

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: P266051

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-35)
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-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2799.2 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - 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

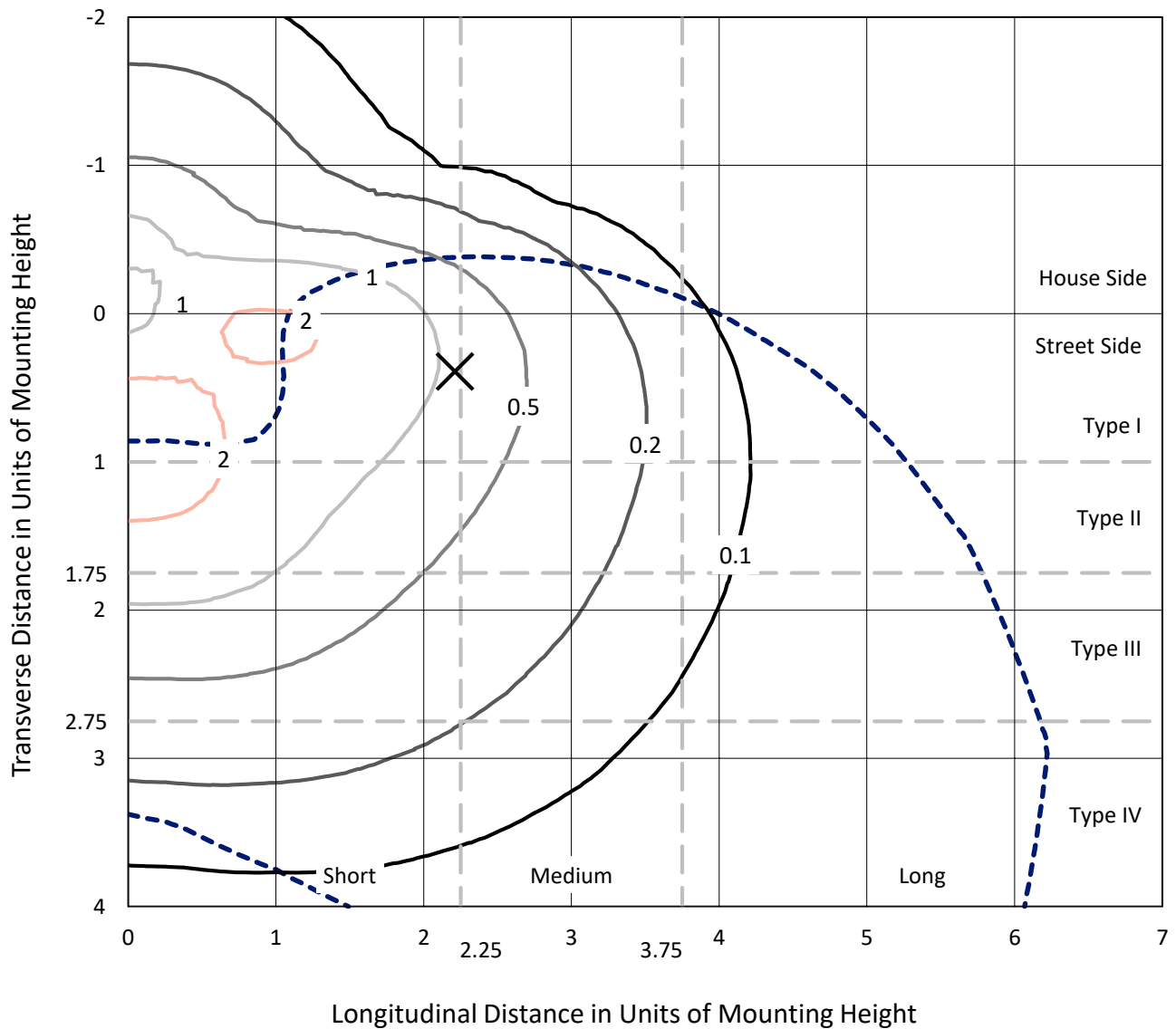


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

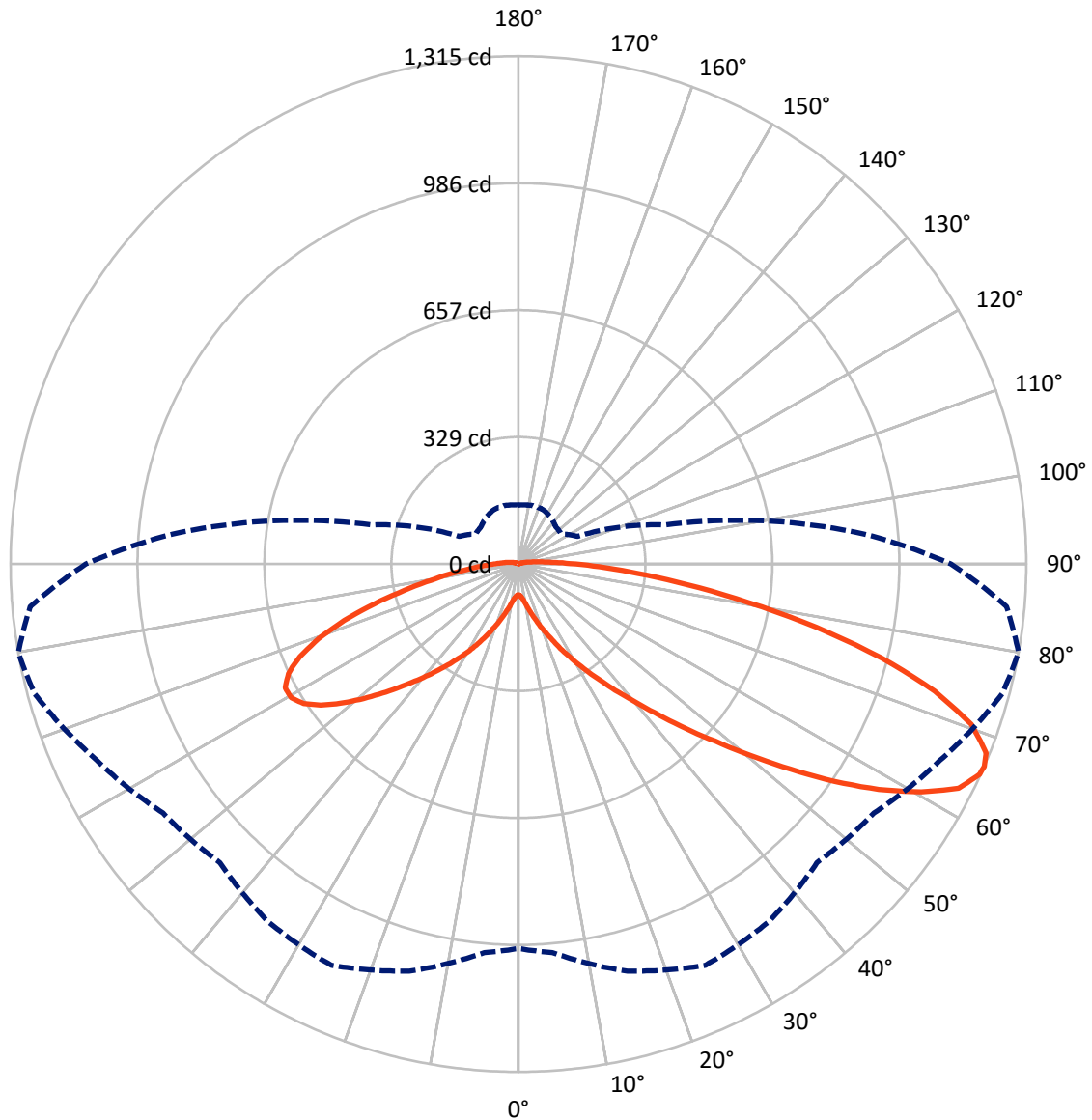


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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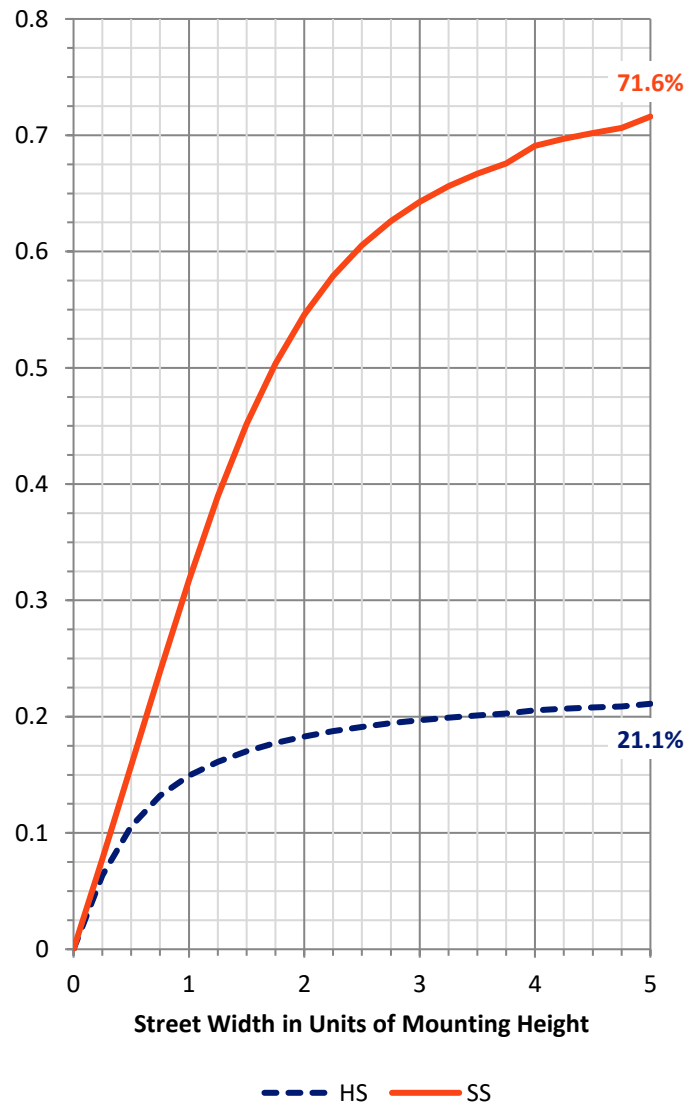
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.8	40.0	660.8
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	2084.8	53.6	2138.4
	% Fixture	74.5	1.9	76.4
Total	Lumens	2705.6	93.6	2799.2
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.3
10°-20°	38.0	1.4
20°-30°	97.0	3.5
30°-40°	192.0	6.9
40°-50°	332.8	11.9
50°-60°	530.6	19.0
60°-70°	689.9	24.6
70°-80°	570.6	20.4
80°-90°	246.2	8.8
90°-100°	64.2	2.3
100°-110°	18.9	0.7
110°-120°	7.1	0.3
120°-130°	2.4	0.1
130°-140°	0.8	0.0
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2705.6	96.7
0°-180°	2799.2	100.0



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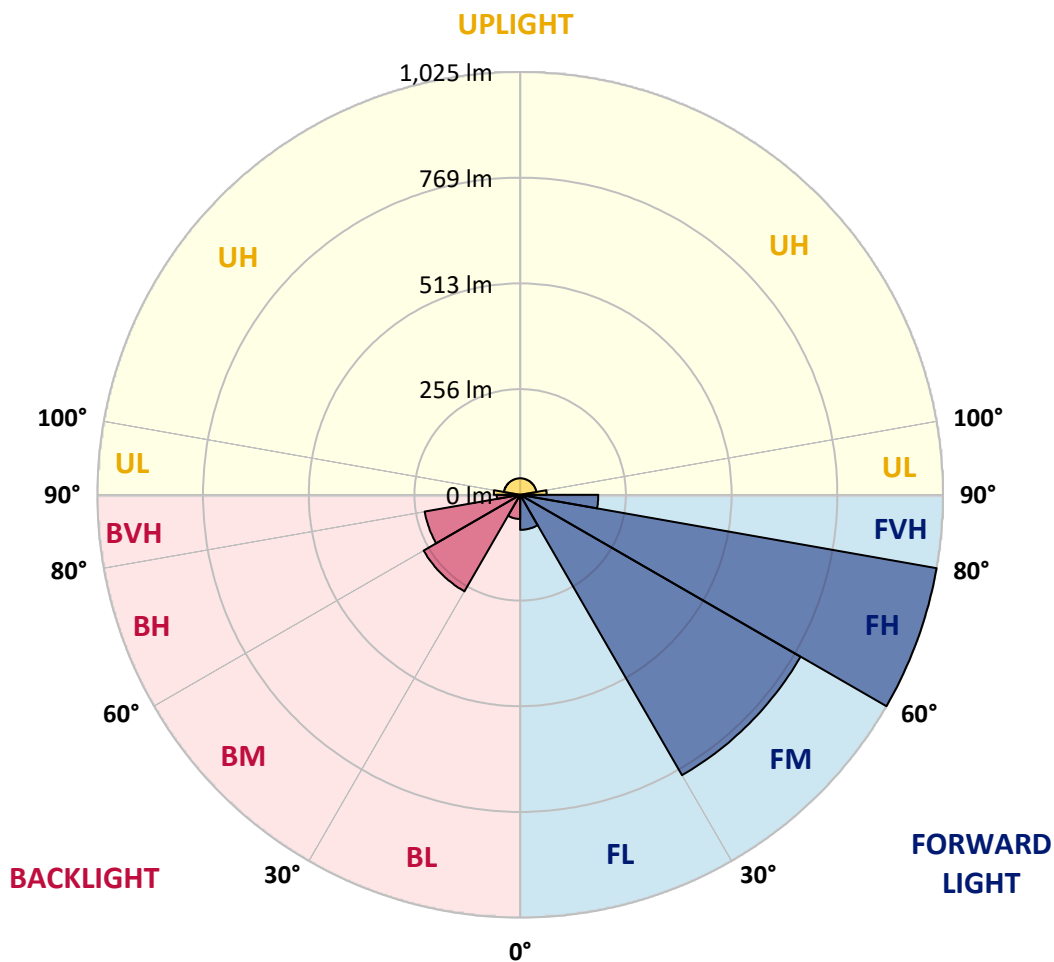
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	85.0	3.0			
FM (30°-60°)	785.0	28.0			
FH (60°-80°)	1025.3	36.6			G1/1800
FVH (80°-90°)	189.4	6.8			G2/225
BL (0°-30°)	58.6	2.1	B0/110		
BM (30°-60°)	270.4	9.7	B1/1000		
BH (60°-80°)	235.1	8.4	B1/500		G1/500
BVH (80°-90°)	56.7	2.0			G1/100
UL (90°-100°)	64.2	2.3		U3/500	
UH (100°-180°)	40.0	1.4		U2/50	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
2.5°	85.8	85.5	85.8	85.8	85.5	85.1	84.1	83.5	82.5	81.7	81.3
5°	92.9	92.5	92.5	92.5	92.2	91.4	90.2	88.8	87.5	86.4	86.1
7.5°	102.9	102.0	102.0	101.6	100.9	99.9	98.3	96.8	95.5	93.9	93.2
10°	116.7	116.2	115.1	114.4	112.6	111.7	109.7	107.9	107.0	105.6	104.4
12.5°	133.2	134.2	133.6	130.9	128.8	127.2	124.4	123.4	122.4	120.8	119.7
15°	154.8	155.4	153.7	151.1	147.7	145.6	143.0	140.7	140.0	137.9	136.6
17.5°	179.3	180.6	178.0	173.9	169.6	164.8	162.9	160.4	159.4	157.5	156.0
20°	208.5	209.9	206.3	200.1	193.8	187.0	184.7	181.9	181.6	179.7	178.7
22.5°	242.9	243.9	238.2	229.4	220.4	211.6	207.9	205.3	205.5	203.8	203.6
25°	282.5	283.0	274.8	263.5	249.5	237.8	232.8	231.5	232.8	231.9	231.1
27.5°	327.3	327.1	319.5	301.8	280.9	264.8	258.7	259.0	262.0	262.8	262.8
30°	376.7	378.1	365.7	342.4	315.2	292.9	286.6	287.9	296.7	296.7	296.7
32.5°	434.3	434.1	419.9	386.2	352.2	324.9	316.6	317.9	328.7	333.7	332.1
35°	498.6	497.9	480.5	437.4	392.6	359.0	347.6	353.9	368.8	374.5	373.1
37.5°	567.5	567.5	547.0	494.2	436.7	396.0	383.4	390.6	411.5	420.9	415.8
40°	638.2	638.5	614.4	558.4	486.8	436.3	422.3	434.6	464.0	473.0	469.6
42.5°	708.9	706.7	684.2	622.0	540.6	481.8	464.7	485.4	521.0	534.0	529.2
45°	780.2	778.8	758.3	689.0	599.4	530.9	513.0	539.9	586.4	606.9	602.1
47.5°	849.1	849.1	829.9	756.3	663.4	586.8	570.6	603.9	662.7	685.2	686.2
50°	914.0	915.1	898.6	829.9	728.6	648.2	634.2	677.5	754.2	778.8	780.4
52.5°	974.7	977.3	966.5	906.6	801.6	716.8	706.7	756.0	845.8	881.7	886.1
55°	1028.4	1029.5	1028.1	978.0	876.7	788.9	785.5	844.3	954.8	993.4	993.4
57.5°	1066.1	1072.1	1084.7	1043.9	954.8	867.7	867.0	936.3	1054.7	1100.8	1098.1
60°	1083.3	1090.0	1121.7	1102.8	1027.1	946.6	953.7	1032.2	1161.0	1198.0	1195.6
62.5°	1072.4	1081.2	1132.8	1142.1	1084.7	1020.4	1033.8	1118.2	1235.7	1279.0	1252.7
65°	1022.7	1035.4	1107.5	1150.9	1122.6	1076.4	1102.1	1185.9	1286.8	1312.3	1272.7
66°	995.4	1009.5	1091.0	1145.8	1130.0	1093.0	1123.3	1203.6	1296.6	1314.7	1268.6
67.5°	950.0	961.5	1054.7	1127.6	1133.4	1115.2	1148.6	1221.2	1293.9	1306.0	1246.8
70°	844.0	858.2	961.1	1071.1	1116.2	1129.3	1166.0	1219.2	1261.0	1244.1	1165.3
72.5°	715.2	737.4	839.6	973.9	1062.1	1107.8	1147.9	1175.2	1173.5	1127.6	1033.8
75°	569.5	583.3	691.6	837.0	960.5	1045.5	1085.6	1080.9	1038.8	970.2	864.9
77.5°	425.3	439.0	535.2	678.6	819.9	927.5	963.8	943.3	865.2	789.3	687.4
80°	299.4	311.5	391.9	525.8	662.4	773.4	803.8	774.3	678.8	603.5	516.7
82.5°	204.3	209.6	276.9	392.9	516.3	610.9	640.2	602.6	511.3	439.7	372.1
85°	125.6	133.2	188.0	279.9	379.9	452.4	475.4	445.7	367.3	310.2	256.3
87.5°	73.3	77.8	116.4	188.7	273.2	332.7	344.5	316.9	252.0	209.9	170.1
90°	39.3	42.7	67.0	117.8	185.4	230.1	238.9	213.3	164.8	133.8	109.1
92.5°	23.3	25.2	40.1	71.0	118.8	151.4	157.5	136.9	103.7	85.8	71.3
95°	15.1	16.4	26.2	44.3	73.0	95.8	99.0	84.8	65.5	56.6	49.4
97.5°	11.0	11.8	18.9	30.3	46.2	58.8	61.3	52.6	43.4	39.0	35.4
100°	8.8	9.4	14.5	22.2	30.9	38.0	38.6	34.3	30.0	27.6	26.2
102.5°	7.4	7.7	11.8	17.4	23.3	26.9	27.3	24.3	21.2	19.9	19.6
105°	6.4	6.7	10.2	14.5	18.5	20.9	20.9	18.1	15.5	14.5	14.8
107.5°	5.4	5.7	8.4	12.0	15.5	17.2	16.8	14.2	11.5	10.4	10.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	4.8	5.0	7.4	10.4	13.5	14.5	13.8	11.0	8.1	7.4	7.7
112.5°	4.4	4.4	6.4	9.2	11.5	12.0	11.0	8.4	5.7	5.4	5.7
115°	3.8	4.0	5.4	7.7	9.4	10.2	9.2	6.4	4.0	4.0	4.4
117.5°	3.4	3.8	4.8	6.4	8.1	8.4	7.4	5.0	3.1	3.1	3.4
120°	3.1	3.1	4.0	5.4	6.7	6.7	5.7	3.8	2.3	2.3	2.6
122.5°	2.6	3.1	3.4	4.4	5.4	5.4	4.4	2.6	2.1	2.1	2.3
125°	2.3	2.6	3.1	3.8	4.4	4.4	3.4	2.1	1.6	2.1	2.1
127.5°	2.3	2.3	2.6	3.1	3.8	3.4	2.6	1.3	1.6	1.6	2.1
130°	2.1	2.1	2.3	2.3	2.6	2.6	2.1	1.3	1.3	1.6	1.6
132.5°	1.6	1.6	2.1	2.1	2.3	2.1	1.3	1.0	1.3	1.3	1.6
135°	1.3	1.3	1.3	1.6	1.6	1.3	1.0	1.0	1.3	1.3	1.3
137.5°	1.3	1.0	1.3	1.3	1.0	0.7	0.7	0.7	1.0	1.3	1.3
140°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.7	1.0	1.0	1.3
142.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0
145°	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.7	0.7	1.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.7	0.7
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
2.5°	81.0	80.8	79.7	79.1	78.4	77.8	77.8	77.8	77.3	77.1	77.1
5°	85.5	84.8	83.5	82.0	80.4	79.1	78.4	78.1	77.3	76.6	76.6
7.5°	92.5	91.4	89.1	86.4	84.8	82.7	82.0	81.3	80.4	79.7	79.4
10°	103.2	101.6	97.8	94.5	91.2	88.5	87.5	86.7	86.1	86.1	86.1
12.5°	117.8	115.7	111.0	104.9	100.9	96.8	95.5	95.2	95.5	95.8	95.8
15°	134.6	131.2	125.1	117.0	111.4	107.0	105.6	105.6	106.3	106.7	106.7
17.5°	154.1	150.0	140.0	130.6	122.8	118.0	116.2	116.2	117.4	118.0	118.4
20°	174.6	170.1	158.8	143.6	133.8	128.5	126.1	126.5	128.2	129.8	130.2
22.5°	198.2	193.0	176.0	157.5	144.6	137.6	134.8	136.0	138.6	140.9	141.7
25°	225.0	218.6	196.1	172.2	154.4	144.9	143.0	144.9	148.9	152.1	152.4
27.5°	254.3	246.2	216.6	185.7	161.9	149.7	148.4	152.4	157.2	160.7	161.4
30°	287.0	276.9	238.2	197.4	167.5	153.4	152.1	157.5	163.1	167.5	168.3
32.5°	323.3	309.5	259.0	207.6	170.9	154.8	154.1	160.4	167.5	171.9	172.6
35°	362.6	344.5	281.2	215.7	172.2	154.4	154.1	161.4	168.9	173.3	173.6
37.5°	406.5	384.1	302.4	221.7	171.9	153.2	153.2	160.7	167.9	171.9	171.9
40°	456.9	427.2	325.6	225.7	170.1	150.7	151.1	158.1	164.8	167.5	167.9
42.5°	514.4	477.0	346.8	227.5	166.8	148.0	148.0	155.0	160.4	161.9	161.9
45°	580.3	532.5	370.0	227.1	163.5	144.9	145.3	151.4	155.4	155.8	155.4
47.5°	659.4	596.8	391.9	225.7	158.8	141.9	143.0	148.4	151.4	151.1	150.7
50°	746.1	666.2	413.5	222.7	154.8	140.0	141.4	146.3	148.9	148.0	147.3
52.5°	840.0	738.4	432.7	218.0	150.3	138.2	140.7	145.6	148.0	146.3	146.3
55°	937.2	810.1	447.7	210.9	146.7	137.3	140.9	145.6	148.4	146.7	146.7
57.5°	1025.3	871.6	454.8	202.8	143.6	136.9	141.7	147.3	149.7	148.4	148.4
60°	1094.7	914.7	450.1	193.4	140.7	136.6	143.0	149.4	152.1	150.3	150.3
62.5°	1136.0	933.9	433.3	183.3	138.2	136.9	144.9	152.4	154.4	152.4	151.8
65°	1134.4	914.0	405.0	172.6	136.0	136.9	146.3	154.1	155.8	153.4	152.4
66°	1119.6	896.9	390.6	168.5	135.3	136.6	146.7	154.1	156.0	153.4	152.4
67.5°	1091.7	861.6	366.7	162.1	133.6	136.3	147.1	154.4	155.8	153.4	152.1
70°	1003.5	783.1	322.0	151.4	130.6	134.6	146.1	153.4	154.4	152.4	151.1
72.5°	871.6	671.8	276.6	140.7	126.5	130.9	143.3	150.0	151.8	149.7	148.4
75°	716.2	545.0	231.1	130.2	120.5	125.6	137.9	144.6	146.7	144.9	143.3
77.5°	556.8	417.2	187.7	120.2	113.4	118.8	130.6	136.6	138.6	136.6	135.6
80°	413.1	308.5	150.7	109.4	105.3	110.3	121.5	126.8	128.8	126.5	125.9
82.5°	296.4	223.7	120.2	97.6	95.5	100.3	110.3	115.1	116.7	115.4	113.0
85°	198.2	154.1	95.0	84.8	85.1	89.6	97.8	100.9	102.9	101.6	99.6
87.5°	134.2	105.6	75.0	72.0	73.0	76.0	83.7	86.1	87.5	85.8	85.5
90°	87.5	73.0	59.6	60.8	62.3	64.6	69.3	70.2	72.0	70.2	70.0
92.5°	59.6	53.4	48.5	50.8	52.6	54.2	56.9	57.5	58.8	57.5	56.9
95°	43.7	41.4	39.3	42.4	44.0	45.0	46.7	46.4	47.4	46.2	45.5
97.5°	33.2	32.0	32.2	34.9	36.7	37.3	38.0	37.3	37.6	36.3	35.7
100°	26.0	25.2	26.2	28.9	30.3	30.3	30.6	30.0	29.3	27.8	26.9
102.5°	19.9	19.9	21.2	23.9	25.0	25.0	24.6	23.5	22.5	21.2	21.2
105°	15.1	15.5	17.4	19.9	20.5	20.2	20.2	18.9	17.4	15.8	15.8
107.5°	11.5	11.8	13.8	16.2	16.8	16.8	16.2	14.8	13.1	11.8	11.8



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.4	9.2	11.0	13.1	13.8	13.5	13.1	11.5	9.7	8.8	8.4
112.5°	6.4	6.7	8.8	10.4	11.0	11.0	10.4	8.8	7.0	6.4	6.4
115°	4.8	5.4	6.7	8.4	8.8	8.8	8.1	6.7	5.0	4.4	4.8
117.5°	3.8	4.0	5.4	6.7	6.7	6.7	6.1	4.8	3.8	3.4	3.4
120°	3.1	3.4	4.0	5.0	5.0	5.0	4.4	3.4	2.6	2.3	2.6
122.5°	2.3	2.6	3.1	3.8	3.8	3.8	3.4	2.3	1.6	1.6	2.1
125°	2.3	2.3	2.3	2.6	2.6	2.6	2.3	1.6	1.3	1.3	1.3
127.5°	2.1	2.1	2.1	2.1	2.1	1.6	1.3	1.0	0.7	1.0	1.0
130°	2.1	2.1	1.6	1.6	1.3	1.0	0.7	0.3	0.3	0.7	0.7
132.5°	1.6	1.6	1.6	1.3	1.0	0.7	0.3	0.0	0.0	0.3	0.3
135°	1.6	1.6	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0
137.5°	1.3	1.3	1.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.3	1.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.0	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.0	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.0	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)