

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: P254463

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254463
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-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 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: 2221.3 lumens
Efficiency: N/A
Efficacy: 105.8 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 (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

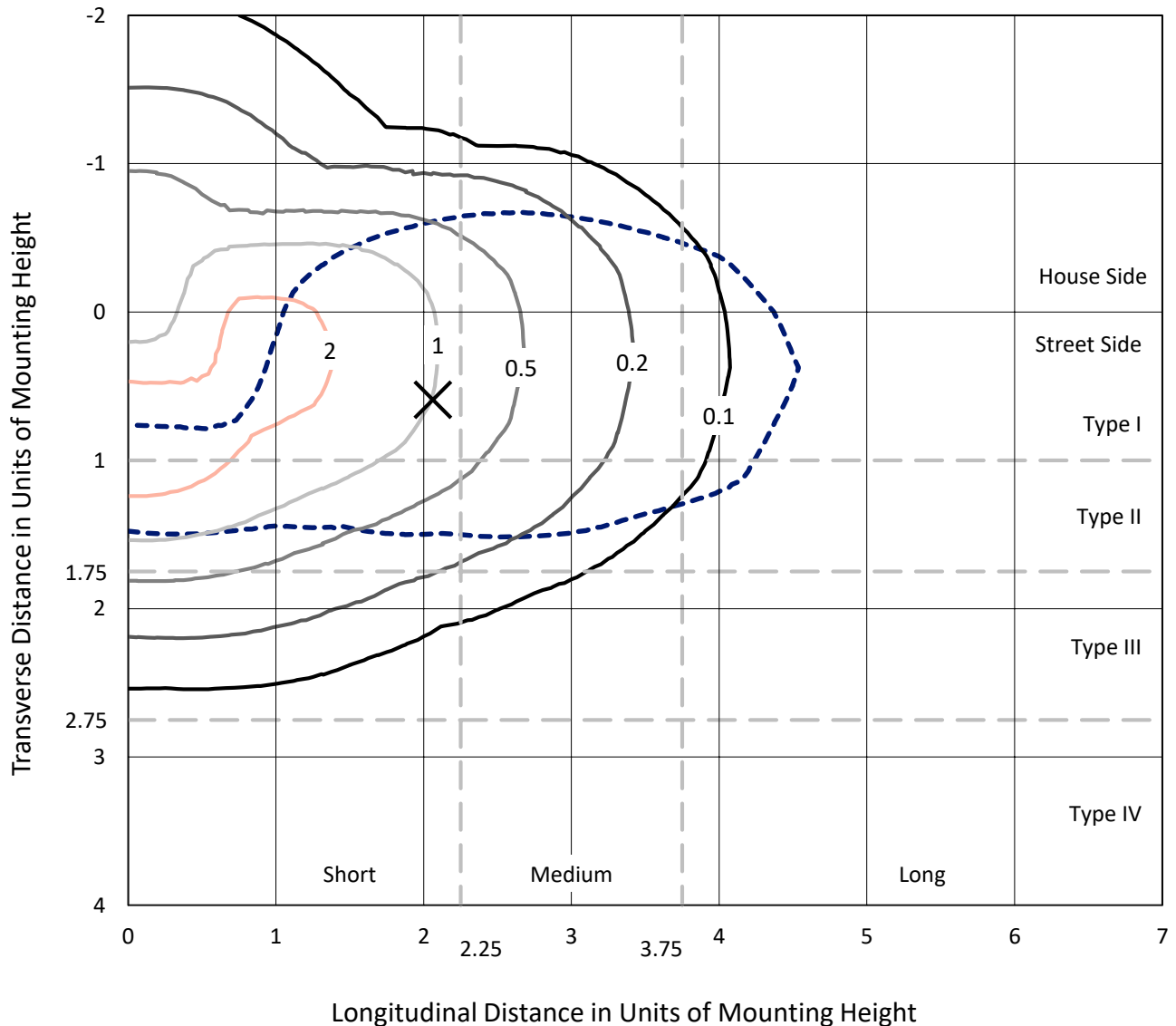


REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

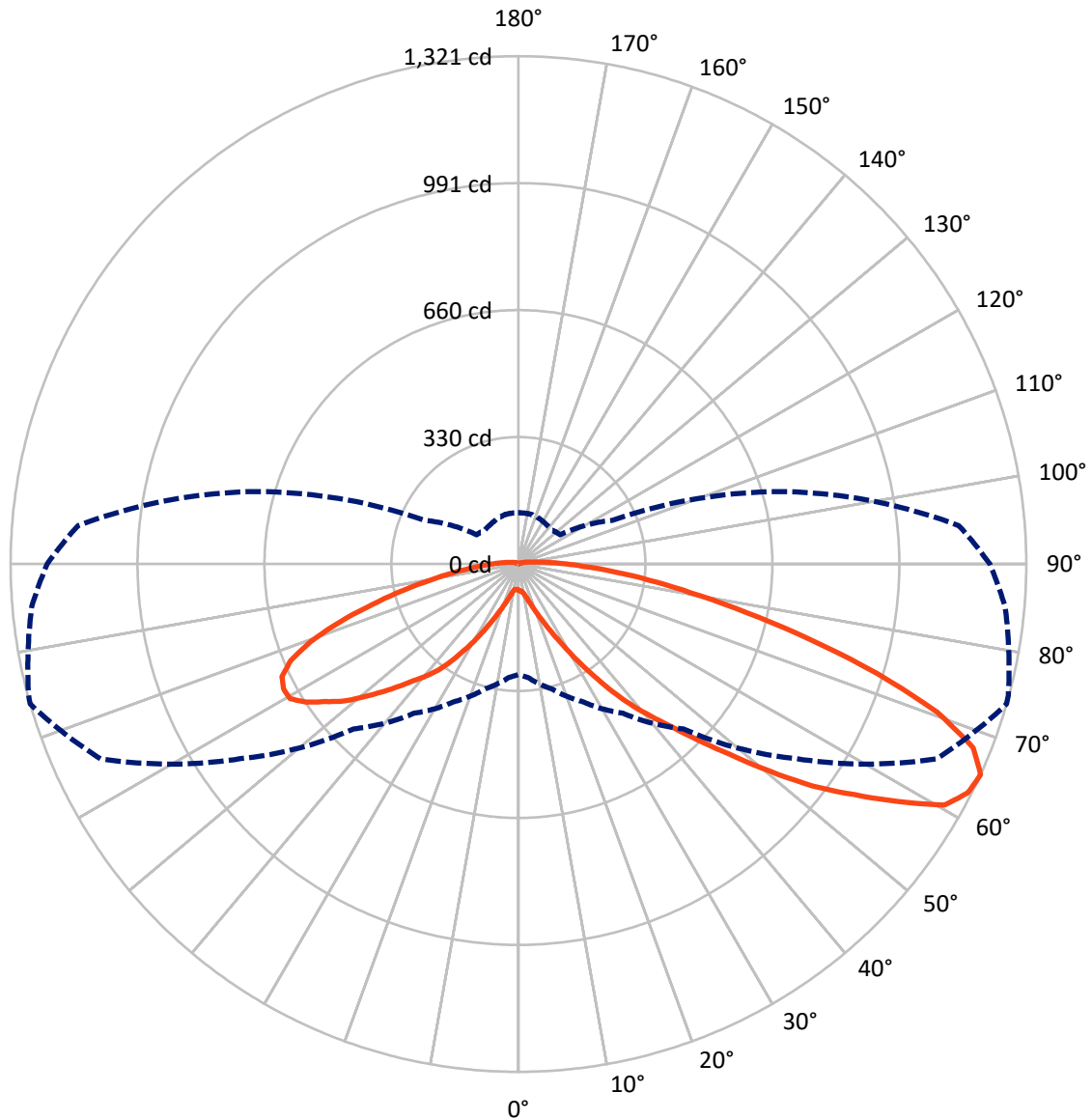


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

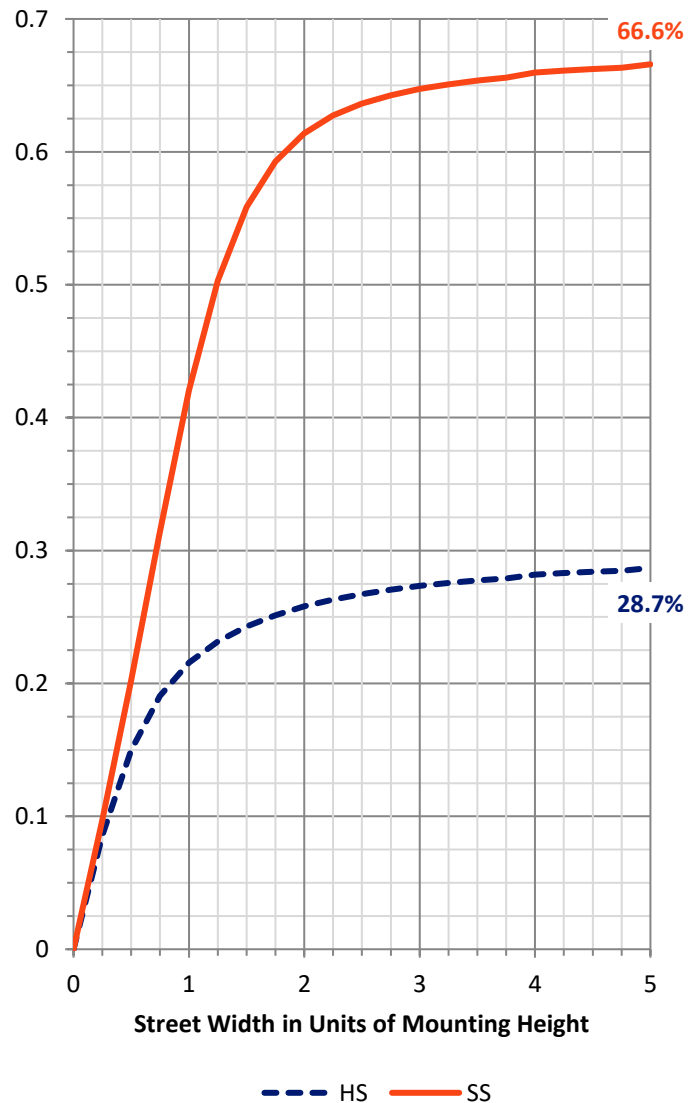
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	656.9	32.1	689.0
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	1499.6	32.7	1532.3
	% Fixture	67.5	1.5	69.0
Total	Lumens	2156.4	64.9	2221.3
	% Fixture	97.1	2.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.3
10°-20°	27.8	1.3
20°-30°	82.2	3.7
30°-40°	200.4	9.0
40°-50°	365.9	16.5
50°-60°	520.7	23.4
60°-70°	524.2	23.6
70°-80°	310.4	14.0
80°-90°	118.1	5.3
90°-100°	37.2	1.7
100°-110°	14.1	0.6
110°-120°	6.7	0.3
120°-130°	3.9	0.2
130°-140°	2.2	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2156.4	97.1
0°-180°	2221.3	100.0



REPORT NUMBER: P254463

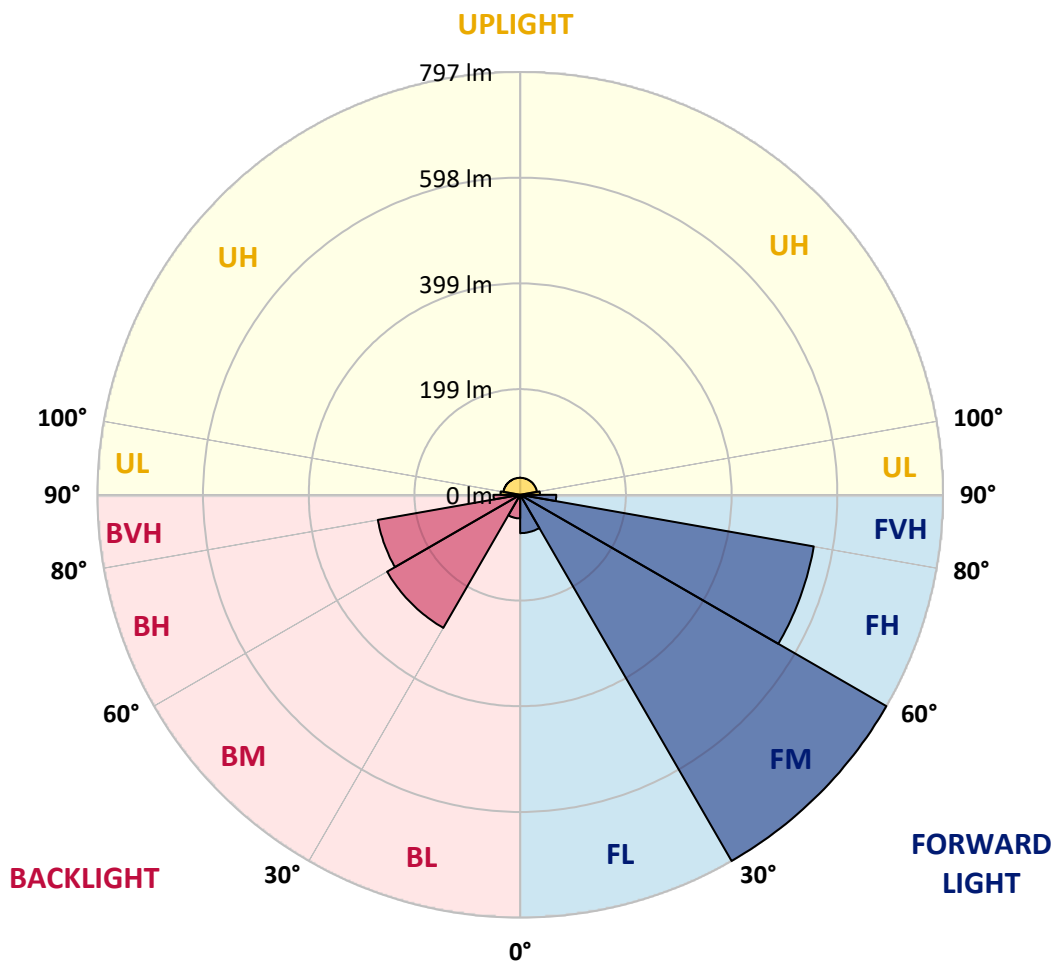
CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.3	3.3			
FM (30°-60°)	797.2	35.9			
FH (60°-80°)	562.1	25.3			G0/660
FVH (80°-90°)	67.9	3.1			G1/100
BL (0°-30°)	44.5	2.0	B0/110		
BM (30°-60°)	289.8	13.0	B1/1000		
BH (60°-80°)	272.4	12.3	B1/500		G1/500
BVH (80°-90°)	50.2	2.3			G1/100
UL (90°-100°)	37.2	1.7		U2/50	
UH (100°-180°)	32.1	1.4		U2/50	

BUG Rating: B1-U2-G1

Type II Short





REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
2.5°	73.1	72.8	73.1	72.8	72.8	72.3	71.6	70.5	69.4	69.2	68.3
5°	78.2	78.2	78.2	77.7	77.1	76.4	74.8	72.8	71.0	70.7	69.2
7.5°	85.1	85.4	84.9	83.8	82.7	80.7	78.7	76.1	73.6	73.4	71.0
10°	95.5	95.3	94.5	93.1	90.2	87.9	84.5	80.9	78.2	77.7	74.8
12.5°	110.0	109.7	108.3	104.6	100.6	96.0	92.9	89.4	86.8	86.5	83.8
15°	128.6	128.1	125.4	120.6	114.1	108.3	105.7	102.1	99.5	99.3	96.5
17.5°	151.6	151.0	147.3	140.4	131.5	124.9	122.0	118.0	115.0	115.3	111.3
20°	180.4	179.0	174.0	164.7	153.9	146.0	141.5	137.4	135.1	134.7	131.8
22.5°	217.5	215.7	206.6	195.3	182.0	171.1	165.2	160.9	159.3	159.6	156.9
25°	265.0	261.5	250.1	234.6	218.1	201.2	194.3	189.4	190.3	190.7	188.2
27.5°	321.3	319.7	302.1	283.4	258.8	237.2	230.9	226.0	227.6	229.0	226.8
30°	391.2	385.9	365.4	337.3	305.6	279.1	270.9	269.4	273.5	275.5	274.0
32.5°	471.6	467.0	439.0	403.5	357.4	326.1	316.6	320.7	327.7	329.9	328.3
35°	566.8	562.8	525.2	476.6	417.9	384.6	371.7	378.9	387.8	389.6	387.3
37.5°	665.3	663.2	622.1	558.4	486.5	443.3	432.3	442.7	452.2	453.7	445.7
40°	749.6	751.4	710.4	639.7	557.0	505.8	499.4	508.6	511.4	512.1	496.9
42.5°	818.3	819.3	783.5	712.1	623.1	570.9	567.4	572.2	572.9	572.9	555.4
45°	836.4	842.3	821.7	767.2	686.1	634.0	634.0	645.0	650.3	651.9	629.3
47.5°	844.7	849.0	837.2	797.9	736.9	695.2	709.1	734.4	739.8	742.8	713.6
50°	837.2	843.1	840.9	815.5	771.5	751.2	791.8	836.1	846.0	849.0	813.4
52.5°	778.5	790.2	807.9	812.4	792.5	797.9	875.6	950.3	959.1	960.7	908.2
55°	693.6	707.5	737.4	769.0	788.1	828.8	957.0	1060.8	1058.6	1059.7	999.4
57.5°	586.8	600.5	640.7	690.9	745.9	835.9	1005.8	1150.5	1165.1	1168.1	1110.9
60°	488.6	494.3	537.4	594.3	667.1	800.7	1005.8	1225.3	1273.0	1267.4	1190.0
62.5°	375.6	387.0	432.0	494.0	573.3	714.4	969.2	1249.0	1311.4	1303.7	1231.1
65°	287.5	296.7	336.5	395.0	473.9	606.3	882.5	1199.0	1320.7	1318.9	1270.5
67.5°	224.2	225.5	259.7	309.5	375.0	489.2	740.6	1102.2	1275.6	1275.4	1246.5
70°	169.5	170.8	198.6	244.7	289.5	374.1	591.4	944.4	1155.9	1152.3	1165.7
72.5°	129.5	131.0	153.0	189.8	222.6	279.3	450.7	759.5	975.9	981.0	1000.7
75°	100.1	101.7	118.8	147.3	170.6	205.0	325.6	571.9	782.4	790.7	832.1
77.5°	77.1	78.7	92.4	113.9	131.0	150.2	226.8	419.5	605.3	615.9	662.1
80°	59.2	60.8	72.8	88.3	102.1	113.9	159.8	300.5	455.5	467.5	521.1
82.5°	45.9	47.5	57.7	70.2	82.0	89.9	116.4	214.0	339.7	349.6	405.4
85°	35.5	36.8	45.4	55.2	66.4	73.6	89.1	151.6	243.8	252.2	296.2
87.5°	27.6	28.5	35.5	43.4	53.9	61.0	71.0	110.3	167.2	173.7	203.1
90°	20.9	21.9	27.6	33.7	42.7	50.5	56.9	79.2	115.0	118.8	133.8
92.5°	15.2	16.1	20.5	25.1	32.6	40.0	45.4	58.7	78.2	80.1	86.5
95°	11.5	12.0	15.2	18.7	24.6	30.9	35.2	43.2	52.6	53.6	55.7
97.5°	9.1	9.3	11.7	14.4	18.9	24.0	27.2	31.8	37.1	37.5	38.7
100°	7.7	7.9	9.9	12.0	15.2	19.2	21.7	24.6	27.6	27.8	28.5
102.5°	6.7	7.0	8.3	9.9	12.8	16.1	17.6	19.4	21.1	20.9	21.7
105°	5.9	5.9	7.2	8.5	10.9	13.3	14.4	15.6	16.1	16.1	16.5
107.5°	5.0	5.4	6.1	7.4	9.7	11.5	12.0	12.2	12.2	12.2	12.8
110°	4.6	4.6	5.4	6.4	8.3	9.9	10.2	9.9	9.7	9.7	10.2



REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	4.1	4.1	4.6	5.9	7.4	8.8	8.8	8.3	7.4	7.4	7.9
115°	3.5	3.8	4.1	5.4	7.0	7.9	7.7	7.0	6.1	6.1	6.7
117.5°	3.2	3.2	3.8	4.8	6.4	7.2	7.0	5.9	5.0	5.0	5.6
120°	3.2	3.2	3.5	4.6	5.9	6.7	6.1	5.0	4.3	4.3	5.0
122.5°	3.2	3.2	3.5	4.3	5.4	5.9	5.6	4.6	3.8	3.8	4.3
125°	3.5	3.5	3.5	4.3	5.0	5.6	5.0	4.3	3.5	3.5	3.8
127.5°	3.8	3.8	3.8	4.3	4.8	5.0	4.6	3.8	3.2	3.2	3.5
130°	4.1	4.1	3.8	4.1	4.6	4.6	4.3	3.5	2.9	2.9	3.5
132.5°	4.1	4.1	3.8	3.8	4.1	4.1	3.8	2.9	2.6	2.6	3.2
135°	3.8	3.8	3.5	3.5	3.5	3.5	2.9	2.4	2.4	2.4	2.6
137.5°	3.5	3.5	3.2	3.2	3.2	2.9	2.4	1.8	1.8	1.8	2.4
140°	2.9	2.9	2.9	2.6	2.6	2.4	1.8	1.6	1.6	1.6	1.8
142.5°	2.6	2.4	2.4	2.1	2.1	1.8	1.3	1.1	1.1	1.1	1.3
145°	2.1	2.1	1.8	1.6	1.6	1.3	0.8	0.5	0.8	0.8	1.1
147.5°	1.6	1.6	1.3	1.3	1.1	0.8	0.2	0.5	0.5	0.5	0.8
150°	1.1	1.1	1.1	0.8	0.5	0.2	0.2	0.2	0.2	0.5	0.5
152.5°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.2	0.2	0.2	0.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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



REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
2.5°	67.7	67.5	66.9	65.9	65.7	65.1	64.4	64.0	63.5	63.8	63.5
5°	68.3	67.7	65.9	64.9	63.5	62.8	62.0	61.4	60.8	60.5	60.3
7.5°	69.6	68.9	66.7	64.6	62.8	61.4	60.3	59.5	59.0	58.7	58.5
10°	73.1	72.0	68.9	65.9	63.0	61.0	59.8	59.0	58.5	58.5	58.5
12.5°	81.6	80.3	75.5	70.5	65.7	62.8	61.0	62.2	63.5	64.9	65.7
15°	94.0	92.4	86.5	79.2	72.0	67.7	68.1	70.2	71.8	73.4	73.6
17.5°	109.4	107.3	99.9	90.2	80.7	77.1	76.1	78.2	80.9	82.5	83.2
20°	128.6	125.9	116.4	103.0	93.4	88.3	85.9	86.8	89.7	92.4	92.7
22.5°	153.2	148.4	137.1	118.8	106.7	99.0	95.5	95.5	99.5	103.0	103.6
25°	184.4	179.8	162.0	138.8	121.2	109.4	105.4	106.2	111.6	116.1	116.6
27.5°	222.9	216.5	193.0	162.5	136.1	118.4	114.1	116.4	121.8	126.5	127.1
30°	268.8	258.6	228.7	188.2	150.8	127.7	120.8	123.6	128.4	133.4	133.4
32.5°	320.7	308.7	269.0	215.3	164.7	134.0	124.7	128.1	132.9	138.0	137.6
35°	377.1	363.2	311.0	242.9	177.2	138.5	126.5	130.4	136.1	142.2	142.2
37.5°	434.2	420.1	353.0	267.3	186.0	139.1	127.1	132.9	140.4	146.0	145.5
40°	481.2	461.9	387.3	285.0	189.8	137.6	127.9	134.3	139.9	142.2	141.7
42.5°	537.4	513.0	421.0	294.1	187.4	135.3	128.1	132.6	135.3	135.3	134.3
45°	605.6	577.6	463.3	303.7	181.2	132.6	126.7	129.5	129.5	127.3	125.6
47.5°	688.0	650.1	507.8	312.3	175.1	130.2	125.4	126.5	123.6	120.4	119.3
50°	784.1	738.1	557.0	318.4	169.3	128.4	124.9	124.3	122.3	119.0	118.0
52.5°	872.7	821.2	607.9	323.2	163.1	127.7	124.9	124.9	122.8	118.2	117.1
55°	960.0	905.0	648.8	320.4	156.3	127.9	125.9	126.5	123.6	119.0	118.0
57.5°	1069.8	1010.6	697.3	315.8	149.4	128.4	127.1	127.7	124.9	120.6	119.5
60°	1146.2	1080.6	732.0	308.2	143.0	128.4	127.7	128.4	127.7	125.4	124.7
62.5°	1191.6	1118.5	735.8	291.1	138.2	127.3	127.1	129.7	131.5	130.8	130.0
65°	1225.7	1149.4	727.4	269.0	132.6	124.3	125.6	130.0	133.2	133.4	133.2
67.5°	1199.3	1120.6	687.5	243.1	125.9	120.6	123.3	128.1	132.9	134.5	134.3
70°	1118.2	1040.8	618.6	211.3	118.2	114.7	118.4	124.9	130.0	131.8	131.3
72.5°	951.4	882.3	523.9	181.0	109.2	107.0	111.0	118.4	122.8	123.8	123.0
75°	787.5	726.7	420.5	149.1	99.3	97.5	101.2	107.0	110.0	110.0	108.6
77.5°	629.6	572.9	331.2	123.8	89.1	87.0	90.4	94.0	94.5	92.7	91.2
80°	494.5	441.1	250.9	102.4	78.7	76.6	77.7	79.8	80.7	77.1	75.3
82.5°	383.5	335.8	188.4	84.9	68.7	65.9	66.7	67.7	68.1	63.8	61.6
85°	276.4	240.5	138.2	71.6	59.0	56.6	56.3	56.6	56.9	53.1	51.3
87.5°	189.8	164.7	101.2	60.1	51.1	48.6	48.1	47.7	47.7	43.8	41.8
90°	124.9	110.5	75.3	50.7	43.2	40.9	39.8	39.5	39.0	34.8	33.1
92.5°	81.2	74.2	55.7	41.6	35.7	33.7	32.3	31.4	30.7	26.7	25.1
95°	53.1	50.1	42.2	33.4	28.9	27.0	25.9	24.8	23.7	20.3	19.2
97.5°	37.5	36.6	32.8	27.0	23.0	21.7	20.9	20.0	19.2	16.3	15.8
100°	28.3	28.0	26.4	22.2	18.7	17.9	17.1	16.5	16.1	13.8	13.3
102.5°	21.9	22.2	21.7	18.1	15.8	15.0	14.4	13.8	13.6	12.0	11.7
105°	17.1	17.6	17.4	15.2	13.3	12.8	12.2	11.7	11.5	10.4	10.4
107.5°	13.3	13.8	14.1	12.6	11.5	10.9	10.4	9.9	9.9	9.3	9.3
110°	10.7	11.3	11.7	10.7	9.9	9.7	9.1	8.5	8.3	8.3	8.3



REPORT NUMBER: P254463

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T2U-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	8.8	9.1	9.7	9.1	8.5	8.3	7.7	7.2	7.2	7.2	7.4
115°	7.2	7.7	7.9	7.7	7.4	7.4	6.7	6.1	5.9	6.4	6.4
117.5°	6.1	6.7	7.0	6.7	6.7	6.7	5.9	5.4	5.0	5.4	5.6
120°	5.4	5.6	5.9	5.9	5.9	5.9	5.4	4.6	4.3	4.8	4.8
122.5°	4.6	4.8	5.0	5.4	5.4	5.0	4.6	4.1	3.8	4.3	4.3
125°	4.1	4.3	4.6	4.8	4.8	4.6	4.1	3.5	3.2	3.8	3.8
127.5°	3.8	4.1	4.3	4.3	4.3	4.1	3.5	2.9	2.9	3.2	3.5
130°	3.8	3.8	4.1	4.1	3.8	3.5	2.9	2.4	2.4	2.9	2.9
132.5°	3.5	3.5	3.5	3.5	3.2	2.9	2.4	2.1	2.1	2.6	2.6
135°	2.9	2.9	2.9	2.9	2.6	2.4	2.1	1.6	1.8	2.1	2.1
137.5°	2.4	2.4	2.4	2.4	2.1	1.8	1.6	1.3	1.3	1.6	1.8
140°	1.8	2.1	2.1	1.8	1.6	1.6	1.1	0.8	1.1	1.3	1.3
142.5°	1.6	1.6	1.6	1.3	1.3	1.1	0.8	0.5	0.8	1.1	1.1
145°	1.3	1.3	1.3	1.3	1.1	0.5	0.2	0.2	0.5	0.5	0.5
147.5°	1.1	1.1	1.1	1.1	0.8	0.5	0.0	0.0	0.2	0.2	0.2
150°	0.8	0.8	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	0.5	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.2	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.2	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)