

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: P266042

Luminaire Tested: **LXF.LXT-AF24-30-D-U-T3-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-30-D-U-T3-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2795.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

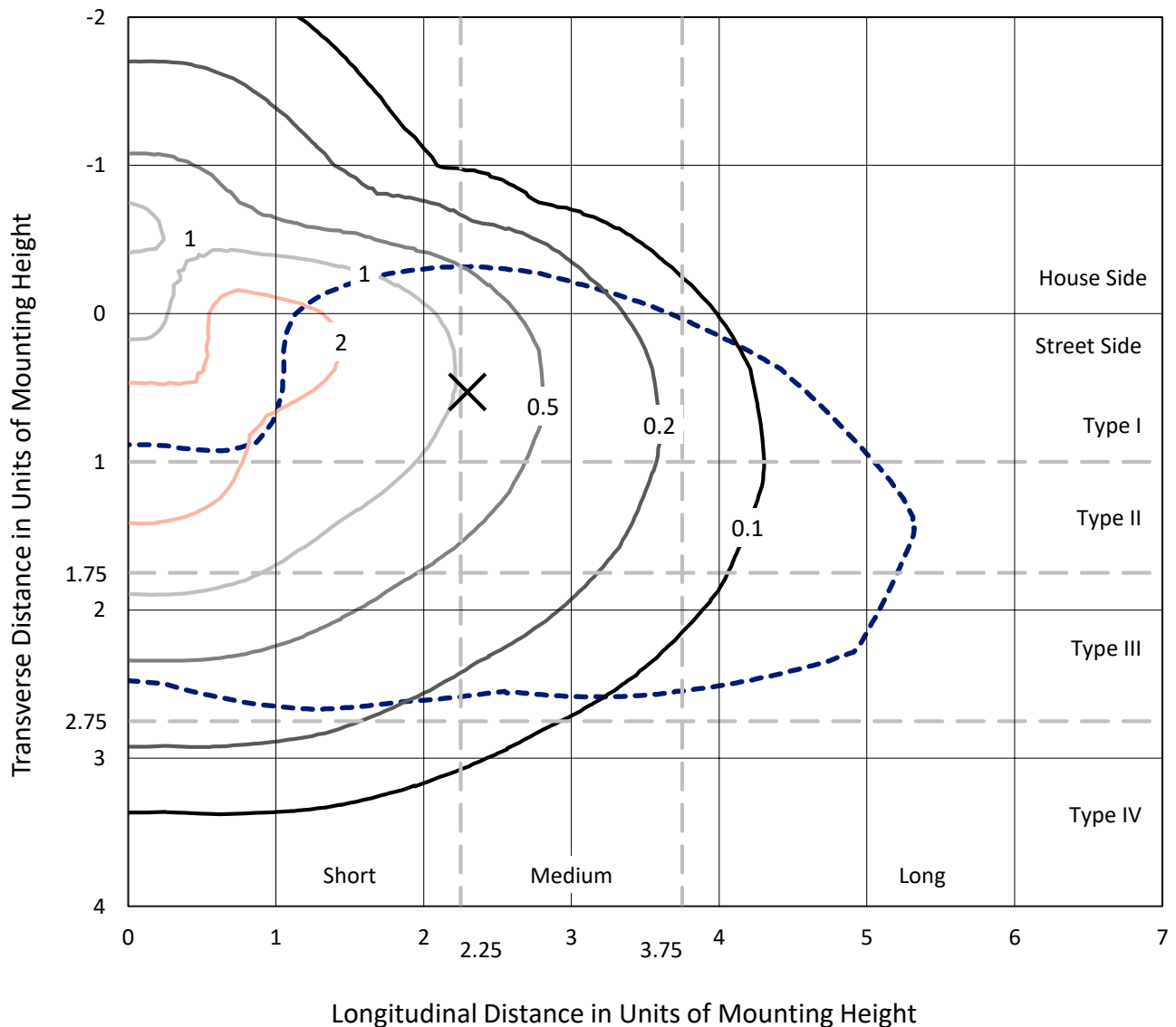
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

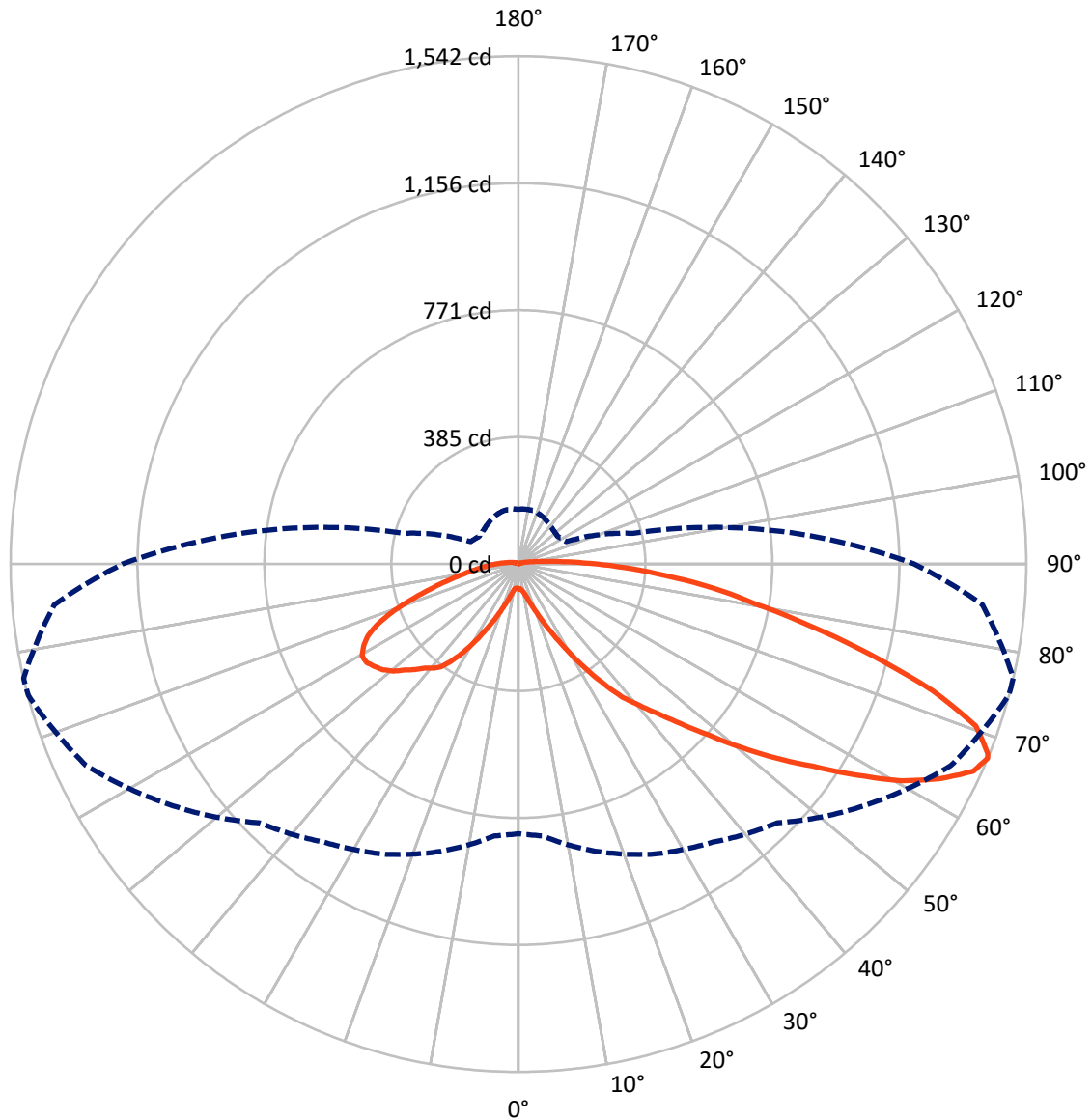
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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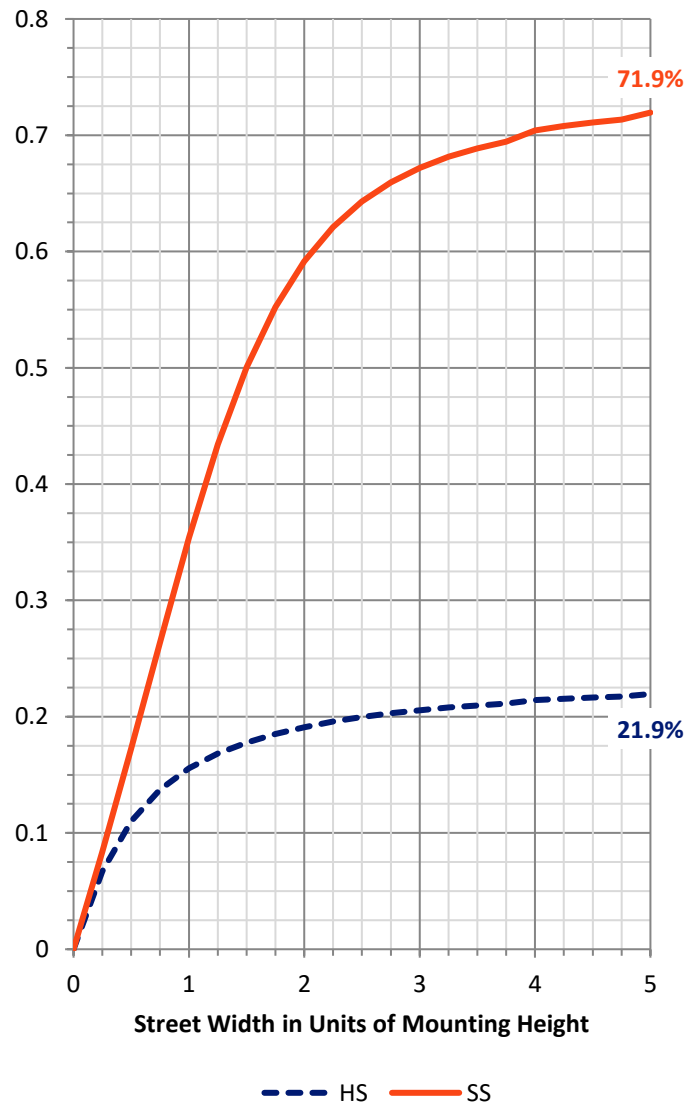
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.9	40.8	681.7
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	2060.5	53.0	2113.6
	% Fixture	73.7	1.9	75.6
Total	Lumens	2701.4	93.8	2795.3
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.3
10°-20°	31.4	1.1
20°-30°	91.8	3.3
30°-40°	213.3	7.6
40°-50°	374.2	13.4
50°-60°	575.0	20.6
60°-70°	711.1	25.4
70°-80°	496.4	17.8
80°-90°	200.9	7.2
90°-100°	59.4	2.1
100°-110°	19.2	0.7
110°-120°	8.1	0.3
120°-130°	4.2	0.2
130°-140°	2.2	0.1
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2701.4	96.6
0°-180°	2795.3	100.0



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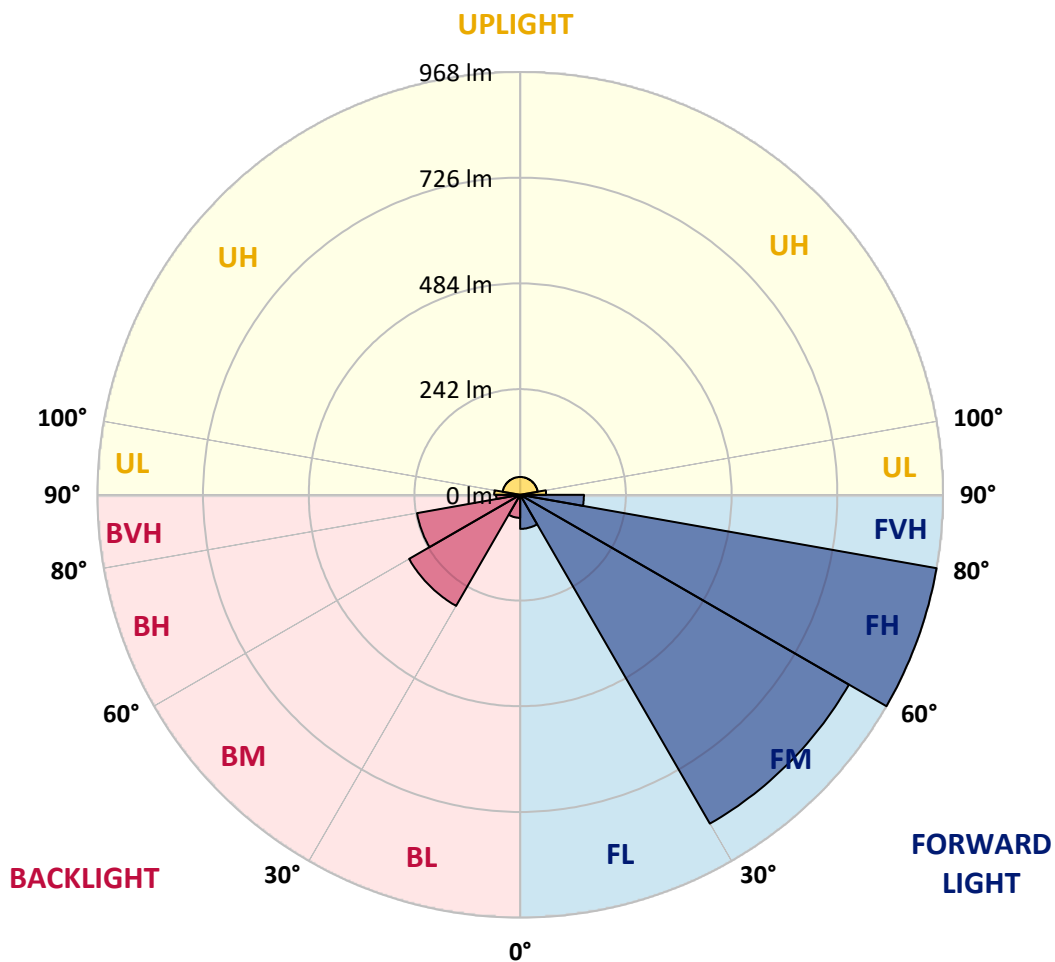
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	77.9	2.8			
FM (30°-60°)	868.9	31.1			
FH (60°-80°)	967.7	34.6			G1/1800
FVH (80°-90°)	146.0	5.2			G2/225
BL (0°-30°)	52.7	1.9	B0/110		
BM (30°-60°)	293.5	10.5	B1/1000		
BH (60°-80°)	239.7	8.6	B1/500		G1/500
BVH (80°-90°)	54.9	2.0			G1/100
UL (90°-100°)	59.4	2.1		U3/500	
UH (100°-180°)	40.8	1.5		U2/50	

BUG Rating: B1-U3-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
2.5°	79.1	79.4	79.4	79.4	79.1	78.4	77.3	76.7	75.6	75.4	74.6
5°	85.1	85.1	85.1	84.8	84.1	82.7	81.4	79.7	77.8	77.3	76.0
7.5°	91.8	92.2	91.8	91.2	89.6	88.2	86.1	83.8	81.4	80.8	79.1
10°	101.6	101.6	100.9	99.6	97.2	94.5	92.2	89.6	87.1	86.4	84.4
12.5°	116.4	116.4	115.1	111.4	107.6	103.9	101.2	99.3	97.9	96.8	95.6
15°	135.3	135.6	133.6	127.9	123.2	117.4	115.1	114.8	114.4	113.4	112.1
17.5°	158.1	158.1	154.8	147.1	140.9	135.6	133.3	133.3	133.3	133.3	132.6
20°	185.4	185.7	181.4	170.3	163.9	157.5	155.0	155.4	156.8	157.2	157.2
22.5°	220.4	221.7	215.1	199.9	192.1	182.7	181.0	182.7	186.4	187.3	189.2
25°	268.1	266.2	257.5	237.5	226.2	214.7	212.0	216.8	223.8	225.7	229.4
27.5°	318.3	318.5	306.2	282.0	262.8	249.0	247.7	257.1	267.2	269.9	275.9
30°	382.1	382.9	364.1	334.1	305.6	288.0	288.0	303.4	319.0	323.3	333.1
32.5°	458.9	458.2	430.4	394.4	354.7	333.1	333.8	356.3	378.5	383.5	392.6
35°	548.1	547.1	510.1	462.6	409.8	381.9	385.0	413.5	442.1	446.8	461.3
37.5°	639.4	640.3	599.3	539.1	470.7	434.1	439.8	473.8	508.7	512.2	523.5
40°	721.7	726.8	685.3	618.2	536.6	488.9	495.7	528.3	562.6	564.0	568.3
42.5°	800.7	801.5	766.9	695.2	605.0	549.5	550.1	581.5	614.0	619.8	621.7
45°	851.2	858.3	830.5	765.9	674.0	611.3	605.6	637.0	685.0	691.8	691.8
47.5°	908.8	916.2	884.2	829.3	740.6	673.5	668.9	708.9	766.4	773.5	770.8
50°	973.5	982.4	959.3	899.7	806.9	739.9	748.0	794.7	864.3	874.5	871.4
52.5°	1022.5	1032.3	1018.1	976.1	881.1	817.3	826.0	891.3	968.4	978.4	967.0
55°	1040.6	1054.2	1058.6	1037.1	958.0	899.5	926.3	996.9	1072.7	1083.4	1071.3
57.5°	1040.1	1053.8	1070.6	1067.6	1022.2	983.9	1023.2	1105.6	1197.1	1208.0	1195.5
60°	1032.6	1048.9	1079.8	1083.7	1058.3	1058.3	1121.9	1235.2	1326.6	1336.5	1300.7
62.5°	968.4	988.6	1045.1	1085.8	1078.1	1106.0	1212.0	1342.4	1431.0	1435.8	1368.7
65°	888.0	906.7	969.0	1034.9	1071.7	1122.8	1270.8	1419.0	1511.4	1516.8	1420.6
67°	818.3	828.3	902.7	971.7	1030.3	1111.4	1279.9	1448.2	1540.8	1541.8	1414.2
67.5°	793.5	803.9	879.5	953.2	1015.9	1103.3	1275.2	1450.9	1538.9	1537.0	1402.1
70°	662.9	668.9	748.0	842.9	913.1	1016.2	1216.7	1398.8	1479.8	1473.7	1319.3
72.5°	489.8	495.0	577.0	692.5	775.5	889.0	1089.9	1287.7	1332.7	1316.2	1135.9
75°	339.5	343.5	407.6	506.0	615.1	734.9	931.7	1095.9	1129.2	1108.7	941.5
77.5°	224.4	227.5	277.2	355.0	455.3	587.5	758.1	905.4	932.4	908.5	756.1
80°	142.3	144.6	181.6	242.9	333.8	461.0	608.7	736.5	748.0	725.4	590.8
82.5°	90.2	92.5	117.4	164.5	239.6	351.0	478.7	593.5	609.1	595.5	462.0
85°	57.9	61.3	79.1	112.6	169.9	257.5	373.2	472.1	470.4	448.2	339.2
87.5°	41.1	43.7	57.2	80.4	119.7	182.4	272.8	342.6	338.5	323.7	235.9
90°	30.6	32.7	42.4	58.6	86.1	127.9	189.2	237.2	225.5	216.3	155.8
92.5°	22.5	24.3	31.6	42.7	61.5	89.6	124.9	153.4	141.4	134.9	98.5
95°	16.4	17.4	23.3	31.4	44.7	62.3	81.7	96.6	86.7	82.5	62.3
97.5°	12.8	13.5	17.8	24.3	33.2	44.7	55.2	60.5	55.2	52.6	43.1
100°	10.8	11.0	14.8	19.1	26.2	34.0	39.3	41.4	38.0	36.3	31.4
102.5°	9.2	9.4	12.0	15.8	21.2	26.9	29.6	30.4	27.3	26.2	23.5
105°	7.7	8.1	10.4	13.5	17.8	21.9	23.3	22.5	19.9	19.1	17.8
107.5°	6.7	7.0	8.8	11.5	14.8	18.1	18.5	17.2	14.8	14.2	13.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	6.1	6.1	7.7	9.7	12.8	15.1	15.1	13.1	11.0	10.8	10.8
112.5°	5.4	5.4	6.7	8.4	11.0	12.8	12.4	10.4	8.4	8.1	8.4
115°	4.8	4.8	5.7	7.7	9.7	11.0	10.4	8.4	6.4	6.4	7.0
117.5°	4.4	4.4	5.4	7.0	8.8	9.7	8.8	6.7	5.4	5.4	5.7
120°	4.0	4.0	5.0	6.4	8.1	8.8	7.7	5.7	4.4	4.4	5.0
122.5°	4.0	4.0	4.8	6.1	7.4	7.7	6.7	5.0	3.8	4.0	4.4
125°	4.0	4.4	4.8	5.7	6.7	6.7	5.7	4.4	3.4	3.4	4.0
127.5°	4.4	4.4	4.8	5.4	6.1	6.1	5.0	3.8	3.4	3.4	3.8
130°	4.8	4.8	4.8	5.0	5.4	5.0	4.4	3.4	3.1	3.1	3.4
132.5°	4.8	4.8	4.8	4.8	4.8	4.4	3.8	3.1	2.6	3.1	3.4
135°	4.4	4.4	4.4	4.4	4.0	3.8	3.1	2.3	2.3	2.3	2.6
137.5°	4.0	3.8	3.8	3.8	3.4	3.1	2.3	1.6	2.1	2.1	2.3
140°	3.4	3.4	3.4	3.1	2.6	2.3	1.6	1.3	1.6	1.6	2.1
142.5°	2.6	2.6	2.6	2.3	2.1	1.6	1.0	1.0	1.3	1.6	1.6
145°	2.1	2.1	2.1	1.6	1.3	1.0	0.7	1.0	1.3	1.3	1.3
147.5°	1.3	1.3	1.3	1.3	0.7	0.3	0.7	0.7	1.0	1.0	1.3
150°	0.7	0.7	1.0	0.7	0.3	0.3	0.3	0.7	0.7	1.0	1.0
152.5°	0.3	0.3	0.7	0.3	0.0	0.0	0.0	0.3	0.7	0.7	0.7
155°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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°	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
2.5°	74.4	74.0	73.3	72.4	71.7	71.3	71.3	70.6	70.6	70.6	70.2
5°	75.6	74.6	73.3	72.0	70.6	69.7	69.3	68.6	67.9	67.9	67.6
7.5°	77.8	76.7	74.4	72.4	70.2	69.0	68.4	67.6	67.0	66.7	66.3
10°	83.2	81.7	78.1	74.6	72.0	70.0	69.0	68.4	67.6	67.6	67.4
12.5°	94.2	91.8	87.1	81.4	75.6	72.7	71.7	74.0	75.0	76.0	76.0
15°	110.8	108.3	101.2	92.9	84.4	78.7	80.4	83.8	86.4	88.2	88.2
17.5°	131.0	127.2	118.4	106.3	95.2	91.2	90.5	94.2	98.3	100.6	100.6
20°	154.8	150.3	138.2	121.8	109.4	103.2	102.0	105.3	110.0	113.7	113.7
22.5°	185.7	180.6	162.9	139.6	123.4	115.1	113.4	116.8	123.4	128.5	128.2
25°	226.2	218.0	193.4	161.2	137.6	125.9	124.4	129.8	139.0	146.1	147.1
27.5°	272.8	261.4	224.8	184.4	151.5	135.3	135.6	143.0	154.1	161.9	161.9
30°	325.6	313.6	262.5	207.2	163.2	143.3	144.6	154.5	165.6	173.4	173.4
32.5°	386.9	369.2	302.2	229.7	173.6	149.4	150.7	162.6	173.6	182.0	182.4
35°	448.9	424.5	338.1	248.3	182.4	154.5	155.0	168.9	181.0	190.4	191.5
37.5°	505.3	474.0	370.1	261.0	186.4	156.8	157.8	173.6	187.7	196.5	196.5
40°	545.8	506.4	385.6	264.1	187.3	157.5	160.4	176.6	187.3	191.5	189.7
42.5°	591.5	543.0	395.3	259.2	183.8	157.2	161.9	174.6	180.4	180.6	179.0
45°	655.5	592.5	413.2	254.7	177.0	156.5	160.2	169.6	171.2	168.3	166.2
47.5°	729.5	646.4	428.0	249.3	172.7	154.8	157.8	163.5	162.1	156.8	155.0
50°	812.8	714.6	446.5	242.6	169.2	152.7	155.4	159.2	157.5	151.8	150.3
52.5°	894.7	774.6	458.2	235.5	166.2	151.8	153.8	158.1	156.1	149.4	147.4
55°	980.5	835.5	461.0	223.4	163.9	151.8	154.1	158.8	156.5	149.4	147.4
57.5°	1081.4	901.1	461.0	209.2	160.2	152.4	155.0	159.8	157.8	150.7	149.1
60°	1163.6	947.8	451.2	196.8	155.8	152.4	155.4	160.4	160.2	155.0	154.1
62.5°	1208.8	965.0	424.5	183.1	152.2	151.5	155.8	162.1	164.5	160.8	159.8
65°	1233.2	959.3	393.6	169.2	148.7	149.4	155.8	163.2	166.8	164.8	163.5
67°	1201.6	918.8	359.7	159.8	145.3	147.7	155.0	163.2	168.3	167.5	166.2
67.5°	1185.8	902.7	349.9	158.1	144.4	147.4	154.8	163.2	168.3	168.3	166.8
70°	1087.0	811.9	299.1	145.6	138.0	142.3	151.1	161.5	167.3	167.5	166.8
72.5°	918.8	667.6	246.9	133.8	129.8	134.9	145.6	156.5	161.9	161.2	160.4
75°	748.6	538.4	201.2	122.4	120.5	126.2	136.0	146.1	149.7	148.0	147.4
77.5°	592.8	419.9	164.8	111.4	111.0	116.2	123.8	131.2	133.3	130.3	129.8
80°	455.6	321.0	134.9	102.2	101.2	105.0	110.3	115.4	116.8	113.7	113.0
82.5°	348.9	243.4	112.1	92.2	91.8	93.9	97.6	100.9	103.2	100.3	99.3
85°	252.3	178.0	94.2	81.4	81.7	82.7	85.1	87.5	90.9	89.8	88.6
87.5°	176.0	129.1	80.0	71.3	71.3	72.0	73.3	75.6	80.0	79.7	78.4
90°	119.7	93.2	67.4	62.3	61.3	61.5	62.6	63.9	67.9	67.6	66.7
92.5°	80.0	66.3	54.4	51.6	51.2	51.6	51.6	52.6	54.4	53.4	52.6
95°	53.4	47.8	43.4	41.7	41.1	41.4	41.4	40.8	42.1	40.3	39.3
97.5°	38.4	36.0	35.0	33.6	32.7	33.0	33.0	32.2	32.7	30.4	29.6
100°	29.3	28.6	28.6	27.3	26.2	26.6	26.6	26.2	26.0	23.3	22.8
102.5°	23.3	22.8	23.3	22.2	21.2	21.9	21.5	21.2	20.5	18.1	17.8
105°	18.1	18.1	19.1	18.1	17.4	17.8	17.8	17.2	16.4	14.5	14.5
107.5°	14.2	14.5	15.5	14.8	14.5	14.8	14.5	13.8	12.8	11.5	11.5



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CATALOG NUMBER: LXF.LXT-AF24-30-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	11.0	11.8	12.8	12.4	12.0	12.4	11.8	11.0	10.2	9.4	9.4
112.5°	9.2	9.4	10.4	10.4	10.2	10.4	9.7	8.8	8.1	7.7	7.7
115°	7.4	8.1	8.8	8.8	8.8	8.8	8.1	7.0	6.4	6.4	6.4
117.5°	6.4	6.7	7.4	7.4	7.4	7.4	6.7	5.7	5.0	5.4	5.4
120°	5.4	5.7	6.4	6.4	6.4	6.4	5.7	4.8	4.0	4.4	4.4
122.5°	4.8	5.0	5.4	5.7	5.7	5.4	4.8	4.0	3.4	3.8	3.8
125°	4.4	4.8	4.8	5.0	4.8	4.8	4.0	3.4	3.1	3.4	3.4
127.5°	4.0	4.4	4.4	4.4	4.4	3.8	3.4	2.6	2.3	2.6	3.1
130°	3.8	4.0	4.0	3.8	3.4	3.1	2.6	2.3	2.1	2.3	2.6
132.5°	3.8	3.8	3.8	3.4	3.1	2.3	2.1	1.6	1.6	2.1	2.3
135°	3.1	3.1	3.1	2.6	2.1	1.6	1.3	1.3	1.3	1.6	1.6
137.5°	2.3	2.6	2.3	2.1	1.6	1.3	1.0	1.0	1.0	1.3	1.3
140°	2.1	2.1	2.1	1.6	1.3	0.7	0.3	0.3	0.7	0.7	1.0
142.5°	1.6	2.1	1.6	1.3	1.0	0.3	0.0	0.3	0.3	0.3	0.3
145°	1.6	1.6	1.3	1.0	0.7	0.3	0.0	0.0	0.3	0.0	0.0
147.5°	1.3	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.0	1.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	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)