

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: P254361

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T4W-A-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)  
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-T4W-A-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7329.1 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

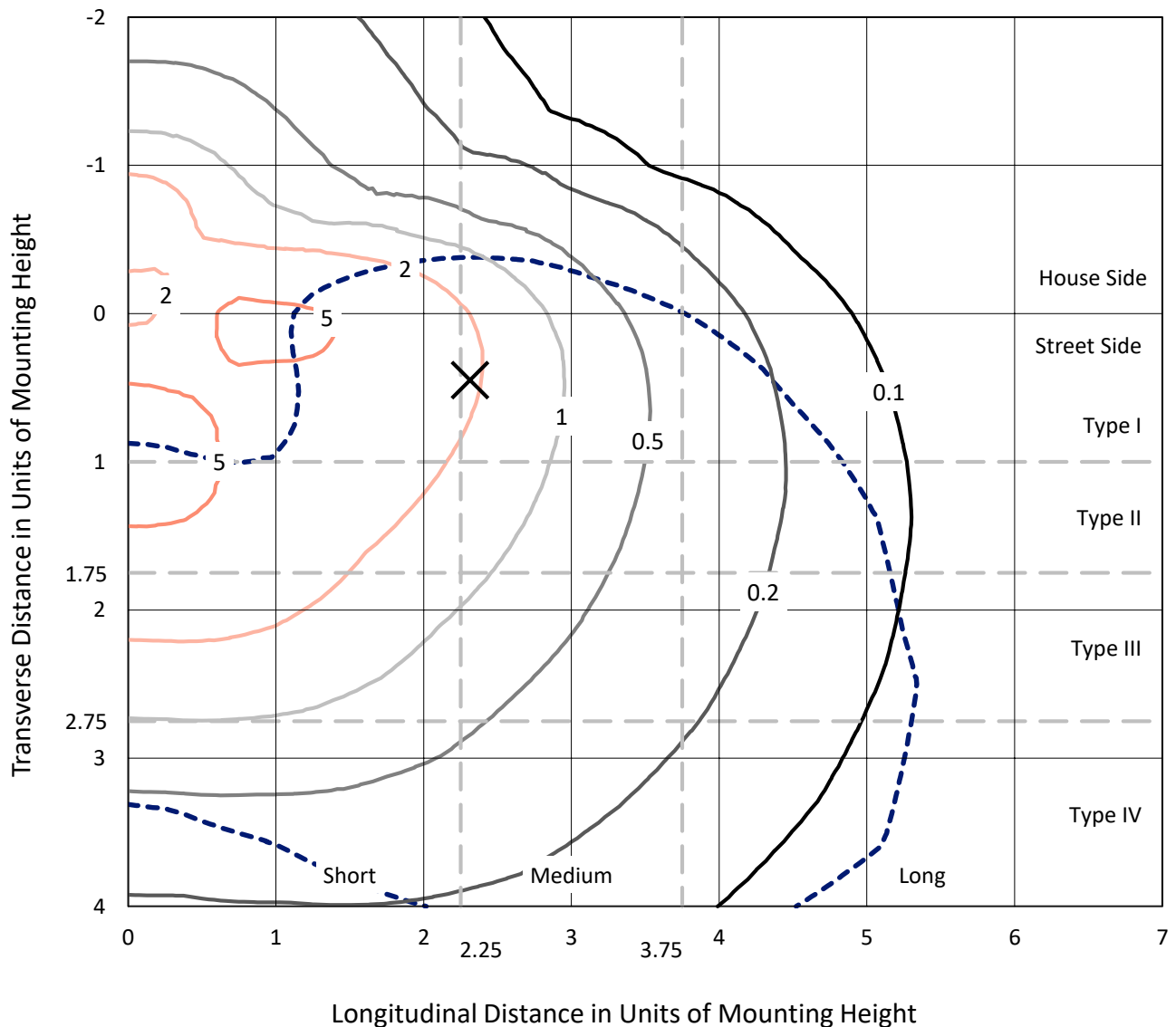


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

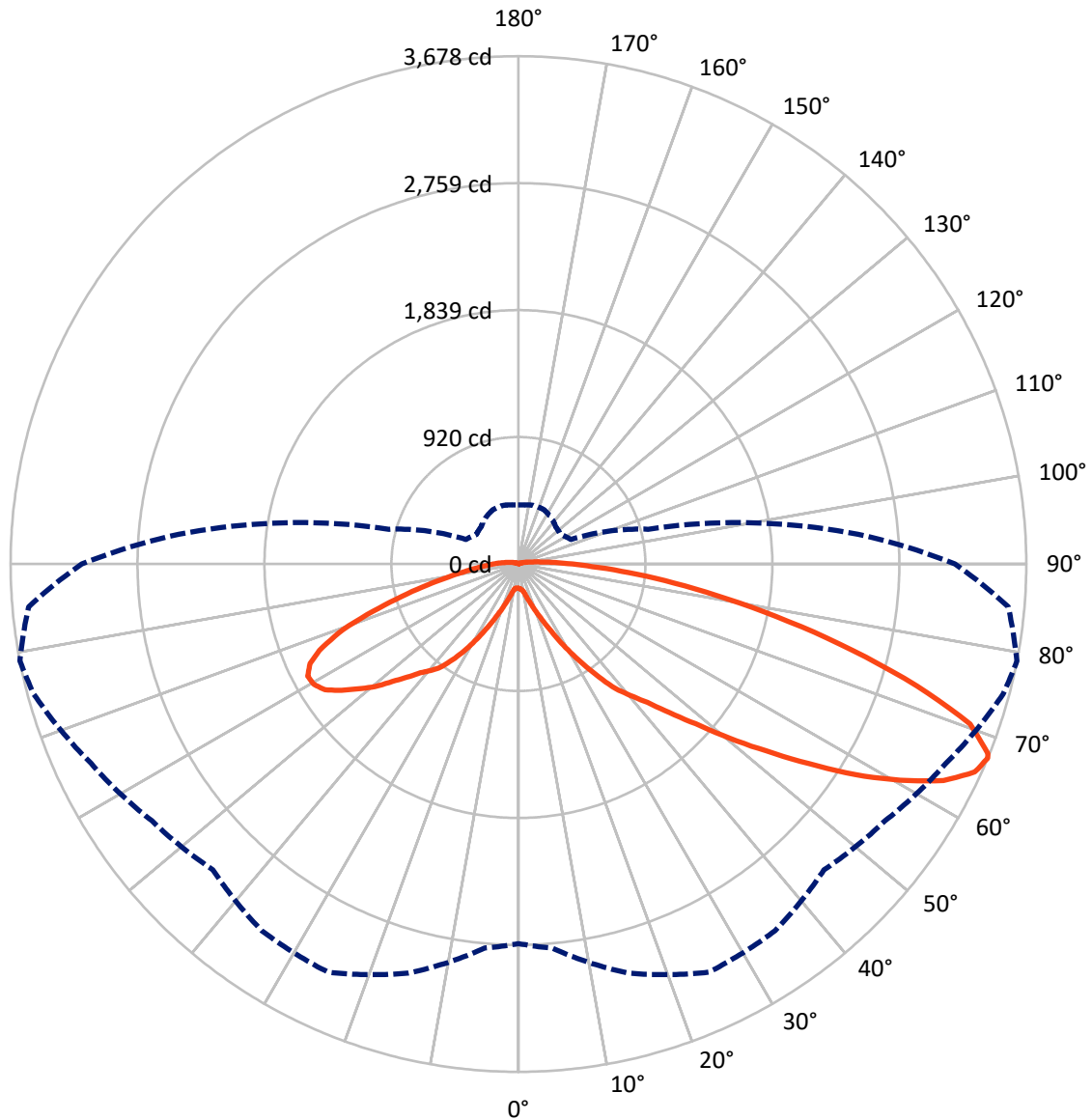


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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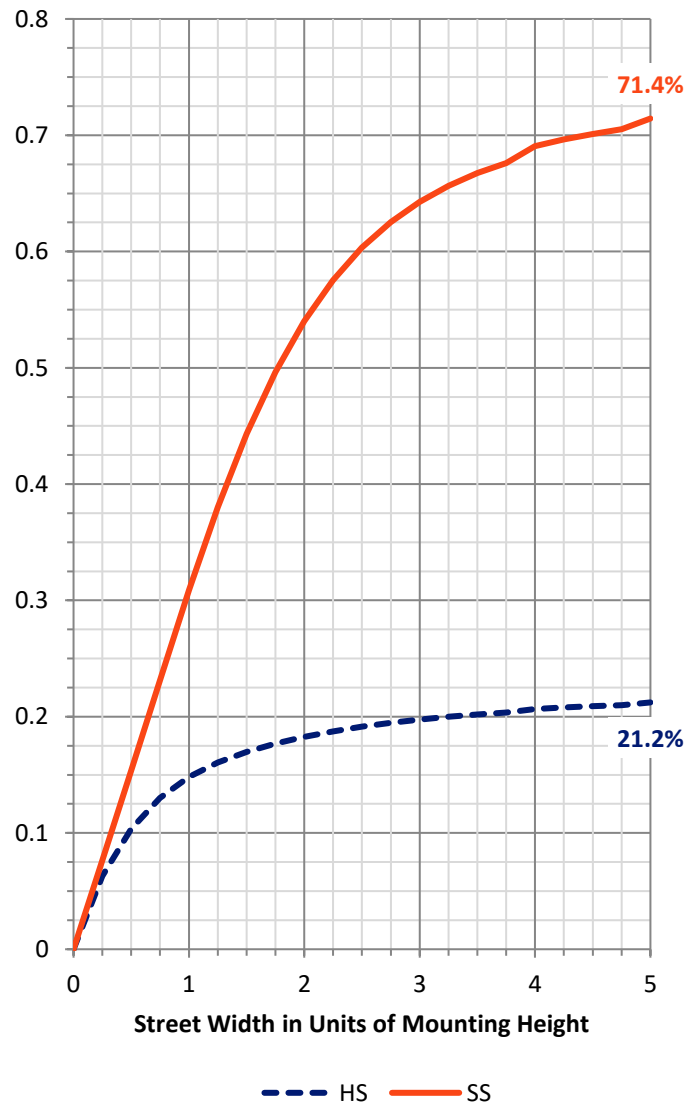
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.5	110.3	1744.7
	% Fixture	22.3	1.5	23.8
<b>Street Side</b>	Lumens	5431.5	152.9	5584.3
	% Fixture	74.1	2.1	76.2
<b>Total</b>	Lumens	7065.9	263.1	7329.1
	% Fixture	96.4	3.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.8	0.2
10°-20°	75.3	1.0
20°-30°	217.2	3.0
30°-40°	492.6	6.7
40°-50°	856.0	11.7
50°-60°	1371.5	18.7
60°-70°	1911.1	26.1
70°-80°	1509.6	20.6
80°-90°	614.8	8.4
90°-100°	175.3	2.4
100°-110°	52.2	0.7
110°-120°	20.2	0.3
120°-130°	9.7	0.1
130°-140°	4.4	0.1
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7065.9	96.4
0°-180°	7329.1	100.0

**Coefficient of Utilization**



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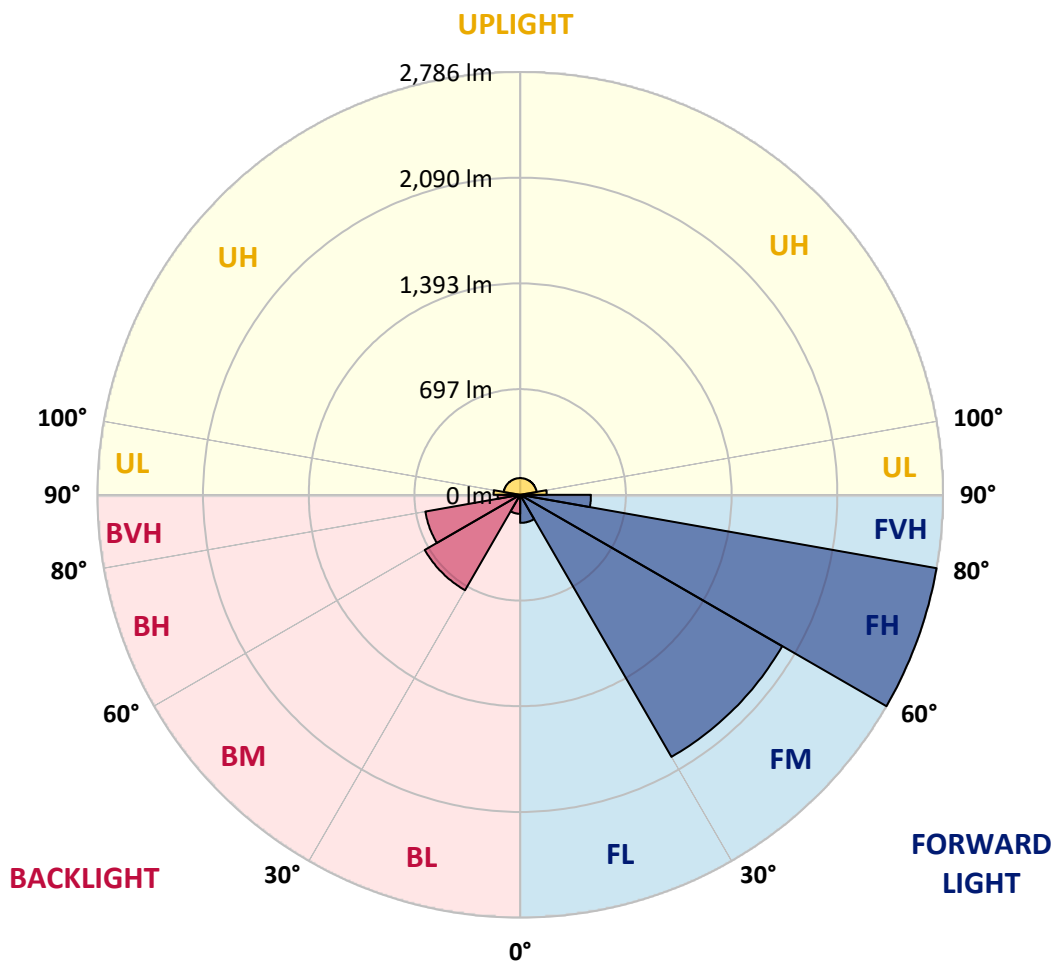
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.1	2.5			
FM (30°-60°)	1993.9	27.2			
FH (60°-80°)	2786.1	38.0			G2/5000
FVH (80°-90°)	466.4	6.4			G3/500
BL (0°-30°)	125.3	1.7	B1/500		
BM (30°-60°)	726.2	9.9	B1/1000		
BH (60°-80°)	634.6	8.7	B2/1000		G2/1000
BVH (80°-90°)	148.4	2.0			G2/225
UL (90°-100°)	175.3	2.4		U3/500	
UH (100°-180°)	110.3	1.5		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°	75°	79°	85°
0°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	187.8	187.8	188.7	188.7	188.7	187.0	184.3	181.6	179.8	178.9	177.2
5°	202.0	201.1	202.0	201.1	201.1	197.5	193.2	188.7	185.2	183.3	180.8
7.5°	222.4	222.4	221.5	219.7	218.0	211.8	204.7	199.3	194.1	190.4	187.8
10°	248.0	248.9	247.2	242.8	238.3	230.3	222.4	215.2	207.3	202.9	199.3
12.5°	287.9	287.9	284.4	274.7	264.0	254.2	245.4	238.3	234.8	230.3	226.8
15°	337.5	336.6	331.4	316.3	302.1	285.2	279.0	274.7	271.9	268.4	264.0
17.5°	395.9	395.1	385.3	365.0	342.8	330.4	320.6	316.3	318.1	314.4	311.0
20°	466.0	464.3	449.2	420.7	398.7	381.9	371.2	366.8	372.1	369.4	366.8
22.5°	555.5	551.0	529.8	489.1	463.4	435.8	426.1	424.4	436.7	436.7	436.7
25°	661.8	657.3	625.4	578.5	533.3	499.7	489.9	499.7	520.1	522.7	528.0
27.5°	784.9	779.6	740.7	675.1	614.8	569.7	561.7	581.1	613.1	625.4	630.8
30°	930.3	926.6	870.9	787.5	702.5	645.8	637.0	672.4	721.9	741.6	754.8
32.5°	1102.1	1097.6	1016.9	918.7	800.0	729.1	721.9	776.1	850.5	869.0	895.7
35°	1314.7	1310.2	1203.9	1066.6	908.9	817.7	817.7	887.7	979.0	1004.6	1037.4
37.5°	1528.2	1527.3	1420.2	1236.7	1029.4	915.1	916.9	997.5	1107.4	1147.2	1177.4
40°	1736.3	1738.2	1616.0	1405.9	1164.0	1022.3	1021.5	1103.0	1217.2	1251.8	1281.1
42.5°	1926.0	1925.0	1809.9	1585.8	1304.0	1138.4	1122.4	1202.2	1323.5	1370.5	1409.5
45°	2058.0	2067.7	1979.1	1747.9	1445.0	1258.8	1226.1	1314.7	1469.7	1534.4	1586.7
47.5°	2221.9	2222.8	2141.3	1900.2	1589.2	1383.8	1353.7	1465.2	1662.0	1729.3	1784.2
50°	2402.6	2411.5	2346.8	2091.7	1752.3	1524.6	1513.1	1653.9	1887.9	1982.6	2050.9
52.5°	2556.7	2567.4	2527.5	2310.5	1948.9	1705.4	1705.4	1884.2	2135.0	2248.4	2314.8
55°	2670.2	2687.9	2697.6	2520.4	2171.4	1917.1	1936.6	2137.6	2415.8	2551.4	2632.0
57.5°	2760.6	2785.3	2831.4	2707.3	2390.1	2171.4	2199.7	2414.9	2753.5	2880.1	2965.2
60°	2894.3	2922.5	3005.9	2907.6	2641.8	2445.1	2483.3	2718.0	3063.5	3177.8	3242.5
62.5°	2907.6	2942.2	3110.4	3124.6	2877.5	2712.7	2796.8	3027.1	3356.8	3456.0	3470.1
65°	2846.4	2891.6	3114.9	3244.2	3128.2	2963.3	3082.1	3293.8	3566.7	3632.3	3595.9
67°	2749.0	2792.4	3067.0	3261.9	3241.5	3130.9	3241.5	3416.1	3634.9	3678.3	3561.5
67.5°	2707.3	2749.0	3040.4	3258.4	3255.7	3160.0	3267.3	3442.6	3638.5	3667.8	3535.6
70°	2440.8	2498.3	2810.1	3145.0	3249.5	3186.6	3312.4	3433.8	3481.6	3471.0	3281.4
72.5°	1972.0	2026.1	2366.2	2835.0	3074.1	3042.3	3153.9	3175.9	3091.8	3019.2	2760.6
75°	1446.7	1470.6	1784.2	2288.3	2680.7	2717.1	2801.3	2751.7	2597.5	2501.0	2237.8
77.5°	1004.6	1028.5	1269.5	1732.9	2161.5	2297.1	2380.4	2307.8	2145.7	1997.7	1710.7
80°	665.3	677.7	866.4	1262.4	1695.6	1884.2	1956.1	1881.7	1676.1	1530.8	1258.8
82.5°	405.8	429.7	566.1	885.0	1311.1	1543.3	1595.5	1509.6	1287.2	1136.7	907.2
85°	243.6	256.0	362.3	597.9	964.8	1224.4	1274.0	1162.3	937.3	801.8	607.7
87.5°	150.6	155.9	227.7	387.1	676.9	914.3	967.4	835.4	632.5	534.2	406.7
90°	97.5	101.8	149.6	255.1	447.4	651.1	675.1	568.8	420.7	356.1	275.6
92.5°	65.5	69.1	101.8	169.3	294.1	426.9	444.6	375.7	278.2	237.4	187.8
95°	46.1	48.7	71.8	115.2	191.3	263.1	281.7	243.6	181.6	156.8	129.4
97.5°	35.4	37.2	54.1	83.2	129.4	170.1	177.2	158.5	123.1	108.0	93.9
100°	28.3	30.1	42.5	63.0	93.0	116.1	120.5	108.9	86.9	78.0	69.1
102.5°	24.8	24.8	34.5	49.6	70.0	86.0	86.9	78.0	63.8	57.6	53.2
105°	21.3	21.3	28.3	39.9	55.8	66.4	66.4	57.6	47.0	42.5	40.8
107.5°	17.7	18.6	23.9	31.9	44.2	53.2	51.4	42.5	33.7	31.0	30.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	15.1	16.0	20.3	26.6	36.3	43.3	40.8	32.8	24.8	23.1	23.1
112.5°	13.3	14.2	16.8	23.1	31.0	36.3	32.8	24.8	18.6	17.7	18.6
115°	12.4	12.4	15.1	20.3	26.6	30.1	27.5	20.3	15.1	14.2	15.1
117.5°	10.6	11.5	13.3	17.7	23.9	25.6	23.1	16.0	11.5	11.5	13.3
120°	10.6	10.6	12.4	16.0	21.3	23.1	19.4	13.3	9.8	9.8	11.5
122.5°	9.8	9.8	11.5	15.1	18.6	20.3	16.8	11.5	8.8	8.8	9.8
125°	9.8	9.8	11.5	14.2	16.8	16.8	14.2	9.8	7.9	7.9	8.8
127.5°	10.6	10.6	11.5	13.3	15.1	15.1	12.4	8.8	7.1	7.1	7.9
130°	10.6	10.6	10.6	12.4	13.3	12.4	10.6	7.9	7.1	7.1	7.9
132.5°	10.6	10.6	10.6	10.6	11.5	10.6	8.8	6.2	6.2	6.2	7.1
135°	9.8	9.8	8.8	9.8	9.8	7.9	6.2	4.5	5.4	5.4	6.2
137.5°	7.9	7.9	7.9	7.9	7.1	6.2	4.5	3.5	4.5	5.4	5.4
140°	7.1	7.1	6.2	6.2	5.4	4.5	2.6	3.5	4.5	4.5	4.5
142.5°	5.4	5.4	5.4	4.5	3.5	2.6	1.7	2.6	3.5	3.5	4.5
145°	3.5	3.5	3.5	2.6	1.7	0.9	1.7	1.7	2.6	3.5	3.5
147.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	1.7	2.6	2.6	2.6
150°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	1.7	2.6	2.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	176.4	175.4	172.7	171.0	169.3	168.4	167.3	167.3	166.5	165.6	165.6
5°	178.9	177.2	172.7	169.3	166.5	164.8	163.1	162.1	160.4	159.5	159.5
7.5°	184.3	181.6	176.4	170.1	165.6	163.1	161.2	159.5	157.7	157.7	157.7
10°	194.9	191.3	183.3	175.4	168.4	164.8	163.1	161.2	161.2	160.4	160.4
12.5°	221.5	216.2	202.9	188.7	176.4	171.0	169.3	173.6	178.9	179.8	182.5
15°	257.9	252.5	235.7	215.2	194.9	183.3	189.6	197.5	206.4	213.5	213.5
17.5°	302.9	296.7	273.7	245.4	220.6	213.5	215.2	226.8	239.2	245.4	246.3
20°	358.8	349.9	318.1	279.0	251.7	240.9	243.6	255.1	272.8	281.7	283.5
22.5°	428.8	415.5	373.0	318.1	284.4	270.2	272.8	287.1	311.0	323.4	327.8
25°	517.4	500.5	435.8	365.0	317.2	295.9	303.8	326.0	356.1	374.8	373.8
27.5°	619.3	592.6	512.1	413.8	349.9	320.6	333.1	364.2	400.4	421.7	424.4
30°	741.6	706.9	595.4	465.1	378.2	342.8	358.8	397.8	438.5	466.9	469.5
32.5°	877.1	836.3	680.3	516.5	401.3	359.7	377.4	426.1	473.1	506.8	507.6
35°	1016.1	963.8	761.0	560.8	420.7	373.0	391.5	447.4	502.3	541.3	544.0
37.5°	1149.1	1087.9	835.4	590.0	433.2	380.0	399.6	465.1	527.0	568.8	571.4
40°	1249.2	1173.9	881.5	599.8	435.8	383.6	406.7	472.2	527.0	559.0	560.8
42.5°	1374.9	1275.7	915.1	590.0	428.8	383.6	409.2	463.4	505.9	527.0	527.0
45°	1543.3	1421.0	966.5	578.5	414.6	381.0	402.2	443.8	472.2	482.8	482.8
47.5°	1744.4	1585.0	1018.9	570.6	403.9	374.8	391.5	419.9	435.0	435.8	434.1
50°	1998.6	1792.2	1083.6	559.0	397.8	368.5	381.9	400.4	409.2	405.8	403.9
52.5°	2241.4	1976.5	1129.5	544.8	394.2	365.9	376.5	392.5	395.1	384.5	381.9
55°	2531.1	2192.7	1161.4	521.8	390.7	367.6	376.5	389.8	388.0	373.8	371.2
57.5°	2819.9	2395.5	1189.9	501.4	387.1	370.3	380.0	391.5	388.0	374.8	372.1
60°	3041.3	2534.6	1173.9	480.2	383.6	374.8	386.2	397.8	397.8	387.1	386.2
62.5°	3215.0	2617.9	1135.8	458.1	381.0	378.2	394.2	411.1	414.6	406.7	405.8
65°	3254.0	2584.2	1062.2	436.7	377.4	381.0	405.0	426.1	428.8	420.7	419.9
67°	3162.7	2469.0	971.9	419.0	372.1	381.9	411.9	435.0	438.5	430.6	427.9
67.5°	3122.8	2423.8	948.8	414.6	370.3	381.9	412.8	435.8	440.4	432.3	429.7
70°	2817.2	2155.4	825.7	389.8	358.8	377.4	414.6	442.1	444.6	435.0	431.5
72.5°	2334.5	1738.2	683.1	365.9	344.6	365.9	408.4	437.7	436.7	422.7	419.9
75°	1850.7	1362.6	550.1	338.3	325.1	348.2	391.5	417.3	411.9	395.1	391.5
77.5°	1405.9	1018.9	447.4	311.0	302.9	325.1	363.2	381.9	371.2	355.2	351.7
80°	1002.0	733.5	364.2	285.2	279.0	298.6	327.8	337.5	330.4	315.4	311.0
82.5°	700.8	527.0	302.9	259.6	256.0	271.1	289.6	299.5	295.9	282.7	279.0
85°	484.6	368.5	255.1	234.0	232.0	242.8	254.2	260.5	263.1	256.0	251.7
87.5°	326.0	271.1	217.1	205.5	206.4	214.3	222.4	228.6	236.5	235.7	231.2
90°	232.9	202.9	181.6	176.4	178.1	187.0	190.4	194.1	203.8	203.8	201.1
92.5°	166.5	154.2	147.1	145.4	148.8	155.9	157.7	158.5	165.6	166.5	161.2
95°	118.8	112.5	115.2	116.9	120.5	126.6	125.7	123.1	126.6	126.6	122.3
97.5°	87.7	86.0	91.2	93.0	95.7	100.9	98.4	93.9	96.5	93.0	90.3
100°	67.3	67.3	73.5	74.4	76.2	78.8	78.0	74.4	75.3	70.9	69.1
102.5°	53.2	54.1	58.5	59.3	61.0	63.8	62.1	60.2	58.5	53.2	53.2
105°	41.6	42.5	46.1	47.0	48.7	51.4	50.5	47.8	45.3	40.8	40.8
107.5°	31.9	33.7	36.3	37.2	39.0	41.6	40.8	37.2	33.7	31.0	31.0



REPORT NUMBER: P254361

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T4W-A-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.8	26.6	29.3	30.1	31.0	33.7	31.9	28.3	25.6	23.9	23.9
112.5°	20.3	21.3	23.9	24.8	25.6	27.5	25.6	22.2	19.4	18.6	18.6
115°	16.8	17.7	19.4	20.3	22.2	22.2	20.3	16.8	15.1	15.1	15.1
117.5°	14.2	15.1	16.8	17.7	17.7	18.6	16.0	13.3	11.5	12.4	12.4
120°	12.4	12.4	14.2	14.2	15.1	15.1	13.3	10.6	8.8	9.8	10.6
122.5°	10.6	10.6	11.5	12.4	12.4	12.4	10.6	8.8	7.1	7.9	8.8
125°	8.8	9.8	9.8	10.6	10.6	10.6	8.8	7.1	6.2	7.1	7.1
127.5°	8.8	8.8	8.8	8.8	8.8	8.8	7.1	5.4	5.4	6.2	6.2
130°	7.9	7.9	7.9	7.9	7.1	6.2	5.4	3.5	4.5	5.4	5.4
132.5°	7.1	7.1	7.1	6.2	5.4	4.5	3.5	2.6	2.6	4.5	4.5
135°	6.2	6.2	5.4	4.5	3.5	2.6	1.7	1.7	1.7	3.5	3.5
137.5°	5.4	5.4	4.5	3.5	2.6	1.7	0.9	0.0	0.9	1.7	1.7
140°	5.4	5.4	4.5	2.6	1.7	0.9	0.0	0.0	0.0	0.9	0.9
142.5°	4.5	4.5	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.6	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.0	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)