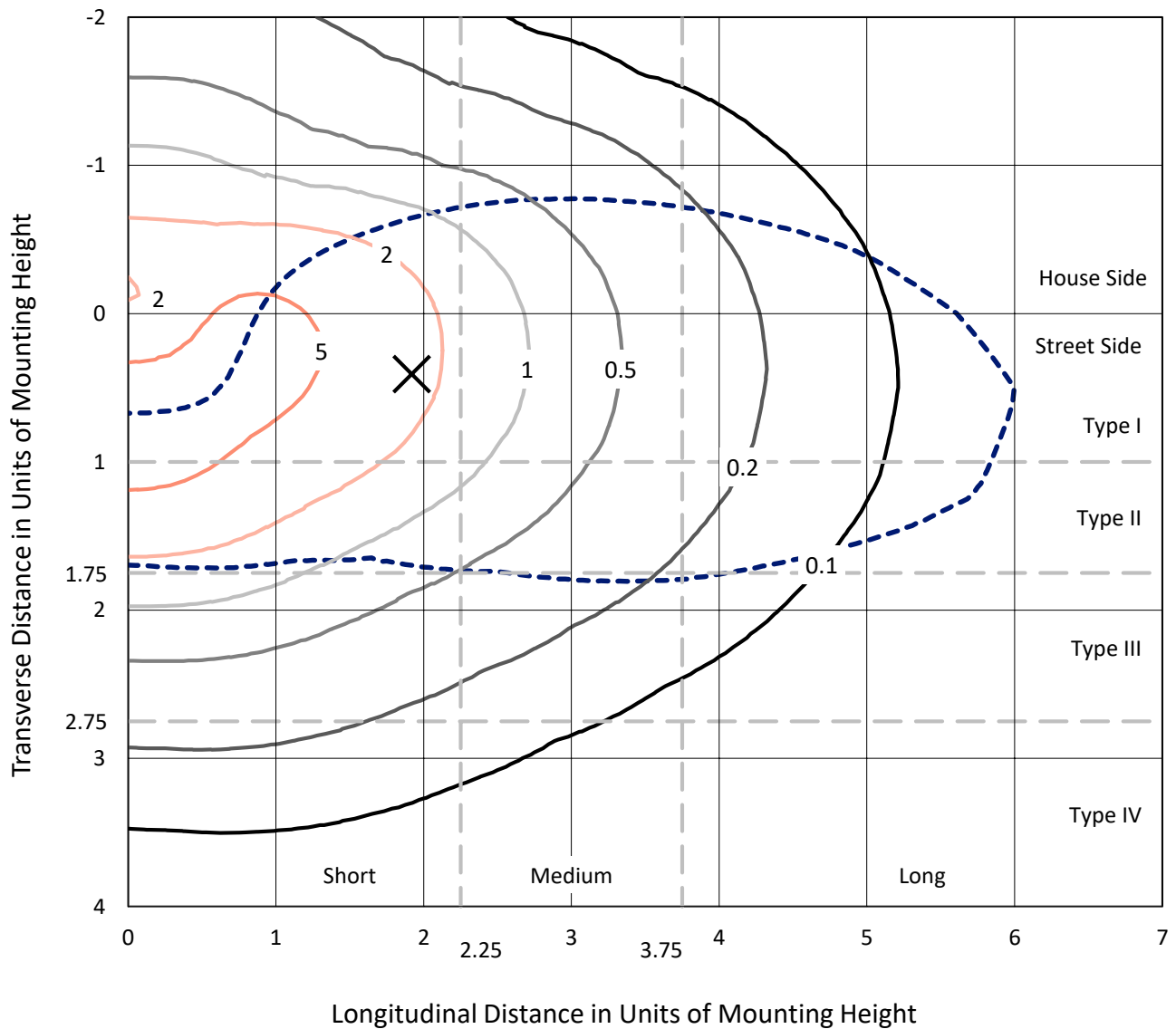


REPORT NUMBER: P266154

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

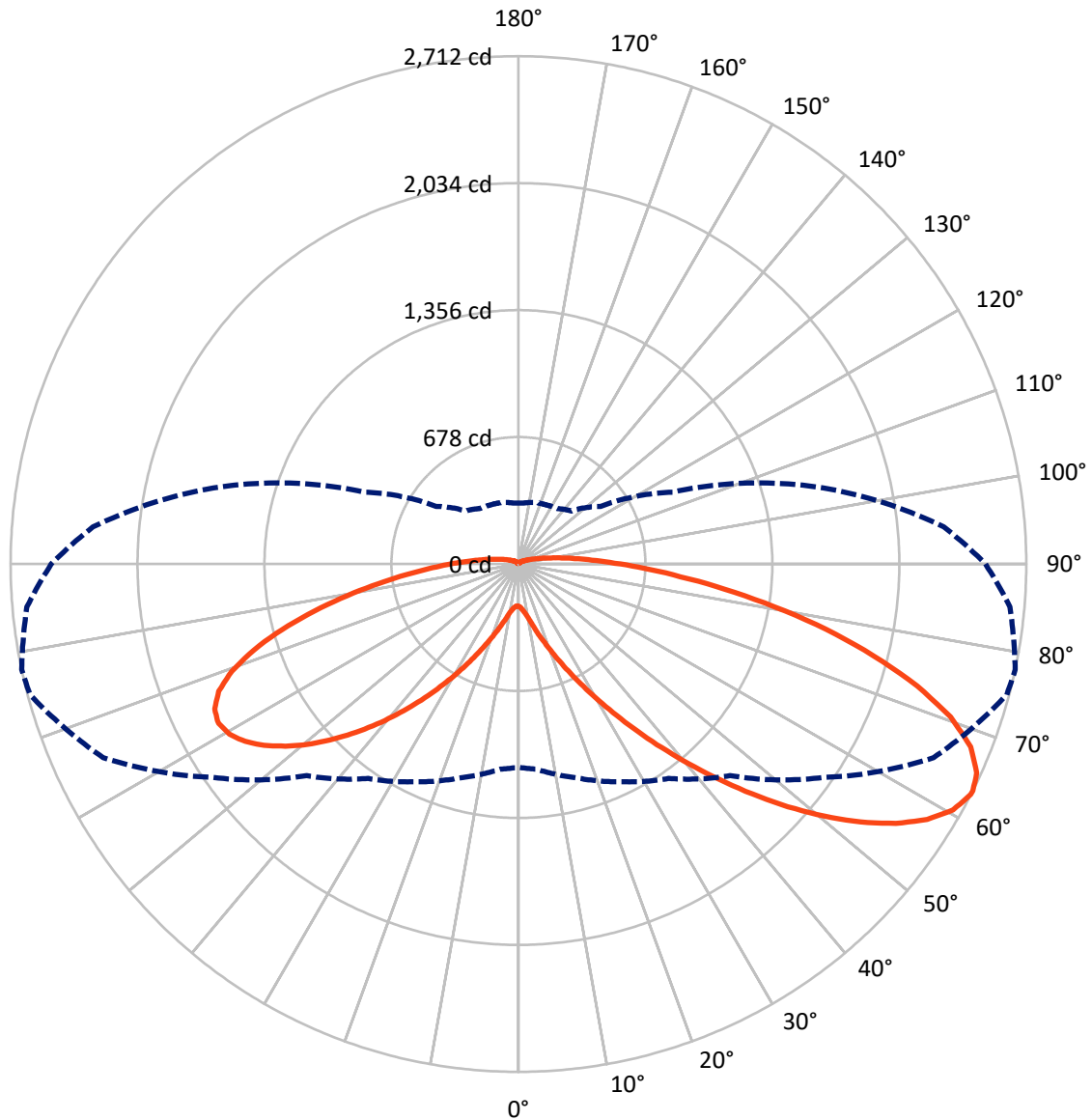


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266154

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

Luminous Intensity Polar Plot



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



REPORT NUMBER: P266154

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

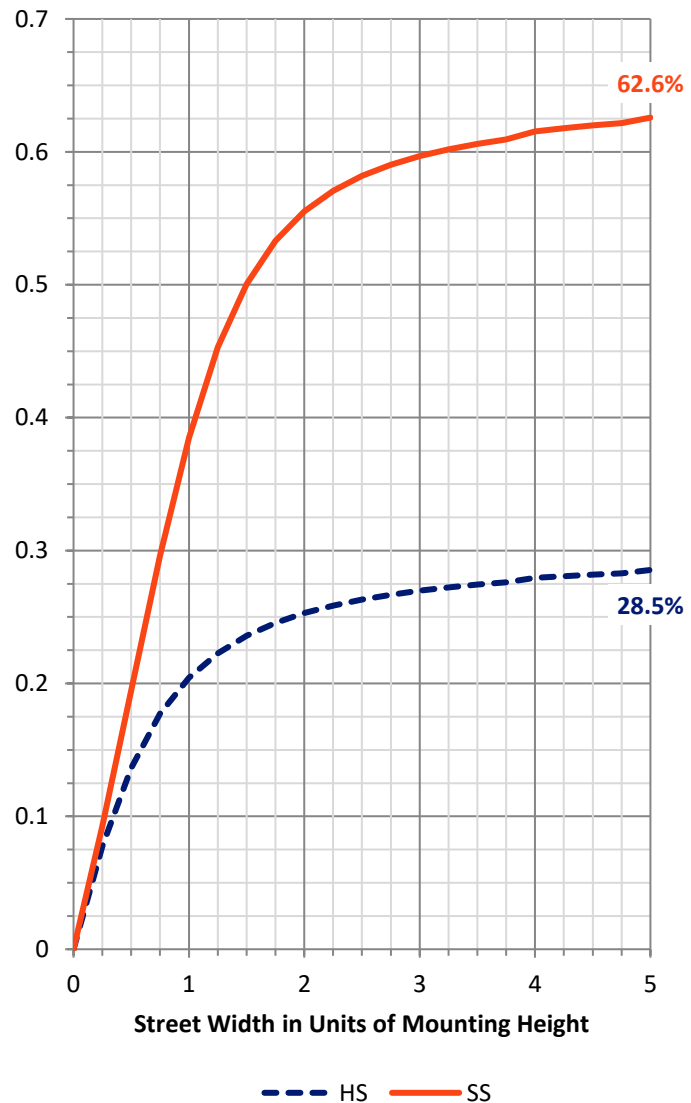
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1791.5	163.8	1955.3
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	3873.1	202.8	4075.9
	% Fixture	64.2	3.4	67.6
Total	Lumens	5664.6	366.6	6031.2
	% Fixture	93.9	6.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.4
10°-20°	102.7	1.7
20°-30°	268.7	4.5
30°-40°	557.8	9.2
40°-50°	939.6	15.6
50°-60°	1235.0	20.5
60°-70°	1222.9	20.3
70°-80°	870.6	14.4
80°-90°	443.1	7.3
90°-100°	192.8	3.2
100°-110°	88.2	1.5
110°-120°	44.8	0.7
120°-130°	23.9	0.4
130°-140°	11.9	0.2
140°-150°	4.2	0.1
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5664.6	93.9
0°-180°	6031.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266154

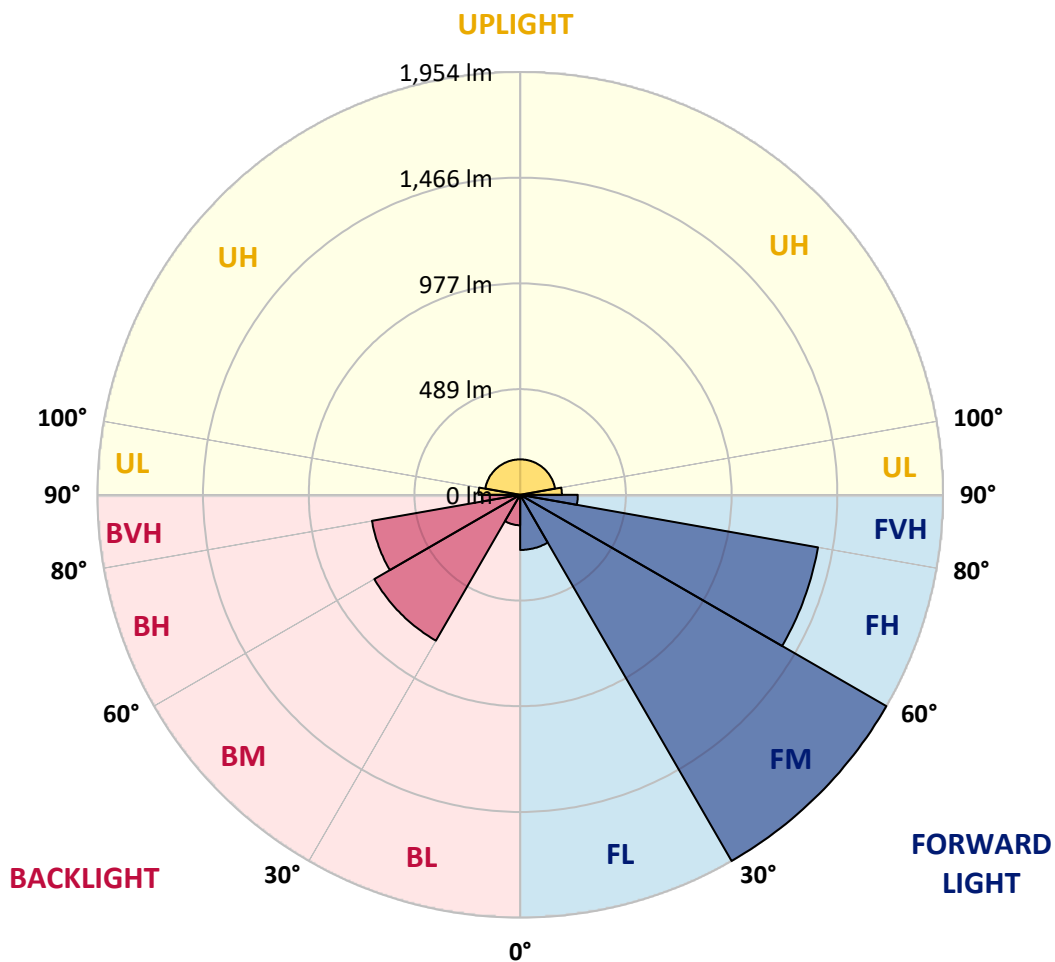
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.9	4.2			
FM (30°-60°)	1954.3	32.4			
FH (60°-80°)	1397.8	23.2			G1/1800
FVH (80°-90°)	266.1	4.4			G3/500
BL (0°-30°)	140.6	2.3	B1/500		
BM (30°-60°)	778.3	12.9	B1/1000		
BH (60°-80°)	695.7	11.5	B2/1000		G2/1000
BVH (80°-90°)	177.0	2.9			G2/225
UL (90°-100°)	192.8	3.2		U3/500	
UH (100°-180°)	163.8	2.7		U3/500	

BUG Rating: B2-U3-G3

Type II Short





REPORT NUMBER: P266154

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	250.4	251.2	251.2	249.6	248.3	245.3	242.5	238.8	233.6	233.0	229.3
5°	280.4	281.0	280.4	277.3	274.5	269.4	263.6	257.1	248.3	247.6	240.9
7.5°	316.7	317.5	316.7	311.6	306.5	299.2	291.2	281.8	269.4	267.2	258.5
10°	361.8	363.4	361.1	356.7	348.1	337.1	327.0	313.1	299.9	294.9	284.0
12.5°	419.4	419.4	414.9	408.5	397.5	383.7	370.6	353.8	339.3	332.1	320.3
15°	483.5	484.1	478.3	470.4	458.8	437.6	423.0	405.6	387.3	380.8	364.1
17.5°	556.9	558.4	551.2	539.5	523.5	502.4	484.1	463.7	442.7	431.7	414.3
20°	642.8	642.8	634.9	619.7	599.2	576.0	552.6	529.3	506.0	492.9	474.8
22.5°	740.5	740.5	731.0	710.6	681.5	656.0	630.5	604.3	578.9	565.0	541.7
25°	853.3	857.7	839.5	814.0	781.3	745.6	720.1	689.4	661.8	646.5	621.1
27.5°	980.7	982.9	960.4	922.5	880.2	843.1	814.8	787.0	756.6	740.5	709.9
30°	1117.6	1113.3	1092.9	1047.8	992.4	947.3	918.8	893.4	858.4	846.1	812.5
32.5°	1264.8	1261.8	1235.6	1173.6	1114.0	1059.5	1028.7	1012.7	977.8	964.1	928.3
35°	1419.9	1414.7	1383.4	1318.6	1239.9	1180.3	1152.5	1144.6	1112.6	1098.6	1055.8
37.5°	1582.2	1570.4	1531.3	1448.8	1367.4	1304.0	1291.7	1279.9	1258.9	1244.3	1193.4
40°	1711.7	1706.7	1667.3	1581.5	1493.3	1440.2	1432.2	1440.2	1419.9	1403.1	1344.0
42.5°	1816.6	1813.0	1781.7	1697.2	1609.0	1560.3	1569.0	1595.3	1588.7	1571.9	1506.5
45°	1889.4	1885.7	1863.2	1790.4	1709.6	1673.9	1713.2	1761.2	1765.6	1751.8	1674.6
47.5°	1914.8	1912.8	1900.4	1847.2	1785.3	1776.6	1854.5	1930.2	1948.3	1936.7	1849.4
50°	1882.0	1883.6	1888.0	1864.0	1826.1	1850.8	1965.9	2091.1	2130.4	2117.2	2024.2
52.5°	1797.7	1802.8	1823.9	1832.0	1826.1	1889.4	2059.1	2236.7	2303.8	2289.2	2193.0
55°	1668.1	1675.3	1712.4	1754.0	1783.9	1886.5	2117.2	2359.8	2455.8	2445.6	2346.0
57.5°	1497.7	1512.2	1562.5	1636.1	1696.4	1841.3	2134.1	2444.2	2580.4	2573.0	2476.3
60°	1309.1	1321.4	1390.7	1486.8	1574.1	1753.2	2097.6	2480.6	2664.8	2667.0	2575.4
62.5°	1122.1	1135.8	1217.4	1317.2	1428.6	1626.7	2010.9	2458.8	2699.8	2710.6	2631.3
63°	1085.6	1099.4	1181.0	1282.9	1397.9	1598.2	1987.7	2446.4	2699.8	2712.2	2635.0
65°	944.4	957.5	1038.4	1144.6	1266.2	1474.4	1874.9	2373.6	2670.7	2689.5	2629.2
67.5°	779.8	793.7	875.2	980.1	1097.2	1299.7	1697.2	2223.7	2570.9	2605.2	2566.5
70°	640.8	655.3	729.6	828.5	937.8	1122.1	1494.1	2021.9	2410.7	2447.8	2433.2
72.5°	527.8	540.2	613.1	696.0	793.7	957.5	1285.8	1778.7	2181.4	2226.4	2235.3
75°	431.0	444.1	508.3	582.6	668.3	806.0	1084.2	1521.6	1897.4	1960.0	1984.7
77.5°	351.6	364.1	420.9	485.7	558.4	671.4	898.5	1266.9	1606.2	1681.8	1714.0
80°	286.9	298.5	345.0	404.1	466.0	556.9	736.2	1020.7	1317.9	1386.3	1419.9
82.5°	233.0	243.3	284.0	335.6	388.1	461.5	600.6	816.9	1052.9	1110.3	1128.5
85°	187.8	196.5	233.0	278.1	322.5	379.4	485.7	645.8	823.4	868.7	891.2
87.5°	149.9	157.3	190.0	229.3	267.2	318.9	393.2	514.8	637.1	670.6	685.1
90°	121.6	127.4	154.4	187.8	222.2	259.9	318.9	400.5	490.0	514.0	524.3
92.5°	99.1	103.3	127.4	155.0	185.7	219.8	259.9	316.7	377.2	393.2	399.7
95°	83.1	84.5	105.6	129.5	154.4	183.4	212.5	252.0	291.2	302.2	305.1
97.5°	67.7	69.9	88.2	110.0	131.1	152.9	174.0	201.7	226.5	233.0	233.6
100°	58.2	59.0	74.3	94.0	112.1	129.5	144.8	161.7	176.2	178.4	179.8
102.5°	49.4	50.2	63.3	81.6	96.8	111.4	123.1	132.5	138.2	139.1	139.1
105°	42.9	43.7	54.5	70.6	84.5	95.4	104.8	108.4	110.0	109.2	109.2
107.5°	38.5	38.5	48.1	62.0	74.3	83.7	89.6	90.3	88.2	86.6	86.6



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CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	34.2	34.9	42.2	55.3	66.3	73.5	78.0	75.7	71.3	69.9	69.9
112.5°	31.4	32.0	37.1	48.8	58.2	65.5	67.7	64.0	58.2	56.9	57.5
115°	29.1	29.1	33.4	42.9	52.5	58.2	59.0	54.5	48.1	47.3	48.1
117.5°	26.9	26.9	29.9	38.5	46.6	51.7	51.7	46.6	40.8	39.3	40.1
120°	25.5	25.5	27.7	34.2	41.5	45.9	45.2	40.1	34.2	34.2	34.9
122.5°	24.1	24.1	25.5	30.6	37.1	40.8	40.1	34.2	29.1	29.1	29.9
125°	22.5	22.5	23.3	27.7	32.8	35.7	34.9	29.1	25.5	25.5	26.2
127.5°	21.1	21.1	21.9	24.8	29.1	31.4	29.9	24.8	22.5	22.5	23.3
130°	20.4	20.4	20.4	21.9	25.5	27.7	25.5	21.1	19.7	19.7	20.4
132.5°	19.0	19.0	19.0	19.7	21.9	23.3	21.9	18.1	17.4	17.4	18.1
135°	18.1	18.1	17.4	17.4	19.0	19.7	17.4	15.4	15.4	15.4	16.0
137.5°	16.8	16.8	16.0	15.4	16.0	16.0	14.6	12.3	13.1	13.1	13.8
140°	15.4	15.4	14.6	13.1	12.3	12.3	10.9	10.2	10.9	10.9	11.7
142.5°	13.1	13.1	12.3	10.9	9.4	8.8	8.1	8.1	8.8	8.8	9.4
145°	10.9	10.9	10.2	8.8	7.2	6.6	5.7	5.7	6.6	6.6	7.2
147.5°	8.8	8.8	8.1	6.6	5.1	3.7	3.7	4.4	5.1	5.1	5.1
150°	7.2	7.2	6.6	5.1	3.0	2.2	1.4	2.2	3.0	3.0	3.0
152.5°	5.1	5.1	4.4	3.0	2.2	0.7	0.7	1.4	2.2	2.2	2.2
155°	3.0	3.0	2.2	1.4	0.7	0.7	0.7	0.7	1.4	1.4	1.4
157.5°	1.4	1.4	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	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°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	227.9	226.5	222.8	219.1	216.2	214.1	212.5	210.5	209.7	208.9	208.9
5°	237.3	233.6	227.2	220.7	214.8	209.7	205.4	201.7	199.6	198.0	198.7
7.5°	252.7	246.9	237.3	227.2	217.7	210.5	203.8	199.6	195.9	193.7	193.7
10°	276.7	268.7	254.1	239.6	227.9	217.0	208.9	202.4	198.0	195.9	195.9
12.5°	311.0	300.8	280.4	259.9	243.9	229.3	219.1	212.5	211.1	208.9	208.9
15°	351.6	339.3	314.5	288.4	266.4	246.9	238.1	232.2	228.6	225.7	225.7
17.5°	399.7	383.7	352.3	320.3	293.4	273.1	258.5	250.4	246.0	243.9	243.9
20°	455.0	435.4	396.8	356.7	323.3	301.4	281.8	269.4	265.0	262.8	262.1
22.5°	519.1	495.1	448.6	398.3	359.0	329.9	306.5	288.4	283.2	281.0	279.6
25°	595.5	568.6	506.7	445.6	396.8	356.7	328.4	307.9	300.8	298.5	297.8
27.5°	681.5	648.8	572.9	498.0	432.4	380.8	347.4	326.2	316.7	313.8	314.5
30°	777.7	739.0	645.8	551.2	467.5	402.6	362.6	340.0	329.9	327.0	327.0
32.5°	884.7	833.6	725.2	607.3	500.1	420.9	375.8	352.3	340.0	337.9	337.9
35°	1002.6	949.4	811.1	664.0	529.3	435.4	385.2	361.8	348.7	345.8	345.8
37.5°	1138.1	1068.2	902.1	718.6	554.1	446.3	391.8	367.6	354.7	350.2	350.2
40°	1275.7	1194.7	996.8	770.3	575.2	452.8	395.3	370.6	358.2	352.3	351.6
42.5°	1426.2	1325.1	1093.5	817.6	589.7	456.5	396.2	372.7	359.7	352.3	351.0
45°	1582.9	1473.7	1183.2	858.4	600.6	456.5	395.3	372.1	359.7	350.2	348.7
47.5°	1740.8	1617.0	1276.3	892.6	605.7	454.4	393.8	371.3	359.0	347.4	345.8
50°	1905.5	1760.6	1364.4	919.5	605.1	450.1	390.3	369.2	356.1	343.6	342.3
52.5°	2059.8	1892.3	1445.3	938.5	600.6	443.5	385.9	367.0	353.8	340.0	338.7
55°	2209.8	2024.8	1515.3	948.7	591.3	435.4	381.5	364.1	351.6	336.3	335.6
57.5°	2330.7	2136.2	1569.8	948.0	577.4	425.2	376.4	360.4	348.7	334.2	332.7
60°	2429.6	2225.8	1604.7	937.0	560.6	414.9	370.6	356.1	345.8	331.3	329.0
62.5°	2487.9	2276.0	1613.4	913.8	540.2	403.3	362.6	349.5	340.7	327.6	325.5
63°	2494.5	2280.3	1611.3	907.9	535.8	400.5	361.1	348.7	340.0	327.0	324.7
65°	2492.3	2278.9	1590.2	878.2	517.0	388.7	353.8	342.3	334.9	322.5	320.3
67.5°	2435.5	2223.7	1530.4	828.5	489.2	373.5	342.3	332.7	325.5	314.5	312.3
70°	2312.4	2105.6	1430.0	766.7	458.8	356.1	327.6	320.3	313.1	302.9	299.9
72.5°	2130.4	1931.6	1295.3	700.4	426.6	335.6	311.6	304.3	298.5	289.8	284.8
75°	1893.1	1711.0	1139.5	626.2	391.8	314.5	291.9	286.1	278.8	270.8	266.4
77.5°	1617.0	1459.0	974.9	549.8	356.1	290.5	270.8	264.3	257.8	249.0	243.3
80°	1338.3	1205.7	811.8	475.5	320.3	265.0	247.6	241.7	233.6	224.2	218.4
82.5°	1073.3	969.8	664.0	407.0	285.4	239.6	223.5	216.2	207.5	198.0	194.5
85°	837.9	762.3	535.1	345.0	251.2	214.1	199.6	192.1	181.3	170.4	165.9
87.5°	646.5	591.3	429.6	290.5	219.8	189.4	174.7	165.9	155.9	144.8	141.3
90°	495.9	458.0	343.6	244.7	191.5	164.6	152.9	144.8	133.3	122.3	119.5
92.5°	380.1	354.7	276.0	206.0	163.9	144.2	133.9	125.3	113.5	102.6	100.5
95°	291.9	275.2	222.8	172.6	142.0	125.9	117.1	107.7	96.1	85.9	83.7
97.5°	226.5	214.8	179.8	145.6	123.1	110.0	102.6	93.2	81.6	72.0	70.6
100°	175.4	168.3	146.3	122.3	107.0	96.1	88.8	80.8	69.9	59.6	59.6
102.5°	136.9	132.5	120.2	104.8	93.2	85.2	78.6	69.9	59.0	50.9	50.2
105°	108.4	106.3	99.1	89.6	81.6	75.0	69.2	60.5	50.2	42.9	42.9
107.5°	86.6	85.9	82.3	76.4	71.3	66.3	61.2	52.5	42.9	37.1	37.1



REPORT NUMBER: P266154

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	70.6	70.6	69.2	65.5	62.6	58.2	53.2	45.9	36.4	32.0	32.0
112.5°	58.2	59.0	58.2	56.9	55.3	51.7	47.3	39.3	31.4	28.3	28.3
115°	48.8	49.4	49.4	49.4	48.8	45.9	41.5	34.2	26.9	24.8	24.8
117.5°	41.5	42.2	42.9	42.9	42.2	40.1	36.4	29.9	23.3	21.9	22.5
120°	35.7	36.4	37.1	37.9	37.1	35.7	31.4	25.5	20.4	19.7	19.7
122.5°	31.4	32.0	32.0	32.8	32.8	31.4	27.7	21.9	17.4	17.4	17.4
125°	26.9	27.7	28.3	28.3	29.1	26.9	23.3	18.1	15.4	15.4	16.0
127.5°	24.1	24.1	24.1	24.8	24.8	23.3	20.4	15.4	13.1	13.8	13.8
130°	21.1	21.1	21.9	21.9	21.9	20.4	16.8	13.1	11.7	12.3	12.3
132.5°	18.1	19.0	19.0	18.1	18.1	17.4	13.8	10.9	10.2	10.9	10.9
135°	16.0	16.8	16.8	15.4	15.4	13.8	11.7	8.8	9.4	9.4	10.2
137.5°	13.8	14.6	13.8	13.1	12.3	11.7	9.4	7.2	8.1	8.8	8.8
140°	11.7	11.7	11.7	10.9	10.2	8.8	7.2	5.7	7.2	7.2	7.2
142.5°	9.4	9.4	9.4	8.8	7.2	6.6	5.1	5.1	5.7	5.7	5.7
145°	7.2	7.2	7.2	6.6	5.1	4.4	3.7	3.7	4.4	5.1	5.1
147.5°	5.1	5.1	5.1	4.4	3.0	2.2	2.2	3.0	3.7	3.7	3.7
150°	3.7	3.7	3.7	3.0	2.2	1.4	1.4	2.2	2.2	3.0	3.0
152.5°	2.2	3.0	3.0	2.2	1.4	0.7	0.7	1.4	1.4	1.4	1.4
155°	1.4	1.4	2.2	1.4	1.4	0.7	0.0	0.0	0.7	0.7	0.7
157.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	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)