

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: P266048

Luminaire Tested: **LXF.LXT-AF24-30-D-U-T4W-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)
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-T4W-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2783.5 lumens
Efficiency: N/A
Efficacy: 89.8 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): 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

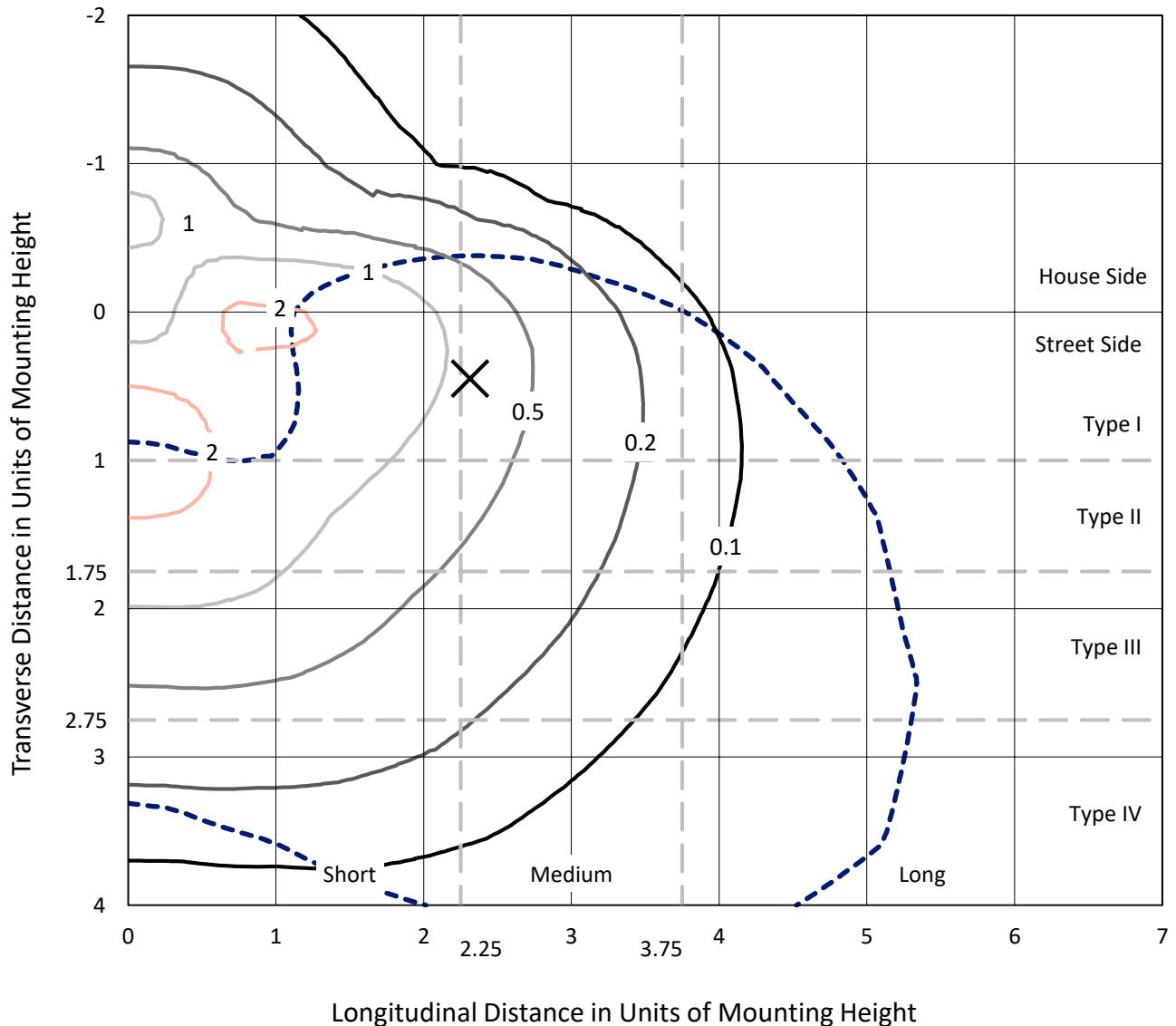


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

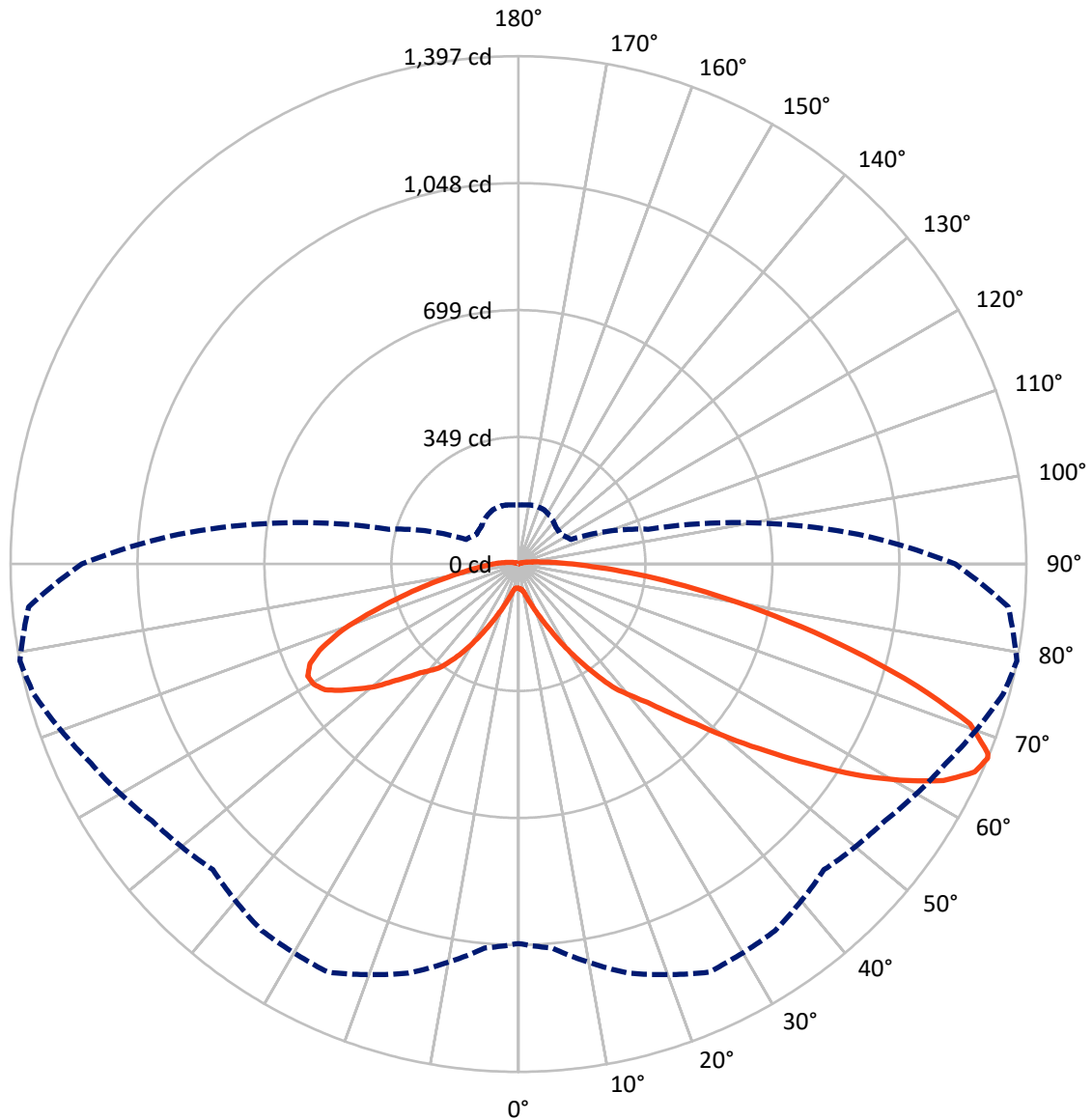


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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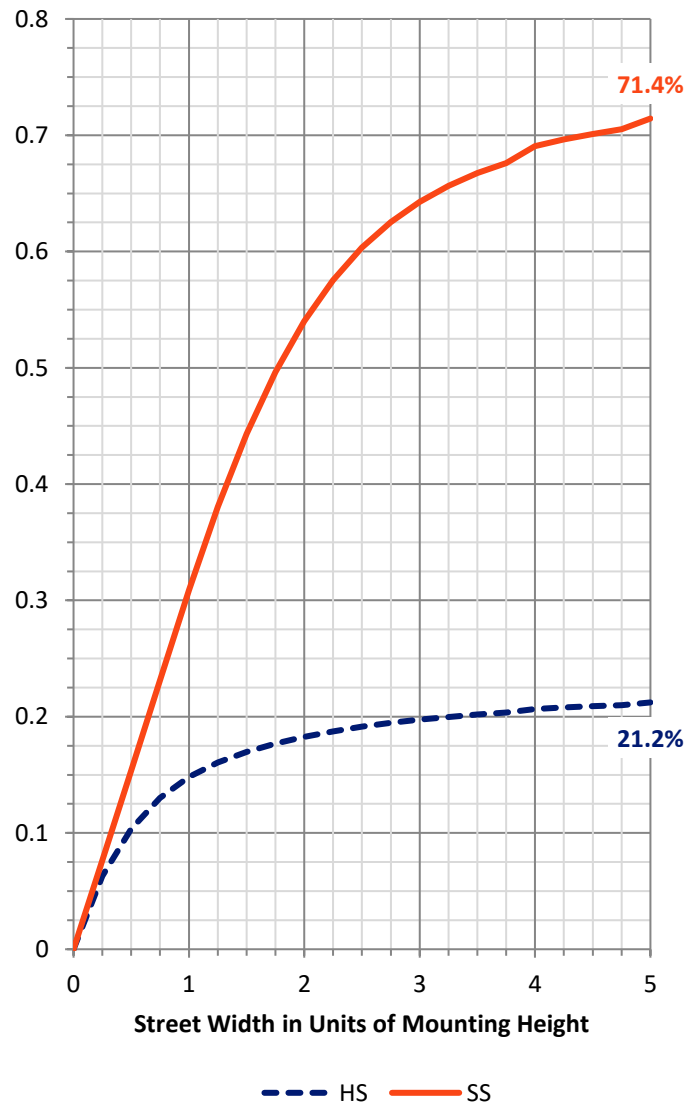
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.7	41.9	662.6
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	2062.8	58.1	2120.8
	% Fixture	74.1	2.1	76.2
Total	Lumens	2683.5	99.9	2783.5
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.2
10°-20°	28.6	1.0
20°-30°	82.5	3.0
30°-40°	187.1	6.7
40°-50°	325.1	11.7
50°-60°	520.9	18.7
60°-70°	725.8	26.1
70°-80°	573.3	20.6
80°-90°	233.5	8.4
90°-100°	66.6	2.4
100°-110°	19.8	0.7
110°-120°	7.7	0.3
120°-130°	3.7	0.1
130°-140°	1.7	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2683.5	96.4
0°-180°	2783.5	100.0



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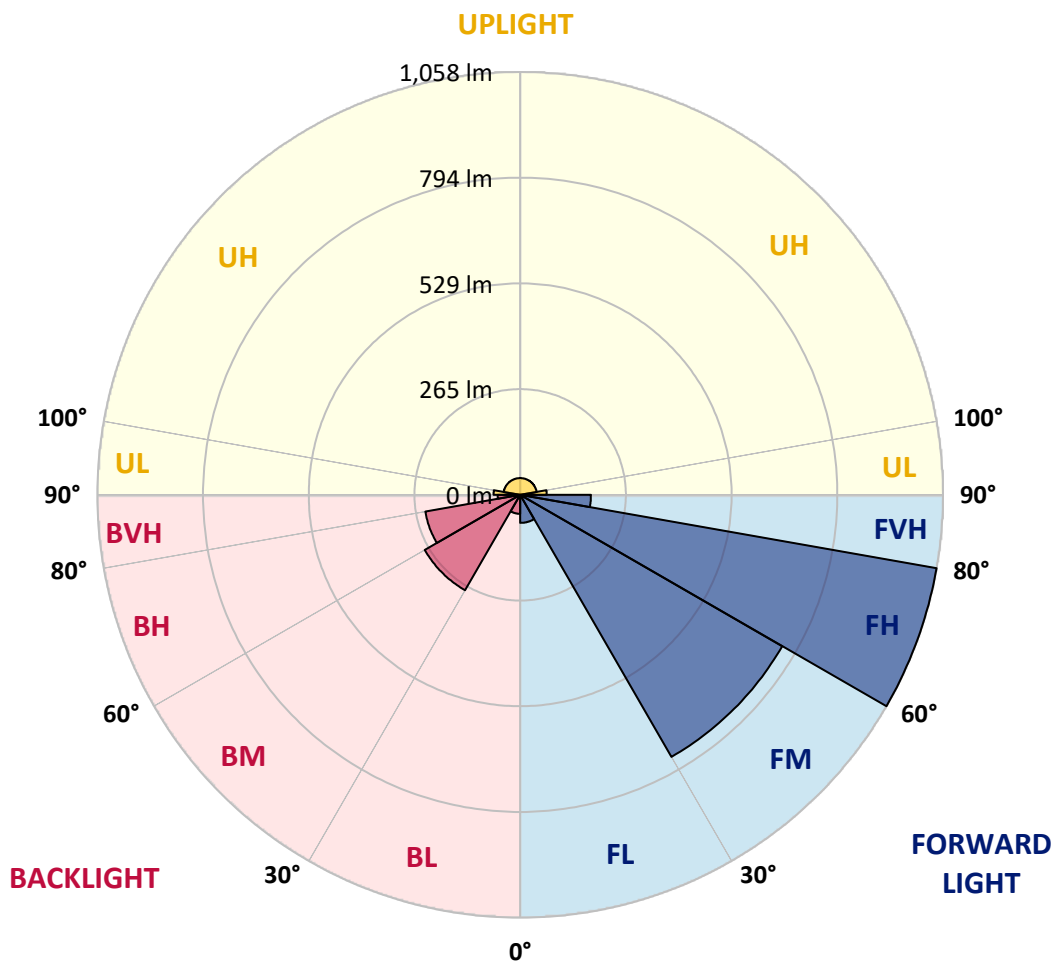
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	70.3	2.5			
FM (30°-60°)	757.3	27.2			
FH (60°-80°)	1058.1	38.0			G1/1800
FVH (80°-90°)	177.1	6.4			G2/225
BL (0°-30°)	47.6	1.7	B0/110		
BM (30°-60°)	275.8	9.9	B1/1000		
BH (60°-80°)	241.0	8.7	B1/500		G1/500
BVH (80°-90°)	56.4	2.0			G1/100
UL (90°-100°)	66.6	2.4		U3/500	
UH (100°-180°)	41.9	1.5		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
2.5°	71.3	71.3	71.7	71.7	71.7	71.0	70.0	69.0	68.4	67.9	67.4
5°	76.7	76.4	76.7	76.4	76.4	75.0	73.3	71.7	70.2	69.7	68.6
7.5°	84.4	84.4	84.1	83.5	82.7	80.4	77.8	75.6	73.8	72.4	71.3
10°	94.2	94.5	93.9	92.2	90.5	87.5	84.4	81.7	78.7	77.1	75.6
12.5°	109.4	109.4	107.9	104.4	100.3	96.6	93.2	90.5	89.1	87.5	86.1
15°	128.2	127.9	125.9	120.2	114.8	108.3	106.0	104.4	103.2	102.0	100.3
17.5°	150.3	150.0	146.3	138.6	130.3	125.6	121.8	120.2	120.8	119.5	118.0
20°	177.0	176.2	170.6	159.8	151.5	144.9	140.9	139.2	141.4	140.2	139.2
22.5°	210.9	209.2	201.2	185.7	176.0	165.6	161.9	161.2	165.8	165.8	165.8
25°	251.3	249.6	237.5	219.7	202.6	189.7	186.0	189.7	197.4	198.5	200.5
27.5°	298.1	296.1	281.3	256.3	233.5	216.3	213.3	220.8	232.8	237.5	239.6
30°	353.3	352.0	330.8	299.1	266.7	245.2	242.0	255.4	274.3	281.6	286.6
32.5°	418.5	416.9	386.2	348.9	303.8	276.9	274.3	294.7	323.0	330.0	340.2
35°	499.3	497.7	457.2	405.0	345.2	310.5	310.5	337.1	371.8	381.5	393.9
37.5°	580.3	580.0	539.3	469.8	390.9	347.6	348.3	378.8	420.5	435.7	447.1
40°	659.4	660.2	613.7	534.0	442.1	388.2	388.0	418.9	462.3	475.5	486.5
42.5°	731.5	731.1	687.4	602.3	495.2	432.4	426.2	456.6	502.6	520.5	535.3
45°	781.5	785.3	751.6	663.8	548.8	478.1	465.6	499.3	558.1	582.7	602.7
47.5°	843.9	844.1	813.2	721.7	603.7	525.6	514.1	556.5	631.1	656.8	677.6
50°	912.5	915.8	891.3	794.5	665.6	579.0	574.6	628.2	716.9	753.0	778.9
52.5°	971.0	975.0	959.8	877.5	740.3	647.7	647.7	715.6	810.9	853.8	879.1
55°	1014.0	1020.8	1024.4	957.2	824.6	728.0	735.5	811.9	917.4	969.0	999.6
57.5°	1048.4	1057.8	1075.4	1028.2	907.7	824.6	835.5	917.2	1045.6	1093.9	1126.1
60°	1099.2	1109.9	1141.6	1104.2	1003.2	928.6	943.1	1032.2	1163.5	1206.9	1231.4
62.5°	1104.2	1117.4	1181.4	1186.8	1092.8	1030.3	1062.2	1149.7	1274.9	1312.6	1318.0
65°	1081.0	1098.2	1183.0	1232.0	1188.0	1125.4	1170.5	1250.9	1354.6	1379.4	1365.7
67°	1044.0	1060.4	1164.8	1238.9	1231.0	1189.0	1231.0	1297.4	1380.4	1397.0	1352.6
67.5°	1028.2	1044.0	1154.7	1237.4	1236.4	1200.1	1240.9	1307.5	1381.9	1392.9	1342.7
70°	927.0	948.8	1067.2	1194.4	1234.1	1210.2	1257.9	1304.1	1322.2	1318.3	1246.2
72.5°	748.9	769.5	898.7	1076.7	1167.4	1155.4	1197.8	1206.2	1174.3	1146.6	1048.4
75°	549.5	558.6	677.6	869.1	1018.0	1032.0	1063.9	1045.0	986.5	949.8	849.8
77.5°	381.5	390.7	482.1	658.1	821.0	872.4	904.1	876.4	814.9	758.7	649.7
80°	252.7	257.4	329.0	479.4	643.9	715.6	742.9	714.6	636.5	581.5	478.1
82.5°	154.1	163.2	215.1	336.1	497.9	586.1	605.9	573.3	488.9	431.6	344.5
85°	92.5	97.2	137.6	227.1	366.4	465.1	483.8	441.4	356.0	304.4	230.9
87.5°	57.2	59.2	86.4	147.1	257.1	347.3	367.3	317.3	240.2	202.8	154.4
90°	37.0	38.6	56.9	96.8	169.9	247.4	256.3	216.0	159.8	135.3	104.7
92.5°	25.0	26.2	38.6	64.3	111.7	162.1	168.9	142.7	105.6	90.2	71.3
95°	17.4	18.5	27.3	43.7	72.7	99.9	107.0	92.5	69.0	59.6	49.0
97.5°	13.5	14.2	20.5	31.6	49.0	64.6	67.4	60.2	46.7	41.1	35.7
100°	10.8	11.5	16.2	23.9	35.4	44.0	45.8	41.4	33.0	29.6	26.2
102.5°	9.4	9.4	13.1	18.9	26.6	32.7	33.0	29.6	24.3	21.9	20.2
105°	8.1	8.1	10.8	15.1	21.2	25.2	25.2	21.9	17.8	16.2	15.5
107.5°	6.7	7.0	9.2	12.0	16.8	20.2	19.6	16.2	12.8	11.8	11.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	5.7	6.1	7.7	10.2	13.8	16.4	15.5	12.4	9.4	8.8	8.8
112.5°	5.0	5.4	6.4	8.8	11.8	13.8	12.4	9.4	7.0	6.7	7.0
115°	4.8	4.8	5.7	7.7	10.2	11.5	10.4	7.7	5.7	5.4	5.7
117.5°	4.0	4.4	5.0	6.7	9.2	9.7	8.8	6.1	4.4	4.4	5.0
120°	4.0	4.0	4.8	6.1	8.1	8.8	7.4	5.0	3.8	3.8	4.4
122.5°	3.8	3.8	4.4	5.7	7.0	7.7	6.4	4.4	3.4	3.4	3.8
125°	3.8	3.8	4.4	5.4	6.4	6.4	5.4	3.8	3.1	3.1	3.4
127.5°	4.0	4.0	4.4	5.0	5.7	5.7	4.8	3.4	2.6	2.6	3.1
130°	4.0	4.0	4.0	4.8	5.0	4.8	4.0	3.1	2.6	2.6	3.1
132.5°	4.0	4.0	4.0	4.0	4.4	4.0	3.4	2.3	2.3	2.3	2.6
135°	3.8	3.8	3.4	3.8	3.8	3.1	2.3	1.6	2.1	2.1	2.3
137.5°	3.1	3.1	3.1	3.1	2.6	2.3	1.6	1.3	1.6	2.1	2.1
140°	2.6	2.6	2.3	2.3	2.1	1.6	1.0	1.3	1.6	1.6	1.6
142.5°	2.1	2.1	2.1	1.6	1.3	1.0	0.7	1.0	1.3	1.3	1.6
145°	1.3	1.3	1.3	1.0	0.7	0.3	0.7	0.7	1.0	1.3	1.3
147.5°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.7	1.0	1.0	1.0
150°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.7	1.0	1.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.7	0.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
2.5°	67.0	66.7	65.5	64.9	64.3	63.9	63.6	63.6	63.2	62.9	62.9
5°	67.9	67.4	65.5	64.3	63.2	62.6	62.0	61.5	60.8	60.5	60.5
7.5°	70.0	69.0	67.0	64.6	62.9	62.0	61.3	60.5	59.8	59.8	59.8
10°	74.0	72.7	69.7	66.7	63.9	62.6	62.0	61.3	61.3	60.8	60.8
12.5°	84.1	82.0	77.1	71.7	67.0	64.9	64.3	65.9	67.9	68.4	69.3
15°	97.9	95.8	89.6	81.7	74.0	69.7	72.0	75.0	78.4	81.0	81.0
17.5°	115.1	112.6	103.9	93.2	83.8	81.0	81.7	86.1	90.9	93.2	93.6
20°	136.3	132.9	120.8	106.0	95.6	91.4	92.5	96.8	103.7	107.0	107.6
22.5°	162.9	157.8	141.7	120.8	107.9	102.6	103.7	109.1	118.0	122.8	124.4
25°	196.5	190.1	165.6	138.6	120.5	112.4	115.4	123.8	135.3	142.3	142.0
27.5°	235.1	225.0	194.5	157.2	132.9	121.8	126.5	138.2	152.1	160.2	161.2
30°	281.6	268.6	226.2	176.6	143.6	130.3	136.3	151.1	166.5	177.3	178.4
32.5°	333.1	317.6	258.4	196.2	152.4	136.6	143.3	161.9	179.8	192.4	192.7
35°	385.9	366.1	289.1	213.0	159.8	141.7	148.7	169.9	190.8	205.6	206.6
37.5°	436.3	413.2	317.3	224.0	164.5	144.4	151.8	176.6	200.2	216.0	217.0
40°	474.5	445.7	334.8	227.8	165.6	145.6	154.4	179.3	200.2	212.3	213.0
42.5°	522.2	484.5	347.6	224.0	162.9	145.6	155.4	176.0	192.1	200.2	200.2
45°	586.1	539.7	367.0	219.7	157.5	144.6	152.7	168.5	179.3	183.3	183.3
47.5°	662.5	602.0	386.9	216.8	153.4	142.3	148.7	159.4	165.2	165.6	164.8
50°	759.1	680.6	411.5	212.3	151.1	140.0	144.9	152.1	155.4	154.1	153.4
52.5°	851.2	750.7	429.0	206.9	149.7	139.0	143.0	149.1	150.0	146.1	144.9
55°	961.2	832.6	441.1	198.2	148.4	139.6	143.0	148.0	147.3	142.0	140.9
57.5°	1070.9	909.8	451.8	190.4	147.1	140.7	144.4	148.7	147.3	142.3	141.4
60°	1155.0	962.7	445.7	182.4	145.6	142.3	146.8	151.1	151.1	147.1	146.8
62.5°	1220.9	994.2	431.4	173.9	144.6	143.6	149.7	156.1	157.5	154.4	154.1
65°	1235.8	981.5	403.3	165.8	143.3	144.6	153.8	161.9	162.9	159.8	159.4
67°	1201.2	937.7	369.2	159.1	141.4	144.9	156.5	165.2	166.5	163.5	162.6
67.5°	1186.0	920.6	360.3	157.5	140.7	144.9	156.8	165.6	167.3	164.2	163.2
70°	1069.9	818.5	313.6	148.0	136.3	143.3	157.5	168.0	168.9	165.2	163.9
72.5°	886.5	660.2	259.4	139.0	131.0	139.0	155.0	166.1	165.8	160.4	159.4
75°	702.8	517.5	208.9	128.5	123.4	132.2	148.7	158.6	156.5	150.0	148.7
77.5°	534.0	386.9	169.9	118.0	115.1	123.4	137.9	144.9	140.9	134.9	133.6
80°	380.5	278.6	138.2	108.3	106.0	113.4	124.4	128.2	125.6	119.7	118.0
82.5°	266.2	200.2	115.1	98.5	97.2	102.9	110.0	113.7	112.4	107.3	106.0
85°	184.1	140.0	96.8	88.8	88.2	92.2	96.6	99.0	99.9	97.2	95.6
87.5°	123.8	102.9	82.5	78.1	78.4	81.4	84.4	86.7	89.8	89.6	87.9
90°	88.6	77.1	69.0	67.0	67.6	71.0	72.4	73.8	77.3	77.3	76.4
92.5°	63.2	58.5	55.9	55.2	56.6	59.2	59.8	60.2	62.9	63.2	61.3
95°	45.0	42.7	43.7	44.5	45.8	48.1	47.8	46.7	48.1	48.1	46.4
97.5°	33.2	32.7	34.7	35.4	36.3	38.4	37.4	35.7	36.7	35.4	34.3
100°	25.6	25.6	27.9	28.2	28.9	30.0	29.6	28.2	28.6	26.9	26.2
102.5°	20.2	20.5	22.2	22.5	23.3	24.3	23.5	22.8	22.2	20.2	20.2
105°	15.8	16.2	17.4	17.8	18.5	19.6	19.1	18.1	17.2	15.5	15.5
107.5°	12.0	12.8	13.8	14.2	14.8	15.8	15.5	14.2	12.8	11.8	11.8



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CATALOG NUMBER: LXF.LXT-AF24-30-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.4	10.2	11.0	11.5	11.8	12.8	12.0	10.8	9.7	9.2	9.2
112.5°	7.7	8.1	9.2	9.4	9.7	10.4	9.7	8.4	7.4	7.0	7.0
115°	6.4	6.7	7.4	7.7	8.4	8.4	7.7	6.4	5.7	5.7	5.7
117.5°	5.4	5.7	6.4	6.7	6.7	7.0	6.1	5.0	4.4	4.8	4.8
120°	4.8	4.8	5.4	5.4	5.7	5.7	5.0	4.0	3.4	3.8	4.0
122.5°	4.0	4.0	4.4	4.8	4.8	4.8	4.0	3.4	2.6	3.1	3.4
125°	3.4	3.8	3.8	4.0	4.0	4.0	3.4	2.6	2.3	2.6	2.6
127.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.6	2.1	2.1	2.3	2.3
130°	3.1	3.1	3.1	3.1	2.6	2.3	2.1	1.3	1.6	2.1	2.1
132.5°	2.6	2.6	2.6	2.3	2.1	1.6	1.3	1.0	1.0	1.6	1.6
135°	2.3	2.3	2.1	1.6	1.3	1.0	0.7	0.7	0.7	1.3	1.3
137.5°	2.1	2.1	1.6	1.3	1.0	0.7	0.3	0.0	0.3	0.7	0.7
140°	2.1	2.1	1.6	1.0	0.7	0.3	0.0	0.0	0.0	0.3	0.3
142.5°	1.6	1.6	1.3	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.3	1.3	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.0	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.3	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)