

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: P255288

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255288
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-AF24-80-D-U-T2U-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7879.8 lumens
Efficiency: N/A
Efficacy: 94.9 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 - G3

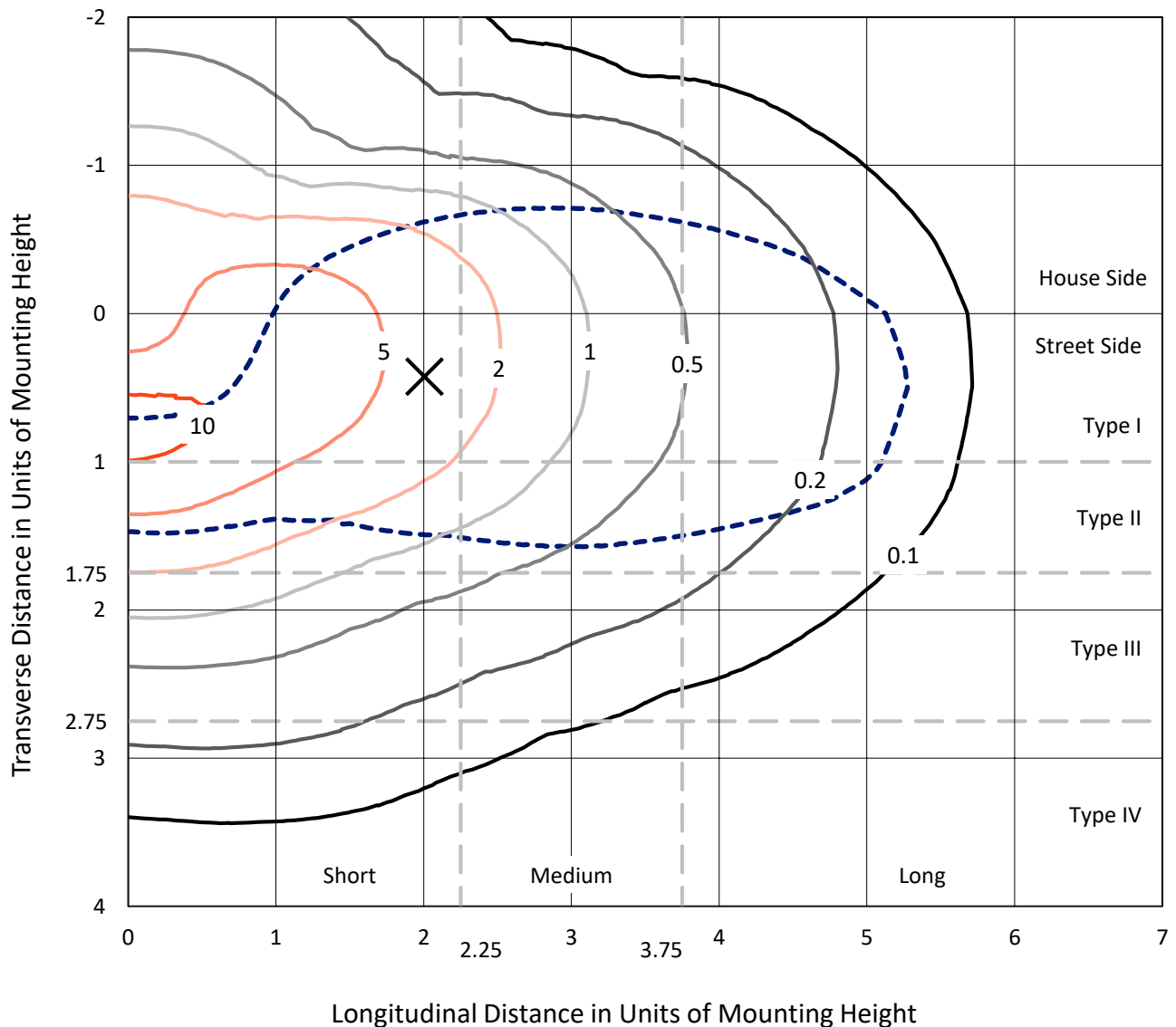
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

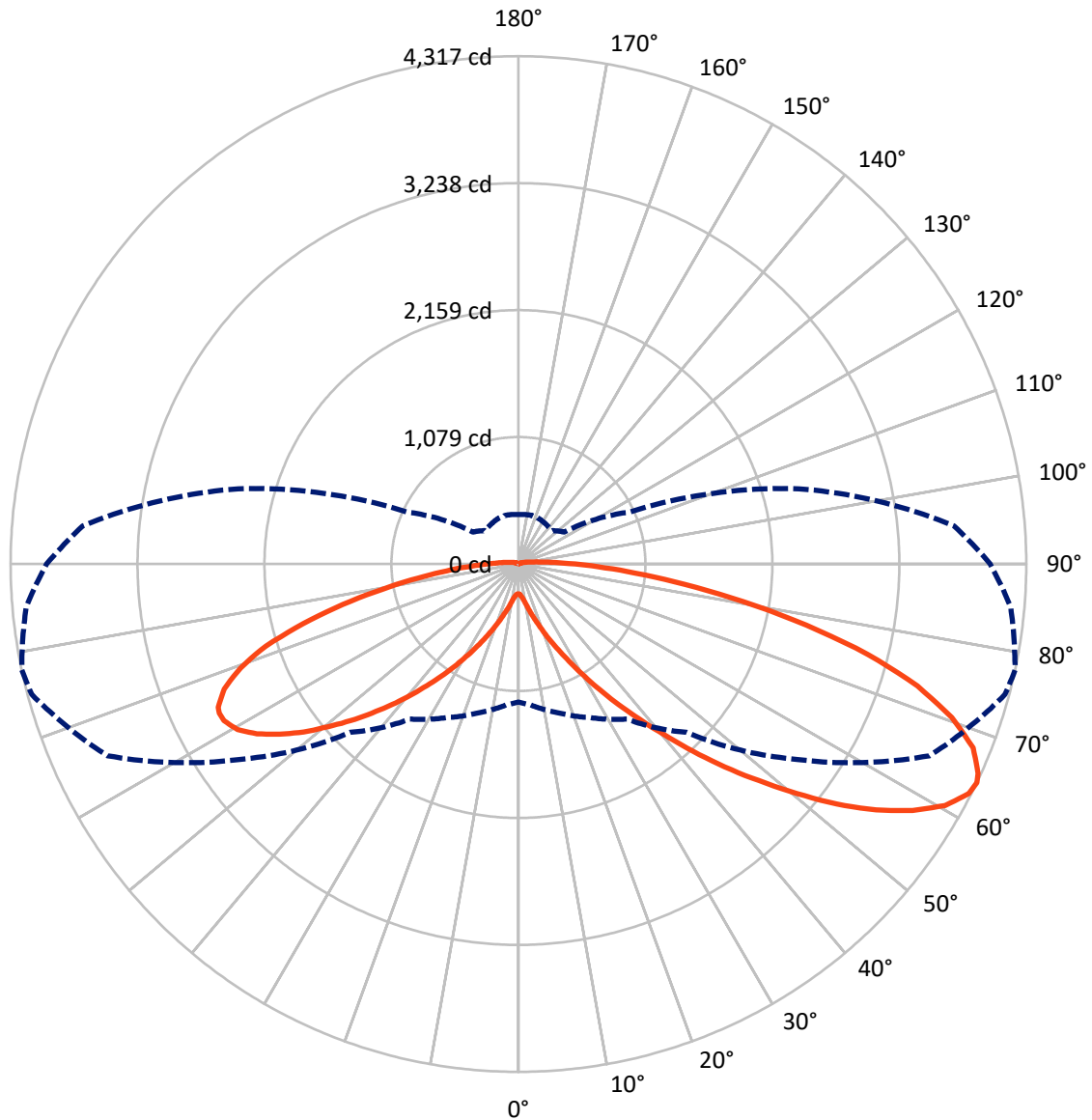
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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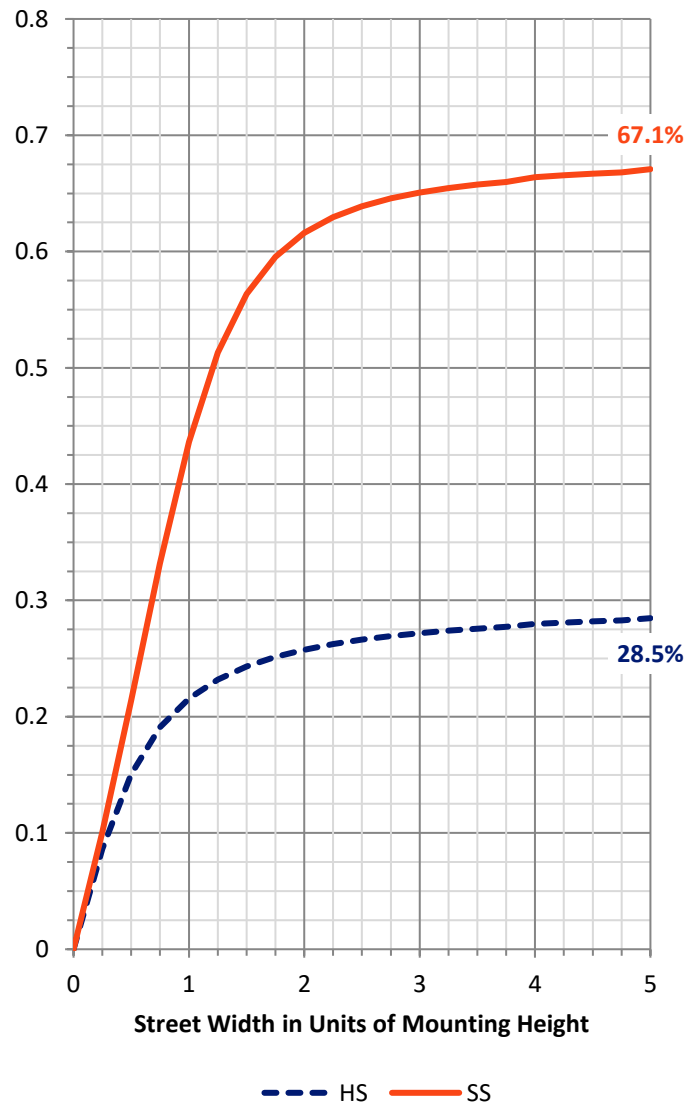
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2313.7	106.5	2420.2
	% Fixture	29.4	1.4	30.7
Street Side	Lumens	5358.6	101.0	5459.6
	% Fixture	68.0	1.3	69.3
Total	Lumens	7672.3	207.5	7879.8
	% Fixture	97.4	2.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	0.4
10°-20°	127.7	1.6
20°-30°	356.1	4.5
30°-40°	773.7	9.8
40°-50°	1336.2	17.0
50°-60°	1769.1	22.5
60°-70°	1725.9	21.9
70°-80°	1121.8	14.2
80°-90°	434.1	5.5
90°-100°	125.3	1.6
100°-110°	47.6	0.6
110°-120°	20.7	0.3
120°-130°	9.1	0.1
130°-140°	3.7	0.0
140°-150°	1.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7672.3	97.4
0°-180°	7879.8	100.0



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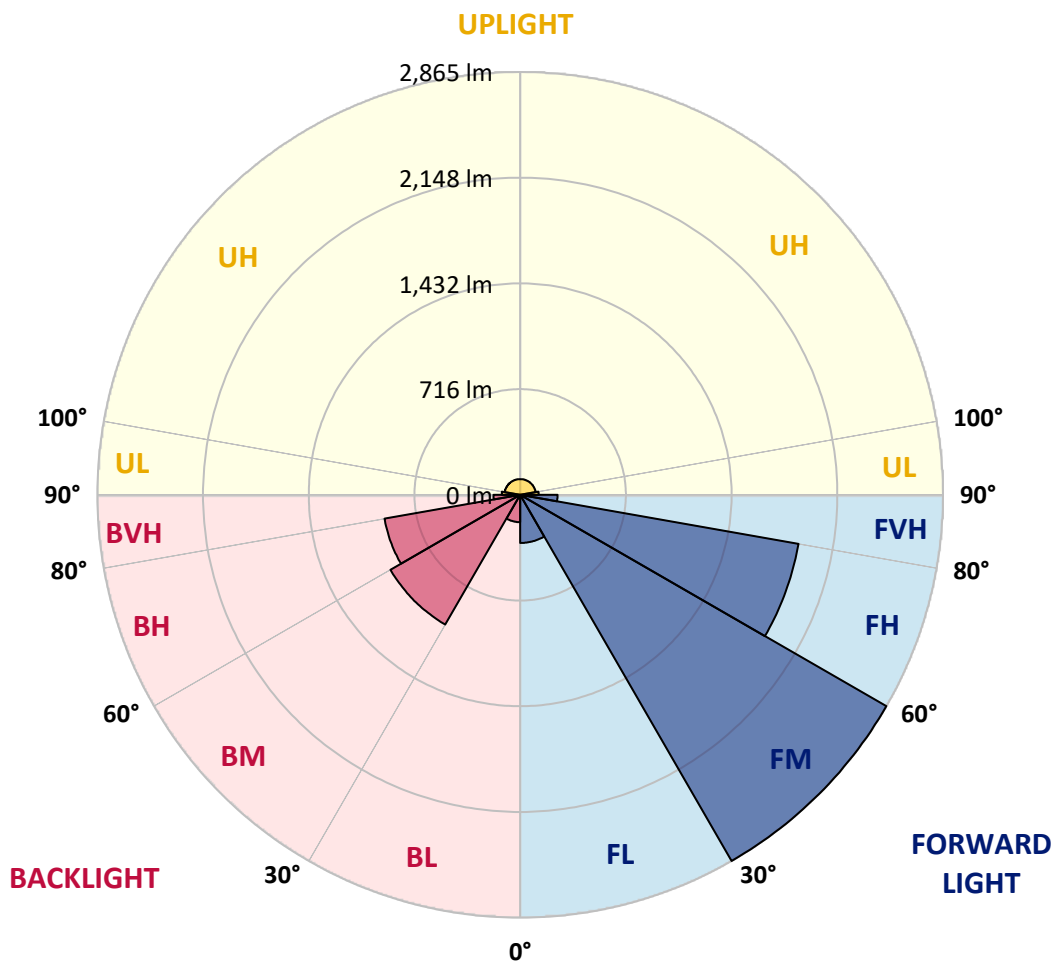
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.2	4.1			
FM (30°-60°)	2864.5	36.4			
FH (60°-80°)	1914.7	24.3			G2/5000
FVH (80°-90°)	253.2	3.2			G3/500
BL (0°-30°)	185.3	2.4	B1/500		
BM (30°-60°)	1014.5	12.9	B2/2500		
BH (60°-80°)	932.9	11.8	B2/1000		G2/1000
BVH (80°-90°)	181.0	2.3			G2/225
UL (90°-100°)	125.3	1.6		U3/500	
UH (100°-180°)	106.5	1.4		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0
2.5°	274.6	273.6	273.6	274.6	271.8	270.8	268.0	264.2	261.5	260.5	257.7
5°	304.5	302.7	300.8	301.8	298.9	294.2	289.6	284.0	279.3	277.4	272.7
7.5°	340.1	342.1	338.3	336.4	332.7	328.0	319.6	313.0	306.5	303.6	298.9
10°	396.4	397.3	390.8	391.7	380.4	374.8	366.4	355.2	347.7	343.0	336.4
12.5°	473.2	472.3	464.8	462.0	448.0	437.6	424.5	411.3	403.9	398.2	387.0
15°	566.9	565.1	560.4	549.1	527.5	514.4	498.5	478.8	468.5	461.0	448.9
17.5°	677.5	678.4	669.1	654.1	625.0	606.3	582.9	556.6	541.7	531.3	518.2
20°	815.3	816.2	799.3	777.7	740.3	714.0	674.7	650.3	626.9	621.2	600.7
22.5°	979.3	978.4	953.0	924.8	874.3	834.9	791.9	752.5	725.3	717.8	695.3
25°	1165.8	1163.8	1132.9	1102.9	1027.0	975.5	919.3	870.5	843.4	828.4	803.1
27.5°	1385.0	1381.3	1340.1	1296.9	1200.4	1124.5	1056.1	1010.2	976.4	956.8	928.6
30°	1621.2	1617.4	1567.8	1497.5	1393.5	1306.3	1216.3	1162.9	1124.5	1109.5	1071.1
32.5°	1876.0	1868.5	1810.4	1725.2	1602.5	1491.9	1400.9	1340.1	1293.2	1278.2	1228.5
35°	2134.7	2124.4	2062.5	1963.1	1821.7	1700.8	1608.1	1544.3	1486.2	1466.5	1406.6
37.5°	2383.0	2368.9	2320.3	2194.6	2051.2	1938.8	1834.8	1755.2	1691.4	1673.6	1594.9
40°	2579.8	2571.4	2526.4	2405.5	2268.7	2155.3	2075.7	2011.9	1931.3	1904.1	1819.8
42.5°	2729.7	2721.3	2686.6	2586.3	2464.5	2386.7	2320.3	2274.3	2205.0	2175.9	2056.8
45°	2807.5	2795.3	2780.3	2708.2	2624.8	2586.3	2577.9	2561.1	2493.5	2459.8	2321.2
47.5°	2789.7	2784.1	2798.1	2754.1	2721.3	2755.0	2827.1	2860.9	2783.1	2752.2	2606.1
50°	2677.3	2684.7	2720.3	2716.5	2748.5	2862.8	3044.6	3156.1	3107.3	3066.1	2906.8
52.5°	2488.8	2499.2	2562.9	2597.6	2689.4	2905.9	3213.3	3434.4	3439.1	3391.3	3211.3
55°	2241.5	2264.0	2341.7	2409.3	2557.3	2856.2	3312.6	3668.7	3739.0	3690.2	3499.1
57.5°	1948.2	1980.9	2066.3	2177.8	2350.2	2720.3	3332.3	3843.9	3992.9	3952.6	3769.9
60°	1642.7	1666.1	1772.1	1897.6	2070.0	2512.3	3250.7	3935.7	4192.5	4167.2	4018.2
62.5°	1342.8	1369.1	1477.8	1615.5	1784.2	2217.1	3056.8	3929.2	4285.2	4297.4	4165.4
64°	1173.2	1202.3	1309.1	1439.4	1608.1	2025.0	2895.6	3856.1	4283.4	4317.2	4201.0
65°	1067.3	1096.4	1201.4	1330.7	1495.6	1891.9	2774.7	3785.8	4265.6	4293.7	4201.9
67.5°	834.0	857.4	956.8	1089.9	1221.9	1559.3	2391.5	3508.4	4121.3	4168.1	4114.7
70°	641.0	663.5	754.3	877.1	987.7	1267.8	1975.3	3102.7	3842.9	3908.6	3883.2
72.5°	492.9	511.7	592.2	699.1	789.0	1002.7	1578.0	2622.8	3440.0	3546.9	3551.6
75°	380.4	395.5	462.0	554.7	625.9	779.7	1229.5	2106.6	2926.5	3068.0	3100.8
77.5°	297.1	306.5	359.9	435.8	493.9	596.0	924.8	1621.2	2361.5	2502.0	2560.1
80°	233.3	240.8	282.0	342.1	387.9	448.0	677.5	1199.5	1810.4	1937.9	1993.2
82.5°	180.9	187.4	220.2	268.9	304.5	343.9	484.5	854.6	1317.6	1422.5	1467.4
85°	137.8	142.4	170.5	207.0	236.1	264.2	338.3	583.8	917.4	997.1	1028.0
87.5°	102.2	105.9	129.3	159.3	180.9	202.4	246.4	386.1	616.6	673.7	696.2
90°	74.1	76.8	95.5	120.9	139.6	155.6	179.0	255.8	396.4	434.8	451.6
92.5°	52.5	55.2	70.3	90.9	108.7	121.8	137.8	178.1	254.0	274.6	287.7
95°	38.5	40.3	51.6	68.4	84.3	96.6	109.7	129.3	167.8	179.0	183.6
97.5°	29.1	30.0	39.4	52.5	66.5	76.8	86.2	98.4	118.0	123.7	126.5
100°	22.5	23.4	30.9	42.1	53.4	62.8	69.4	76.8	87.2	90.9	92.8
102.5°	18.7	19.6	25.3	34.7	44.1	51.6	57.2	61.9	66.5	68.4	71.2
105°	16.9	16.9	22.5	30.0	37.4	44.1	48.7	50.6	51.6	52.5	53.4
107.5°	14.0	15.0	19.6	26.2	32.8	38.5	41.2	41.2	39.4	39.4	40.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	13.1	13.1	16.9	22.5	29.1	32.8	34.7	32.8	29.1	29.1	30.0
112.5°	11.3	12.2	15.0	19.6	25.3	29.1	29.1	26.2	21.6	21.6	22.5
115°	10.3	10.3	13.1	17.8	21.6	24.3	24.3	21.6	16.0	16.0	16.9
117.5°	9.4	9.4	11.3	15.0	18.7	21.6	20.7	16.9	12.2	12.2	14.0
120°	9.4	9.4	10.3	13.1	16.0	17.8	16.9	13.1	9.4	9.4	11.3
122.5°	8.4	8.4	9.4	11.3	14.0	15.0	14.0	10.3	7.5	8.4	9.4
125°	8.4	8.4	8.4	10.3	12.2	13.1	12.2	8.4	6.5	6.5	7.5
127.5°	7.5	7.5	7.5	8.4	10.3	11.3	9.4	6.5	5.6	5.6	6.5
130°	7.5	7.5	6.5	7.5	9.4	9.4	7.5	4.7	3.8	4.7	5.6
132.5°	6.5	6.5	6.5	6.5	7.5	7.5	6.5	3.8	3.8	3.8	4.7
135°	6.5	6.5	5.6	5.6	6.5	6.5	4.7	2.8	2.8	2.8	3.8
137.5°	5.6	5.6	5.6	4.7	4.7	4.7	3.8	1.8	1.8	2.8	2.8
140°	4.7	4.7	4.7	3.8	3.8	2.8	1.8	0.9	1.8	1.8	2.8
142.5°	3.8	3.8	3.8	2.8	2.8	1.8	0.9	0.9	0.9	1.8	1.8
145°	2.8	2.8	2.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8
147.5°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0	254.0
2.5°	256.8	255.8	253.0	251.1	249.3	247.3	247.3	245.5	244.6	243.7	243.7
5°	271.8	268.0	263.3	259.5	254.9	250.2	246.4	243.7	241.7	240.8	239.9
7.5°	294.2	289.6	281.1	274.6	266.2	259.5	254.0	248.4	246.4	244.6	244.6
10°	331.7	323.3	311.1	298.9	287.7	276.4	269.9	262.4	260.5	258.6	258.6
12.5°	381.4	373.0	353.3	336.4	318.6	303.6	293.3	286.7	284.9	282.0	282.9
15°	440.4	425.4	403.9	379.5	357.0	336.4	324.3	313.9	309.2	306.5	307.4
17.5°	507.0	490.1	459.2	427.3	398.2	375.7	355.2	340.1	332.7	329.9	329.9
20°	583.8	565.1	525.7	482.6	445.1	413.3	387.0	364.5	355.2	351.4	351.4
22.5°	674.7	651.3	596.9	541.7	494.8	448.0	413.3	386.1	374.8	371.1	371.1
25°	779.7	748.7	679.3	611.0	540.7	477.9	433.8	404.8	391.7	387.0	387.0
27.5°	889.3	860.2	770.3	683.1	586.7	502.3	449.8	418.0	402.9	400.2	399.2
30°	1028.0	986.7	870.5	751.6	625.9	519.1	456.3	425.4	410.4	407.6	407.6
32.5°	1173.2	1124.5	984.0	822.8	655.9	526.6	457.3	428.2	415.1	412.4	411.3
35°	1343.7	1280.9	1102.0	895.8	683.1	529.5	456.3	430.2	419.8	416.0	415.1
37.5°	1529.3	1449.6	1226.6	963.3	697.1	524.8	453.6	429.2	421.7	417.0	416.0
40°	1729.8	1638.1	1369.1	1017.6	699.1	515.4	448.0	430.2	422.6	417.0	415.1
42.5°	1953.8	1843.3	1506.8	1067.3	693.5	504.1	444.2	430.2	423.6	417.0	415.1
45°	2203.0	2068.1	1651.1	1105.7	678.4	491.0	440.4	430.2	424.5	416.0	415.1
47.5°	2469.2	2309.0	1799.2	1135.8	659.7	477.9	438.5	432.0	427.3	417.0	416.0
50°	2747.5	2562.9	1942.6	1155.4	637.2	465.7	436.7	432.0	429.2	418.0	417.0
52.5°	3047.4	2831.8	2098.1	1165.8	611.0	453.6	434.8	433.8	431.1	420.7	418.9
55°	3326.6	3090.5	2236.8	1165.8	583.8	442.3	432.9	434.8	433.8	423.6	421.7
57.5°	3587.2	3328.5	2358.6	1151.6	554.7	431.1	429.2	433.8	434.8	425.4	423.6
60°	3812.0	3536.5	2444.9	1129.1	524.8	419.8	424.5	432.0	434.8	426.4	424.5
62.5°	3963.8	3680.9	2473.9	1081.4	492.9	407.6	416.0	426.4	432.0	424.5	422.6
64°	4010.7	3717.4	2467.4	1045.8	473.2	400.2	410.4	422.6	428.2	422.6	420.7
65°	4023.8	3723.0	2443.9	1015.8	461.0	394.6	405.8	418.9	425.4	419.8	418.0
67.5°	3945.1	3625.5	2328.6	926.8	432.0	379.5	392.6	405.8	414.2	411.3	409.5
70°	3744.6	3419.4	2138.4	829.3	402.0	361.7	374.8	388.9	399.2	397.3	396.4
72.5°	3413.8	3094.2	1898.5	715.0	372.0	342.1	351.4	367.3	377.7	376.8	374.8
75°	2976.2	2666.0	1568.7	611.0	339.2	316.7	326.1	340.1	350.5	348.6	348.6
77.5°	2464.5	2167.4	1259.5	505.1	309.2	289.6	298.0	309.2	318.6	315.8	314.9
80°	1920.1	1668.0	962.4	411.3	277.4	260.5	266.2	274.6	282.9	279.3	278.3
82.5°	1411.3	1220.1	709.4	329.9	245.5	227.7	232.4	239.9	244.6	240.8	239.9
85°	989.6	852.7	513.5	262.4	210.8	195.9	196.8	200.5	204.3	198.7	197.7
87.5°	667.2	571.6	356.1	208.1	178.1	164.9	164.0	165.8	168.7	163.1	160.2
90°	437.6	373.0	243.7	168.7	149.0	137.8	135.8	135.8	136.8	130.2	128.4
92.5°	277.4	241.7	177.1	137.8	124.6	114.4	111.5	110.6	109.7	103.1	102.2
95°	180.9	165.8	135.8	114.4	103.1	94.6	91.9	89.9	88.1	83.4	81.5
97.5°	127.5	120.0	107.7	94.6	86.2	78.7	75.9	73.1	71.2	65.6	64.7
100°	95.5	92.8	87.2	78.7	72.1	65.6	62.8	59.9	58.1	52.5	51.6
102.5°	74.1	74.1	71.2	65.6	59.9	54.3	52.5	49.7	46.9	43.1	42.1
105°	57.2	57.2	58.1	55.2	50.6	46.9	44.1	42.1	39.4	34.7	34.7
107.5°	43.1	45.0	46.9	45.9	43.1	39.4	37.4	35.6	31.8	29.1	29.1



REPORT NUMBER: P255288

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	32.8	33.8	37.4	38.5	36.5	33.8	31.8	29.1	26.2	23.4	23.4
112.5°	24.3	26.2	30.0	31.8	30.9	29.1	27.2	24.3	20.7	19.6	19.6
115°	18.7	20.7	24.3	26.2	26.2	24.3	22.5	19.6	16.9	16.0	16.9
117.5°	15.0	16.9	19.6	21.6	21.6	19.6	18.7	16.0	14.0	14.0	14.0
120°	12.2	14.0	16.0	17.8	17.8	16.9	15.0	13.1	11.3	12.2	12.2
122.5°	10.3	11.3	13.1	14.0	15.0	14.0	12.2	10.3	9.4	10.3	10.3
125°	8.4	9.4	11.3	11.3	12.2	11.3	10.3	8.4	7.5	8.4	8.4
127.5°	7.5	8.4	9.4	9.4	10.3	9.4	8.4	6.5	6.5	7.5	7.5
130°	5.6	6.5	7.5	7.5	8.4	7.5	6.5	5.6	5.6	6.5	6.5
132.5°	4.7	5.6	5.6	6.5	6.5	6.5	5.6	3.8	4.7	4.7	4.7
135°	4.7	4.7	5.6	4.7	4.7	4.7	3.8	2.8	3.8	3.8	3.8
137.5°	3.8	3.8	4.7	4.7	3.8	3.8	2.8	1.8	2.8	3.8	3.8
140°	2.8	3.8	3.8	3.8	3.8	2.8	1.8	0.9	1.8	1.8	1.8
142.5°	2.8	2.8	3.8	3.8	2.8	1.8	0.9	0.0	0.9	0.9	0.9
145°	1.8	2.8	2.8	2.8	1.8	1.8	0.9	0.0	0.0	0.9	0.0
147.5°	1.8	1.8	2.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
150°	0.9	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.9	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)