

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: P254302

Luminaire Tested: **LXF.LXT-AF24-30-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254302
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-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 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: 3111.7 lumens
Efficiency: N/A
Efficacy: 100.4 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

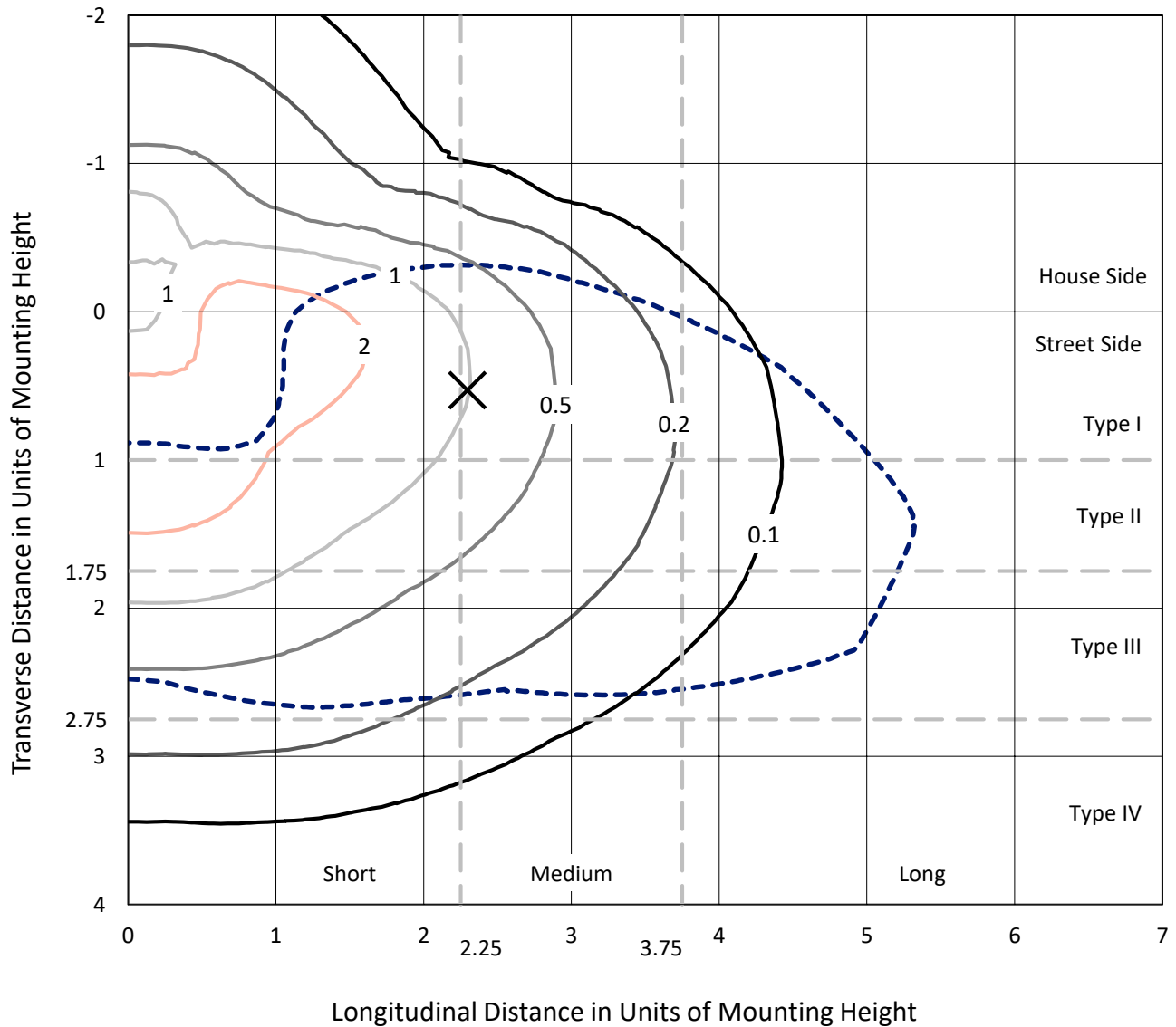
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

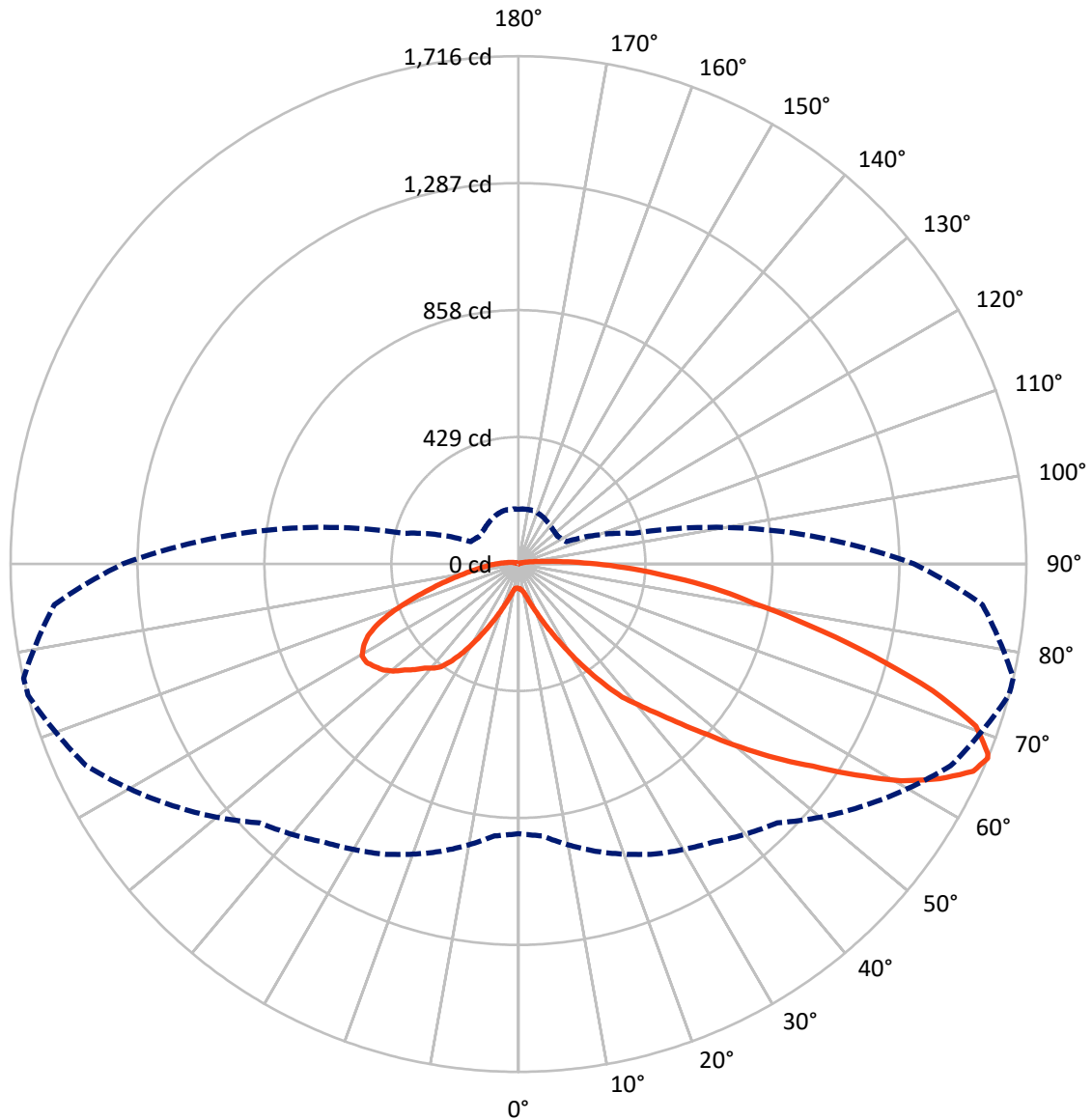
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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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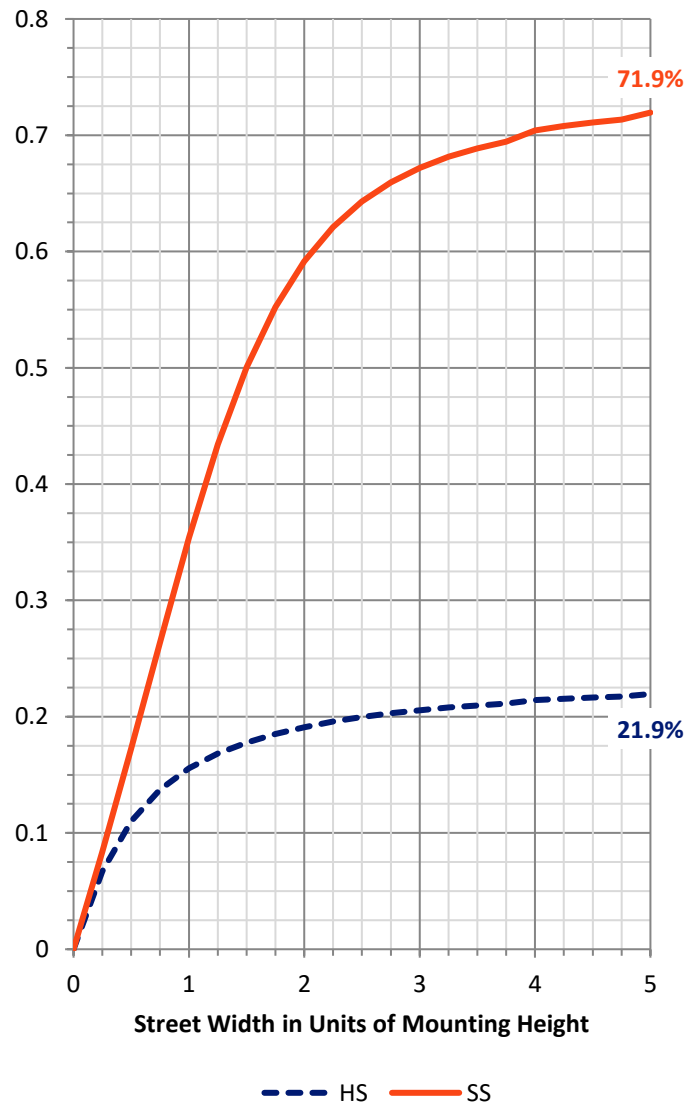
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.5	45.4	758.8
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	2293.8	59.1	2352.9
	% Fixture	73.7	1.9	75.6
Total	Lumens	3007.3	104.4	3111.7
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.3
10°-20°	35.0	1.1
20°-30°	102.2	3.3
30°-40°	237.4	7.6
40°-50°	416.5	13.4
50°-60°	640.1	20.6
60°-70°	791.5	25.4
70°-80°	552.6	17.8
80°-90°	223.6	7.2
90°-100°	66.1	2.1
100°-110°	21.3	0.7
110°-120°	9.1	0.3
120°-130°	4.7	0.2
130°-140°	2.4	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3007.3	96.6
0°-180°	3111.7	100.0



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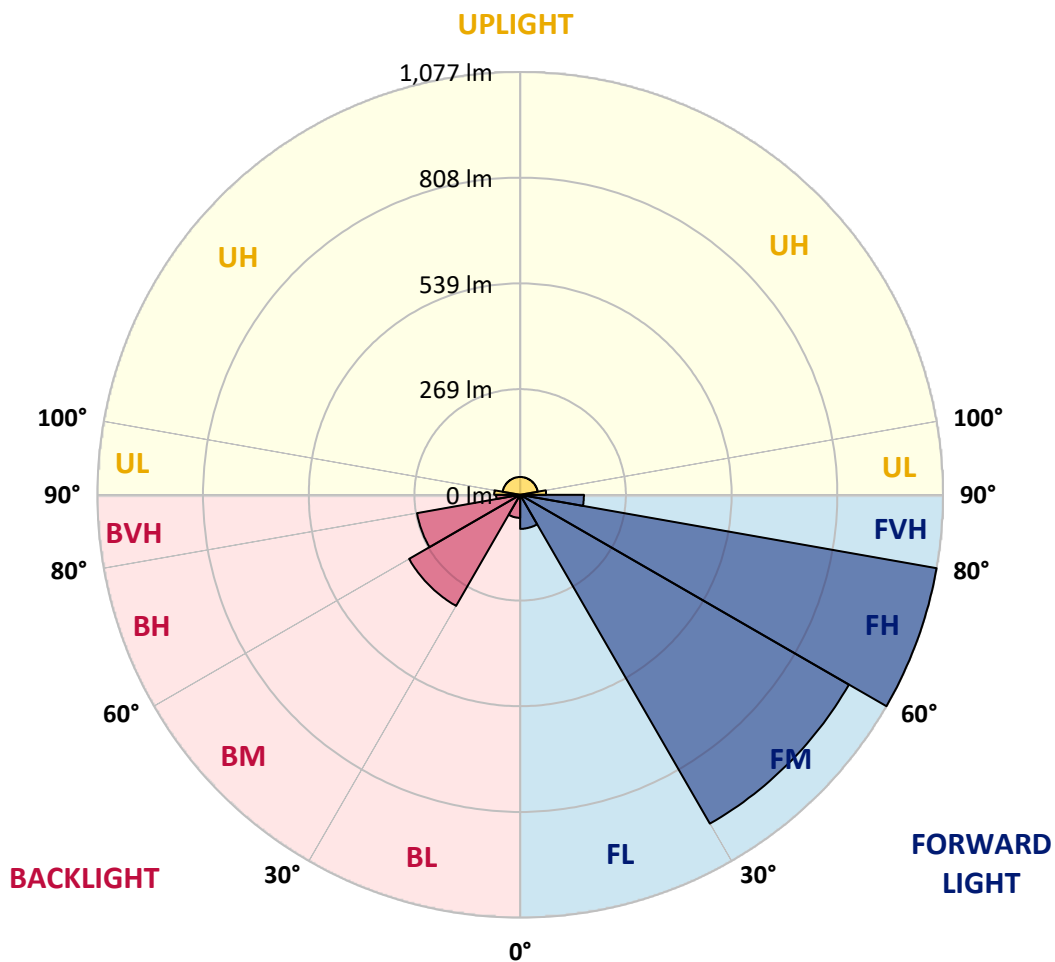
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.8	2.8			
FM	(30°-60°)	967.3	31.1			
FH	(60°-80°)	1077.3	34.6			G1/1800
FVH	(80°-90°)	162.5	5.2			G2/225
BL	(0°-30°)	58.7	1.9	B0/110		
BM	(30°-60°)	326.8	10.5	B1/1000		
BH	(60°-80°)	266.8	8.6	B1/500		G1/500
BVH	(80°-90°)	61.2	2.0			G1/100
UL	(90°-100°)	66.1	2.1		U3/500	
UH	(100°-180°)	45.4	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°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	88.1	88.4	88.4	88.4	88.1	87.3	86.1	85.4	84.2	83.9	83.1
5°	94.7	94.7	94.7	94.4	93.6	92.1	90.6	88.7	86.6	86.1	84.6
7.5°	102.2	102.6	102.2	101.5	99.7	98.2	95.9	93.3	90.6	89.9	88.1
10°	113.1	113.1	112.3	110.9	108.2	105.2	102.6	99.7	97.0	96.2	94.0
12.5°	129.6	129.6	128.1	124.0	119.8	115.7	112.7	110.5	109.0	107.8	106.4
15°	150.6	151.0	148.7	142.4	137.1	130.7	128.1	127.8	127.4	126.2	124.8
17.5°	176.0	176.0	172.3	163.7	156.9	151.0	148.4	148.4	148.4	148.4	147.6
20°	206.4	206.7	201.9	189.6	182.5	175.3	172.6	173.0	174.6	175.0	175.0
22.5°	245.3	246.8	239.4	222.5	213.8	203.4	201.5	203.4	207.5	208.5	210.6
25°	298.5	296.3	286.6	264.4	251.8	239.0	236.0	241.3	249.1	251.3	255.4
27.5°	354.3	354.6	340.9	313.9	292.5	277.2	275.7	286.2	297.4	300.4	307.1
30°	425.4	426.2	405.3	371.9	340.2	320.6	320.6	337.8	355.1	359.9	370.8
32.5°	510.9	510.1	479.1	439.0	394.8	370.8	371.6	396.6	421.4	426.9	437.1
35°	610.2	609.0	567.8	515.0	456.2	425.1	428.6	460.3	492.2	497.4	513.5
37.5°	711.8	712.8	667.1	600.1	524.0	483.2	489.6	527.4	566.3	570.2	582.8
40°	803.4	809.1	762.9	688.2	597.4	544.2	551.8	588.1	626.3	627.8	632.6
42.5°	891.4	892.2	853.7	773.9	673.5	611.7	612.4	647.3	683.5	690.0	692.1
45°	947.6	955.5	924.5	852.6	750.3	680.5	674.2	709.1	762.6	770.1	770.1
47.5°	1011.7	1019.9	984.3	923.2	824.4	749.8	744.6	789.2	853.2	861.1	858.1
50°	1083.7	1093.6	1067.9	1001.6	898.2	823.7	832.7	884.7	962.2	973.5	970.1
52.5°	1138.3	1149.2	1133.4	1086.6	980.9	909.8	919.5	992.2	1078.0	1089.2	1076.5
55°	1158.4	1173.5	1178.4	1154.5	1066.4	1001.3	1031.2	1109.8	1194.1	1206.1	1192.6
57.5°	1157.8	1173.1	1191.8	1188.5	1137.9	1095.3	1139.0	1230.8	1332.6	1344.7	1330.8
60°	1149.5	1167.6	1202.0	1206.4	1178.1	1178.1	1248.9	1375.0	1476.8	1487.8	1448.0
62.5°	1078.0	1100.5	1163.4	1208.7	1200.1	1231.2	1349.2	1494.4	1593.0	1598.3	1523.7
65°	988.5	1009.4	1078.7	1152.1	1193.0	1249.9	1414.7	1579.6	1682.5	1688.5	1581.4
67°	910.9	922.1	1004.9	1081.7	1146.9	1237.2	1424.8	1612.1	1715.2	1716.3	1574.3
67.5°	883.3	894.9	979.1	1061.1	1130.9	1228.2	1419.6	1615.1	1713.1	1711.0	1560.8
70°	737.9	744.6	832.7	938.3	1016.5	1131.2	1354.4	1557.1	1647.3	1640.5	1468.7
72.5°	545.3	551.0	642.3	770.9	863.3	989.6	1213.3	1433.5	1483.6	1465.2	1264.5
75°	377.9	382.4	453.7	563.3	684.7	818.1	1037.2	1220.0	1257.0	1234.2	1048.1
77.5°	249.8	253.2	308.6	395.2	506.8	654.0	843.9	1007.9	1037.9	1011.3	841.7
80°	158.4	161.0	202.2	270.4	371.6	513.2	677.6	819.9	832.7	807.5	657.7
82.5°	100.4	103.0	130.7	183.1	266.7	390.7	532.9	660.7	678.0	662.9	514.3
85°	64.5	68.2	88.1	125.4	189.1	286.6	415.4	525.5	523.7	498.9	377.6
87.5°	45.7	48.7	63.7	89.5	133.3	203.0	303.7	381.4	376.8	360.3	262.6
90°	34.1	36.4	47.2	65.2	95.9	142.4	210.6	264.1	251.0	240.8	173.4
92.5°	25.1	27.0	35.2	47.5	68.5	99.7	139.0	170.8	157.4	150.2	109.7
95°	18.3	19.4	25.9	34.9	49.8	69.3	91.0	107.5	96.5	91.8	69.3
97.5°	14.2	15.0	19.8	27.0	37.0	49.8	61.4	67.4	61.4	58.5	48.0
100°	12.0	12.3	16.5	21.3	29.2	37.8	43.8	46.1	42.3	40.4	34.9
102.5°	10.2	10.5	13.4	17.6	23.6	29.9	33.0	33.8	30.4	29.2	26.2
105°	8.6	9.0	11.6	15.0	19.8	24.4	25.9	25.1	22.1	21.3	19.8
107.5°	7.5	7.8	9.8	12.8	16.5	20.2	20.6	19.1	16.5	15.8	15.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	6.8	6.8	8.6	10.8	14.2	16.8	16.8	14.6	12.3	12.0	12.0
112.5°	6.0	6.0	7.5	9.4	12.3	14.2	13.8	11.6	9.4	9.0	9.4
115°	5.3	5.3	6.3	8.6	10.8	12.3	11.6	9.4	7.1	7.1	7.8
117.5°	4.9	4.9	6.0	7.8	9.8	10.8	9.8	7.5	6.0	6.0	6.3
120°	4.5	4.5	5.6	7.1	9.0	9.8	8.6	6.3	4.9	4.9	5.6
122.5°	4.5	4.5	5.3	6.8	8.2	8.6	7.5	5.6	4.2	4.5	4.9
125°	4.5	4.9	5.3	6.3	7.5	7.5	6.3	4.9	3.8	3.8	4.5
127.5°	4.9	4.9	5.3	6.0	6.8	6.8	5.6	4.2	3.8	3.8	4.2
130°	5.3	5.3	5.3	5.6	6.0	5.6	4.9	3.8	3.4	3.4	3.8
132.5°	5.3	5.3	5.3	5.3	5.3	4.9	4.2	3.4	2.9	3.4	3.8
135°	4.9	4.9	4.9	4.9	4.5	4.2	3.4	2.6	2.6	2.6	2.9
137.5°	4.5	4.2	4.2	4.2	3.8	3.4	2.6	1.8	2.3	2.3	2.6
140°	3.8	3.8	3.8	3.4	2.9	2.6	1.8	1.5	1.8	1.8	2.3
142.5°	2.9	2.9	2.9	2.6	2.3	1.8	1.1	1.1	1.5	1.8	1.8
145°	2.3	2.3	2.3	1.8	1.5	1.1	0.8	1.1	1.5	1.5	1.5
147.5°	1.5	1.5	1.5	1.5	0.8	0.3	0.8	0.8	1.1	1.1	1.5
150°	0.8	0.8	1.1	0.8	0.3	0.3	0.3	0.8	0.8	1.1	1.1
152.5°	0.3	0.3	0.8	0.3	0.0	0.0	0.0	0.3	0.8	0.8	0.8
155°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.8
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°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	82.8	82.4	81.6	80.6	79.8	79.4	79.4	78.6	78.6	78.6	78.2
5°	84.2	83.1	81.6	80.2	78.6	77.6	77.1	76.4	75.6	75.6	75.3
7.5°	86.6	85.4	82.8	80.6	78.2	76.8	76.1	75.3	74.6	74.2	73.8
10°	92.6	91.0	86.9	83.1	80.2	77.9	76.8	76.1	75.3	75.3	75.0
12.5°	104.9	102.2	97.0	90.6	84.2	80.9	79.8	82.4	83.5	84.6	84.6
15°	123.3	120.6	112.7	103.4	94.0	87.6	89.5	93.3	96.2	98.2	98.2
17.5°	145.8	141.6	131.8	118.3	106.0	101.5	100.7	104.9	109.4	112.0	112.0
20°	172.3	167.3	153.9	135.6	121.8	114.9	113.5	117.2	122.5	126.6	126.6
22.5°	206.7	201.1	181.3	155.4	137.4	128.1	126.2	130.0	137.4	143.1	142.7
25°	251.8	242.7	215.3	179.4	153.2	140.1	138.5	144.5	154.7	162.6	163.7
27.5°	303.7	291.0	250.2	205.3	168.6	150.6	151.0	159.2	171.5	180.2	180.2
30°	362.5	349.1	292.2	230.7	181.7	159.5	161.0	172.0	184.3	193.0	193.0
32.5°	430.7	411.0	336.4	255.7	193.3	166.3	167.8	181.0	193.3	202.6	203.0
35°	499.7	472.6	376.4	276.4	203.0	172.0	172.6	188.0	201.5	212.0	213.2
37.5°	562.5	527.7	412.0	290.6	207.5	174.6	175.7	193.3	209.0	218.7	218.7
40°	607.6	563.7	429.3	294.0	208.5	175.3	178.6	196.6	208.5	213.2	211.2
42.5°	658.5	604.5	440.1	288.5	204.6	175.0	180.2	194.4	200.8	201.1	199.3
45°	729.7	659.6	460.0	283.5	197.0	174.2	178.3	188.8	190.6	187.3	185.0
47.5°	812.1	719.6	476.5	277.5	192.2	172.3	175.7	182.0	180.5	174.6	172.6
50°	904.8	795.5	497.0	270.1	188.4	170.0	173.0	177.2	175.3	169.0	167.3
52.5°	996.0	862.3	510.1	262.2	185.0	169.0	171.2	176.0	173.8	166.3	164.1
55°	1091.5	930.1	513.2	248.7	182.5	169.0	171.5	176.8	174.2	166.3	164.1
57.5°	1203.8	1003.1	513.2	232.9	178.3	169.7	172.6	177.9	175.7	167.8	166.0
60°	1295.3	1055.1	502.3	219.1	173.4	169.7	173.0	178.6	178.3	172.6	171.5
62.5°	1345.7	1074.2	472.6	203.8	169.4	168.6	173.4	180.5	183.1	179.0	177.9
65°	1372.8	1067.9	438.2	188.4	165.5	166.3	173.4	181.7	185.7	183.5	182.0
67°	1337.6	1022.8	400.4	177.9	161.8	164.4	172.6	181.7	187.3	186.5	185.0
67.5°	1320.0	1004.9	389.5	176.0	160.7	164.1	172.3	181.7	187.3	187.3	185.7
70°	1210.1	903.8	333.0	162.1	153.6	158.4	168.2	179.8	186.2	186.5	185.7
72.5°	1022.8	743.2	274.9	149.0	144.5	150.2	162.1	174.2	180.2	179.4	178.6
75°	833.4	599.3	224.0	136.3	134.1	140.5	151.4	162.6	166.7	164.8	164.1
77.5°	659.9	467.4	183.5	124.0	123.6	129.3	137.8	146.1	148.4	145.0	144.5
80°	507.2	357.3	150.2	113.8	112.7	116.9	122.8	128.5	130.0	126.6	125.8
82.5°	388.4	270.9	124.8	102.6	102.2	104.5	108.6	112.3	114.9	111.7	110.5
85°	280.9	198.2	104.9	90.6	91.0	92.1	94.7	97.4	101.2	100.0	98.6
87.5°	195.9	143.7	89.1	79.4	79.4	80.2	81.6	84.2	89.1	88.7	87.3
90°	133.3	103.8	75.0	69.3	68.2	68.5	69.7	71.1	75.6	75.3	74.2
92.5°	89.1	73.8	60.6	57.4	57.0	57.4	57.4	58.5	60.6	59.5	58.5
95°	59.5	53.2	48.3	46.4	45.7	46.1	46.1	45.4	46.9	44.9	43.8
97.5°	42.7	40.1	39.0	37.4	36.4	36.7	36.7	35.9	36.4	33.8	33.0
100°	32.6	31.8	31.8	30.4	29.2	29.6	29.6	29.2	28.9	25.9	25.4
102.5°	25.9	25.4	25.9	24.7	23.6	24.4	23.9	23.6	22.8	20.2	19.8
105°	20.2	20.2	21.3	20.2	19.4	19.8	19.8	19.1	18.3	16.1	16.1
107.5°	15.8	16.1	17.3	16.5	16.1	16.5	16.1	15.4	14.2	12.8	12.8



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CATALOG NUMBER: LXF.LXT-AF24-30-D-U-T3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	12.3	13.1	14.2	13.8	13.4	13.8	13.1	12.3	11.3	10.5	10.5
112.5°	10.2	10.5	11.6	11.6	11.3	11.6	10.8	9.8	9.0	8.6	8.6
115°	8.2	9.0	9.8	9.8	9.8	9.8	9.0	7.8	7.1	7.1	7.1
117.5°	7.1	7.5	8.2	8.2	8.2	8.2	7.5	6.3	5.6	6.0	6.0
120°	6.0	6.3	7.1	7.1	7.1	7.1	6.3	5.3	4.5	4.9	4.9
122.5°	5.3	5.6	6.0	6.3	6.3	6.0	5.3	4.5	3.8	4.2	4.2
125°	4.9	5.3	5.3	5.6	5.3	5.3	4.5	3.8	3.4	3.8	3.8
127.5°	4.5	4.9	4.9	4.9	4.9	4.2	3.8	2.9	2.6	2.9	3.4
130°	4.2	4.5	4.5	4.2	3.8	3.4	2.9	2.6	2.3	2.6	2.9
132.5°	4.2	4.2	4.2	3.8	3.4	2.6	2.3	1.8	1.8	2.3	2.6
135°	3.4	3.4	3.4	2.9	2.3	1.8	1.5	1.5	1.5	1.8	1.8
137.5°	2.6	2.9	2.6	2.3	1.8	1.5	1.1	1.1	1.1	1.5	1.5
140°	2.3	2.3	2.3	1.8	1.5	0.8	0.3	0.3	0.8	0.8	1.1
142.5°	1.8	2.3	1.8	1.5	1.1	0.3	0.0	0.3	0.3	0.3	0.3
145°	1.8	1.8	1.5	1.1	0.8	0.3	0.0	0.0	0.3	0.0	0.0
147.5°	1.5	1.5	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	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)