

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: P266233

Luminaire Tested: **LXF.LXT-AF24-100-D-U-SL3-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
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-SL3-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6943 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

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

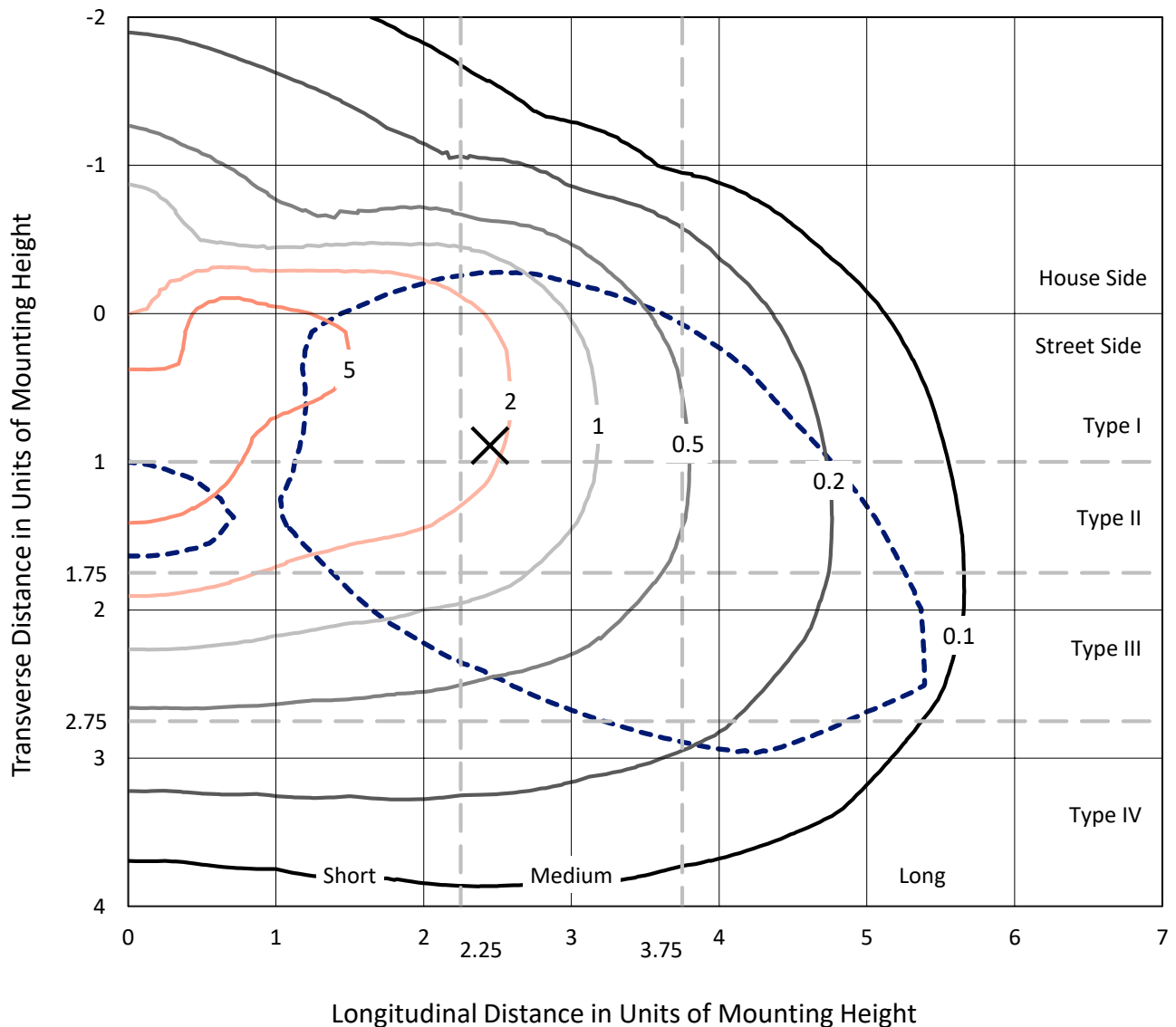


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

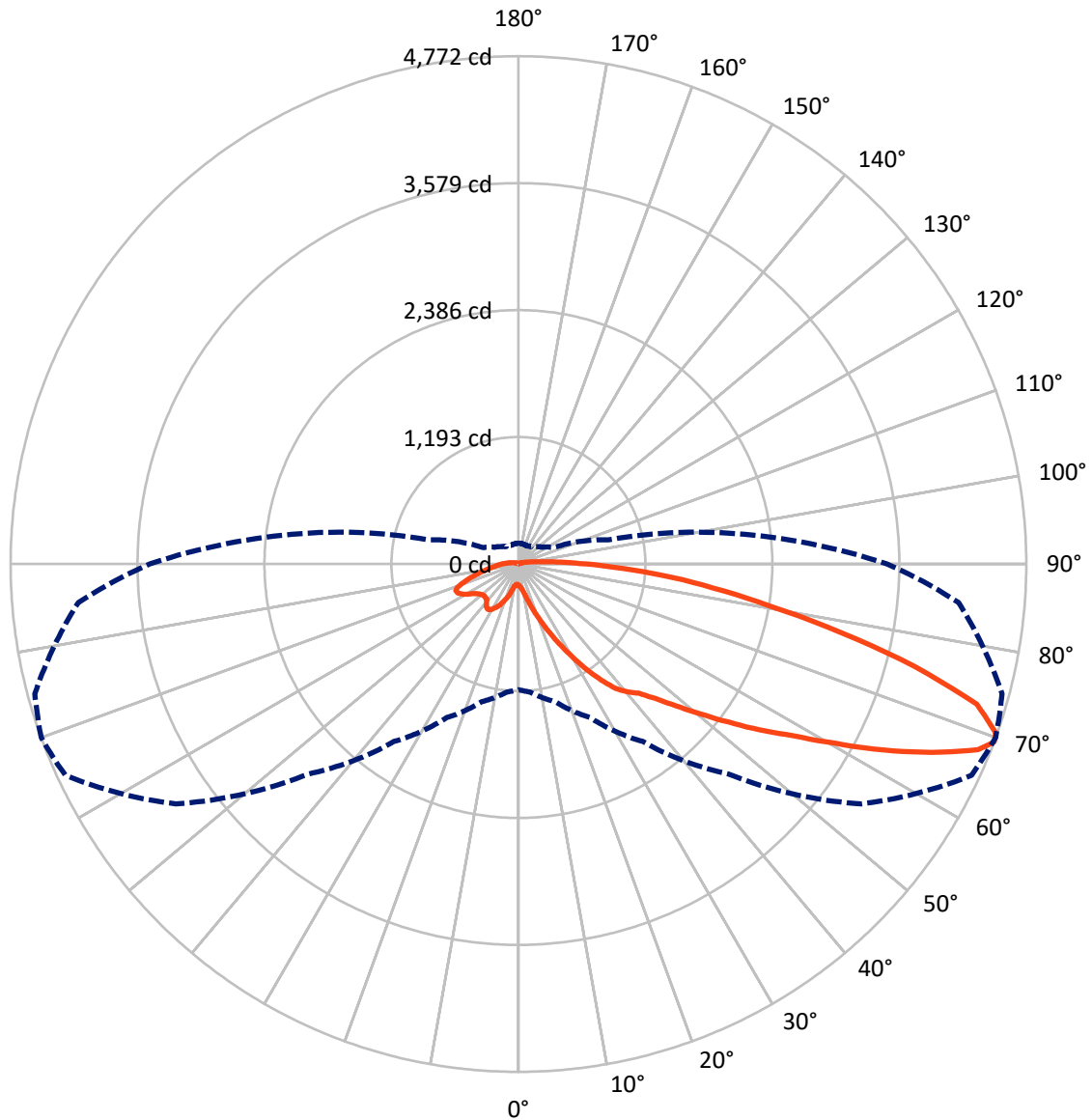


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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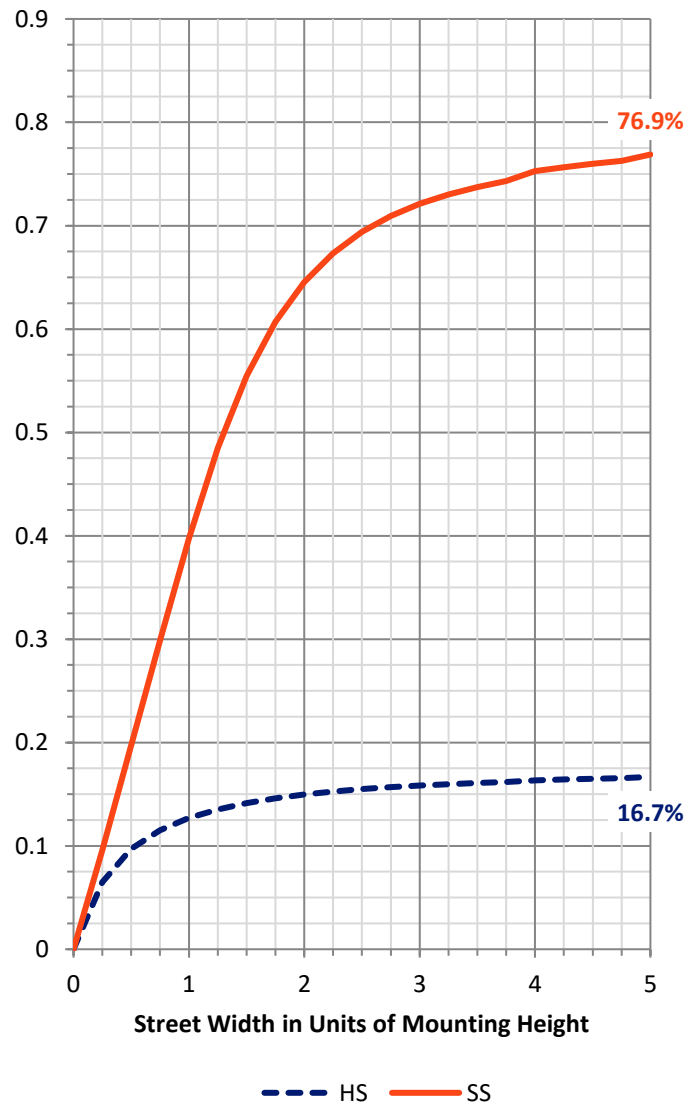
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1207.7	95.3	1303.0
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	5482.9	157.1	5640.0
	% Fixture	79.0	2.3	81.2
Total	Lumens	6690.6	252.4	6943.0
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	0.3
10°-20°	89.2	1.3
20°-30°	248.0	3.6
30°-40°	524.0	7.5
40°-50°	879.1	12.7
50°-60°	1325.4	19.1
60°-70°	1724.6	24.8
70°-80°	1348.6	19.4
80°-90°	531.2	7.7
90°-100°	157.5	2.3
100°-110°	51.6	0.7
110°-120°	22.1	0.3
120°-130°	12.0	0.2
130°-140°	6.4	0.1
140°-150°	2.2	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6690.6	96.4
0°-180°	6943.0	100.0

Coefficient of Utilization



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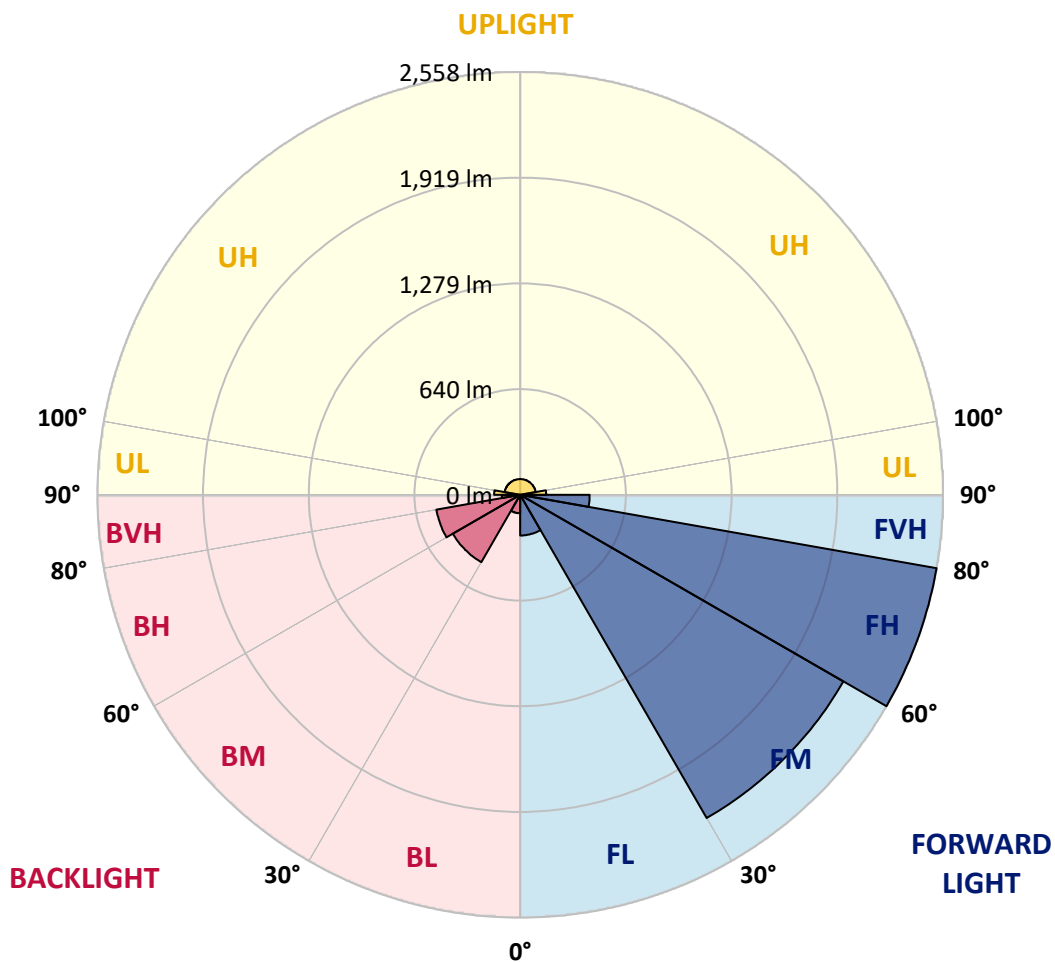
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.1	3.5			
FM	(30°-60°)	2258.1	32.5			
FH	(60°-80°)	2558.5	36.8			G2/5000
FVH	(80°-90°)	420.3	6.1			G3/500
BL	(0°-30°)	111.6	1.6	B1/500		
BM	(30°-60°)	470.4	6.8	B1/1000		
BH	(60°-80°)	514.7	7.4	B2/1000		G2/1000
BVH	(80°-90°)	111.0	1.6			G2/225
UL	(90°-100°)	157.5	2.3		U3/500	
UH	(100°-180°)	95.3	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	221.5	221.5	222.4	221.5	220.7	217.2	213.7	209.3	207.7	205.9	201.6
5°	246.8	246.8	245.9	244.1	242.5	236.3	231.1	224.1	220.7	217.2	209.3
7.5°	277.1	276.3	275.4	271.9	268.5	260.7	252.9	244.1	238.9	234.5	224.1
10°	313.7	312.8	311.9	305.9	300.7	291.9	284.1	272.8	268.5	262.3	247.7
12.5°	360.6	363.2	358.0	348.5	341.4	329.3	324.1	316.3	311.1	308.5	292.8
15°	419.7	421.3	414.5	398.8	389.2	377.1	378.8	379.7	377.1	377.1	358.0
17.5°	490.8	487.4	482.2	459.7	444.8	439.6	447.4	455.4	457.0	459.7	439.6
20°	580.3	582.1	566.6	533.5	510.0	511.8	521.2	536.1	543.0	549.1	528.3
22.5°	702.8	689.0	670.8	623.9	591.7	584.7	599.4	628.2	639.5	655.1	635.1
25°	834.0	820.2	788.1	734.2	685.4	664.7	689.0	738.4	757.6	783.7	766.3
27.5°	973.9	962.7	914.0	856.7	790.7	754.1	786.2	853.2	883.7	916.6	897.4
30°	1124.3	1111.3	1053.9	986.1	902.6	856.7	881.9	978.3	1028.6	1073.8	1065.2
32.5°	1303.3	1285.8	1215.4	1129.4	1019.9	965.3	992.2	1123.4	1186.8	1245.1	1232.8
35°	1503.0	1494.4	1400.5	1291.0	1156.4	1079.0	1116.5	1259.0	1338.8	1400.5	1384.1
37.5°	1732.4	1722.1	1615.2	1470.0	1298.9	1201.7	1229.4	1389.3	1482.3	1547.4	1510.9
40°	1946.2	1935.8	1829.8	1659.4	1447.4	1330.2	1353.7	1496.1	1580.4	1633.4	1566.6
42.5°	2174.6	2154.7	2036.5	1840.2	1605.6	1466.7	1461.4	1577.9	1658.6	1727.3	1657.7
45°	2376.2	2371.0	2244.1	2019.2	1764.6	1600.4	1566.6	1696.0	1801.9	1894.0	1822.8
47.5°	2503.0	2496.1	2403.1	2179.0	1903.6	1730.8	1706.4	1864.5	1988.8	2088.6	2006.2
50°	2570.9	2568.3	2502.1	2300.6	2042.7	1874.0	1891.4	2070.5	2210.3	2335.5	2246.8
52.5°	2600.5	2600.5	2549.1	2387.5	2166.1	2038.3	2103.4	2308.5	2465.8	2600.5	2482.2
55°	2596.9	2597.8	2544.8	2408.4	2264.2	2210.3	2344.9	2590.0	2749.0	2894.1	2755.9
57.5°	2487.4	2494.5	2483.2	2394.5	2317.2	2384.9	2623.1	2892.4	3041.8	3179.0	3024.5
60°	2224.3	2242.4	2282.5	2299.8	2329.3	2550.8	2912.3	3233.8	3418.8	3586.6	3459.6
62.5°	1969.7	1985.3	2040.9	2116.4	2296.2	2676.9	3233.8	3702.1	3849.7	4010.6	3775.0
65°	1660.3	1684.6	1793.2	1936.7	2216.4	2765.5	3588.3	4140.8	4267.7	4345.0	4053.2
67.5°	1349.3	1371.9	1502.1	1730.8	2112.2	2816.7	3849.7	4531.8	4657.0	4664.8	4231.1
69°	1180.7	1206.0	1339.7	1591.6	2034.8	2789.0	3929.7	4696.9	4771.5	4703.9	4151.2
70°	1090.5	1090.5	1238.9	1496.1	1967.0	2737.7	3942.8	4709.1	4757.8	4657.8	4066.9
72.5°	790.7	799.3	954.9	1254.7	1750.6	2530.9	3724.6	4475.4	4503.2	4234.7	3504.0
75°	542.1	550.8	688.1	974.8	1471.0	2202.5	3285.9	3870.6	3846.4	3550.9	2833.3
77.5°	375.3	381.4	485.7	710.6	1163.3	1822.8	2738.6	3164.3	3104.4	2828.0	2119.9
80°	263.3	269.3	349.4	528.3	882.8	1434.5	2171.3	2478.8	2391.8	2146.1	1556.9
82.5°	185.1	190.4	256.2	399.7	669.0	1116.5	1712.4	1927.9	1842.0	1623.9	1113.0
85°	132.1	135.6	185.9	304.0	512.7	832.3	1299.8	1444.8	1357.1	1155.5	739.3
87.5°	95.6	99.1	137.4	229.3	397.1	647.3	960.9	1022.6	900.1	731.6	467.4
90°	72.1	74.6	103.3	172.0	309.2	475.3	688.1	666.5	576.9	461.4	311.9
92.5°	53.9	55.7	79.1	130.3	237.2	369.3	477.9	434.4	359.7	291.9	212.9
95°	40.0	41.7	59.9	98.2	175.4	265.0	311.9	268.5	224.1	185.1	145.0
97.5°	30.5	32.2	46.9	74.6	126.8	186.8	201.6	171.1	148.6	126.8	103.3
100°	24.3	25.2	36.6	57.3	91.2	127.6	139.0	119.0	104.3	93.0	78.2
102.5°	19.1	20.8	29.6	45.2	69.4	94.7	100.8	86.9	77.3	69.4	61.8
105°	16.4	17.3	24.3	36.6	54.7	71.2	76.4	65.1	57.3	52.1	47.8
107.5°	14.7	14.7	20.8	30.5	44.2	56.5	59.1	48.7	42.6	39.0	36.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	13.0	13.0	18.2	26.1	37.4	46.9	46.1	36.6	32.2	28.7	28.7
112.5°	12.1	12.1	15.6	23.4	32.2	39.0	36.6	28.7	25.2	21.6	23.4
115°	11.3	11.3	14.7	20.8	28.7	33.0	30.5	22.5	19.1	17.3	19.1
117.5°	11.3	11.3	14.0	19.1	26.1	28.7	26.1	19.1	15.6	14.7	16.4
120°	11.3	11.3	14.0	18.2	23.4	25.2	21.6	15.6	14.0	12.1	14.7
122.5°	11.3	11.3	13.0	17.3	21.6	22.5	19.1	14.0	11.3	11.3	13.0
125°	12.1	12.1	14.0	17.3	20.0	20.0	16.4	12.1	10.4	10.4	13.0
127.5°	13.0	13.0	14.0	16.4	18.2	17.3	14.7	11.3	10.4	10.4	12.1
130°	14.0	14.0	14.7	15.6	16.4	14.7	12.1	10.4	9.5	10.4	12.1
132.5°	14.0	14.0	14.0	14.7	14.7	13.0	10.4	8.8	8.8	9.5	11.3
135°	13.0	13.0	13.0	13.0	13.0	10.4	8.8	7.8	7.8	8.8	10.4
137.5°	11.3	11.3	10.4	10.4	10.4	8.8	6.9	6.1	6.1	6.9	8.8
140°	8.8	8.8	8.8	8.8	8.8	6.9	5.2	4.3	5.2	6.1	6.9
142.5°	6.9	6.9	6.9	6.9	6.9	5.2	3.5	4.3	5.2	5.2	6.1
145°	6.1	5.2	5.2	5.2	5.2	3.5	2.6	3.5	4.3	5.2	5.2
147.5°	4.3	4.3	4.3	4.3	3.5	1.7	1.7	3.5	3.5	4.3	5.2
150°	2.6	2.6	2.6	2.6	1.7	0.9	1.7	2.6	3.5	3.5	4.3
152.5°	0.9	0.9	1.7	1.7	0.9	0.0	0.9	1.7	2.6	2.6	3.5
155°	0.0	0.0	0.9	1.7	0.0	0.0	0.9	1.7	1.7	2.6	2.6
157.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	1.7	1.7	2.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	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°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	199.0	197.2	193.8	191.1	187.7	185.1	185.1	182.4	182.4	181.5	180.6
5°	205.9	203.2	194.7	188.6	182.4	177.2	173.7	171.1	168.5	166.8	165.9
7.5°	218.9	212.9	200.7	190.4	179.8	172.0	165.1	160.7	157.3	156.3	154.7
10°	240.7	233.6	214.5	197.2	181.5	168.5	159.9	153.8	150.2	149.5	148.6
12.5°	283.2	272.8	245.0	216.3	186.8	166.8	155.5	154.7	155.5	157.3	158.1
15°	344.9	333.6	291.1	245.9	200.7	169.4	163.3	165.1	167.7	170.3	170.3
17.5°	420.4	401.5	344.1	279.0	218.1	185.1	171.1	173.0	178.1	182.4	182.4
20°	504.8	474.3	393.5	303.2	234.5	195.6	179.0	179.8	187.7	192.9	193.8
22.5°	607.3	561.4	445.6	323.2	244.1	199.9	184.2	185.1	197.2	205.9	206.8
25°	722.9	662.9	505.7	344.9	247.7	198.0	186.8	192.9	212.0	226.7	227.6
27.5°	838.4	755.8	551.6	359.7	245.0	192.9	188.6	201.6	225.0	238.9	240.7
30°	987.9	884.6	602.9	365.8	236.3	187.7	188.6	205.1	225.0	238.9	239.8
32.5°	1136.4	995.7	644.7	370.1	226.7	183.3	185.9	200.7	219.8	235.4	236.3
35°	1262.4	1084.3	662.9	361.5	218.1	180.6	181.5	196.4	218.1	237.2	238.1
37.5°	1355.4	1141.7	661.2	340.5	207.7	178.1	179.0	195.6	219.8	240.7	243.4
40°	1386.7	1145.1	628.2	310.2	200.7	177.2	179.8	195.6	218.1	235.4	238.1
42.5°	1459.7	1175.5	605.5	283.2	195.6	179.0	182.4	192.9	209.3	226.0	229.3
45°	1590.0	1258.0	611.7	270.2	194.7	183.3	184.2	190.4	201.6	217.2	221.5
47.5°	1730.8	1342.3	614.4	263.3	199.0	187.7	186.8	187.7	193.8	206.8	211.1
50°	1925.2	1469.2	628.2	262.3	205.9	192.9	189.5	185.9	190.4	205.9	210.3
52.5°	2126.0	1603.8	650.7	267.5	216.3	199.9	192.9	186.8	190.4	204.2	210.3
55°	2350.1	1771.5	683.8	278.0	226.7	207.7	197.2	189.5	189.5	201.6	206.8
57.5°	2597.8	1944.4	727.2	291.9	238.1	216.3	200.7	190.4	188.6	196.4	200.7
60°	2982.7	2234.7	803.7	311.9	249.4	223.3	203.2	191.1	189.5	195.6	198.0
62.5°	3238.1	2436.3	869.6	332.0	259.8	229.3	204.2	191.1	191.1	194.7	196.4
65°	3480.6	2612.6	914.0	350.1	269.3	232.8	204.2	190.4	191.1	193.8	193.8
67.5°	3562.1	2656.8	916.6	363.2	275.4	232.8	202.5	189.5	192.0	194.7	193.8
69°	3464.0	2564.8	877.6	364.1	275.4	230.2	200.7	187.7	192.0	194.7	193.8
70°	3371.1	2485.7	844.4	360.6	272.8	227.6	198.0	186.8	191.1	193.8	192.9
72.5°	2847.2	2054.8	715.1	343.2	263.3	218.9	190.4	180.6	186.8	190.4	188.6
75°	2268.5	1619.6	583.0	312.8	246.8	205.1	179.8	171.1	178.1	181.5	179.0
77.5°	1690.7	1199.0	466.6	282.3	228.4	192.9	168.5	159.0	164.2	165.9	163.3
80°	1226.7	870.5	374.5	254.6	212.0	180.6	157.3	146.9	151.2	151.2	147.7
82.5°	867.1	618.7	302.4	226.7	194.7	170.3	147.7	136.5	142.6	141.7	138.2
85°	581.3	429.2	247.7	196.4	174.6	156.3	137.4	128.5	135.6	134.7	131.2
87.5°	385.0	306.7	207.7	170.3	152.9	139.0	125.1	119.0	126.0	124.2	120.0
90°	272.8	232.0	175.4	146.9	131.2	120.7	111.2	106.9	111.2	107.7	103.3
92.5°	196.4	173.7	144.2	123.3	109.5	102.5	96.5	93.0	95.6	90.4	86.9
95°	139.0	127.6	115.5	101.7	91.2	85.2	81.7	79.9	81.7	73.8	71.2
97.5°	101.7	96.5	91.2	84.4	75.5	72.1	69.4	67.7	67.7	59.9	58.2
100°	79.1	76.4	74.6	70.3	63.4	60.8	59.1	58.2	56.5	49.5	47.8
102.5°	63.4	62.5	62.5	58.2	53.0	51.3	49.5	48.7	46.9	40.9	39.0
105°	50.3	50.3	51.3	47.8	44.2	42.6	41.7	40.0	38.2	33.9	33.9
107.5°	40.0	40.0	41.7	39.0	37.4	35.7	34.8	33.0	31.4	28.7	28.7



REPORT NUMBER: P266233

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.4	32.2	34.8	33.0	31.4	30.5	29.6	26.9	25.2	24.3	24.3
112.5°	25.2	26.9	28.7	27.8	26.1	26.1	24.3	22.5	20.8	20.8	20.8
115°	21.6	22.5	24.3	23.4	22.5	21.6	20.8	18.2	17.3	17.3	18.2
117.5°	18.2	19.1	20.8	20.0	19.1	19.1	17.3	15.6	14.0	15.6	15.6
120°	15.6	16.4	17.3	17.3	16.4	16.4	14.7	13.0	11.3	13.0	13.0
122.5°	14.7	14.7	15.6	14.7	14.7	14.0	12.1	10.4	9.5	11.3	11.3
125°	14.0	14.0	14.0	13.0	13.0	12.1	10.4	8.8	7.8	9.5	9.5
127.5°	13.0	13.0	13.0	12.1	10.4	9.5	8.8	6.9	6.1	7.8	7.8
130°	13.0	13.0	11.3	10.4	9.5	7.8	6.9	5.2	5.2	6.9	6.9
132.5°	12.1	11.3	10.4	8.8	7.8	6.1	5.2	4.3	4.3	5.2	6.1
135°	10.4	10.4	8.8	6.9	6.1	4.3	4.3	2.6	3.5	4.3	4.3
137.5°	8.8	8.8	7.8	6.1	4.3	3.5	2.6	1.7	2.6	3.5	3.5
140°	7.8	6.9	6.1	5.2	3.5	1.7	1.7	0.9	1.7	1.7	2.6
142.5°	6.9	6.9	6.1	4.3	2.6	1.7	0.0	0.9	0.9	0.9	1.7
145°	6.1	6.1	5.2	3.5	2.6	0.9	0.0	0.9	0.9	0.9	0.0
147.5°	5.2	5.2	4.3	3.5	1.7	0.0	0.0	0.0	0.9	0.0	0.0
150°	4.3	4.3	3.5	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.6	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	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)