

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: P255009

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-FL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)
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-FL-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7338.9 lumens
Efficiency: N/A
Efficacy: 88.4 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

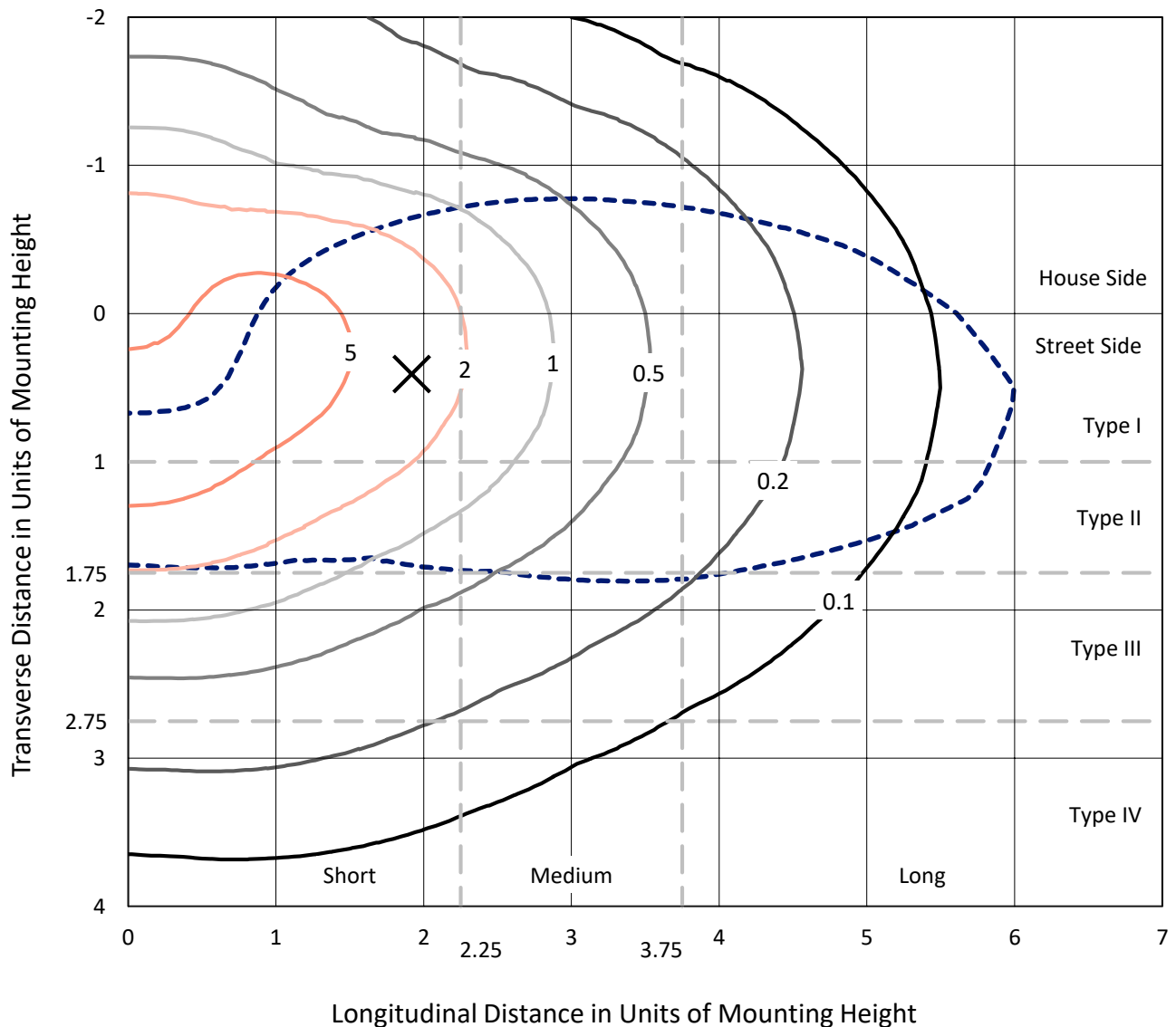


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

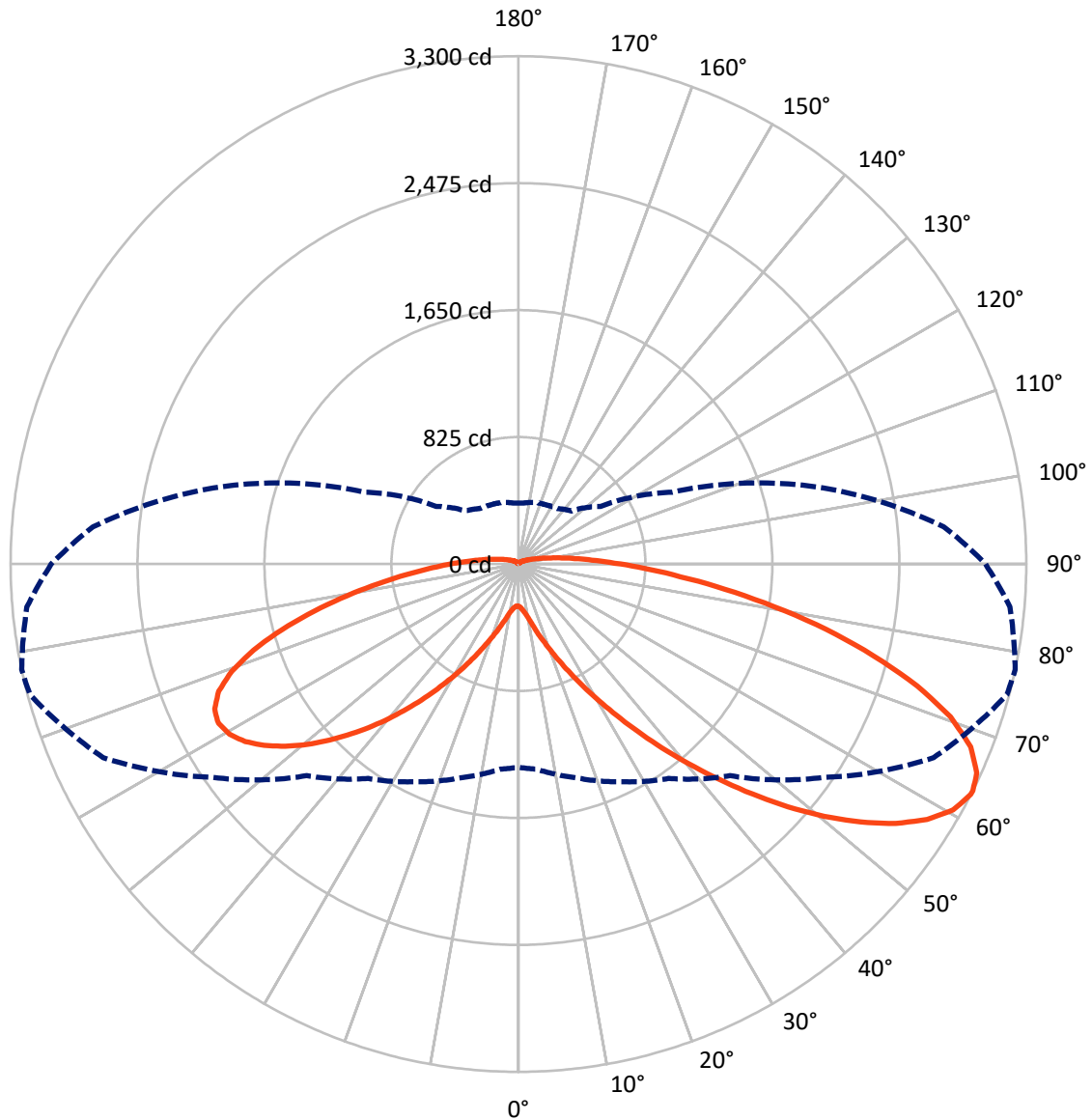


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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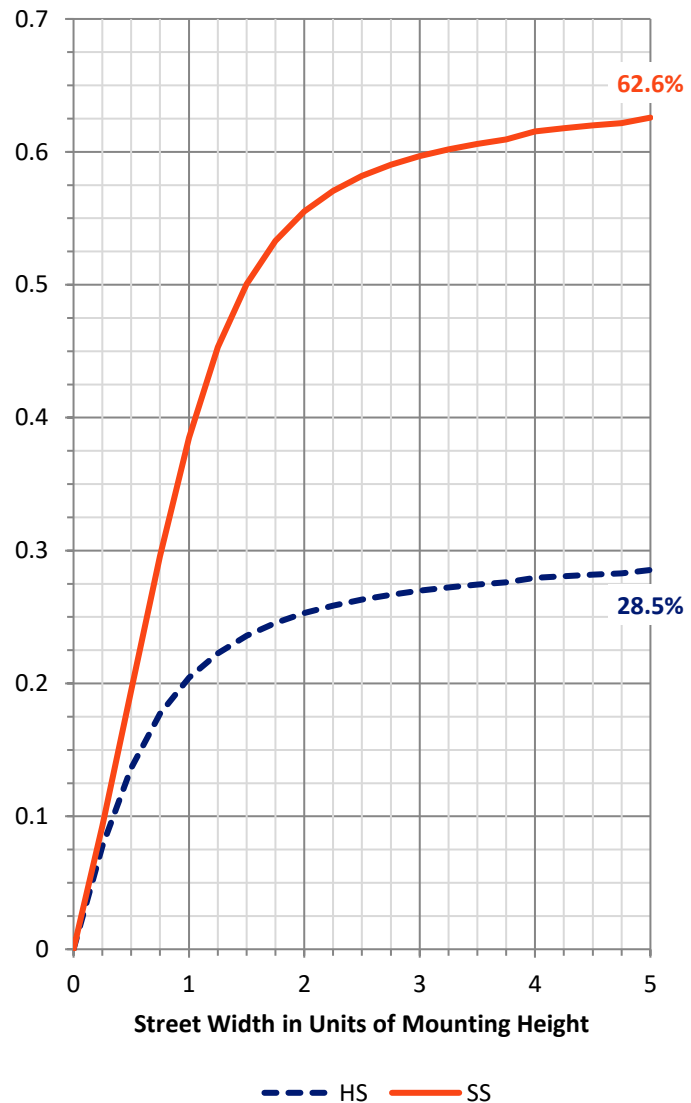
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2180.0	199.3	2379.3
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	4712.8	246.8	4959.6
	% Fixture	64.2	3.4	67.6
Total	Lumens	6892.9	446.0	7338.9
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	0.4
10°-20°	125.0	1.7
20°-30°	327.0	4.5
30°-40°	678.8	9.2
40°-50°	1143.4	15.6
50°-60°	1502.8	20.5
60°-70°	1488.1	20.3
70°-80°	1059.4	14.4
80°-90°	539.2	7.3
90°-100°	234.6	3.2
100°-110°	107.3	1.5
110°-120°	54.6	0.7
120°-130°	29.0	0.4
130°-140°	14.5	0.2
140°-150°	5.2	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6892.9	93.9
0°-180°	7338.9	100.0



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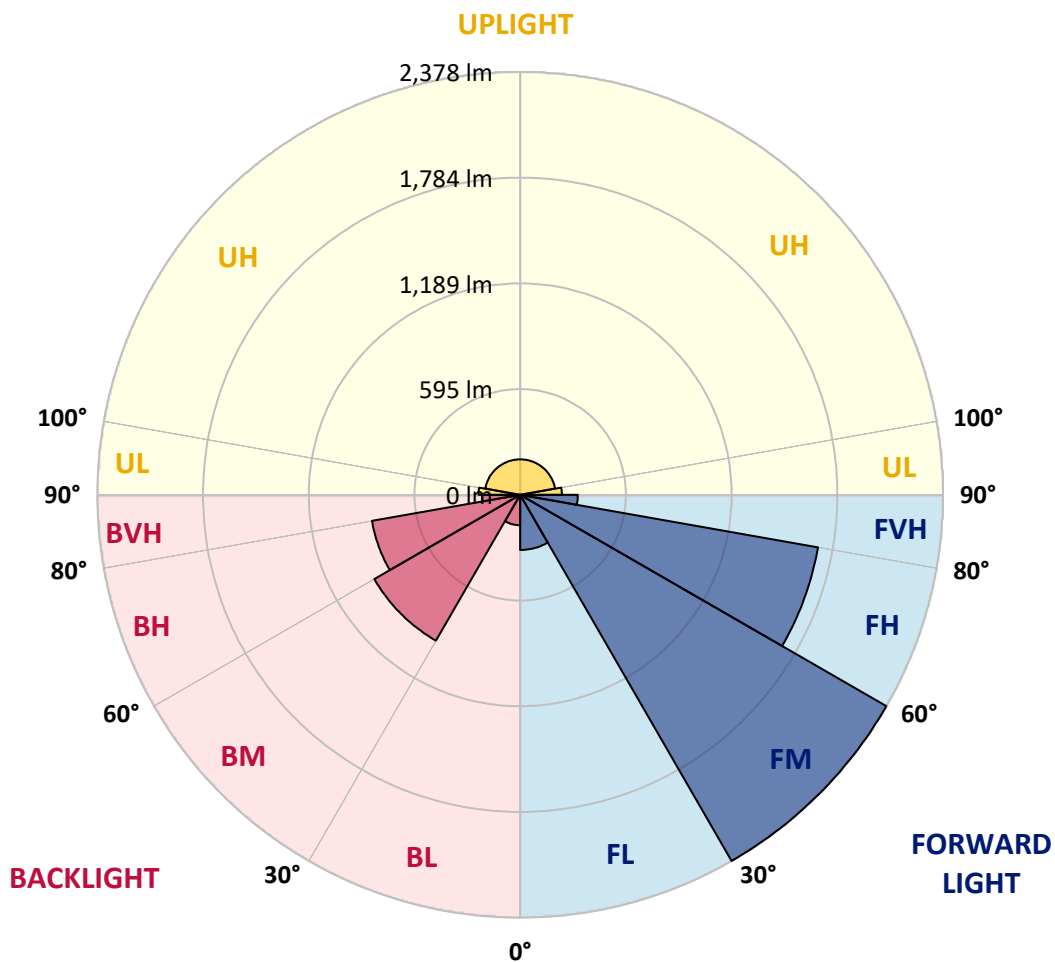
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.2	4.2			
FM (30°-60°)	2378.0	32.4			
FH (60°-80°)	1700.8	23.2			G1/1800
FVH (80°-90°)	323.8	4.4			G3/500
BL (0°-30°)	171.0	2.3	B1/500		
BM (30°-60°)	947.0	12.9	B1/1000		
BH (60°-80°)	846.6	11.5	B2/1000		G2/1000
BVH (80°-90°)	215.4	2.9			G2/225
UL (90°-100°)	234.6	3.2		U3/500	
UH (100°-180°)	199.3	2.7		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°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
2.5°	304.8	305.7	305.7	303.8	302.1	298.6	295.0	290.6	284.4	283.5	279.0
5°	341.1	342.0	341.1	337.5	334.0	327.8	320.6	312.7	302.1	301.2	293.3
7.5°	385.3	386.2	385.3	379.2	373.0	364.2	354.4	342.8	327.8	325.1	314.5
10°	440.4	442.1	439.4	434.1	423.5	410.2	397.8	381.0	365.0	358.8	345.5
12.5°	510.4	510.4	505.0	497.0	483.7	466.9	450.9	430.6	412.9	404.0	389.8
15°	588.3	589.1	582.2	572.3	558.2	532.4	514.7	493.6	471.4	463.4	442.9
17.5°	677.7	679.5	670.7	656.5	637.0	611.3	589.1	564.4	538.6	525.4	504.1
20°	782.3	782.3	772.6	754.0	729.2	700.8	672.5	644.1	615.7	599.9	577.7
22.5°	901.1	901.1	889.5	864.7	829.3	798.2	767.2	735.4	704.4	687.5	659.2
25°	1038.4	1043.7	1021.6	990.6	950.7	907.2	876.3	839.0	805.4	786.7	755.7
27.5°	1193.4	1196.1	1168.6	1122.5	1071.2	1026.0	991.4	957.7	920.5	901.1	863.8
30°	1360.0	1354.6	1329.8	1274.9	1207.6	1152.6	1118.0	1087.1	1044.5	1029.4	988.7
32.5°	1538.9	1535.4	1503.5	1428.1	1355.6	1289.0	1251.9	1232.3	1189.9	1173.0	1129.6
35°	1727.6	1721.4	1683.3	1604.5	1508.8	1436.1	1402.5	1392.7	1353.7	1336.9	1284.7
37.5°	1925.2	1911.1	1863.2	1763.1	1663.8	1586.8	1571.7	1557.5	1531.9	1514.2	1452.0
40°	2082.9	2076.7	2028.8	1924.3	1817.1	1752.4	1742.6	1752.4	1727.6	1707.2	1635.5
42.5°	2210.6	2206.1	2167.9	2065.2	1958.0	1898.6	1909.3	1941.1	1933.3	1912.8	1833.1
45°	2299.1	2294.7	2267.2	2178.6	2080.3	2036.8	2084.6	2143.1	2148.5	2131.6	2037.6
47.5°	2330.1	2327.4	2312.4	2247.7	2172.4	2161.8	2256.5	2348.7	2370.8	2356.7	2250.3
50°	2290.2	2292.0	2297.2	2268.1	2222.0	2252.2	2392.1	2544.5	2592.2	2576.5	2463.0
52.5°	2187.5	2193.7	2219.4	2229.1	2222.0	2299.1	2505.6	2721.6	2803.1	2785.4	2668.5
55°	2029.7	2038.6	2083.8	2134.3	2170.7	2295.5	2576.5	2871.5	2988.3	2976.0	2854.6
57.5°	1822.5	1840.2	1901.3	1990.8	2064.4	2240.6	2596.8	2974.1	3139.9	3131.1	3013.2
60°	1593.0	1608.1	1692.2	1809.2	1915.5	2133.4	2552.6	3018.5	3242.6	3245.3	3133.7
62.5°	1365.3	1382.1	1481.3	1602.8	1738.4	1979.2	2447.1	2991.9	3285.2	3298.4	3201.9
63°	1321.0	1337.8	1437.1	1561.1	1701.0	1944.7	2418.7	2976.9	3285.2	3300.1	3206.3
65°	1149.1	1165.0	1263.4	1392.7	1540.7	1794.0	2281.4	2888.3	3249.7	3272.8	3199.2
67.5°	948.9	965.8	1065.0	1192.6	1335.1	1581.4	2065.2	2705.7	3128.3	3169.9	3123.0
70°	779.7	797.4	887.7	1008.3	1141.1	1365.3	1818.0	2460.3	2933.4	2978.6	2960.9
72.5°	642.3	657.4	746.0	847.0	965.8	1165.0	1564.6	2164.4	2654.4	2709.3	2719.9
75°	524.5	540.4	618.4	708.8	813.3	980.7	1319.2	1851.6	2308.8	2385.0	2415.1
77.5°	428.0	442.9	512.1	591.0	679.5	816.8	1093.2	1541.5	1954.4	2046.5	2085.5
80°	349.1	363.3	420.0	491.6	567.0	677.7	895.7	1242.2	1603.6	1686.9	1727.6
82.5°	283.5	295.9	345.5	408.4	472.2	561.7	731.0	994.0	1281.1	1351.1	1373.3
85°	228.6	239.2	283.5	338.4	392.5	461.6	591.0	785.9	1002.0	1057.0	1084.4
87.5°	182.5	191.4	231.2	279.0	325.1	388.1	478.4	626.4	775.2	815.9	833.6
90°	147.9	155.0	187.8	228.6	270.2	316.3	388.1	487.3	596.2	625.5	637.8
92.5°	120.5	125.7	155.0	188.7	225.9	267.5	316.3	385.3	458.9	478.4	486.4
95°	100.9	102.8	128.5	157.7	187.8	223.2	258.7	306.6	354.4	367.6	371.3
97.5°	82.4	85.0	107.2	133.8	159.5	186.1	211.8	245.4	275.6	283.5	284.4
100°	70.9	71.8	90.3	114.2	136.5	157.7	176.4	196.6	214.3	217.1	218.8
102.5°	60.2	61.1	77.0	99.2	117.8	135.6	149.6	161.2	168.4	169.3	169.3
105°	52.2	53.2	66.4	86.0	102.8	116.1	127.7	131.9	133.8	132.9	132.9
107.5°	47.0	47.0	58.5	75.3	90.3	101.9	108.9	109.8	107.2	105.4	105.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	41.6	42.5	51.4	67.3	80.7	89.5	94.8	92.1	86.9	85.0	85.0
112.5°	38.1	39.0	45.3	59.3	70.9	79.8	82.4	78.0	70.9	69.1	70.0
115°	35.4	35.4	40.8	52.2	63.8	70.9	71.8	66.4	58.5	57.6	58.5
117.5°	32.8	32.8	36.3	47.0	56.7	63.0	63.0	56.7	49.6	47.8	48.7
120°	31.0	31.0	33.7	41.6	50.5	55.8	54.9	48.7	41.6	41.6	42.5
122.5°	29.3	29.3	31.0	37.2	45.3	49.6	48.7	41.6	35.4	35.4	36.3
125°	27.5	27.5	28.3	33.7	39.9	43.3	42.5	35.4	31.0	31.0	31.9
127.5°	25.6	25.6	26.6	30.1	35.4	38.1	36.3	30.1	27.5	27.5	28.3
130°	24.8	24.8	24.8	26.6	31.0	33.7	31.0	25.6	23.9	23.9	24.8
132.5°	23.1	23.1	23.1	23.9	26.6	28.3	26.6	22.2	21.3	21.3	22.2
135°	22.2	22.2	21.3	21.3	23.1	23.9	21.3	18.6	18.6	18.6	19.4
137.5°	20.4	20.4	19.4	18.6	19.4	19.4	17.7	15.1	16.0	16.0	16.8
140°	18.6	18.6	17.7	16.0	15.1	15.1	13.3	12.4	13.3	13.3	14.2
142.5°	16.0	16.0	15.1	13.3	11.5	10.6	9.8	9.8	10.6	10.6	11.5
145°	13.3	13.3	12.4	10.6	8.8	7.9	7.1	7.1	7.9	7.9	8.8
147.5°	10.6	10.6	9.8	7.9	6.2	4.5	4.5	5.4	6.2	6.2	6.2
150°	8.8	8.8	7.9	6.2	3.5	2.6	1.7	2.6	3.5	3.5	3.5
152.5°	6.2	6.2	5.4	3.5	2.6	0.9	0.9	1.7	2.6	2.6	2.6
155°	3.5	3.5	2.6	1.7	0.9	0.9	0.9	0.9	1.7	1.7	1.7
157.5°	1.7	1.7	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
2.5°	277.3	275.6	271.1	266.7	263.1	260.5	258.7	256.0	255.1	254.2	254.2
5°	288.8	284.4	276.4	268.4	261.3	255.1	249.8	245.4	242.8	241.0	241.9
7.5°	307.4	300.4	288.8	276.4	265.0	256.0	248.0	242.8	238.3	235.7	235.7
10°	336.6	326.9	309.2	291.5	277.3	264.0	254.2	246.3	241.0	238.3	238.3
12.5°	378.2	365.9	341.1	316.3	296.7	279.0	266.7	258.7	257.0	254.2	254.2
15°	428.0	412.9	382.7	350.8	324.3	300.4	289.7	282.7	278.2	274.7	274.7
17.5°	486.4	466.9	428.9	389.8	357.1	332.2	314.5	304.8	299.5	296.7	296.7
20°	553.7	529.8	482.8	434.1	393.4	366.8	342.8	327.8	322.6	319.8	318.9
22.5°	631.7	602.4	545.8	484.7	436.8	401.3	373.0	350.8	344.6	342.0	340.3
25°	724.7	691.9	616.7	542.3	482.8	434.1	399.6	374.8	365.9	363.3	362.4
27.5°	829.3	789.4	697.3	606.0	526.3	463.4	422.7	396.9	385.3	381.9	382.7
30°	946.1	899.2	785.9	670.7	568.8	489.9	441.2	413.8	401.3	397.8	397.8
32.5°	1076.4	1014.5	882.4	738.9	608.7	512.1	457.1	428.9	413.8	411.2	411.2
35°	1220.0	1155.3	986.9	808.0	644.1	529.8	468.7	440.4	424.4	420.8	420.8
37.5°	1384.8	1299.7	1097.7	874.4	674.2	543.1	476.7	447.4	431.5	426.1	426.1
40°	1552.2	1453.9	1212.9	937.3	700.0	551.1	481.1	450.9	436.0	428.9	428.0
42.5°	1735.6	1612.4	1330.7	995.0	717.7	555.5	482.0	453.7	437.7	428.9	426.9
45°	1926.1	1793.2	1439.7	1044.5	731.0	555.5	481.1	452.8	437.7	426.1	424.4
47.5°	2118.3	1967.8	1553.1	1086.1	737.2	552.9	479.3	451.9	436.8	422.7	420.8
50°	2318.6	2142.2	1660.3	1119.0	736.2	547.5	474.8	449.2	433.2	418.1	416.4
52.5°	2506.4	2302.6	1758.6	1142.0	731.0	539.5	469.6	446.6	430.6	413.8	412.0
55°	2688.9	2463.9	1843.7	1154.5	719.4	529.8	464.3	442.9	428.0	409.2	408.4
57.5°	2836.0	2599.4	1910.2	1153.6	702.5	517.5	458.1	438.5	424.4	406.7	405.0
60°	2956.4	2708.4	1952.7	1140.2	682.3	505.0	450.9	433.2	420.8	403.1	400.4
62.5°	3027.3	2769.5	1963.3	1111.9	657.4	490.8	441.2	425.2	414.6	398.7	396.1
63°	3035.3	2774.8	1960.6	1104.8	652.1	487.3	439.4	424.4	413.8	397.8	395.2
65°	3032.7	2773.1	1935.0	1068.4	629.0	473.1	430.6	416.4	407.5	392.5	389.8
67.5°	2963.5	2705.7	1862.4	1008.3	595.4	454.5	416.4	405.0	396.1	382.7	380.1
70°	2813.9	2562.2	1740.1	933.0	558.2	433.2	398.7	389.8	381.0	368.5	365.0
72.5°	2592.2	2350.5	1576.2	852.3	519.2	408.4	379.2	370.3	363.3	352.6	346.5
75°	2303.5	2082.1	1386.5	762.0	476.7	382.7	355.3	348.2	339.4	329.5	324.3
77.5°	1967.8	1775.5	1186.3	668.8	433.2	353.5	329.5	321.7	313.7	302.9	295.9
80°	1628.4	1467.2	987.8	578.5	389.8	322.6	301.2	294.1	284.4	272.9	265.8
82.5°	1305.8	1180.1	808.0	495.3	347.3	291.5	271.9	263.1	252.5	241.0	236.5
85°	1019.7	927.6	651.1	420.0	305.7	260.5	242.8	234.0	220.6	207.3	202.0
87.5°	786.7	719.4	522.7	353.5	267.5	230.3	212.6	202.0	189.6	176.4	171.9
90°	603.3	557.2	418.1	297.7	233.0	200.3	186.1	176.4	162.1	148.8	145.4
92.5°	462.5	431.5	335.8	250.7	199.3	175.5	163.1	152.4	138.2	124.9	122.3
95°	355.3	334.9	271.1	210.0	172.7	153.3	142.7	131.1	116.9	104.6	101.9
97.5°	275.6	261.3	218.8	177.2	149.6	133.8	124.9	113.4	99.2	87.7	86.0
100°	213.5	204.7	178.1	148.8	130.2	116.9	108.0	98.4	85.0	72.6	72.6
102.5°	166.5	161.2	146.2	127.7	113.4	103.7	95.7	85.0	71.8	62.1	61.1
105°	131.9	129.4	120.5	108.9	99.2	91.2	84.1	73.5	61.1	52.2	52.2
107.5°	105.4	104.6	100.1	93.0	86.9	80.7	74.4	63.8	52.2	45.3	45.3



REPORT NUMBER: P255009

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-FL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	86.0	86.0	84.1	79.8	76.2	70.9	64.7	55.8	44.2	39.0	39.0
112.5°	70.9	71.8	70.9	69.1	67.3	63.0	57.6	47.8	38.1	34.5	34.5
115°	59.3	60.2	60.2	60.2	59.3	55.8	50.5	41.6	32.8	30.1	30.1
117.5°	50.5	51.4	52.2	52.2	51.4	48.7	44.2	36.3	28.3	26.6	27.5
120°	43.3	44.2	45.3	46.1	45.3	43.3	38.1	31.0	24.8	23.9	23.9
122.5°	38.1	39.0	39.0	39.9	39.9	38.1	33.7	26.6	21.3	21.3	21.3
125°	32.8	33.7	34.5	34.5	35.4	32.8	28.3	22.2	18.6	18.6	19.4
127.5°	29.3	29.3	29.3	30.1	30.1	28.3	24.8	18.6	16.0	16.8	16.8
130°	25.6	25.6	26.6	26.6	26.6	24.8	20.4	16.0	14.2	15.1	15.1
132.5°	22.2	23.1	23.1	22.2	22.2	21.3	16.8	13.3	12.4	13.3	13.3
135°	19.4	20.4	20.4	18.6	18.6	16.8	14.2	10.6	11.5	11.5	12.4
137.5°	16.8	17.7	16.8	16.0	15.1	14.2	11.5	8.8	9.8	10.6	10.6
140°	14.2	14.2	14.2	13.3	12.4	10.6	8.8	7.1	8.8	8.8	8.8
142.5°	11.5	11.5	11.5	10.6	8.8	7.9	6.2	6.2	7.1	7.1	7.1
145°	8.8	8.8	8.8	7.9	6.2	5.4	4.5	4.5	5.4	6.2	6.2
147.5°	6.2	6.2	6.2	5.4	3.5	2.6	2.6	3.5	4.5	4.5	4.5
150°	4.5	4.5	4.5	3.5	2.6	1.7	1.7	2.6	2.6	3.5	3.5
152.5°	2.6	3.5	3.5	2.6	1.7	0.9	0.9	1.7	1.7	1.7	1.7
155°	1.7	1.7	2.6	1.7	1.7	0.9	0.0	0.0	0.9	0.9	0.9
157.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)