

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: P254418

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
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-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2255.6 lumens
Efficiency: N/A
Efficacy: 107.4 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

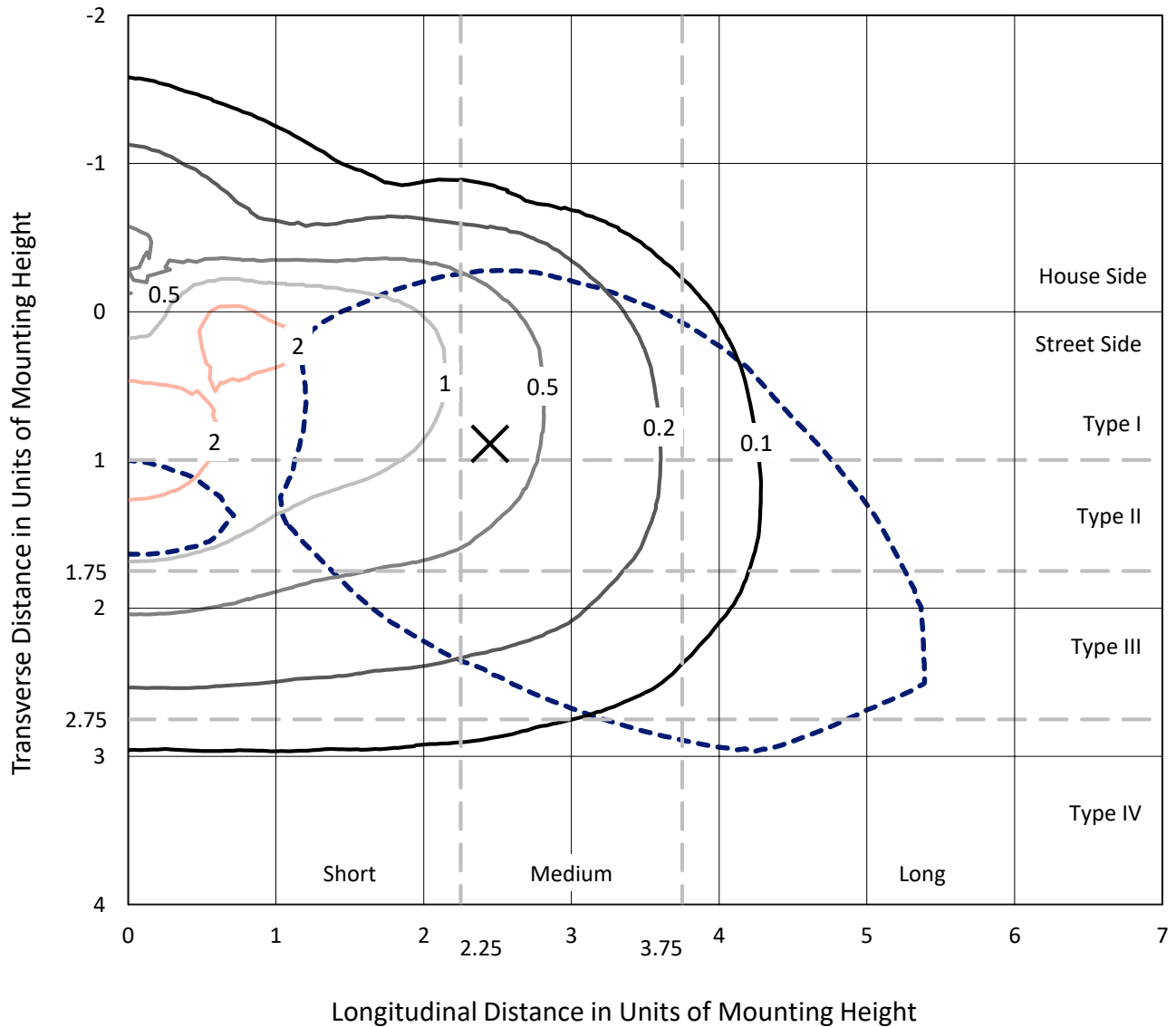
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254418
 CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

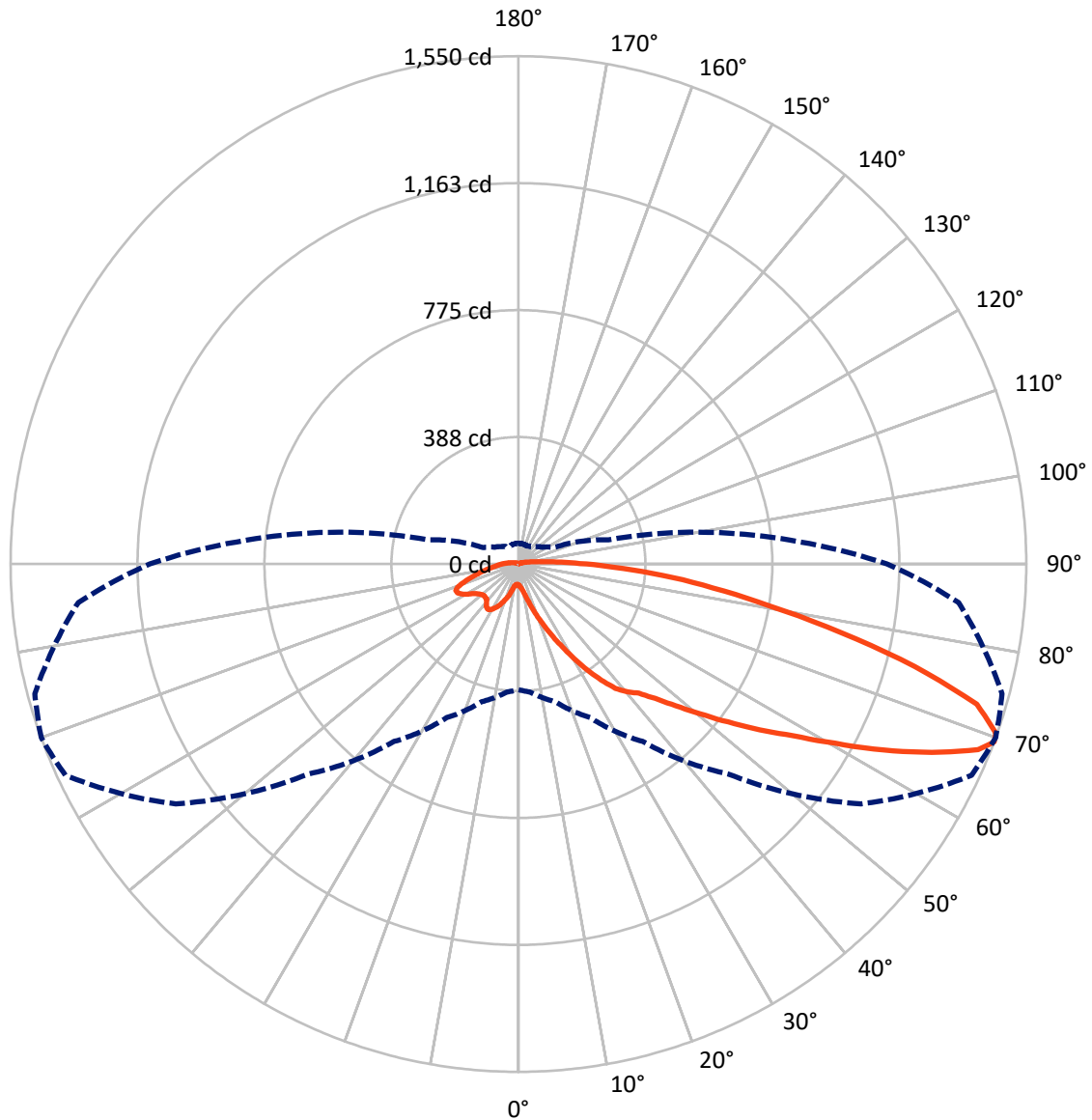


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P254418

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

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P254418

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

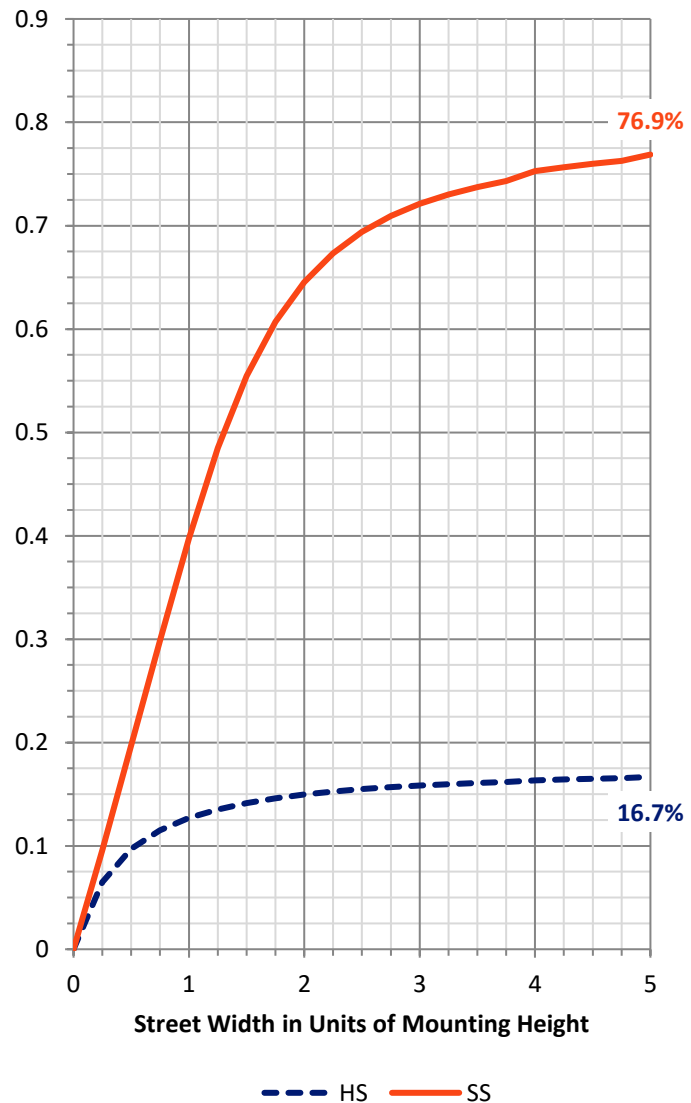
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	392.3	31.0	423.3
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	1781.3	51.0	1832.3
	% Fixture	79.0	2.3	81.2
Total	Lumens	2173.6	82.0	2255.6
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.3
10°-20°	29.0	1.3
20°-30°	80.6	3.6
30°-40°	170.2	7.5
40°-50°	285.6	12.7
50°-60°	430.6	19.1
60°-70°	560.3	24.8
70°-80°	438.1	19.4
80°-90°	172.6	7.7
90°-100°	51.2	2.3
100°-110°	16.8	0.7
110°-120°	7.2	0.3
120°-130°	3.9	0.2
130°-140°	2.1	0.1
140°-150°	0.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2173.6	96.4
0°-180°	2255.6	100.0

Coefficient of Utilization



REPORT NUMBER: P254418

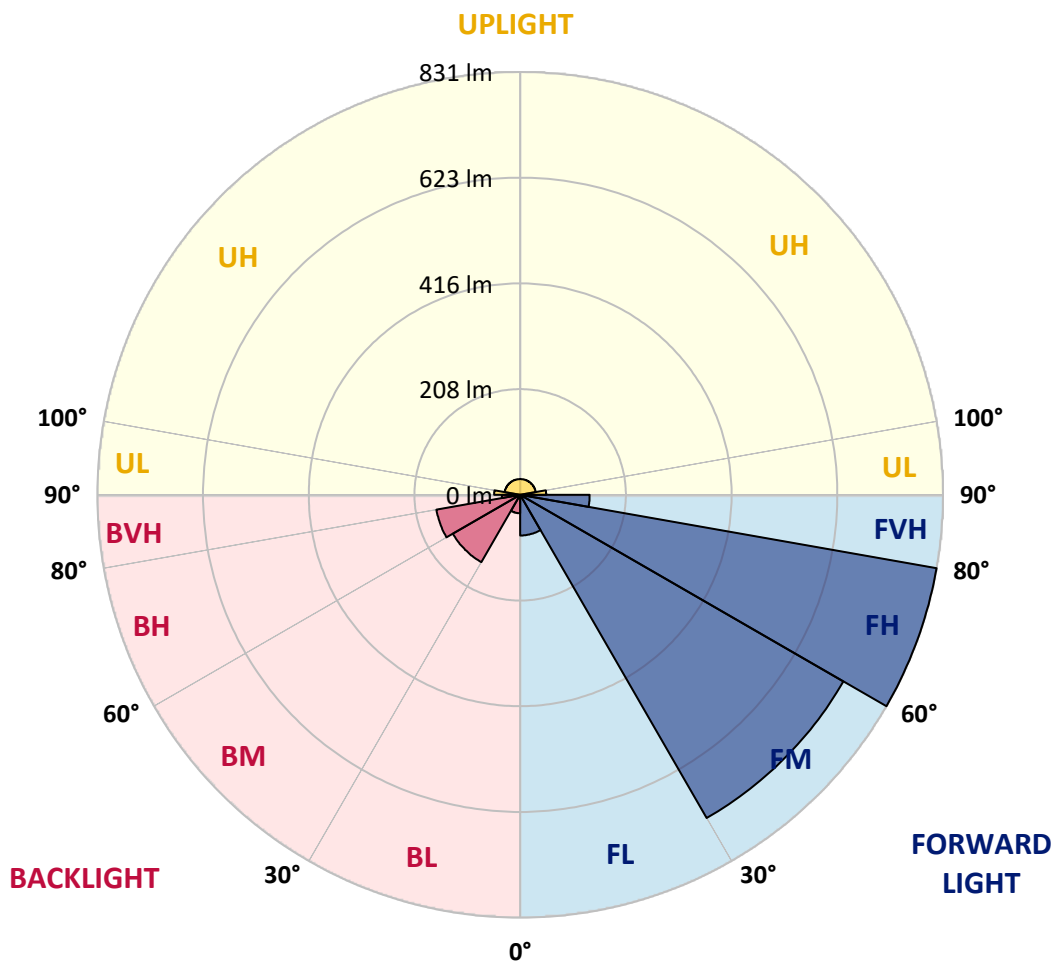
CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	80.0	3.5			
FM (30°-60°)	733.6	32.5			
FH (60°-80°)	831.2	36.8			G1/1800
FVH (80°-90°)	136.5	6.1			G2/225
BL (0°-30°)	36.3	1.6	B0/110		
BM (30°-60°)	152.8	6.8	B0/220		
BH (60°-80°)	167.2	7.4	B1/500		G1/500
BVH (80°-90°)	36.0	1.6			G1/100
UL (90°-100°)	51.2	2.3		U3/500	
UH (100°-180°)	31.0	1.4		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





REPORT NUMBER: P254418

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
2.5°	72.0	72.0	72.2	72.0	71.7	70.6	69.5	68.0	67.4	66.9	65.5
5°	80.2	80.2	79.9	79.3	78.8	76.8	75.1	72.8	71.7	70.6	68.0
7.5°	90.0	89.7	89.5	88.4	87.3	84.7	82.1	79.3	77.6	76.2	72.8
10°	101.9	101.6	101.4	99.3	97.7	94.8	92.3	88.6	87.3	85.2	80.4
12.5°	117.1	117.9	116.3	113.1	110.9	107.0	105.3	102.7	101.1	100.2	95.1
15°	136.4	136.9	134.6	129.6	126.4	122.5	123.1	123.4	122.5	122.5	116.3
17.5°	159.5	158.4	156.6	149.4	144.5	142.8	145.4	147.9	148.4	149.4	142.8
20°	188.5	189.1	184.0	173.3	165.7	166.2	169.4	174.1	176.5	178.4	171.7
22.5°	228.3	223.8	217.9	202.6	192.2	190.0	194.8	204.1	207.8	212.8	206.3
25°	271.0	266.5	256.0	238.6	222.7	215.9	223.8	239.9	246.1	254.6	249.0
27.5°	316.4	312.7	297.0	278.3	256.9	245.0	255.4	277.2	287.0	297.8	291.5
30°	365.3	361.0	342.4	320.4	293.3	278.3	286.5	317.8	334.2	348.8	346.1
32.5°	423.4	417.8	394.9	366.9	331.3	313.6	322.3	365.0	385.6	404.5	400.5
35°	488.4	485.5	455.0	419.4	375.7	350.6	362.7	409.0	435.0	455.0	449.7
37.5°	562.8	559.5	524.7	477.6	422.0	390.4	399.4	451.3	481.5	502.7	490.8
40°	632.3	628.9	594.4	539.1	470.3	432.1	439.8	486.0	513.4	530.6	508.9
42.5°	706.4	700.0	661.6	597.8	521.6	476.5	474.8	512.6	538.8	561.1	538.6
45°	772.0	770.3	729.1	656.0	573.3	520.0	508.9	551.0	585.4	615.3	592.2
47.5°	813.1	810.9	780.7	707.9	618.5	562.2	554.3	605.7	646.1	678.5	651.7
50°	835.2	834.3	812.9	747.5	663.6	608.9	614.5	672.6	718.1	758.7	729.9
52.5°	844.9	844.9	828.2	775.6	703.7	662.2	683.3	749.9	801.1	844.9	806.4
55°	843.6	843.9	826.7	782.5	735.6	718.1	761.8	841.4	893.0	940.2	895.3
57.5°	808.1	810.4	806.7	778.0	752.8	774.8	852.1	939.7	988.2	1032.8	982.5
60°	722.6	728.5	741.5	747.2	756.8	828.7	946.1	1050.6	1110.7	1165.1	1123.9
62.5°	639.9	645.0	663.1	687.6	746.0	869.6	1050.6	1202.7	1250.7	1302.9	1226.4
65°	539.4	547.3	582.6	629.1	720.1	898.5	1165.8	1345.3	1386.5	1411.6	1316.7
67.5°	438.3	445.7	488.0	562.2	686.2	915.1	1250.7	1472.2	1512.9	1515.5	1374.6
69°	383.6	391.8	435.3	517.1	661.0	906.0	1276.6	1525.9	1550.2	1528.2	1348.7
70°	354.2	354.2	402.5	486.0	639.0	889.4	1280.9	1529.8	1545.7	1513.1	1321.2
72.5°	256.9	259.7	310.2	407.5	568.8	822.2	1210.0	1453.9	1462.9	1375.8	1138.3
75°	176.2	178.9	223.5	316.7	477.8	715.6	1067.6	1257.5	1249.5	1153.6	920.5
77.5°	121.9	123.9	157.7	230.9	378.0	592.2	889.7	1028.0	1008.5	918.7	688.8
80°	85.5	87.5	113.4	171.7	286.7	466.1	705.3	805.3	777.0	697.1	505.8
82.5°	60.1	61.8	83.3	129.8	217.4	362.7	556.4	626.4	598.4	527.5	361.6
85°	42.9	44.0	60.4	98.8	166.5	270.4	422.3	469.4	440.9	375.4	240.2
87.5°	31.1	32.2	44.6	74.5	129.0	210.3	312.2	332.3	292.5	237.6	151.8
90°	23.4	24.2	33.6	55.9	100.5	154.4	223.5	216.5	187.4	149.9	101.4
92.5°	17.5	18.1	25.7	42.4	77.0	120.0	155.3	141.2	116.8	94.8	69.2
95°	13.0	13.5	19.4	31.9	57.0	86.1	101.4	87.3	72.8	60.1	47.2
97.5°	9.9	10.4	15.2	24.2	41.2	60.7	65.5	55.6	48.3	41.2	33.6
100°	7.9	8.2	11.9	18.6	29.7	41.5	45.1	38.7	33.9	30.2	25.4
102.5°	6.2	6.8	9.6	14.6	22.6	30.8	32.7	28.2	25.2	22.6	20.0
105°	5.3	5.6	7.9	11.9	17.8	23.1	24.9	21.2	18.6	17.0	15.5
107.5°	4.8	4.8	6.8	9.9	14.4	18.3	19.2	15.9	13.8	12.7	11.9



REPORT NUMBER: P254418

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	4.2	4.2	5.9	8.5	12.2	15.2	14.9	11.9	10.4	9.3	9.3
112.5°	4.0	4.0	5.1	7.7	10.4	12.7	11.9	9.3	8.2	7.1	7.7
115°	3.7	3.7	4.8	6.8	9.3	10.7	9.9	7.4	6.2	5.6	6.2
117.5°	3.7	3.7	4.5	6.2	8.5	9.3	8.5	6.2	5.1	4.8	5.3
120°	3.7	3.7	4.5	5.9	7.7	8.2	7.1	5.1	4.5	4.0	4.8
122.5°	3.7	3.7	4.2	5.6	7.1	7.4	6.2	4.5	3.7	3.7	4.2
125°	4.0	4.0	4.5	5.6	6.4	6.4	5.3	4.0	3.4	3.4	4.2
127.5°	4.2	4.2	4.5	5.3	5.9	5.6	4.8	3.7	3.4	3.4	4.0
130°	4.5	4.5	4.8	5.1	5.3	4.8	4.0	3.4	3.1	3.4	4.0
132.5°	4.5	4.5	4.5	4.8	4.8	4.2	3.4	2.9	2.9	3.1	3.7
135°	4.2	4.2	4.2	4.2	4.2	3.4	2.9	2.6	2.6	2.9	3.4
137.5°	3.7	3.7	3.4	3.4	3.4	2.9	2.3	1.9	1.9	2.3	2.9
140°	2.9	2.9	2.9	2.9	2.9	2.3	1.7	1.4	1.7	1.9	2.3
142.5°	2.3	2.3	2.3	2.3	2.3	1.7	1.1	1.4	1.7	1.7	1.9
145°	1.9	1.7	1.7	1.7	1.7	1.1	0.8	1.1	1.4	1.7	1.7
147.5°	1.4	1.4	1.4	1.4	1.1	0.6	0.6	1.1	1.1	1.4	1.7
150°	0.8	0.8	0.8	0.8	0.6	0.3	0.6	0.8	1.1	1.1	1.4
152.5°	0.3	0.3	0.6	0.6	0.3	0.0	0.3	0.6	0.8	0.8	1.1
155°	0.0	0.0	0.3	0.6	0.0	0.0	0.3	0.6	0.6	0.8	0.8
157.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.6	0.6	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	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



REPORT NUMBER: P254418

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
2.5°	64.7	64.0	62.9	62.1	61.0	60.1	60.1	59.2	59.2	59.0	58.7
5°	66.9	66.1	63.2	61.3	59.2	57.6	56.5	55.6	54.7	54.2	53.9
7.5°	71.1	69.2	65.2	61.8	58.4	55.9	53.6	52.2	51.0	50.8	50.2
10°	78.2	75.9	69.8	64.0	59.0	54.7	52.0	49.9	48.8	48.6	48.3
12.5°	92.1	88.6	79.6	70.3	60.7	54.2	50.5	50.2	50.5	51.0	51.4
15°	112.0	108.4	94.5	79.9	65.2	55.0	53.1	53.6	54.5	55.3	55.3
17.5°	136.6	130.4	111.8	90.6	70.9	60.1	55.6	56.2	57.9	59.2	59.2
20°	164.0	154.2	127.9	98.5	76.2	63.5	58.1	58.4	61.0	62.7	62.9
22.5°	197.3	182.3	144.8	105.0	79.3	65.0	59.8	60.1	64.0	66.9	67.2
25°	234.9	215.3	164.3	112.0	80.4	64.3	60.7	62.7	68.8	73.7	74.0
27.5°	272.4	245.6	179.2	116.8	79.6	62.7	61.3	65.5	73.1	77.6	78.2
30°	320.9	287.3	195.9	118.9	76.8	61.0	61.3	66.6	73.1	77.6	77.9
32.5°	369.2	323.5	209.4	120.2	73.7	59.5	60.4	65.2	71.4	76.5	76.8
35°	410.1	352.3	215.3	117.4	70.9	58.7	59.0	63.8	70.9	77.0	77.3
37.5°	440.3	370.9	214.8	110.7	67.4	57.9	58.1	63.5	71.4	78.2	79.1
40°	450.5	372.0	204.1	100.8	65.2	57.6	58.4	63.5	70.9	76.5	77.3
42.5°	474.2	381.9	196.7	92.1	63.5	58.1	59.2	62.7	68.0	73.3	74.5
45°	516.5	408.7	198.8	87.8	63.2	59.5	59.8	61.8	65.5	70.6	72.0
47.5°	562.2	436.1	199.6	85.5	64.7	61.0	60.7	61.0	62.9	67.2	68.6
50°	625.5	477.3	204.1	85.2	66.9	62.7	61.6	60.4	61.8	66.9	68.3
52.5°	690.7	521.1	211.4	87.0	70.3	65.0	62.7	60.7	61.8	66.3	68.3
55°	763.5	575.5	222.2	90.3	73.7	67.4	64.0	61.6	61.6	65.5	67.2
57.5°	843.9	631.7	236.3	94.8	77.3	70.3	65.2	61.8	61.3	63.8	65.2
60°	969.0	726.0	261.1	101.4	81.0	72.5	66.1	62.1	61.6	63.5	64.3
62.5°	1052.0	791.5	282.5	107.8	84.4	74.5	66.3	62.1	62.1	63.2	63.8
65°	1130.8	848.7	297.0	113.8	87.5	75.6	66.3	61.8	62.1	62.9	62.9
67.5°	1157.3	863.2	297.8	117.9	89.5	75.6	65.8	61.6	62.4	63.2	62.9
69°	1125.3	833.2	285.1	118.3	89.5	74.8	65.2	61.0	62.4	63.2	62.9
70°	1095.2	807.5	274.4	117.1	88.6	74.0	64.3	60.7	62.1	62.9	62.7
72.5°	925.0	667.6	232.3	111.5	85.5	71.1	61.8	58.7	60.7	61.8	61.3
75°	736.9	526.1	189.3	101.6	80.2	66.6	58.4	55.6	57.9	59.0	58.1
77.5°	549.3	389.5	151.6	91.8	74.3	62.7	54.7	51.7	53.4	53.9	53.1
80°	398.5	282.8	121.6	82.7	68.8	58.7	51.0	47.7	49.1	49.1	48.0
82.5°	281.7	201.0	98.2	73.7	63.2	55.3	48.0	44.3	46.3	46.0	44.9
85°	188.8	139.4	80.4	63.8	56.8	50.8	44.6	41.7	44.0	43.8	42.7
87.5°	125.0	99.6	67.4	55.3	49.7	45.1	40.6	38.7	40.9	40.4	39.0
90°	88.6	75.4	57.0	47.7	42.7	39.3	36.1	34.7	36.1	35.0	33.6
92.5°	63.8	56.5	46.9	40.1	35.6	33.3	31.3	30.2	31.1	29.4	28.2
95°	45.1	41.5	37.5	33.0	29.7	27.6	26.5	26.0	26.5	24.0	23.1
97.5°	33.0	31.3	29.7	27.4	24.6	23.4	22.6	22.0	22.0	19.4	18.9
100°	25.7	24.9	24.2	22.9	20.6	19.7	19.2	18.9	18.3	16.1	15.5
102.5°	20.6	20.4	20.4	18.9	17.2	16.7	16.1	15.9	15.2	13.3	12.7
105°	16.4	16.4	16.7	15.5	14.4	13.8	13.5	13.0	12.4	11.0	11.0
107.5°	13.0	13.0	13.5	12.7	12.2	11.6	11.3	10.7	10.1	9.3	9.3



REPORT NUMBER: P254418

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.1	10.4	11.3	10.7	10.1	9.9	9.6	8.8	8.2	7.9	7.9
112.5°	8.2	8.8	9.3	9.0	8.5	8.5	7.9	7.4	6.8	6.8	6.8
115°	7.1	7.4	7.9	7.7	7.4	7.1	6.8	5.9	5.6	5.6	5.9
117.5°	5.9	6.2	6.8	6.4	6.2	6.2	5.6	5.1	4.5	5.1	5.1
120°	5.1	5.3	5.6	5.6	5.3	5.3	4.8	4.2	3.7	4.2	4.2
122.5°	4.8	4.8	5.1	4.8	4.8	4.5	4.0	3.4	3.1	3.7	3.7
125°	4.5	4.5	4.5	4.2	4.2	4.0	3.4	2.9	2.6	3.1	3.1
127.5°	4.2	4.2	4.2	4.0	3.4	3.1	2.9	2.3	1.9	2.6	2.6
130°	4.2	4.2	3.7	3.4	3.1	2.6	2.3	1.7	1.7	2.3	2.3
132.5°	4.0	3.7	3.4	2.9	2.6	1.9	1.7	1.4	1.4	1.7	1.9
135°	3.4	3.4	2.9	2.3	1.9	1.4	1.4	0.8	1.1	1.4	1.4
137.5°	2.9	2.9	2.6	1.9	1.4	1.1	0.8	0.6	0.8	1.1	1.1
140°	2.6	2.3	1.9	1.7	1.1	0.6	0.6	0.3	0.6	0.6	0.8
142.5°	2.3	2.3	1.9	1.4	0.8	0.6	0.0	0.3	0.3	0.3	0.6
145°	1.9	1.9	1.7	1.1	0.8	0.3	0.0	0.3	0.3	0.3	0.0
147.5°	1.7	1.7	1.4	1.1	0.6	0.0	0.0	0.0	0.3	0.0	0.0
150°	1.4	1.4	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	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)