

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: P266254

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T4W-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-35)
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-T4W-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229.6 lumens
Efficiency: N/A
Efficacy: 75.3 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 - 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

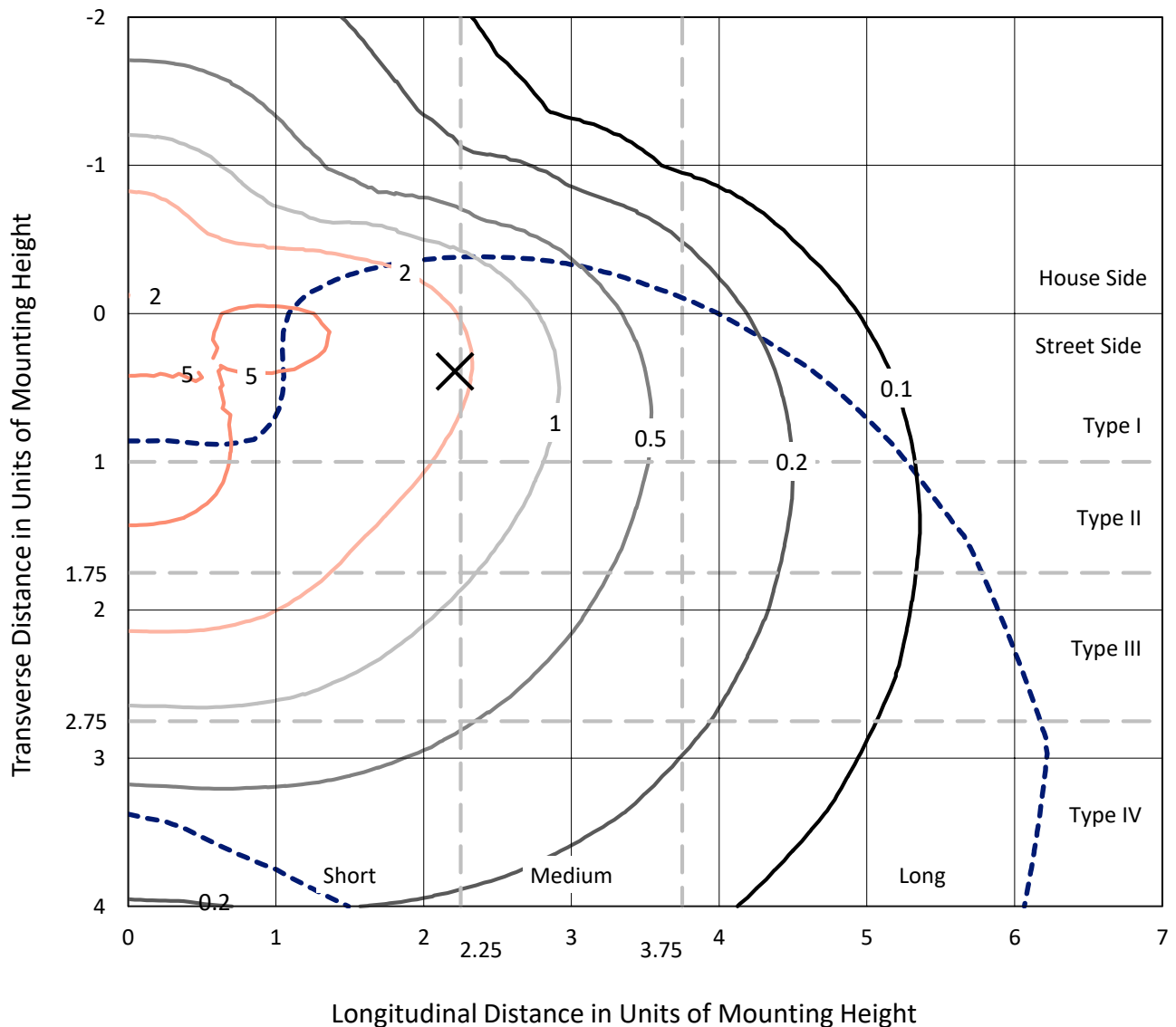


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

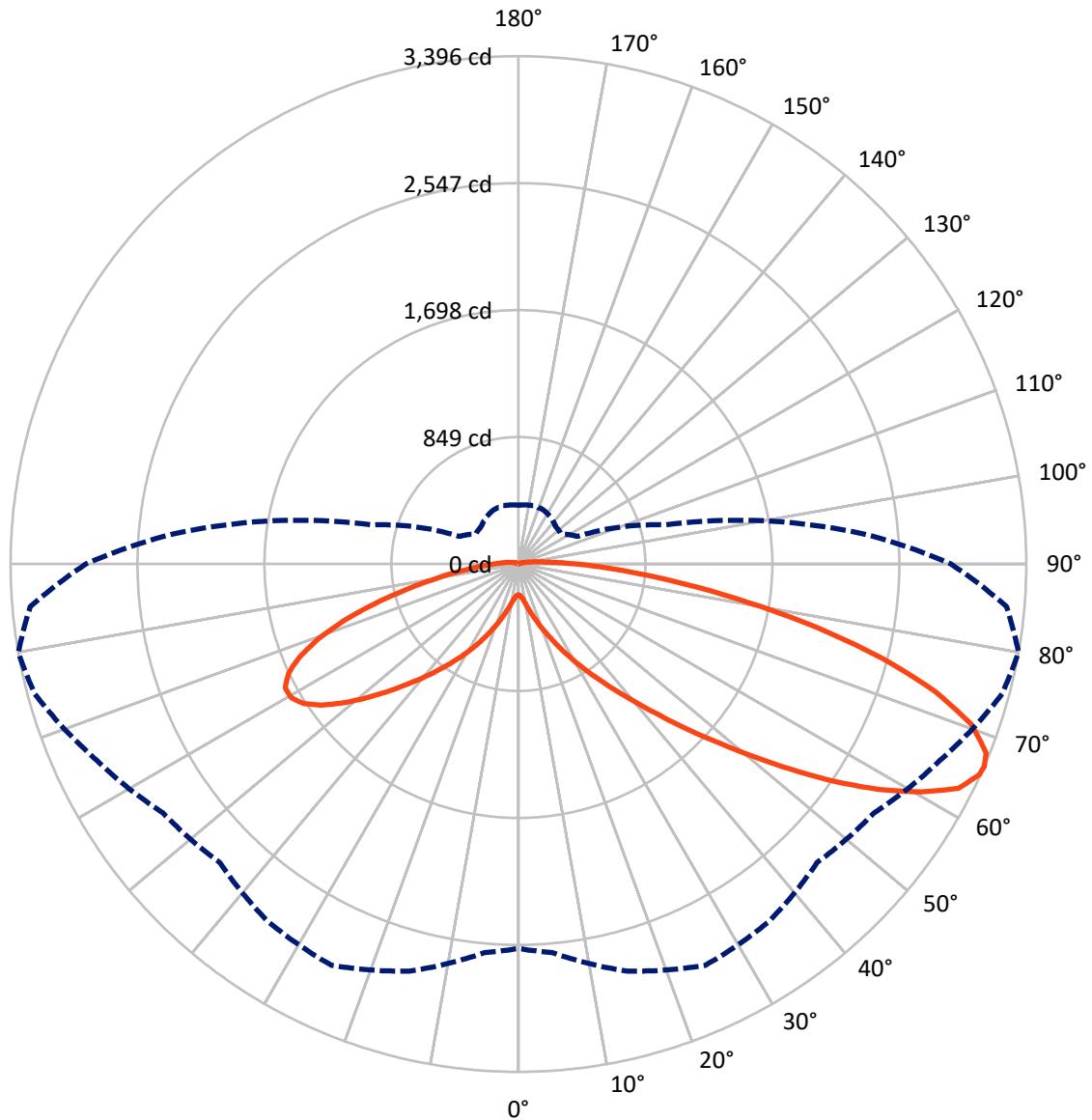


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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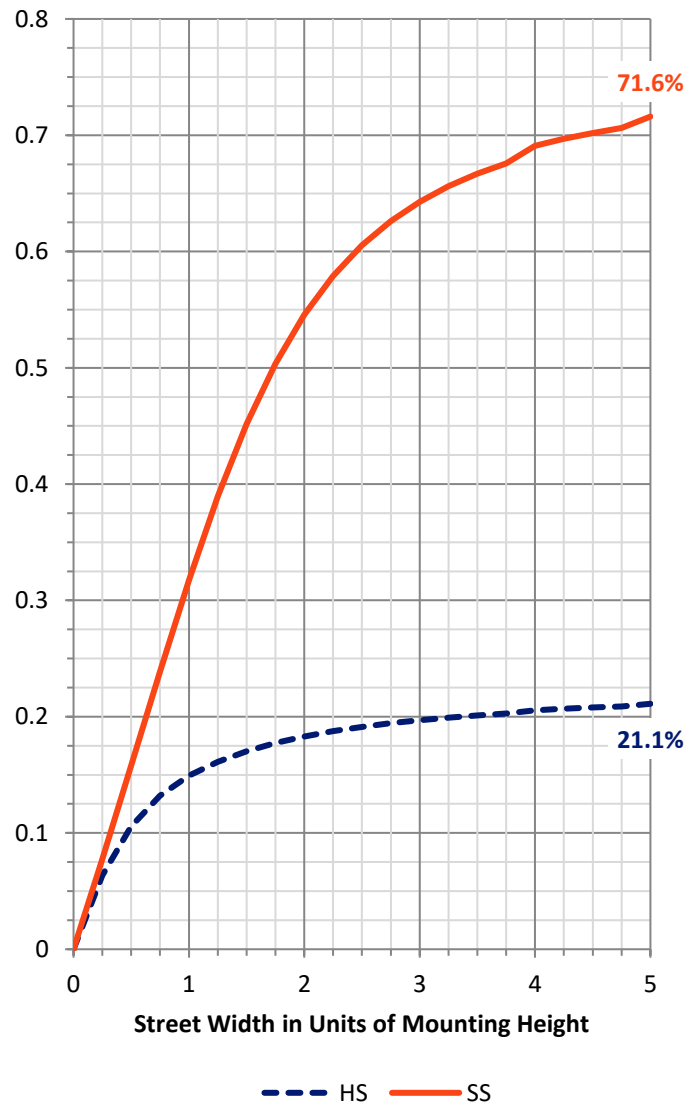
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.3	103.3	1706.6
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	5384.6	138.4	5523.0
	% Fixture	74.5	1.9	76.4
Total	Lumens	6987.8	241.8	7229.6
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.3
10°-20°	98.1	1.4
20°-30°	250.5	3.5
30°-40°	495.8	6.9
40°-50°	859.5	11.9
50°-60°	1370.5	19.0
60°-70°	1781.7	24.6
70°-80°	1473.6	20.4
80°-90°	635.8	8.8
90°-100°	165.8	2.3
100°-110°	48.8	0.7
110°-120°	18.2	0.3
120°-130°	6.3	0.1
130°-140°	2.0	0.0
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6987.8	96.7
0°-180°	7229.6	100.0



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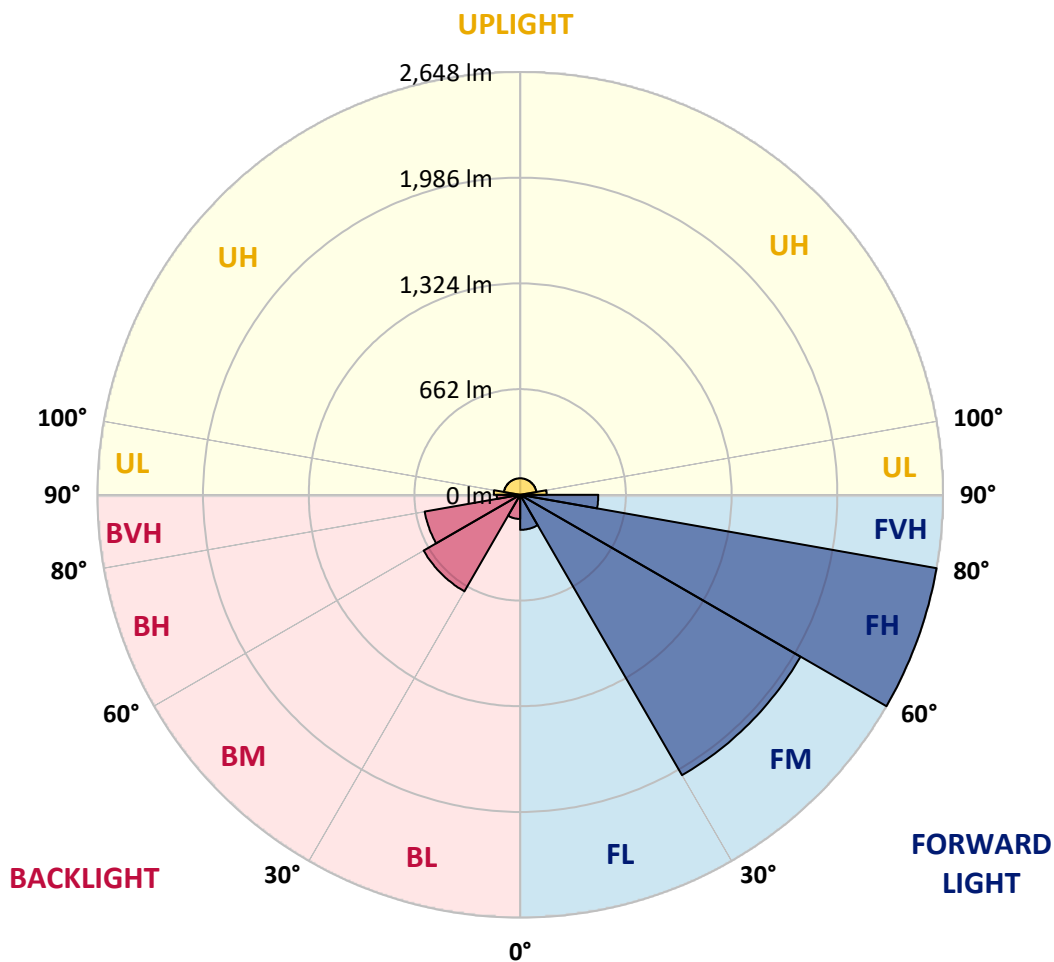
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.6	3.0			
FM (30°-60°)	2027.5	28.0			
FH (60°-80°)	2648.2	36.6			G2/5000
FVH (80°-90°)	489.3	6.8			G3/500
BL (0°-30°)	151.3	2.1	B1/500		
BM (30°-60°)	698.3	9.7	B1/1000		
BH (60°-80°)	607.2	8.4	B2/1000		G2/1000
BVH (80°-90°)	146.5	2.0			G2/225
UL (90°-100°)	165.8	2.3		U3/500	
UH (100°-180°)	103.3	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8
2.5°	221.5	220.8	221.5	221.5	220.8	219.8	217.2	215.5	212.9	211.1	210.3
5°	239.8	238.9	238.9	238.9	238.1	236.3	232.9	229.3	226.0	223.3	222.4
7.5°	265.9	263.3	263.3	262.5	260.7	258.1	253.7	250.3	246.8	242.5	240.7
10°	301.6	299.8	297.2	295.5	291.1	288.4	283.2	279.0	276.3	272.8	269.3
12.5°	344.1	346.7	344.9	338.0	332.8	328.4	321.5	318.9	316.3	311.9	309.3
15°	399.7	401.5	397.1	390.1	381.4	376.2	369.3	363.2	361.5	356.3	352.8
17.5°	463.0	466.6	459.7	449.2	438.0	425.7	420.5	414.5	411.9	406.7	403.2
20°	538.8	542.1	532.6	517.0	500.4	483.1	477.0	470.1	469.2	464.0	461.4
22.5°	627.3	629.9	615.2	592.6	569.2	546.4	536.9	530.0	530.9	526.5	525.7
25°	729.9	730.7	709.9	680.3	644.8	614.4	601.2	597.8	601.2	598.6	597.0
27.5°	845.5	844.5	825.5	779.4	725.6	683.8	668.2	669.1	676.9	678.6	678.6
30°	973.1	976.5	944.5	884.6	814.1	756.8	740.3	743.7	766.3	766.3	766.3
32.5°	1121.8	1120.8	1084.3	997.5	909.8	839.3	817.5	821.1	848.9	862.0	857.6
35°	1287.7	1286.0	1240.7	1129.4	1013.9	927.1	897.5	914.0	952.4	967.0	963.6
37.5°	1465.8	1465.8	1412.8	1276.4	1127.8	1022.7	990.6	1008.7	1062.7	1086.9	1074.0
40°	1648.3	1649.1	1586.5	1442.3	1257.3	1127.0	1090.5	1122.6	1198.2	1221.7	1212.9
42.5°	1830.7	1825.4	1767.2	1606.6	1396.2	1244.2	1200.0	1253.8	1345.9	1378.9	1366.7
45°	2014.9	2011.5	1958.5	1779.5	1548.3	1371.2	1325.0	1394.6	1514.5	1567.5	1555.2
47.5°	2193.0	2193.0	2143.5	1953.3	1713.3	1515.4	1473.6	1559.6	1711.7	1769.9	1772.4
50°	2360.7	2363.4	2320.7	2143.5	1881.9	1674.4	1637.8	1749.9	1948.1	2011.5	2015.7
52.5°	2517.1	2524.1	2496.3	2341.6	2070.6	1851.5	1825.4	1952.3	2184.4	2277.4	2288.6
55°	2656.2	2658.8	2655.3	2525.9	2264.3	2037.5	2028.8	2180.8	2465.8	2565.7	2565.7
57.5°	2753.5	2769.0	2801.3	2696.2	2465.8	2240.8	2239.0	2418.1	2723.9	2843.0	2835.9
60°	2797.9	2815.2	2896.9	2848.2	2652.7	2444.9	2463.2	2665.7	2998.5	3094.0	3088.0
62.5°	2770.0	2792.6	2925.5	2949.9	2801.3	2635.3	2670.0	2888.1	3191.4	3303.4	3235.7
65°	2641.3	2674.4	2860.4	2972.4	2899.4	2780.4	2846.4	3062.9	3323.4	3389.5	3287.0
66°	2570.9	2607.5	2817.8	2959.3	2918.6	2823.0	2901.2	3108.9	3348.6	3395.6	3276.5
67.5°	2453.7	2483.3	2723.9	2912.5	2927.2	2880.3	2966.4	3153.9	3341.7	3373.0	3220.1
70°	2179.9	2216.5	2482.3	2766.5	2882.9	2916.7	3011.5	3148.7	3256.5	3213.1	3009.9
72.5°	1847.3	1904.5	2168.7	2515.3	2743.1	2861.2	2964.5	3035.0	3030.6	2912.5	2670.0
75°	1471.1	1506.6	1786.4	2161.7	2480.6	2700.5	2803.9	2791.8	2683.1	2505.8	2233.8
77.5°	1098.3	1133.9	1382.4	1752.6	2117.5	2395.5	2489.4	2436.4	2234.8	2038.3	1775.1
80°	773.4	804.6	1012.2	1358.1	1710.8	1997.6	2075.8	2000.2	1753.4	1558.7	1334.6
82.5°	527.5	541.3	715.1	1014.8	1333.8	1577.9	1653.5	1556.1	1320.7	1135.5	960.9
85°	324.1	344.1	485.8	722.9	980.9	1168.7	1227.8	1151.3	948.8	801.1	662.1
87.5°	189.5	200.7	300.7	487.4	705.4	859.3	889.7	818.4	650.8	542.1	439.6
90°	101.7	110.3	173.0	304.0	478.7	594.3	616.9	550.9	425.7	345.8	281.4
92.5°	59.9	65.1	103.3	183.3	306.7	391.0	406.7	353.7	267.6	221.5	184.2
95°	39.0	42.6	67.8	114.8	188.6	247.7	255.5	218.9	169.4	146.0	127.6
97.5°	28.7	30.5	48.7	78.2	119.0	152.1	158.1	135.6	112.1	100.8	91.3
100°	22.5	24.3	37.4	57.3	79.9	98.2	99.9	88.7	77.3	71.2	67.8
102.5°	19.1	20.0	30.5	45.2	59.9	69.4	70.3	62.5	54.7	51.3	50.3
105°	16.4	17.3	26.1	37.4	47.8	53.9	53.9	46.9	40.0	37.4	38.3
107.5°	14.0	14.7	21.6	31.4	40.0	44.2	43.5	36.6	29.6	26.9	27.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	12.1	13.0	19.1	26.9	34.8	37.4	35.7	28.7	20.8	19.1	20.0
112.5°	11.3	11.3	16.4	23.4	29.6	31.4	28.7	21.6	14.7	14.0	14.7
115°	9.5	10.4	14.0	20.0	24.3	26.1	23.4	16.4	10.4	10.4	11.3
117.5°	8.8	9.5	12.1	16.4	20.8	21.6	19.1	13.0	7.8	7.8	8.8
120°	7.8	7.8	10.4	14.0	17.3	17.3	14.7	9.5	6.1	6.1	6.9
122.5°	6.9	7.8	8.8	11.3	14.0	14.0	11.3	6.9	5.2	5.2	6.1
125°	6.1	6.9	7.8	9.5	11.3	11.3	8.8	5.2	4.3	5.2	5.2
127.5°	6.1	6.1	6.9	7.8	9.5	8.8	6.9	3.5	4.3	4.3	5.2
130°	5.2	5.2	6.1	6.1	6.9	6.9	5.2	3.5	3.5	4.3	4.3
132.5°	4.3	4.3	5.2	5.2	6.1	5.2	3.5	2.6	3.5	3.5	4.3
135°	3.5	3.5	3.5	4.3	4.3	3.5	2.6	2.6	3.5	3.5	3.5
137.5°	3.5	2.6	3.5	3.5	2.6	1.7	1.7	1.7	2.6	3.5	3.5
140°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	1.7	2.6	2.6	3.5
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6
145°	0.0	0.0	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7	2.6
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7	1.7
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8	206.8
2.5°	209.3	208.5	205.9	204.2	202.5	200.7	200.7	200.7	199.9	199.0	199.0
5°	220.8	218.9	215.5	212.0	207.7	204.2	202.5	201.6	199.9	198.0	198.0
7.5°	238.9	236.3	230.2	223.3	218.9	213.7	212.0	210.3	207.7	205.9	205.1
10°	266.7	262.5	252.9	244.2	235.4	228.4	226.0	224.1	222.4	222.4	222.4
12.5°	304.0	298.9	286.6	271.1	260.7	250.3	246.8	245.9	246.8	247.7	247.7
15°	347.6	338.9	323.2	302.4	287.5	276.3	272.8	272.8	274.5	275.4	275.4
17.5°	397.9	387.4	361.5	337.1	317.1	305.0	299.8	299.8	303.3	305.0	305.9
20°	450.9	439.6	410.0	371.0	345.8	332.0	325.8	326.8	331.0	335.3	336.2
22.5°	511.8	498.6	454.5	406.7	373.6	355.4	348.5	351.0	358.0	364.1	365.8
25°	581.3	564.8	506.6	444.9	398.8	374.6	369.3	374.6	385.0	392.6	393.5
27.5°	656.9	636.0	559.6	479.6	417.9	386.6	383.1	393.5	405.8	415.3	417.1
30°	741.1	715.1	615.2	510.1	432.8	396.2	392.6	406.7	421.5	432.8	434.4
32.5°	835.0	799.3	669.1	536.1	441.3	399.7	397.9	414.5	432.8	444.0	445.6
35°	936.7	889.7	726.4	556.9	444.9	398.8	397.9	417.1	436.1	447.4	448.3
37.5°	1049.6	992.3	781.2	572.6	444.0	395.3	395.3	415.3	433.5	444.0	444.0
40°	1180.0	1103.5	841.1	583.0	439.6	389.2	390.1	408.4	425.7	432.8	433.5
42.5°	1328.6	1232.0	895.8	587.3	430.9	382.3	382.3	400.6	414.5	417.9	417.9
45°	1498.8	1375.5	955.7	586.6	422.3	374.6	375.3	391.0	401.5	402.4	401.5
47.5°	1702.9	1541.4	1012.2	583.0	410.0	366.7	369.3	383.1	391.0	390.1	389.2
50°	1927.1	1720.3	1067.8	575.2	399.7	361.5	364.9	377.9	385.0	382.3	380.5
52.5°	2169.5	1907.2	1117.4	563.1	388.3	357.0	363.2	376.2	382.3	377.9	377.9
55°	2420.8	2092.2	1156.5	544.8	378.8	354.6	364.1	376.2	383.1	378.8	378.8
57.5°	2648.4	2251.2	1174.8	523.9	371.0	353.7	365.8	380.5	386.6	383.1	383.1
60°	2827.3	2362.5	1162.5	499.5	363.2	352.8	369.3	385.8	392.6	388.3	388.3
62.5°	2934.1	2411.9	1119.1	473.5	357.0	353.7	374.6	393.5	398.8	393.5	391.9
65°	2929.8	2360.7	1046.2	445.6	351.0	353.7	377.9	397.9	402.4	396.2	393.5
66°	2891.6	2316.4	1008.7	435.3	349.4	352.8	378.8	397.9	403.2	396.2	393.5
67.5°	2819.5	2225.2	947.1	418.8	344.9	351.9	379.8	398.8	402.4	396.2	392.6
70°	2591.9	2022.8	831.6	391.0	337.1	347.6	377.1	396.2	398.8	393.5	390.1
72.5°	2251.2	1735.2	714.2	363.2	326.8	338.0	370.1	387.4	391.9	386.6	383.1
75°	1849.8	1407.6	597.0	336.2	311.1	324.1	356.3	373.6	378.8	374.6	370.1
77.5°	1437.9	1077.3	484.8	310.2	292.8	306.7	337.1	352.8	358.0	352.8	350.2
80°	1066.9	796.7	389.2	282.3	271.9	285.0	313.7	327.5	332.8	326.8	324.9
82.5°	765.4	577.8	310.2	252.0	246.8	258.9	285.0	297.2	301.6	298.0	291.9
85°	511.8	397.9	245.0	218.9	219.8	231.1	252.9	260.7	265.9	262.5	257.2
87.5°	346.7	272.8	193.8	185.9	188.6	196.4	216.3	222.4	226.0	221.5	220.8
90°	226.0	188.6	153.8	157.3	160.7	166.8	179.0	181.5	185.9	181.5	180.6
92.5°	153.8	138.2	125.1	131.2	135.6	139.9	146.9	148.6	152.1	148.6	146.9
95°	112.9	106.9	101.7	109.5	113.8	116.4	120.8	120.0	122.4	119.0	117.3
97.5°	86.0	82.6	83.5	90.4	94.7	96.5	98.2	96.5	97.2	93.9	92.0
100°	67.0	65.1	67.8	74.6	78.2	78.2	79.1	77.3	75.5	72.1	69.4
102.5°	51.3	51.3	54.7	61.8	64.3	64.3	63.4	60.8	58.2	54.7	54.7
105°	39.0	40.0	45.2	51.3	53.0	52.1	52.1	48.7	45.2	40.9	40.9
107.5°	29.6	30.5	35.7	41.7	43.5	43.5	41.7	38.3	33.9	30.5	30.5



REPORT NUMBER: P266254

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T4W-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.6	23.4	28.7	33.9	35.7	34.8	33.9	29.6	25.2	22.5	21.6
112.5°	16.4	17.3	22.5	26.9	28.7	28.7	26.9	22.5	18.2	16.4	16.4
115°	12.1	14.0	17.3	21.6	22.5	22.5	20.8	17.3	13.0	11.3	12.1
117.5°	9.5	10.4	14.0	17.3	17.3	17.3	15.6	12.1	9.5	8.8	8.8
120°	7.8	8.8	10.4	13.0	13.0	13.0	11.3	8.8	6.9	6.1	6.9
122.5°	6.1	6.9	7.8	9.5	9.5	9.5	8.8	6.1	4.3	4.3	5.2
125°	6.1	6.1	6.1	6.9	6.9	6.9	6.1	4.3	3.5	3.5	3.5
127.5°	5.2	5.2	5.2	5.2	5.2	4.3	3.5	2.6	1.7	2.6	2.6
130°	5.2	5.2	4.3	4.3	3.5	2.6	1.7	0.9	0.9	1.7	1.7
132.5°	4.3	4.3	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.9	0.9
135°	4.3	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
137.5°	3.5	3.5	3.5	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.6	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	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)