

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: P255014

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T2U-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-40-D-U-T2U-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4250.3 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

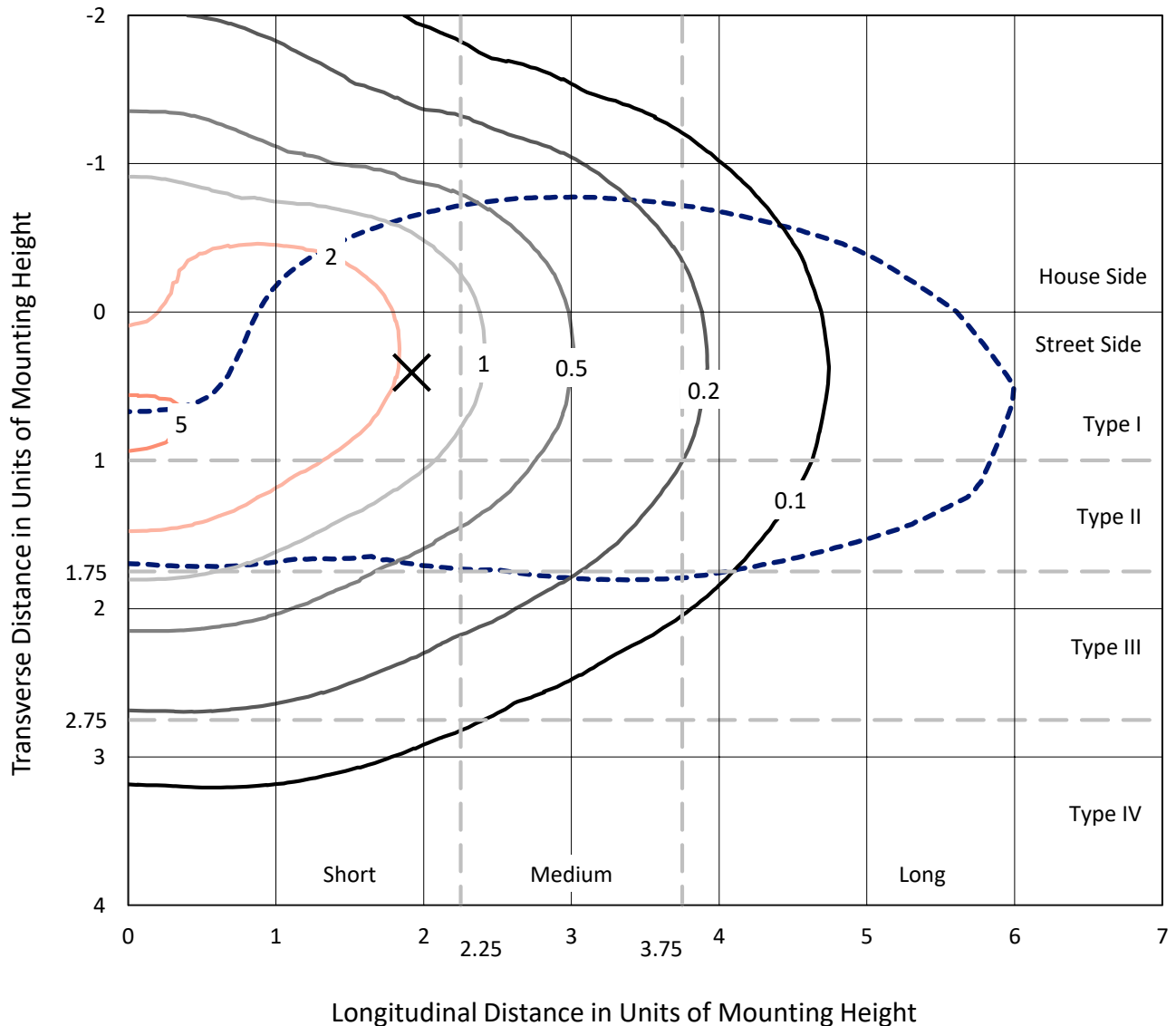
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

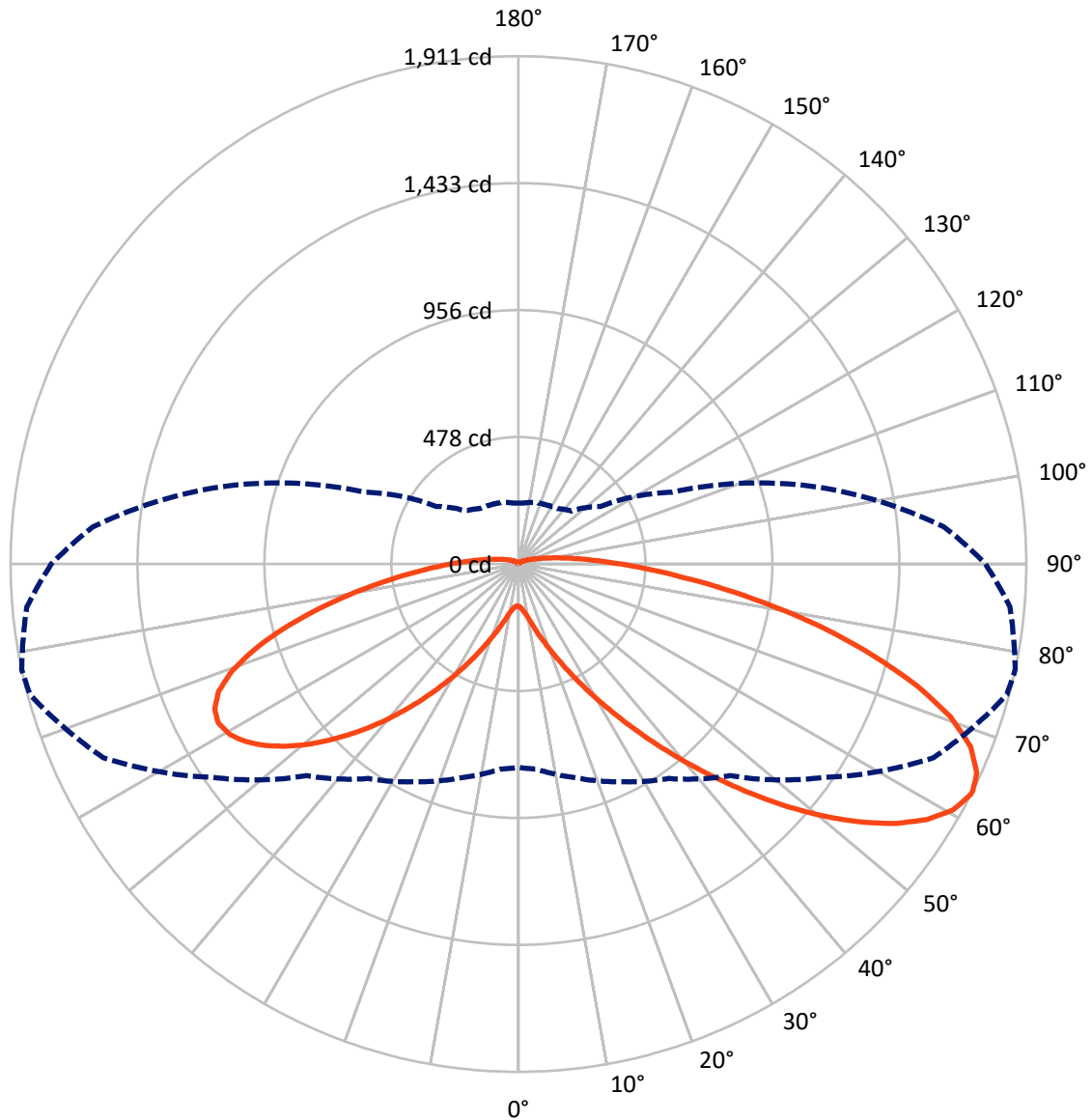
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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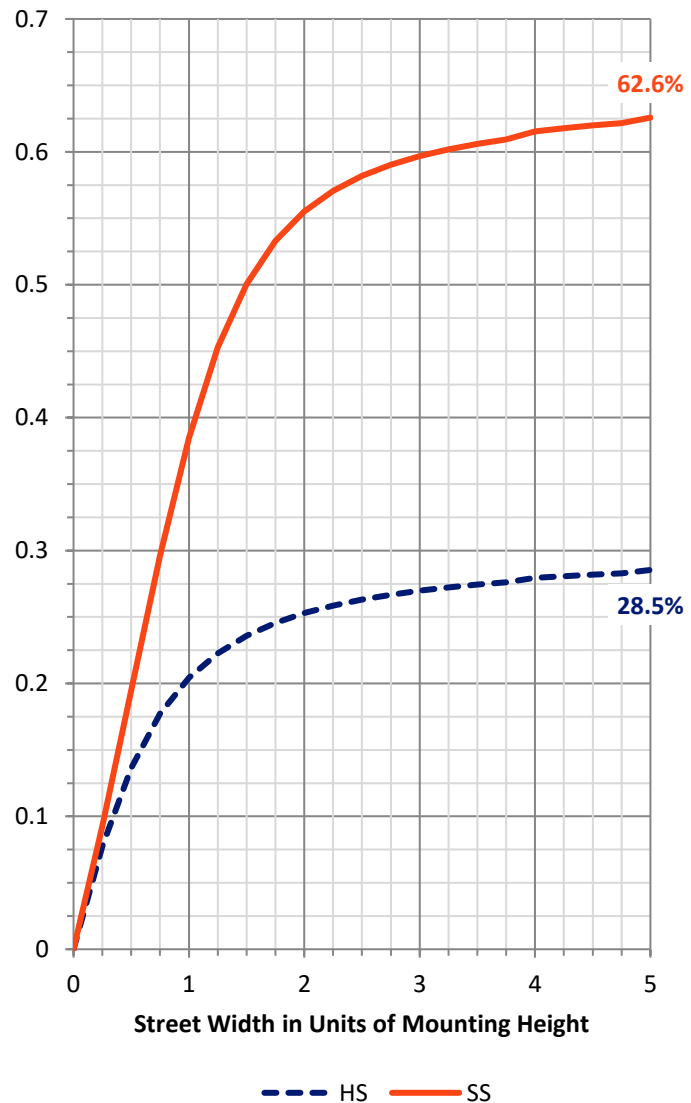
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.6	115.4	1378.0
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	2729.4	142.9	2872.3
	% Fixture	64.2	3.4	67.6
Total	Lumens	3992.0	258.3	4250.3
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	0.4
10°-20°	72.4	1.7
20°-30°	189.4	4.5
30°-40°	393.1	9.2
40°-50°	662.2	15.6
50°-60°	870.4	20.5
60°-70°	861.8	20.3
70°-80°	613.5	14.4
80°-90°	312.3	7.3
90°-100°	135.9	3.2
100°-110°	62.2	1.5
110°-120°	31.6	0.7
120°-130°	16.8	0.4
130°-140°	8.4	0.2
140°-150°	3.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3992.0	93.9
0°-180°	4250.3	100.0



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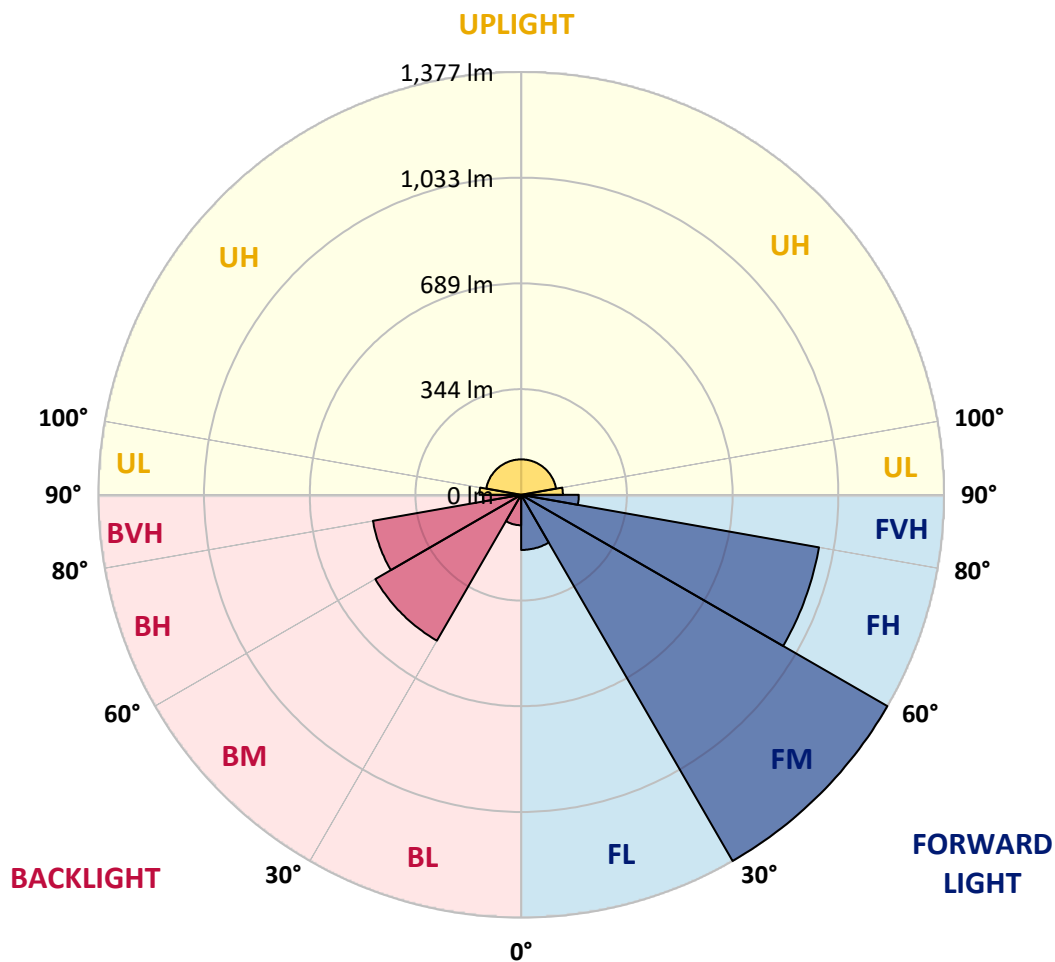
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.6	4.2			
FM	(30°-60°)	1377.2	32.4			
FH	(60°-80°)	985.0	23.2			G1/1800
FVH	(80°-90°)	187.5	4.4			G2/225
BL	(0°-30°)	99.1	2.3	B0/110		
BM	(30°-60°)	548.5	12.9	B1/1000		
BH	(60°-80°)	490.3	11.5	B1/500		G1/500
BVH	(80°-90°)	124.7	2.9			G2/225
UL	(90°-100°)	135.9	3.2		U3/500	
UH	(100°-180°)	115.4	2.7		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	176.5	177.1	177.1	175.9	174.9	172.9	170.8	168.3	164.7	164.2	161.6
5°	197.5	198.0	197.5	195.5	193.4	189.9	185.8	181.2	174.9	174.4	169.8
7.5°	223.2	223.7	223.2	219.6	216.0	210.9	205.2	198.6	189.9	188.3	182.2
10°	255.0	256.0	254.5	251.4	245.3	237.5	230.4	220.7	211.4	207.8	200.1
12.5°	295.5	295.5	292.5	287.9	280.2	270.4	261.2	249.4	239.1	233.9	225.8
15°	340.7	341.3	337.1	331.4	323.3	308.4	298.1	285.8	272.9	268.3	256.6
17.5°	392.5	393.5	388.4	380.2	368.9	354.0	341.3	326.8	312.0	304.2	292.0
20°	453.1	453.1	447.4	436.7	422.3	405.9	389.4	373.1	356.6	347.4	334.5
22.5°	521.8	521.8	515.2	500.8	480.3	462.3	444.4	425.9	408.0	398.1	381.8
25°	601.4	604.5	591.6	573.7	550.6	525.4	507.5	485.9	466.5	455.6	437.7
27.5°	691.2	692.7	676.8	650.1	620.3	594.1	574.2	554.6	533.2	521.8	500.3
30°	787.7	784.5	770.2	738.4	699.4	667.6	647.5	629.6	605.0	596.3	572.6
32.5°	891.3	889.3	870.7	827.2	785.0	746.5	725.1	713.7	689.1	679.3	654.2
35°	1000.5	997.0	974.9	929.2	873.8	831.8	812.2	806.6	784.0	774.3	744.0
37.5°	1115.0	1106.7	1079.1	1021.1	963.6	919.0	910.2	902.0	887.2	876.9	841.0
40°	1206.4	1202.7	1175.1	1114.5	1052.4	1015.0	1009.2	1015.0	1000.5	988.8	947.2
42.5°	1280.2	1277.7	1255.6	1196.0	1133.9	1099.6	1105.7	1124.2	1119.6	1107.8	1061.6
45°	1331.5	1328.9	1313.1	1261.7	1204.7	1179.7	1207.4	1241.2	1244.3	1234.5	1180.2
47.5°	1349.5	1347.9	1339.2	1301.8	1258.1	1252.0	1306.9	1360.2	1373.1	1364.8	1303.3
50°	1326.4	1327.4	1330.4	1313.6	1286.9	1304.4	1385.4	1473.7	1501.4	1492.1	1426.4
52.5°	1266.8	1270.5	1285.3	1291.0	1286.9	1331.5	1451.1	1576.3	1623.5	1613.2	1545.5
55°	1175.6	1180.7	1206.9	1236.0	1257.1	1329.4	1492.1	1663.0	1730.7	1723.6	1653.2
57.5°	1055.5	1065.7	1101.1	1153.0	1195.5	1297.6	1503.9	1722.5	1818.5	1813.3	1745.1
60°	922.6	931.3	980.1	1047.8	1109.4	1235.5	1478.3	1748.1	1877.9	1879.6	1814.8
62.5°	790.7	800.5	857.9	928.2	1006.7	1146.3	1417.2	1732.8	1902.6	1910.3	1854.4
63°	765.1	774.8	832.3	904.1	985.2	1126.3	1400.8	1724.1	1902.6	1911.3	1857.0
65°	665.5	674.7	731.7	806.6	892.3	1039.0	1321.2	1672.7	1882.1	1895.4	1852.9
67.5°	549.5	559.2	616.7	690.6	773.2	916.0	1196.0	1567.1	1811.7	1835.9	1808.7
70°	451.5	461.8	514.1	583.9	660.9	790.7	1052.9	1424.9	1698.9	1725.1	1714.8
72.5°	372.0	380.7	432.0	490.5	559.2	674.7	906.1	1253.5	1537.3	1569.1	1575.2
75°	303.7	313.0	358.1	410.5	471.1	568.0	764.0	1072.4	1337.2	1381.3	1398.8
77.5°	247.9	256.6	296.6	342.3	393.5	473.1	633.2	892.8	1131.9	1185.3	1207.9
80°	202.1	210.4	243.3	284.8	328.4	392.5	518.7	719.3	928.7	976.9	1000.5
82.5°	164.2	171.3	200.1	236.5	273.5	325.3	423.3	575.7	741.9	782.5	795.3
85°	132.4	138.5	164.2	196.0	227.3	267.3	342.3	455.1	580.3	612.1	628.1
87.5°	105.7	110.8	133.9	161.6	188.3	224.7	277.1	362.7	449.0	472.6	482.8
90°	85.7	89.8	108.7	132.4	156.5	183.2	224.7	282.2	345.3	362.2	369.4
92.5°	69.8	72.8	89.8	109.3	130.8	155.0	183.2	223.2	265.8	277.1	281.7
95°	58.5	59.5	74.4	91.3	108.7	129.3	149.9	177.6	205.2	213.0	215.0
97.5°	47.7	49.3	62.1	77.4	92.4	107.7	122.7	142.1	159.6	164.2	164.7
100°	41.0	41.5	52.4	66.2	79.0	91.3	102.1	114.0	124.2	125.7	126.7
102.5°	34.9	35.4	44.6	57.5	68.2	78.5	86.7	93.4	97.5	98.0	98.0
105°	30.3	30.8	38.5	49.8	59.5	67.2	73.9	76.4	77.4	76.9	76.9
107.5°	27.2	27.2	33.9	43.6	52.4	59.0	63.1	63.6	62.1	61.1	61.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	24.1	24.7	29.8	39.0	46.6	51.9	54.9	53.4	50.3	49.3	49.3
112.5°	22.1	22.6	26.2	34.4	41.0	46.1	47.7	45.1	41.0	40.0	40.5
115°	20.6	20.6	23.6	30.3	36.9	41.0	41.5	38.5	33.9	33.3	33.9
117.5°	19.0	19.0	21.1	27.2	32.8	36.4	36.4	32.8	28.7	27.7	28.2
120°	18.0	18.0	19.5	24.1	29.3	32.3	31.8	28.2	24.1	24.1	24.7
122.5°	17.0	17.0	18.0	21.6	26.2	28.7	28.2	24.1	20.6	20.6	21.1
125°	15.9	15.9	16.5	19.5	23.1	25.2	24.7	20.6	18.0	18.0	18.5
127.5°	14.8	14.8	15.3	17.5	20.6	22.1	21.1	17.5	15.9	15.9	16.5
130°	14.3	14.3	14.3	15.3	18.0	19.5	18.0	14.8	13.8	13.8	14.3
132.5°	13.3	13.3	13.3	13.8	15.3	16.5	15.3	12.8	12.3	12.3	12.8
135°	12.8	12.8	12.3	12.3	13.3	13.8	12.3	10.7	10.7	10.7	11.3
137.5°	11.8	11.8	11.3	10.7	11.3	11.3	10.2	8.7	9.2	9.2	9.7
140°	10.7	10.7	10.2	9.2	8.7	8.7	7.7	7.2	7.7	7.7	8.2
142.5°	9.2	9.2	8.7	7.7	6.6	6.1	5.6	5.6	6.1	6.1	6.6
145°	7.7	7.7	7.2	6.1	5.1	4.6	4.1	4.1	4.6	4.6	5.1
147.5°	6.1	6.1	5.6	4.6	3.6	2.6	2.6	3.1	3.6	3.6	3.6
150°	5.1	5.1	4.6	3.6	2.0	1.5	1.0	1.5	2.0	2.0	2.0
152.5°	3.6	3.6	3.1	2.0	1.5	0.5	0.5	1.0	1.5	1.5	1.5
155°	2.0	2.0	1.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0
157.5°	1.0	1.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	160.6	159.6	157.0	154.5	152.4	150.9	149.9	148.3	147.8	147.3	147.3
5°	167.3	164.7	160.1	155.5	151.4	147.8	144.7	142.1	140.6	139.5	140.0
7.5°	178.1	173.9	167.3	160.1	153.4	148.3	143.6	140.6	138.0	136.5	136.5
10°	195.0	189.3	179.1	168.8	160.6	152.9	147.3	142.6	139.5	138.0	138.0
12.5°	219.1	212.0	197.5	183.2	171.9	161.6	154.5	149.9	148.8	147.3	147.3
15°	247.9	239.1	221.7	203.2	187.8	173.9	167.8	163.7	161.1	159.1	159.1
17.5°	281.7	270.4	248.4	225.8	206.7	192.4	182.2	176.5	173.4	171.9	171.9
20°	320.7	306.9	279.7	251.4	227.8	212.5	198.6	189.9	186.8	185.3	184.7
22.5°	365.8	348.9	316.1	280.7	253.0	232.4	216.0	203.2	199.6	198.0	197.0
25°	419.7	400.7	357.1	314.0	279.7	251.4	231.4	217.1	212.0	210.4	209.9
27.5°	480.3	457.2	403.9	351.0	304.7	268.3	244.8	229.9	223.2	221.2	221.7
30°	548.0	520.8	455.1	388.4	329.4	283.8	255.5	239.6	232.4	230.4	230.4
32.5°	623.4	587.5	511.1	427.9	352.5	296.6	264.7	248.4	239.6	238.0	238.0
35°	706.6	669.1	571.6	468.0	373.1	306.9	271.4	255.0	245.8	243.8	243.8
37.5°	802.0	752.7	635.8	506.5	390.5	314.6	276.1	259.1	249.9	246.8	246.8
40°	899.0	842.0	702.5	542.9	405.4	319.2	278.7	261.2	252.5	248.4	247.9
42.5°	1005.2	933.9	770.7	576.2	415.6	321.7	279.2	262.7	253.5	248.4	247.3
45°	1115.5	1038.5	833.8	605.0	423.3	321.7	278.7	262.2	253.5	246.8	245.8
47.5°	1226.8	1139.6	899.5	629.1	426.9	320.2	277.6	261.7	253.0	244.8	243.8
50°	1342.8	1240.7	961.6	648.0	426.4	317.1	275.1	260.1	250.9	242.2	241.2
52.5°	1451.6	1333.6	1018.6	661.4	423.3	312.5	271.9	258.6	249.4	239.6	238.6
55°	1557.2	1426.9	1067.8	668.6	416.6	306.9	268.8	256.6	247.9	237.0	236.5
57.5°	1642.4	1505.5	1106.2	668.1	406.9	299.6	265.3	254.0	245.8	235.5	234.5
60°	1712.2	1568.6	1130.9	660.4	395.1	292.5	261.2	250.9	243.8	233.4	231.9
62.5°	1753.3	1604.0	1137.0	643.9	380.7	284.3	255.5	246.3	240.1	230.9	229.3
63°	1757.9	1607.1	1135.5	639.9	377.7	282.2	254.5	245.8	239.6	230.4	228.8
65°	1756.4	1606.0	1120.6	618.8	364.3	274.0	249.4	241.2	236.0	227.3	225.8
67.5°	1716.3	1567.1	1078.6	583.9	344.8	263.2	241.2	234.5	229.3	221.7	220.1
70°	1629.7	1483.9	1007.7	540.3	323.3	250.9	230.9	225.8	220.7	213.5	211.4
72.5°	1501.4	1361.2	912.8	493.6	300.6	236.5	219.6	214.5	210.4	204.2	200.6
75°	1334.1	1205.9	803.0	441.3	276.1	221.7	205.7	201.6	196.5	190.9	187.8
77.5°	1139.6	1028.3	687.0	387.4	250.9	204.7	190.9	186.3	181.7	175.4	171.3
80°	943.1	849.7	572.1	335.0	225.8	186.8	174.4	170.3	164.7	158.0	154.0
82.5°	756.4	683.4	468.0	286.8	201.1	168.8	157.5	152.4	146.3	139.5	137.0
85°	590.5	537.3	377.2	243.3	177.1	150.9	140.6	135.4	127.8	120.1	117.0
87.5°	455.6	416.6	302.7	204.7	155.0	133.4	123.2	117.0	109.8	102.1	99.5
90°	349.4	322.7	242.2	172.4	134.9	116.0	107.7	102.1	93.9	86.2	84.2
92.5°	267.8	249.9	194.5	145.3	115.5	101.6	94.4	88.3	80.0	72.3	70.8
95°	205.7	194.0	157.0	121.6	100.0	88.8	82.7	75.9	67.7	60.6	59.0
97.5°	159.6	151.4	126.7	102.6	86.7	77.4	72.3	65.7	57.5	50.8	49.8
100°	123.7	118.6	103.1	86.2	75.4	67.7	62.6	57.0	49.3	42.0	42.0
102.5°	96.5	93.4	84.7	73.9	65.7	60.0	55.4	49.3	41.5	35.9	35.4
105°	76.4	74.9	69.8	63.1	57.5	52.9	48.8	42.6	35.4	30.3	30.3
107.5°	61.1	60.6	58.0	53.9	50.3	46.6	43.1	36.9	30.3	26.2	26.2



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CATALOG NUMBER: LXF.LXT-AF24-40-D-U-T2U-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	49.8	49.8	48.8	46.1	44.1	41.0	37.4	32.3	25.7	22.6	22.6
112.5°	41.0	41.5	41.0	40.0	39.0	36.4	33.3	27.7	22.1	20.0	20.0
115°	34.4	34.9	34.9	34.9	34.4	32.3	29.3	24.1	19.0	17.5	17.5
117.5°	29.3	29.8	30.3	30.3	29.8	28.2	25.7	21.1	16.5	15.3	15.9
120°	25.2	25.7	26.2	26.7	26.2	25.2	22.1	18.0	14.3	13.8	13.8
122.5°	22.1	22.6	22.6	23.1	23.1	22.1	19.5	15.3	12.3	12.3	12.3
125°	19.0	19.5	20.0	20.0	20.6	19.0	16.5	12.8	10.7	10.7	11.3
127.5°	17.0	17.0	17.0	17.5	17.5	16.5	14.3	10.7	9.2	9.7	9.7
130°	14.8	14.8	15.3	15.3	15.3	14.3	11.8	9.2	8.2	8.7	8.7
132.5°	12.8	13.3	13.3	12.8	12.8	12.3	9.7	7.7	7.2	7.7	7.7
135°	11.3	11.8	11.8	10.7	10.7	9.7	8.2	6.1	6.6	6.6	7.2
137.5°	9.7	10.2	9.7	9.2	8.7	8.2	6.6	5.1	5.6	6.1	6.1
140°	8.2	8.2	8.2	7.7	7.2	6.1	5.1	4.1	5.1	5.1	5.1
142.5°	6.6	6.6	6.6	6.1	5.1	4.6	3.6	3.6	4.1	4.1	4.1
145°	5.1	5.1	5.1	4.6	3.6	3.1	2.6	2.6	3.1	3.6	3.6
147.5°	3.6	3.6	3.6	3.1	2.0	1.5	1.5	2.0	2.6	2.6	2.6
150°	2.6	2.6	2.6	2.0	1.5	1.0	1.0	1.5	1.5	2.0	2.0
152.5°	1.5	2.0	2.0	1.5	1.0	0.5	0.5	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.5	1.0	1.0	0.5	0.0	0.0	0.5	0.5	0.5
157.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	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)