

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: P254742

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)
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-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2400.9 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U2 - G1

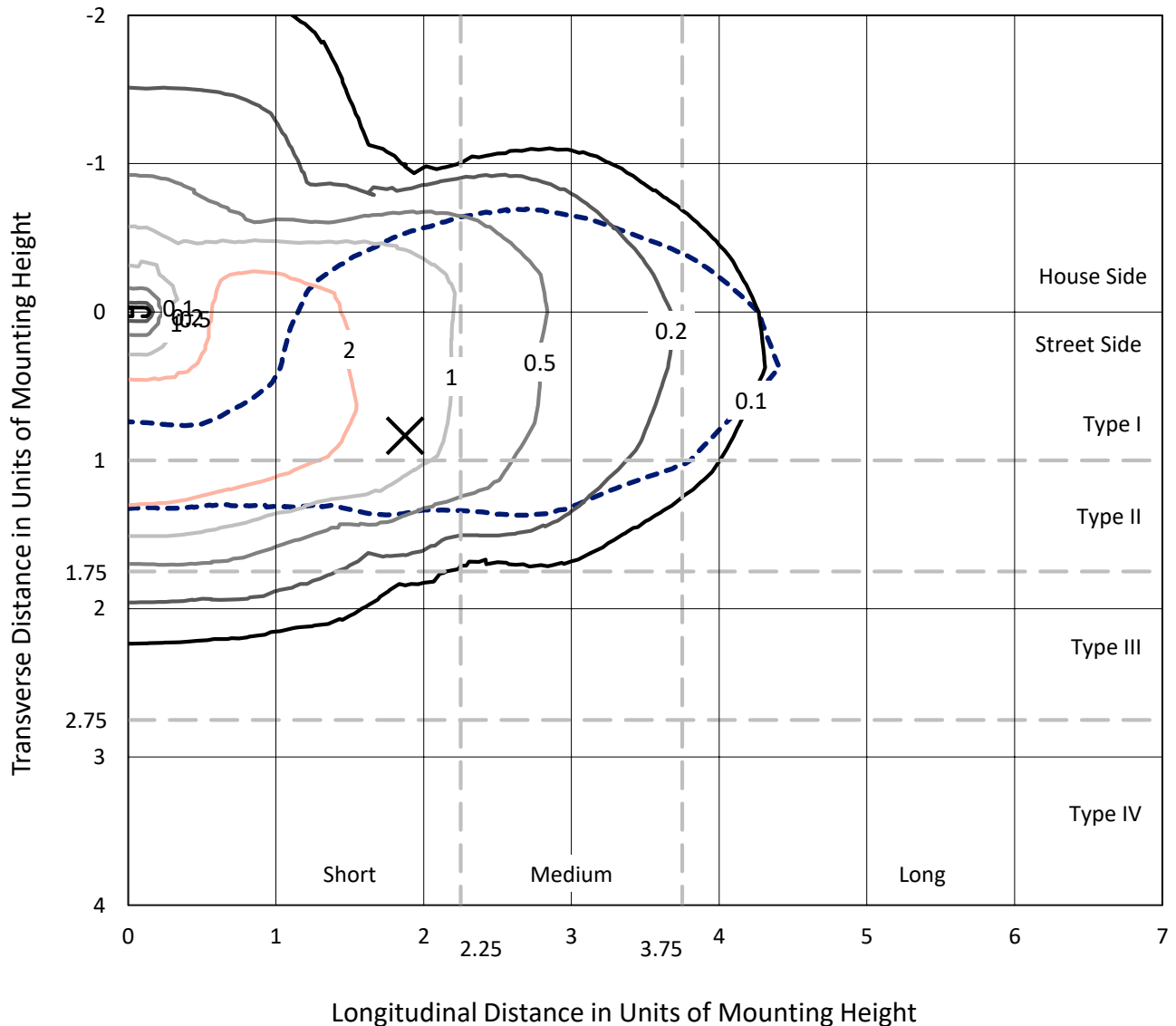
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

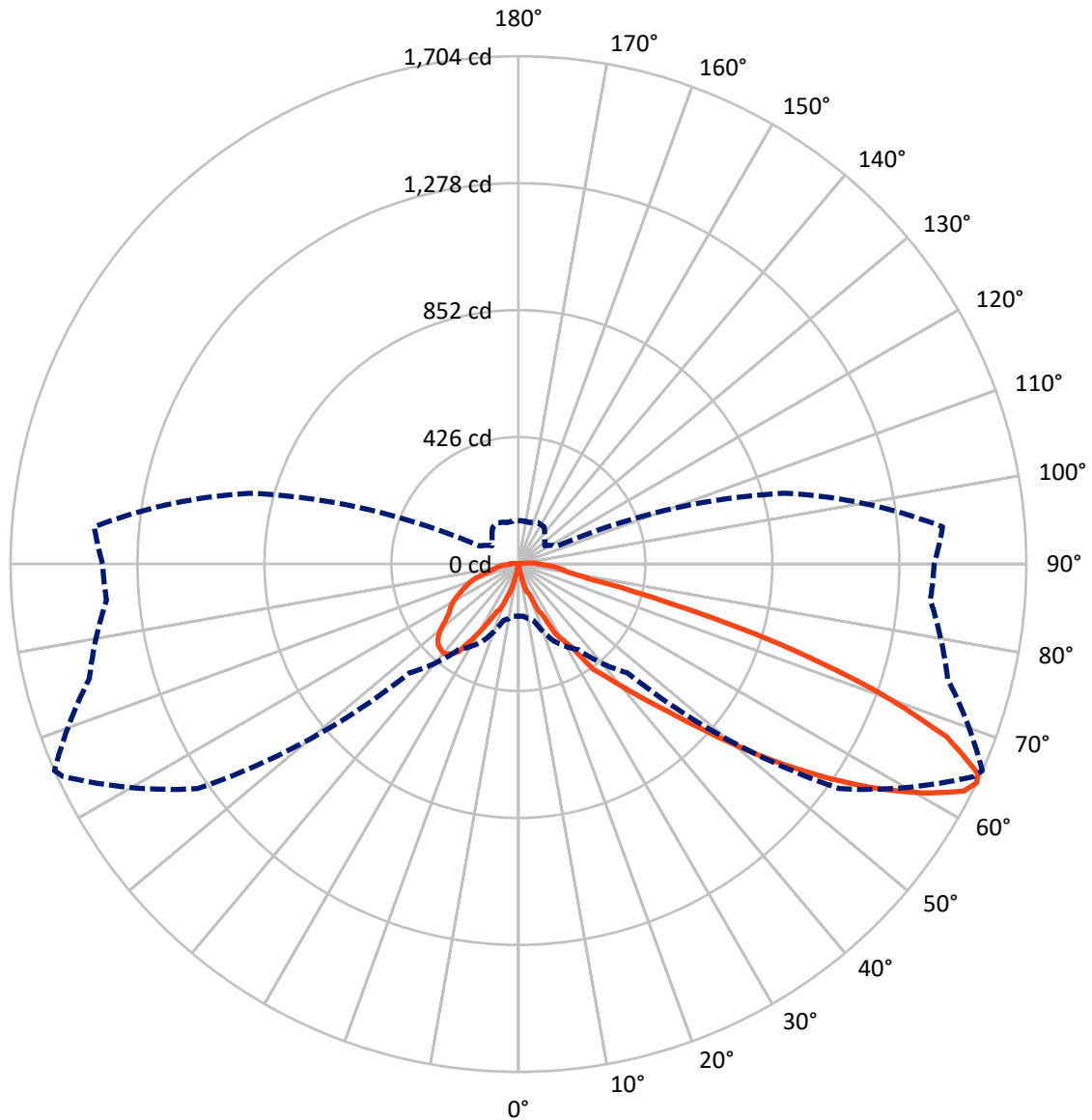
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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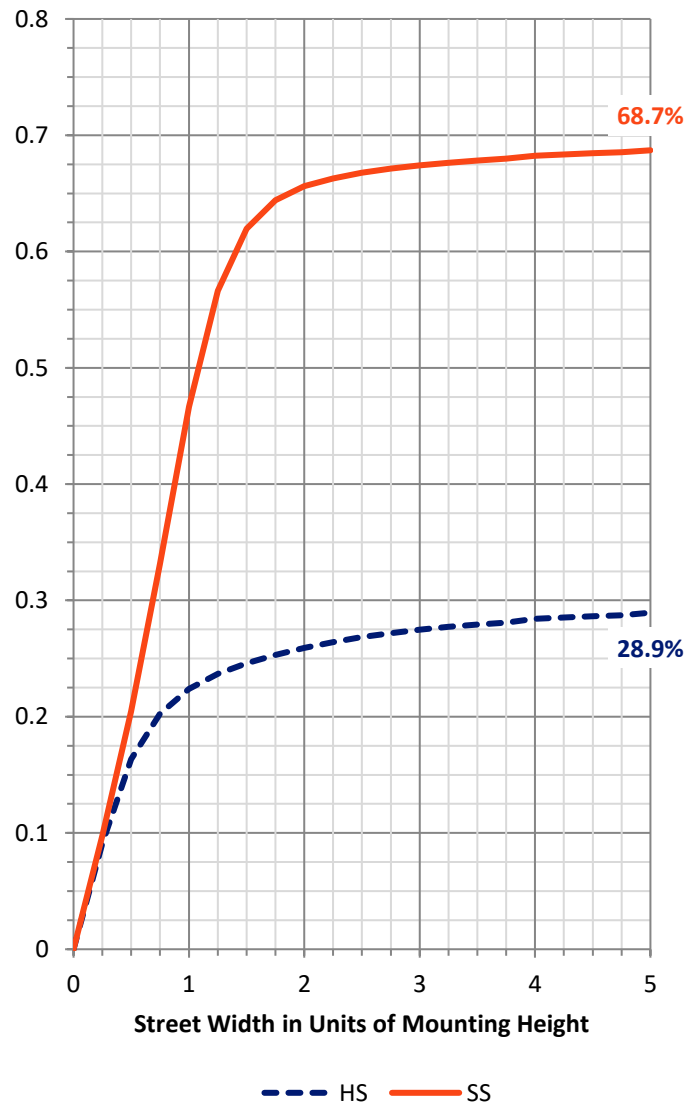
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.5	14.7	725.2
	% Fixture	29.6	0.6	30.2
Street Side	Lumens	1662.3	13.4	1675.7
	% Fixture	69.2	0.6	69.8
Total	Lumens	2372.8	28.1	2400.9
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.1
10°-20°	23.3	1.0
20°-30°	93.8	3.9
30°-40°	237.5	9.9
40°-50°	452.9	18.9
50°-60°	607.5	25.3
60°-70°	562.5	23.4
70°-80°	316.4	13.2
80°-90°	77.4	3.2
90°-100°	23.6	1.0
100°-110°	2.8	0.1
110°-120°	0.8	0.0
120°-130°	0.5	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2372.8	98.8
0°-180°	2400.9	100.0



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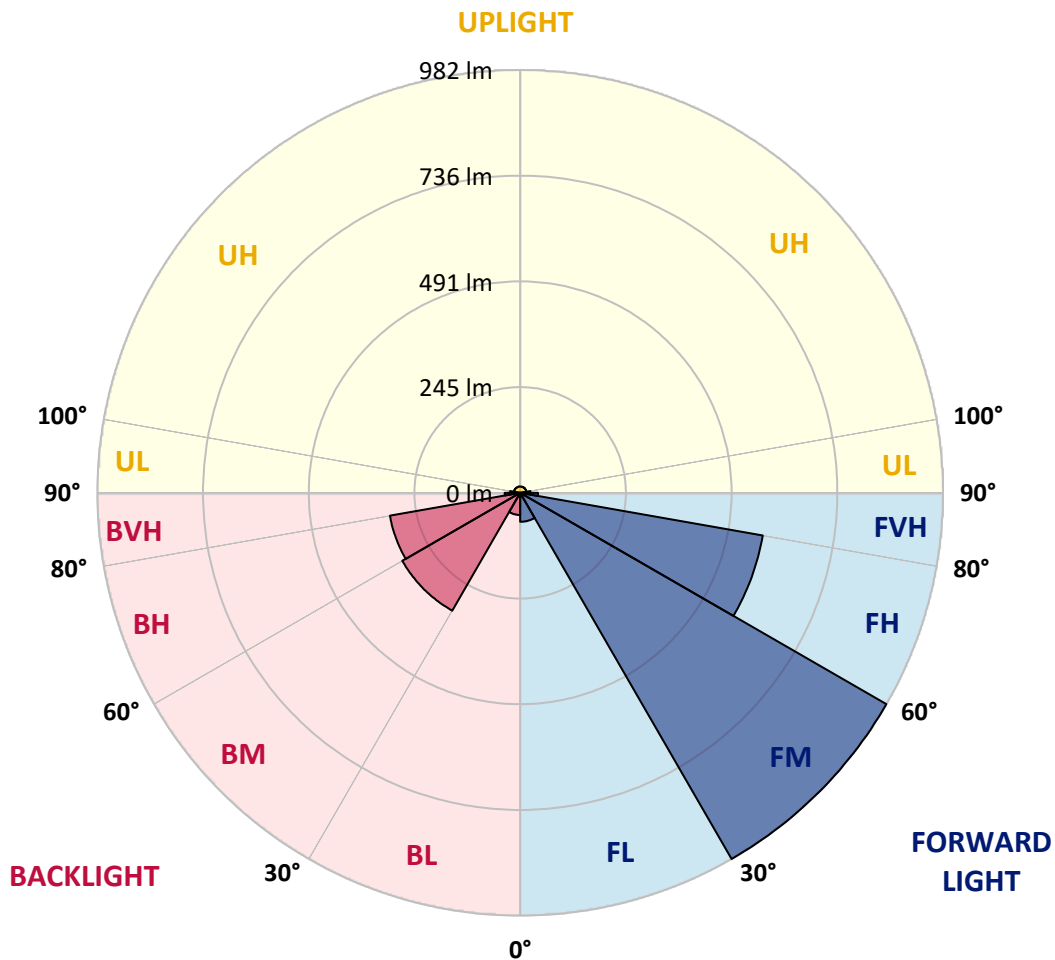
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.2	2.8			
FM	(30°-60°)	981.8	40.9			
FH	(60°-80°)	571.9	23.8			G0/660
FVH	(80°-90°)	41.4	1.7			G1/100
BL	(0°-30°)	51.4	2.1	B0/110		
BM	(30°-60°)	316.1	13.2	B1/1000		
BH	(60°-80°)	306.9	12.8	B1/500		G1/500
BVH	(80°-90°)	36.0	1.5			G1/100
UL	(90°-100°)	23.6	1.0		U2/50	
UH	(100°-180°)	14.7	0.6		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
2.5°	2.9	2.9	2.9	3.1	2.9	2.6	2.3	1.7	1.4	0.8	0.8
5°	36.9	36.9	36.7	35.6	11.0	5.6	3.7	2.3	2.3	1.4	0.8
7.5°	41.5	41.2	41.2	40.1	39.8	36.7	18.6	3.7	3.4	1.9	1.1
10°	46.0	44.9	44.3	43.5	43.8	41.2	38.4	18.1	10.4	4.0	3.1
12.5°	85.2	84.7	82.1	69.2	48.0	44.0	43.2	36.1	35.0	30.2	35.3
15°	94.3	92.6	90.9	90.6	85.8	53.6	68.0	88.9	89.7	69.2	74.8
17.5°	110.1	107.3	101.6	97.4	94.8	110.1	101.4	98.2	99.1	84.7	84.4
20°	166.8	166.5	163.7	144.5	108.4	136.1	130.9	112.3	111.8	153.0	149.4
22.5°	196.7	191.9	188.2	182.1	186.3	149.0	159.2	163.7	167.4	175.5	168.0
25°	295.8	271.5	259.4	210.8	221.9	188.5	209.7	191.9	190.3	196.2	211.4
27.5°	341.3	342.7	333.1	315.9	256.2	264.5	234.1	269.0	266.8	271.5	260.5
30°	454.5	446.8	394.7	377.7	331.3	301.5	322.6	302.6	296.1	290.4	288.0
32.5°	560.3	560.1	545.9	475.9	417.2	352.8	366.9	336.1	338.2	374.8	383.9
35°	724.9	714.1	629.4	586.9	498.5	450.5	412.1	437.2	433.8	428.7	432.4
37.5°	915.1	901.5	829.6	696.3	604.4	516.8	512.0	494.0	481.5	487.2	490.9
40°	1026.6	1015.3	952.4	839.2	705.4	632.6	585.7	558.9	543.7	565.9	565.1
42.5°	1105.9	1096.1	1059.9	943.1	848.2	770.6	673.2	634.8	619.0	653.2	639.9
45°	1146.3	1129.0	1124.8	1036.8	972.9	938.3	794.3	727.9	708.2	744.6	728.9
47.5°	1125.7	1106.7	1123.1	1067.2	1085.4	1083.9	944.8	836.4	823.4	853.9	830.1
50°	1030.0	1019.0	1054.3	1061.9	1142.9	1201.9	1112.2	951.2	967.6	953.0	936.8
52.5°	872.5	868.0	924.4	988.0	1134.1	1279.2	1266.2	1082.8	1119.5	1053.9	1032.6
55°	705.1	705.9	767.5	842.6	1043.0	1290.2	1400.3	1239.7	1271.0	1155.9	1126.0
57.5°	514.9	537.5	607.7	671.5	869.7	1218.0	1483.3	1396.6	1422.6	1261.2	1211.2
60°	333.9	342.1	426.8	528.1	641.3	998.9	1515.5	1540.4	1560.4	1370.4	1292.5
62.5°	220.4	221.3	256.2	373.2	443.4	697.2	1437.0	1658.9	1678.0	1454.5	1361.6
64°	175.5	175.3	195.9	286.5	352.0	516.0	1314.3	1686.2	1704.3	1491.0	1387.6
65°	155.0	154.7	169.6	230.4	300.8	412.4	1191.7	1676.4	1693.9	1507.3	1394.7
67.5°	131.6	132.1	138.0	158.4	217.9	248.1	729.1	1536.1	1550.5	1494.6	1370.1
70°	121.4	121.9	129.0	133.0	171.9	184.3	317.0	1254.6	1271.3	1436.7	1313.7
72.5°	107.0	107.8	117.1	127.3	136.4	153.0	201.8	863.5	911.1	1246.0	1237.8
75°	89.5	90.3	99.1	112.3	118.9	124.8	174.7	458.1	517.4	937.7	1103.2
77.5°	73.1	73.7	81.0	90.0	108.1	96.8	153.0	234.3	248.4	593.3	815.8
80°	53.9	54.5	62.4	72.2	83.9	84.4	126.1	168.8	169.6	324.6	440.4
82.5°	36.9	37.2	45.1	50.8	59.2	78.2	101.1	139.1	146.2	192.8	202.3
85°	25.4	25.7	30.5	32.4	37.2	43.2	73.1	109.3	120.0	138.3	121.4
87.5°	12.2	12.7	13.3	14.1	14.6	15.2	31.3	80.4	84.7	92.3	96.0
90°	10.1	10.1	7.9	7.7	8.8	9.0	14.4	68.6	67.2	88.4	95.4
92.5°	10.1	10.1	7.4	7.1	7.9	7.7	10.4	56.5	54.7	87.0	94.3
95°	8.8	9.0	5.9	5.6	6.8	6.2	8.2	33.0	35.0	61.3	69.8
97.5°	7.4	7.4	4.5	4.5	4.8	4.5	5.3	12.2	13.5	26.0	30.8
100°	5.3	5.6	2.9	3.1	3.1	2.9	2.9	5.1	5.6	7.1	6.8
102.5°	4.5	5.1	1.9	2.3	1.7	1.7	1.4	2.3	2.3	3.7	5.3
105°	3.4	4.0	1.4	1.4	1.1	1.1	0.6	1.7	1.7	3.1	5.6
107.5°	1.9	2.3	0.8	0.8	0.8	1.1	0.6	1.1	1.4	2.6	4.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	0.8	0.8	0.3	0.6	0.3	0.8	0.6	1.1	1.4	1.1	2.6
112.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.6	1.4
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.3	0.6	1.4
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	1.4
120°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	1.4
122.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	1.1
125°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1
127.5°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8
130°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8
132.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
135°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
137.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.8	0.8	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.3
147.5°	1.4	1.4	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3
150°	1.1	1.1	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3
152.5°	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
2.5°	0.8	1.1	1.1	1.4	1.4	1.7	1.7	1.7	1.7	1.4	1.4
5°	0.8	1.1	1.1	1.4	1.7	2.3	2.6	3.1	3.1	3.4	3.4
7.5°	1.1	1.1	1.4	1.7	2.6	4.2	12.7	40.4	41.7	45.4	45.7
10°	2.9	3.1	3.1	3.4	8.2	41.5	46.5	48.6	51.0	51.4	51.0
12.5°	37.2	35.8	34.5	10.7	40.9	49.9	51.4	54.2	55.6	59.8	59.8
15°	75.4	75.4	72.8	80.2	72.5	55.6	59.8	94.0	97.4	99.9	98.5
17.5°	85.5	85.5	83.9	101.6	109.3	88.1	96.3	103.6	105.9	106.4	106.2
20°	153.9	152.1	137.2	124.8	114.1	139.7	117.9	106.7	127.1	147.1	148.2
22.5°	167.4	165.1	161.4	163.7	149.9	143.9	135.2	142.0	146.5	147.3	147.6
25°	211.1	209.7	182.4	174.4	188.2	160.6	162.5	139.1	141.7	144.8	144.5
27.5°	261.7	257.2	243.4	208.9	197.0	189.5	153.5	147.1	162.5	163.5	162.9
30°	290.4	277.7	252.4	258.0	212.9	181.3	152.4	154.2	147.3	147.6	148.2
32.5°	387.3	372.0	339.3	300.0	227.2	170.5	147.6	138.3	149.4	151.3	152.1
35°	423.4	409.9	381.7	355.1	231.5	162.5	131.2	135.4	135.7	136.4	136.9
37.5°	473.6	454.7	431.3	372.0	230.1	143.1	127.9	128.5	137.5	139.1	140.0
40°	535.4	511.5	485.2	379.6	207.5	135.7	125.0	129.3	132.4	131.6	132.1
42.5°	608.6	576.1	539.4	370.6	175.8	132.4	125.0	127.9	128.5	125.9	125.9
45°	692.6	656.5	585.4	360.5	151.6	133.5	127.9	126.1	123.4	119.7	118.9
47.5°	784.7	742.7	627.8	340.7	134.6	132.7	129.6	123.4	120.2	117.1	117.1
50°	883.2	838.9	663.9	310.3	126.7	131.2	128.7	125.0	121.6	116.0	115.7
52.5°	977.5	941.3	708.8	268.7	119.1	132.4	135.2	127.1	122.2	114.6	114.6
55°	1068.7	1047.8	749.1	236.0	116.0	129.0	138.9	131.9	121.6	115.7	116.0
57.5°	1159.5	1157.1	795.4	214.0	112.3	127.1	143.7	135.4	127.1	121.1	121.1
60°	1262.8	1274.4	855.0	189.5	111.8	124.8	145.7	141.7	131.9	130.7	130.9
62.5°	1351.8	1382.0	900.4	160.9	108.1	123.1	149.0	147.6	137.8	136.7	138.3
64°	1395.5	1429.2	918.2	143.1	107.3	124.2	150.5	153.5	144.2	145.4	145.4
65°	1411.4	1444.4	923.3	131.2	106.4	124.8	150.7	155.5	145.7	145.4	145.4
67.5°	1411.9	1437.3	905.5	112.6	102.7	124.5	152.1	160.9	151.3	157.7	155.3
70°	1378.6	1345.6	836.7	99.6	102.2	124.8	151.0	158.0	149.6	164.3	162.9
72.5°	1286.9	1168.3	664.7	87.8	103.3	123.1	145.1	150.7	144.5	165.9	164.6
75°	1087.3	910.6	409.3	82.1	101.9	117.1	138.0	137.2	134.1	147.6	146.8
77.5°	747.2	599.2	195.9	80.2	99.9	108.9	122.5	121.1	117.7	123.4	121.6
80°	386.7	316.7	118.3	73.3	92.9	94.5	99.9	101.1	97.4	98.8	96.6
82.5°	182.9	167.2	99.3	66.9	79.6	70.0	77.6	81.3	74.8	75.1	67.2
85°	114.4	116.6	81.8	52.0	53.6	42.7	53.9	57.9	49.7	42.4	40.4
87.5°	94.8	99.1	60.5	29.1	24.9	21.7	30.5	31.9	22.9	19.2	17.8
90°	97.9	101.1	59.5	23.1	19.7	16.4	22.3	19.7	14.1	12.4	11.3
92.5°	97.1	98.5	59.0	22.3	18.6	14.9	18.9	15.2	11.0	9.6	8.8
95°	73.1	78.5	47.7	21.7	16.4	12.2	14.1	11.9	7.7	6.8	6.2
97.5°	30.2	35.6	28.2	20.6	12.7	9.0	9.3	8.2	4.5	4.0	3.7
100°	5.9	9.3	14.9	14.9	6.2	4.8	4.8	4.5	2.3	1.9	1.7
102.5°	5.9	5.6	6.8	8.2	2.9	1.4	1.7	2.3	1.4	1.9	1.9
105°	6.2	5.9	3.7	2.3	1.7	0.8	0.6	0.6	1.1	2.3	2.6
107.5°	5.6	5.6	2.6	1.7	1.4	1.1	0.3	0.3	0.8	2.6	2.9



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	2.9	3.1	1.9	1.4	1.4	1.1	0.3	0.0	0.8	2.9	3.1
112.5°	1.7	1.7	1.7	1.1	0.8	0.8	0.3	0.0	0.8	3.1	3.4
115°	1.7	1.7	1.4	1.1	0.8	0.6	0.0	0.0	0.8	3.4	3.7
117.5°	1.7	1.7	1.4	0.8	0.6	0.3	0.0	0.0	0.8	3.4	3.7
120°	1.7	1.7	1.4	0.8	0.6	0.3	0.0	0.0	0.8	3.1	3.4
122.5°	1.7	1.7	1.4	0.8	0.6	0.3	0.0	0.0	0.8	2.6	2.9
125°	1.4	1.4	1.1	0.8	0.6	0.3	0.0	0.0	0.6	2.3	2.3
127.5°	1.1	1.4	1.1	0.8	0.6	0.3	0.0	0.0	0.6	1.7	1.9
130°	1.1	1.1	0.8	0.8	0.6	0.3	0.0	0.0	0.3	1.4	1.7
132.5°	0.8	0.8	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.6	0.8
135°	0.3	0.6	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.3
137.5°	0.3	0.3	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
140°	0.3	0.3	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
142.5°	0.3	0.3	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
145°	0.3	0.6	0.6	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
147.5°	0.6	0.6	0.6	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
150°	0.6	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.3	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)