

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: P254415

Luminaire Tested: **LXF.LXT-AF24-80-D-U-SL3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-80-D-U-SL3-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7080 lumens
Efficiency: N/A
Efficacy: 85.3 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: B2 - U3 - G3

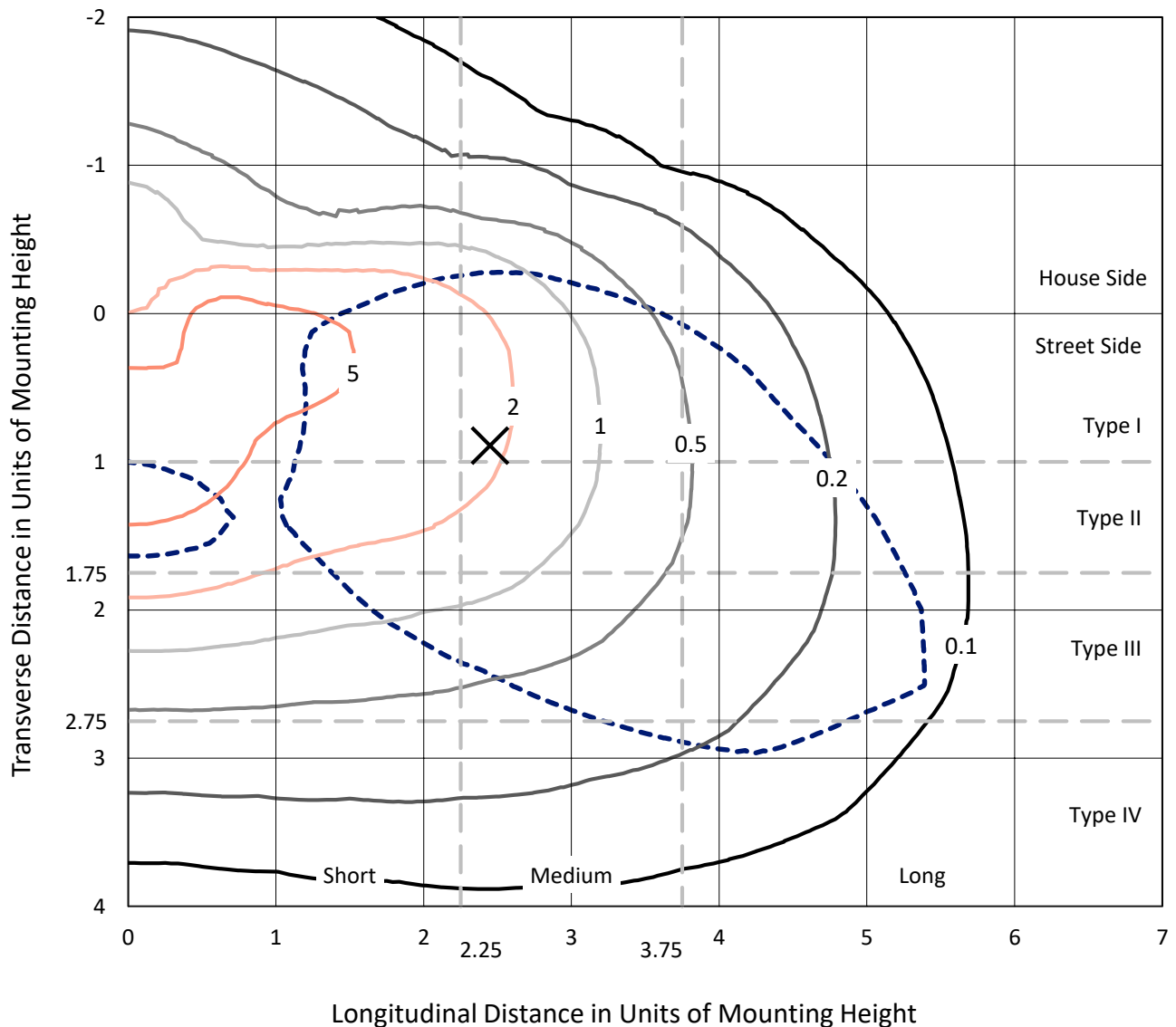
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

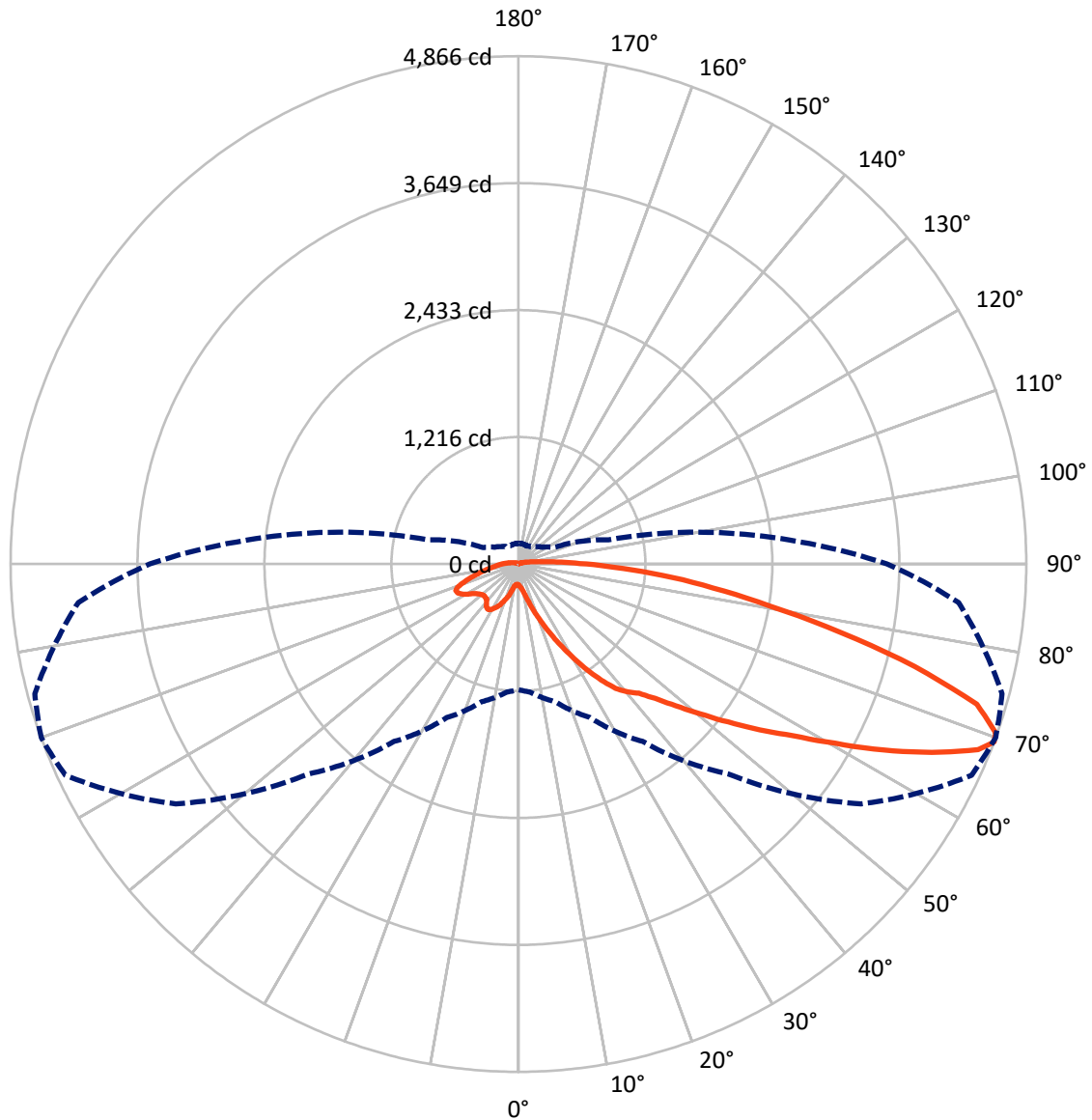


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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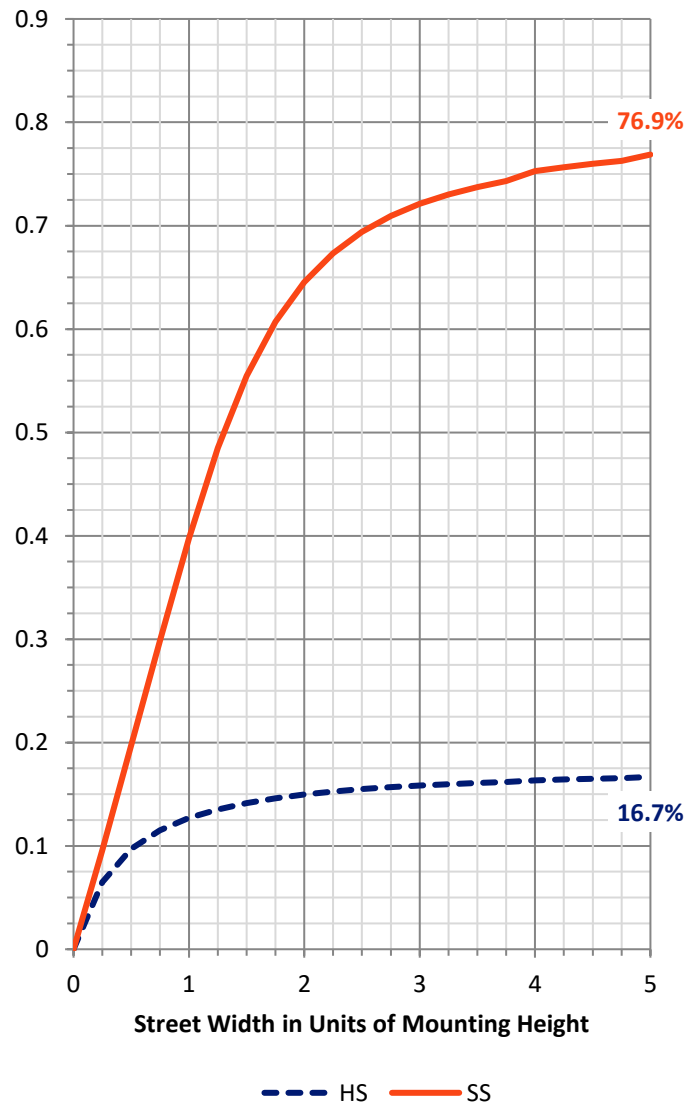
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1231.5	97.2	1328.7
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	5591.1	160.2	5751.3
	% Fixture	79.0	2.3	81.2
Total	Lumens	6822.6	257.4	7080.0
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	0.3
10°-20°	90.9	1.3
20°-30°	252.9	3.6
30°-40°	534.3	7.5
40°-50°	896.5	12.7
50°-60°	1351.5	19.1
60°-70°	1758.6	24.8
70°-80°	1375.2	19.4
80°-90°	541.7	7.7
90°-100°	160.7	2.3
100°-110°	52.6	0.7
110°-120°	22.6	0.3
120°-130°	12.2	0.2
130°-140°	6.5	0.1
140°-150°	2.3	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6822.6	96.4
0°-180°	7080.0	100.0

Coefficient of Utilization



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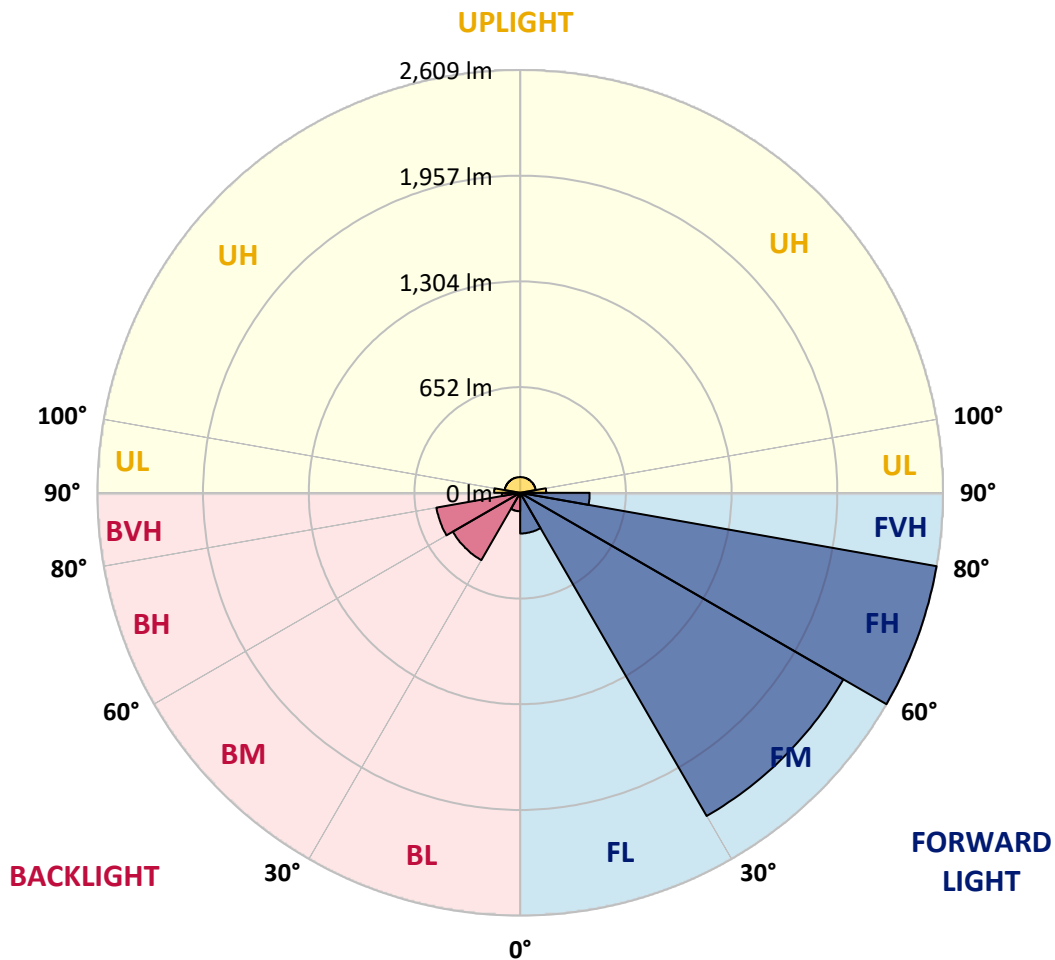
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	251.0	3.5			
FM	(30°-60°)	2302.6	32.5			
FH	(60°-80°)	2609.0	36.8			G2/5000
FVH	(80°-90°)	428.6	6.1			G3/500
BL	(0°-30°)	113.8	1.6	B1/500		
BM	(30°-60°)	479.7	6.8	B1/1000		
BH	(60°-80°)	524.8	7.4	B2/1000		G2/1000
BVH	(80°-90°)	113.2	1.6			G2/225
UL	(90°-100°)	160.7	2.3		U3/500	
UH	(100°-180°)	97.2	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0
2.5°	225.9	225.9	226.8	225.9	225.1	221.5	218.0	213.5	211.8	210.0	205.5
5°	251.7	251.7	250.7	249.0	247.2	241.0	235.7	228.6	225.1	221.5	213.5
7.5°	282.7	281.8	280.9	277.3	273.8	265.8	257.9	249.0	243.6	239.2	228.6
10°	319.8	318.9	318.1	311.8	306.6	297.7	289.7	278.2	273.8	267.5	252.5
12.5°	367.6	370.4	365.0	355.3	348.2	335.8	330.5	322.6	317.2	314.5	298.6
15°	428.0	429.7	422.7	406.7	396.9	384.5	386.2	387.3	384.5	384.5	365.0
17.5°	500.6	497.0	491.6	468.7	453.7	448.3	456.2	464.3	466.0	468.7	448.3
20°	591.8	593.6	577.7	544.0	520.1	521.8	531.5	546.7	553.7	560.0	538.6
22.5°	716.7	702.5	684.0	636.1	603.3	596.2	611.3	640.6	652.1	668.0	647.7
25°	850.6	836.4	803.6	748.7	699.0	677.7	702.5	753.2	772.6	799.1	781.4
27.5°	993.1	981.7	932.1	873.5	806.3	769.0	801.9	870.0	901.1	934.7	915.1
30°	1146.4	1133.1	1074.7	1005.6	920.5	873.5	899.3	997.6	1049.0	1095.1	1086.2
32.5°	1328.9	1311.2	1239.4	1151.8	1040.1	984.3	1011.7	1145.6	1210.3	1269.6	1257.2
35°	1532.7	1523.8	1428.2	1316.6	1179.2	1100.4	1138.5	1283.8	1365.3	1428.2	1411.3
37.5°	1766.6	1756.1	1647.0	1499.0	1324.5	1225.4	1253.6	1416.6	1511.5	1577.9	1540.7
40°	1984.5	1974.0	1865.8	1692.2	1476.0	1356.5	1380.4	1525.7	1611.6	1665.6	1597.4
42.5°	2217.6	2197.2	2076.7	1876.5	1637.2	1495.5	1490.2	1609.0	1691.4	1761.3	1690.5
45°	2423.2	2417.8	2288.4	2059.0	1799.4	1632.0	1597.4	1729.5	1837.5	1931.3	1858.7
47.5°	2552.6	2545.4	2450.5	2222.0	1941.2	1764.9	1740.1	1901.3	2028.0	2129.9	2045.7
50°	2621.5	2619.0	2551.6	2346.1	2082.9	1911.1	1928.8	2111.2	2253.9	2381.6	2291.1
52.5°	2651.7	2651.7	2599.4	2434.7	2208.6	2078.4	2145.0	2354.0	2514.4	2651.7	2531.2
55°	2648.1	2649.1	2595.0	2455.9	2308.8	2253.9	2391.2	2641.2	2803.3	2951.2	2810.2
57.5°	2536.6	2543.7	2532.1	2441.7	2362.8	2432.0	2674.7	2949.5	3101.8	3241.7	3084.1
60°	2268.1	2286.7	2327.4	2345.1	2375.3	2601.3	2969.7	3297.6	3486.3	3657.4	3528.0
62.5°	2008.5	2024.5	2081.2	2158.2	2341.7	2729.8	3297.6	3775.1	3925.8	4089.7	3849.5
65°	1693.1	1717.9	1828.7	1974.9	2260.1	2820.1	3659.1	4222.6	4351.9	4430.8	4133.1
67.5°	1375.9	1398.9	1531.9	1764.9	2153.8	2872.3	3925.8	4621.2	4748.9	4756.8	4314.6
69°	1204.0	1229.7	1366.2	1623.0	2075.0	2844.0	4007.3	4789.6	4865.8	4796.7	4233.1
70°	1111.9	1111.9	1263.4	1525.7	2005.9	2791.7	4020.5	4802.0	4851.5	4749.7	4147.3
72.5°	806.3	815.1	973.7	1279.3	1785.2	2580.8	3798.2	4563.6	4591.9	4318.3	3573.1
75°	552.9	561.7	701.7	994.0	1499.9	2246.0	3350.8	3947.0	3922.2	3621.0	2889.2
77.5°	382.7	389.0	495.3	724.7	1186.3	1858.7	2792.5	3226.8	3165.6	2883.8	2161.8
80°	268.4	274.7	356.1	538.6	900.2	1462.8	2214.0	2527.7	2439.1	2188.4	1587.6
82.5°	188.7	194.1	261.3	407.5	682.3	1138.5	1746.3	1966.0	1878.2	1656.0	1134.8
85°	134.7	138.2	189.6	310.1	522.7	848.7	1325.5	1473.4	1383.9	1178.4	754.0
87.5°	97.5	100.9	140.0	234.0	405.0	660.0	979.8	1042.8	917.9	746.0	476.7
90°	73.5	76.2	105.4	175.5	315.4	484.7	701.7	679.6	588.3	470.5	318.1
92.5°	54.9	56.7	80.7	132.9	241.9	376.5	487.3	442.9	366.8	297.7	217.1
95°	40.8	42.5	61.1	100.1	178.9	270.2	318.1	273.8	228.6	188.7	147.9
97.5°	31.0	32.8	47.8	76.2	129.4	190.4	205.5	174.5	151.6	129.4	105.4
100°	24.8	25.6	37.2	58.5	93.0	130.2	141.7	121.4	106.3	94.8	79.8
102.5°	19.4	21.3	30.1	46.1	70.9	96.5	102.8	88.6	78.8	70.9	63.0
105°	16.8	17.7	24.8	37.2	55.8	72.6	78.0	66.4	58.5	53.2	48.7
107.5°	15.1	15.1	21.3	31.0	45.3	57.6	60.2	49.6	43.3	39.9	37.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	13.3	13.3	18.6	26.6	38.1	47.8	47.0	37.2	32.8	29.3	29.3
112.5°	12.4	12.4	16.0	23.9	32.8	39.9	37.2	29.3	25.6	22.2	23.9
115°	11.5	11.5	15.1	21.3	29.3	33.7	31.0	23.1	19.4	17.7	19.4
117.5°	11.5	11.5	14.2	19.4	26.6	29.3	26.6	19.4	16.0	15.1	16.8
120°	11.5	11.5	14.2	18.6	23.9	25.6	22.2	16.0	14.2	12.4	15.1
122.5°	11.5	11.5	13.3	17.7	22.2	23.1	19.4	14.2	11.5	11.5	13.3
125°	12.4	12.4	14.2	17.7	20.4	20.4	16.8	12.4	10.6	10.6	13.3
127.5°	13.3	13.3	14.2	16.8	18.6	17.7	15.1	11.5	10.6	10.6	12.4
130°	14.2	14.2	15.1	16.0	16.8	15.1	12.4	10.6	9.8	10.6	12.4
132.5°	14.2	14.2	14.2	15.1	15.1	13.3	10.6	8.8	8.8	9.8	11.5
135°	13.3	13.3	13.3	13.3	13.3	10.6	8.8	7.9	7.9	8.8	10.6
137.5°	11.5	11.5	10.6	10.6	10.6	8.8	7.1	6.2	6.2	7.1	8.8
140°	8.8	8.8	8.8	8.8	8.8	7.1	5.4	4.5	5.4	6.2	7.1
142.5°	7.1	7.1	7.1	7.1	7.1	5.4	3.5	4.5	5.4	5.4	6.2
145°	6.2	5.4	5.4	5.4	5.4	3.5	2.6	3.5	4.5	5.4	5.4
147.5°	4.5	4.5	4.5	4.5	3.5	1.7	1.7	3.5	3.5	4.5	5.4
150°	2.6	2.6	2.6	2.6	1.7	0.9	1.7	2.6	3.5	3.5	4.5
152.5°	0.9	0.9	1.7	1.7	0.9	0.0	0.9	1.7	2.6	2.6	3.5
155°	0.0	0.0	0.9	1.7	0.0	0.0	0.9	1.7	1.7	2.6	2.6
157.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	1.7	1.7	2.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0
2.5°	202.9	201.1	197.5	194.9	191.4	188.7	188.7	186.1	186.1	185.2	184.3
5°	210.0	207.3	198.5	192.3	186.1	180.8	177.2	174.5	171.9	170.1	169.3
7.5°	223.2	217.1	204.7	194.1	183.4	175.5	168.4	163.9	160.4	159.5	157.7
10°	245.4	238.3	218.8	201.1	185.2	171.9	163.1	156.8	153.3	152.4	151.6
12.5°	288.8	278.2	249.8	220.6	190.4	170.1	158.5	157.7	158.5	160.4	161.2
15°	351.7	340.3	296.7	250.7	204.7	172.7	166.5	168.4	171.0	173.6	173.6
17.5°	428.9	409.2	350.8	284.4	222.4	188.7	174.5	176.4	181.6	186.1	186.1
20°	514.7	483.7	401.3	309.2	239.2	199.4	182.5	183.4	191.4	196.6	197.5
22.5°	619.3	572.3	454.5	329.6	249.0	203.8	187.8	188.7	201.1	210.0	210.9
25°	737.2	676.0	515.6	351.7	252.5	202.0	190.4	196.6	216.3	231.2	232.1
27.5°	855.0	770.9	562.5	366.8	249.8	196.6	192.3	205.5	229.5	243.6	245.4
30°	1007.4	901.9	614.9	373.0	241.0	191.4	192.3	209.1	229.5	243.6	244.5
32.5°	1158.8	1015.3	657.4	377.4	231.2	187.0	189.6	204.7	224.2	240.2	241.0
35°	1287.3	1105.7	676.0	368.5	222.4	184.3	185.2	200.3	222.4	241.9	242.8
37.5°	1382.1	1164.1	674.2	347.3	211.8	181.6	182.5	199.4	224.2	245.4	248.0
40°	1414.1	1167.8	640.6	316.3	204.7	180.8	183.4	199.4	222.4	240.2	242.8
42.5°	1488.4	1198.7	617.6	288.8	199.4	182.5	186.1	196.6	213.5	230.3	234.0
45°	1621.3	1282.9	623.8	275.6	198.5	187.0	187.8	194.1	205.5	221.5	225.9
47.5°	1764.9	1368.8	626.4	268.4	202.9	191.4	190.4	191.4	197.5	210.9	215.2
50°	1963.3	1498.2	640.6	267.5	210.0	196.6	193.2	189.6	194.1	210.0	214.3
52.5°	2167.9	1635.5	663.6	272.9	220.6	203.8	196.6	190.4	194.1	208.2	214.3
55°	2396.6	1806.5	697.3	283.5	231.2	211.8	201.1	193.2	193.2	205.5	210.9
57.5°	2649.1	1982.8	741.6	297.7	242.8	220.6	204.7	194.1	192.3	200.3	204.7
60°	3041.6	2278.7	819.6	318.1	254.2	227.7	207.3	194.9	193.2	199.4	202.0
62.5°	3302.1	2484.2	886.8	338.4	265.0	234.0	208.2	194.9	194.9	198.5	200.3
65°	3549.2	2664.1	932.1	357.1	274.7	237.4	208.2	194.1	194.9	197.5	197.5
67.5°	3632.5	2709.3	934.7	370.4	280.9	237.4	206.4	193.2	195.8	198.5	197.5
69°	3532.4	2615.3	894.9	371.3	280.9	234.8	204.7	191.4	195.8	198.5	197.5
70°	3437.7	2534.9	861.2	367.6	278.2	232.1	202.0	190.4	194.9	197.5	196.6
72.5°	2903.3	2095.4	729.2	349.9	268.4	223.2	194.1	184.3	190.4	194.1	192.3
75°	2313.2	1651.5	594.5	318.9	251.7	209.1	183.4	174.5	181.6	185.2	182.5
77.5°	1724.1	1222.6	475.8	287.9	233.0	196.6	171.9	162.1	167.5	169.3	166.5
80°	1251.0	887.7	381.9	259.6	216.3	184.3	160.4	149.6	154.2	154.2	150.7
82.5°	884.2	630.9	308.3	231.2	198.5	173.6	150.7	139.1	145.4	144.4	140.8
85°	592.7	437.7	252.5	200.3	178.1	159.5	140.0	131.1	138.2	137.3	133.8
87.5°	392.5	312.7	211.8	173.6	155.9	141.7	127.7	121.4	128.5	126.7	122.3
90°	278.2	236.5	178.9	149.6	133.8	123.1	113.4	108.9	113.4	110.0	105.4
92.5°	200.3	177.2	147.1	125.7	111.7	104.6	98.4	94.8	97.5	92.1	88.6
95°	141.7	130.2	117.8	103.7	93.0	86.9	83.2	81.5	83.2	75.3	72.6
97.5°	103.7	98.4	93.0	86.0	77.0	73.5	70.9	69.1	69.1	61.1	59.3
100°	80.7	78.0	76.2	71.8	64.7	62.1	60.2	59.3	57.6	50.5	48.7
102.5°	64.7	63.8	63.8	59.3	54.1	52.2	50.5	49.6	47.8	41.6	39.9
105°	51.4	51.4	52.2	48.7	45.3	43.3	42.5	40.8	39.0	34.5	34.5
107.5°	40.8	40.8	42.5	39.9	38.1	36.3	35.4	33.7	31.9	29.3	29.3



REPORT NUMBER: P254415

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.9	32.8	35.4	33.7	31.9	31.0	30.1	27.5	25.6	24.8	24.8
112.5°	25.6	27.5	29.3	28.3	26.6	26.6	24.8	23.1	21.3	21.3	21.3
115°	22.2	23.1	24.8	23.9	23.1	22.2	21.3	18.6	17.7	17.7	18.6
117.5°	18.6	19.4	21.3	20.4	19.4	19.4	17.7	16.0	14.2	16.0	16.0
120°	16.0	16.8	17.7	17.7	16.8	16.8	15.1	13.3	11.5	13.3	13.3
122.5°	15.1	15.1	16.0	15.1	15.1	14.2	12.4	10.6	9.8	11.5	11.5
125°	14.2	14.2	14.2	13.3	13.3	12.4	10.6	8.8	7.9	9.8	9.8
127.5°	13.3	13.3	13.3	12.4	10.6	9.8	8.8	7.1	6.2	7.9	7.9
130°	13.3	13.3	11.5	10.6	9.8	7.9	7.1	5.4	5.4	7.1	7.1
132.5°	12.4	11.5	10.6	8.8	7.9	6.2	5.4	4.5	4.5	5.4	6.2
135°	10.6	10.6	8.8	7.1	6.2	4.5	4.5	2.6	3.5	4.5	4.5
137.5°	8.8	8.8	7.9	6.2	4.5	3.5	2.6	1.7	2.6	3.5	3.5
140°	7.9	7.1	6.2	5.4	3.5	1.7	1.7	0.9	1.7	1.7	2.6
142.5°	7.1	7.1	6.2	4.5	2.6	1.7	0.0	0.9	0.9	0.9	1.7
145°	6.2	6.2	5.4	3.5	2.6	0.9	0.0	0.9	0.9	0.9	0.0
147.5°	5.4	5.4	4.5	3.5	1.7	0.0	0.0	0.0	0.9	0.0	0.0
150°	4.5	4.5	3.5	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.6	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	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)