

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: P255012

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U-FL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P255012  
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-AF24-20-D-U-T2U-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 260mA 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: 2338.5 lumens  
Efficiency: N/A  
Efficacy: 111.4 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: B1 - U3 - G2

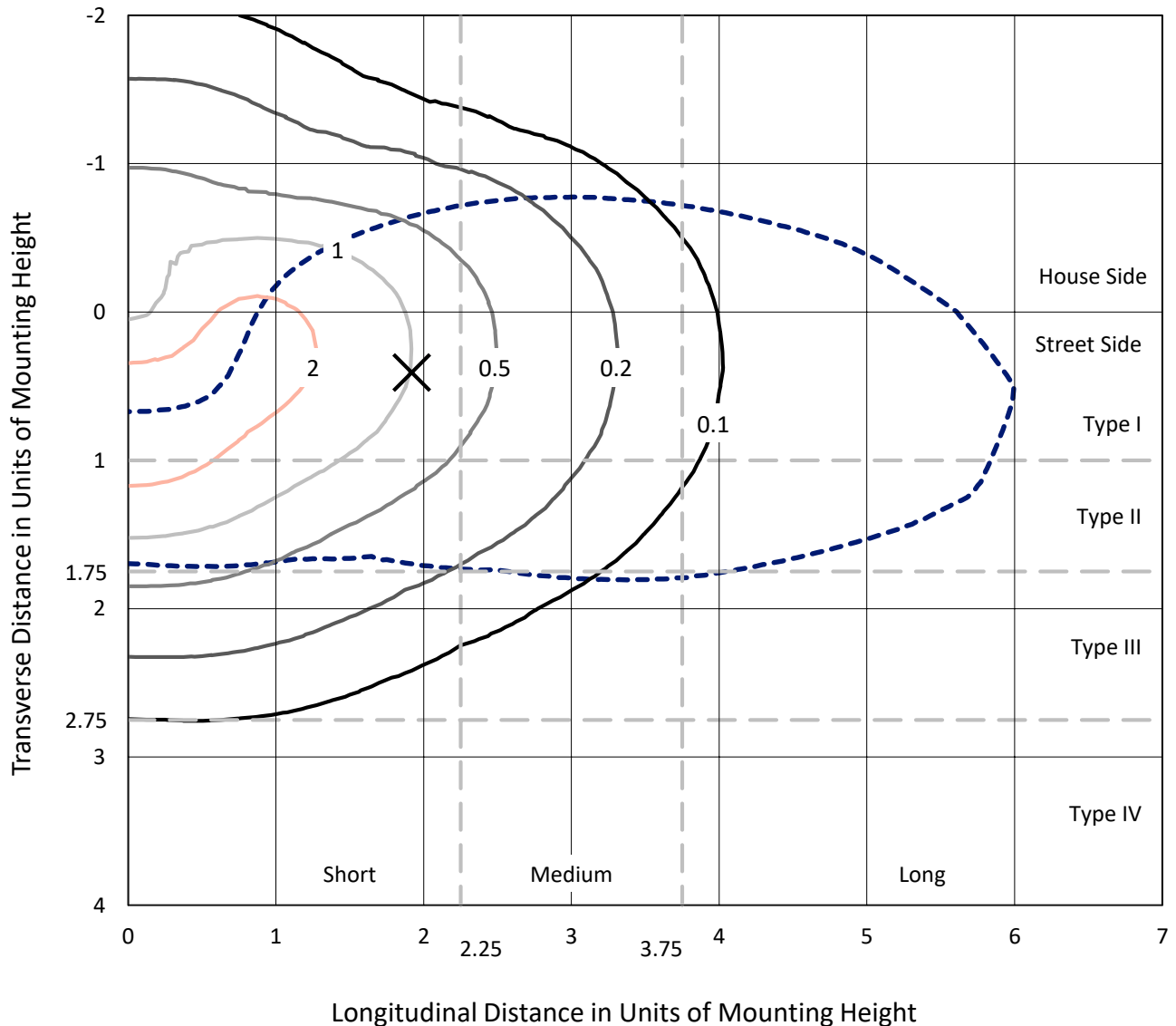
Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

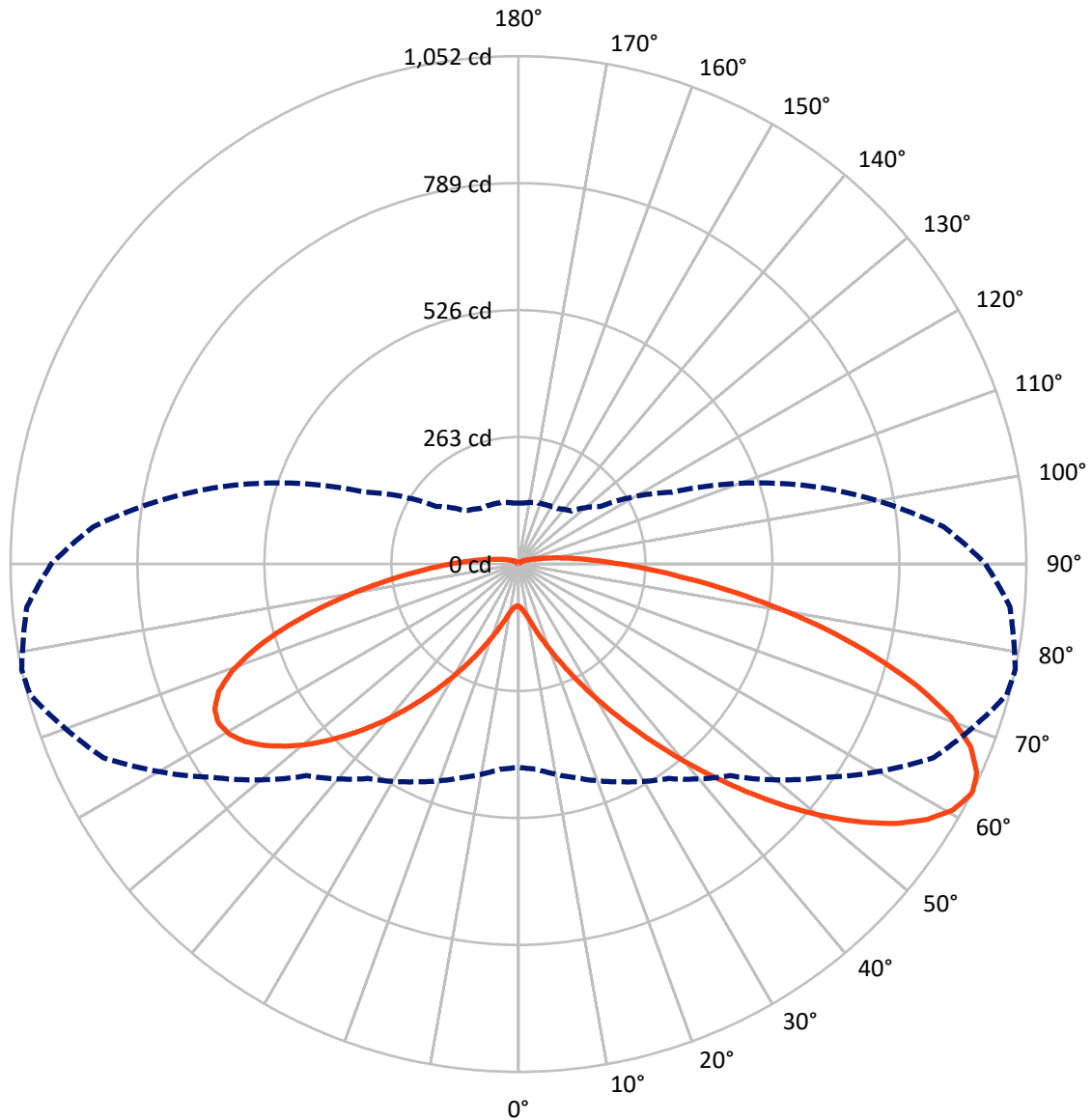
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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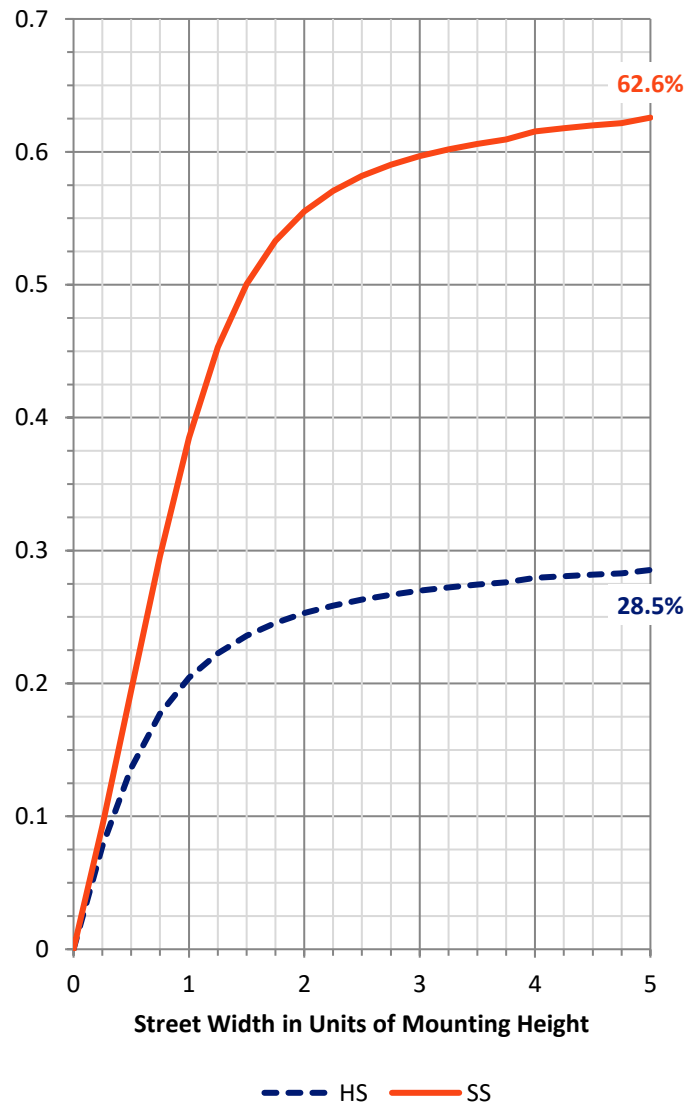
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	694.6	63.5	758.1
	% Fixture	29.7	2.7	32.4
<b>Street Side</b>	Lumens	1501.7	78.6	1580.3
	% Fixture	64.2	3.4	67.6
<b>Total</b>	Lumens	2196.3	142.1	2338.5
	% Fixture	93.9	6.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.3	0.4
10°-20°	39.8	1.7
20°-30°	104.2	4.5
30°-40°	216.3	9.2
40°-50°	364.3	15.6
50°-60°	478.9	20.5
60°-70°	474.2	20.3
70°-80°	337.6	14.4
80°-90°	171.8	7.3
90°-100°	74.7	3.2
100°-110°	34.2	1.5
110°-120°	17.4	0.7
120°-130°	9.3	0.4
130°-140°	4.6	0.2
140°-150°	1.6	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2196.3	93.9
0°-180°	2338.5	100.0



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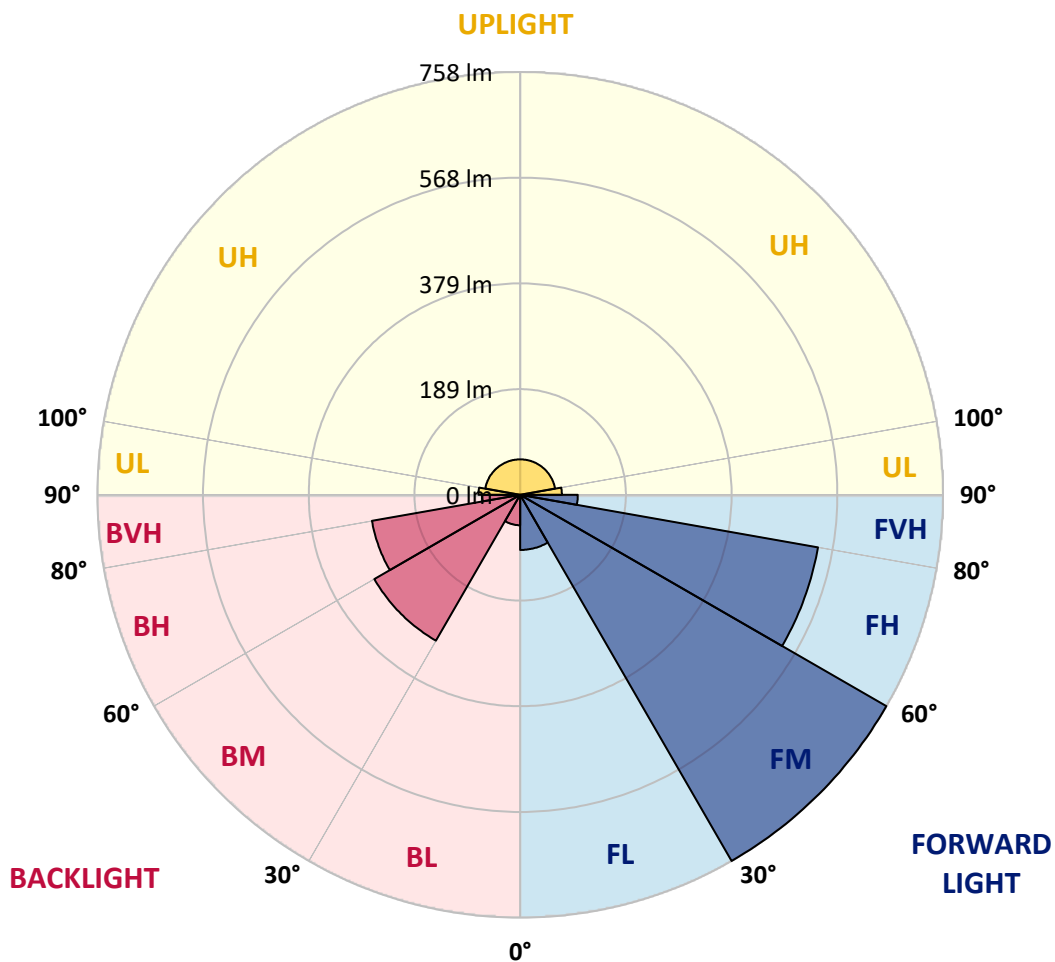
CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-FL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.8	4.2			
FM	(30°-60°)	757.7	32.4			
FH	(60°-80°)	542.0	23.2			G0/660
FVH	(80°-90°)	103.2	4.4			G2/225
BL	(0°-30°)	54.5	2.3	B0/110		
BM	(30°-60°)	301.8	12.9	B1/1000		
BH	(60°-80°)	269.8	11.5	B1/500		G1/500
BVH	(80°-90°)	68.6	2.9			G1/100
UL	(90°-100°)	74.7	3.2		U3/500	
UH	(100°-180°)	63.5	2.7		U3/500	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	97.1	97.4	97.4	96.9	96.3	95.1	94.0	92.6	90.6	90.3	88.9
5°	108.6	108.9	108.6	107.5	106.4	104.4	102.2	99.6	96.3	96.0	93.4
7.5°	122.8	123.1	122.8	120.8	118.9	116.0	112.9	109.3	104.4	103.6	100.2
10°	140.3	140.9	140.0	138.3	134.9	130.7	126.7	121.4	116.3	114.4	110.1
12.5°	162.6	162.6	160.9	158.4	154.2	148.7	143.7	137.2	131.6	128.7	124.2
15°	187.4	187.7	185.5	182.4	177.9	169.7	164.0	157.2	150.2	147.6	141.2
17.5°	215.9	216.6	213.7	209.2	203.0	194.8	187.7	179.8	171.7	167.4	160.6
20°	249.3	249.3	246.1	240.2	232.3	223.3	214.3	205.2	196.2	191.1	184.0
22.5°	287.1	287.1	283.5	275.5	264.2	254.3	244.5	234.4	224.4	219.1	210.0
25°	330.8	332.6	325.5	315.6	302.9	289.1	279.2	267.3	256.7	250.7	240.8
27.5°	380.2	381.2	372.4	357.7	341.3	326.9	315.9	305.1	293.3	287.1	275.3
30°	433.3	431.7	423.7	406.2	384.7	367.2	356.3	346.4	332.9	328.1	315.1
32.5°	490.4	489.3	479.0	455.1	431.9	410.7	398.8	392.7	379.1	373.8	360.0
35°	550.4	548.5	536.3	511.3	480.8	457.6	446.9	443.8	431.4	426.0	409.4
37.5°	613.5	609.0	593.7	561.8	530.2	505.6	500.8	496.3	488.2	482.4	462.7
40°	663.7	661.7	646.5	613.2	579.0	558.4	555.3	558.4	550.4	544.0	521.1
42.5°	704.3	703.0	690.8	658.1	623.9	605.0	608.3	618.5	616.0	609.5	584.1
45°	732.5	731.2	722.4	694.2	662.9	649.1	664.3	682.9	684.6	679.2	649.3
47.5°	742.5	741.6	736.8	716.2	692.2	688.9	719.0	748.4	755.4	750.9	717.1
50°	729.8	730.3	732.0	722.7	708.0	717.6	762.2	810.8	826.0	820.9	784.8
52.5°	697.0	699.0	707.2	710.2	708.0	732.5	798.3	867.3	893.2	887.5	850.3
55°	646.7	649.6	664.0	680.1	691.6	731.4	820.9	914.9	952.2	948.3	909.6
57.5°	580.7	586.4	605.8	634.3	657.8	713.9	827.5	947.7	1000.4	997.7	960.1
60°	507.6	512.4	539.2	576.4	610.3	679.8	813.3	961.8	1033.2	1034.1	998.5
62.5°	435.1	440.4	472.0	510.7	553.9	630.6	779.7	953.3	1046.8	1051.0	1020.3
63°	420.9	426.3	457.9	497.5	542.1	619.7	770.7	948.6	1046.8	1051.6	1021.6
65°	366.1	371.2	402.5	443.8	490.9	571.6	726.9	920.3	1035.5	1042.8	1019.4
67.5°	302.4	307.7	339.3	380.0	425.4	503.9	658.1	862.1	996.8	1010.1	995.1
70°	248.5	254.1	282.8	321.3	363.6	435.1	579.3	784.0	934.7	949.1	943.5
72.5°	204.7	209.5	237.7	269.9	307.7	371.2	498.6	689.7	845.8	863.3	866.6
75°	167.2	172.2	197.0	225.9	259.1	312.5	420.3	590.0	735.7	760.0	769.6
77.5°	136.4	141.2	163.2	188.3	216.6	260.2	348.3	491.2	622.8	652.1	664.5
80°	111.2	115.7	133.8	156.7	180.7	215.9	285.4	395.8	511.0	537.5	550.4
82.5°	90.3	94.3	110.1	130.1	150.5	179.0	232.9	316.7	408.3	430.6	437.6
85°	72.8	76.2	90.3	107.8	125.1	147.1	188.3	250.4	319.3	336.8	345.6
87.5°	58.1	61.0	73.7	88.9	103.6	123.7	152.4	199.6	247.0	260.0	265.7
90°	47.2	49.4	59.8	72.8	86.1	100.8	123.7	155.3	190.0	199.3	203.3
92.5°	38.4	40.1	49.4	60.1	72.0	85.2	100.8	122.8	146.3	152.4	155.0
95°	32.2	32.7	40.9	50.2	59.8	71.1	82.4	97.7	112.9	117.1	118.3
97.5°	26.3	27.1	34.2	42.7	50.8	59.3	67.5	78.2	87.8	90.3	90.6
100°	22.6	22.9	28.7	36.4	43.5	50.2	56.2	62.7	68.3	69.2	69.8
102.5°	19.2	19.4	24.6	31.6	37.5	43.2	47.7	51.4	53.6	53.9	53.9
105°	16.7	17.0	21.2	27.4	32.7	37.0	40.6	42.0	42.7	42.4	42.4
107.5°	14.9	14.9	18.6	24.0	28.7	32.4	34.7	35.0	34.2	33.6	33.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	13.3	13.5	16.4	21.5	25.7	28.5	30.2	29.4	27.6	27.1	27.1
112.5°	12.2	12.4	14.4	18.9	22.6	25.4	26.3	24.9	22.6	22.0	22.3
115°	11.3	11.3	13.0	16.7	20.4	22.6	22.9	21.2	18.6	18.3	18.6
117.5°	10.4	10.4	11.6	14.9	18.1	20.0	20.0	18.1	15.9	15.2	15.5
120°	9.9	9.9	10.7	13.3	16.1	17.8	17.5	15.5	13.3	13.3	13.5
122.5°	9.3	9.3	9.9	11.9	14.4	15.9	15.5	13.3	11.3	11.3	11.6
125°	8.8	8.8	9.0	10.7	12.7	13.8	13.5	11.3	9.9	9.9	10.1
127.5°	8.2	8.2	8.5	9.6	11.3	12.2	11.6	9.6	8.8	8.8	9.0
130°	7.9	7.9	7.9	8.5	9.9	10.7	9.9	8.2	7.7	7.7	7.9
132.5°	7.4	7.4	7.4	7.7	8.5	9.0	8.5	7.1	6.8	6.8	7.1
135°	7.1	7.1	6.8	6.8	7.4	7.7	6.8	5.9	5.9	5.9	6.2
137.5°	6.4	6.4	6.2	5.9	6.2	6.2	5.6	4.8	5.1	5.1	5.3
140°	5.9	5.9	5.6	5.1	4.8	4.8	4.2	4.0	4.2	4.2	4.5
142.5°	5.1	5.1	4.8	4.2	3.7	3.4	3.1	3.1	3.4	3.4	3.7
145°	4.2	4.2	4.0	3.4	2.9	2.6	2.3	2.3	2.6	2.6	2.9
147.5°	3.4	3.4	3.1	2.6	1.9	1.4	1.4	1.7	1.9	1.9	1.9
150°	2.9	2.9	2.6	1.9	1.1	0.8	0.6	0.8	1.1	1.1	1.1
152.5°	1.9	1.9	1.7	1.1	0.8	0.3	0.3	0.6	0.8	0.8	0.8
155°	1.1	1.1	0.8	0.6	0.3	0.3	0.3	0.3	0.6	0.6	0.6
157.5°	0.6	0.6	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	88.4	87.8	86.3	85.0	83.9	83.0	82.4	81.6	81.3	81.0	81.0
5°	92.1	90.6	88.1	85.5	83.3	81.3	79.6	78.2	77.3	76.8	77.0
7.5°	98.0	95.7	92.1	88.1	84.4	81.6	79.1	77.3	75.9	75.1	75.1
10°	107.3	104.1	98.5	92.9	88.4	84.1	81.0	78.5	76.8	75.9	75.9
12.5°	120.5	116.6	108.6	100.8	94.5	88.9	85.0	82.4	81.8	81.0	81.0
15°	136.4	131.6	121.9	111.8	103.3	95.7	92.3	90.0	88.7	87.6	87.6
17.5°	155.0	148.7	136.7	124.2	113.8	105.9	100.2	97.1	95.4	94.5	94.5
20°	176.5	168.8	153.9	138.3	125.3	116.9	109.3	104.4	102.8	101.9	101.6
22.5°	201.3	192.0	173.9	154.5	139.2	127.9	118.9	111.8	109.9	108.9	108.4
25°	230.9	220.4	196.5	172.8	153.9	138.3	127.4	119.4	116.6	115.7	115.5
27.5°	264.2	251.5	222.2	193.1	167.7	147.6	134.6	126.4	122.8	121.6	121.9
30°	301.5	286.5	250.4	213.7	181.3	156.1	140.6	131.9	127.9	126.7	126.7
32.5°	343.0	323.3	281.2	235.5	194.0	163.2	145.7	136.7	131.9	130.9	130.9
35°	388.7	368.2	314.5	257.5	205.2	168.8	149.4	140.3	135.2	134.1	134.1
37.5°	441.2	414.1	349.7	278.7	214.8	173.1	151.9	142.6	137.5	135.7	135.7
40°	494.6	463.3	386.5	298.7	223.0	175.6	153.3	143.7	138.9	136.7	136.4
42.5°	553.0	513.8	424.0	317.0	228.6	177.0	153.5	144.5	139.4	136.7	136.1
45°	613.8	571.4	458.7	332.9	232.9	177.0	153.3	144.2	139.4	135.7	135.2
47.5°	674.9	627.0	494.9	346.1	234.9	176.2	152.7	143.9	139.2	134.6	134.1
50°	738.8	682.6	529.1	356.5	234.6	174.4	151.3	143.1	138.0	133.3	132.7
52.5°	798.6	733.7	560.4	363.9	232.9	172.0	149.7	142.3	137.2	131.9	131.2
55°	856.8	785.1	587.5	367.9	229.2	168.8	147.9	141.2	136.4	130.4	130.1
57.5°	903.7	828.3	608.7	367.5	223.8	164.9	146.0	139.7	135.2	129.6	129.0
60°	942.0	863.0	622.2	363.4	217.4	160.9	143.7	138.0	134.1	128.5	127.6
62.5°	964.6	882.5	625.5	354.2	209.5	156.4	140.6	135.5	132.2	127.1	126.2
63°	967.2	884.1	624.7	352.0	207.8	155.3	140.0	135.2	131.9	126.7	125.9
65°	966.3	883.6	616.5	340.4	200.4	150.8	137.2	132.7	129.8	125.1	124.2
67.5°	944.3	862.1	593.4	321.3	189.8	144.8	132.7	129.0	126.2	121.9	121.1
70°	896.6	816.4	554.4	297.3	177.9	138.0	127.1	124.2	121.4	117.4	116.3
72.5°	826.0	748.9	502.2	271.6	165.4	130.1	120.8	118.0	115.7	112.3	110.4
75°	734.0	663.4	441.8	242.7	151.9	121.9	113.2	111.0	108.1	105.1	103.3
77.5°	627.0	565.7	378.0	213.2	138.0	112.6	105.1	102.5	99.9	96.6	94.3
80°	518.8	467.5	314.8	184.3	124.2	102.8	96.0	93.7	90.6	87.0	84.7
82.5°	416.1	376.0	257.5	157.8	110.7	92.9	86.6	83.9	80.5	76.8	75.4
85°	324.9	295.5	207.5	133.8	97.4	83.0	77.3	74.6	70.3	66.1	64.3
87.5°	250.7	229.2	166.5	112.6	85.2	73.4	67.7	64.3	60.5	56.2	54.7
90°	192.2	177.6	133.3	94.8	74.3	63.8	59.3	56.2	51.7	47.5	46.3
92.5°	147.4	137.5	107.0	79.9	63.5	55.9	52.0	48.6	44.1	39.8	39.0
95°	113.2	106.7	86.3	66.9	55.0	48.8	45.4	41.7	37.2	33.3	32.4
97.5°	87.8	83.3	69.8	56.5	47.7	42.7	39.8	36.1	31.6	27.9	27.4
100°	68.0	65.2	56.8	47.5	41.5	37.2	34.5	31.3	27.1	23.1	23.1
102.5°	53.1	51.4	46.5	40.6	36.1	33.0	30.5	27.1	22.9	19.7	19.4
105°	42.0	41.2	38.4	34.7	31.6	29.1	26.8	23.4	19.4	16.7	16.7
107.5°	33.6	33.3	31.9	29.7	27.6	25.7	23.7	20.4	16.7	14.4	14.4



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CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-FL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	27.4	27.4	26.8	25.4	24.2	22.6	20.6	17.8	14.1	12.4	12.4
112.5°	22.6	22.9	22.6	22.0	21.5	20.0	18.3	15.2	12.2	11.0	11.0
115°	18.9	19.2	19.2	19.2	18.9	17.8	16.1	13.3	10.4	9.6	9.6
117.5°	16.1	16.4	16.7	16.7	16.4	15.5	14.1	11.6	9.0	8.5	8.8
120°	13.8	14.1	14.4	14.7	14.4	13.8	12.2	9.9	7.9	7.7	7.7
122.5°	12.2	12.4	12.4	12.7	12.7	12.2	10.7	8.5	6.8	6.8	6.8
125°	10.4	10.7	11.0	11.0	11.3	10.4	9.0	7.1	5.9	5.9	6.2
127.5°	9.3	9.3	9.3	9.6	9.6	9.0	7.9	5.9	5.1	5.3	5.3
130°	8.2	8.2	8.5	8.5	8.5	7.9	6.4	5.1	4.5	4.8	4.8
132.5°	7.1	7.4	7.4	7.1	7.1	6.8	5.3	4.2	4.0	4.2	4.2
135°	6.2	6.4	6.4	5.9	5.9	5.3	4.5	3.4	3.7	3.7	4.0
137.5°	5.3	5.6	5.3	5.1	4.8	4.5	3.7	2.9	3.1	3.4	3.4
140°	4.5	4.5	4.5	4.2	4.0	3.4	2.9	2.3	2.9	2.9	2.9
142.5°	3.7	3.7	3.7	3.4	2.9	2.6	1.9	1.9	2.3	2.3	2.3
145°	2.9	2.9	2.9	2.6	1.9	1.7	1.4	1.4	1.7	1.9	1.9
147.5°	1.9	1.9	1.9	1.7	1.1	0.8	0.8	1.1	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.1	0.8	0.6	0.6	0.8	0.8	1.1	1.1
152.5°	0.8	1.1	1.1	0.8	0.6	0.3	0.3	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.8	0.6	0.6	0.3	0.0	0.0	0.3	0.3	0.3
157.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	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)