

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: P254958

Luminaire Tested: **LXF.LXT-AF24-20-D-U-SL3-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-31)
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-SL3-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2232.1 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

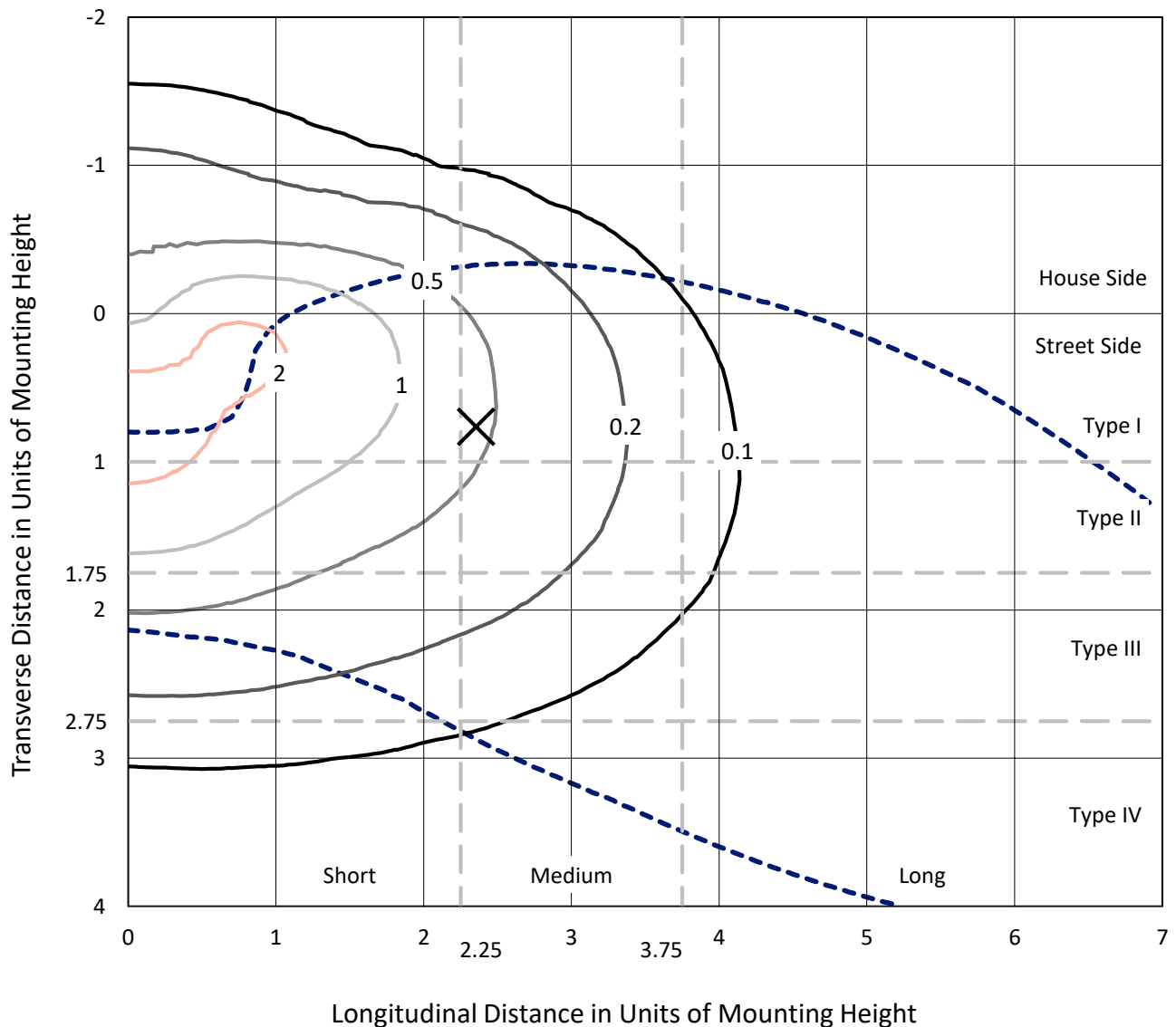
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

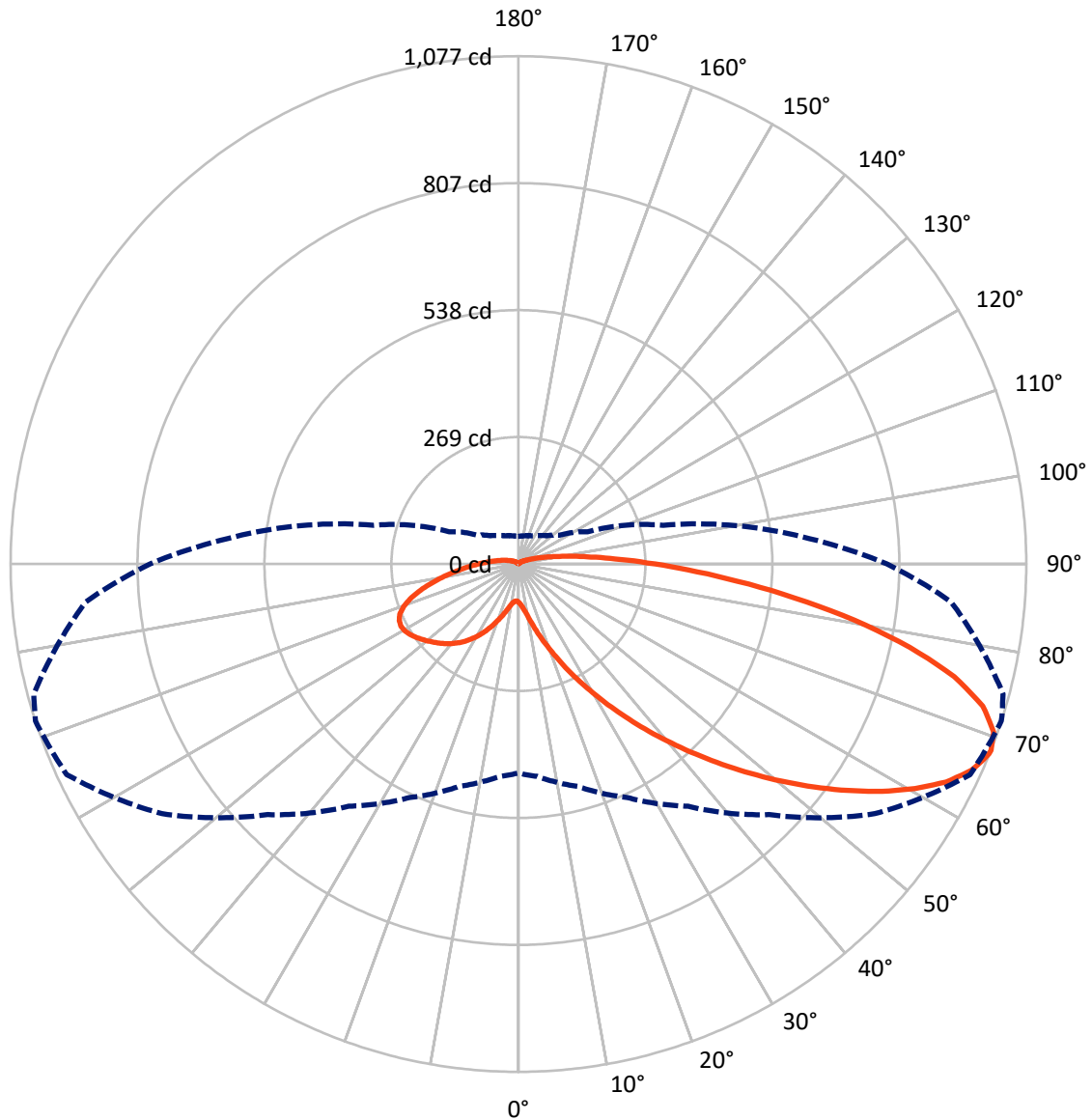
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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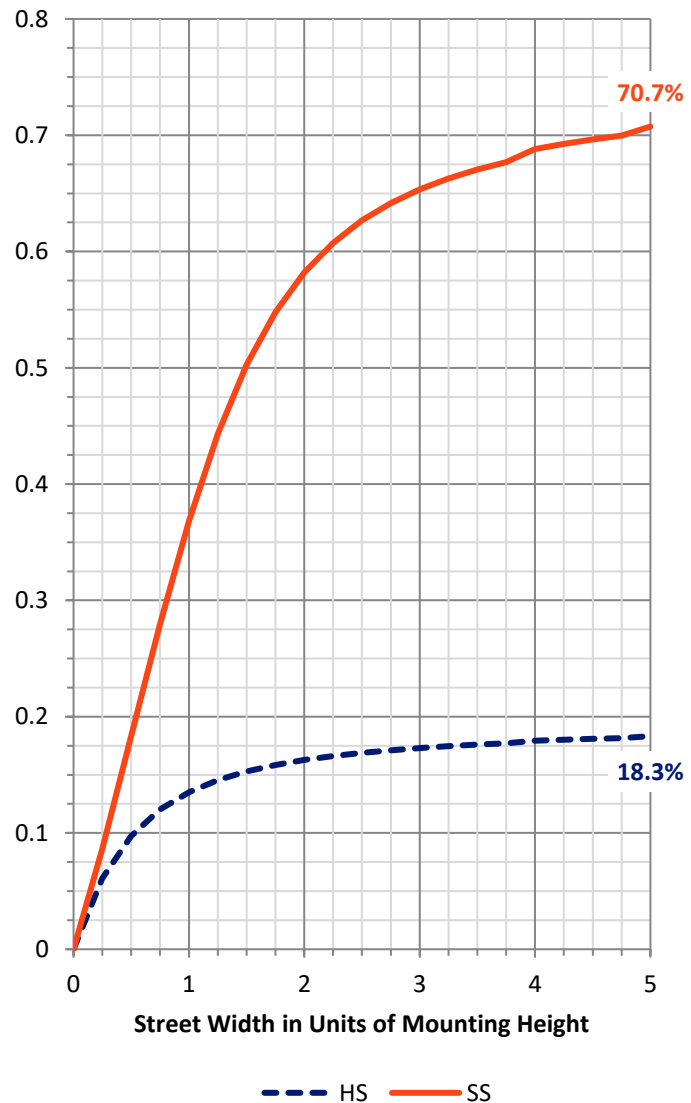
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	429.0	51.1	480.1
	% Fixture	19.2	2.3	21.5
Street Side	Lumens	1646.7	105.3	1752.0
	% Fixture	73.8	4.7	78.5
Total	Lumens	2075.7	156.4	2232.1
	% Fixture	93.0	7.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.4
10°-20°	35.5	1.6
20°-30°	87.6	3.9
30°-40°	171.5	7.7
40°-50°	285.8	12.8
50°-60°	407.0	18.2
60°-70°	471.6	21.1
70°-80°	393.8	17.6
80°-90°	214.4	9.6
90°-100°	90.0	4.0
100°-110°	37.5	1.7
110°-120°	16.9	0.8
120°-130°	7.9	0.4
130°-140°	3.3	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°	2075.7	93.0
0°-180°	2232.1	100.0



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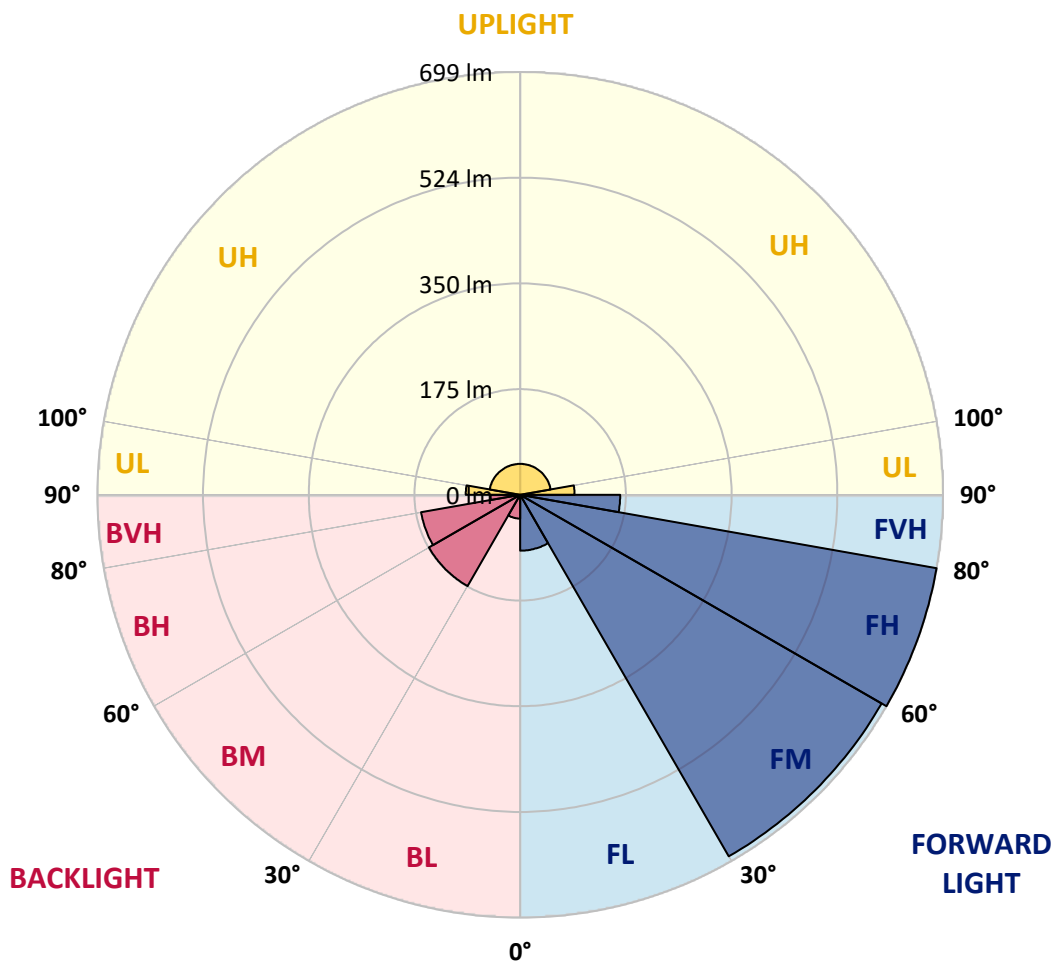
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.3	4.1			
FM	(30°-60°)	690.0	30.9			
FH	(60°-80°)	699.0	31.3			G1/1800
FVH	(80°-90°)	165.3	7.4			G2/225
BL	(0°-30°)	39.3	1.8	B0/110		
BM	(30°-60°)	174.2	7.8	B0/220		
BH	(60°-80°)	166.4	7.5	B1/500		G1/500
BVH	(80°-90°)	49.1	2.2			G1/100
UL	(90°-100°)	90.0	4.0		U3/500	
UH	(100°-180°)	51.1	2.3		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
2.5°	92.9	92.9	93.2	92.3	91.5	90.6	88.7	87.0	85.5	84.7	83.0
5°	105.6	105.9	105.3	104.4	103.0	101.1	98.2	94.8	92.1	91.5	87.6
7.5°	120.5	120.5	120.0	118.6	116.9	114.1	109.9	105.3	101.4	100.5	94.6
10°	137.8	137.8	137.5	135.2	132.7	129.3	124.2	119.4	114.1	112.3	104.4
12.5°	158.0	157.8	156.9	154.2	151.0	146.8	141.2	135.2	130.1	128.2	118.6
15°	180.1	180.1	179.0	175.3	171.7	166.5	161.5	156.4	149.9	147.6	135.5
17.5°	204.4	204.1	201.8	198.5	193.3	189.5	184.6	178.7	171.7	168.8	154.7
20°	231.8	230.9	227.8	223.3	218.8	213.7	208.9	200.7	194.8	193.1	176.8
22.5°	262.8	261.5	257.5	251.2	245.9	239.7	234.6	227.5	222.2	219.1	203.0
25°	297.6	297.0	292.2	282.0	274.4	267.3	262.3	258.9	254.1	249.6	230.9
27.5°	335.4	334.0	326.0	315.9	304.0	296.1	291.3	288.8	286.0	283.5	261.7
30°	376.0	375.2	364.8	352.0	336.2	326.0	322.6	322.9	322.4	319.9	295.8
32.5°	420.0	419.5	406.5	390.5	370.7	357.1	356.3	360.5	361.3	359.7	332.6
35°	467.2	466.7	451.7	431.7	406.8	391.0	392.1	400.3	404.0	402.5	371.8
37.5°	515.2	514.6	499.1	474.5	444.1	426.0	429.4	442.9	450.0	448.9	413.6
40°	568.0	562.9	546.9	517.5	482.7	462.7	470.4	488.4	498.8	494.9	457.4
42.5°	613.8	610.1	592.6	559.9	522.0	503.6	512.9	536.6	550.8	549.6	504.2
45°	654.1	652.4	635.2	600.2	561.2	542.9	557.8	588.3	605.8	602.7	553.6
47.5°	690.5	687.7	671.9	636.6	597.4	584.1	604.5	641.4	663.2	661.1	604.7
50°	715.0	713.9	700.1	666.6	631.0	619.7	653.3	699.0	723.5	721.3	657.8
52.5°	726.4	726.1	716.8	688.5	659.7	661.4	703.0	758.0	785.1	784.3	712.8
55°	722.7	722.4	719.0	700.4	682.3	696.1	752.6	818.2	847.5	846.9	766.2
57.5°	700.9	702.1	706.7	699.8	697.3	728.0	800.7	876.9	909.0	907.4	818.4
60°	659.5	662.1	676.4	684.9	701.5	750.6	845.0	934.7	966.4	963.5	865.8
62.5°	602.4	608.3	629.8	655.5	693.0	765.9	884.4	986.1	1017.4	1011.5	898.9
65°	534.4	541.1	570.3	612.6	671.9	768.1	912.7	1028.2	1055.3	1047.6	921.7
67.5°	458.8	467.2	502.5	558.1	636.1	756.1	922.9	1054.2	1075.6	1063.5	924.0
68°	443.2	451.7	488.2	545.9	626.8	751.3	922.6	1056.4	1076.5	1063.5	920.6
70°	382.8	391.8	431.7	495.7	589.7	727.2	911.6	1053.8	1068.8	1053.0	898.0
72.5°	313.9	322.9	363.0	431.1	533.0	677.8	872.9	1022.2	1029.3	1010.7	843.5
75°	252.1	261.5	300.1	368.7	471.5	619.1	808.8	956.2	954.7	933.0	761.4
77.5°	199.6	208.1	244.8	309.6	408.3	547.4	726.4	857.6	848.3	825.4	656.9
80°	156.9	164.6	197.9	257.5	347.2	472.3	627.9	737.6	722.1	698.7	544.6
82.5°	122.5	129.6	159.0	211.8	291.0	399.2	522.0	610.9	589.4	568.0	436.7
85°	95.7	101.4	127.4	172.8	240.5	330.0	429.4	487.8	465.2	446.6	340.4
87.5°	74.8	79.6	101.7	140.3	198.5	268.2	342.5	380.0	358.9	343.6	261.2
90°	58.7	62.1	81.8	113.8	160.1	216.3	269.0	291.6	272.7	260.9	199.3
92.5°	46.5	49.1	65.2	92.3	129.0	171.7	208.4	221.1	205.2	196.5	151.3
95°	37.2	39.3	52.8	75.4	105.1	135.7	160.4	166.8	154.5	147.6	114.9
97.5°	30.5	31.9	43.5	61.3	84.1	107.8	124.2	126.7	116.6	111.5	87.8
100°	25.4	26.3	35.8	50.8	68.3	85.8	96.9	97.1	88.7	84.4	66.9
102.5°	21.5	22.0	30.0	42.4	56.5	68.8	76.2	74.8	67.2	63.8	51.4
105°	18.3	18.9	25.2	35.6	47.2	55.9	60.1	57.9	51.4	48.8	39.8
107.5°	16.1	16.4	21.2	30.0	39.5	46.0	48.6	45.4	39.8	37.5	31.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
110°	14.1	14.4	18.1	25.7	33.3	38.7	39.5	35.8	31.1	29.4	25.2
112.5°	12.4	12.7	15.9	21.7	28.5	32.4	32.7	28.7	24.6	23.1	20.4
115°	11.3	11.6	13.8	18.6	24.2	27.4	27.1	23.1	19.4	18.3	16.7
117.5°	10.4	10.7	12.4	16.1	20.9	23.1	22.6	18.9	15.9	14.9	14.1
120°	9.6	9.9	11.0	13.8	17.8	19.7	18.6	15.2	13.0	12.4	11.9
122.5°	9.0	9.0	9.9	12.2	15.2	16.7	15.5	12.7	10.7	10.1	10.1
125°	8.2	8.5	9.0	10.4	13.0	14.1	13.0	10.4	8.8	8.8	8.8
127.5°	7.9	7.9	8.2	9.3	11.0	11.9	10.7	8.5	7.4	7.4	7.7
130°	7.4	7.4	7.4	8.2	9.3	9.6	8.5	6.8	6.2	6.2	6.4
132.5°	6.8	6.8	6.8	7.1	7.7	7.7	6.8	5.6	5.3	5.3	5.6
135°	6.2	6.2	5.9	5.9	6.2	5.9	5.3	4.5	4.2	4.5	4.8
137.5°	5.3	5.3	5.3	5.1	4.8	4.5	3.7	3.4	3.4	3.7	4.0
140°	4.5	4.5	4.5	4.0	3.7	3.1	2.6	2.3	2.6	2.9	3.1
142.5°	3.7	3.7	3.7	3.1	2.6	1.9	1.4	1.4	1.7	1.9	2.3
145°	2.9	2.9	2.9	2.3	1.7	1.1	0.8	1.1	1.4	1.4	1.7
147.5°	1.9	1.9	1.9	1.4	0.8	0.3	0.3	0.8	1.1	1.1	1.4
150°	1.1	1.1	1.1	0.6	0.3	0.0	0.0	0.6	0.8	0.8	1.1
152.5°	0.3	0.3	0.6	0.3	0.0	0.0	0.0	0.3	0.6	0.6	0.8
155°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
2.5°	81.8	81.0	79.1	77.0	75.4	74.0	72.8	72.2	71.7	71.4	70.9
5°	85.5	83.6	79.6	75.9	72.5	69.8	66.9	65.2	64.0	63.2	62.9
7.5°	91.8	88.7	82.8	77.0	71.7	66.6	63.2	61.0	59.0	57.9	57.6
10°	100.8	96.9	88.1	79.9	72.5	66.1	61.3	57.9	55.6	54.5	54.5
12.5°	113.8	107.8	96.3	85.0	74.8	66.6	60.7	57.6	55.9	55.0	55.0
15°	129.8	121.9	107.0	92.3	79.3	69.2	63.2	59.8	58.2	57.3	57.3
17.5°	147.6	137.5	118.9	100.2	83.9	73.7	66.1	62.1	60.1	59.3	59.3
20°	168.0	156.4	131.6	108.1	89.8	77.9	69.2	64.0	62.1	61.6	61.3
22.5°	191.1	176.2	145.4	116.3	95.7	81.3	71.7	65.8	64.0	63.5	63.5
25°	216.8	198.8	160.4	125.1	100.5	83.9	73.7	67.7	65.8	65.5	65.2
27.5°	243.9	222.7	175.3	133.5	104.1	85.2	74.8	69.5	67.2	67.2	66.9
30°	275.5	247.9	189.8	140.6	106.4	85.8	75.1	70.3	68.3	68.6	68.8
32.5°	307.2	274.4	204.1	146.8	108.1	86.1	75.1	70.6	68.6	69.5	69.5
35°	340.7	301.8	218.0	151.9	108.9	85.8	75.1	71.1	68.8	69.8	70.0
37.5°	376.0	329.7	231.2	155.8	109.6	85.5	75.1	71.1	69.2	70.0	70.0
40°	412.1	357.7	243.9	158.7	109.6	85.2	74.8	71.1	69.8	69.8	70.0
42.5°	451.1	386.8	255.5	160.9	109.6	84.7	74.8	71.1	69.2	69.5	69.8
45°	492.3	416.6	266.5	162.6	109.3	84.7	74.6	70.9	68.8	68.6	68.8
47.5°	532.8	447.7	277.2	164.3	108.9	85.0	74.6	70.6	68.3	67.2	67.5
50°	577.4	480.0	288.3	165.4	109.3	85.0	74.8	70.3	67.5	66.1	66.4
52.5°	621.3	512.1	299.0	166.8	109.3	85.2	74.8	69.8	66.6	64.7	65.0
55°	668.0	544.0	309.4	168.3	109.6	85.5	75.1	69.2	65.8	63.5	63.8
57.5°	708.6	574.5	318.8	169.1	109.6	86.1	75.1	68.8	65.0	62.4	62.4
60°	745.8	602.7	326.3	169.4	109.6	86.1	75.1	68.3	64.3	61.3	61.3
62.5°	774.1	621.6	330.0	168.8	108.9	86.1	74.8	67.7	63.8	60.5	60.5
65°	788.5	629.8	328.4	166.8	108.4	85.8	74.6	66.9	62.9	59.8	59.5
67.5°	784.8	623.6	320.2	162.9	107.0	85.0	73.7	65.8	62.4	59.3	58.7
68°	781.1	618.8	317.6	161.7	106.2	84.7	73.4	65.8	62.1	59.3	58.7
70°	756.3	598.2	304.3	156.9	104.8	83.6	72.5	64.7	61.3	58.7	58.2
72.5°	703.8	553.6	282.0	148.7	101.4	81.6	70.6	63.2	60.1	57.9	57.0
75°	628.4	494.1	254.1	139.2	97.1	79.1	68.0	61.3	58.4	56.5	55.6
77.5°	542.6	424.0	223.3	127.6	92.1	75.9	65.2	59.0	56.5	54.7	53.4
80°	448.9	352.0	192.2	115.5	86.3	72.0	62.1	56.2	53.9	52.0	50.8
82.5°	360.0	285.1	162.9	103.9	79.6	66.9	58.4	52.8	50.5	48.8	47.5
85°	282.0	227.3	136.4	92.1	73.4	62.4	54.5	49.1	47.2	45.2	43.8
87.5°	218.5	178.7	114.4	81.0	66.4	57.3	50.5	45.4	43.2	40.9	39.8
90°	168.8	140.6	94.6	70.6	60.1	52.5	46.3	41.5	39.0	37.0	35.8
92.5°	130.1	111.0	78.5	61.8	53.6	47.5	42.0	37.8	35.0	32.4	31.6
95°	100.8	87.8	65.2	53.6	47.7	42.7	38.2	33.9	30.8	28.2	27.4
97.5°	78.5	69.5	54.2	46.3	42.0	37.8	33.9	30.2	27.1	24.0	23.4
100°	60.7	55.0	45.4	40.1	37.0	33.3	30.0	26.8	23.1	20.4	20.0
102.5°	47.7	44.1	38.2	34.7	32.2	29.4	26.5	23.4	19.7	17.0	16.7
105°	37.8	35.6	31.9	29.7	27.9	25.7	23.4	20.4	16.4	14.1	14.1
107.5°	30.2	28.7	26.8	25.4	24.2	22.3	20.4	17.2	13.5	11.6	11.9



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CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.6	23.7	22.6	22.0	21.2	19.4	17.5	14.7	11.3	9.6	9.9
112.5°	20.0	19.7	19.2	18.9	18.3	17.0	14.9	12.2	9.0	8.2	8.2
115°	16.7	16.4	16.4	16.1	15.9	14.7	12.7	10.1	7.4	6.8	6.8
117.5°	14.1	14.1	13.8	13.8	13.5	12.4	10.7	8.5	5.9	5.6	5.6
120°	11.9	11.9	11.9	11.9	11.6	10.4	9.0	6.8	4.8	4.8	4.8
122.5°	10.1	10.4	10.1	10.1	9.9	9.0	7.4	5.3	4.0	4.0	4.2
125°	8.8	8.8	8.8	8.5	8.2	7.4	5.9	4.2	3.4	3.4	3.4
127.5°	7.7	7.7	7.7	7.4	6.8	6.2	4.8	3.4	2.9	2.9	2.9
130°	6.8	6.4	6.4	6.2	5.6	4.8	3.7	2.6	2.3	2.3	2.3
132.5°	5.6	5.6	5.3	5.1	4.5	3.7	2.9	1.7	1.7	1.9	1.9
135°	4.8	4.8	4.5	4.0	3.4	2.9	1.9	1.4	1.4	1.4	1.4
137.5°	4.0	4.0	3.7	3.1	2.6	1.7	1.1	0.8	0.8	1.1	1.1
140°	3.1	3.1	2.9	2.3	1.7	1.1	0.6	0.3	0.6	0.6	0.6
142.5°	2.3	2.3	1.9	1.4	0.8	0.6	0.0	0.3	0.3	0.3	0.3
145°	1.7	1.7	1.4	1.1	0.6	0.3	0.0	0.0	0.3	0.0	0.0
147.5°	1.4	1.4	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	0.8	0.8	0.6	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	0.0	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)