

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: P254307

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)
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-T3-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7360.8 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

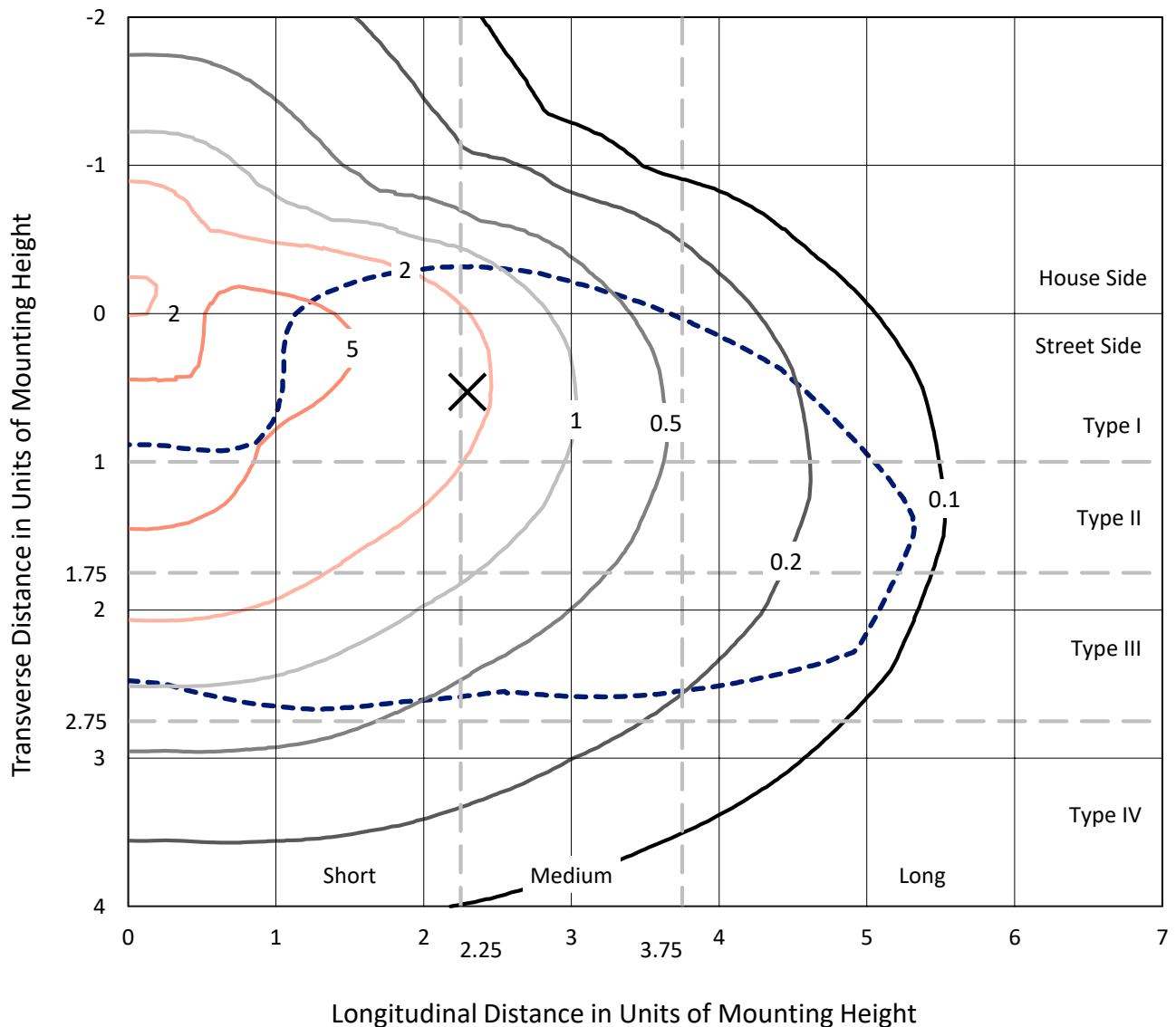
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

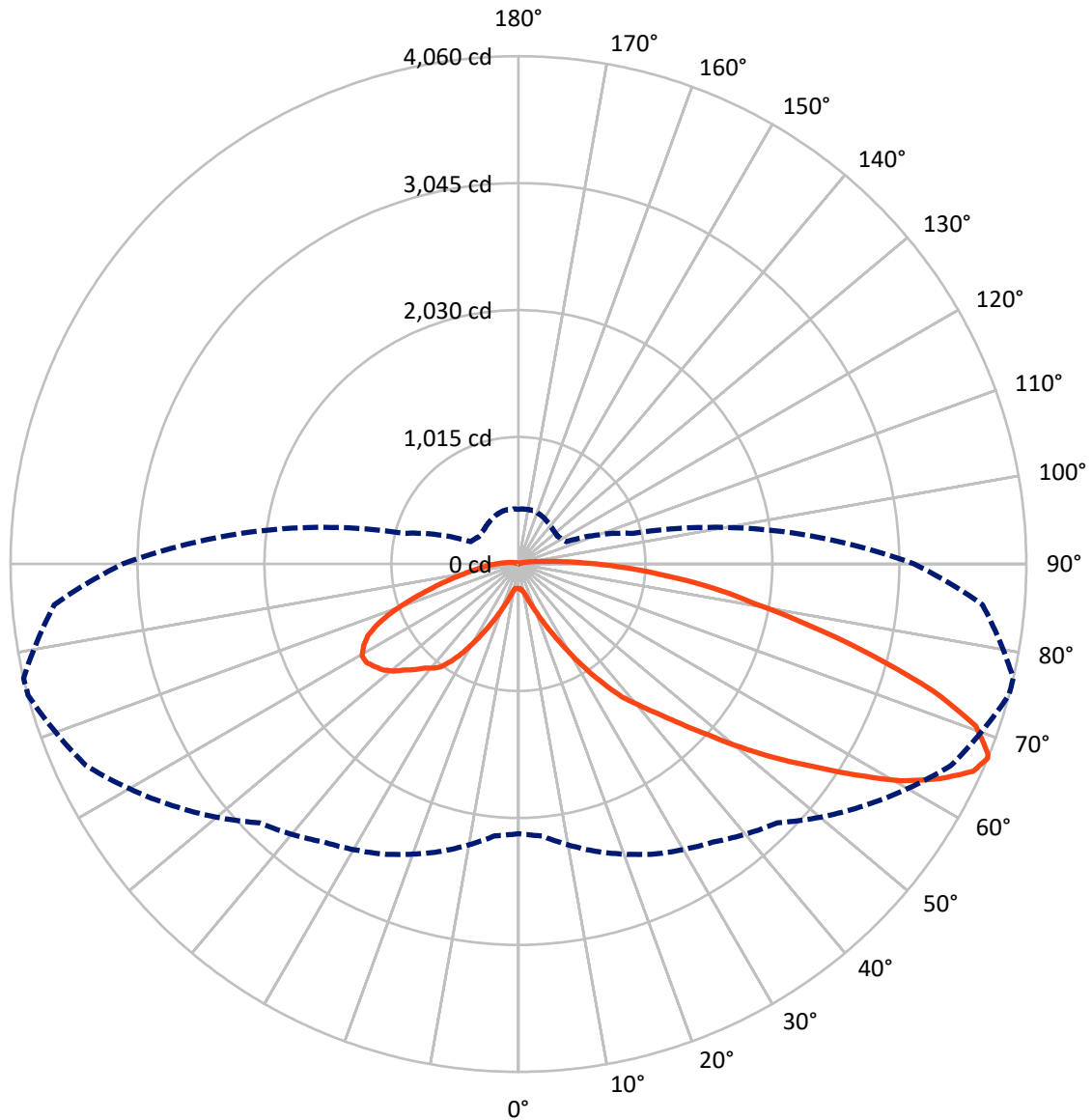
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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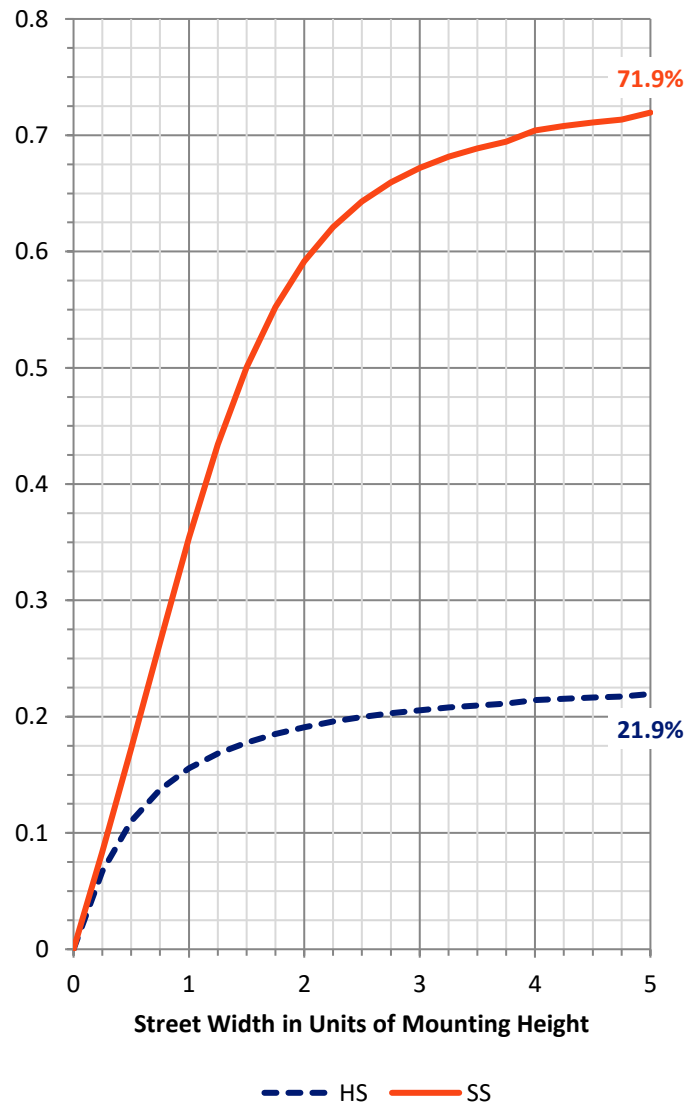
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.8	107.3	1795.1
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	5426.0	139.7	5565.7
	% Fixture	73.7	1.9	75.6
Total	Lumens	7113.8	247.0	7360.8
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	0.3
10°-20°	82.7	1.1
20°-30°	241.7	3.3
30°-40°	561.7	7.6
40°-50°	985.3	13.4
50°-60°	1514.1	20.6
60°-70°	1872.4	25.4
70°-80°	1307.1	17.8
80°-90°	529.1	7.2
90°-100°	156.3	2.1
100°-110°	50.5	0.7
110°-120°	21.4	0.3
120°-130°	11.1	0.2
130°-140°	5.7	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7113.8	96.6
0°-180°	7360.8	100.0



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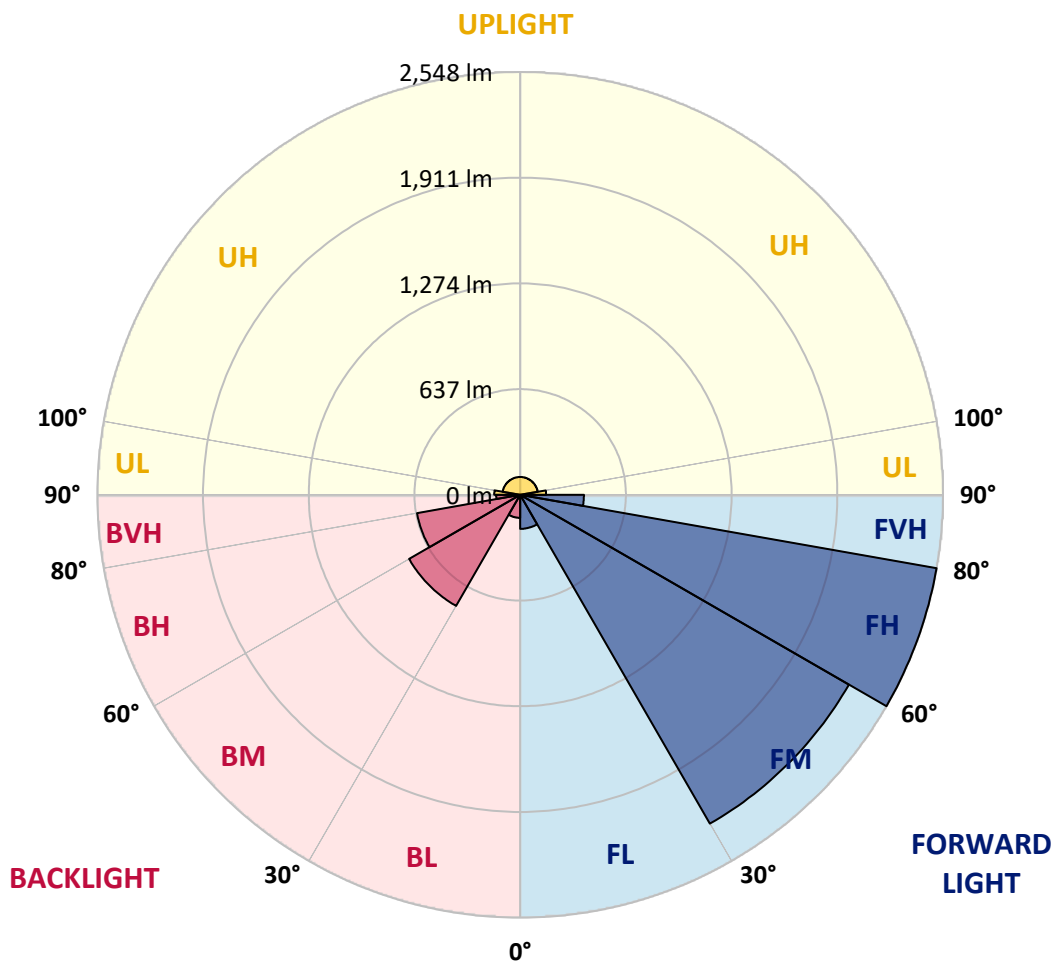
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.2	2.8			
FM	(30°-60°)	2288.1	31.1			
FH	(60°-80°)	2548.4	34.6			G2/5000
FVH	(80°-90°)	384.3	5.2			G3/500
BL	(0°-30°)	138.9	1.9	B1/500		
BM	(30°-60°)	773.0	10.5	B1/1000		
BH	(60°-80°)	631.2	8.6	B2/1000		G2/1000
BVH	(80°-90°)	144.7	2.0			G2/225
UL	(90°-100°)	156.3	2.1		U3/500	
UH	(100°-180°)	107.3	1.5		U3/500	

BUG Rating: B2-U3-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	208.2	209.1	209.1	209.1	208.2	206.4	203.8	202.0	199.4	198.6	196.6
5°	224.2	224.2	224.2	223.3	221.5	218.0	214.3	210.0	204.7	203.8	200.3
7.5°	241.9	242.8	241.9	240.2	235.7	232.1	226.8	220.6	214.3	212.6	208.2
10°	267.5	267.5	265.8	262.2	256.1	249.0	242.8	235.7	229.5	227.7	222.4
12.5°	306.6	306.6	302.9	293.3	283.5	273.8	266.7	261.3	257.9	255.2	251.7
15°	356.1	357.1	351.7	336.7	324.3	309.2	302.9	302.1	301.2	298.6	295.0
17.5°	416.4	416.4	407.5	387.3	371.3	357.1	350.8	350.8	350.8	350.8	349.1
20°	488.2	489.1	477.6	448.3	431.5	414.6	408.4	409.4	412.9	413.8	413.8
22.5°	580.3	583.9	566.2	526.3	505.9	481.1	476.7	481.1	490.9	493.6	497.9
25°	706.2	700.9	677.9	625.5	595.5	565.3	558.2	570.6	589.2	594.5	604.3
27.5°	838.2	839.1	806.4	742.5	691.9	655.7	652.2	677.0	703.5	710.6	726.6
30°	1006.5	1008.4	958.6	879.9	804.4	758.5	758.5	799.2	839.9	851.4	877.2
32.5°	1208.5	1206.8	1133.2	1038.4	933.8	877.2	879.0	938.3	996.8	1010.1	1034.0
35°	1443.4	1440.7	1343.3	1218.2	1079.2	1005.6	1013.6	1088.9	1164.2	1176.6	1214.8
37.5°	1683.4	1686.1	1578.0	1419.4	1239.5	1143.0	1158.0	1247.5	1339.6	1348.6	1378.7
40°	1900.6	1913.7	1804.9	1627.6	1413.3	1287.4	1305.1	1391.1	1481.4	1485.0	1496.6
42.5°	2108.7	2110.6	2019.2	1830.5	1593.1	1446.9	1448.7	1531.0	1617.0	1632.2	1637.4
45°	2241.7	2260.2	2186.8	2016.6	1774.7	1609.9	1594.8	1677.2	1804.0	1821.7	1821.7
47.5°	2393.3	2412.7	2328.6	2184.1	1950.2	1773.9	1761.5	1866.9	2018.3	2037.0	2029.9
50°	2563.3	2587.3	2526.1	2369.3	2124.6	1948.4	1969.6	2092.8	2276.2	2302.7	2294.8
52.5°	2692.7	2718.4	2681.1	2570.4	2320.5	2152.2	2175.3	2347.1	2550.0	2576.6	2546.4
55°	2740.4	2776.0	2787.4	2730.7	2522.6	2368.4	2439.2	2625.3	2824.7	2853.0	2821.1
57.5°	2738.7	2775.0	2819.3	2811.3	2691.7	2590.7	2694.5	2911.5	3152.4	3180.9	3148.1
60°	2719.3	2761.7	2843.3	2853.9	2786.5	2786.5	2954.1	3252.6	3493.6	3519.3	3425.4
62.5°	2550.0	2603.2	2752.0	2859.2	2838.9	2912.5	3191.5	3535.3	3768.3	3780.7	3604.4
65°	2338.2	2387.9	2551.8	2725.5	2822.0	2956.7	3346.5	3736.3	3980.1	3994.2	3740.8
67°	2154.8	2181.4	2377.3	2558.9	2713.0	2926.5	3370.4	3813.4	4057.2	4059.7	3724.0
67.5°	2089.2	2116.7	2316.1	2510.1	2674.8	2905.3	3358.1	3820.6	4052.8	4047.4	3692.1
70°	1745.5	1761.5	1969.6	2219.5	2404.7	2675.8	3203.9	3683.2	3896.7	3880.8	3474.1
72.5°	1290.1	1303.4	1519.6	1823.4	2042.3	2340.9	2869.8	3390.9	3509.5	3466.1	2991.2
75°	894.0	904.6	1073.0	1332.6	1619.7	1935.1	2453.4	2885.7	2973.5	2919.5	2479.1
77.5°	591.0	599.0	730.1	934.7	1198.8	1547.0	1996.2	2384.2	2455.2	2392.2	1990.9
80°	374.8	381.0	478.4	639.7	879.0	1213.9	1602.9	1939.6	1969.6	1910.3	1555.9
82.5°	237.4	243.6	309.2	433.3	630.9	924.2	1260.9	1563.0	1603.7	1568.3	1216.5
85°	152.4	161.2	208.2	296.8	447.4	677.9	982.6	1243.2	1238.7	1180.2	893.0
87.5°	108.0	115.2	150.7	211.8	315.4	480.2	718.6	901.9	891.3	852.3	621.1
90°	80.7	86.0	111.7	154.2	226.8	336.7	497.9	624.6	593.6	569.7	410.3
92.5°	59.3	63.8	83.2	112.5	162.1	235.7	328.8	404.0	372.1	355.3	259.6
95°	43.3	46.1	61.1	82.4	117.9	163.9	215.3	254.2	228.6	217.1	163.9
97.5°	33.7	35.4	47.0	63.8	87.7	117.9	145.4	159.5	145.4	138.2	113.4
100°	28.4	29.3	39.0	50.5	69.2	89.5	103.7	108.9	100.1	95.7	82.4
102.5°	23.9	24.8	31.9	41.6	55.8	70.9	78.0	79.8	71.8	69.2	62.1
105°	20.4	21.3	27.5	35.4	47.0	57.6	61.1	59.3	52.2	50.5	47.0
107.5°	17.7	18.6	23.1	30.1	39.0	47.8	48.7	45.3	39.0	37.2	35.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	16.0	16.0	20.4	25.6	33.7	39.9	39.9	34.5	29.3	28.4	28.4
112.5°	14.2	14.2	17.7	22.2	29.3	33.7	32.8	27.5	22.2	21.3	22.2
115°	12.4	12.4	15.1	20.4	25.6	29.3	27.5	22.2	16.8	16.8	18.6
117.5°	11.5	11.5	14.2	18.6	23.1	25.6	23.1	17.7	14.2	14.2	15.1
120°	10.6	10.6	13.3	16.8	21.3	23.1	20.4	15.1	11.5	11.5	13.3
122.5°	10.6	10.6	12.4	16.0	19.4	20.4	17.7	13.3	9.8	10.6	11.5
125°	10.6	11.5	12.4	15.1	17.7	17.7	15.1	11.5	8.8	8.8	10.6
127.5°	11.5	11.5	12.4	14.2	16.0	16.0	13.3	9.8	8.8	8.8	9.8
130°	12.4	12.4	12.4	13.3	14.2	13.3	11.5	8.8	7.9	7.9	8.8
132.5°	12.4	12.4	12.4	12.4	12.4	11.5	9.8	7.9	7.1	7.9	8.8
135°	11.5	11.5	11.5	11.5	10.6	9.8	7.9	6.2	6.2	6.2	7.1
137.5°	10.6	9.8	9.8	9.8	8.8	7.9	6.2	4.5	5.4	5.4	6.2
140°	8.8	8.8	8.8	7.9	7.1	6.2	4.5	3.5	4.5	4.5	5.4
142.5°	7.1	7.1	7.1	6.2	5.4	4.5	2.6	2.6	3.5	4.5	4.5
145°	5.4	5.4	5.4	4.5	3.5	2.6	1.7	2.6	3.5	3.5	3.5
147.5°	3.5	3.5	3.5	3.5	1.7	0.9	1.7	1.7	2.6	2.6	3.5
150°	1.7	1.7	2.6	1.7	0.9	0.9	0.9	1.7	1.7	2.6	2.6
152.5°	0.9	0.9	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
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°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	195.8	194.9	193.2	190.5	188.7	187.8	187.8	186.1	186.1	186.1	185.2
5°	199.4	196.6	193.2	189.6	186.1	183.4	182.6	180.8	178.9	178.9	178.1
7.5°	204.7	202.0	195.8	190.5	185.2	181.6	179.8	178.1	176.4	175.5	174.6
10°	218.8	215.3	205.5	196.6	189.6	184.3	181.6	179.8	178.1	178.1	177.2
12.5°	248.1	241.9	229.5	214.3	199.4	191.4	188.7	194.9	197.5	200.3	200.3
15°	291.5	285.2	266.7	244.5	222.4	207.4	211.8	220.6	227.7	232.1	232.1
17.5°	344.7	334.9	311.9	280.0	250.7	240.2	238.3	248.1	258.7	265.0	265.0
20°	407.5	396.1	364.2	320.7	288.0	272.0	268.4	277.3	289.7	299.5	299.5
22.5°	489.1	475.9	428.9	367.6	325.1	302.9	298.6	307.4	325.1	338.4	337.6
25°	595.5	574.1	509.4	424.4	362.4	331.4	327.8	342.0	365.9	384.5	387.3
27.5°	718.6	688.5	591.8	485.5	398.7	356.1	357.1	376.6	405.8	426.2	426.2
30°	857.6	825.8	691.1	545.8	429.7	377.5	381.0	406.7	436.0	456.2	456.2
32.5°	1019.0	972.0	795.6	605.2	457.1	393.5	396.9	428.0	457.1	479.3	480.2
35°	1181.9	1118.2	890.5	653.9	480.2	406.7	408.4	444.8	476.7	501.5	504.1
37.5°	1330.8	1248.4	974.6	687.6	490.9	412.9	415.5	457.1	494.4	517.5	517.5
40°	1437.1	1333.5	1015.3	695.6	493.6	414.6	422.7	465.1	493.6	504.1	499.8
42.5°	1557.6	1430.1	1041.1	682.3	483.8	413.8	426.2	459.9	474.9	475.9	471.4
45°	1726.0	1560.3	1088.0	670.8	466.1	412.0	421.7	446.6	451.0	443.0	437.7
47.5°	1920.9	1702.0	1127.0	656.5	454.5	407.5	415.5	430.6	427.1	412.9	408.4
50°	2140.6	1881.9	1175.7	638.8	445.7	402.3	409.4	419.1	414.6	399.6	396.1
52.5°	2355.9	2039.7	1206.8	620.3	437.7	399.6	405.0	416.4	411.2	393.5	388.1
55°	2581.9	2200.1	1213.9	588.4	431.5	399.6	405.8	418.3	412.0	393.5	388.1
57.5°	2847.8	2372.8	1213.9	551.1	421.7	401.4	408.4	420.8	415.5	396.9	392.5
60°	3063.8	2495.9	1188.2	518.3	410.3	401.4	409.4	422.7	421.7	408.4	405.8
62.5°	3183.5	2541.2	1118.2	482.1	400.4	398.7	410.3	427.1	433.3	423.5	420.8
65°	3247.3	2526.1	1036.7	445.7	391.5	393.5	410.3	429.7	439.4	434.2	430.6
67°	3164.0	2419.8	947.2	420.8	382.7	389.0	408.4	429.7	443.0	441.2	437.7
67.5°	3122.4	2377.3	921.5	416.4	380.1	388.1	407.5	429.7	443.0	443.0	439.4
70°	2862.8	2137.9	787.6	383.6	363.3	374.8	397.8	425.3	440.4	441.2	439.4
72.5°	2419.8	1757.9	650.3	352.7	342.0	355.3	383.6	412.0	426.2	424.4	422.7
75°	1971.4	1417.6	529.8	322.6	317.2	332.2	358.0	384.5	394.3	389.8	388.1
77.5°	1561.2	1105.8	434.2	293.3	292.4	305.7	326.0	345.6	350.8	342.8	342.0
80°	1199.6	845.2	355.3	269.4	266.7	276.4	290.6	304.0	307.4	299.5	297.7
82.5°	918.8	640.6	295.0	242.8	241.9	247.3	257.0	265.8	272.0	264.1	261.3
85°	664.6	468.7	248.1	214.3	215.3	218.0	224.2	230.3	239.3	236.5	233.0
87.5°	463.4	340.3	210.9	187.8	187.8	189.6	193.2	199.4	210.9	210.0	206.4
90°	315.4	245.4	177.2	163.9	161.2	162.1	164.8	168.4	178.9	178.1	175.5
92.5°	210.9	174.6	143.5	135.6	134.7	135.6	135.6	138.2	143.5	140.8	138.2
95°	140.8	125.8	114.2	110.0	108.0	108.9	108.9	107.2	110.8	106.3	103.7
97.5°	100.9	94.8	92.1	88.6	86.0	86.9	86.9	85.1	86.0	79.8	78.0
100°	77.1	75.3	75.3	71.8	69.2	70.0	70.0	69.2	68.2	61.1	60.2
102.5°	61.1	60.2	61.1	58.5	55.8	57.6	56.7	55.8	54.1	47.8	47.0
105°	47.8	47.8	50.5	47.8	46.1	47.0	47.0	45.3	43.3	38.1	38.1
107.5°	37.2	38.1	40.8	39.0	38.1	39.0	38.1	36.3	33.7	30.1	30.1



REPORT NUMBER: P254307

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-A-7030

CANDELA DISTRIBUTION (continued):

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