

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: P254365

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254365
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
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 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: 3277.5 lumens
Efficiency: N/A
Efficacy: 105.7 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

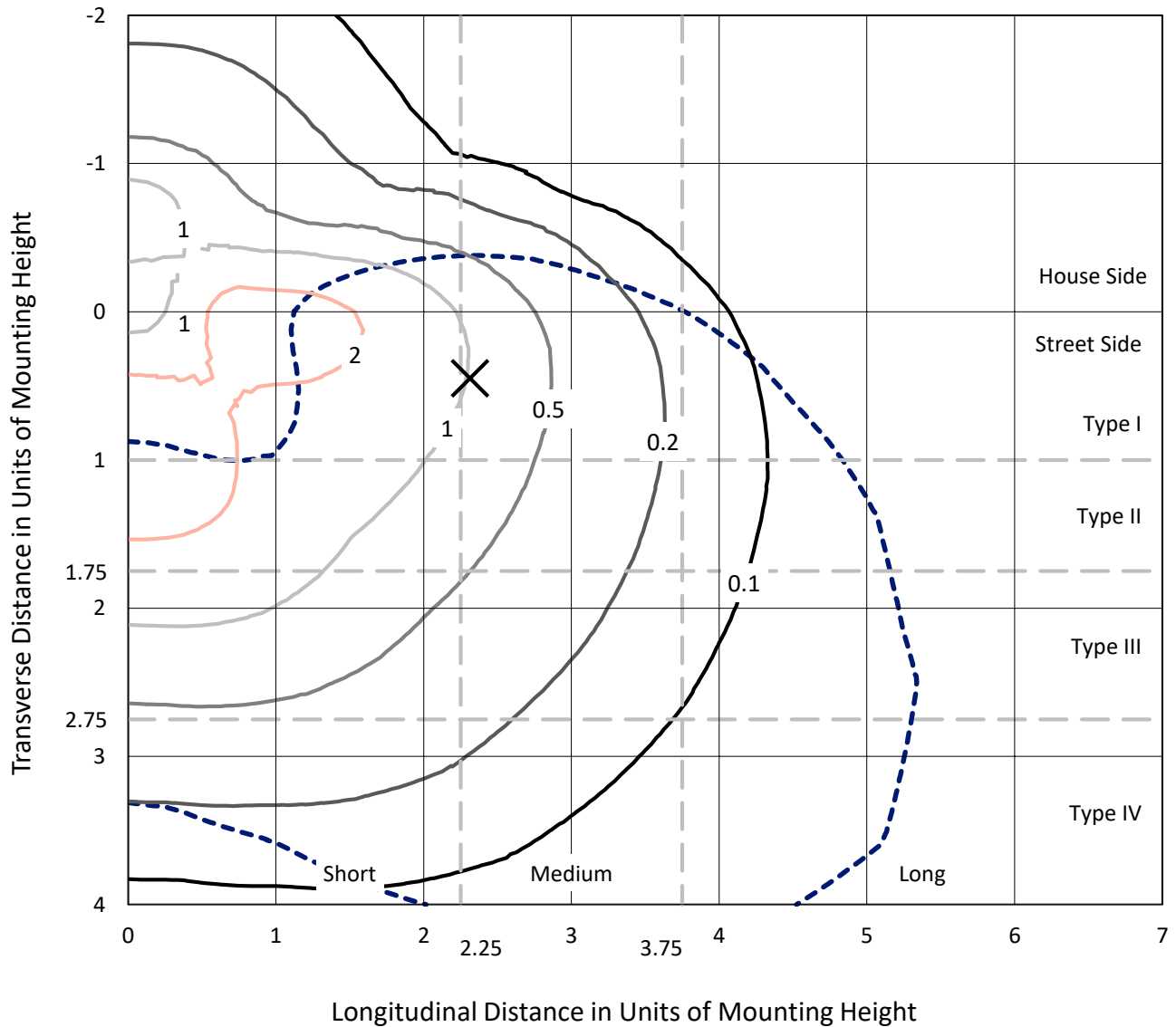
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

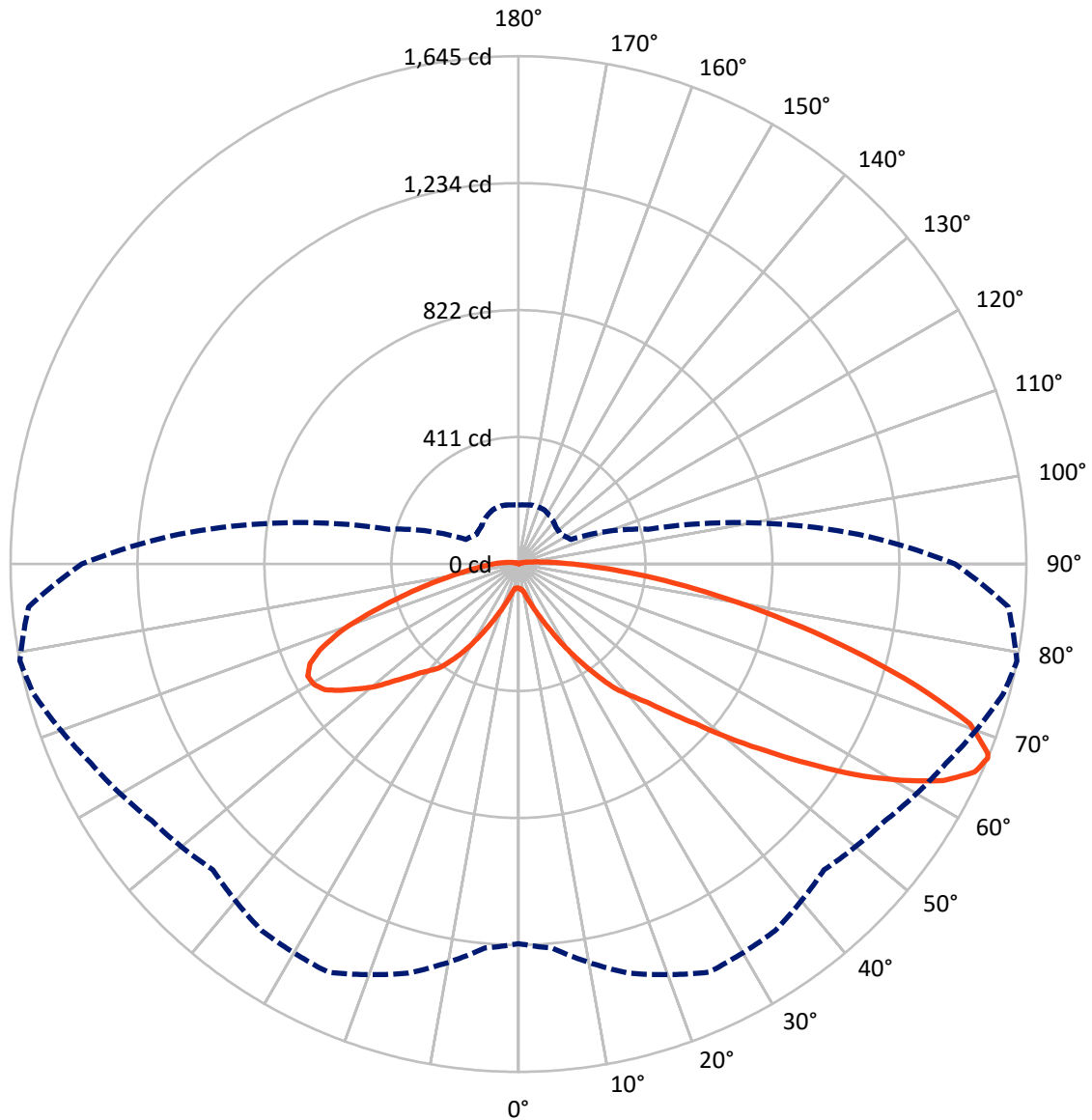
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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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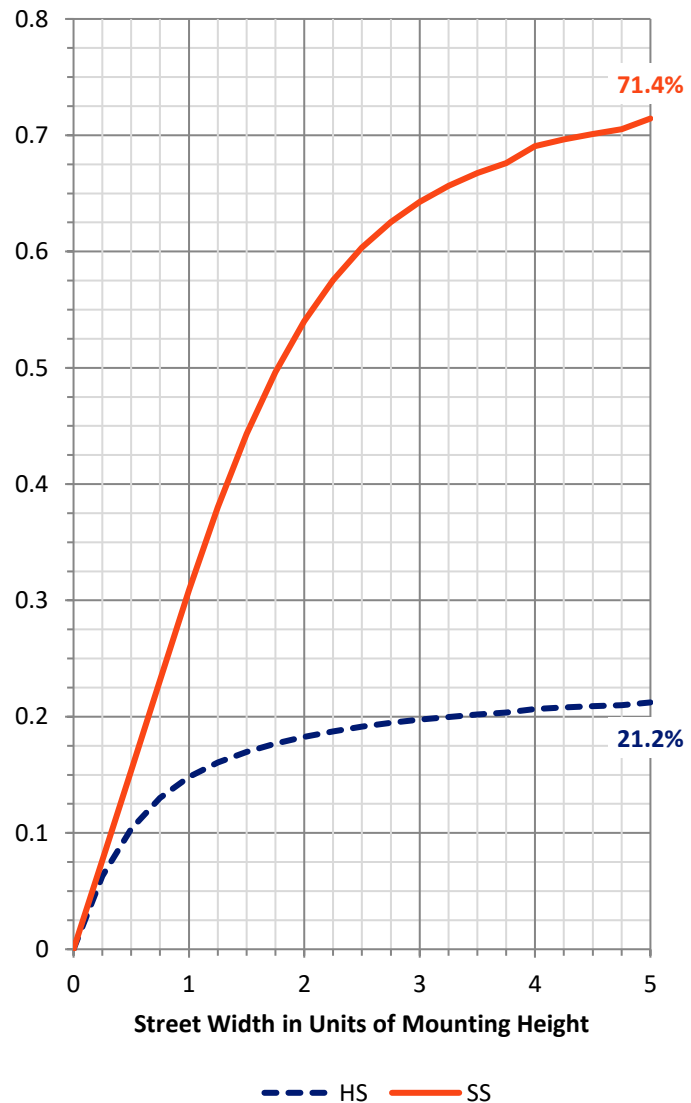
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	730.9	49.3	780.2
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	2428.9	68.4	2497.3
	% Fixture	74.1	2.1	76.2
Total	Lumens	3159.9	117.7	3277.5
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.2
10°-20°	33.7	1.0
20°-30°	97.1	3.0
30°-40°	220.3	6.7
40°-50°	382.8	11.7
50°-60°	613.3	18.7
60°-70°	854.6	26.1
70°-80°	675.1	20.6
80°-90°	274.9	8.4
90°-100°	78.4	2.4
100°-110°	23.3	0.7
110°-120°	9.0	0.3
120°-130°	4.4	0.1
130°-140°	2.0	0.1
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3159.9	96.4
0°-180°	3277.5	100.0



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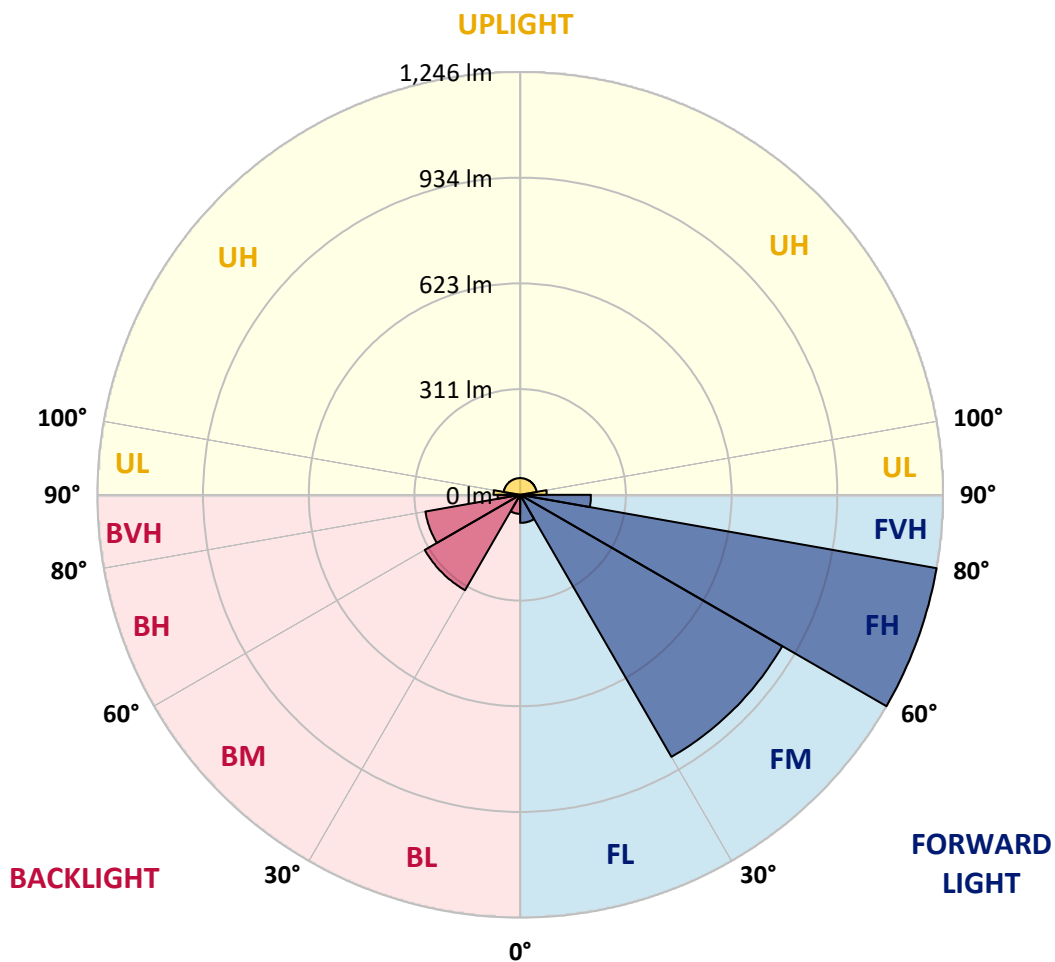
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.8	2.5			
FM	(30°-60°)	891.7	27.2			
FH	(60°-80°)	1245.9	38.0			G1/1800
FVH	(80°-90°)	208.6	6.4			G2/225
BL	(0°-30°)	56.0	1.7	B0/110		
BM	(30°-60°)	324.7	9.9	B1/1000		
BH	(60°-80°)	283.8	8.7	B1/500		G1/500
BVH	(80°-90°)	66.4	2.0			G1/100
UL	(90°-100°)	78.4	2.4		U3/500	
UH	(100°-180°)	49.3	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°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	84.0	84.0	84.4	84.4	84.4	83.6	82.4	81.2	80.4	80.0	79.3
5°	90.3	89.9	90.3	89.9	89.9	88.4	86.3	84.4	82.8	82.0	80.8
7.5°	99.4	99.4	99.0	98.2	97.5	94.7	91.6	89.1	86.7	85.2	84.0
10°	110.9	111.3	110.6	108.5	106.6	103.0	99.4	96.3	92.7	90.7	89.1
12.5°	128.8	128.8	127.2	122.9	118.0	113.8	109.8	106.6	105.0	103.0	101.4
15°	151.0	150.6	148.1	141.5	135.1	127.6	124.8	122.9	121.6	120.0	118.0
17.5°	177.1	176.7	172.4	163.3	153.3	147.8	143.4	141.5	142.2	140.7	139.0
20°	208.4	207.6	200.9	188.2	178.3	170.7	166.0	164.0	166.4	165.2	164.0
22.5°	248.4	246.4	236.9	218.7	207.2	194.9	190.6	189.8	195.3	195.3	195.3
25°	295.9	294.0	279.7	258.7	238.4	223.4	219.1	223.4	232.5	233.7	236.1
27.5°	351.0	348.6	331.2	301.9	275.0	254.7	251.1	259.9	274.2	279.7	282.0
30°	416.0	414.4	389.4	352.2	314.1	288.8	284.9	300.7	322.8	331.6	337.6
32.5°	492.9	490.8	454.8	410.8	357.7	326.0	322.8	347.1	380.3	388.6	400.5
35°	587.9	585.9	538.4	477.0	406.5	365.7	365.7	397.0	437.8	449.3	463.9
37.5°	683.4	683.0	635.0	553.1	460.3	409.3	410.0	446.1	495.2	513.0	526.5
40°	776.5	777.3	722.6	628.7	520.6	457.2	456.7	493.3	544.3	559.8	572.9
42.5°	861.3	860.9	809.4	709.1	583.2	509.1	502.0	537.6	591.9	612.8	630.3
45°	920.3	924.6	885.1	781.6	646.2	562.9	548.3	587.9	657.2	686.2	709.5
47.5°	993.6	994.0	957.6	849.8	710.7	618.8	605.4	655.3	743.2	773.4	797.9
50°	1074.4	1078.4	1049.4	935.4	783.7	681.8	676.7	739.7	844.2	886.6	917.2
52.5°	1143.4	1148.2	1130.3	1033.2	871.6	762.6	762.6	842.7	954.8	1005.5	1035.2
55°	1194.1	1202.0	1206.4	1127.1	971.0	857.3	866.0	955.9	1080.3	1141.0	1177.0
57.5°	1234.5	1245.5	1266.2	1210.7	1068.9	971.0	983.7	1079.9	1231.3	1288.0	1325.9
60°	1294.3	1307.0	1344.3	1300.3	1181.4	1093.4	1110.5	1215.5	1369.9	1421.1	1450.0
62.5°	1300.3	1315.7	1391.0	1397.4	1286.8	1213.1	1250.8	1353.8	1501.1	1545.5	1551.8
65°	1273.0	1293.1	1393.0	1450.7	1398.9	1325.2	1378.3	1472.9	1595.0	1624.3	1608.1
67°	1229.3	1248.7	1371.6	1458.7	1449.6	1400.1	1449.6	1527.7	1625.5	1644.9	1592.6
67.5°	1210.7	1229.3	1359.7	1457.1	1456.0	1413.2	1461.1	1539.5	1627.1	1640.2	1581.2
70°	1091.5	1117.2	1256.7	1406.5	1453.2	1425.1	1481.3	1535.6	1556.9	1552.2	1467.4
72.5°	881.9	906.0	1058.1	1267.7	1374.7	1360.4	1410.3	1420.3	1382.6	1350.2	1234.5
75°	646.9	657.7	797.9	1023.4	1198.8	1215.1	1252.7	1230.5	1161.6	1118.4	1000.8
77.5°	449.3	459.9	567.7	774.9	966.7	1027.2	1064.5	1032.1	959.5	893.3	765.0
80°	297.6	303.1	387.5	564.6	758.3	842.7	874.7	841.5	749.5	684.6	562.9
82.5°	181.5	192.1	253.2	395.8	586.4	690.2	713.5	675.0	575.6	508.3	405.7
85°	108.9	114.5	162.0	267.4	431.5	547.5	569.7	519.8	419.1	358.5	271.8
87.5°	67.3	69.8	101.8	173.1	302.7	408.9	432.6	373.6	282.8	238.9	181.9
90°	43.6	45.5	67.0	114.1	200.1	291.2	301.9	254.3	188.2	159.3	123.2
92.5°	29.4	30.9	45.5	75.7	131.6	191.0	198.9	168.0	124.4	106.2	84.0
95°	20.6	21.8	32.1	51.5	85.6	117.6	126.0	108.9	81.2	70.1	57.8
97.5°	15.9	16.7	24.1	37.2	57.8	76.1	79.3	70.9	55.0	48.3	42.0
100°	12.7	13.5	19.0	28.1	41.6	51.9	53.9	48.7	38.9	34.9	30.9
102.5°	11.0	11.0	15.4	22.2	31.3	38.5	38.9	34.9	28.5	25.8	23.7
105°	9.5	9.5	12.7	17.8	25.0	29.7	29.7	25.8	21.0	19.0	18.2
107.5°	7.9	8.3	10.7	14.2	19.8	23.7	23.0	19.0	15.0	13.9	13.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	6.8	7.2	9.1	11.9	16.3	19.4	18.2	14.6	11.0	10.3	10.3
112.5°	5.9	6.3	7.6	10.3	13.9	16.3	14.6	11.0	8.3	7.9	8.3
115°	5.5	5.5	6.8	9.1	11.9	13.5	12.3	9.1	6.8	6.3	6.8
117.5°	4.7	5.1	5.9	7.9	10.7	11.5	10.3	7.2	5.1	5.1	5.9
120°	4.7	4.7	5.5	7.2	9.5	10.3	8.7	5.9	4.4	4.4	5.1
122.5°	4.4	4.4	5.1	6.8	8.3	9.1	7.6	5.1	4.0	4.0	4.4
125°	4.4	4.4	5.1	6.3	7.6	7.6	6.3	4.4	3.6	3.6	4.0
127.5°	4.7	4.7	5.1	5.9	6.8	6.8	5.5	4.0	3.2	3.2	3.6
130°	4.7	4.7	4.7	5.5	5.9	5.5	4.7	3.6	3.2	3.2	3.6
132.5°	4.7	4.7	4.7	4.7	5.1	4.7	4.0	2.8	2.8	2.8	3.2
135°	4.4	4.4	4.0	4.4	4.4	3.6	2.8	1.9	2.4	2.4	2.8
137.5°	3.6	3.6	3.6	3.6	3.2	2.8	1.9	1.5	1.9	2.4	2.4
140°	3.2	3.2	2.8	2.8	2.4	1.9	1.2	1.5	1.9	1.9	1.9
142.5°	2.4	2.4	2.4	1.9	1.5	1.2	0.8	1.2	1.5	1.5	1.9
145°	1.5	1.5	1.5	1.2	0.8	0.4	0.8	0.8	1.2	1.5	1.5
147.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.8	1.2	1.2	1.2
150°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.8	1.2	1.2
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
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°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	78.9	78.5	77.2	76.4	75.7	75.3	74.9	74.9	74.5	74.1	74.1
5°	80.0	79.3	77.2	75.7	74.5	73.7	72.9	72.5	71.7	71.3	71.3
7.5°	82.4	81.2	78.9	76.1	74.1	72.9	72.1	71.3	70.5	70.5	70.5
10°	87.2	85.6	82.0	78.5	75.3	73.7	72.9	72.1	72.1	71.7	71.7
12.5°	99.0	96.7	90.7	84.4	78.9	76.4	75.7	77.6	80.0	80.4	81.6
15°	115.3	112.9	105.4	96.3	87.2	82.0	84.8	88.4	92.3	95.4	95.4
17.5°	135.5	132.7	122.4	109.8	98.6	95.4	96.3	101.4	107.0	109.8	110.2
20°	160.5	156.5	142.2	124.8	112.5	107.7	108.9	114.1	122.0	126.0	126.7
22.5°	191.7	185.8	166.7	142.2	127.2	120.8	122.0	128.4	139.0	144.6	146.6
25°	231.4	223.8	194.9	163.3	141.8	132.4	135.8	145.8	159.3	167.6	167.2
27.5°	276.9	265.0	229.0	185.1	156.5	143.4	148.9	162.9	179.1	188.5	189.8
30°	331.6	316.2	266.3	208.0	169.2	153.3	160.5	177.9	196.1	208.8	210.0
32.5°	392.2	374.0	304.2	231.0	179.4	160.8	168.8	190.6	211.5	226.6	227.0
35°	454.4	431.1	340.3	250.8	188.2	166.7	175.1	200.1	224.6	242.0	243.3
37.5°	513.8	486.5	373.6	263.8	193.7	169.9	178.7	208.0	235.7	254.3	255.5
40°	558.6	525.0	394.1	268.2	194.9	171.5	181.9	211.1	235.7	250.0	250.8
42.5°	614.9	570.5	409.3	263.8	191.7	171.5	183.0	207.2	226.2	235.7	235.7
45°	690.2	635.5	432.2	258.7	185.4	170.3	179.8	198.5	211.1	215.9	215.9
47.5°	780.1	708.8	455.6	255.1	180.7	167.6	175.1	187.8	194.6	194.9	194.2
50°	893.8	801.5	484.6	250.0	177.9	164.8	170.7	179.1	183.0	181.5	180.7
52.5°	1002.3	883.8	505.1	243.7	176.3	163.6	168.4	175.5	176.7	172.0	170.7
55°	1131.9	980.5	519.4	233.3	174.7	164.4	168.4	174.3	173.5	167.2	166.0
57.5°	1261.0	1071.2	532.0	224.2	173.1	165.6	169.9	175.1	173.5	167.6	166.4
60°	1360.1	1133.4	525.0	214.7	171.5	167.6	172.8	177.9	177.9	173.1	172.8
62.5°	1437.8	1170.7	507.9	204.8	170.3	169.2	176.3	183.8	185.4	181.9	181.5
65°	1455.1	1155.6	475.1	195.3	168.8	170.3	181.1	190.6	191.7	188.2	187.8
67°	1414.3	1104.2	434.7	187.4	166.4	170.7	184.2	194.6	196.1	192.5	191.4
67.5°	1396.5	1083.9	424.3	185.4	165.6	170.7	184.6	194.9	196.9	193.3	192.1
70°	1259.9	963.9	369.3	174.3	160.5	168.8	185.4	197.7	198.9	194.6	192.9
72.5°	1043.9	777.3	305.5	163.6	154.2	163.6	182.6	195.7	195.3	188.9	187.8
75°	827.6	609.3	246.0	151.3	145.4	155.7	175.1	186.6	184.2	176.7	175.1
77.5°	628.7	455.6	200.1	139.0	135.5	145.4	162.4	170.7	166.0	158.9	157.3
80°	448.1	328.1	162.9	127.6	124.8	133.5	146.6	151.0	147.8	141.1	139.0
82.5°	313.3	235.7	135.5	116.1	114.5	121.2	129.5	133.9	132.4	126.3	124.8
85°	216.7	164.8	114.1	104.5	103.8	108.5	113.8	116.5	117.6	114.5	112.5
87.5°	145.8	121.2	97.1	92.0	92.3	95.9	99.4	102.2	105.8	105.4	103.4
90°	104.2	90.7	81.2	78.9	79.6	83.6	85.2	86.7	91.1	91.1	89.9
92.5°	74.5	68.9	65.8	65.0	66.6	69.8	70.5	70.9	74.1	74.5	72.1
95°	53.1	50.3	51.5	52.3	53.9	56.7	56.3	55.0	56.7	56.7	54.6
97.5°	39.2	38.5	40.8	41.6	42.8	45.2	44.0	42.0	43.2	41.6	40.4
100°	30.1	30.1	32.8	33.2	34.1	35.3	34.9	33.2	33.7	31.7	30.9
102.5°	23.7	24.1	26.2	26.5	27.3	28.5	27.7	26.9	26.2	23.7	23.7
105°	18.6	19.0	20.6	21.0	21.8	23.0	22.6	21.4	20.3	18.2	18.2
107.5°	14.2	15.0	16.3	16.7	17.4	18.6	18.2	16.7	15.0	13.9	13.9



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	11.0	11.9	13.1	13.5	13.9	15.0	14.2	12.7	11.5	10.7	10.7
112.5°	9.1	9.5	10.7	11.0	11.5	12.3	11.5	9.9	8.7	8.3	8.3
115°	7.6	7.9	8.7	9.1	9.9	9.9	9.1	7.6	6.8	6.8	6.8
117.5°	6.3	6.8	7.6	7.9	7.9	8.3	7.2	5.9	5.1	5.5	5.5
120°	5.5	5.5	6.3	6.3	6.8	6.8	5.9	4.7	4.0	4.4	4.7
122.5°	4.7	4.7	5.1	5.5	5.5	5.5	4.7	4.0	3.2	3.6	4.0
125°	4.0	4.4	4.4	4.7	4.7	4.7	4.0	3.2	2.8	3.2	3.2
127.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.2	2.4	2.4	2.8	2.8
130°	3.6	3.6	3.6	3.6	3.2	2.8	2.4	1.5	1.9	2.4	2.4
132.5°	3.2	3.2	3.2	2.8	2.4	1.9	1.5	1.2	1.2	1.9	1.9
135°	2.8	2.8	2.4	1.9	1.5	1.2	0.8	0.8	0.8	1.5	1.5
137.5°	2.4	2.4	1.9	1.5	1.2	0.8	0.4	0.0	0.4	0.8	0.8
140°	2.4	2.4	1.9	1.2	0.8	0.4	0.0	0.0	0.0	0.4	0.4
142.5°	1.9	1.9	1.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.5	1.5	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.2	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.2	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	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)