

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: P266097

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-37)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T2U-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4724.8 lumens
Efficiency: N/A
Efficacy: 87.5 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: B2 - U3 - G2

Input Watts (W): 54
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

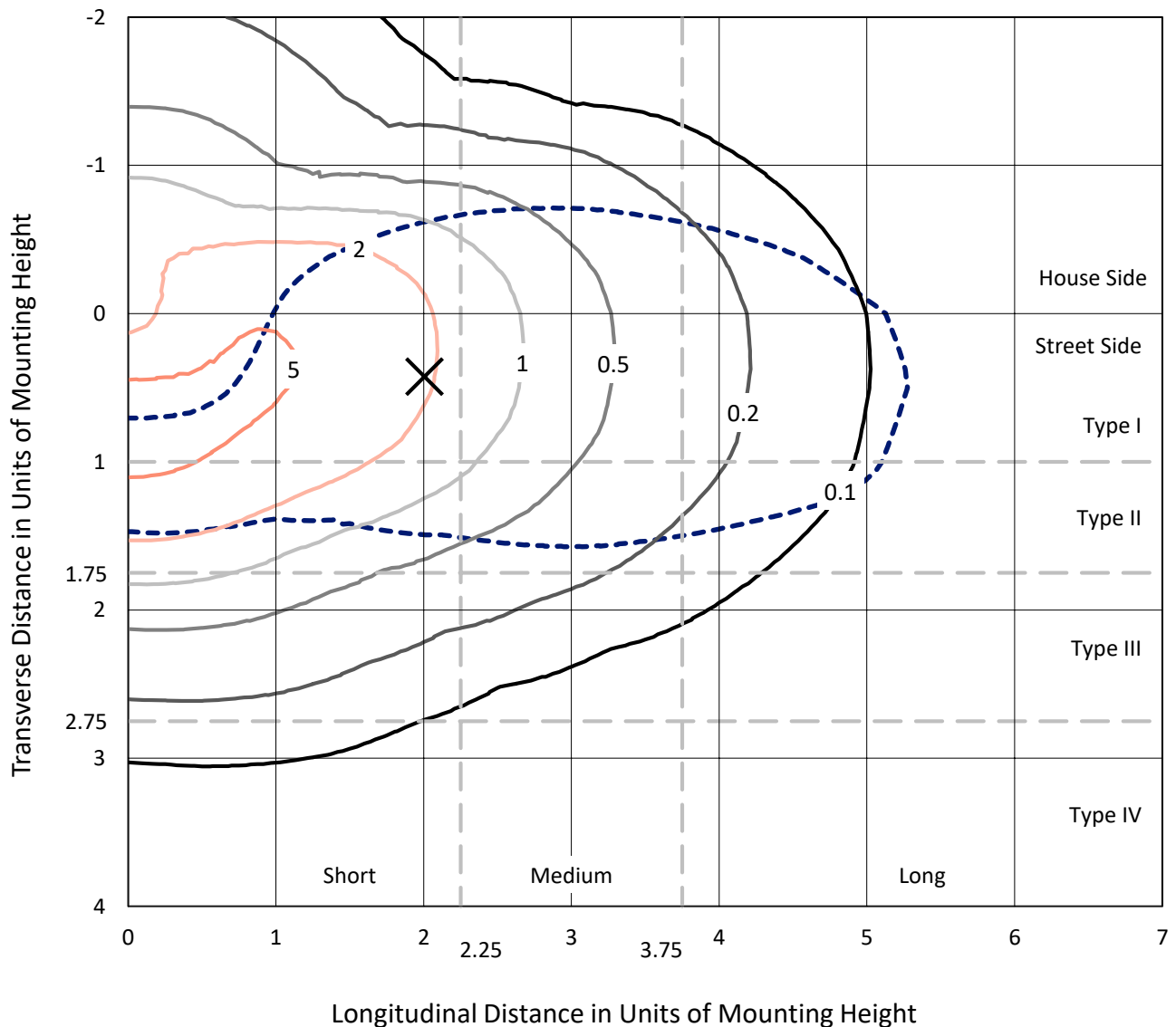


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

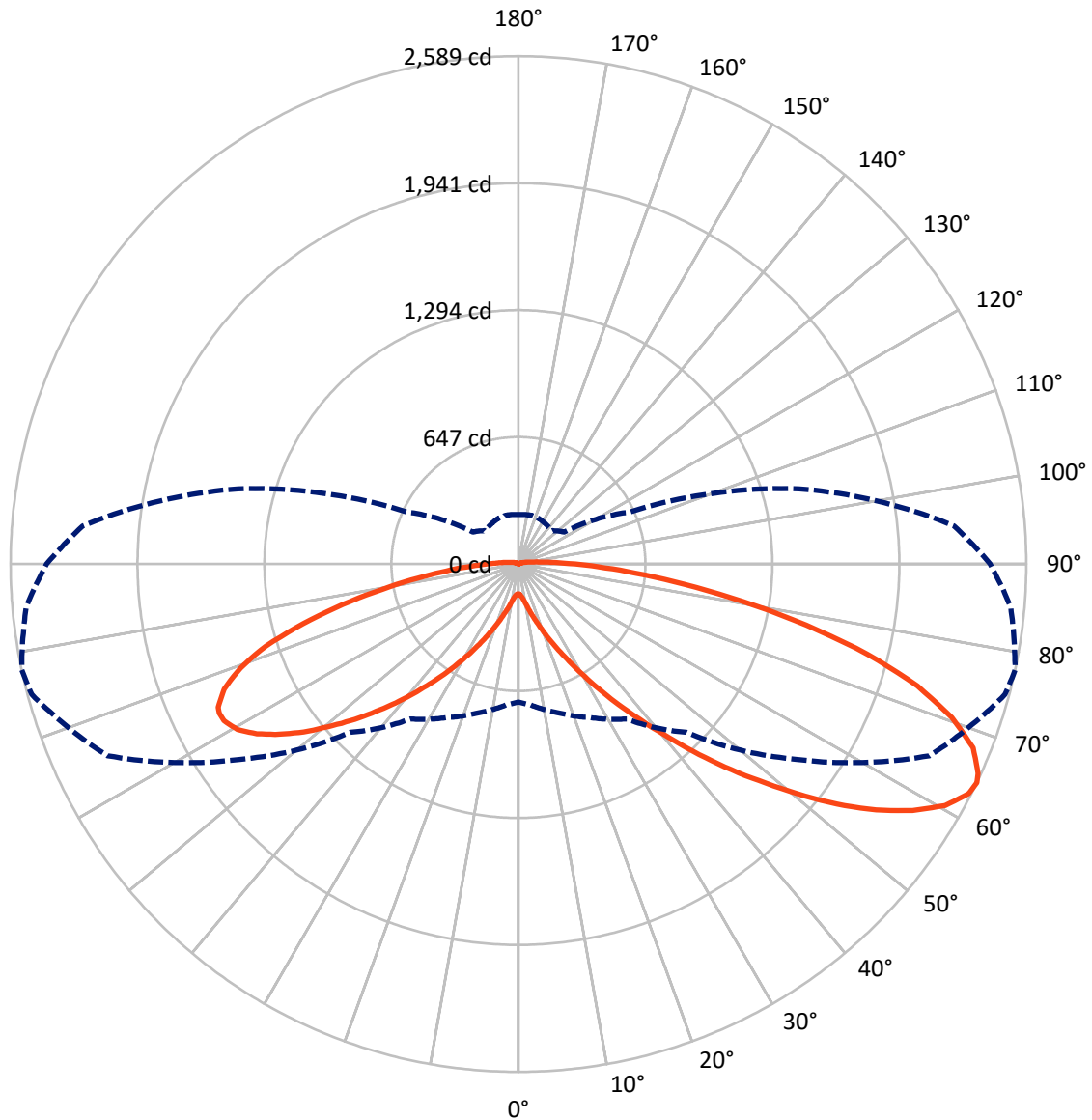


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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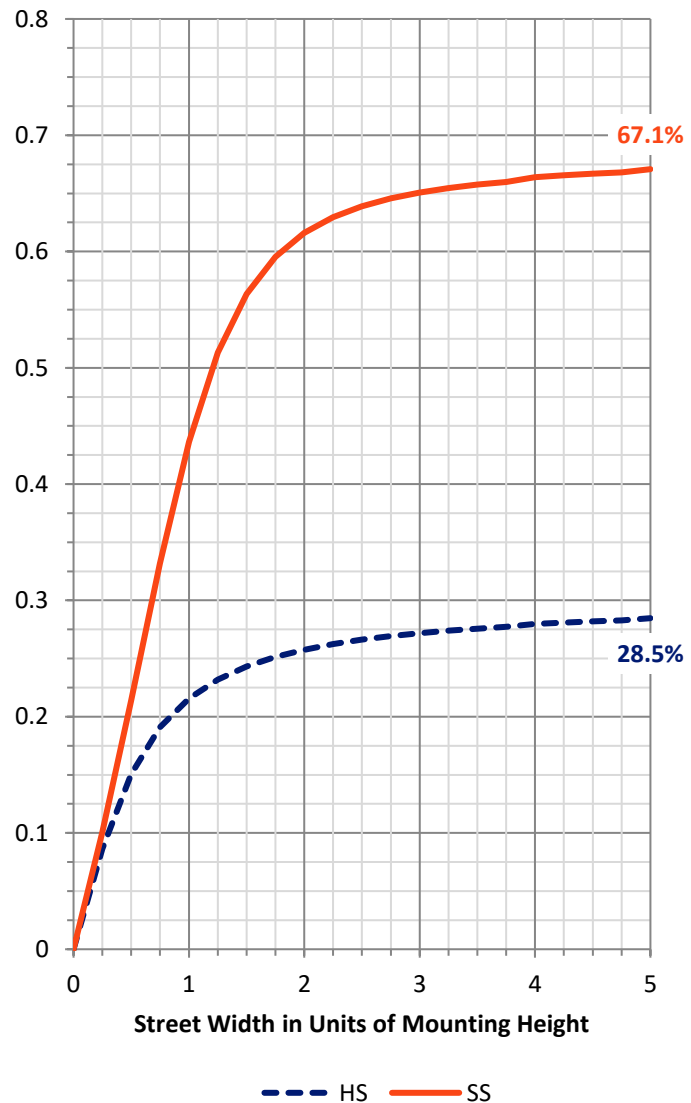
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.3	63.9	1451.2
	% Fixture	29.4	1.4	30.7
Street Side	Lumens	3213.1	60.5	3273.6
	% Fixture	68.0	1.3	69.3
Total	Lumens	4600.4	124.4	4724.8
	% Fixture	97.4	2.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	0.4
10°-20°	76.6	1.6
20°-30°	213.5	4.5
30°-40°	463.9	9.8
40°-50°	801.2	17.0
50°-60°	1060.8	22.5
60°-70°	1034.9	21.9
70°-80°	672.6	14.2
80°-90°	260.3	5.5
90°-100°	75.1	1.6
100°-110°	28.6	0.6
110°-120°	12.4	0.3
120°-130°	5.4	0.1
130°-140°	2.2	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4600.4	97.4
0°-180°	4724.8	100.0



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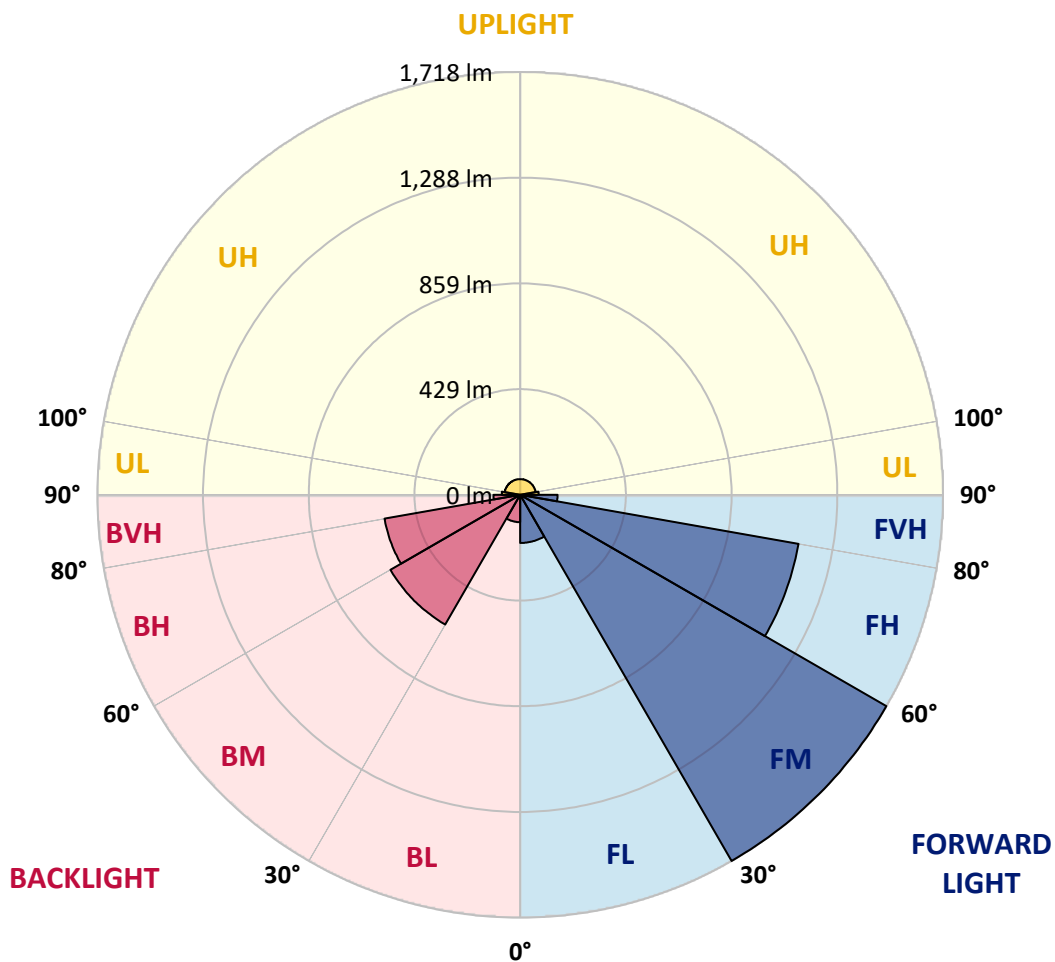
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.6	4.1			
FM (30°-60°)	1717.6	36.4			
FH (60°-80°)	1148.1	24.3			G1/1800
FVH (80°-90°)	151.8	3.2			G2/225
BL (0°-30°)	111.1	2.4	B1/500		
BM (30°-60°)	608.3	12.9	B1/1000		
BH (60°-80°)	559.4	11.8	B2/1000		G2/1000
BVH (80°-90°)	108.5	2.3			G2/225
UL (90°-100°)	75.1	1.6		U3/500	
UH (100°-180°)	63.9	1.4		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
2.5°	164.6	164.1	164.1	164.6	163.0	162.4	160.6	158.5	156.8	156.2	154.5
5°	182.6	181.5	180.4	180.9	179.2	176.4	173.6	170.3	167.4	166.4	163.5
7.5°	203.9	205.2	202.8	201.7	199.5	196.6	191.6	187.7	183.8	182.0	179.2
10°	237.7	238.2	234.3	234.8	228.1	224.8	219.6	213.0	208.4	205.6	201.7
12.5°	283.8	283.1	278.7	276.9	268.7	262.5	254.5	246.7	242.2	238.8	232.0
15°	340.0	338.8	336.0	329.3	316.4	308.5	299.0	287.1	280.9	276.5	269.1
17.5°	406.3	406.8	401.3	392.2	374.9	363.5	349.5	333.8	324.7	318.5	310.8
20°	488.9	489.3	479.2	466.4	443.9	428.1	404.5	390.0	375.9	372.5	360.2
22.5°	587.2	586.7	571.4	554.6	524.3	500.6	474.8	451.2	434.9	430.4	417.0
25°	699.1	697.9	679.3	661.3	615.8	584.9	551.2	521.9	505.7	496.8	481.5
27.5°	830.5	828.2	803.5	777.7	719.8	674.3	633.2	605.6	585.4	573.7	556.8
30°	972.1	969.8	940.0	897.9	835.6	783.3	729.3	697.4	674.3	665.3	642.3
32.5°	1124.9	1120.4	1085.6	1034.5	960.8	894.5	840.0	803.5	775.3	766.4	736.6
35°	1279.9	1273.7	1236.7	1177.1	1092.2	1019.8	964.2	926.1	891.2	879.4	843.4
37.5°	1428.8	1420.5	1391.2	1315.9	1230.0	1162.5	1100.2	1052.5	1014.1	1003.5	956.3
40°	1546.9	1541.9	1514.8	1442.4	1360.4	1292.3	1244.6	1206.3	1158.0	1141.7	1091.3
42.5°	1636.8	1631.7	1610.9	1550.8	1477.7	1431.1	1391.2	1363.6	1322.1	1304.7	1233.4
45°	1683.5	1676.1	1667.2	1623.9	1573.8	1550.8	1545.8	1535.7	1495.1	1474.9	1391.8
47.5°	1672.7	1669.4	1677.9	1651.4	1631.7	1652.0	1695.2	1715.5	1668.8	1650.2	1562.6
50°	1605.4	1609.9	1631.1	1628.8	1648.0	1716.7	1825.5	1892.4	1863.3	1838.6	1743.0
52.5°	1492.4	1498.6	1536.8	1557.5	1612.5	1742.4	1926.8	2059.4	2062.1	2033.5	1925.5
55°	1344.0	1357.5	1404.2	1444.7	1533.3	1712.7	1986.3	2199.8	2241.9	2212.7	2098.1
57.5°	1168.2	1187.7	1238.9	1305.9	1409.3	1631.1	1998.1	2305.0	2394.3	2370.1	2260.4
60°	985.0	999.0	1062.5	1137.9	1241.2	1506.4	1949.2	2359.9	2513.8	2498.7	2409.3
62.5°	805.2	821.0	886.1	968.7	1069.8	1329.4	1832.9	2356.1	2569.5	2576.8	2497.6
64°	703.6	720.9	784.9	863.0	964.2	1214.2	1736.2	2312.1	2568.4	2588.6	2518.9
65°	640.0	657.4	720.4	797.9	896.8	1134.5	1663.8	2270.0	2557.7	2574.6	2519.4
67.5°	500.0	514.1	573.7	653.4	732.7	935.0	1434.0	2103.7	2471.1	2499.3	2467.3
70°	384.4	397.8	452.3	526.0	592.3	760.2	1184.4	1860.4	2304.3	2343.7	2328.4
72.5°	295.5	306.9	355.1	419.1	473.0	601.2	946.3	1572.8	2062.7	2126.7	2129.5
75°	228.1	237.2	276.9	332.6	375.3	467.5	737.1	1263.1	1754.7	1839.5	1859.3
77.5°	178.1	183.8	215.8	261.2	296.1	357.3	554.6	972.1	1416.0	1500.2	1535.1
80°	140.0	144.4	169.2	205.2	232.7	268.7	406.3	719.3	1085.6	1162.0	1195.1
82.5°	108.4	112.4	132.1	161.2	182.6	206.3	290.5	512.5	790.0	852.9	879.9
85°	82.6	85.3	102.2	124.1	141.7	158.5	202.8	350.1	550.1	597.8	616.3
87.5°	61.3	63.5	77.6	95.5	108.4	121.5	147.9	231.6	369.7	404.0	417.5
90°	44.3	46.1	57.3	72.6	83.7	93.2	107.3	153.4	237.7	260.7	270.7
92.5°	31.5	33.1	42.1	54.4	65.1	73.0	82.6	106.8	152.3	164.6	172.6
95°	23.0	24.2	30.9	41.1	50.6	57.9	65.8	77.6	100.6	107.3	110.1
97.5°	17.3	18.0	23.5	31.5	39.9	46.1	51.7	59.0	70.7	74.2	75.8
100°	13.5	14.1	18.5	25.3	32.0	37.6	41.6	46.1	52.2	54.4	55.7
102.5°	11.1	11.8	15.2	20.8	26.4	30.9	34.2	37.1	39.9	41.1	42.7
105°	10.2	10.2	13.5	18.0	22.5	26.4	29.3	30.4	30.9	31.5	32.0
107.5°	8.4	9.1	11.8	15.7	19.7	23.0	24.8	24.8	23.5	23.5	24.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	7.8	7.8	10.2	13.5	17.3	19.7	20.8	19.7	17.3	17.3	18.0
112.5°	6.7	7.2	9.1	11.8	15.2	17.3	17.3	15.7	12.9	12.9	13.5
115°	6.2	6.2	7.8	10.7	12.9	14.6	14.6	12.9	9.5	9.5	10.2
117.5°	5.6	5.6	6.7	9.1	11.1	12.9	12.3	10.2	7.2	7.2	8.4
120°	5.6	5.6	6.2	7.8	9.5	10.7	10.2	7.8	5.6	5.6	6.7
122.5°	5.1	5.1	5.6	6.7	8.4	9.1	8.4	6.2	4.5	5.1	5.6
125°	5.1	5.1	5.1	6.2	7.2	7.8	7.2	5.1	4.0	4.0	4.5
127.5°	4.5	4.5	4.5	5.1	6.2	6.7	5.6	4.0	3.4	3.4	4.0
130°	4.5	4.5	4.0	4.5	5.6	5.6	4.5	2.9	2.2	2.9	3.4
132.5°	4.0	4.0	4.0	4.0	4.5	4.5	4.0	2.2	2.2	2.2	2.9
135°	4.0	4.0	3.4	3.4	4.0	4.0	2.9	1.6	1.6	1.6	2.2
137.5°	3.4	3.4	3.4	2.9	2.9	2.9	2.2	1.1	1.1	1.6	1.6
140°	2.9	2.9	2.9	2.2	2.2	1.6	1.1	0.5	1.1	1.1	1.6
142.5°	2.2	2.2	2.2	1.6	1.6	1.1	0.5	0.5	0.5	1.1	1.1
145°	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
147.5°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
2.5°	154.0	153.4	151.8	150.6	149.5	148.3	148.3	147.2	146.7	146.1	146.1
5°	163.0	160.6	157.9	155.6	152.8	150.0	147.9	146.1	144.9	144.4	143.9
7.5°	176.4	173.6	168.5	164.6	159.5	155.6	152.3	148.8	147.9	146.7	146.7
10°	199.0	193.9	186.6	179.2	172.6	165.7	161.9	157.4	156.2	155.0	155.0
12.5°	228.7	223.7	211.8	201.7	191.0	182.0	175.9	171.9	170.8	169.2	169.7
15°	264.1	255.1	242.2	227.6	214.1	201.7	194.5	188.3	185.4	183.8	184.3
17.5°	303.9	293.8	275.3	256.2	238.8	225.4	213.0	203.9	199.5	197.7	197.7
20°	350.1	338.8	315.2	289.3	266.8	247.8	232.0	218.6	213.0	210.7	210.7
22.5°	404.5	390.6	358.0	324.7	296.7	268.7	247.8	231.6	224.8	222.5	222.5
25°	467.5	449.0	407.4	366.4	324.2	286.6	260.1	242.7	234.8	232.0	232.0
27.5°	533.2	515.7	461.9	409.5	351.7	301.2	269.8	250.5	241.6	239.9	239.4
30°	616.3	591.7	521.9	450.6	375.3	311.4	273.7	255.1	246.1	244.3	244.3
32.5°	703.6	674.3	589.9	493.3	393.3	315.8	274.3	256.7	248.9	247.3	246.7
35°	805.8	768.1	660.8	537.1	409.5	317.6	273.7	258.0	251.7	249.5	248.9
37.5°	917.0	869.2	735.5	577.6	418.0	314.6	271.9	257.4	252.9	250.1	249.5
40°	1037.3	982.1	821.0	610.2	419.1	309.0	268.7	258.0	253.4	250.1	248.9
42.5°	1171.5	1105.3	903.5	640.0	415.7	302.3	266.3	258.0	254.0	250.1	248.9
45°	1321.0	1240.1	990.0	662.9	406.8	294.5	264.1	258.0	254.5	249.5	248.9
47.5°	1480.5	1384.5	1078.9	681.0	395.6	286.6	262.9	259.0	256.2	250.1	249.5
50°	1647.4	1536.8	1164.8	692.9	382.0	279.3	261.9	259.0	257.4	250.5	250.1
52.5°	1827.2	1698.1	1258.0	699.1	366.4	271.9	260.7	260.1	258.4	252.2	251.2
55°	1994.6	1853.2	1341.2	699.1	350.1	265.2	259.6	260.7	260.1	254.0	252.9
57.5°	2150.9	1995.9	1414.3	690.5	332.6	258.4	257.4	260.1	260.7	255.1	254.0
60°	2285.7	2120.5	1465.9	677.1	314.6	251.7	254.5	259.0	260.7	255.7	254.5
62.5°	2376.7	2207.0	1483.5	648.4	295.5	244.3	249.5	255.7	259.0	254.5	253.4
64°	2404.9	2229.1	1479.5	627.0	283.8	239.9	246.1	253.4	256.7	253.4	252.2
65°	2412.8	2232.4	1465.5	609.1	276.5	236.6	243.4	251.2	255.1	251.7	250.5
67.5°	2365.5	2174.0	1396.2	555.7	259.0	227.6	235.4	243.4	248.3	246.7	245.5
70°	2245.4	2050.3	1282.2	497.3	241.0	216.9	224.8	233.2	239.4	238.2	237.7
72.5°	2047.0	1855.4	1138.4	428.8	223.0	205.2	210.7	220.3	226.5	225.8	224.8
75°	1784.6	1598.5	940.5	366.4	203.3	189.9	195.6	203.9	210.2	209.0	209.0
77.5°	1477.7	1299.7	755.1	302.9	185.4	173.6	178.8	185.4	191.0	189.4	188.9
80°	1151.3	1000.2	577.0	246.7	166.4	156.2	159.5	164.6	169.7	167.4	166.8
82.5°	846.3	731.6	425.3	197.7	147.2	136.5	139.3	143.9	146.7	144.4	143.9
85°	593.3	511.3	307.8	157.4	126.4	117.5	117.9	120.3	122.4	119.1	118.5
87.5°	400.0	342.8	213.4	124.8	106.8	99.0	98.4	99.4	101.1	97.7	96.1
90°	262.5	223.7	146.1	101.1	89.3	82.6	81.4	81.4	82.0	78.2	77.0
92.5°	166.4	144.9	106.2	82.6	74.6	68.5	66.8	66.4	65.8	61.9	61.3
95°	108.4	99.4	81.4	68.5	61.9	56.8	55.1	54.0	52.8	50.0	48.9
97.5°	76.4	72.0	64.6	56.8	51.7	47.3	45.5	43.8	42.7	39.3	38.7
100°	57.3	55.7	52.2	47.3	43.3	39.3	37.6	35.9	34.9	31.5	30.9
102.5°	44.3	44.3	42.7	39.3	35.9	32.6	31.5	29.7	28.0	25.8	25.3
105°	34.2	34.2	34.9	33.1	30.4	28.0	26.4	25.3	23.5	20.8	20.8
107.5°	25.8	26.9	28.0	27.6	25.8	23.5	22.5	21.4	19.1	17.3	17.3



REPORT NUMBER: P266097

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	19.7	20.2	22.5	23.0	21.9	20.2	19.1	17.3	15.7	14.1	14.1
112.5°	14.6	15.7	18.0	19.1	18.5	17.3	16.3	14.6	12.3	11.8	11.8
115°	11.1	12.3	14.6	15.7	15.7	14.6	13.5	11.8	10.2	9.5	10.2
117.5°	9.1	10.2	11.8	12.9	12.9	11.8	11.1	9.5	8.4	8.4	8.4
120°	7.2	8.4	9.5	10.7	10.7	10.2	9.1	7.8	6.7	7.2	7.2
122.5°	6.2	6.7	7.8	8.4	9.1	8.4	7.2	6.2	5.6	6.2	6.2
125°	5.1	5.6	6.7	6.7	7.2	6.7	6.2	5.1	4.5	5.1	5.1
127.5°	4.5	5.1	5.6	5.6	6.2	5.6	5.1	4.0	4.0	4.5	4.5
130°	3.4	4.0	4.5	4.5	5.1	4.5	4.0	3.4	3.4	4.0	4.0
132.5°	2.9	3.4	3.4	4.0	4.0	4.0	3.4	2.2	2.9	2.9	2.9
135°	2.9	2.9	3.4	2.9	2.9	2.9	2.2	1.6	2.2	2.2	2.2
137.5°	2.2	2.2	2.9	2.9	2.2	2.2	1.6	1.1	1.6	2.2	2.2
140°	1.6	2.2	2.2	2.2	2.2	1.6	1.1	0.5	1.1	1.1	1.1
142.5°	1.6	1.6	2.2	2.2	1.6	1.1	0.5	0.0	0.5	0.5	0.5
145°	1.1	1.6	1.6	1.6	1.1	1.1	0.5	0.0	0.0	0.5	0.0
147.5°	1.1	1.1	1.6	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0
150°	0.5	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.5	0.5	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)