

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: P254366

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254366
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-AF24-40-D-U-T4W-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 4244.2 lumens
Efficiency: N/A
Efficacy: 106.1 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 - G3

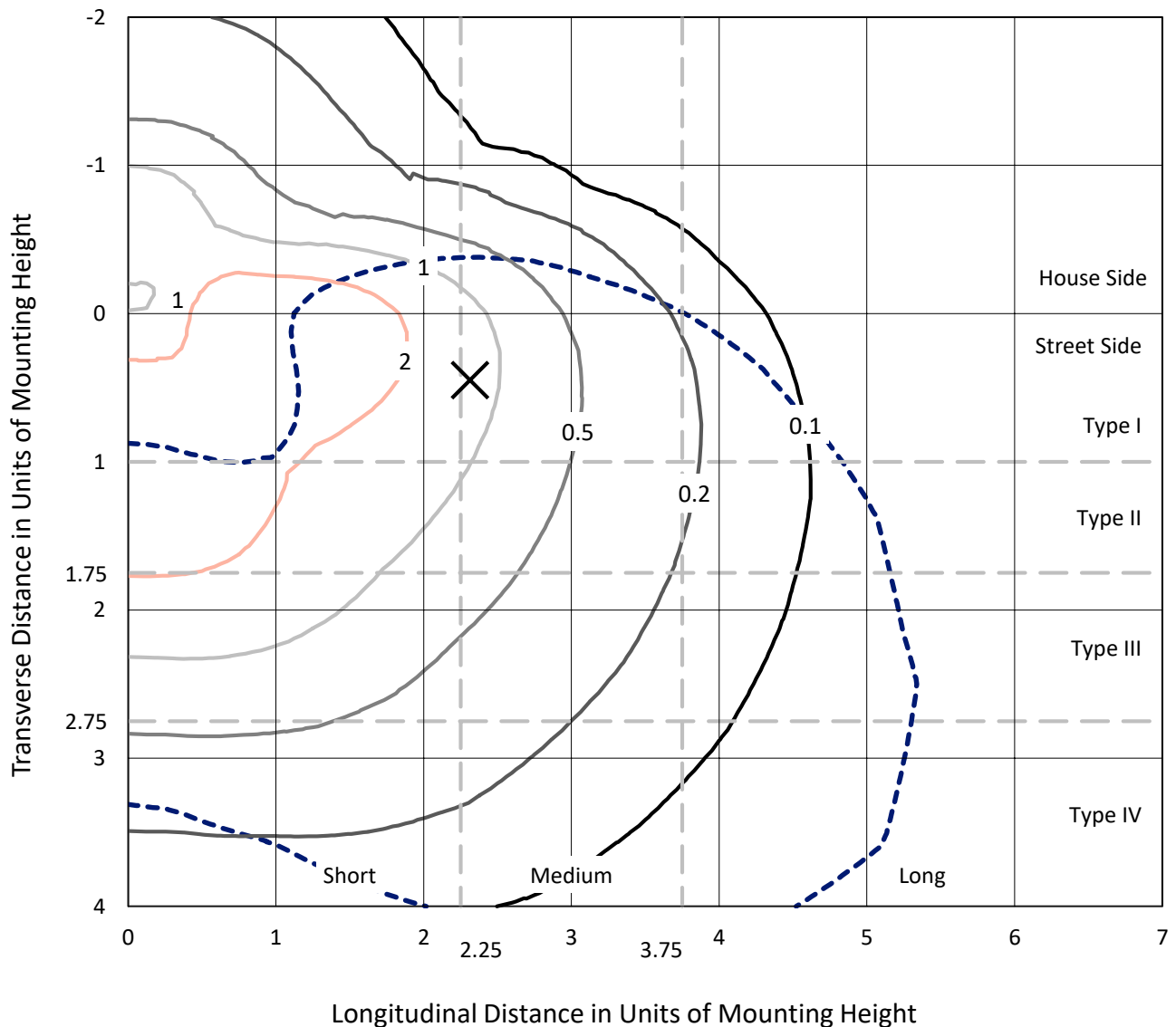
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

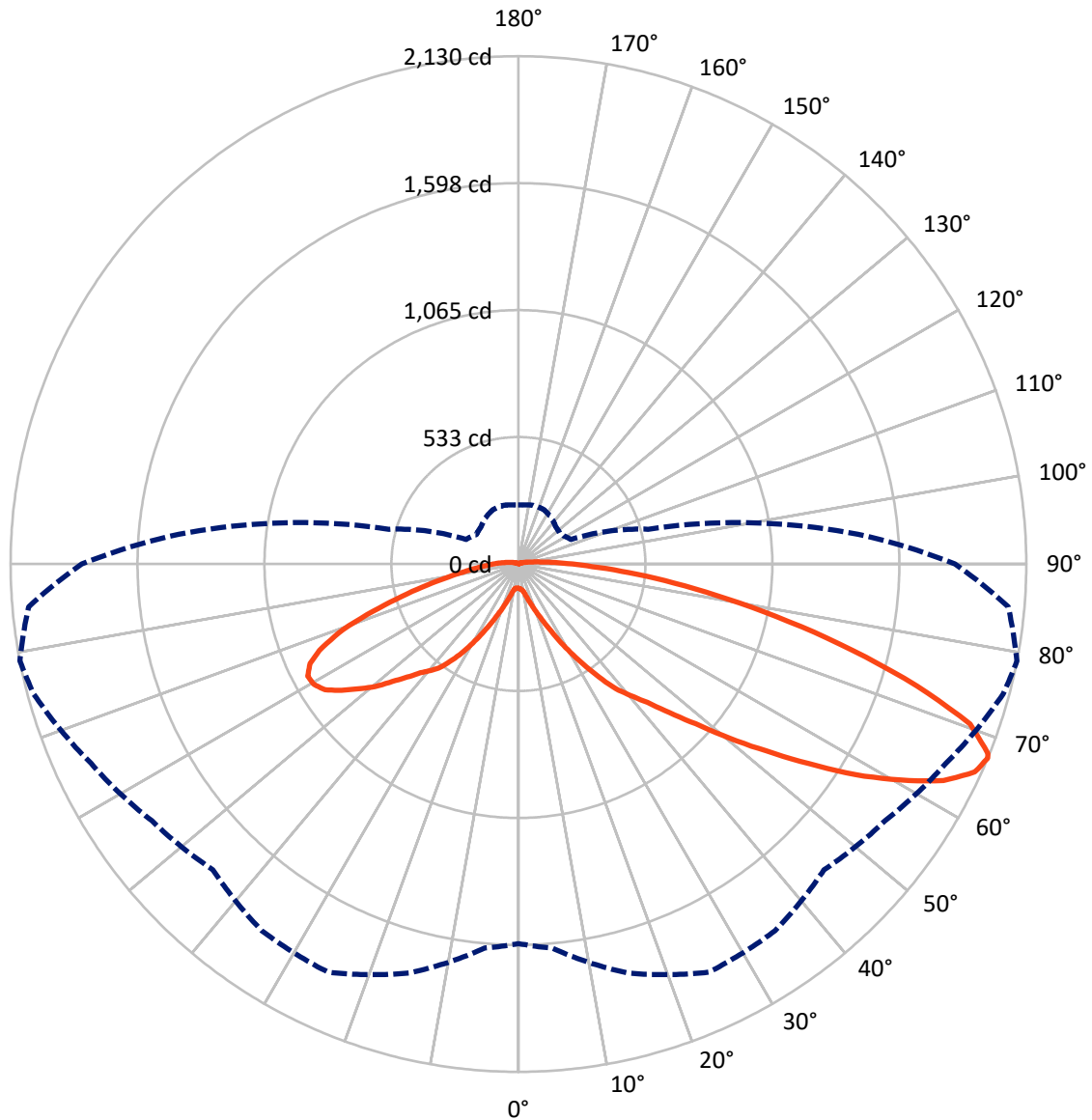
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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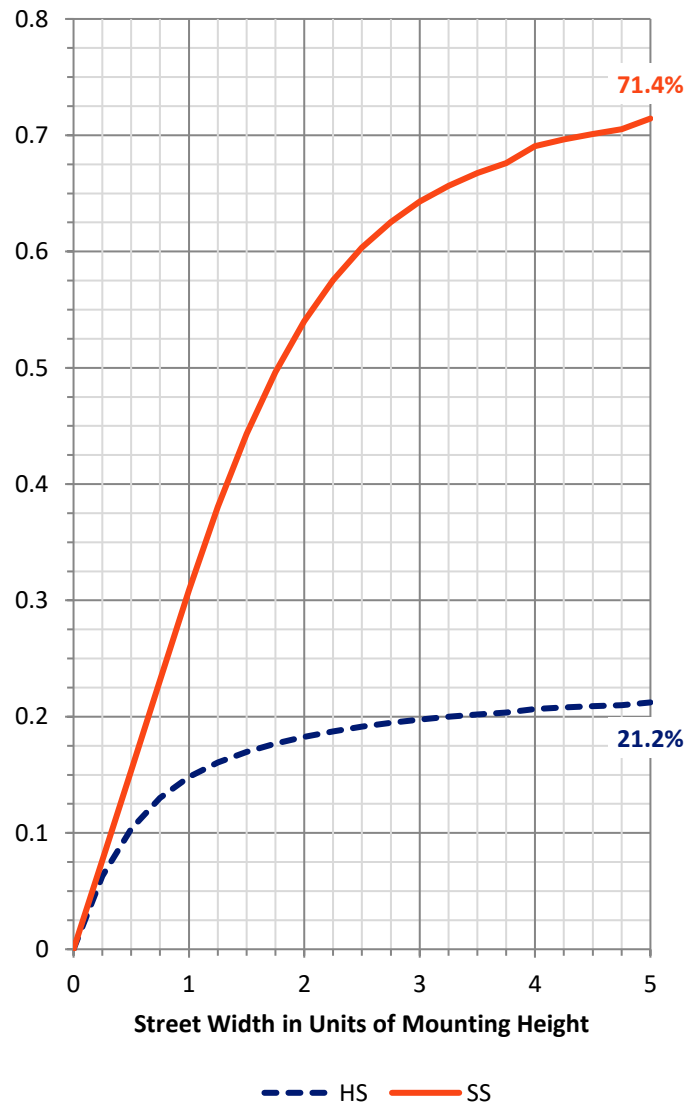
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.5	63.8	1010.4
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	3145.3	88.5	3233.8
	% Fixture	74.1	2.1	76.2
Total	Lumens	4091.8	152.3	4244.2
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.2
10°-20°	43.6	1.0
20°-30°	125.8	3.0
30°-40°	285.3	6.7
40°-50°	495.7	11.7
50°-60°	794.2	18.7
60°-70°	1106.7	26.1
70°-80°	874.2	20.6
80°-90°	356.0	8.4
90°-100°	101.5	2.4
100°-110°	30.2	0.7
110°-120°	11.7	0.3
120°-130°	5.6	0.1
130°-140°	2.5	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°	4091.8	96.4
0°-180°	4244.2	100.0

Coefficient of Utilization



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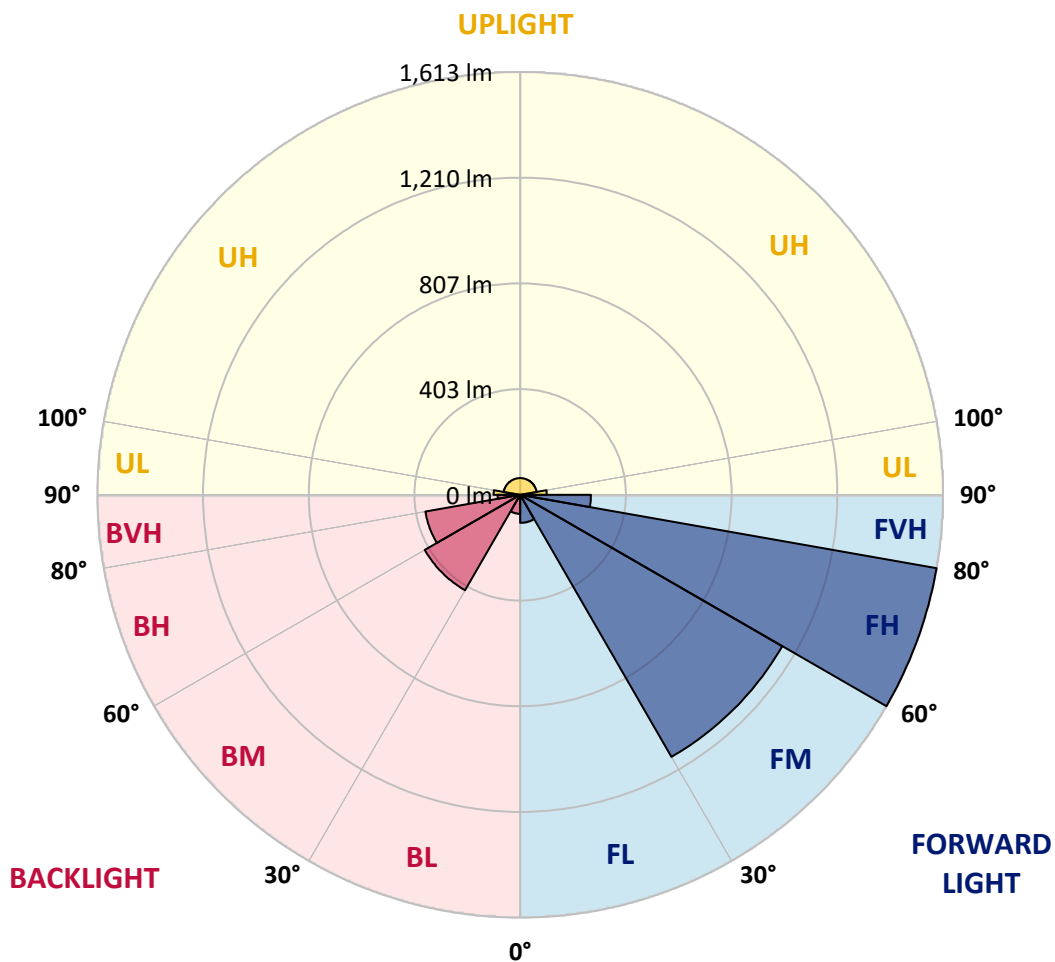
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	107.2	2.5			
FM (30°-60°)	1154.7	27.2			
FH (60°-80°)	1613.4	38.0			G1/1800
FVH (80°-90°)	270.1	6.4			G3/500
BL (0°-30°)	72.5	1.7	B0/110		
BM (30°-60°)	420.5	9.9	B1/1000		
BH (60°-80°)	367.5	8.7	B1/500		G1/500
BVH (80°-90°)	85.9	2.0			G1/100
UL (90°-100°)	101.5	2.4		U3/500	
UH (100°-180°)	63.8	1.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	108.7	108.7	109.3	109.3	109.3	108.2	106.7	105.2	104.1	103.6	102.6
5°	116.9	116.4	116.9	116.4	116.4	114.4	111.8	109.3	107.2	106.2	104.6
7.5°	128.8	128.8	128.3	127.3	126.2	122.7	118.5	115.4	112.3	110.3	108.7
10°	143.6	144.1	143.1	140.6	138.0	133.4	128.8	124.7	120.1	117.4	115.4
12.5°	166.7	166.7	164.7	159.1	152.9	147.2	142.1	138.0	136.0	133.4	131.3
15°	195.5	195.0	191.9	183.1	174.9	165.2	161.6	159.1	157.5	155.5	152.9
17.5°	229.3	228.8	223.2	211.3	198.6	191.4	185.7	183.1	184.1	182.1	180.0
20°	269.9	268.8	260.1	243.7	230.9	221.2	214.9	212.4	215.4	213.9	212.4
22.5°	321.6	319.1	306.8	283.2	268.3	252.4	246.7	245.7	252.9	252.9	252.9
25°	383.2	380.6	362.2	335.0	308.8	289.4	283.7	289.4	301.2	302.7	305.8
27.5°	454.5	451.4	428.9	391.0	356.1	329.9	325.3	336.6	355.0	362.2	365.3
30°	538.7	536.6	504.3	456.0	406.8	374.0	368.9	389.3	418.1	429.4	437.1
32.5°	638.2	635.7	588.9	532.0	463.3	422.2	418.1	449.4	492.6	503.3	518.6
35°	761.3	758.7	697.2	617.7	526.4	473.5	473.5	514.0	566.9	581.8	600.8
37.5°	885.0	884.4	822.4	716.2	596.2	530.0	531.0	577.7	641.3	664.4	681.8
40°	1005.6	1006.6	935.8	814.2	674.1	592.0	591.5	638.7	704.9	724.9	741.8
42.5°	1115.3	1114.8	1048.1	918.3	755.1	659.2	650.0	696.2	766.5	793.6	816.2
45°	1191.7	1197.4	1146.1	1012.2	836.8	729.1	710.0	761.3	851.1	888.5	918.8
47.5°	1286.7	1287.2	1240.0	1100.4	920.3	801.4	783.9	848.5	962.4	1001.5	1033.2
50°	1391.3	1396.4	1359.0	1211.3	1014.8	882.9	876.3	957.8	1093.2	1148.2	1187.6
52.5°	1480.6	1486.8	1463.6	1337.9	1128.6	987.6	987.6	1091.2	1236.3	1302.0	1340.6
55°	1546.3	1556.5	1562.1	1459.5	1257.4	1110.2	1121.5	1238.0	1399.0	1477.6	1524.2
57.5°	1598.6	1613.0	1639.6	1567.8	1384.2	1257.4	1273.9	1398.5	1594.5	1667.8	1717.1
60°	1676.0	1692.5	1740.7	1683.8	1529.8	1416.0	1438.0	1573.9	1774.0	1840.2	1877.6
62.5°	1683.8	1703.7	1801.2	1809.4	1666.3	1570.8	1619.6	1753.0	1943.8	2001.3	2009.5
65°	1648.4	1674.5	1803.8	1878.6	1811.4	1716.1	1784.8	1907.4	2065.4	2103.4	2082.3
67°	1591.9	1617.1	1776.0	1889.0	1877.1	1813.1	1877.1	1978.2	2104.9	2130.1	2062.4
67.5°	1567.8	1591.9	1760.7	1886.9	1885.4	1830.0	1892.0	1993.6	2107.0	2124.0	2047.4
70°	1413.4	1446.8	1627.3	1821.3	1881.8	1845.3	1918.2	1988.5	2016.1	2010.0	1900.2
72.5°	1142.0	1173.3	1370.2	1641.6	1780.2	1761.7	1826.4	1839.2	1790.5	1748.4	1598.6
75°	837.8	851.6	1033.2	1325.1	1552.4	1573.4	1622.2	1593.5	1504.1	1448.3	1295.9
77.5°	581.8	595.7	735.2	1003.5	1251.8	1330.2	1378.5	1336.4	1242.6	1156.9	990.6
80°	385.2	392.5	501.8	731.1	981.9	1091.2	1132.7	1089.6	970.7	886.5	729.1
82.5°	235.0	248.8	327.9	512.5	759.2	893.6	923.9	874.2	745.4	658.2	525.4
85°	141.1	148.2	209.8	346.3	558.6	709.0	737.8	673.1	542.8	464.3	351.9
87.5°	87.3	90.3	131.9	224.2	392.0	529.5	560.3	483.8	366.3	309.3	235.5
90°	56.5	59.0	86.7	147.7	259.1	377.1	391.0	329.4	243.7	206.2	159.6
92.5°	38.0	40.0	59.0	98.0	170.3	247.2	257.6	217.5	161.1	137.5	108.7
95°	26.7	28.2	41.5	66.7	110.8	152.3	163.2	141.1	105.2	90.8	74.9
97.5°	20.6	21.6	31.3	48.2	74.9	98.5	102.6	91.9	71.3	62.6	54.4
100°	16.4	17.5	24.7	36.4	53.9	67.2	69.8	63.1	50.2	45.1	40.0
102.5°	14.3	14.3	20.0	28.7	40.5	49.7	50.2	45.1	36.9	33.3	30.8
105°	12.3	12.3	16.4	23.1	32.3	38.5	38.5	33.3	27.2	24.7	23.6
107.5°	10.2	10.7	13.8	18.5	25.7	30.8	29.8	24.7	19.5	18.0	17.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	8.7	9.2	11.8	15.3	21.1	25.2	23.6	19.0	14.3	13.3	13.3
112.5°	7.7	8.2	9.7	13.3	18.0	21.1	19.0	14.3	10.7	10.2	10.7
115°	7.2	7.2	8.7	11.8	15.3	17.5	15.9	11.8	8.7	8.2	8.7
117.5°	6.1	6.6	7.7	10.2	13.8	14.8	13.3	9.2	6.6	6.6	7.7
120°	6.1	6.1	7.2	9.2	12.3	13.3	11.3	7.7	5.6	5.6	6.6
122.5°	5.6	5.6	6.6	8.7	10.7	11.8	9.7	6.6	5.1	5.1	5.6
125°	5.6	5.6	6.6	8.2	9.7	9.7	8.2	5.6	4.6	4.6	5.1
127.5°	6.1	6.1	6.6	7.7	8.7	8.7	7.2	5.1	4.1	4.1	4.6
130°	6.1	6.1	6.1	7.2	7.7	7.2	6.1	4.6	4.1	4.1	4.6
132.5°	6.1	6.1	6.1	6.1	6.6	6.1	5.1	3.6	3.6	3.6	4.1
135°	5.6	5.6	5.1	5.6	5.6	4.6	3.6	2.6	3.1	3.1	3.6
137.5°	4.6	4.6	4.6	4.6	4.1	3.6	2.6	2.0	2.6	3.1	3.1
140°	4.1	4.1	3.6	3.6	3.1	2.6	1.5	2.0	2.6	2.6	2.6
142.5°	3.1	3.1	3.1	2.6	2.0	1.5	1.0	1.5	2.0	2.0	2.6
145°	2.0	2.0	2.0	1.5	1.0	0.5	1.0	1.0	1.5	2.0	2.0
147.5°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.5	1.5	1.5
150°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	1.0	1.5	1.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	1.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
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°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	102.1	101.6	100.0	99.0	98.0	97.5	97.0	97.0	96.5	96.0	96.0
5°	103.6	102.6	100.0	98.0	96.5	95.4	94.4	93.9	92.9	92.4	92.4
7.5°	106.7	105.2	102.1	98.5	96.0	94.4	93.4	92.4	91.3	91.3	91.3
10°	112.8	110.8	106.2	101.6	97.5	95.4	94.4	93.4	93.4	92.9	92.9
12.5°	128.3	125.2	117.4	109.3	102.1	99.0	98.0	100.6	103.6	104.1	105.7
15°	149.2	146.2	136.5	124.7	112.8	106.2	109.8	114.4	119.6	123.7	123.7
17.5°	175.4	171.9	158.6	142.1	127.8	123.7	124.7	131.3	138.5	142.1	142.6
20°	207.8	202.6	184.1	161.6	145.7	139.5	141.1	147.7	158.0	163.2	164.2
22.5°	248.3	240.6	215.9	184.1	164.7	156.5	158.0	166.2	180.0	187.3	189.9
25°	299.6	289.9	252.4	211.3	183.6	171.3	175.9	188.8	206.2	217.0	216.5
27.5°	358.6	343.2	296.6	239.6	202.6	185.7	192.9	210.8	231.9	244.2	245.7
30°	429.4	409.4	344.7	269.3	219.0	198.6	207.8	230.4	253.9	270.4	271.9
32.5°	507.9	484.3	394.0	299.1	232.4	208.3	218.5	246.7	273.9	293.5	294.0
35°	588.4	558.1	440.7	324.8	243.7	215.9	226.8	259.1	290.9	313.4	315.0
37.5°	665.4	630.0	483.8	341.7	250.8	220.0	231.4	269.3	305.2	329.4	330.9
40°	723.3	679.8	510.5	347.3	252.4	222.2	235.5	273.4	305.2	323.8	324.8
42.5°	796.2	738.8	530.0	341.7	248.3	222.2	237.0	268.3	293.0	305.2	305.2
45°	893.6	822.9	559.8	335.0	240.1	220.7	232.9	257.1	273.4	279.6	279.6
47.5°	1010.2	917.8	589.9	330.4	233.9	217.0	226.8	243.2	251.9	252.4	251.3
50°	1157.4	1037.9	627.5	323.8	230.4	213.4	221.2	231.9	237.0	235.0	233.9
52.5°	1297.9	1144.6	654.1	315.5	228.3	211.9	218.0	227.3	228.8	222.7	221.2
55°	1465.7	1269.7	672.6	302.2	226.3	212.9	218.0	225.8	224.7	216.5	214.9
57.5°	1632.9	1387.2	689.0	290.4	224.2	214.4	220.0	226.8	224.7	217.0	215.4
60°	1761.2	1467.7	679.8	278.0	222.2	217.0	223.7	230.4	230.4	224.2	223.7
62.5°	1861.8	1516.0	657.7	265.3	220.7	219.0	228.3	238.0	240.1	235.5	235.0
65°	1884.4	1496.5	615.1	252.9	218.5	220.7	234.5	246.7	248.3	243.7	243.2
67°	1831.5	1429.8	562.8	242.6	215.4	221.2	238.6	251.9	253.9	249.3	247.8
67.5°	1808.4	1403.6	549.4	240.1	214.4	221.2	239.1	252.4	255.0	250.3	248.8
70°	1631.4	1248.2	478.1	225.8	207.8	218.5	240.1	256.0	257.6	251.9	249.8
72.5°	1351.8	1006.6	395.6	211.9	199.6	211.9	236.5	253.4	252.9	244.7	243.2
75°	1071.7	789.0	318.5	196.0	188.3	201.6	226.8	241.6	238.6	228.8	226.8
77.5°	814.2	589.9	259.1	180.0	175.4	188.3	210.3	221.2	214.9	205.7	203.7
80°	580.2	424.8	210.8	165.2	161.6	172.9	189.9	195.5	191.4	182.6	180.0
82.5°	405.8	305.2	175.4	150.3	148.2	157.0	167.8	173.4	171.3	163.7	161.6
85°	280.6	213.4	147.7	135.4	134.4	140.6	147.2	150.8	152.3	148.2	145.7
87.5°	188.8	157.0	125.7	119.1	119.6	124.2	128.8	132.4	137.0	136.5	133.9
90°	134.9	117.4	105.2	102.1	103.1	108.2	110.3	112.3	117.9	117.9	116.4
92.5°	96.5	89.3	85.2	84.1	86.2	90.3	91.3	91.9	96.0	96.5	93.4
95°	68.7	65.2	66.7	67.7	69.8	73.3	72.8	71.3	73.3	73.3	70.8
97.5°	50.7	49.7	52.9	53.9	55.4	58.5	57.0	54.4	56.0	53.9	52.4
100°	39.0	39.0	42.6	43.1	44.1	45.6	45.1	43.1	43.6	41.0	40.0
102.5°	30.8	31.3	33.9	34.4	35.4	36.9	35.9	34.9	33.9	30.8	30.8
105°	24.1	24.7	26.7	27.2	28.2	29.8	29.3	27.7	26.2	23.6	23.6
107.5°	18.5	19.5	21.1	21.6	22.6	24.1	23.6	21.6	19.5	18.0	18.0



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CATALOG NUMBER: LXF.LXT-AF24-40-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	14.3	15.3	16.9	17.5	18.0	19.5	18.5	16.4	14.8	13.8	13.8
112.5°	11.8	12.3	13.8	14.3	14.8	15.9	14.8	12.8	11.3	10.7	10.7
115°	9.7	10.2	11.3	11.8	12.8	12.8	11.8	9.7	8.7	8.7	8.7
117.5°	8.2	8.7	9.7	10.2	10.2	10.7	9.2	7.7	6.6	7.2	7.2
120°	7.2	7.2	8.2	8.2	8.7	8.7	7.7	6.1	5.1	5.6	6.1
122.5°	6.1	6.1	6.6	7.2	7.2	7.2	6.1	5.1	4.1	4.6	5.1
125°	5.1	5.6	5.6	6.1	6.1	6.1	5.1	4.1	3.6	4.1	4.1
127.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.1	3.1	3.1	3.6	3.6
130°	4.6	4.6	4.6	4.6	4.1	3.6	3.1	2.0	2.6	3.1	3.1
132.5°	4.1	4.1	4.1	3.6	3.1	2.6	2.0	1.5	1.5	2.6	2.6
135°	3.6	3.6	3.1	2.6	2.0	1.5	1.0	1.0	1.0	2.0	2.0
137.5°	3.1	3.1	2.6	2.0	1.5	1.0	0.5	0.0	0.5	1.0	1.0
140°	3.1	3.1	2.6	1.5	1.0	0.5	0.0	0.0	0.0	0.5	0.5
142.5°	2.6	2.6	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	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)