

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: P254691

Luminaire Tested: **LXF.LXT-AF24-50-D-U-SL3-CL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-26)
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-SL3-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5377.6 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

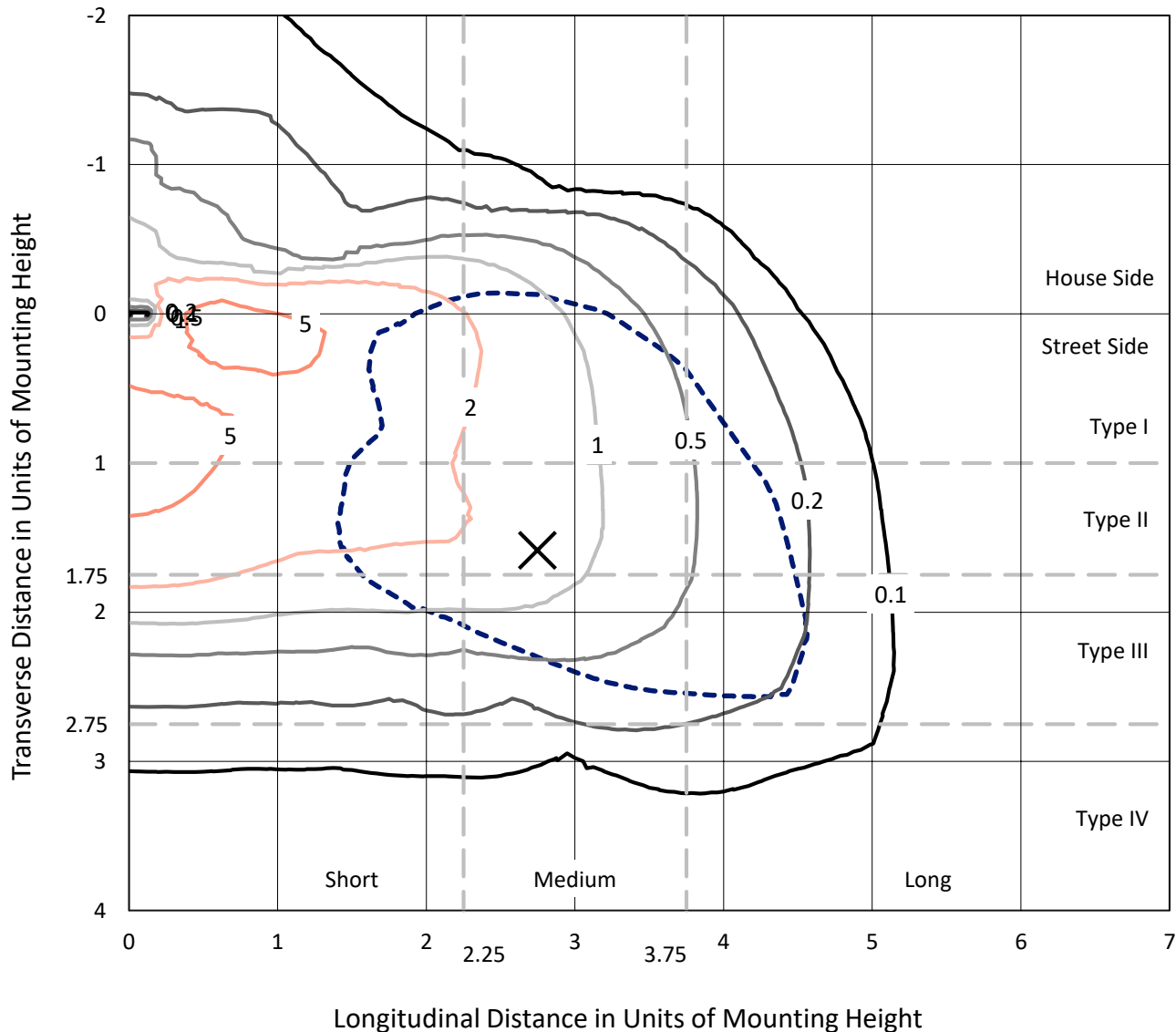
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

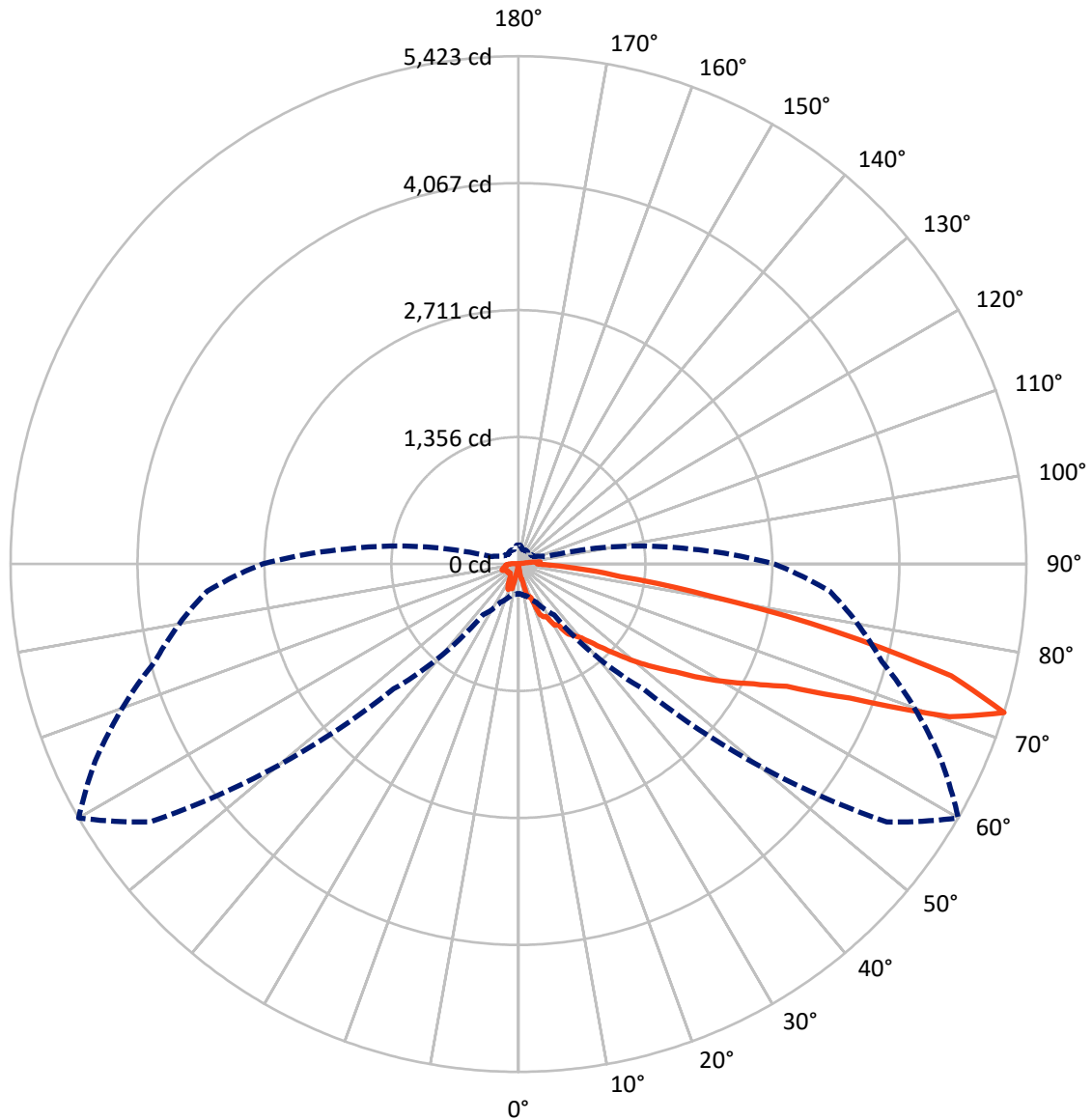
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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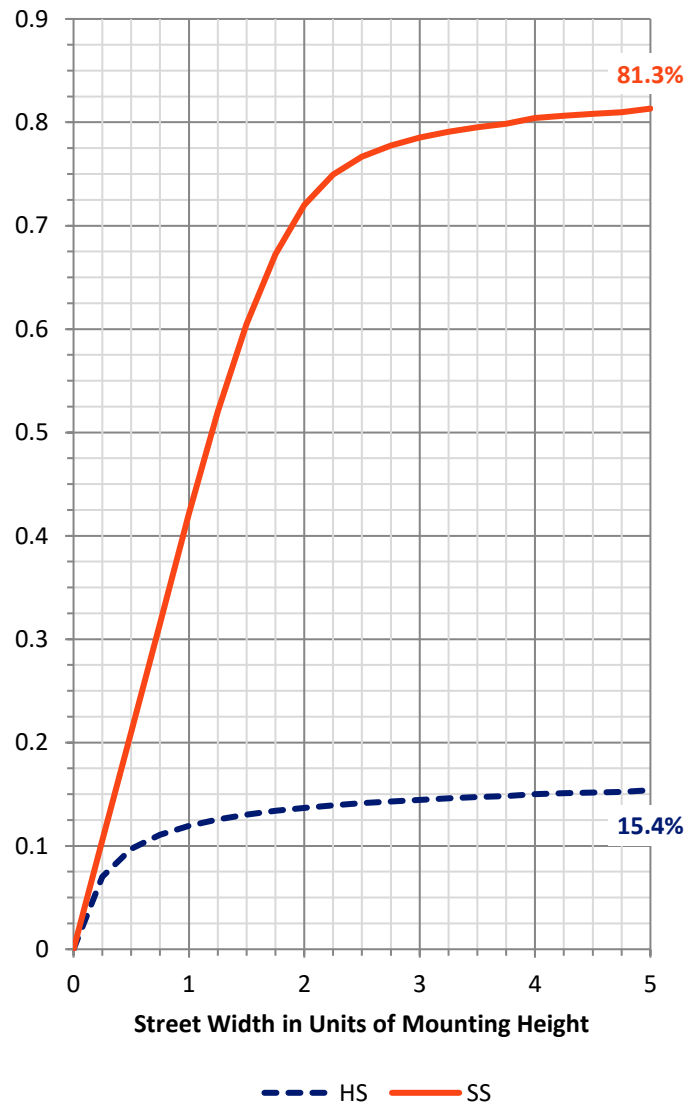
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.6	35.0	907.6
	% Fixture	16.2	0.7	16.9
Street Side	Lumens	4425.2	44.8	4469.9
	% Fixture	82.3	0.8	83.1
Total	Lumens	5297.8	79.8	5377.6
	% Fixture	98.5	1.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	72.1	1.3
20°-30°	211.5	3.9
30°-40°	421.2	7.8
40°-50°	724.1	13.5
50°-60°	1107.8	20.6
60°-70°	1396.4	26.0
70°-80°	1111.5	20.7
80°-90°	247.2	4.6
90°-100°	69.5	1.3
100°-110°	6.8	0.1
110°-120°	1.3	0.0
120°-130°	1.0	0.0
130°-140°	0.4	0.0
140°-150°	0.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5297.8	98.5
0°-180°	5377.6	100.0



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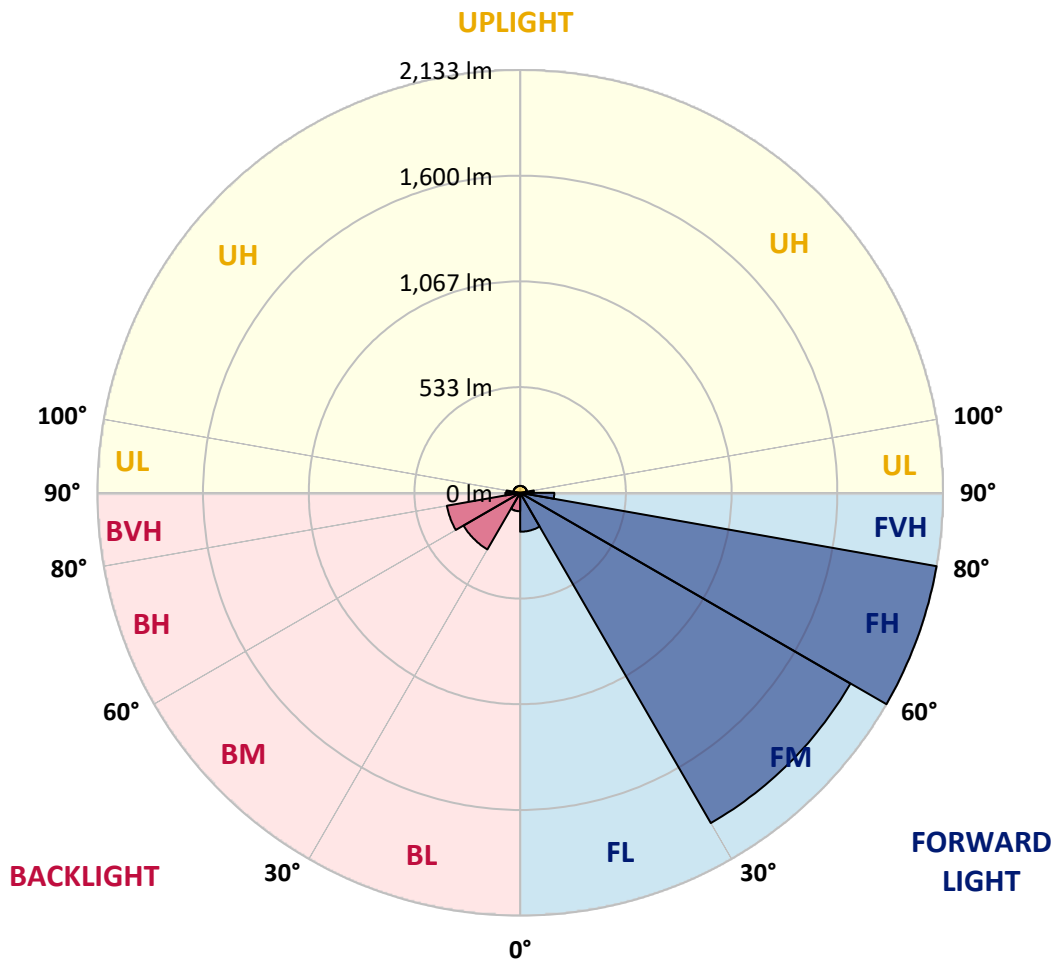
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.4	3.7			
FM	(30°-60°)	1923.8	35.8			
FH	(60°-80°)	2133.0	39.7			G2/5000
FVH	(80°-90°)	172.0	3.2			G2/225
BL	(0°-30°)	93.0	1.7	B0/110		
BM	(30°-60°)	329.4	6.1	B1/1000		
BH	(60°-80°)	375.0	7.0	B1/500		G1/500
BVH	(80°-90°)	75.2	1.4			G1/100
UL	(90°-100°)	69.5	1.3		U3/500	
UH	(100°-180°)	35.0	0.7		U2/50	

BUG Rating: B1-U3-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	2.7	3.3	2.7	3.3	3.3	2.7	1.9	2.7	2.7	2.7	1.9
5°	164.7	166.7	148.8	116.4	22.5	15.9	5.3	3.3	3.3	2.7	2.7
7.5°	166.0	167.4	174.6	172.0	175.3	167.4	58.2	17.2	7.3	3.3	2.7
10°	178.6	178.0	175.9	179.9	179.3	170.7	164.7	157.4	35.7	4.6	4.0
12.5°	344.6	346.0	337.4	272.5	189.9	175.9	170.0	164.7	134.3	96.0	222.9
15°	347.3	345.3	336.0	350.7	345.3	201.7	282.4	360.6	363.1	270.0	310.3
17.5°	365.2	360.6	349.3	339.4	337.4	402.9	379.1	359.3	365.8	314.3	336.0
20°	496.8	492.2	486.2	474.3	361.2	459.8	458.5	383.0	386.4	627.2	611.3
22.5°	504.7	496.8	492.2	485.6	540.5	451.8	543.8	582.9	584.8	665.5	645.0
25°	670.9	668.2	626.5	504.7	539.2	514.0	623.9	625.1	611.9	699.9	768.7
27.5°	743.0	721.8	683.4	660.9	555.1	614.0	622.6	632.5	795.2	948.7	925.6
30°	998.3	970.5	762.8	743.0	657.6	623.2	718.4	756.2	822.4	952.7	958.6
32.5°	1152.5	1114.7	1010.2	925.6	780.0	685.4	768.7	774.1	828.3	1187.5	1212.0
35°	1424.4	1374.7	1131.9	1030.7	910.9	816.3	796.5	920.9	995.0	1239.7	1255.0
37.5°	1477.2	1477.2	1407.8	1228.6	1045.3	916.3	937.4	967.2	1043.3	1335.1	1328.4
40°	1529.5	1535.4	1548.7	1396.5	1190.8	1062.4	1032.1	1036.7	1108.2	1444.2	1415.8
42.5°	1659.2	1654.5	1676.4	1526.2	1386.6	1225.2	1175.0	1149.8	1201.4	1585.1	1526.2
45°	1883.5	1883.5	1866.9	1662.5	1534.8	1387.9	1340.3	1294.0	1312.5	1723.4	1677.7
47.5°	2161.3	2130.2	2042.2	1821.3	1664.4	1540.2	1500.5	1457.4	1466.7	1887.4	1858.3
50°	2369.7	2336.6	2168.6	1936.3	1771.0	1698.9	1679.7	1648.0	1634.7	2043.5	2055.4
52.5°	2414.7	2374.4	2226.1	2007.1	1860.3	1863.0	1882.8	1837.1	1794.2	2211.6	2254.6
55°	2359.7	2337.2	2244.7	2060.7	1944.3	2001.9	2089.2	2031.7	2012.5	2395.5	2447.8
57.5°	2250.6	2241.4	2236.1	2105.7	2001.2	2154.0	2354.5	2290.3	2240.1	2565.6	2587.3
60°	2019.7	2023.1	2083.2	2105.1	2103.8	2314.1	2601.3	2549.6	2453.0	2729.6	2752.8
62.5°	1612.9	1636.0	1794.2	1948.3	2158.6	2558.9	2837.5	2819.6	2715.7	2916.8	2913.5
65°	1018.1	1063.2	1298.0	1646.6	2084.0	2894.3	3219.1	3149.1	3013.4	3133.1	3182.8
67.5°	550.4	566.3	696.6	1084.9	1804.1	3051.8	4046.8	3817.2	3503.6	3479.8	3489.1
70°	397.6	402.2	436.0	599.3	1128.0	2797.8	4777.1	4883.0	4279.6	3852.9	3607.4
72.5°	314.9	323.5	355.9	450.5	664.2	1885.4	4801.6	5422.8	4986.2	4017.0	3336.3
75°	217.0	230.3	287.1	387.7	598.7	941.4	3905.8	4773.2	4813.5	3685.6	2651.5
77.5°	115.8	117.7	130.9	300.3	567.6	679.4	2523.2	3453.4	3445.4	2591.3	1436.2
80°	93.9	95.2	100.6	129.7	486.2	693.4	1354.2	2091.2	1915.9	1006.9	523.3
82.5°	61.5	65.5	80.1	88.0	218.3	668.8	804.4	1095.6	873.9	363.9	328.2
85°	36.4	40.3	58.2	64.9	103.8	780.6	721.8	659.6	504.7	257.4	246.7
87.5°	12.6	12.6	17.2	22.5	34.4	223.6	377.1	301.7	231.6	170.7	203.1
90°	6.6	7.3	4.0	4.0	15.2	68.8	201.7	200.5	157.4	167.4	217.0
92.5°	7.3	7.3	4.0	4.0	15.9	41.0	215.0	230.3	185.9	187.9	234.9
95°	8.0	8.6	3.3	3.3	15.2	28.4	189.2	234.2	181.9	170.0	204.4
97.5°	8.6	9.3	3.3	2.7	9.9	21.8	95.2	133.6	105.2	80.1	89.3
100°	8.0	8.6	1.9	1.9	4.6	14.5	36.4	49.6	45.0	18.5	10.5
102.5°	8.0	8.6	1.9	1.3	1.9	8.0	8.0	18.5	11.3	5.9	8.6
105°	8.0	8.6	1.9	1.3	0.6	4.0	2.7	3.3	4.0	5.3	9.9
107.5°	4.6	5.3	1.3	1.3	0.6	0.6	1.3	1.3	2.7	4.0	8.6
110°	1.9	1.9	0.6	0.6	0.0	0.6	0.6	1.3	2.7	3.3	4.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	2.7	4.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	2.7	4.6
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	2.7	4.6
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	2.7	4.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	2.7	4.6
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	2.7	4.6
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.7	4.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.7	4.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	2.7
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.9
140°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	1.3	1.3	1.9
142.5°	1.3	0.6	0.6	0.6	0.0	0.0	0.6	0.6	1.3	1.9	1.9
145°	1.9	1.3	1.3	0.6	0.0	0.0	0.6	1.3	1.9	1.9	1.9
147.5°	1.9	1.9	1.3	0.6	0.0	0.0	0.6	1.3	1.9	2.7	2.7
150°	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.6	1.3	2.7	2.7
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9	1.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	1.9	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
5°	1.9	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.6	0.6	1.3
7.5°	1.9	1.9	1.9	1.3	1.3	0.6	122.3	142.2	163.4	160.1	155.5
10°	3.3	3.3	3.3	2.7	8.0	146.9	164.7	157.4	154.2	152.8	154.8
12.5°	225.6	266.0	88.7	13.2	130.3	143.5	146.9	138.9	143.5	144.8	141.0
15°	309.6	303.6	279.2	287.1	255.3	138.3	131.7	195.8	195.2	194.5	194.5
17.5°	334.7	318.2	275.9	291.7	255.3	209.7	162.8	155.5	150.2	150.9	149.6
20°	602.7	563.6	436.0	283.8	223.6	224.2	138.3	119.8	150.2	175.3	178.6
22.5°	607.3	569.6	456.4	367.9	223.6	177.3	135.6	141.6	170.0	185.9	188.5
25°	764.1	690.7	448.6	311.0	224.2	144.2	144.2	136.3	154.8	176.7	179.9
27.5°	872.0	786.5	547.1	304.9	168.7	141.0	129.0	130.3	165.4	180.7	181.3
30°	873.3	772.7	514.6	256.0	140.2	122.3	116.4	136.3	144.8	154.8	155.5
32.5°	1135.3	985.1	578.2	205.7	125.0	110.5	117.1	129.7	146.2	170.7	173.3
35°	1135.3	968.5	503.5	189.2	118.5	111.1	120.4	138.9	139.6	158.1	162.0
37.5°	1167.0	967.2	425.3	158.1	123.7	111.1	125.7	130.3	136.3	155.5	156.1
40°	1216.6	981.1	348.0	144.2	122.3	121.0	122.3	128.4	127.1	139.6	140.2
42.5°	1298.6	1012.2	289.1	139.6	121.7	127.1	123.7	121.7	114.5	150.2	150.9
45°	1419.0	1083.0	246.1	139.6	122.3	135.6	127.7	117.7	110.5	181.3	186.6
47.5°	1560.6	1171.6	226.3	142.9	125.0	137.6	121.7	117.7	117.7	196.5	199.2
50°	1730.0	1273.5	217.0	145.6	133.6	136.3	125.7	125.0	130.3	182.6	181.9
52.5°	1909.2	1399.2	215.6	149.6	139.6	130.9	142.2	133.6	116.4	133.6	133.6
55°	2087.2	1554.0	213.7	150.9	136.3	134.3	145.6	119.1	99.2	108.5	109.9
57.5°	2258.6	1701.6	221.7	145.6	135.6	134.3	138.9	119.1	102.5	111.1	113.8
60°	2433.2	1866.3	268.6	137.6	138.3	130.9	138.3	129.0	113.1	134.3	137.0
62.5°	2644.9	2093.2	365.8	144.8	140.2	133.0	137.6	137.0	117.7	128.4	130.9
65°	2947.9	2345.9	423.4	170.7	146.2	138.9	137.6	148.2	131.7	125.0	125.7
67.5°	3155.6	2437.9	410.8	192.5	160.8	142.9	148.8	159.5	141.0	142.2	141.6
70°	3118.0	2274.4	357.2	203.1	170.0	146.9	160.8	158.8	148.2	168.7	167.4
72.5°	2732.2	1843.8	303.0	186.6	167.4	148.2	163.4	162.8	160.8	202.4	202.4
75°	2035.0	1237.2	262.6	171.3	160.1	146.9	160.1	161.4	160.1	207.0	208.4
77.5°	998.9	617.9	222.9	154.2	148.2	150.2	158.1	158.8	156.8	201.1	201.1
80°	446.5	338.7	170.0	129.7	142.9	158.1	158.8	152.8	155.5	190.6	189.9
82.5°	309.6	243.5	111.1	113.8	160.1	171.3	162.0	149.6	147.5	174.0	171.3
85°	224.9	179.3	68.1	96.6	175.3	162.0	153.4	134.9	129.0	147.5	144.2
87.5°	181.3	142.9	41.6	80.7	160.1	142.2	127.7	111.1	103.2	113.8	108.5
90°	195.8	154.2	41.6	70.2	131.7	106.5	93.9	82.7	74.8	75.4	72.1
92.5°	211.0	164.1	44.3	58.2	97.3	61.5	62.8	57.6	45.6	41.0	37.0
95°	162.8	123.1	39.1	48.3	58.2	37.7	48.3	43.7	31.1	21.8	18.5
97.5°	72.1	58.2	35.1	38.4	41.0	31.1	41.0	35.1	18.5	10.5	9.3
100°	8.6	14.5	30.4	37.0	29.8	21.2	27.1	21.2	8.0	2.7	1.9
102.5°	9.3	6.6	13.2	33.0	17.2	6.6	8.0	8.0	3.3	1.3	1.3
105°	9.9	7.3	5.3	17.2	4.0	1.3	0.6	0.6	0.6	1.3	1.3
107.5°	9.3	6.6	3.3	2.7	1.9	1.3	0.0	0.0	0.0	1.3	1.9
110°	5.3	4.6	3.3	2.7	1.9	1.3	0.0	0.0	0.0	1.9	2.7



REPORT NUMBER: P254691

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	4.0	4.0	2.7	1.9	1.3	0.6	0.0	0.0	0.0	2.7	3.3
115°	4.6	4.0	2.7	1.9	1.3	0.6	0.0	0.0	0.0	3.3	4.0
117.5°	5.3	4.6	2.7	1.9	1.3	0.0	0.0	0.0	0.0	4.0	4.0
120°	5.3	4.6	2.7	1.9	0.6	0.0	0.0	0.0	0.0	3.3	4.0
122.5°	5.3	4.6	2.7	1.3	0.6	0.0	0.0	0.0	0.0	3.3	4.0
125°	4.6	4.6	2.7	1.3	0.6	0.0	0.0	0.0	0.0	3.3	3.3
127.5°	4.6	4.0	2.7	1.3	0.6	0.0	0.0	0.0	0.0	2.7	3.3
130°	4.0	4.0	1.9	1.3	0.6	0.0	0.0	0.0	0.0	1.9	2.7
132.5°	3.3	2.7	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.6	1.3
135°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.9	1.9	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.7	2.7	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.7	2.7	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	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)