

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: P266239

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-22)  
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-T2U-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7231.5 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 II - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

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

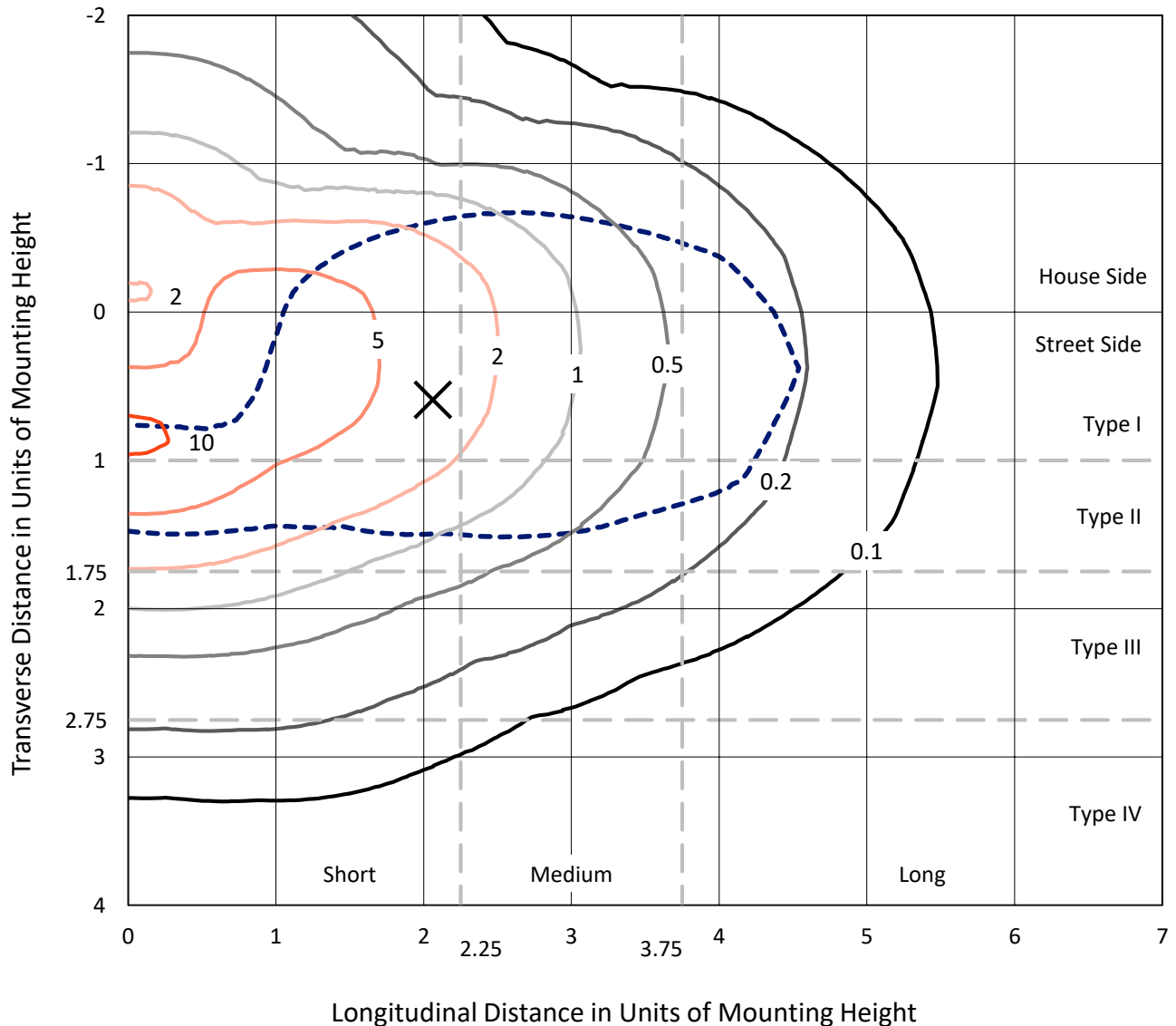


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

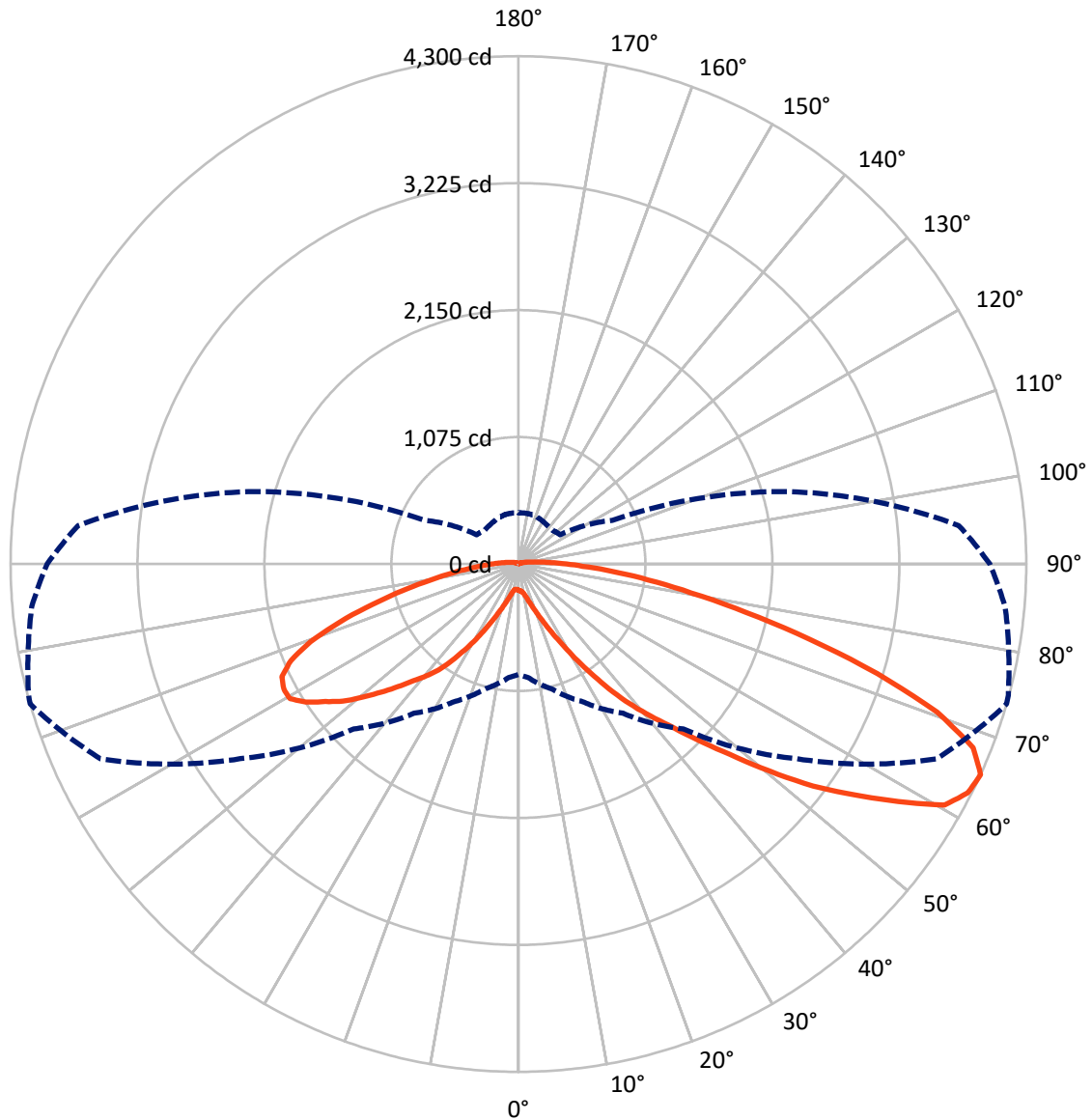


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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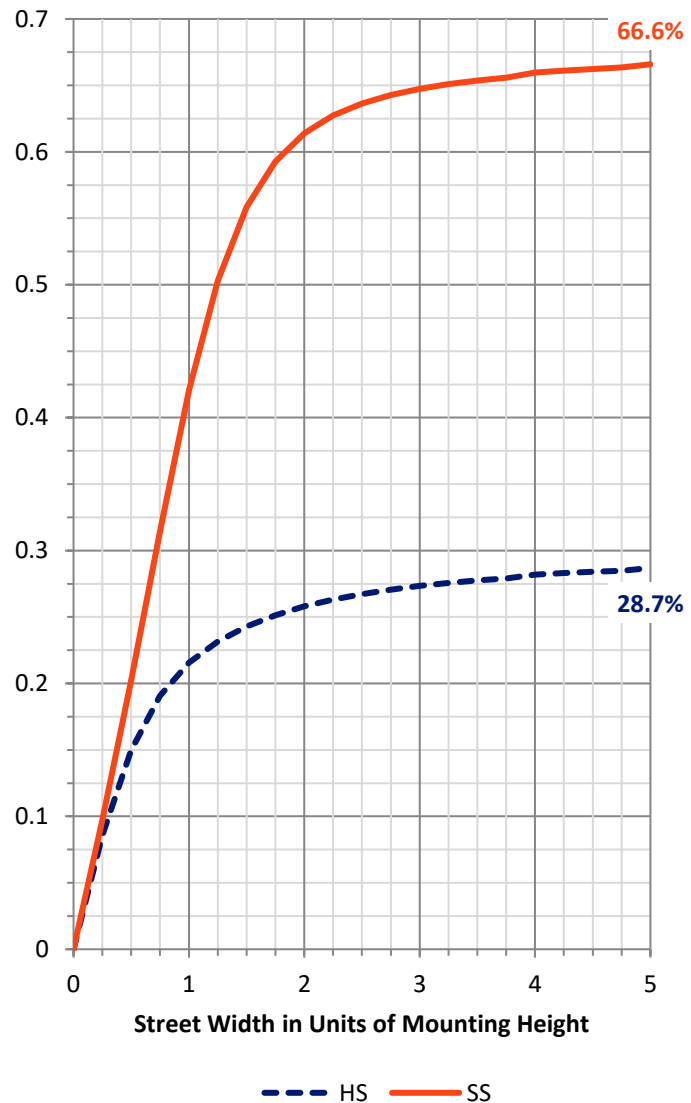
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2138.4	104.5	2243.0
	% Fixture	29.6	1.4	31.0
<b>Street Side</b>	Lumens	4882.1	106.4	4988.5
	% Fixture	67.5	1.5	69.0
<b>Total</b>	Lumens	7020.5	211.0	7231.5
	% Fixture	97.1	2.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	0.3
10°-20°	90.7	1.3
20°-30°	267.6	3.7
30°-40°	652.5	9.0
40°-50°	1191.2	16.5
50°-60°	1695.1	23.4
60°-70°	1706.5	23.6
70°-80°	1010.4	14.0
80°-90°	384.5	5.3
90°-100°	121.2	1.7
100°-110°	45.8	0.6
110°-120°	21.9	0.3
120°-130°	12.5	0.2
130°-140°	7.0	0.1
140°-150°	2.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7020.5	97.1
0°-180°	7231.5	100.0

**Coefficient of Utilization**



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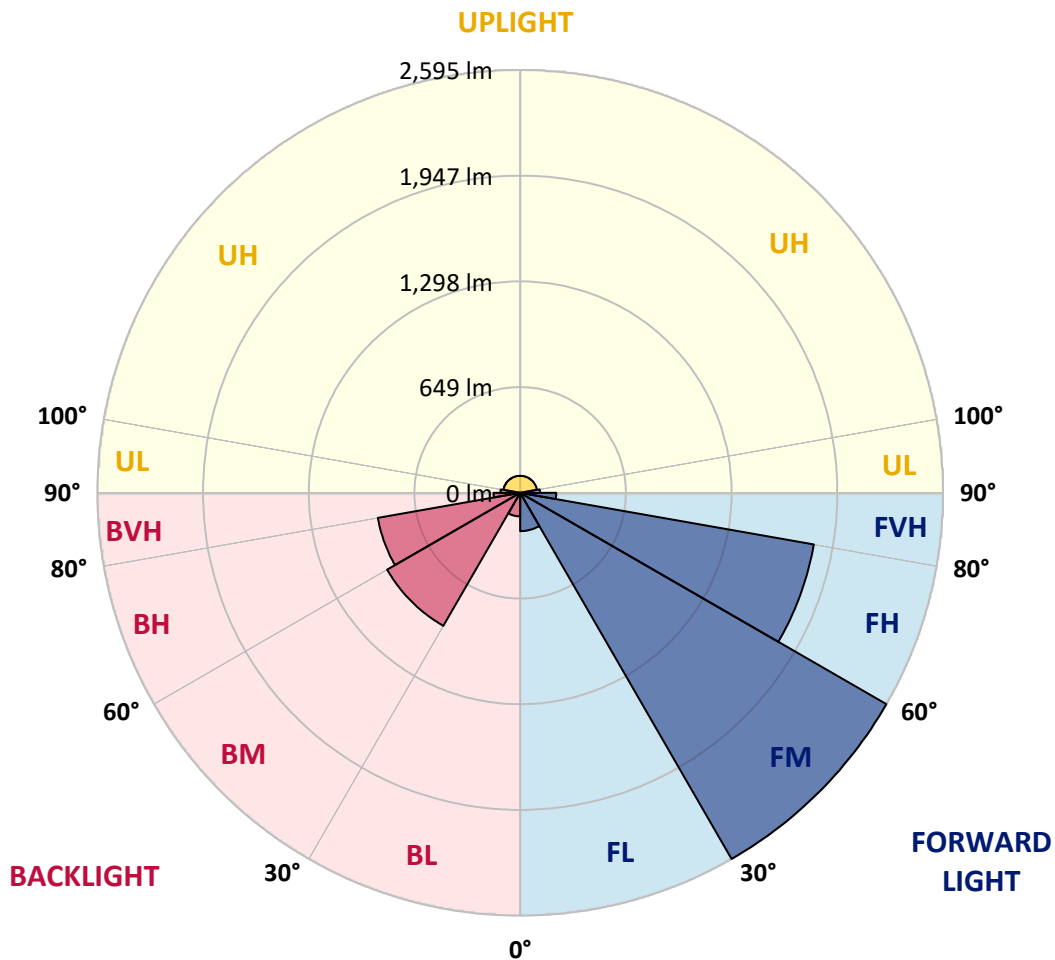
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.4	3.3			
FM (30°-60°)	2595.4	35.9			
FH (60°-80°)	1830.0	25.3			G2/5000
FVH (80°-90°)	221.2	3.1			G2/225
BL (0°-30°)	144.9	2.0	B1/500		
BM (30°-60°)	943.4	13.0	B1/1000		
BH (60°-80°)	886.9	12.3	B2/1000		G2/1000
BVH (80°-90°)	163.3	2.3			G2/225
UL (90°-100°)	121.2	1.7		U3/500	
UH (100°-180°)	104.5	1.4		U3/500	

**BUG Rating: B2-U3-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
2.5°	238.1	237.2	238.1	237.2	237.2	235.4	232.8	229.3	226.0	225.0	222.4
5°	254.6	254.6	254.6	252.9	251.0	248.6	243.4	237.2	231.1	230.2	225.0
7.5°	277.1	278.0	276.3	272.8	269.3	262.3	256.2	247.7	239.8	238.9	231.1
10°	311.1	310.2	307.6	303.2	293.7	285.8	275.4	263.3	254.6	252.9	243.4
12.5°	358.0	357.0	352.8	340.5	327.5	312.8	302.4	291.1	282.3	281.4	272.8
15°	418.8	417.1	408.4	392.6	371.9	352.8	344.1	332.7	324.1	323.2	314.4
17.5°	493.4	491.7	479.5	457.0	428.3	406.7	397.1	384.0	374.5	375.3	362.2
20°	587.3	583.0	566.6	536.1	501.3	475.3	460.6	447.4	439.6	438.7	429.2
22.5°	708.1	702.0	672.6	636.0	592.5	556.9	537.8	523.9	518.7	519.6	510.9
25°	862.7	851.5	814.0	763.6	709.8	655.1	632.4	616.9	619.6	621.2	612.6
27.5°	1046.0	1040.9	983.6	922.6	842.8	772.5	751.5	735.9	741.1	745.5	738.4
30°	1273.6	1256.3	1189.4	1098.2	994.9	908.7	881.9	876.7	890.5	896.6	892.2
32.5°	1535.3	1520.4	1429.3	1313.6	1163.3	1061.6	1030.4	1044.3	1066.8	1073.8	1068.7
35°	1845.4	1832.4	1709.8	1551.7	1360.7	1252.0	1210.2	1233.7	1262.4	1268.4	1260.7
37.5°	2166.0	2159.0	2025.1	1817.6	1583.9	1443.0	1407.6	1441.4	1471.9	1477.1	1450.9
40°	2440.5	2446.7	2312.9	2082.6	1813.3	1646.5	1625.6	1655.9	1664.6	1667.3	1617.8
42.5°	2663.8	2667.2	2550.8	2318.0	2028.7	1858.5	1847.2	1862.7	1865.4	1865.4	1808.0
45°	2722.9	2741.9	2675.2	2497.8	2233.7	2064.3	2064.3	2100.0	2117.3	2122.5	2048.7
47.5°	2749.8	2763.7	2725.5	2597.8	2398.8	2263.3	2308.5	2391.0	2408.4	2418.0	2323.2
50°	2725.5	2744.6	2737.7	2655.1	2511.8	2445.7	2577.7	2722.0	2754.2	2763.7	2648.2
52.5°	2534.4	2572.6	2630.0	2644.7	2580.4	2597.8	2850.6	3093.9	3122.6	3127.8	2956.6
55°	2258.1	2303.3	2400.6	2503.9	2565.6	2698.6	3115.6	3453.5	3446.6	3450.1	3253.8
57.5°	1910.5	1954.8	2086.0	2249.4	2428.4	2721.1	3274.6	3745.6	3793.4	3802.9	3616.9
60°	1590.8	1609.0	1749.8	1934.9	2172.0	2606.5	3274.6	3988.7	4144.3	4126.1	3874.1
62.5°	1222.5	1259.9	1406.7	1608.1	1866.1	2325.8	3155.6	4066.1	4269.5	4244.2	4007.9
65°	935.8	966.1	1095.7	1285.8	1543.0	1973.9	2873.1	3903.7	4299.7	4293.7	4136.4
67.5°	729.9	734.2	845.3	1007.9	1220.6	1592.5	2411.1	3588.3	4153.0	4152.1	4058.4
70°	551.6	556.1	646.4	796.6	942.7	1218.1	1925.2	3074.8	3762.9	3751.6	3795.0
72.5°	421.3	426.5	497.8	617.8	724.7	909.7	1467.4	2472.7	3177.2	3193.8	3258.2
75°	325.8	331.0	386.6	479.5	555.2	667.3	1060.0	1861.8	2547.5	2574.4	2709.0
77.5°	251.0	256.2	300.7	371.0	426.5	489.1	738.4	1365.9	1970.5	2005.2	2155.6
80°	192.9	198.0	237.2	287.5	332.7	371.0	520.4	978.3	1483.1	1522.2	1696.8
82.5°	149.5	154.7	187.7	228.4	266.7	292.8	378.8	696.7	1106.1	1138.2	1319.7
85°	115.5	120.0	147.7	179.8	216.3	239.8	290.2	493.4	794.1	821.1	964.4
87.5°	89.6	93.0	115.5	141.7	175.4	199.0	231.1	358.9	544.7	565.7	661.2
90°	67.7	71.2	89.6	109.5	139.0	164.2	185.1	258.1	374.5	386.6	435.3
92.5°	49.5	52.1	67.0	81.7	106.0	130.3	147.7	191.1	254.6	260.7	281.4
95°	37.4	39.0	49.5	60.8	79.9	100.8	114.7	140.8	171.1	174.6	181.5
97.5°	29.6	30.5	38.2	46.9	61.8	78.2	88.7	103.3	120.7	122.4	126.0
100°	25.2	26.1	32.2	39.0	49.5	62.5	70.3	79.9	89.6	90.4	93.0
102.5°	21.6	22.5	26.9	32.2	41.7	52.1	57.3	63.4	68.6	67.7	70.3
105°	19.1	19.1	23.4	27.8	35.7	43.5	46.9	50.3	52.1	52.1	53.9
107.5°	16.4	17.3	20.0	24.3	31.4	37.4	39.0	40.0	40.0	40.0	41.7
110°	14.7	14.7	17.3	20.8	26.9	32.2	33.0	32.2	31.4	31.4	33.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	13.0	13.0	14.7	19.1	24.3	28.7	28.7	26.9	24.3	24.3	26.1
115°	11.3	12.1	13.0	17.3	22.5	26.1	25.2	22.5	20.0	20.0	21.6
117.5°	10.4	10.4	12.1	15.6	20.8	23.4	22.5	19.1	16.4	16.4	18.2
120°	10.4	10.4	11.3	14.7	19.1	21.6	20.0	16.4	14.0	14.0	16.4
122.5°	10.4	10.4	11.3	14.0	17.3	19.1	18.2	14.7	12.1	12.1	14.0
125°	11.3	11.3	11.3	14.0	16.4	18.2	16.4	14.0	11.3	11.3	12.1
127.5°	12.1	12.1	12.1	14.0	15.6	16.4	14.7	12.1	10.4	10.4	11.3
130°	13.0	13.0	12.1	13.0	14.7	14.7	14.0	11.3	9.5	9.5	11.3
132.5°	13.0	13.0	12.1	12.1	13.0	13.0	12.1	9.5	8.8	8.8	10.4
135°	12.1	12.1	11.3	11.3	11.3	11.3	9.5	7.8	7.8	7.8	8.8
137.5°	11.3	11.3	10.4	10.4	10.4	9.5	7.8	6.1	6.1	6.1	7.8
140°	9.5	9.5	9.5	8.8	8.8	7.8	6.1	5.2	5.2	5.2	6.1
142.5°	8.8	7.8	7.8	6.9	6.9	6.1	4.3	3.5	3.5	3.5	4.3
145°	6.9	6.9	6.1	5.2	5.2	4.3	2.6	1.7	2.6	2.6	3.5
147.5°	5.2	5.2	4.3	4.3	3.5	2.6	0.9	1.7	1.7	1.7	2.6
150°	3.5	3.5	3.5	2.6	1.7	0.9	0.9	0.9	0.9	1.7	1.7
152.5°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.9	0.9	0.9	1.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
2.5°	220.7	219.8	218.1	214.5	213.7	212.0	209.3	208.5	206.8	207.7	206.8
5°	222.4	220.7	214.5	211.1	206.8	204.2	201.6	199.9	198.0	197.2	196.4
7.5°	226.7	224.1	217.2	210.3	204.2	199.9	196.4	193.8	192.0	191.1	190.4
10°	238.1	234.5	224.1	214.5	205.1	199.0	194.7	192.0	190.4	190.4	190.4
12.5°	265.9	261.5	245.9	229.3	213.7	204.2	199.0	202.5	206.8	211.1	213.7
15°	305.9	300.7	281.4	258.1	234.5	220.7	221.5	228.4	233.6	238.9	239.8
17.5°	356.2	349.4	324.9	293.7	262.3	251.0	247.7	254.6	263.3	268.5	271.1
20°	418.8	410.0	378.8	335.3	304.0	287.5	279.7	282.3	291.9	300.7	301.6
22.5°	498.6	483.1	446.5	386.6	347.6	322.3	311.1	311.1	324.1	335.3	337.1
25°	600.3	585.5	527.3	451.8	394.4	356.2	343.2	345.8	363.2	377.9	379.7
27.5°	725.6	704.6	628.2	529.1	443.1	385.7	371.9	378.8	396.2	411.9	413.6
30°	874.9	841.9	744.5	612.6	490.8	415.2	393.5	402.4	417.9	434.4	434.4
32.5°	1044.3	1005.3	875.8	701.1	536.1	436.1	405.8	417.1	432.7	449.2	448.3
35°	1227.7	1182.4	1012.2	790.6	576.9	450.9	411.9	424.9	443.1	463.0	463.0
37.5°	1413.6	1367.5	1149.4	870.5	605.5	452.7	413.6	432.7	457.0	475.3	473.4
40°	1566.5	1503.9	1260.7	927.9	617.8	448.3	416.2	437.0	455.4	463.0	461.4
42.5°	1749.8	1669.9	1371.1	957.5	609.9	440.4	417.1	431.8	440.4	440.4	437.0
45°	1971.4	1880.2	1508.3	988.8	589.9	431.8	412.7	421.3	421.3	414.4	409.2
47.5°	2239.8	2116.4	1653.4	1016.5	570.0	424.0	408.4	411.9	402.4	391.8	388.3
50°	2552.7	2403.1	1813.3	1036.6	550.8	417.9	406.7	404.9	397.9	387.4	384.0
52.5°	2841.1	2673.4	1979.1	1052.2	530.9	415.2	406.7	406.7	399.7	385.0	381.4
55°	3125.2	2946.3	2112.2	1043.4	509.1	416.2	410.0	411.9	402.4	387.4	384.0
57.5°	3483.1	3290.2	2270.2	1027.8	486.5	417.9	413.6	415.2	406.7	392.6	389.2
60°	3731.6	3517.9	2383.3	1003.4	465.7	417.9	415.2	417.9	415.2	408.4	405.8
62.5°	3879.3	3641.2	2395.3	947.9	450.1	414.4	413.6	422.3	428.3	425.7	423.1
65°	3990.5	3742.0	2368.4	875.8	431.8	404.9	409.2	423.1	433.5	434.4	433.5
67.5°	3904.6	3648.1	2238.0	791.4	410.0	392.6	401.5	417.1	432.7	437.8	437.0
70°	3640.4	3388.4	2013.9	688.1	385.0	373.5	385.7	406.7	423.1	429.2	427.5
72.5°	3097.4	2872.3	1705.5	589.1	355.4	348.5	361.5	385.7	399.7	403.1	400.6
75°	2563.9	2365.7	1369.2	485.7	323.2	317.1	329.3	348.5	358.0	358.0	353.7
77.5°	2049.6	1865.4	1078.2	403.1	290.2	283.2	294.6	305.9	307.6	301.6	297.1
80°	1609.9	1436.2	816.6	333.6	256.2	249.4	252.9	259.8	262.3	251.0	245.0
82.5°	1248.6	1093.0	613.5	276.3	223.3	214.5	217.2	220.7	221.5	207.7	200.7
85°	900.1	782.9	450.1	232.8	192.0	184.2	183.3	184.2	185.1	173.0	166.8
87.5°	617.8	536.1	329.3	195.6	165.9	158.1	156.3	155.5	155.5	142.6	136.5
90°	406.7	359.7	245.0	165.1	140.8	132.9	129.4	128.5	126.8	112.9	107.7
92.5°	264.1	241.6	181.5	135.6	116.4	109.5	105.1	102.5	99.9	86.9	81.7
95°	173.0	163.3	137.4	108.7	93.9	87.8	84.4	80.8	77.3	66.0	62.5
97.5°	122.4	119.0	106.9	87.8	74.6	70.3	67.7	65.1	62.5	53.0	51.3
100°	92.0	91.2	86.0	72.1	60.8	58.2	55.7	53.9	52.1	45.2	43.5
102.5°	71.2	72.1	70.3	59.1	51.3	48.7	46.9	45.2	44.2	39.0	38.2
105°	55.7	57.3	56.5	49.5	43.5	41.7	40.0	38.2	37.4	33.9	33.9
107.5°	43.5	45.2	46.1	40.9	37.4	35.7	33.9	32.2	32.2	30.5	30.5
110°	34.8	36.6	38.2	34.8	32.2	31.4	29.6	27.8	26.9	26.9	26.9



REPORT NUMBER: P266239

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-A-7027

**CANDELA DISTRIBUTION (continued):**

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