

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: P255174

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-35)
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-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2348.7 lumens
Efficiency: N/A
Efficacy: 111.8 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

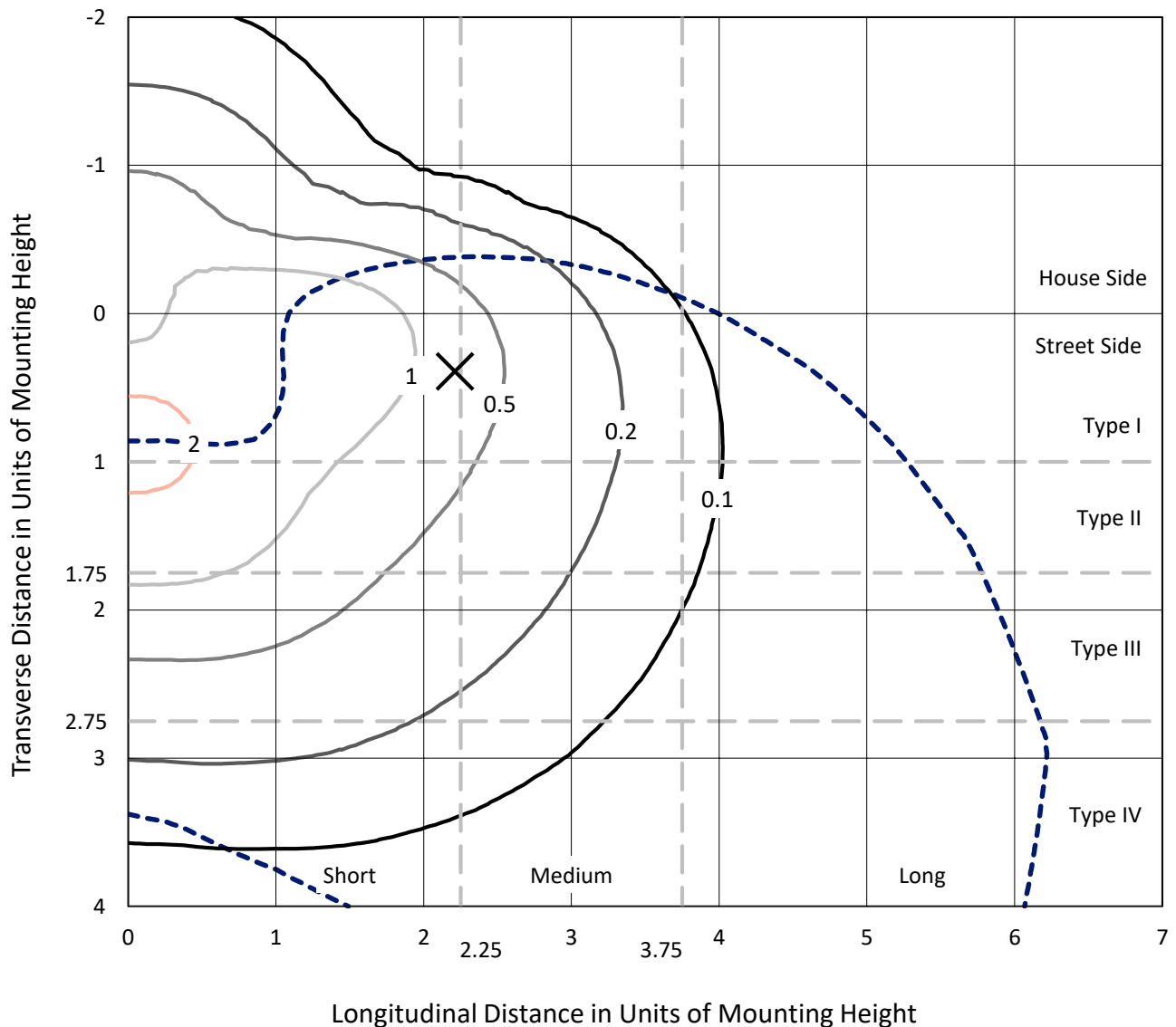
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

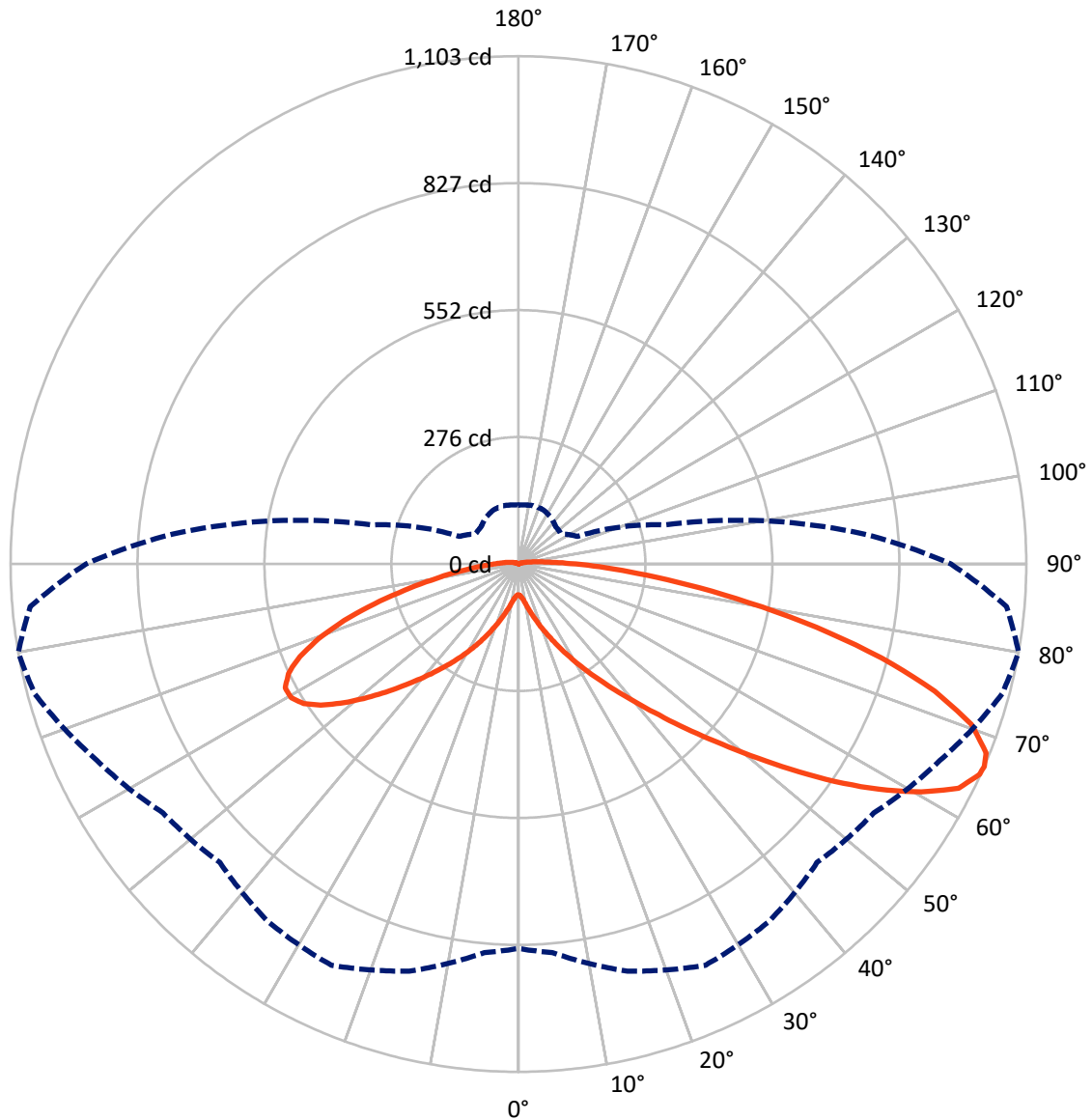
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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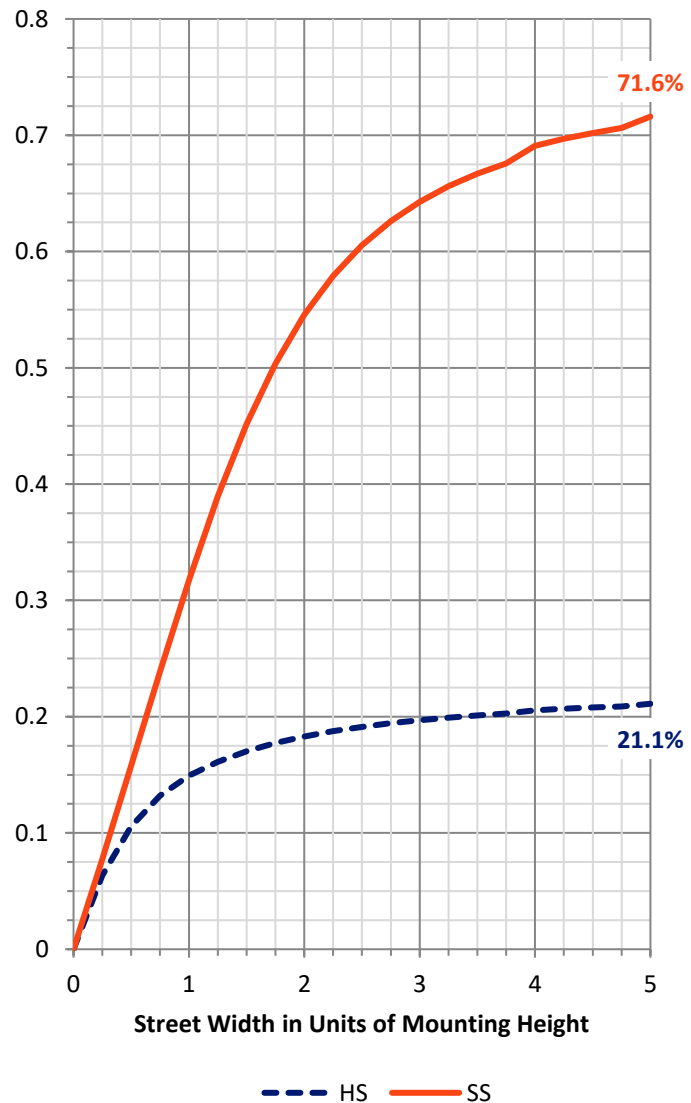
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.9	33.6	554.4
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	1749.3	45.0	1794.3
	% Fixture	74.5	1.9	76.4
Total	Lumens	2270.2	78.6	2348.7
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.3
10°-20°	31.9	1.4
20°-30°	81.4	3.5
30°-40°	161.1	6.9
40°-50°	279.2	11.9
50°-60°	445.2	19.0
60°-70°	578.8	24.6
70°-80°	478.8	20.4
80°-90°	206.5	8.8
90°-100°	53.9	2.3
100°-110°	15.9	0.7
110°-120°	5.9	0.3
120°-130°	2.1	0.1
130°-140°	0.7	0.0
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2270.2	96.7
0°-180°	2348.7	100.0



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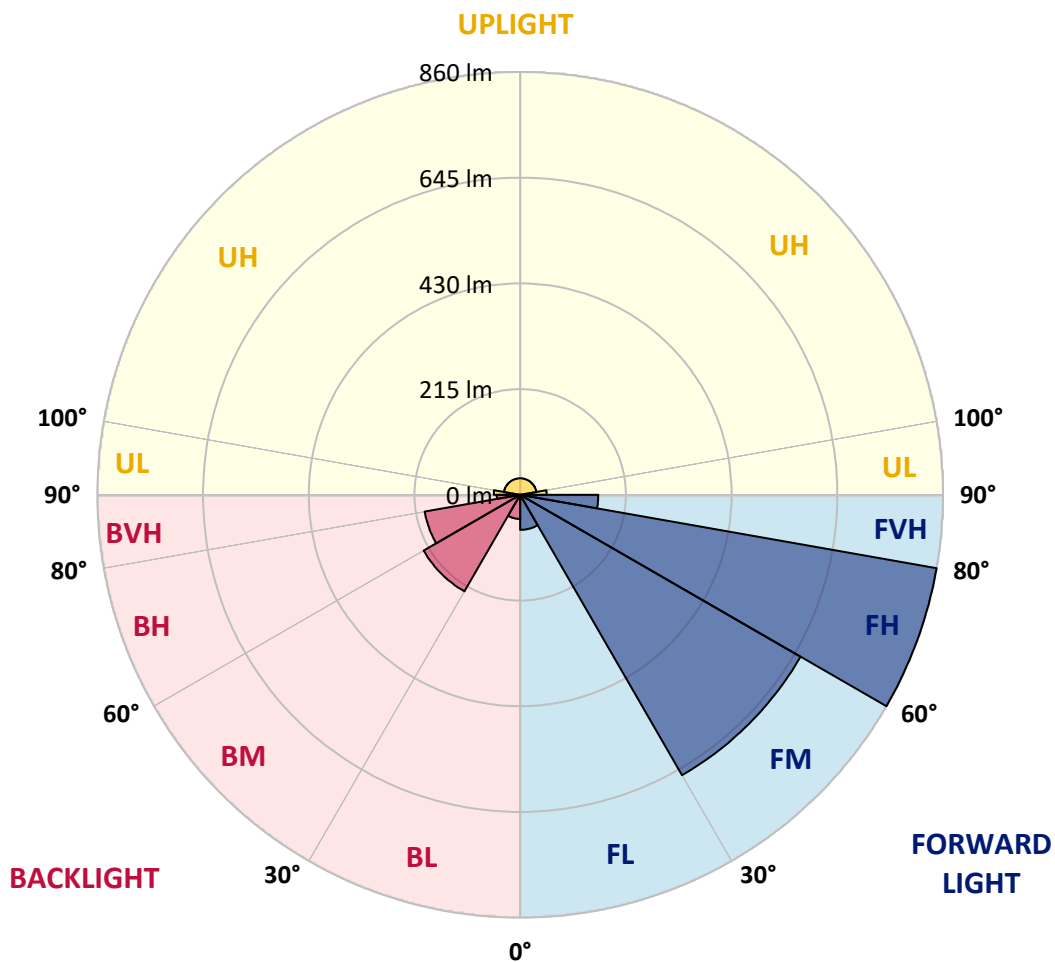
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.4	3.0			
FM	(30°-60°)	658.7	28.0			
FH	(60°-80°)	860.3	36.6			G1/1800
FVH	(80°-90°)	158.9	6.8			G2/225
BL	(0°-30°)	49.2	2.1	B0/110		
BM	(30°-60°)	226.9	9.7	B1/1000		
BH	(60°-80°)	197.3	8.4	B1/500		G1/500
BVH	(80°-90°)	47.6	2.0			G1/100
UL	(90°-100°)	53.9	2.3		U3/500	
UH	(100°-180°)	33.6	1.4		U2/50	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
2.5°	72.0	71.7	72.0	72.0	71.7	71.4	70.6	70.0	69.2	68.6	68.3
5°	77.9	77.6	77.6	77.6	77.3	76.8	75.7	74.5	73.3	72.5	72.2
7.5°	86.3	85.5	85.5	85.2	84.7	83.9	82.4	81.3	80.2	78.8	78.2
10°	98.0	97.4	96.6	96.0	94.5	93.7	92.1	90.6	89.7	88.6	87.5
12.5°	111.8	112.6	112.0	109.8	108.1	106.7	104.4	103.6	102.7	101.4	100.5
15°	129.8	130.4	129.0	126.7	123.9	122.2	120.0	117.9	117.4	115.7	114.6
17.5°	150.5	151.6	149.4	146.0	142.3	138.3	136.7	134.6	133.8	132.1	130.9
20°	175.0	176.2	173.1	168.0	162.5	156.9	155.0	152.7	152.4	150.8	149.9
22.5°	203.8	204.7	199.9	192.5	184.8	177.6	174.4	172.2	172.5	171.0	170.7
25°	237.1	237.4	230.6	221.1	209.4	199.6	195.4	194.2	195.4	194.5	194.0
27.5°	274.7	274.4	268.1	253.2	235.7	222.2	217.1	217.4	219.9	220.4	220.4
30°	316.2	317.3	306.8	287.3	264.5	245.8	240.5	241.6	249.0	249.0	249.0
32.5°	364.4	364.2	352.3	324.1	295.5	272.7	265.7	266.8	275.8	280.0	278.7
35°	418.3	417.8	403.0	366.9	329.4	301.2	291.5	297.0	309.3	314.1	313.0
37.5°	476.2	476.2	459.0	414.7	366.4	332.3	321.8	327.8	345.2	353.1	348.9
40°	535.5	535.7	515.5	468.6	408.5	366.1	354.2	364.7	389.2	396.9	394.0
42.5°	594.7	593.0	574.2	521.9	453.6	404.2	389.8	407.3	437.2	448.0	444.1
45°	654.6	653.5	636.3	578.1	503.0	445.4	430.5	453.1	492.0	509.2	505.2
47.5°	712.5	712.5	696.3	634.5	556.7	492.2	478.7	506.7	556.1	575.0	575.8
50°	766.9	767.8	753.9	696.3	611.4	543.9	532.0	568.5	632.9	653.5	654.9
52.5°	817.7	820.0	811.0	760.8	672.7	601.5	593.0	634.2	709.6	739.8	743.5
55°	862.9	863.8	862.7	820.6	735.6	662.0	659.1	708.5	801.1	833.6	833.6
57.5°	894.6	899.6	910.0	875.9	801.1	727.9	727.4	785.5	885.0	923.6	921.4
60°	908.9	914.5	941.1	925.3	861.7	794.3	800.3	866.0	974.2	1005.2	1003.2
62.5°	899.9	907.3	950.4	958.3	910.0	856.1	867.5	938.3	1036.8	1073.2	1051.2
65°	858.2	868.8	929.2	965.7	941.9	903.3	924.7	995.0	1079.7	1101.1	1067.9
66°	835.2	847.1	915.4	961.5	948.2	917.1	942.5	1010.0	1087.9	1103.2	1064.5
67.5°	797.2	806.7	885.0	946.2	950.9	935.7	963.7	1024.7	1085.7	1095.8	1046.1
70°	708.2	720.1	806.5	898.8	936.6	947.6	978.4	1023.0	1057.9	1043.8	977.8
72.5°	600.1	618.8	704.5	817.1	891.1	929.6	963.1	986.0	984.6	946.2	867.5
75°	477.9	489.5	580.3	702.3	805.9	877.3	910.9	906.9	871.7	814.1	725.7
77.5°	356.8	368.4	449.1	569.4	687.9	778.3	808.7	791.5	726.0	662.3	576.6
80°	251.2	261.4	328.9	441.2	555.8	649.0	674.3	649.8	569.6	506.4	433.5
82.5°	171.3	175.8	232.3	329.7	433.3	512.6	537.2	505.5	429.0	369.0	312.2
85°	105.3	111.8	157.8	234.9	318.6	379.6	398.8	374.0	308.2	260.2	215.1
87.5°	61.6	65.2	97.7	158.4	229.2	279.2	289.1	265.9	211.4	176.2	142.8
90°	33.0	35.8	56.2	98.8	155.5	193.0	200.4	178.9	138.3	112.3	91.5
92.5°	19.4	21.2	33.6	59.5	99.6	127.1	132.1	114.9	87.0	72.0	59.8
95°	12.7	13.8	22.0	37.2	61.3	80.4	83.0	71.1	55.0	47.5	41.5
97.5°	9.3	9.9	15.9	25.4	38.7	49.4	51.4	44.0	36.4	32.7	29.7
100°	7.4	7.9	12.2	18.6	26.0	31.9	32.4	28.7	25.2	23.1	22.0
102.5°	6.2	6.4	9.9	14.6	19.4	22.6	22.9	20.4	17.8	16.7	16.4
105°	5.3	5.6	8.5	12.2	15.5	17.5	17.5	15.2	13.0	12.2	12.4
107.5°	4.5	4.8	7.1	10.1	13.0	14.4	14.1	11.9	9.6	8.8	9.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	4.0	4.2	6.2	8.8	11.3	12.2	11.6	9.3	6.8	6.2	6.4
112.5°	3.7	3.7	5.3	7.7	9.6	10.1	9.3	7.1	4.8	4.5	4.8
115°	3.1	3.4	4.5	6.4	7.9	8.5	7.7	5.3	3.4	3.4	3.7
117.5°	2.9	3.1	4.0	5.3	6.8	7.1	6.2	4.2	2.6	2.6	2.9
120°	2.6	2.6	3.4	4.5	5.6	5.6	4.8	3.1	1.9	1.9	2.3
122.5°	2.3	2.6	2.9	3.7	4.5	4.5	3.7	2.3	1.7	1.7	1.9
125°	1.9	2.3	2.6	3.1	3.7	3.7	2.9	1.7	1.4	1.7	1.7
127.5°	1.9	1.9	2.3	2.6	3.1	2.9	2.3	1.1	1.4	1.4	1.7
130°	1.7	1.7	1.9	1.9	2.3	2.3	1.7	1.1	1.1	1.4	1.4
132.5°	1.4	1.4	1.7	1.7	1.9	1.7	1.1	0.8	1.1	1.1	1.4
135°	1.1	1.1	1.1	1.4	1.4	1.1	0.8	0.8	1.1	1.1	1.1
137.5°	1.1	0.8	1.1	1.1	0.8	0.6	0.6	0.6	0.8	1.1	1.1
140°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.6	0.8	0.8	1.1
142.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.8	0.8
145°	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.6	0.6	0.8
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
2.5°	68.0	67.7	66.9	66.3	65.8	65.2	65.2	65.2	65.0	64.7	64.7
5°	71.7	71.1	70.0	68.8	67.4	66.3	65.8	65.5	65.0	64.3	64.3
7.5°	77.6	76.8	74.8	72.5	71.1	69.5	68.8	68.3	67.4	66.9	66.6
10°	86.6	85.2	82.1	79.3	76.5	74.3	73.3	72.8	72.2	72.2	72.2
12.5°	98.8	97.1	93.2	88.1	84.7	81.3	80.2	79.9	80.2	80.4	80.4
15°	112.9	110.1	105.0	98.2	93.4	89.7	88.6	88.6	89.2	89.5	89.5
17.5°	129.3	125.9	117.4	109.6	103.0	99.1	97.4	97.4	98.5	99.1	99.3
20°	146.5	142.8	133.2	120.5	112.3	107.8	105.9	106.2	107.5	108.9	109.3
22.5°	166.2	162.0	147.6	132.1	121.4	115.5	113.2	114.1	116.3	118.3	118.9
25°	188.8	183.5	164.6	144.5	129.6	121.6	120.0	121.6	125.0	127.6	127.9
27.5°	213.4	206.6	181.8	155.8	135.7	125.6	124.5	127.9	131.9	134.9	135.5
30°	240.8	232.3	199.9	165.7	140.6	128.7	127.6	132.1	136.9	140.6	141.2
32.5°	271.3	259.7	217.4	174.2	143.4	129.8	129.3	134.6	140.6	144.2	144.8
35°	304.3	289.1	236.0	181.0	144.5	129.6	129.3	135.5	141.7	145.4	145.7
37.5°	340.9	322.3	253.8	186.0	144.2	128.5	128.5	134.9	140.9	144.2	144.2
40°	383.3	358.4	273.2	189.5	142.8	126.4	126.7	132.7	138.3	140.6	140.9
42.5°	431.6	400.3	291.0	190.8	140.0	124.2	124.2	130.1	134.6	135.7	135.7
45°	486.9	446.8	310.5	190.6	137.2	121.6	121.9	127.1	130.4	130.7	130.4
47.5°	553.2	500.7	328.9	189.5	133.2	119.1	120.0	124.5	127.1	126.7	126.4
50°	626.0	558.9	346.9	186.9	129.8	117.4	118.6	122.8	125.0	124.2	123.7
52.5°	704.8	619.6	363.0	182.9	126.1	116.0	117.9	122.2	124.2	122.8	122.8
55°	786.4	679.8	375.7	177.0	123.1	115.2	118.3	122.2	124.5	123.1	123.1
57.5°	860.4	731.4	381.7	170.2	120.5	114.9	118.9	123.7	125.6	124.5	124.5
60°	918.5	767.5	377.7	162.3	117.9	114.6	120.0	125.3	127.6	126.1	126.1
62.5°	953.2	783.6	363.6	153.9	116.0	114.9	121.6	127.9	129.6	127.9	127.3
65°	951.9	766.9	339.8	144.8	114.1	114.9	122.8	129.3	130.7	128.7	127.9
66°	939.4	752.6	327.8	141.4	113.4	114.6	123.1	129.3	130.9	128.7	127.9
67.5°	916.0	722.9	307.7	136.1	112.0	114.4	123.4	129.6	130.7	128.7	127.6
70°	842.0	657.1	270.2	127.1	109.6	112.9	122.5	128.7	129.6	127.9	126.7
72.5°	731.4	563.7	232.0	117.9	106.2	109.8	120.3	125.9	127.3	125.6	124.5
75°	601.0	457.3	194.0	109.3	101.1	105.3	115.7	121.4	123.1	121.6	120.3
77.5°	467.2	350.1	157.5	100.8	95.1	99.6	109.6	114.6	116.3	114.6	113.8
80°	346.7	258.8	126.4	91.8	88.4	92.6	101.9	106.4	108.1	106.2	105.6
82.5°	248.7	187.7	100.8	81.8	80.2	84.1	92.6	96.6	98.0	96.8	94.8
85°	166.2	129.3	79.6	71.1	71.4	75.1	82.1	84.7	86.3	85.2	83.6
87.5°	112.6	88.6	62.9	60.5	61.3	63.8	70.3	72.2	73.3	72.0	71.7
90°	73.3	61.3	49.9	51.0	52.2	54.2	58.1	59.0	60.5	59.0	58.7
92.5°	49.9	44.9	40.6	42.7	44.0	45.4	47.7	48.3	49.4	48.3	47.7
95°	36.7	34.7	33.0	35.6	36.9	37.8	39.3	39.0	39.8	38.7	38.2
97.5°	27.9	26.8	27.1	29.4	30.8	31.3	31.9	31.3	31.6	30.5	29.9
100°	21.7	21.2	22.0	24.2	25.4	25.4	25.7	25.2	24.6	23.4	22.6
102.5°	16.7	16.7	17.8	20.0	20.9	20.9	20.6	19.7	18.9	17.8	17.8
105°	12.7	13.0	14.6	16.7	17.2	17.0	17.0	15.9	14.6	13.3	13.3
107.5°	9.6	9.9	11.6	13.5	14.1	14.1	13.5	12.4	11.0	9.9	9.9



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.1	7.7	9.3	11.0	11.6	11.3	11.0	9.6	8.2	7.4	7.1
112.5°	5.3	5.6	7.4	8.8	9.3	9.3	8.8	7.4	5.9	5.3	5.3
115°	4.0	4.5	5.6	7.1	7.4	7.4	6.8	5.6	4.2	3.7	4.0
117.5°	3.1	3.4	4.5	5.6	5.6	5.6	5.1	4.0	3.1	2.9	2.9
120°	2.6	2.9	3.4	4.2	4.2	4.2	3.7	2.9	2.3	1.9	2.3
122.5°	1.9	2.3	2.6	3.1	3.1	3.1	2.9	1.9	1.4	1.4	1.7
125°	1.9	1.9	1.9	2.3	2.3	2.3	1.9	1.4	1.1	1.1	1.1
127.5°	1.7	1.7	1.7	1.7	1.7	1.4	1.1	0.8	0.6	0.8	0.8
130°	1.7	1.7	1.4	1.4	1.1	0.8	0.6	0.3	0.3	0.6	0.6
132.5°	1.4	1.4	1.4	1.1	0.8	0.6	0.3	0.0	0.0	0.3	0.3
135°	1.4	1.4	1.1	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
137.5°	1.1	1.1	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.1	1.1	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.8	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	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

(END OF REPORT)