

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: P266071

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T3-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-40-D-U-T3-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3619.8 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U3 - G2

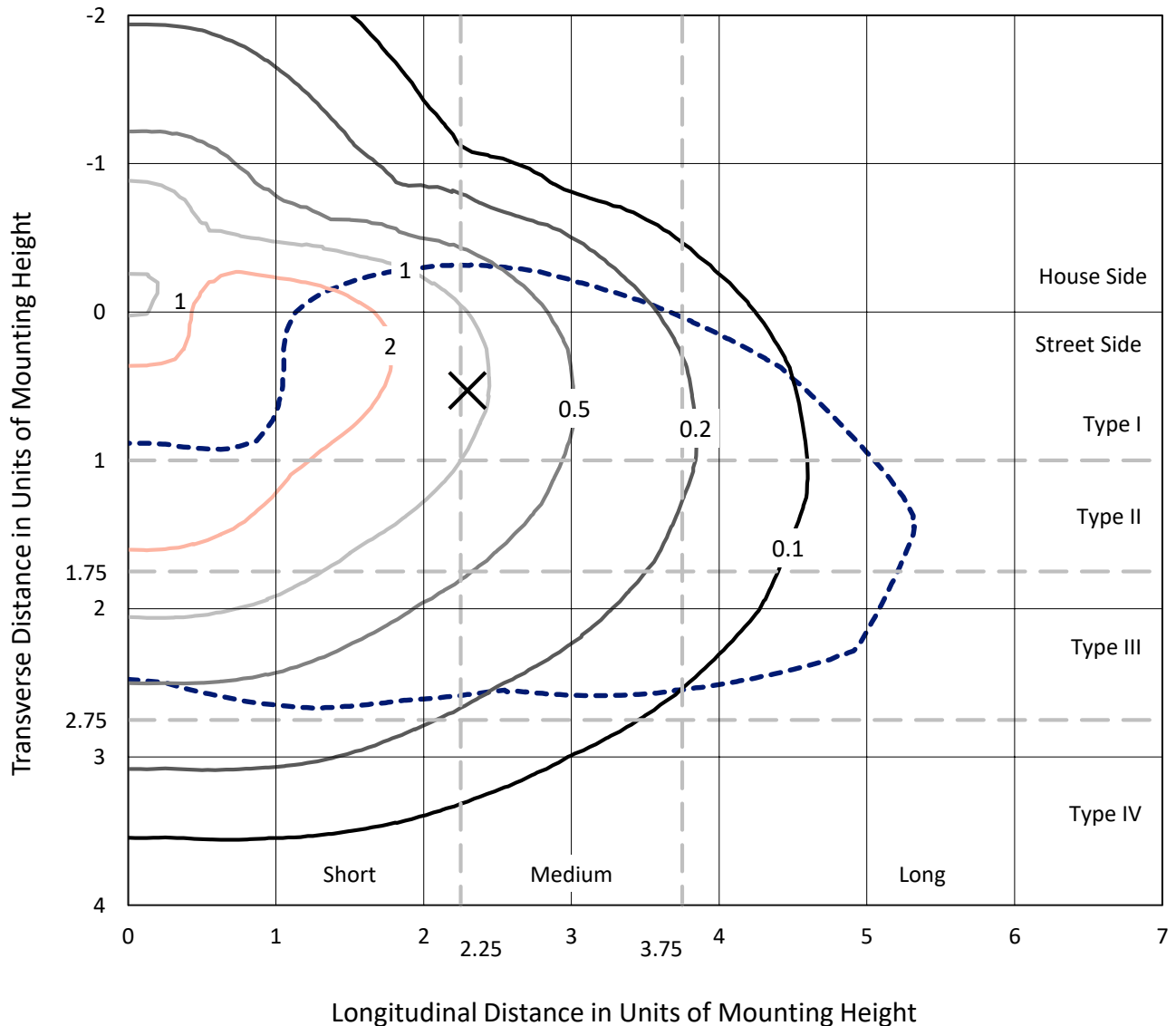
Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

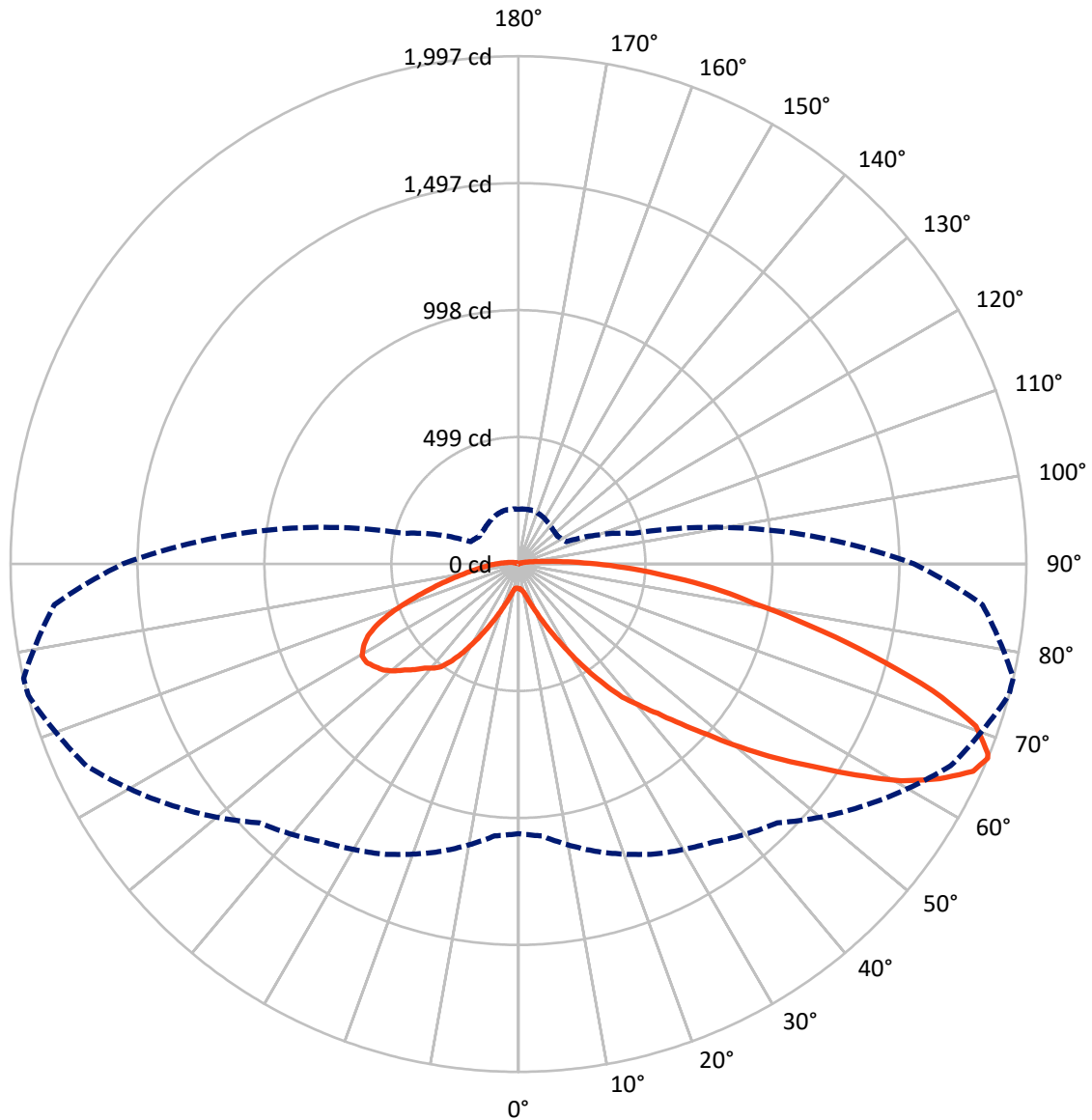
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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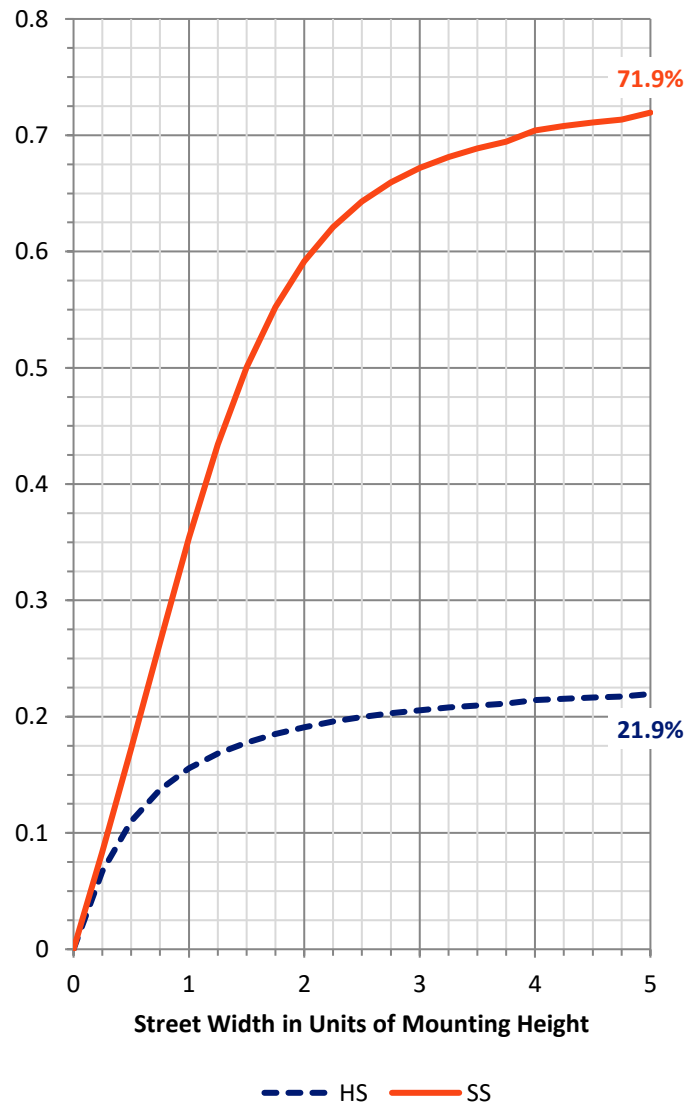
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	830.0	52.8	882.8
	% Fixture	22.9	1.5	24.4
<b>Street Side</b>	Lumens	2668.3	68.7	2737.0
	% Fixture	73.7	1.9	75.6
<b>Total</b>	Lumens	3498.2	121.5	3619.8
	% Fixture	96.6	3.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.7	0.3
10°-20°	40.7	1.1
20°-30°	118.9	3.3
30°-40°	276.2	7.6
40°-50°	484.5	13.4
50°-60°	744.6	20.6
60°-70°	920.8	25.4
70°-80°	642.8	17.8
80°-90°	260.2	7.2
90°-100°	76.9	2.1
100°-110°	24.8	0.7
110°-120°	10.6	0.3
120°-130°	5.5	0.2
130°-140°	2.8	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3498.2	96.6
0°-180°	3619.8	100.0



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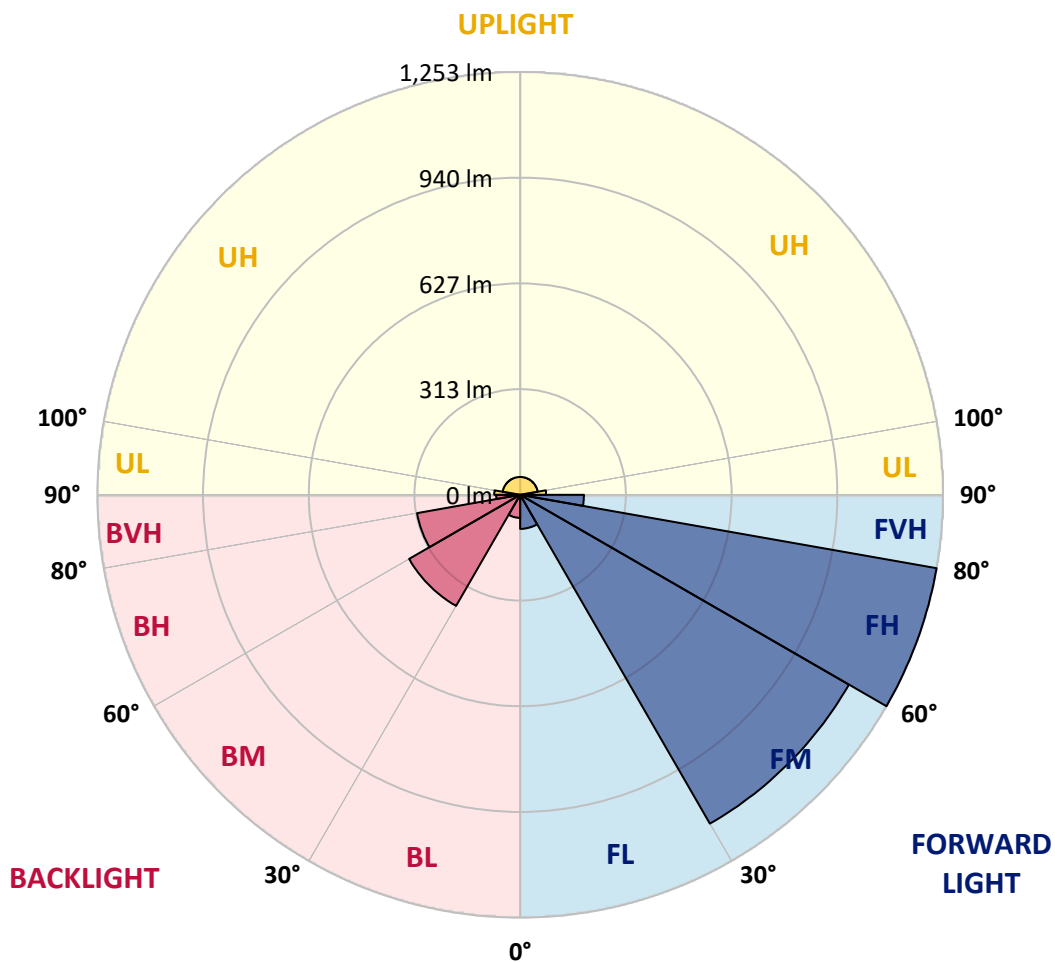
CATALOG NUMBER: LXF.LXT-AF24-40-D-U-T3-A-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.9	2.8			
FM	(30°-60°)	1125.2	31.1			
FH	(60°-80°)	1253.2	34.6			G1/1800
FVH	(80°-90°)	189.0	5.2			G2/225
BL	(0°-30°)	68.3	1.9	B0/110		
BM	(30°-60°)	380.1	10.5	B1/1000		
BH	(60°-80°)	310.4	8.6	B1/500		G1/500
BVH	(80°-90°)	71.2	2.0			G1/100
UL	(90°-100°)	76.9	2.1		U3/500	
UH	(100°-180°)	52.8	1.5		U3/500	

**BUG Rating: B1-U3-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	102.3	102.9	102.9	102.9	102.3	101.5	100.3	99.4	98.1	97.6	96.7
5°	110.2	110.2	110.2	109.9	109.0	107.2	105.5	103.2	100.6	100.3	98.5
7.5°	118.9	119.4	118.9	118.0	115.9	114.2	111.5	108.4	105.5	104.6	102.3
10°	131.6	131.6	130.8	128.9	125.9	122.3	119.4	115.9	112.8	112.0	109.4
12.5°	150.7	150.7	148.9	144.2	139.4	134.7	131.2	128.5	126.8	125.6	123.7
15°	175.2	175.6	173.0	165.6	159.4	152.1	148.9	148.6	148.1	146.9	145.0
17.5°	204.8	204.8	200.4	190.4	182.5	175.6	172.6	172.6	172.6	172.6	171.7
20°	240.0	240.4	234.8	220.4	212.2	203.9	201.0	201.3	203.0	203.5	203.5
22.5°	285.4	287.1	278.5	258.8	248.8	236.7	234.4	236.7	241.4	242.7	244.9
25°	347.3	344.6	333.4	307.6	292.8	277.9	274.5	280.6	289.8	292.4	297.2
27.5°	412.2	412.6	396.5	365.2	340.3	322.4	320.6	332.9	345.9	349.4	357.3
30°	495.0	495.9	471.4	432.7	395.7	372.9	372.9	393.0	413.0	418.7	431.4
32.5°	594.3	593.4	557.3	510.6	459.3	431.4	432.3	461.4	490.1	496.8	508.5
35°	709.8	708.5	660.6	599.1	530.7	494.5	498.5	535.5	572.5	578.6	597.4
37.5°	827.9	829.1	776.0	698.1	609.6	562.1	569.4	613.5	658.7	663.2	678.0
40°	934.5	941.2	887.5	800.4	695.0	633.0	641.7	684.1	728.5	730.2	735.9
42.5°	1037.1	1037.8	992.9	900.2	783.4	711.5	712.4	752.9	795.2	802.5	805.2
45°	1102.3	1111.6	1075.4	991.6	872.8	791.6	784.3	824.9	887.0	895.8	895.8
47.5°	1176.9	1186.4	1145.0	1074.1	959.0	872.3	866.1	918.1	992.5	1001.7	998.1
50°	1260.5	1272.3	1242.1	1165.1	1044.8	958.1	968.6	1029.2	1119.4	1132.5	1128.5
52.5°	1324.1	1336.8	1318.4	1263.9	1141.1	1058.4	1069.6	1154.2	1253.9	1267.0	1252.2
55°	1347.6	1365.1	1370.8	1342.8	1240.5	1164.7	1199.4	1291.0	1389.0	1403.1	1387.3
57.5°	1346.7	1364.6	1386.4	1382.5	1323.7	1274.1	1325.0	1431.8	1550.2	1564.2	1548.0
60°	1337.1	1358.1	1398.2	1403.4	1370.4	1370.4	1452.6	1599.5	1718.0	1730.7	1684.4
62.5°	1253.9	1280.2	1353.2	1406.0	1396.1	1432.2	1569.3	1738.5	1853.1	1859.1	1772.4
65°	1149.8	1174.3	1254.8	1340.2	1387.7	1453.9	1645.7	1837.5	1957.1	1964.1	1839.5
67°	1059.6	1072.8	1169.1	1258.3	1334.2	1439.2	1657.5	1875.3	1995.1	1996.5	1831.3
67.5°	1027.4	1040.9	1139.0	1234.5	1315.4	1428.7	1651.4	1878.7	1992.9	1990.4	1815.7
70°	858.3	866.1	968.6	1091.4	1182.4	1315.8	1575.5	1811.3	1916.3	1908.4	1708.3
72.5°	634.5	640.9	747.2	896.7	1004.3	1151.2	1411.2	1667.4	1725.9	1704.5	1471.0
75°	439.6	444.9	527.7	655.4	796.4	951.6	1206.5	1419.1	1462.3	1435.6	1219.1
77.5°	290.6	294.6	359.1	459.7	589.5	760.8	981.7	1172.5	1207.3	1176.4	979.1
80°	184.3	187.3	235.3	314.5	432.3	597.0	788.3	953.8	968.6	939.4	765.0
82.5°	116.8	119.8	152.1	213.1	310.3	454.5	620.0	768.6	788.6	771.3	598.2
85°	75.0	79.3	102.3	146.0	220.1	333.4	483.2	611.2	609.1	580.3	439.2
87.5°	53.2	56.7	74.1	104.2	155.0	236.2	353.4	443.6	438.4	419.1	305.5
90°	39.6	42.3	54.8	75.7	111.5	165.6	244.9	307.2	291.9	280.1	201.7
92.5°	29.1	31.4	41.0	55.3	79.7	115.9	161.7	198.6	183.1	174.7	127.6
95°	21.4	22.6	30.1	40.6	57.9	80.6	105.9	125.0	112.4	106.8	80.6
97.5°	16.6	17.4	23.0	31.4	43.1	57.9	71.4	78.4	71.4	68.0	55.8
100°	14.0	14.4	19.1	24.9	34.0	43.9	50.9	53.5	49.2	47.0	40.6
102.5°	11.8	12.1	15.7	20.5	27.5	34.9	38.4	39.3	35.4	34.0	30.5
105°	10.1	10.5	13.6	17.4	23.0	28.3	30.1	29.1	25.7	24.9	23.0
107.5°	8.8	9.2	11.3	14.8	19.1	23.5	24.0	22.2	19.1	18.2	17.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	7.8	7.8	10.1	12.7	16.6	19.7	19.7	17.0	14.4	14.0	14.0
112.5°	6.9	6.9	8.8	10.9	14.4	16.6	16.1	13.6	10.9	10.5	10.9
115°	6.1	6.1	7.4	10.1	12.7	14.4	13.6	10.9	8.3	8.3	9.2
117.5°	5.7	5.7	6.9	9.2	11.3	12.7	11.3	8.8	6.9	6.9	7.4
120°	5.2	5.2	6.6	8.3	10.5	11.3	10.1	7.4	5.7	5.7	6.6
122.5°	5.2	5.2	6.1	7.8	9.6	10.1	8.8	6.6	4.9	5.2	5.7
125°	5.2	5.7	6.1	7.4	8.8	8.8	7.4	5.7	4.3	4.3	5.2
127.5°	5.7	5.7	6.1	6.9	7.8	7.8	6.6	4.9	4.3	4.3	4.9
130°	6.1	6.1	6.1	6.6	6.9	6.6	5.7	4.3	4.0	4.0	4.3
132.5°	6.1	6.1	6.1	6.1	6.1	5.7	4.9	4.0	3.6	4.0	4.3
135°	5.7	5.7	5.7	5.7	5.2	4.9	4.0	3.1	3.1	3.1	3.6
137.5°	5.2	4.9	4.9	4.9	4.3	4.0	3.1	2.2	2.6	2.6	3.1
140°	4.3	4.3	4.3	4.0	3.6	3.1	2.2	1.7	2.2	2.2	2.6
142.5°	3.6	3.6	3.6	3.1	2.6	2.2	1.3	1.3	1.7	2.2	2.2
145°	2.6	2.6	2.6	2.2	1.7	1.3	0.9	1.3	1.7	1.7	1.7
147.5°	1.7	1.7	1.7	1.7	0.9	0.4	0.9	0.9	1.3	1.3	1.7
150°	0.9	0.9	1.3	0.9	0.4	0.4	0.4	0.9	0.9	1.3	1.3
152.5°	0.4	0.4	0.9	0.4	0.0	0.0	0.0	0.4	0.9	0.9	0.9
155°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
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°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
2.5°	96.3	95.8	95.0	93.7	92.9	92.3	92.3	91.4	91.4	91.4	91.1
5°	98.1	96.7	95.0	93.2	91.4	90.2	89.7	88.9	88.0	88.0	87.6
7.5°	100.6	99.4	96.3	93.7	91.1	89.3	88.5	87.6	86.6	86.2	85.9
10°	107.6	105.9	101.1	96.7	93.2	90.5	89.3	88.5	87.6	87.6	87.1
12.5°	122.0	118.9	112.8	105.5	98.1	94.1	92.9	95.8	97.1	98.5	98.5
15°	143.4	140.2	131.2	120.3	109.4	102.0	104.2	108.4	112.0	114.2	114.2
17.5°	169.5	164.7	153.4	137.7	123.2	118.0	117.1	122.0	127.2	130.3	130.3
20°	200.4	194.8	179.1	157.7	141.7	133.8	132.1	136.5	142.6	147.2	147.2
22.5°	240.4	234.0	210.9	180.7	159.9	148.9	146.9	151.2	159.9	166.5	165.9
25°	292.8	282.3	250.5	208.6	178.3	163.0	161.2	168.3	179.9	189.2	190.4
27.5°	353.4	338.5	291.1	238.8	196.1	175.2	175.6	185.2	199.6	209.6	209.6
30°	421.8	406.0	339.9	268.5	211.3	185.6	187.3	200.1	214.3	224.3	224.3
32.5°	501.1	478.0	391.2	297.6	224.8	193.4	195.2	210.5	224.8	235.7	236.2
35°	581.3	549.9	437.8	321.6	236.2	200.1	201.0	218.7	234.4	246.7	247.9
37.5°	654.4	613.9	479.2	338.1	241.4	203.0	204.4	224.8	243.1	254.5	254.5
40°	706.7	655.8	499.3	342.1	242.7	203.9	207.9	228.8	242.7	247.9	245.7
42.5°	766.0	703.3	511.9	335.4	238.0	203.5	209.6	226.2	233.5	234.0	231.9
45°	848.8	767.3	535.0	329.9	229.2	202.6	207.4	219.5	221.8	217.8	215.2
47.5°	944.6	837.0	554.3	322.9	223.5	200.4	204.4	211.8	210.1	203.0	201.0
50°	1052.6	925.4	578.1	314.1	219.1	197.7	201.3	206.2	203.9	196.5	194.8
52.5°	1158.5	1003.0	593.4	305.1	215.2	196.5	199.2	204.8	202.2	193.4	190.8
55°	1269.7	1081.9	597.0	289.3	212.2	196.5	199.6	205.6	202.6	193.4	190.8
57.5°	1400.4	1166.8	597.0	271.0	207.4	197.4	201.0	207.0	204.4	195.2	193.0
60°	1506.6	1227.4	584.3	254.8	201.7	197.4	201.3	207.9	207.4	201.0	199.6
62.5°	1565.4	1249.6	549.9	237.1	197.0	196.1	201.7	210.1	213.1	208.2	207.0
65°	1596.8	1242.1	509.8	219.1	192.5	193.4	201.7	211.3	216.1	213.4	211.8
67°	1556.0	1190.0	465.9	207.0	188.3	191.2	201.0	211.3	217.8	217.0	215.2
67.5°	1535.5	1169.1	453.1	204.8	186.8	190.8	200.4	211.3	217.8	217.8	216.1
70°	1407.7	1051.3	387.3	188.6	178.7	184.3	195.7	209.1	216.5	217.0	216.1
72.5°	1190.0	864.4	319.7	173.5	168.3	174.7	188.6	202.6	209.6	208.6	207.9
75°	969.5	697.2	260.6	158.6	155.9	163.4	176.0	189.2	193.9	191.7	190.8
77.5°	767.7	543.7	213.4	144.2	143.8	150.3	160.3	169.9	172.6	168.6	168.3
80°	589.9	415.6	174.7	132.5	131.2	136.0	142.9	149.5	151.2	147.2	146.5
82.5°	451.8	315.0	145.0	119.4	118.9	121.6	126.3	130.8	133.8	129.8	128.5
85°	326.8	230.4	122.0	105.5	105.9	107.2	110.2	113.2	117.7	116.3	114.7
87.5°	227.9	167.4	103.8	92.3	92.3	93.2	95.0	98.1	103.8	103.2	101.5
90°	155.0	120.7	87.1	80.6	79.3	79.7	81.0	82.7	88.0	87.6	86.2
92.5°	103.8	85.9	70.5	66.7	66.3	66.7	66.7	68.0	70.5	69.3	68.0
95°	69.3	61.9	56.2	54.0	53.2	53.5	53.5	52.7	54.4	52.3	50.9
97.5°	49.6	46.6	45.4	43.6	42.3	42.7	42.7	41.9	42.3	39.3	38.4
100°	37.9	37.0	37.0	35.4	34.0	34.5	34.5	34.0	33.5	30.1	29.6
102.5°	30.1	29.6	30.1	28.7	27.5	28.3	27.8	27.5	26.6	23.5	23.0
105°	23.5	23.5	24.9	23.5	22.6	23.0	23.0	22.2	21.4	18.8	18.8
107.5°	18.2	18.8	20.0	19.1	18.8	19.1	18.8	17.8	16.6	14.8	14.8



REPORT NUMBER: P266071

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-T3-A-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	14.4	15.2	16.6	16.1	15.7	16.1	15.2	14.4	13.0	12.1	12.1
112.5°	11.8	12.1	13.6	13.6	13.0	13.6	12.7	11.3	10.5	10.1	10.1
115°	9.6	10.5	11.3	11.3	11.3	11.3	10.5	9.2	8.3	8.3	8.3
117.5°	8.3	8.8	9.6	9.6	9.6	9.6	8.8	7.4	6.6	6.9	6.9
120°	6.9	7.4	8.3	8.3	8.3	8.3	7.4	6.1	5.2	5.7	5.7
122.5°	6.1	6.6	6.9	7.4	7.4	6.9	6.1	5.2	4.3	4.9	4.9
125°	5.7	6.1	6.1	6.6	6.1	6.1	5.2	4.3	4.0	4.3	4.3
127.5°	5.2	5.7	5.7	5.7	5.7	4.9	4.3	3.6	3.1	3.6	4.0
130°	4.9	5.2	5.2	4.9	4.3	4.0	3.6	3.1	2.6	3.1	3.6
132.5°	4.9	4.9	4.9	4.3	4.0	3.1	2.6	2.2	2.2	2.6	3.1
135°	4.0	4.0	4.0	3.6	2.6	2.2	1.7	1.7	1.7	2.2	2.2
137.5°	3.1	3.6	3.1	2.6	2.2	1.7	1.3	1.3	1.3	1.7	1.7
140°	2.6	2.6	2.6	2.2	1.7	0.9	0.4	0.4	0.9	0.9	1.3
142.5°	2.2	2.6	2.2	1.7	1.3	0.4	0.0	0.4	0.4	0.4	0.4
145°	2.2	2.2	1.7	1.3	0.9	0.4	0.0	0.0	0.4	0.0	0.0
147.5°	1.7	1.7	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.3	1.3	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	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)