

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: P254409

Luminaire Tested: **LXF.LXT-AF24-20-D-U-SL3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254409
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-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 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: 2132.8 lumens
Efficiency: N/A
Efficacy: 101.6 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 - U2 - 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

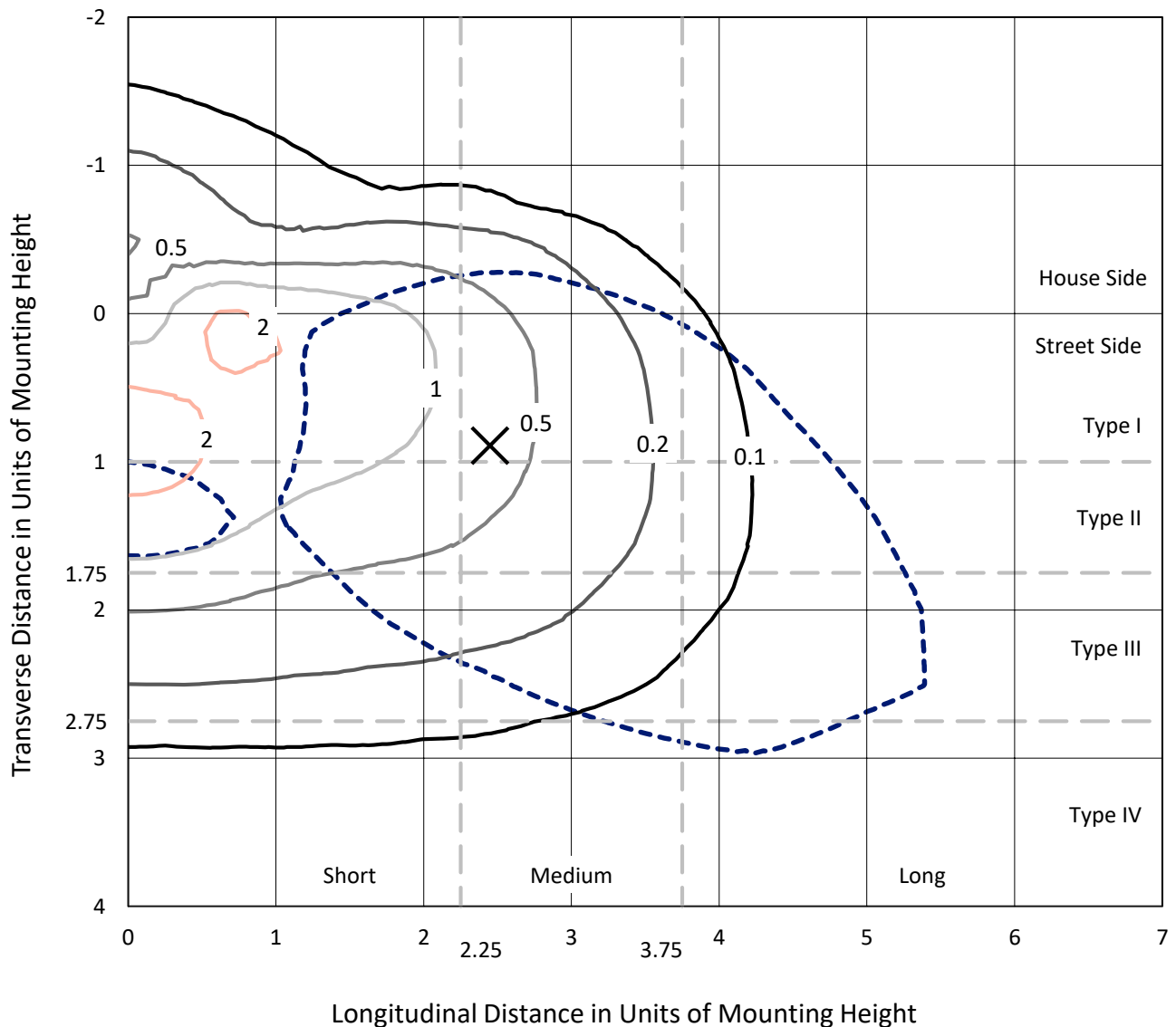


REPORT NUMBER: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

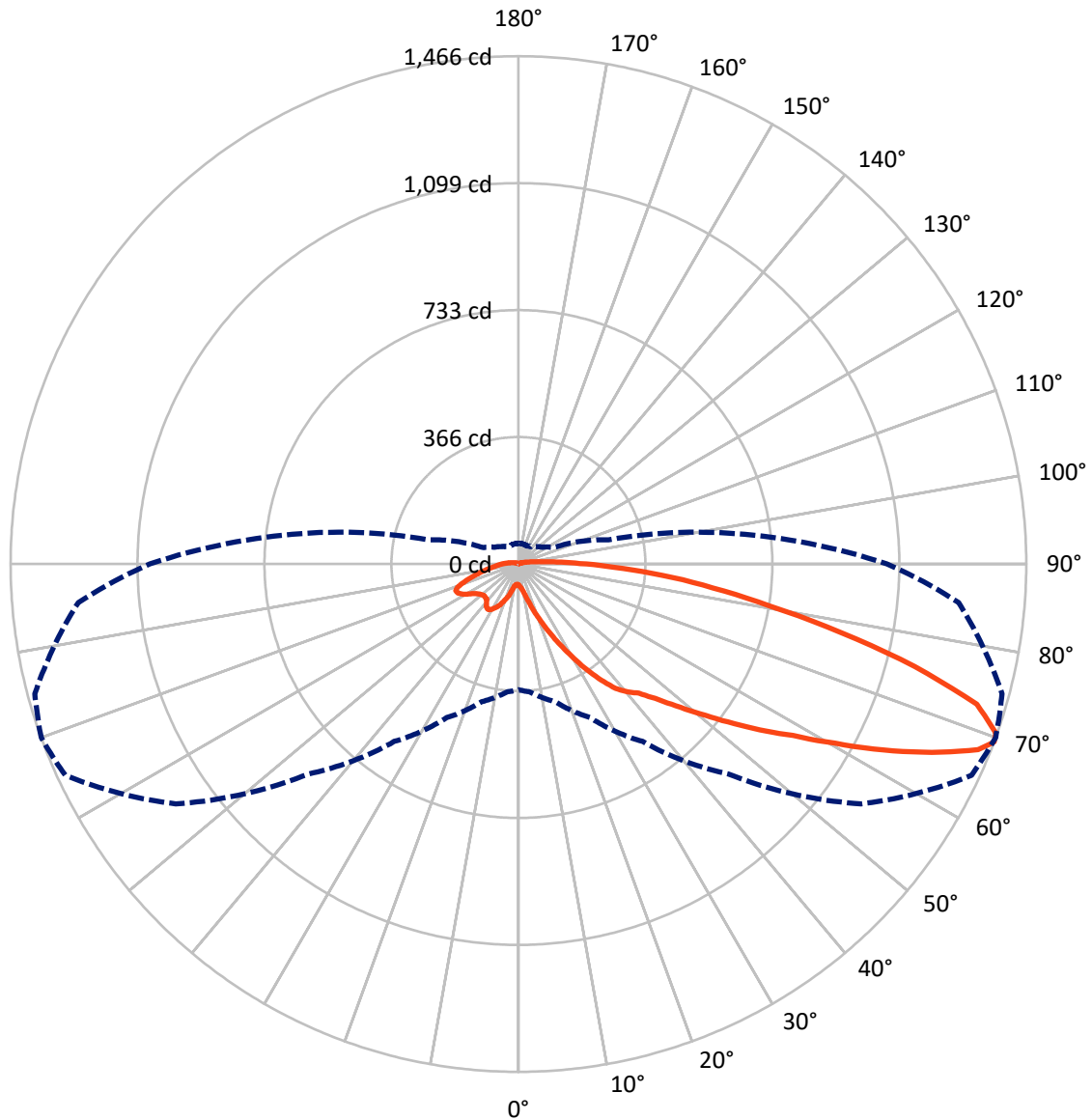


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

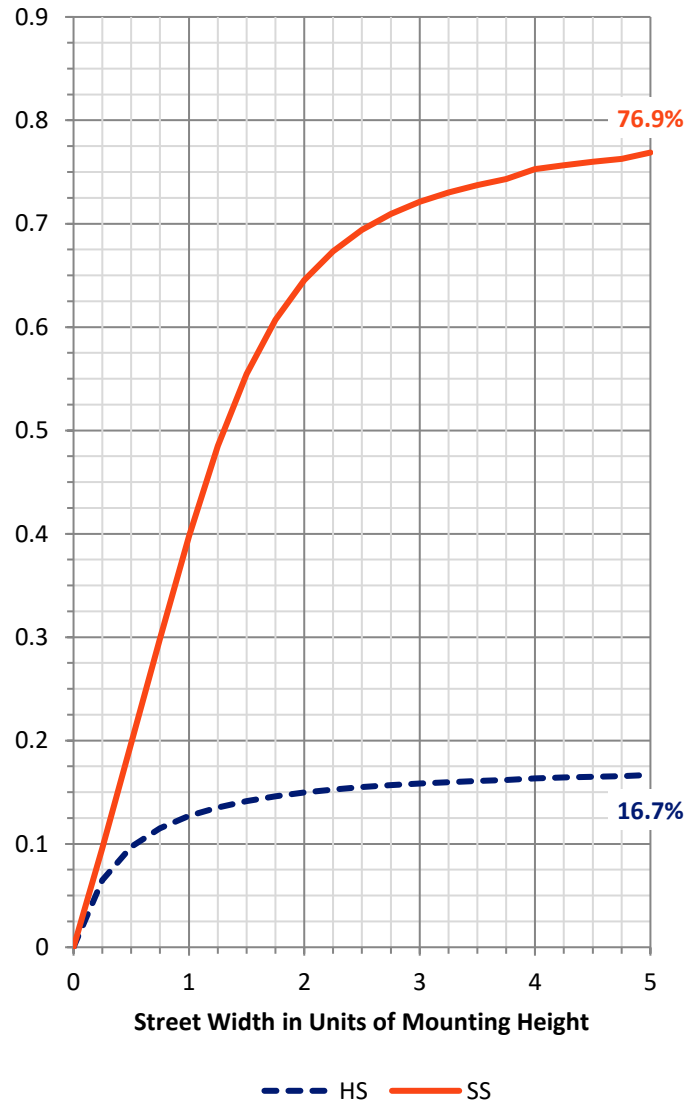
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	371.0	29.3	400.3
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	1684.2	48.3	1732.5
	% Fixture	79.0	2.3	81.2
Total	Lumens	2055.2	77.6	2132.8
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.3
10°-20°	27.4	1.3
20°-30°	76.2	3.6
30°-40°	161.0	7.5
40°-50°	270.0	12.7
50°-60°	407.1	19.1
60°-70°	529.7	24.8
70°-80°	414.3	19.4
80°-90°	163.2	7.7
90°-100°	48.4	2.3
100°-110°	15.9	0.7
110°-120°	6.8	0.3
120°-130°	3.7	0.2
130°-140°	2.0	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°	2055.2	96.4
0°-180°	2132.8	100.0

Coefficient of Utilization



REPORT NUMBER: P254409

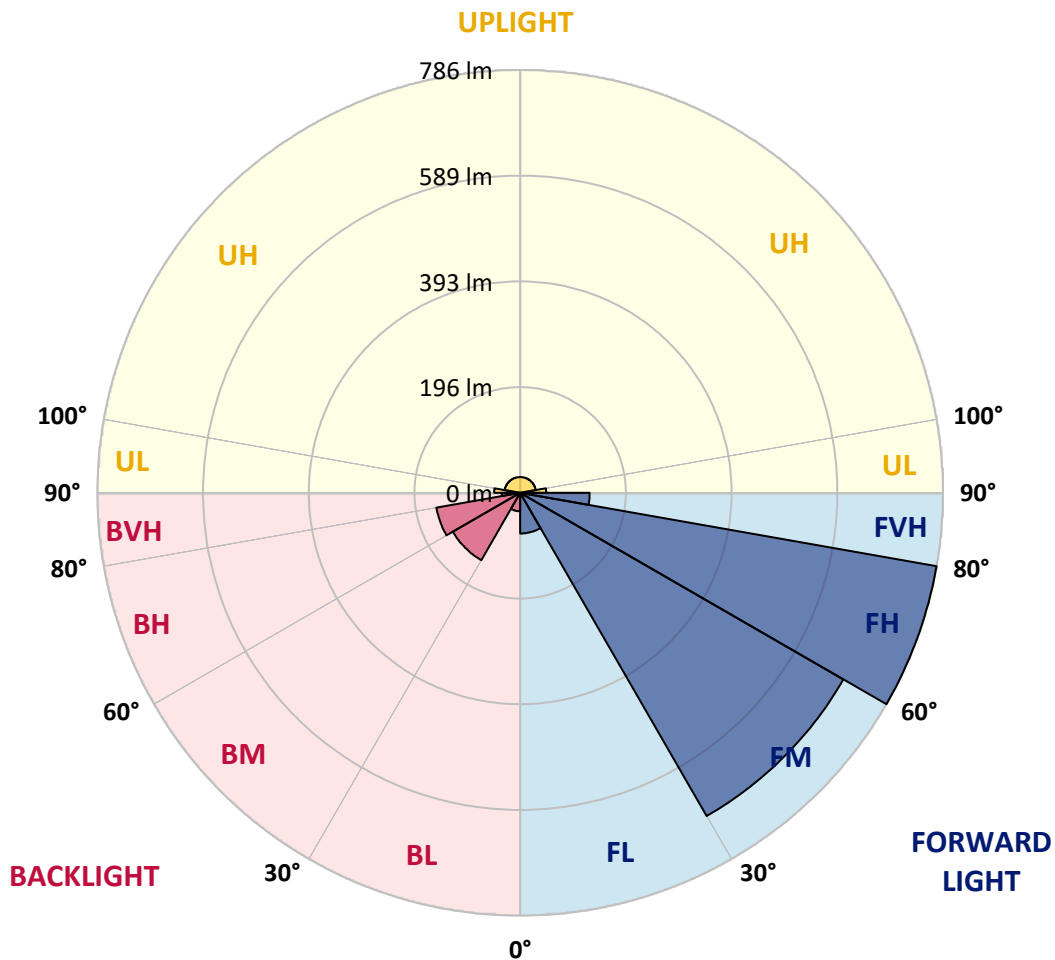
CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.6	3.5			
FM	(30°-60°)	693.6	32.5			
FH	(60°-80°)	785.9	36.8			G1/1800
FVH	(80°-90°)	129.1	6.1			G2/225
BL	(0°-30°)	34.3	1.6	B0/110		
BM	(30°-60°)	144.5	6.8	B0/220		
BH	(60°-80°)	158.1	7.4	B1/500		G1/500
BVH	(80°-90°)	34.1	1.6			G1/100
UL	(90°-100°)	48.4	2.3		U2/50	
UH	(100°-180°)	29.3	1.4		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium





REPORT NUMBER: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
2.5°	68.1	68.1	68.3	68.1	67.7	66.7	65.7	64.4	63.8	63.3	62.0
5°	75.8	75.8	75.5	75.0	74.6	72.5	71.0	68.9	67.7	66.7	64.4
7.5°	85.1	84.9	84.5	83.6	82.5	80.1	77.7	75.0	73.4	72.1	68.9
10°	96.3	96.0	95.8	94.0	92.4	89.7	87.3	83.8	82.5	80.7	76.1
12.5°	110.8	111.6	110.0	107.1	104.9	101.2	99.5	97.1	95.5	94.7	89.9
15°	128.9	129.5	127.3	122.5	119.5	115.9	116.4	116.6	115.9	115.9	110.0
17.5°	150.8	149.6	148.1	141.2	136.7	135.1	137.4	139.9	140.4	141.2	135.1
20°	178.3	178.8	174.0	163.9	156.7	157.3	160.2	164.7	166.8	168.7	162.2
22.5°	215.9	211.6	206.1	191.6	181.7	179.6	184.1	193.0	196.4	201.2	195.1
25°	256.2	252.0	242.1	225.5	210.6	204.2	211.6	226.8	232.7	240.7	235.4
27.5°	299.2	295.6	280.8	263.1	242.9	231.6	241.6	262.1	271.4	281.6	275.7
30°	345.4	341.3	323.7	302.8	277.3	263.1	270.9	300.5	316.0	329.9	327.2
32.5°	400.3	395.0	373.3	346.9	313.3	296.5	304.9	345.0	364.6	382.4	378.7
35°	461.7	459.0	430.3	396.6	355.2	331.5	343.0	386.7	411.3	430.3	425.1
37.5°	532.2	529.0	496.1	451.6	399.1	369.1	377.6	426.7	455.3	475.3	464.2
40°	597.8	594.6	562.0	509.8	444.6	408.6	415.8	459.6	485.4	501.7	481.2
42.5°	668.0	661.9	625.6	565.3	493.2	450.4	448.9	484.7	509.4	530.6	509.2
45°	730.0	728.3	689.3	620.3	542.0	491.5	481.2	520.9	553.5	581.8	560.0
47.5°	768.8	766.8	738.1	669.3	584.7	531.6	524.1	572.7	610.9	641.6	616.2
50°	789.7	789.0	768.6	706.7	627.4	575.7	581.0	636.0	678.9	717.4	690.2
52.5°	798.8	798.8	783.1	733.3	665.4	626.2	646.2	709.1	757.3	798.8	762.5
55°	797.7	798.0	781.7	739.8	695.6	678.9	720.3	795.6	844.5	889.1	846.5
57.5°	764.0	766.2	762.7	735.6	711.9	732.6	805.7	888.5	934.3	976.6	929.0
60°	683.2	688.9	701.1	706.5	715.5	783.6	894.7	993.3	1050.2	1101.7	1062.8
62.5°	605.1	609.8	626.9	650.1	705.4	822.2	993.3	1137.2	1182.6	1231.9	1159.6
65°	510.0	517.5	550.8	594.9	680.8	849.5	1102.2	1272.0	1310.9	1334.7	1245.0
67.5°	414.4	421.4	461.4	531.6	648.8	865.3	1182.6	1392.1	1430.5	1432.9	1299.7
69°	362.7	370.4	411.6	488.9	625.1	856.7	1207.1	1442.8	1465.7	1445.0	1275.2
70°	335.0	335.0	380.6	459.6	604.2	841.0	1211.1	1446.5	1461.5	1430.8	1249.3
72.5°	242.9	245.5	293.4	385.3	537.8	777.5	1144.2	1374.7	1383.2	1300.8	1076.3
75°	166.5	169.3	211.4	299.5	451.8	676.6	1009.3	1189.0	1181.5	1090.7	870.4
77.5°	115.3	117.1	149.1	218.3	357.4	560.0	841.2	972.0	953.7	868.7	651.1
80°	80.9	82.7	107.3	162.2	271.2	440.7	666.9	761.4	734.8	659.2	478.2
82.5°	56.9	58.5	78.7	122.8	205.5	343.0	526.1	592.1	565.8	498.8	341.9
85°	40.5	41.6	57.2	93.4	157.5	255.6	399.3	443.8	416.9	355.0	227.2
87.5°	29.4	30.4	42.2	70.5	122.0	198.9	295.2	314.1	276.5	224.7	143.5
90°	22.2	23.0	31.8	52.9	95.0	146.0	211.4	204.8	177.2	141.7	95.8
92.5°	16.5	17.1	24.2	40.0	72.8	113.4	146.7	133.4	110.5	89.7	65.3
95°	12.2	12.8	18.5	30.1	53.9	81.4	95.8	82.5	68.9	56.9	44.6
97.5°	9.3	9.9	14.4	23.0	39.0	57.4	62.0	52.6	45.7	39.0	31.8
100°	7.4	7.7	11.3	17.6	28.0	39.3	42.7	36.6	32.0	28.5	24.0
102.5°	5.9	6.4	9.1	13.8	21.3	29.1	30.9	26.7	23.7	21.3	18.9
105°	5.0	5.4	7.4	11.3	16.8	21.9	23.5	20.0	17.6	16.1	14.6
107.5°	4.6	4.6	6.4	9.3	13.6	17.4	18.1	15.0	13.1	12.0	11.3



REPORT NUMBER: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	4.1	4.1	5.6	7.9	11.5	14.4	14.1	11.3	9.9	8.8	8.8
112.5°	3.8	3.8	4.8	7.2	9.9	12.0	11.3	8.8	7.7	6.7	7.2
115°	3.5	3.5	4.6	6.4	8.8	10.2	9.3	7.0	5.9	5.4	5.9
117.5°	3.5	3.5	4.3	5.9	7.9	8.8	7.9	5.9	4.8	4.6	5.0
120°	3.5	3.5	4.3	5.6	7.2	7.7	6.7	4.8	4.3	3.8	4.6
122.5°	3.5	3.5	4.1	5.4	6.7	7.0	5.9	4.3	3.5	3.5	4.1
125°	3.8	3.8	4.3	5.4	6.1	6.1	5.0	3.8	3.2	3.2	4.1
127.5°	4.1	4.1	4.3	5.0	5.6	5.4	4.6	3.5	3.2	3.2	3.8
130°	4.3	4.3	4.6	4.8	5.0	4.6	3.8	3.2	2.9	3.2	3.8
132.5°	4.3	4.3	4.3	4.6	4.6	4.1	3.2	2.6	2.6	2.9	3.5
135°	4.1	4.1	4.1	4.1	4.1	3.2	2.6	2.4	2.4	2.6	3.2
137.5°	3.5	3.5	3.2	3.2	3.2	2.6	2.1	1.8	1.8	2.1	2.6
140°	2.6	2.6	2.6	2.6	2.6	2.1	1.6	1.3	1.6	1.8	2.1
142.5°	2.1	2.1	2.1	2.1	2.1	1.6	1.1	1.3	1.6	1.6	1.8
145°	1.8	1.6	1.6	1.6	1.6	1.1	0.8	1.1	1.3	1.6	1.6
147.5°	1.3	1.3	1.3	1.3	1.1	0.5	0.5	1.1	1.1	1.3	1.6
150°	0.8	0.8	0.8	0.8	0.5	0.2	0.5	0.8	1.1	1.1	1.3
152.5°	0.2	0.2	0.5	0.5	0.2	0.0	0.2	0.5	0.8	0.8	1.1
155°	0.0	0.0	0.2	0.5	0.0	0.0	0.2	0.5	0.5	0.8	0.8
157.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.5	0.5	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
2.5°	61.0	60.5	59.5	58.7	57.7	56.9	56.9	56.0	56.0	55.8	55.5
5°	63.3	62.5	59.8	57.9	56.0	54.4	53.4	52.6	51.8	51.3	51.1
7.5°	67.3	65.3	61.6	58.5	55.2	52.9	50.7	49.3	48.3	48.1	47.5
10°	74.0	71.8	65.9	60.5	55.8	51.8	49.0	47.2	46.2	45.9	45.7
12.5°	87.0	83.8	75.3	66.4	57.4	51.3	47.7	47.5	47.7	48.3	48.6
15°	106.0	102.4	89.4	75.5	61.6	52.0	50.1	50.7	51.5	52.3	52.3
17.5°	129.2	123.4	105.7	85.7	66.9	56.9	52.6	53.1	54.7	56.0	56.0
20°	155.0	145.8	121.0	93.1	72.1	60.1	54.9	55.2	57.7	59.2	59.5
22.5°	186.5	172.4	136.9	99.3	75.0	61.4	56.6	56.9	60.5	63.3	63.5
25°	222.1	203.7	155.3	106.0	76.1	60.8	57.4	59.2	65.1	69.7	69.9
27.5°	257.6	232.1	169.5	110.5	75.3	59.2	57.9	62.0	69.2	73.4	74.0
30°	303.4	271.7	185.2	112.3	72.5	57.7	57.9	63.0	69.2	73.4	73.6
32.5°	349.1	305.8	198.0	113.7	69.7	56.3	57.2	61.6	67.5	72.3	72.5
35°	387.8	333.0	203.7	111.0	66.9	55.5	55.8	60.3	66.9	72.8	73.1
37.5°	416.4	350.7	203.1	104.7	63.8	54.7	54.9	60.1	67.5	74.0	74.8
40°	426.0	351.7	193.0	95.3	61.6	54.4	55.2	60.1	66.9	72.3	73.1
42.5°	448.4	361.1	186.1	87.0	60.1	54.9	56.0	59.2	64.4	69.4	70.5
45°	488.4	386.4	187.9	83.0	59.8	56.3	56.6	58.5	62.0	66.7	68.1
47.5°	531.6	412.4	188.7	80.9	61.0	57.7	57.4	57.7	59.5	63.5	64.9
50°	591.4	451.4	193.0	80.7	63.3	59.2	58.2	57.2	58.5	63.3	64.6
52.5°	653.1	492.6	200.0	82.2	66.4	61.4	59.2	57.4	58.5	62.8	64.6
55°	721.8	544.2	210.0	85.4	69.7	63.8	60.5	58.2	58.2	62.0	63.5
57.5°	798.0	597.3	223.4	89.7	73.1	66.4	61.6	58.5	57.9	60.3	61.6
60°	916.2	686.4	246.8	95.8	76.6	68.7	62.5	58.7	58.2	60.1	60.8
62.5°	994.7	748.3	267.1	101.9	79.8	70.5	62.8	58.7	58.7	59.8	60.3
65°	1069.1	802.5	280.8	107.5	82.7	71.6	62.8	58.5	58.7	59.5	59.5
67.5°	1094.2	816.1	281.6	111.6	84.5	71.6	62.2	58.2	59.0	59.8	59.5
69°	1064.0	787.9	269.6	111.8	84.5	70.7	61.6	57.7	59.0	59.8	59.5
70°	1035.6	763.6	259.4	110.8	83.8	69.9	60.8	57.4	58.7	59.5	59.2
72.5°	874.6	631.2	219.6	105.4	80.9	67.3	58.5	55.5	57.4	58.5	57.9
75°	696.8	497.4	179.0	96.0	75.8	63.0	55.2	52.6	54.7	55.8	54.9
77.5°	519.3	368.3	143.3	86.8	70.2	59.2	51.8	48.8	50.5	51.1	50.1
80°	376.8	267.4	115.0	78.2	65.1	55.5	48.3	45.2	46.4	46.4	45.4
82.5°	266.4	190.0	92.9	69.7	59.8	52.3	45.4	41.9	43.8	43.4	42.4
85°	178.5	131.8	76.1	60.3	53.6	48.1	42.2	39.6	41.6	41.4	40.3
87.5°	118.2	94.2	63.8	52.3	47.0	42.7	38.5	36.6	38.7	38.1	36.8
90°	83.8	71.2	53.9	45.2	40.3	37.1	34.2	32.8	34.2	33.1	31.8
92.5°	60.3	53.4	44.2	37.9	33.7	31.4	29.6	28.5	29.4	27.8	26.7
95°	42.7	39.3	35.5	31.2	28.0	26.1	25.1	24.6	25.1	22.7	21.9
97.5°	31.2	29.6	28.0	25.9	23.3	22.2	21.3	20.9	20.9	18.5	17.9
100°	24.2	23.5	23.0	21.7	19.4	18.7	18.1	17.9	17.4	15.2	14.6
102.5°	19.4	19.2	19.2	17.9	16.3	15.8	15.2	15.0	14.4	12.6	12.0
105°	15.6	15.6	15.8	14.6	13.6	13.1	12.8	12.2	11.7	10.4	10.4
107.5°	12.2	12.2	12.8	12.0	11.5	10.9	10.7	10.2	9.7	8.8	8.8



REPORT NUMBER: P254409

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.7	9.9	10.7	10.2	9.7	9.3	9.1	8.3	7.7	7.4	7.4
112.5°	7.7	8.3	8.8	8.5	7.9	7.9	7.4	7.0	6.4	6.4	6.4
115°	6.7	7.0	7.4	7.2	7.0	6.7	6.4	5.6	5.4	5.4	5.6
117.5°	5.6	5.9	6.4	6.1	5.9	5.9	5.4	4.8	4.3	4.8	4.8
120°	4.8	5.0	5.4	5.4	5.0	5.0	4.6	4.1	3.5	4.1	4.1
122.5°	4.6	4.6	4.8	4.6	4.6	4.3	3.8	3.2	2.9	3.5	3.5
125°	4.3	4.3	4.3	4.1	4.1	3.8	3.2	2.6	2.4	2.9	2.9
127.5°	4.1	4.1	4.1	3.8	3.2	2.9	2.6	2.1	1.8	2.4	2.4
130°	4.1	4.1	3.5	3.2	2.9	2.4	2.1	1.6	1.6	2.1	2.1
132.5°	3.8	3.5	3.2	2.6	2.4	1.8	1.6	1.3	1.3	1.6	1.8
135°	3.2	3.2	2.6	2.1	1.8	1.3	1.3	0.8	1.1	1.3	1.3
137.5°	2.6	2.6	2.4	1.8	1.3	1.1	0.8	0.5	0.8	1.1	1.1
140°	2.4	2.1	1.8	1.6	1.1	0.5	0.5	0.2	0.5	0.5	0.8
142.5°	2.1	2.1	1.8	1.3	0.8	0.5	0.0	0.2	0.2	0.2	0.5
145°	1.8	1.8	1.6	1.1	0.8	0.2	0.0	0.2	0.2	0.2	0.0
147.5°	1.6	1.6	1.3	1.1	0.5	0.0	0.0	0.0	0.2	0.0	0.0
150°	1.3	1.3	1.1	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.2	0.2	0.2	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)