

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: P254472

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254472
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-AF24-20-D-U-T2U-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA 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: 2349.7 lumens
Efficiency: N/A
Efficacy: 111.9 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 - U2 - G1

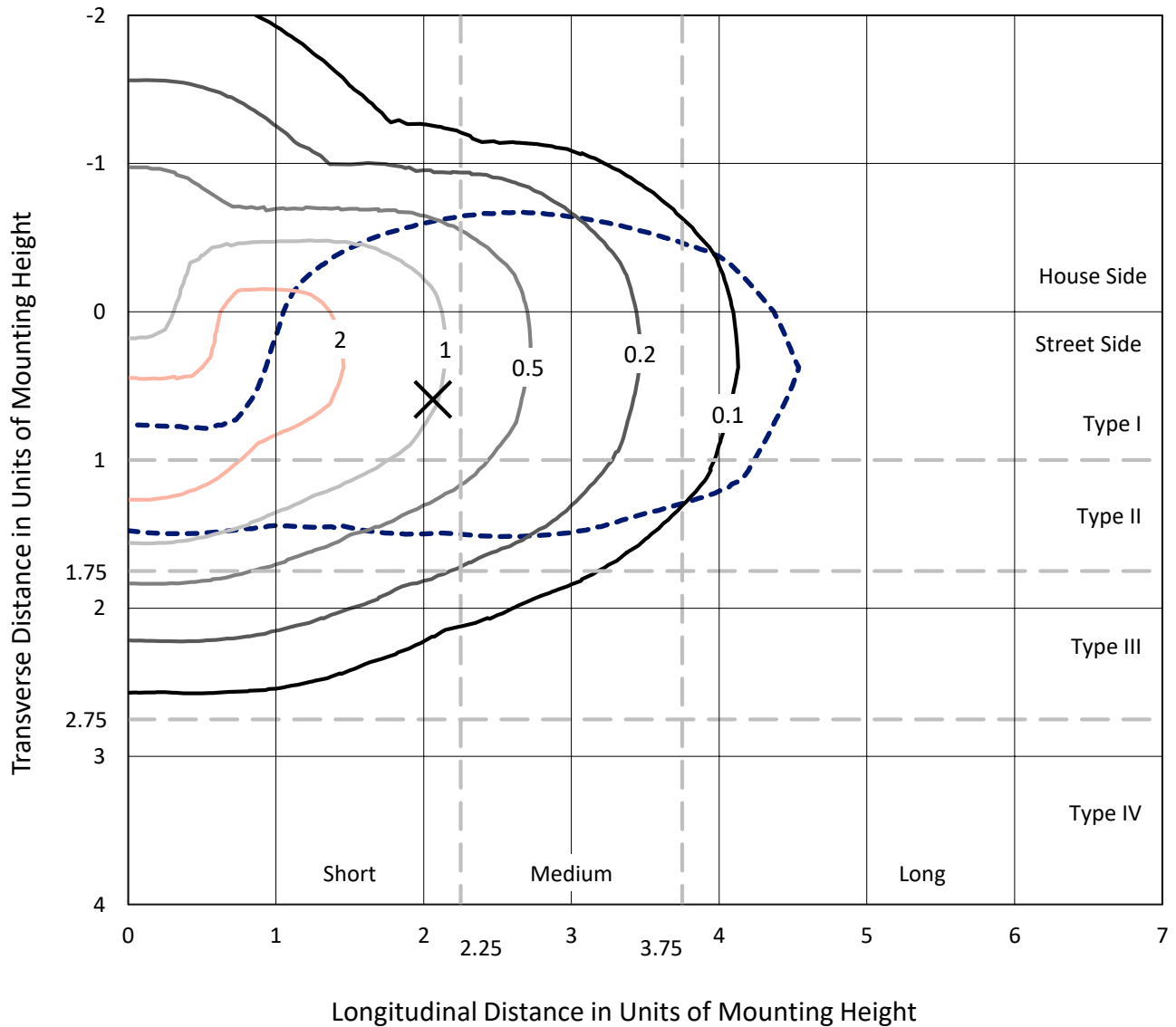
Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

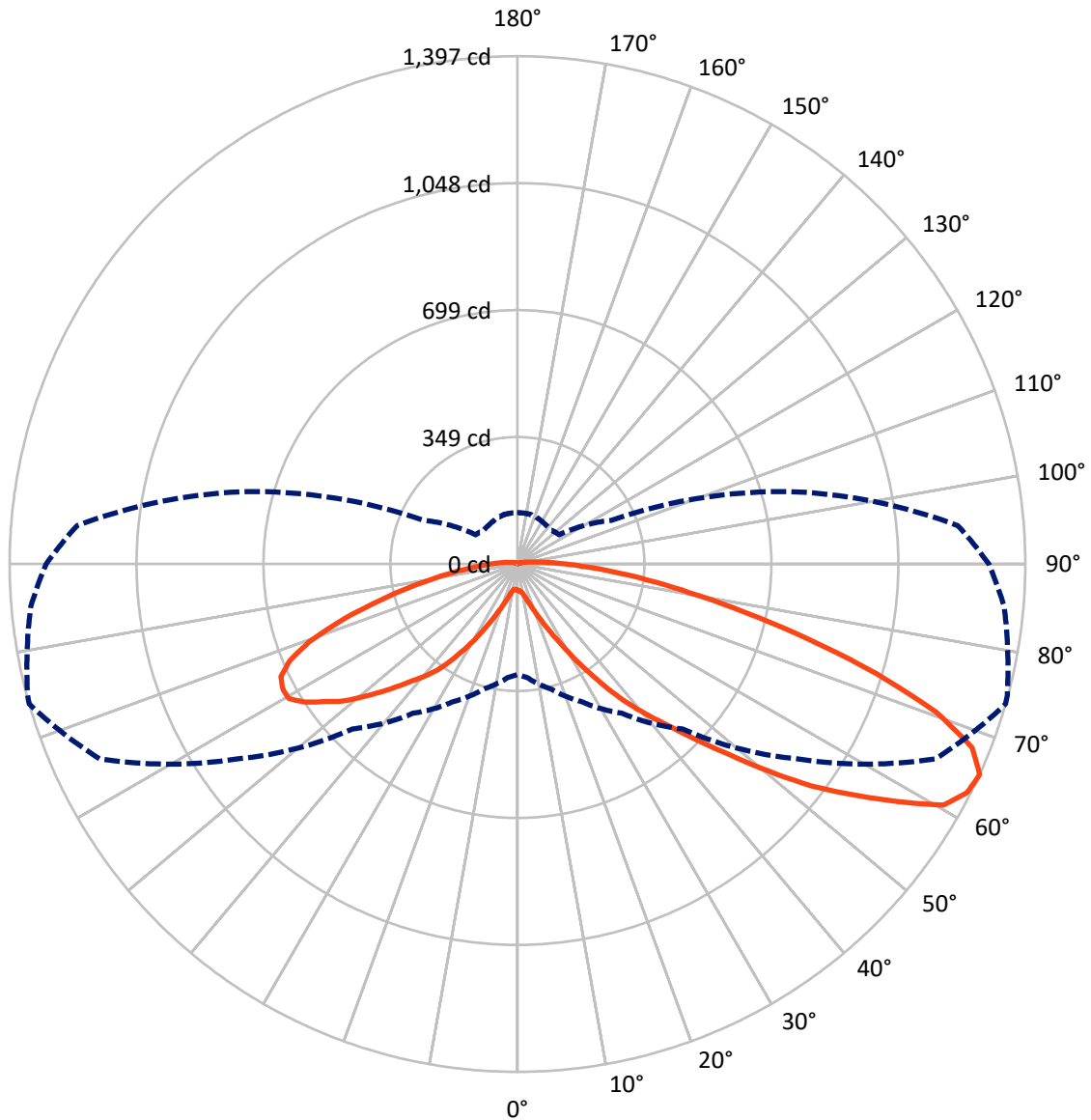


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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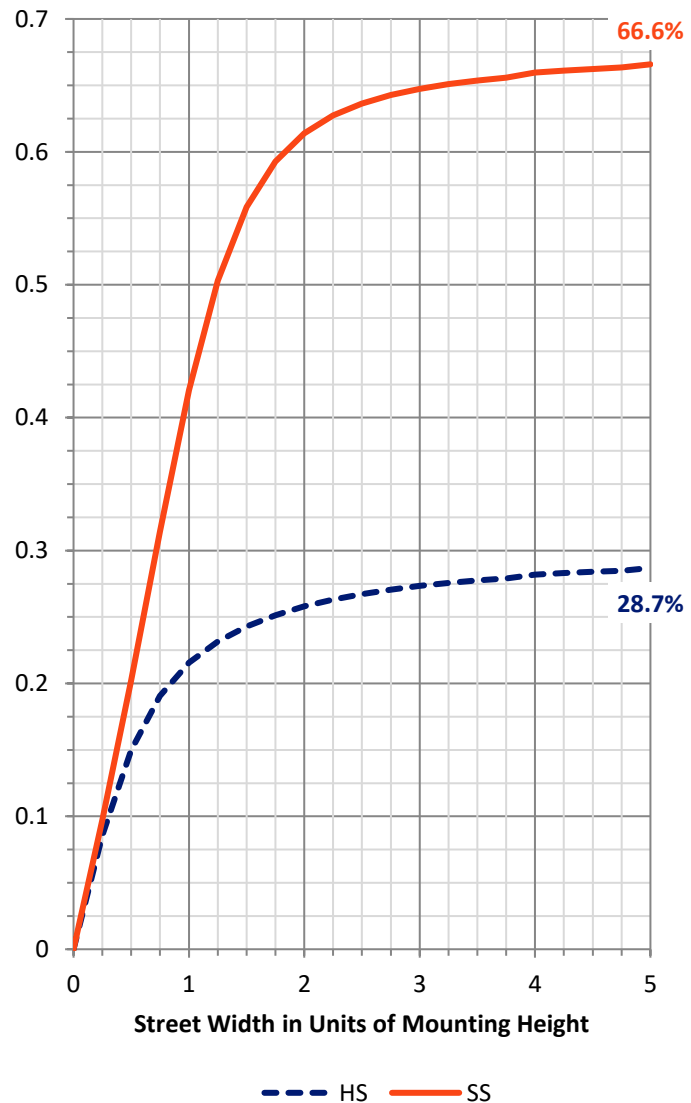
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.8	34.0	728.8
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	1586.3	34.6	1620.9
	% Fixture	67.5	1.5	69.0
Total	Lumens	2281.1	68.6	2349.7
	% Fixture	97.1	2.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.3
10°-20°	29.5	1.3
20°-30°	86.9	3.7
30°-40°	212.0	9.0
40°-50°	387.1	16.5
50°-60°	550.8	23.4
60°-70°	554.5	23.6
70°-80°	328.3	14.0
80°-90°	124.9	5.3
90°-100°	39.4	1.7
100°-110°	14.9	0.6
110°-120°	7.1	0.3
120°-130°	4.1	0.2
130°-140°	2.3	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°	2281.1	97.1
0°-180°	2349.7	100.0



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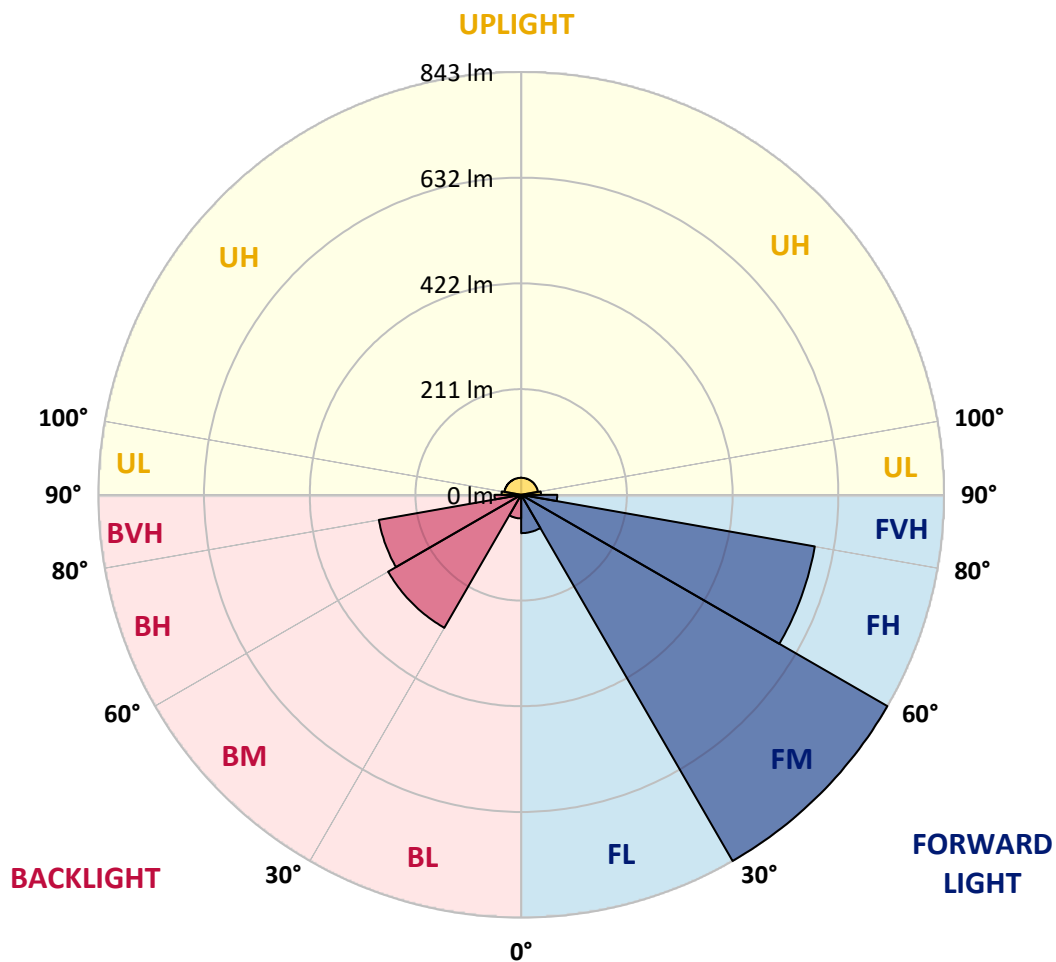
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.5	3.3			
FM	(30°-60°)	843.3	35.9			
FH	(60°-80°)	594.6	25.3			G0/660
FVH	(80°-90°)	71.9	3.1			G1/100
BL	(0°-30°)	47.1	2.0	B0/110		
BM	(30°-60°)	306.5	13.0	B1/1000		
BH	(60°-80°)	288.2	12.3	B1/500		G1/500
BVH	(80°-90°)	53.1	2.3			G1/100
UL	(90°-100°)	39.4	1.7		U2/50	
UH	(100°-180°)	34.0	1.4		U2/50	

BUG Rating: B1-U2-G1

Type II 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°	77.3	77.0	77.3	77.0	77.0	76.5	75.7	74.6	73.4	73.1	72.2
5°	82.8	82.8	82.8	82.1	81.6	80.7	79.1	77.0	75.1	74.8	73.1
7.5°	90.0	90.3	89.8	88.7	87.6	85.2	83.3	80.5	77.9	77.6	75.1
10°	101.1	100.8	99.9	98.5	95.4	92.9	89.5	85.5	82.8	82.1	79.1
12.5°	116.3	116.0	114.6	110.7	106.4	101.6	98.2	94.5	91.8	91.5	88.7
15°	136.1	135.5	132.7	127.6	120.8	114.6	111.8	108.1	105.3	105.1	102.2
17.5°	160.4	159.8	155.8	148.5	139.2	132.2	129.0	124.8	121.6	121.9	117.7
20°	190.9	189.5	184.0	174.2	162.9	154.5	149.7	145.4	142.8	142.6	139.4
22.5°	230.1	228.1	218.5	206.6	192.5	181.0	174.7	170.2	168.6	168.8	166.0
25°	280.3	276.7	264.5	248.2	230.7	212.9	205.5	200.4	201.3	201.8	199.1
27.5°	339.9	338.2	319.6	299.8	273.8	250.9	244.2	239.1	240.8	242.2	240.0
30°	413.9	408.3	386.5	356.8	323.3	295.3	286.5	284.9	289.4	291.3	289.9
32.5°	498.8	494.0	464.4	426.9	378.0	344.9	334.8	339.3	346.7	348.9	347.2
35°	599.7	595.4	555.6	504.2	442.1	406.8	393.2	400.9	410.2	412.1	409.6
37.5°	703.8	701.5	658.1	590.5	514.6	468.9	457.4	468.3	478.2	479.9	471.5
40°	793.0	794.9	751.5	676.7	589.1	535.0	528.1	538.1	540.9	541.8	525.7
42.5°	865.5	866.6	828.8	753.2	659.2	603.8	600.2	605.3	606.1	606.1	587.5
45°	884.8	891.0	869.2	811.6	725.8	670.7	670.7	682.3	687.9	689.7	665.6
47.5°	893.4	898.0	885.6	844.0	779.5	735.4	750.1	776.9	782.6	785.6	754.8
50°	885.6	891.8	889.6	862.8	816.1	794.7	837.6	884.4	894.9	898.0	860.5
52.5°	823.5	835.9	854.6	859.4	838.4	844.0	926.3	1005.3	1014.6	1016.3	960.7
55°	733.7	748.4	780.0	813.6	833.6	876.9	1012.3	1122.2	1119.9	1121.1	1057.2
57.5°	620.8	635.2	677.8	730.9	789.0	884.1	1064.0	1217.0	1232.6	1235.6	1175.3
60°	516.9	522.8	568.6	628.7	705.7	846.9	1064.0	1296.1	1346.6	1340.7	1258.7
62.5°	397.2	409.4	457.1	522.5	606.4	755.8	1025.3	1321.1	1387.2	1379.0	1302.2
65°	304.0	313.9	356.0	417.8	501.3	641.4	933.5	1268.4	1397.1	1395.1	1344.1
67.5°	237.1	238.6	274.7	327.4	396.6	517.5	783.4	1166.0	1349.4	1349.2	1318.7
70°	179.2	180.7	210.0	258.9	306.3	395.8	625.5	999.1	1222.6	1218.9	1233.1
72.5°	136.9	138.6	161.7	200.7	235.5	295.5	476.8	803.4	1032.4	1037.8	1058.7
75°	105.9	107.5	125.6	155.8	180.3	216.8	344.4	605.0	827.7	836.5	880.2
77.5°	81.6	83.3	97.7	120.5	138.6	159.0	240.0	443.8	640.3	651.5	700.4
80°	62.7	64.3	77.0	93.4	108.1	120.5	169.1	317.8	481.9	494.6	551.4
82.5°	48.6	50.2	61.0	74.3	86.6	95.1	123.1	226.4	359.4	369.8	428.8
85°	37.5	39.0	48.0	58.4	70.3	77.9	94.3	160.4	258.0	266.8	313.3
87.5°	29.1	30.2	37.5	46.0	57.0	64.7	75.1	116.6	177.0	183.8	214.8
90°	22.0	23.1	29.1	35.6	45.2	53.4	60.1	83.9	121.6	125.6	141.5
92.5°	16.1	17.0	21.7	26.5	34.5	42.4	48.0	62.1	82.8	84.7	91.5
95°	12.2	12.7	16.1	19.7	26.0	32.7	37.2	45.7	55.6	56.8	59.0
97.5°	9.6	9.9	12.4	15.2	20.0	25.4	28.7	33.6	39.3	39.8	40.9
100°	8.2	8.5	10.4	12.7	16.1	20.4	22.9	26.0	29.1	29.4	30.2
102.5°	7.1	7.4	8.8	10.4	13.5	17.0	18.6	20.6	22.3	22.0	22.9
105°	6.2	6.2	7.7	9.0	11.6	14.1	15.2	16.4	17.0	17.0	17.5
107.5°	5.3	5.6	6.4	7.9	10.1	12.2	12.7	13.0	13.0	13.0	13.5
110°	4.8	4.8	5.6	6.8	8.8	10.4	10.7	10.4	10.1	10.1	10.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	4.2	4.2	4.8	6.2	7.9	9.3	9.3	8.8	7.9	7.9	8.5
115°	3.7	4.0	4.2	5.6	7.4	8.5	8.2	7.4	6.4	6.4	7.1
117.5°	3.4	3.4	4.0	5.1	6.8	7.7	7.4	6.2	5.3	5.3	5.9
120°	3.4	3.4	3.7	4.8	6.2	7.1	6.4	5.3	4.5	4.5	5.3
122.5°	3.4	3.4	3.7	4.5	5.6	6.2	5.9	4.8	4.0	4.0	4.5
125°	3.7	3.7	3.7	4.5	5.3	5.9	5.3	4.5	3.7	3.7	4.0
127.5°	4.0	4.0	4.0	4.5	5.1	5.3	4.8	4.0	3.4	3.4	3.7
130°	4.2	4.2	4.0	4.2	4.8	4.8	4.5	3.7	3.1	3.1	3.7
132.5°	4.2	4.2	4.0	4.0	4.2	4.2	4.0	3.1	2.9	2.9	3.4
135°	4.0	4.0	3.7	3.7	3.7	3.7	3.1	2.6	2.6	2.6	2.9
137.5°	3.7	3.7	3.4	3.4	3.4	3.1	2.6	1.9	1.9	1.9	2.6
140°	3.1	3.1	3.1	2.9	2.9	2.6	1.9	1.7	1.7	1.7	1.9
142.5°	2.9	2.6	2.6	2.3	2.3	1.9	1.4	1.1	1.1	1.1	1.4
145°	2.3	2.3	1.9	1.7	1.7	1.4	0.8	0.6	0.8	0.8	1.1
147.5°	1.7	1.7	1.4	1.4	1.1	0.8	0.3	0.6	0.6	0.6	0.8
150°	1.1	1.1	1.1	0.8	0.6	0.3	0.3	0.3	0.3	0.6	0.6
152.5°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.3	0.3	0.3	0.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	71.7	71.4	70.9	69.8	69.5	68.8	68.0	67.7	67.2	67.5	67.2
5°	72.2	71.7	69.8	68.6	67.2	66.4	65.5	65.0	64.3	64.0	63.8
7.5°	73.7	72.8	70.6	68.3	66.4	65.0	63.8	62.9	62.4	62.1	61.8
10°	77.3	76.2	72.8	69.8	66.6	64.7	63.2	62.4	61.8	61.8	61.8
12.5°	86.3	85.0	79.9	74.6	69.5	66.4	64.7	65.8	67.2	68.6	69.5
15°	99.3	97.7	91.5	83.9	76.2	71.7	72.0	74.3	75.9	77.6	77.9
17.5°	115.7	113.4	105.6	95.4	85.2	81.6	80.5	82.8	85.5	87.3	88.1
20°	136.1	133.3	123.1	108.9	98.8	93.4	90.9	91.8	94.8	97.7	98.0
22.5°	162.0	156.9	145.1	125.6	112.9	104.8	101.1	101.1	105.3	108.9	109.6
25°	195.1	190.3	171.3	146.8	128.2	115.7	111.5	112.3	118.0	122.8	123.4
27.5°	235.7	228.9	204.1	172.0	143.9	125.3	120.8	123.1	128.7	133.8	134.4
30°	284.3	273.5	241.9	199.1	159.5	134.9	127.9	130.7	135.7	141.2	141.2
32.5°	339.3	326.6	284.6	227.8	174.2	141.7	131.9	135.5	140.6	146.0	145.7
35°	398.8	384.2	328.9	256.9	187.4	146.5	133.8	138.0	143.9	150.5	150.5
37.5°	459.3	444.4	373.5	282.8	196.8	147.1	134.4	140.6	148.5	154.5	153.9
40°	509.0	488.7	409.6	301.5	200.7	145.7	135.2	142.0	147.9	150.5	149.9
42.5°	568.6	542.6	445.5	311.1	198.1	143.1	135.5	140.3	143.1	143.1	142.0
45°	640.6	610.9	490.1	321.3	191.7	140.3	134.1	136.9	136.9	134.6	133.0
47.5°	727.8	687.7	537.3	330.3	185.2	137.8	132.7	133.8	130.7	127.4	126.2
50°	829.4	780.8	589.1	336.8	179.0	135.7	132.2	131.6	129.3	125.9	124.8
52.5°	923.1	868.7	643.1	341.9	172.5	134.9	132.2	132.2	129.8	125.1	124.0
55°	1015.5	957.3	686.3	339.0	165.4	135.2	133.3	133.8	130.7	125.9	124.8
57.5°	1131.8	1069.1	737.6	334.0	158.0	135.7	134.4	134.9	132.2	127.6	126.4
60°	1212.5	1143.0	774.4	326.0	151.3	135.7	134.9	135.7	134.9	132.7	131.9
62.5°	1260.5	1183.1	778.3	308.0	146.3	134.6	134.4	137.2	139.2	138.3	137.5
65°	1296.6	1215.9	769.6	284.6	140.3	131.6	133.0	137.5	140.9	141.2	140.9
67.5°	1268.7	1185.4	727.2	257.2	133.3	127.6	130.4	135.5	140.6	142.3	142.0
70°	1182.8	1101.0	654.4	223.6	125.1	121.4	125.3	132.2	137.5	139.4	138.9
72.5°	1006.4	933.3	554.1	191.4	115.5	113.2	117.4	125.3	129.8	131.0	130.1
75°	833.1	768.7	444.9	157.8	105.1	103.0	107.0	113.2	116.3	116.3	114.9
77.5°	665.9	606.1	350.4	131.0	94.3	92.1	95.7	99.3	99.9	98.0	96.6
80°	523.1	466.7	265.4	108.4	83.3	81.0	82.1	84.4	85.2	81.6	79.6
82.5°	405.7	355.2	199.3	89.8	72.5	69.8	70.6	71.7	72.0	67.5	65.2
85°	292.5	254.3	146.3	75.7	62.4	59.8	59.5	59.8	60.1	56.2	54.2
87.5°	200.7	174.2	107.0	63.5	53.9	51.4	50.8	50.5	50.5	46.3	44.3
90°	132.2	116.9	79.6	53.6	45.7	43.2	42.0	41.7	41.2	36.7	35.0
92.5°	85.8	78.5	59.0	44.1	37.8	35.6	34.2	33.3	32.4	28.2	26.5
95°	56.2	53.1	44.6	35.3	30.5	28.5	27.4	26.3	25.2	21.5	20.4
97.5°	39.8	38.7	34.7	28.5	24.2	22.9	22.0	21.2	20.4	17.2	16.7
100°	30.0	29.7	27.9	23.4	19.7	18.9	18.1	17.5	17.0	14.7	14.1
102.5°	23.1	23.4	22.9	19.2	16.7	15.9	15.2	14.7	14.4	12.7	12.4
105°	18.1	18.6	18.3	16.1	14.1	13.5	13.0	12.4	12.2	11.0	11.0
107.5°	14.1	14.7	14.9	13.3	12.2	11.6	11.0	10.4	10.4	9.9	9.9
110°	11.3	11.9	12.4	11.3	10.4	10.1	9.6	9.0	8.8	8.8	8.8



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	9.3	9.6	10.1	9.6	9.0	8.8	8.2	7.7	7.7	7.7	7.9
115°	7.7	8.2	8.5	8.2	7.9	7.9	7.1	6.4	6.2	6.8	6.8
117.5°	6.4	7.1	7.4	7.1	7.1	7.1	6.2	5.6	5.3	5.6	5.9
120°	5.6	5.9	6.2	6.2	6.2	6.2	5.6	4.8	4.5	5.1	5.1
122.5°	4.8	5.1	5.3	5.6	5.6	5.3	4.8	4.2	4.0	4.5	4.5
125°	4.2	4.5	4.8	5.1	5.1	4.8	4.2	3.7	3.4	4.0	4.0
127.5°	4.0	4.2	4.5	4.5	4.5	4.2	3.7	3.1	3.1	3.4	3.7
130°	4.0	4.0	4.2	4.2	4.0	3.7	3.1	2.6	2.6	3.1	3.1
132.5°	3.7	3.7	3.7	3.7	3.4	3.1	2.6	2.3	2.3	2.9	2.9
135°	3.1	3.1	3.1	3.1	2.9	2.6	2.3	1.7	1.9	2.3	2.3
137.5°	2.6	2.6	2.6	2.6	2.3	1.9	1.7	1.4	1.4	1.7	1.9
140°	1.9	2.3	2.3	1.9	1.7	1.7	1.1	0.8	1.1	1.4	1.4
142.5°	1.7	1.7	1.7	1.4	1.4	1.1	0.8	0.6	0.8	1.1	1.1
145°	1.4	1.4	1.4	1.4	1.1	0.6	0.3	0.3	0.6	0.6	0.6
147.5°	1.1	1.1	1.1	1.1	0.8	0.6	0.0	0.0	0.3	0.3	0.3
150°	0.8	0.8	0.8	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
152.5°	0.6	0.6	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	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)