

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: P254904

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T4W-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)
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-T4W-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2315 lumens
Efficiency: N/A
Efficacy: 110.2 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: B1 - U3 - G2

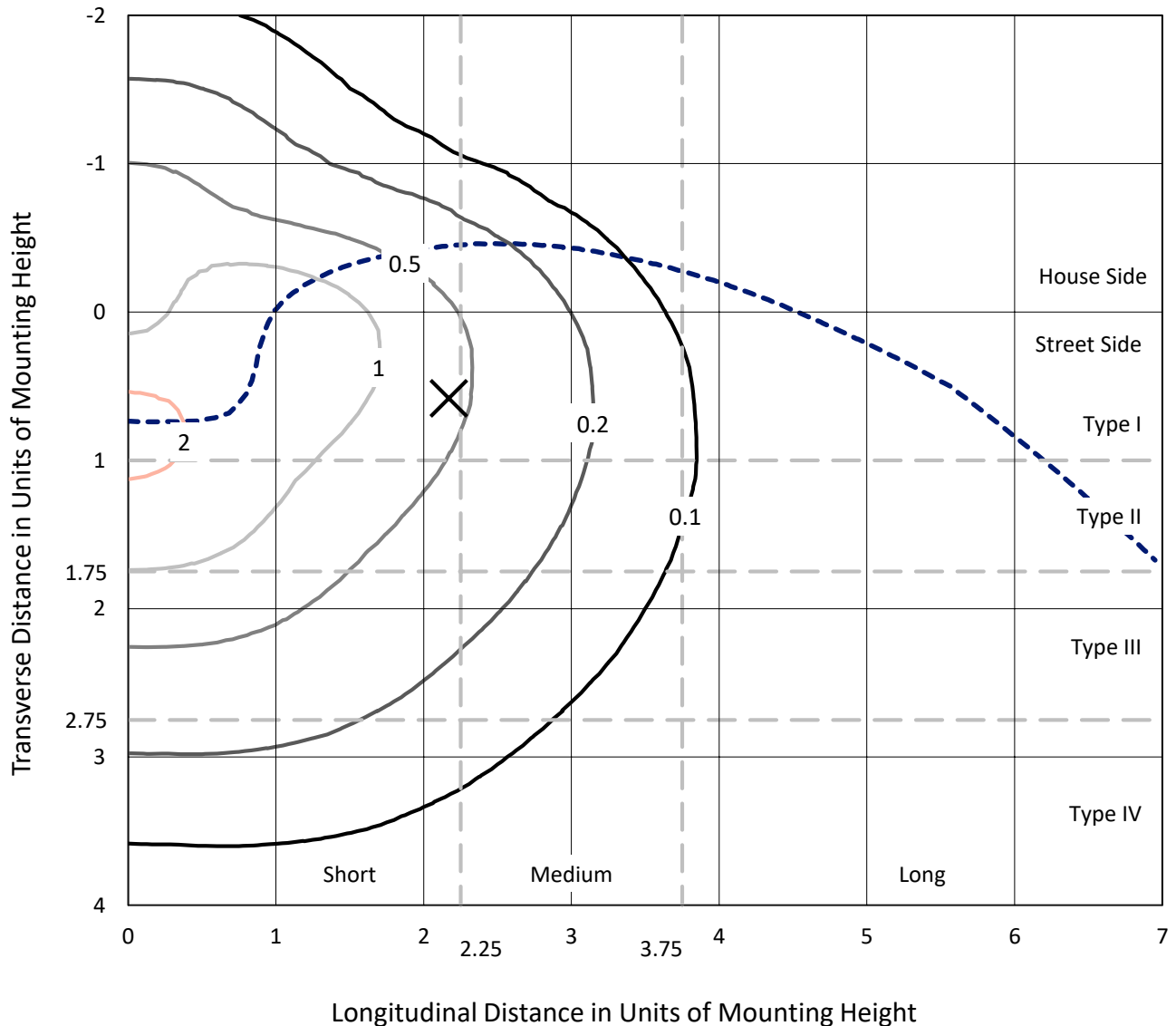
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

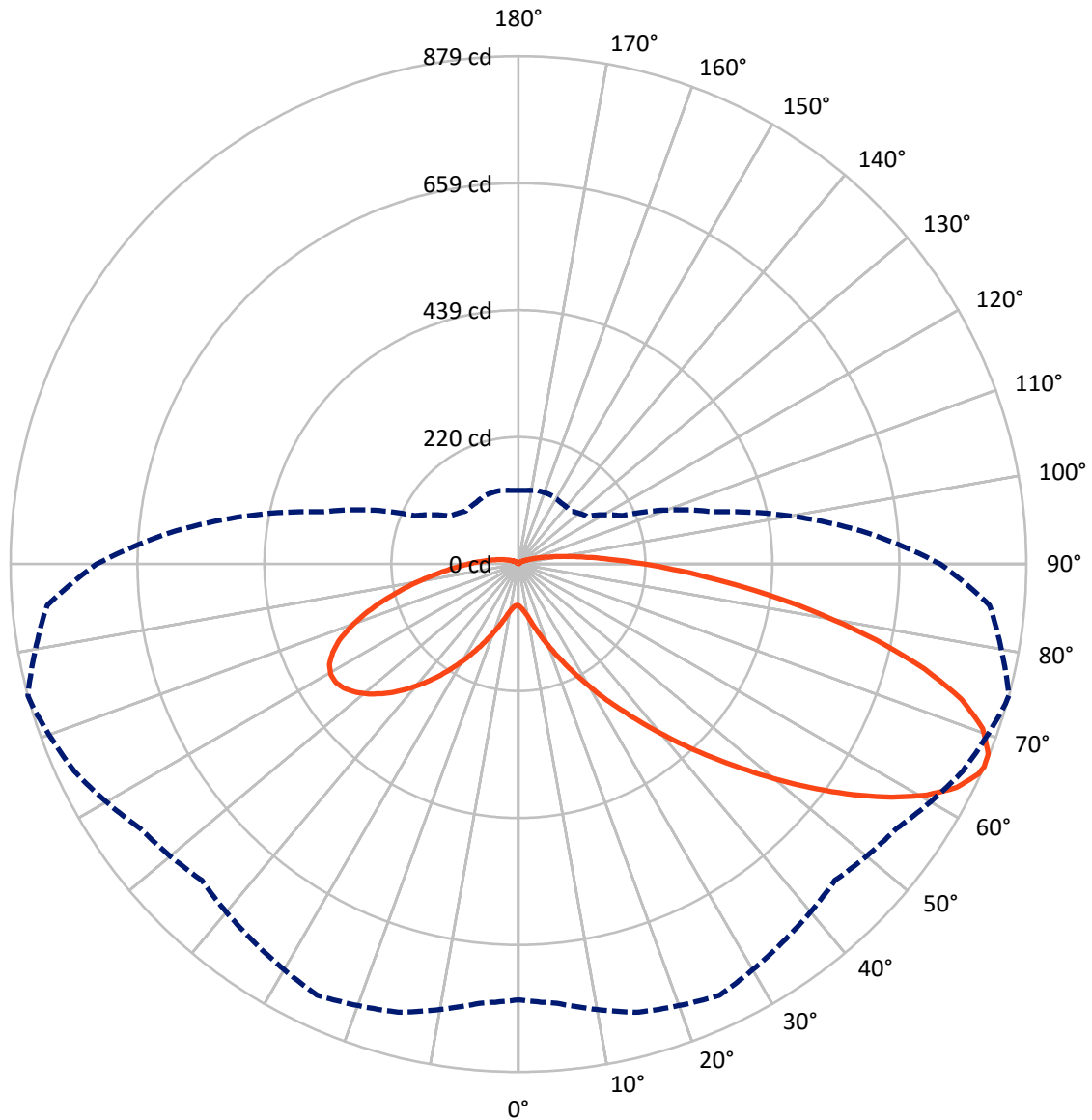
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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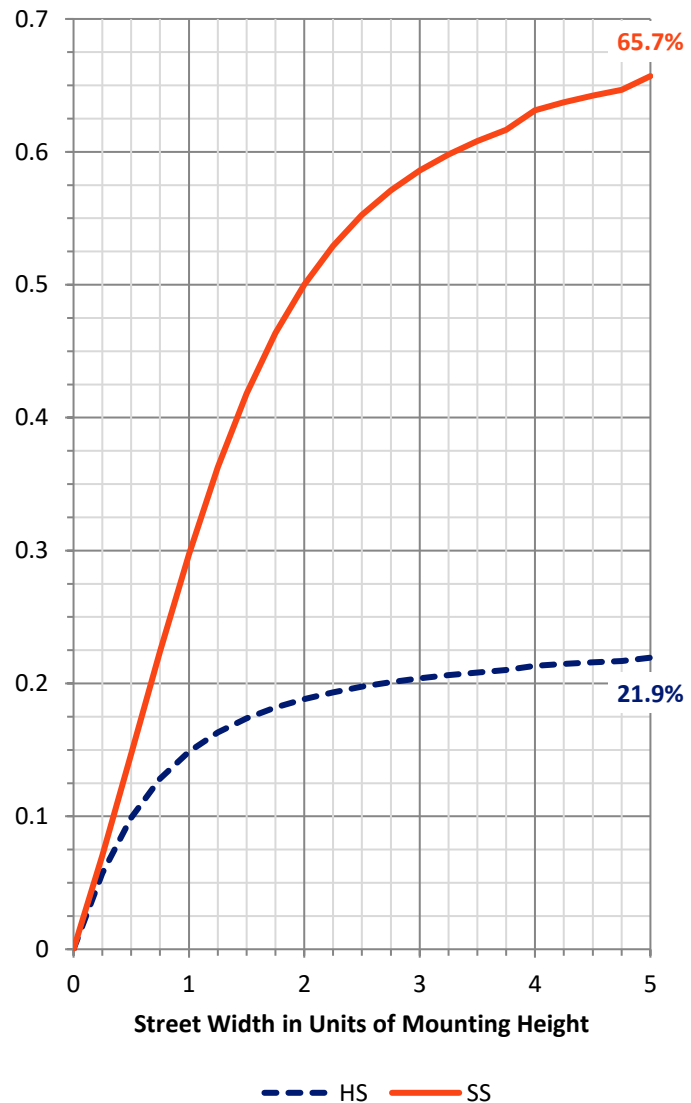
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.4	57.8	594.3
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	1608.6	112.1	1720.7
	% Fixture	69.5	4.8	74.3
Total	Lumens	2145.0	170.0	2315.0
	% Fixture	92.7	7.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.3
10°-20°	32.1	1.4
20°-30°	81.1	3.5
30°-40°	162.3	7.0
40°-50°	275.9	11.9
50°-60°	410.6	17.7
60°-70°	504.1	21.8
70°-80°	433.5	18.7
80°-90°	237.7	10.3
90°-100°	99.2	4.3
100°-110°	40.5	1.8
110°-120°	17.9	0.8
120°-130°	8.1	0.4
130°-140°	3.4	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2145.0	92.7
0°-180°	2315.0	100.0



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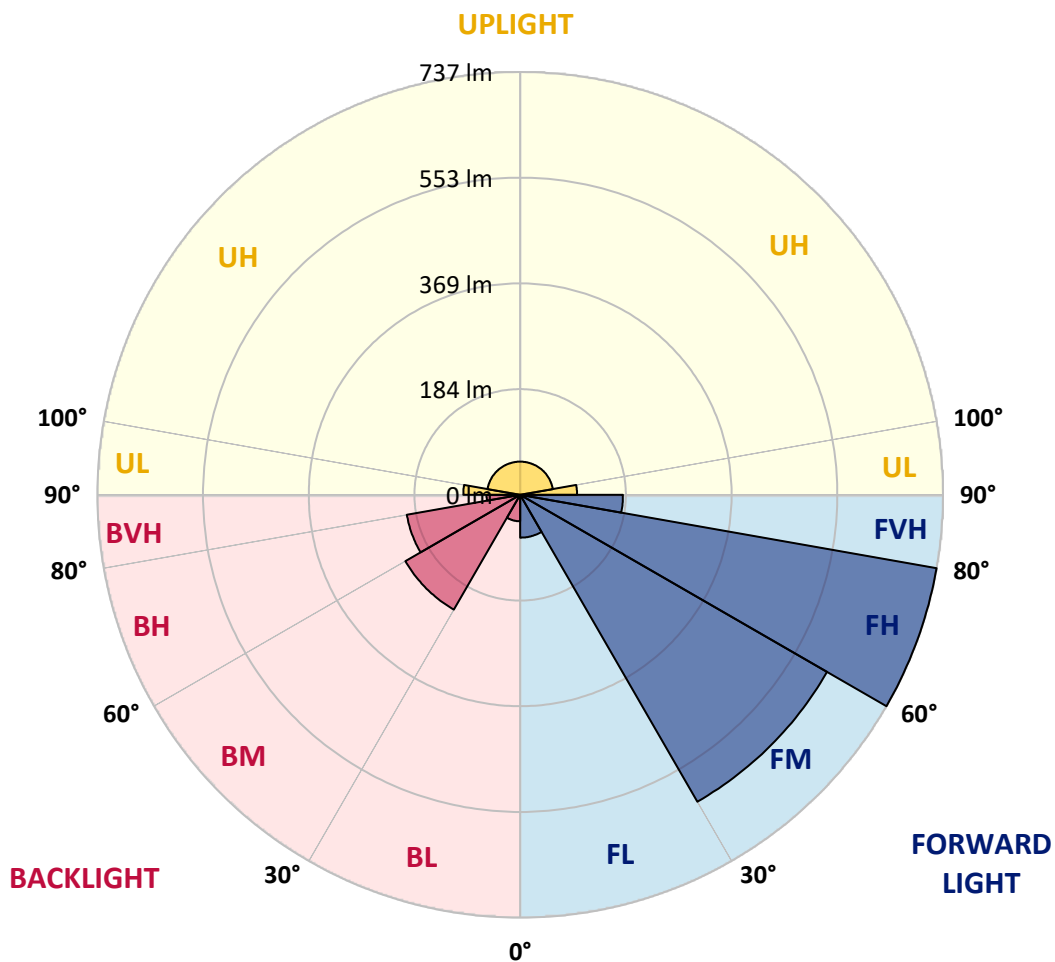
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.7	3.2			
FM	(30°-60°)	617.7	26.7			
FH	(60°-80°)	737.1	31.8			G1/1800
FVH	(80°-90°)	179.1	7.7			G2/225
BL	(0°-30°)	46.2	2.0	B0/110		
BM	(30°-60°)	231.1	10.0	B1/1000		
BH	(60°-80°)	200.6	8.7	B1/500		G1/500
BVH	(80°-90°)	58.6	2.5			G1/100
UL	(90°-100°)	99.2	4.3		U3/500	
UH	(100°-180°)	57.8	2.5		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	79.6	79.6	79.3	79.3	78.5	77.6	77.0	75.7	74.8	74.8	73.7
5°	88.1	88.1	87.8	87.3	86.1	84.7	83.0	81.0	79.3	79.1	77.0
7.5°	98.5	98.5	98.0	96.9	95.1	93.2	90.9	88.1	85.5	85.0	82.1
10°	111.5	111.5	110.7	108.9	106.7	104.1	101.1	97.1	93.7	93.4	89.5
12.5°	127.9	127.1	126.4	123.7	120.5	117.1	113.4	108.6	105.3	105.3	99.9
15°	146.5	146.5	144.2	140.6	136.7	132.1	128.2	123.4	119.4	119.2	112.9
17.5°	167.2	166.8	164.3	159.8	154.4	149.9	144.8	139.4	134.9	134.9	127.6
20°	190.8	190.3	186.9	181.0	174.4	169.4	163.8	157.5	152.7	152.7	144.5
22.5°	217.9	216.8	212.6	204.4	197.8	190.6	184.0	177.8	172.8	173.3	164.0
25°	248.4	247.0	241.6	231.2	221.9	213.1	206.6	200.1	196.5	195.1	187.4
27.5°	282.8	280.0	274.0	260.9	247.6	236.8	230.1	225.3	221.9	220.8	212.0
30°	320.7	317.8	309.6	293.0	275.5	262.0	255.4	251.7	250.1	248.7	240.0
32.5°	363.9	360.8	349.4	328.6	306.0	289.1	282.8	281.1	281.1	280.0	271.3
35°	410.7	406.7	393.2	366.9	338.5	318.1	312.2	313.0	313.3	312.5	305.1
37.5°	460.6	456.4	440.4	409.1	373.5	349.1	343.3	347.2	352.8	349.7	342.2
40°	512.1	508.1	490.9	452.8	410.2	381.7	375.7	383.6	392.6	390.2	381.7
42.5°	563.1	561.5	539.7	499.1	449.4	415.8	411.5	423.7	436.1	434.4	425.1
45°	618.8	613.7	592.5	547.1	491.4	455.3	450.5	466.9	483.9	482.1	472.8
47.5°	668.7	663.9	643.8	595.7	533.8	494.6	491.4	513.5	534.9	533.0	523.6
50°	710.7	710.2	693.3	643.3	578.4	535.5	535.2	562.8	589.1	588.6	576.7
52.5°	751.2	750.3	734.8	689.6	623.0	576.7	579.0	615.1	646.4	646.4	630.6
55°	782.3	781.9	772.8	733.7	667.1	622.5	628.9	668.7	704.6	704.6	688.8
57.5°	803.9	803.6	802.5	772.6	709.4	665.9	676.1	721.5	760.5	761.3	740.4
60°	809.1	811.6	822.9	803.9	747.2	705.4	719.2	770.1	810.2	811.6	783.1
62.5°	799.9	803.9	826.9	822.9	776.0	741.0	758.2	810.5	849.2	851.4	812.1
65°	770.1	778.3	813.2	826.2	794.0	767.0	789.8	839.7	872.0	875.0	821.4
66°	754.0	762.7	802.8	823.2	798.0	774.3	798.3	848.0	876.8	878.7	818.4
67.5°	723.5	732.2	779.7	811.0	798.0	781.3	805.4	853.7	876.0	876.8	807.3
70°	658.0	671.6	724.7	773.1	781.6	777.6	805.1	845.2	855.3	852.5	765.3
72.5°	586.0	593.6	651.8	717.8	746.3	754.0	785.3	813.2	806.5	802.2	702.1
75°	491.4	502.5	566.0	641.4	684.9	708.3	741.8	751.8	734.8	725.8	618.8
77.5°	410.4	414.9	474.2	551.6	608.9	640.8	672.4	675.5	640.5	632.9	521.9
80°	326.3	330.8	385.3	459.5	521.7	563.7	591.4	583.2	539.2	531.8	431.6
82.5°	254.9	261.2	302.9	373.8	433.8	478.2	499.4	486.1	444.3	433.8	343.8
85°	195.6	198.8	237.6	298.7	351.7	392.1	409.6	395.0	350.1	341.9	270.2
87.5°	149.0	152.1	185.2	233.1	280.0	314.5	328.1	309.3	272.9	267.6	209.7
90°	113.8	116.0	142.3	183.5	219.6	248.2	257.5	242.7	210.3	205.5	161.4
92.5°	87.3	89.2	109.6	142.3	172.0	196.2	200.1	186.3	161.2	156.9	124.2
95°	66.9	69.2	85.5	111.2	134.4	152.7	155.5	143.7	123.7	120.3	95.6
97.5°	52.5	53.4	67.2	88.1	107.0	119.7	120.8	111.8	94.5	92.3	73.7
100°	42.0	42.7	53.4	69.8	85.2	94.5	95.1	85.8	72.5	70.9	56.5
102.5°	34.2	34.7	42.9	56.2	67.7	75.4	75.1	67.7	56.2	53.9	44.0
105°	28.2	28.5	35.0	45.7	55.0	60.1	59.8	52.8	43.2	41.7	34.5
107.5°	23.7	24.0	28.7	37.2	45.2	49.4	48.6	41.5	33.6	32.7	27.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	20.0	20.4	24.0	31.1	38.2	40.9	39.8	33.0	26.5	25.4	22.0
112.5°	17.5	17.5	20.4	26.0	31.9	34.5	32.7	26.8	20.9	20.4	18.1
115°	15.2	15.5	17.5	22.0	27.1	28.7	27.1	21.5	17.0	16.4	14.9
117.5°	13.5	13.5	15.2	18.6	22.9	24.0	22.3	17.5	13.8	13.5	12.7
120°	12.2	12.2	13.3	15.9	19.2	20.4	18.6	14.4	11.3	11.0	10.7
122.5°	11.0	11.0	11.6	13.5	16.4	17.0	15.2	11.9	9.6	9.3	9.3
125°	9.9	9.9	10.1	11.6	13.8	14.4	12.7	9.6	8.2	7.9	7.9
127.5°	9.0	9.0	9.0	10.1	11.3	11.9	10.4	7.9	6.8	6.8	7.1
130°	8.2	8.2	8.2	8.5	9.3	9.6	8.5	6.4	5.9	5.9	5.9
132.5°	7.4	7.4	7.1	7.4	7.7	7.7	6.4	5.3	5.1	5.1	5.3
135°	6.4	6.4	6.2	6.2	6.2	5.9	5.1	4.2	4.2	4.2	4.5
137.5°	5.6	5.6	5.3	5.1	4.8	4.2	3.7	3.4	3.4	3.4	3.7
140°	4.8	4.8	4.5	4.0	3.4	3.1	2.6	2.6	2.9	2.9	2.9
142.5°	3.7	3.7	3.4	3.1	2.6	1.9	1.7	1.7	1.9	1.9	2.3
145°	2.9	2.9	2.6	1.9	1.4	1.1	0.8	1.1	1.4	1.4	1.7
147.5°	1.9	1.9	1.7	1.4	0.8	0.3	0.6	0.8	1.1	1.1	1.4
150°	1.1	1.1	0.8	0.6	0.0	0.0	0.3	0.6	0.8	0.8	0.8
152.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	73.1	72.5	71.4	70.6	69.5	68.8	68.3	67.7	67.5	66.9	66.9
5°	75.7	74.8	72.8	71.1	69.2	67.7	66.3	65.5	65.0	64.7	64.7
7.5°	80.4	79.1	75.9	73.3	70.6	68.8	67.2	65.5	64.7	64.3	64.3
10°	87.3	85.5	81.3	77.6	74.0	71.4	69.8	67.7	66.9	66.3	66.3
12.5°	97.1	94.3	89.2	83.9	79.1	75.9	73.7	72.2	72.2	72.8	72.5
15°	109.6	106.4	99.1	92.3	85.8	81.5	80.2	79.9	79.9	80.2	80.2
17.5°	123.1	118.9	110.4	101.6	94.0	89.8	88.1	87.5	87.5	87.8	88.4
20°	139.4	134.1	123.4	112.1	103.8	98.8	96.3	95.4	96.0	97.1	97.1
22.5°	158.4	152.4	138.0	123.7	114.1	107.5	104.4	103.6	104.8	106.2	106.4
25°	180.1	172.2	154.2	136.4	123.9	115.7	112.6	111.5	113.2	114.9	115.7
27.5°	204.1	194.0	171.7	149.0	132.7	122.8	119.4	119.2	121.4	123.7	124.5
30°	230.7	218.2	190.3	162.3	141.7	129.0	125.3	126.1	128.7	131.6	132.1
32.5°	259.9	245.3	209.7	175.3	148.7	133.8	129.6	131.6	134.6	138.3	138.9
35°	291.8	274.0	230.4	187.4	155.0	137.5	133.2	135.7	139.1	143.1	143.7
37.5°	326.6	304.8	250.9	198.1	159.8	139.7	135.2	138.3	142.3	146.0	146.5
40°	362.7	336.8	271.6	207.8	163.2	141.2	136.1	139.4	143.4	146.2	146.8
42.5°	403.7	371.2	291.6	215.3	165.1	141.5	136.1	139.1	143.1	145.1	145.4
45°	447.1	407.6	311.4	221.6	166.0	141.2	135.2	138.6	141.7	142.6	142.8
47.5°	492.3	444.9	329.2	225.3	166.0	140.0	134.1	136.7	139.1	138.9	139.1
50°	542.6	483.9	345.8	227.5	164.9	138.6	133.0	134.9	136.7	135.2	135.5
52.5°	589.9	522.5	359.4	228.3	162.9	136.9	131.9	133.5	134.4	132.4	132.4
55°	637.1	558.9	370.3	226.7	160.3	135.5	130.9	132.7	132.7	130.1	130.1
57.5°	680.9	589.9	376.5	223.3	157.2	134.4	130.4	132.1	132.1	128.7	128.7
60°	714.7	612.2	376.9	217.9	153.5	133.0	130.1	132.1	131.9	128.5	128.2
62.5°	735.3	622.2	370.3	210.3	149.9	131.6	129.8	131.9	131.9	128.2	127.9
65°	735.3	615.6	356.2	201.3	145.7	129.8	129.3	131.9	131.2	127.9	127.4
66°	729.7	608.6	348.6	197.3	144.2	129.3	129.0	131.9	131.2	127.9	127.1
67.5°	714.2	591.7	336.2	190.8	140.9	127.9	128.5	130.9	130.7	127.1	126.4
70°	669.0	547.9	309.3	179.2	135.7	125.3	126.7	129.0	128.7	125.3	124.2
72.5°	602.7	490.3	278.9	166.8	130.1	121.9	123.7	125.9	125.3	122.5	121.4
75°	524.5	425.1	245.9	153.5	123.4	117.4	119.4	121.4	120.8	118.3	116.6
77.5°	440.1	357.9	213.1	139.7	116.3	111.8	113.8	115.7	114.6	112.3	111.2
80°	357.4	293.0	182.1	125.9	108.1	105.3	107.3	107.8	107.0	105.1	103.6
82.5°	285.1	235.7	152.7	112.3	99.3	97.7	99.1	99.1	98.2	96.3	94.8
85°	223.8	188.0	128.5	98.8	90.6	89.5	90.3	89.5	88.4	86.3	85.2
87.5°	176.5	150.8	107.5	87.0	81.0	80.7	81.0	79.1	77.9	76.2	75.1
90°	137.8	118.3	89.8	75.7	72.2	72.0	71.4	69.5	66.9	65.2	64.3
92.5°	107.5	95.1	74.3	64.7	62.9	62.7	61.8	59.2	57.6	55.3	54.5
95°	85.2	75.9	61.6	55.9	55.0	54.7	53.6	50.8	48.6	46.3	45.7
97.5°	66.9	60.1	51.4	48.0	47.7	47.5	46.0	42.9	40.4	38.2	37.8
100°	52.5	48.3	42.9	41.2	41.2	40.9	39.5	36.4	33.3	31.1	30.8
102.5°	41.7	39.0	35.8	35.3	35.3	35.0	33.6	31.1	27.4	24.9	24.9
105°	33.3	31.6	30.0	30.2	30.5	30.2	28.7	25.7	22.0	20.0	20.0
107.5°	26.8	25.7	25.2	25.7	26.0	26.0	24.6	21.2	17.8	16.1	16.1



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CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T4W-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.7	21.2	21.2	21.7	22.3	22.3	20.6	17.8	14.4	13.0	13.0
112.5°	17.8	17.5	17.8	18.9	19.2	18.9	17.5	14.6	11.6	10.7	10.7
115°	14.9	14.9	15.2	16.1	16.7	16.1	14.6	11.9	9.3	8.8	8.8
117.5°	12.7	12.7	13.0	13.8	14.1	13.5	12.2	9.6	7.7	7.4	7.4
120°	10.7	10.7	11.0	11.6	11.9	11.3	9.9	7.9	6.2	5.9	6.2
122.5°	9.3	9.3	9.6	9.9	10.1	9.6	8.2	6.2	5.1	5.1	5.1
125°	8.2	8.2	8.2	8.5	8.5	7.9	6.8	5.1	4.0	4.2	4.2
127.5°	7.1	7.1	7.1	7.1	7.1	6.4	5.3	4.0	3.4	3.7	3.7
130°	6.2	6.2	5.9	5.9	5.6	5.3	4.2	3.1	2.9	3.1	3.1
132.5°	5.3	5.3	5.1	4.8	4.5	4.2	3.4	2.3	2.3	2.6	2.6
135°	4.5	4.5	4.2	4.0	3.7	3.1	2.3	1.7	1.7	1.9	1.9
137.5°	3.7	3.7	3.4	3.1	2.6	2.3	1.7	1.1	1.4	1.7	1.7
140°	2.9	2.9	2.6	2.3	1.7	1.1	0.8	0.8	0.8	1.1	1.1
142.5°	2.3	2.3	1.9	1.4	0.8	0.6	0.3	0.3	0.6	0.8	0.8
145°	1.7	1.7	1.4	1.1	0.6	0.3	0.0	0.0	0.3	0.3	0.3
147.5°	1.4	1.1	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	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)