

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: P266248

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T3-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-T3-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7277.7 lumens
Efficiency: N/A
Efficacy: 75.8 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): 96
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

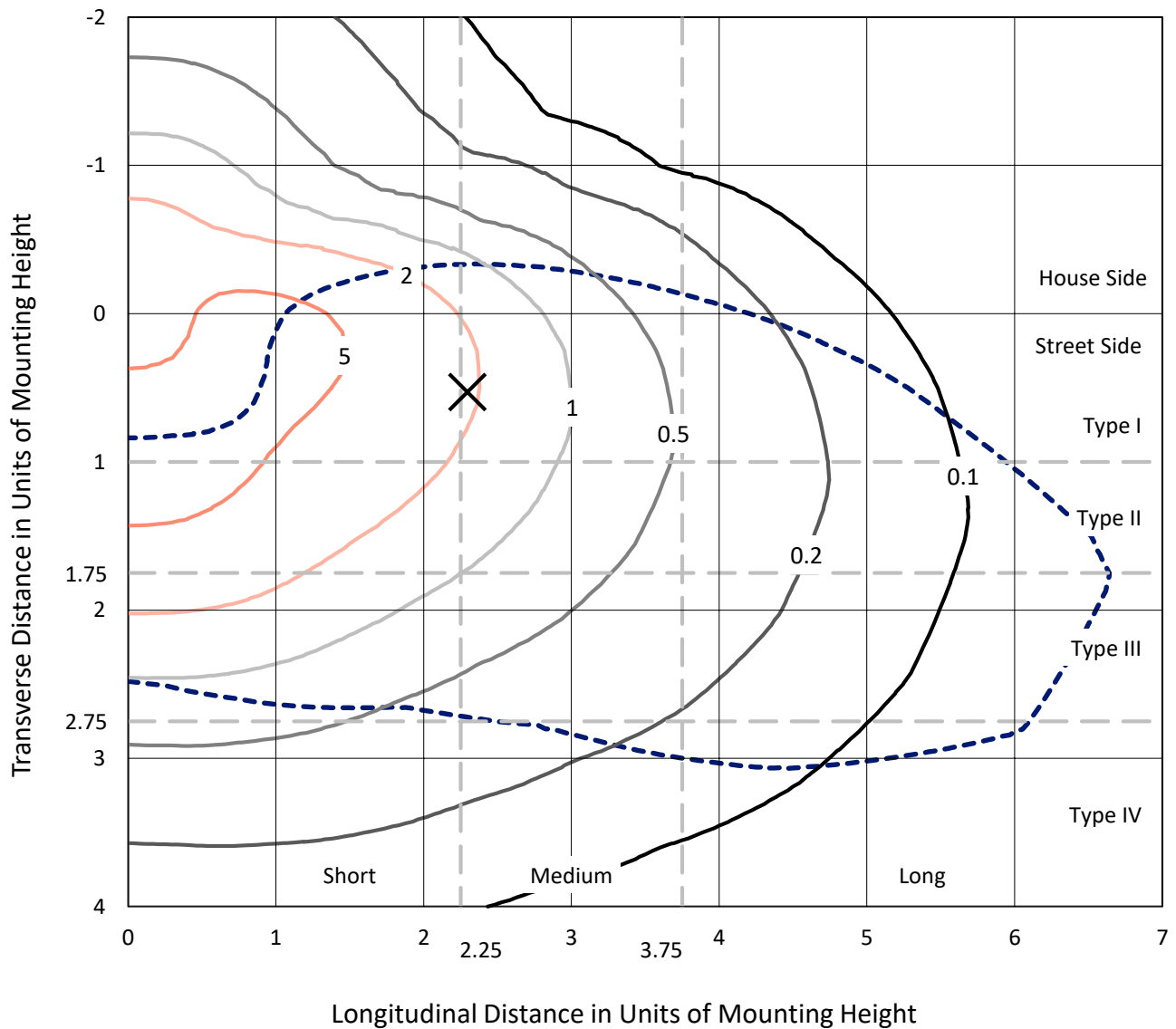


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

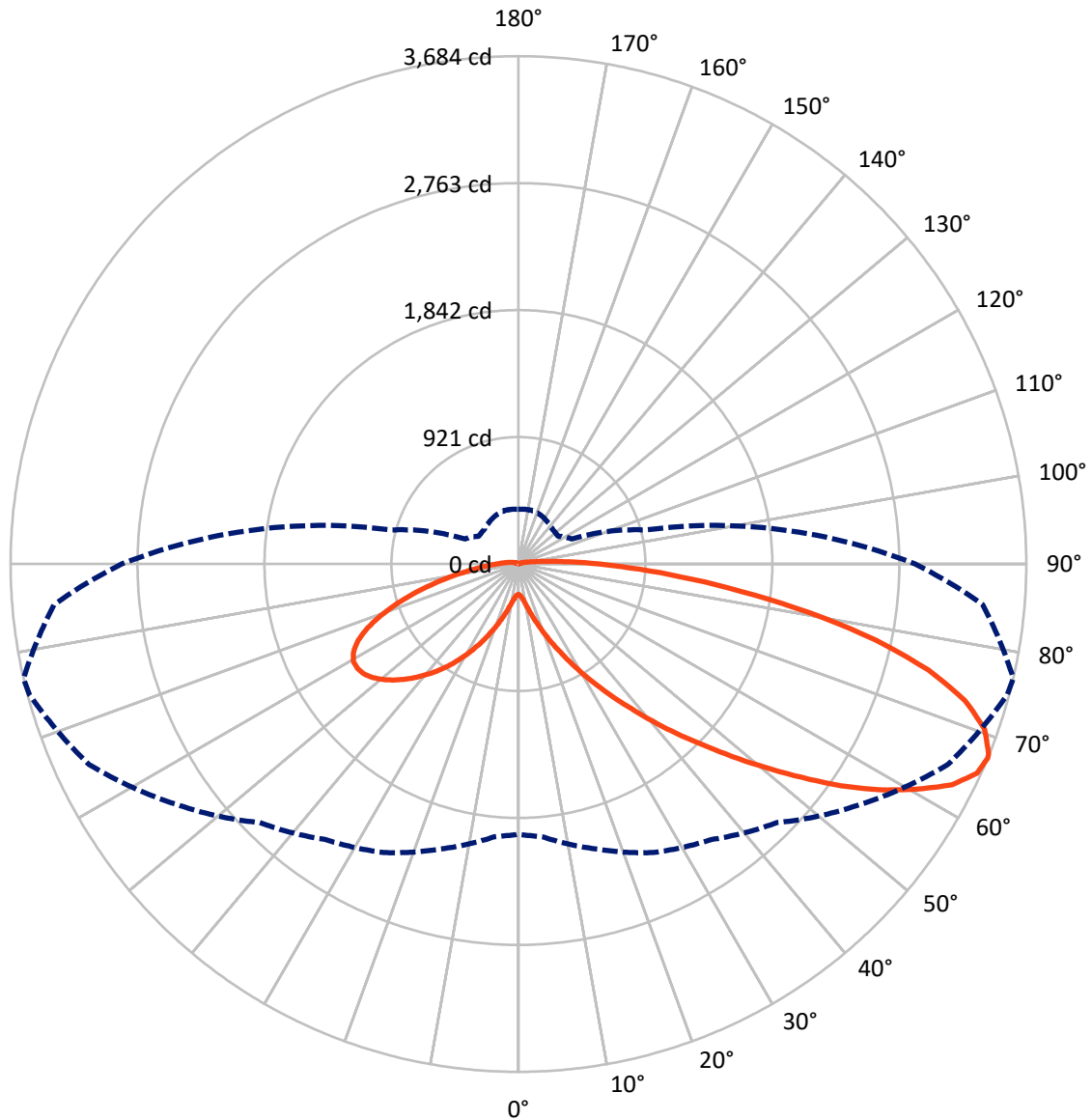


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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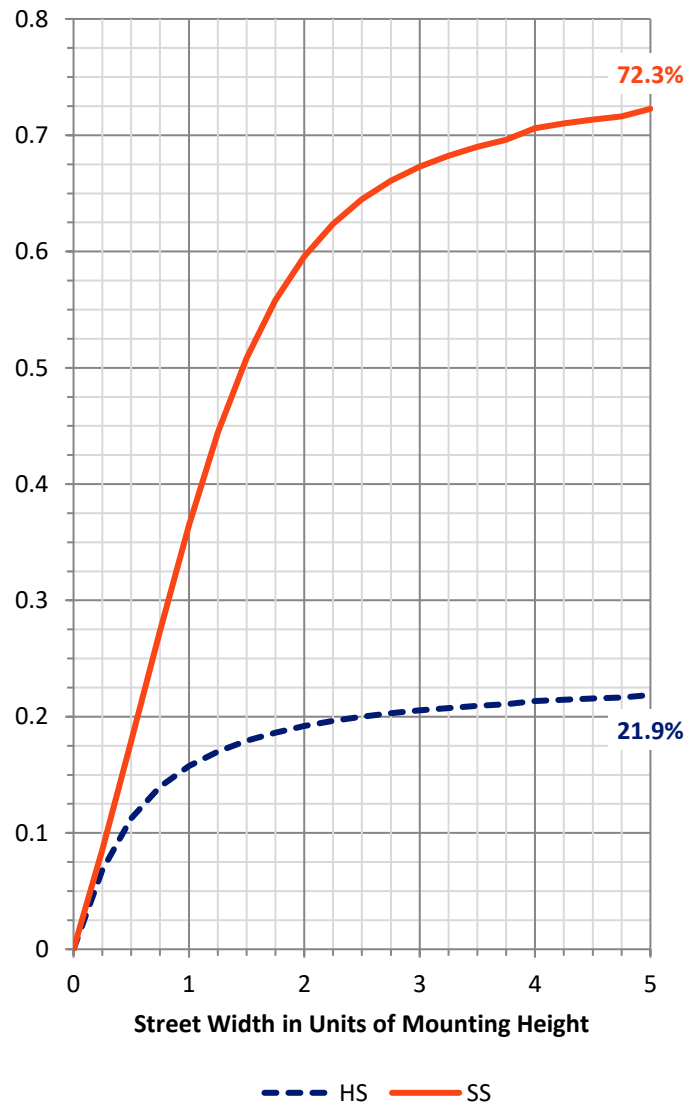
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.8	100.3	1762.2
	% Fixture	22.8	1.4	24.2
Street Side	Lumens	5395.9	119.6	5515.5
	% Fixture	74.1	1.6	75.8
Total	Lumens	7057.7	220.0	7277.7
	% Fixture	97.0	3.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.3
10°-20°	107.7	1.5
20°-30°	283.0	3.9
30°-40°	578.6	8.0
40°-50°	1003.0	13.8
50°-60°	1487.6	20.4
60°-70°	1726.3	23.7
70°-80°	1304.0	17.9
80°-90°	543.4	7.5
90°-100°	144.1	2.0
100°-110°	46.8	0.6
110°-120°	18.5	0.3
120°-130°	7.0	0.1
130°-140°	2.7	0.0
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7057.7	97.0
0°-180°	7277.7	100.0

Coefficient of Utilization



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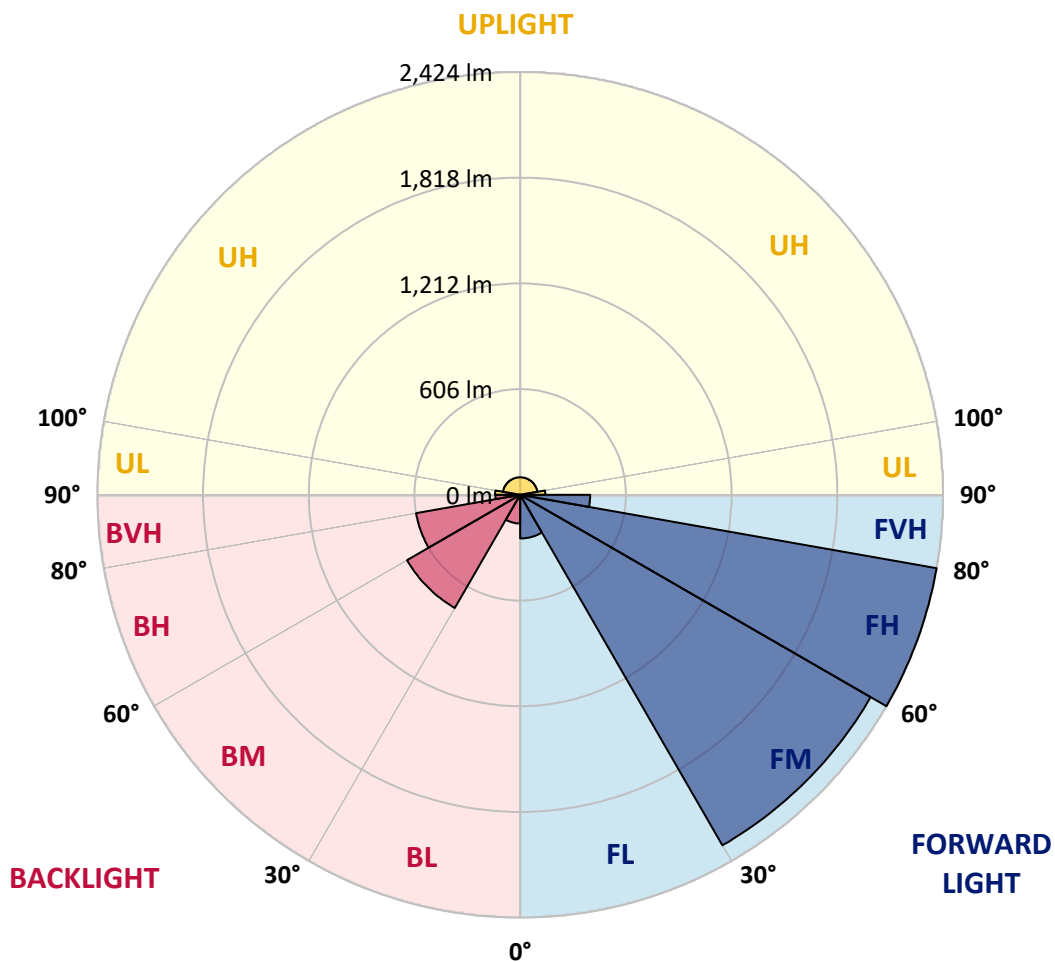
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.2	3.4			
FM (30°-60°)	2320.0	31.9			
FH (60°-80°)	2424.4	33.3			G2/5000
FVH (80°-90°)	401.4	5.5			G3/500
BL (0°-30°)	164.6	2.3	B1/500		
BM (30°-60°)	749.3	10.3	B1/1000		
BH (60°-80°)	605.9	8.3	B2/1000		G2/1000
BVH (80°-90°)	142.1	2.0			G2/225
UL (90°-100°)	144.1	2.0		U3/500	
UH (100°-180°)	100.3	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°	75°	77°	85°
0°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
2.5°	233.6	233.6	235.4	234.5	234.5	232.8	231.9	229.3	227.6	227.6	226.7
5°	251.0	251.0	252.0	252.9	251.0	250.2	247.7	244.1	241.6	241.6	239.8
7.5°	277.1	277.1	276.3	277.1	276.3	274.5	271.1	269.3	264.1	265.0	262.3
10°	314.4	314.4	312.8	314.4	310.2	308.4	305.9	303.2	297.1	298.9	294.6
12.5°	367.4	367.4	365.8	363.2	357.0	353.7	351.9	350.1	344.9	345.8	340.5
15°	430.9	430.1	428.3	424.9	415.2	411.0	406.7	404.0	399.7	401.5	396.2
17.5°	505.7	503.9	497.8	492.6	483.1	476.1	470.1	467.4	462.2	463.0	456.1
20°	591.7	589.8	582.1	574.2	560.4	550.8	544.7	538.7	533.5	538.7	525.6
22.5°	693.3	695.1	678.5	666.4	645.5	633.3	625.5	620.3	615.1	619.4	604.6
25°	809.7	808.8	790.6	775.0	745.5	724.6	713.3	709.8	707.1	710.6	700.3
27.5°	943.5	940.0	920.0	887.0	854.0	821.9	807.0	809.7	808.8	811.4	801.0
30°	1092.1	1090.4	1062.5	1015.7	972.1	928.8	914.8	913.9	921.8	927.1	906.2
32.5°	1256.3	1258.0	1220.6	1159.8	1095.6	1047.8	1034.8	1036.5	1047.0	1046.0	1030.4
35°	1437.8	1437.8	1398.8	1322.3	1237.1	1175.5	1160.7	1177.1	1183.2	1185.0	1161.6
37.5°	1631.6	1628.9	1592.5	1493.4	1396.1	1315.4	1289.2	1310.2	1333.7	1331.0	1306.7
40°	1839.2	1832.4	1784.6	1674.3	1556.0	1458.7	1429.2	1461.4	1495.1	1496.9	1467.4
42.5°	2037.4	2031.2	1981.8	1863.5	1722.0	1622.1	1589.0	1624.7	1673.4	1677.7	1624.7
45°	2223.2	2222.3	2177.2	2055.6	1901.0	1785.4	1752.4	1799.2	1867.0	1867.0	1811.4
47.5°	2398.7	2388.4	2358.8	2237.1	2091.3	1954.8	1922.6	1987.8	2081.6	2084.2	2019.1
50°	2533.4	2526.5	2511.8	2401.3	2252.8	2129.4	2099.9	2197.2	2306.7	2316.2	2236.3
52.5°	2626.4	2619.4	2630.7	2544.7	2411.0	2301.5	2290.9	2411.8	2554.3	2570.0	2474.3
55°	2662.8	2665.5	2701.9	2645.5	2539.5	2452.6	2490.0	2639.4	2807.9	2838.4	2713.2
57.5°	2644.6	2652.4	2716.7	2704.5	2630.7	2574.3	2672.4	2860.1	3062.5	3091.2	2947.9
60°	2549.0	2565.6	2660.3	2692.4	2664.6	2682.9	2834.1	3083.3	3304.1	3317.1	3172.9
62.5°	2393.5	2411.8	2536.1	2619.4	2637.7	2722.0	2952.2	3271.0	3504.7	3527.4	3317.1
65°	2172.9	2199.0	2337.1	2482.1	2555.0	2709.7	3029.5	3392.7	3632.4	3655.9	3390.1
67°	1959.2	1985.3	2138.1	2309.3	2439.5	2652.4	3035.6	3437.9	3669.8	3683.7	3380.5
67.5°	1901.0	1927.9	2080.7	2259.7	2403.1	2629.9	3030.3	3442.1	3669.8	3678.5	3367.4
70°	1583.0	1618.6	1774.2	1980.0	2169.3	2473.5	2953.8	3387.5	3604.7	3588.1	3208.4
72.5°	1252.0	1284.9	1437.0	1655.0	1872.2	2237.1	2782.0	3225.9	3406.6	3386.6	2947.0
75°	935.8	963.5	1109.4	1321.4	1551.7	1927.0	2512.6	2963.5	3091.2	3070.3	2585.5
77.5°	669.9	692.5	818.4	1013.0	1225.8	1589.0	2150.3	2591.6	2671.6	2647.2	2146.8
80°	460.6	487.4	577.8	751.5	934.0	1243.3	1734.1	2111.1	2166.8	2141.6	1677.7
82.5°	304.0	318.9	398.8	539.5	691.5	942.6	1325.8	1637.7	1685.5	1624.7	1244.2
85°	198.0	201.6	262.3	371.0	498.6	684.6	972.1	1203.3	1225.0	1179.8	885.3
87.5°	121.6	126.8	169.4	243.4	344.1	482.2	687.3	841.1	844.4	807.9	597.7
90°	78.2	81.7	108.5	158.1	233.6	328.4	463.0	558.7	556.1	527.3	381.4
92.5°	53.9	55.7	75.5	108.5	152.1	216.3	297.1	352.8	347.6	331.0	240.7
95°	39.0	40.9	55.7	79.1	106.0	142.6	185.1	213.7	207.7	197.2	151.2
97.5°	28.7	30.5	42.6	59.9	79.1	98.2	119.0	127.6	126.0	120.7	100.8
100°	21.6	23.4	33.0	46.9	61.7	73.0	83.5	84.4	81.7	79.9	73.0
102.5°	18.2	19.1	26.9	39.0	50.3	58.2	62.5	61.7	58.2	57.3	53.9
105°	15.6	16.4	23.4	33.0	41.7	48.7	50.3	47.8	43.5	42.6	40.9
107.5°	14.0	14.0	20.0	28.7	36.6	40.9	41.7	37.4	32.2	31.4	30.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	12.1	12.1	17.3	24.3	31.4	34.8	34.8	29.6	22.5	21.6	22.5
112.5°	10.4	11.3	14.7	20.8	26.9	29.6	28.7	23.4	16.4	15.6	16.4
115°	9.5	9.5	13.0	18.2	22.5	25.2	23.4	17.3	12.1	11.3	12.1
117.5°	8.8	8.8	11.3	15.6	19.1	20.8	19.1	14.0	8.8	8.8	9.5
120°	7.8	7.8	9.5	13.0	16.4	17.3	14.7	10.4	6.9	6.9	7.8
122.5°	6.9	6.9	8.8	11.3	14.0	14.0	12.1	7.8	5.2	5.2	6.1
125°	6.1	6.9	7.8	9.5	11.3	11.3	9.5	6.1	4.3	5.2	6.1
127.5°	6.1	6.1	6.9	7.8	9.5	9.5	7.8	4.3	4.3	4.3	5.2
130°	5.2	5.2	6.1	6.9	7.8	7.8	6.1	3.5	4.3	4.3	5.2
132.5°	5.2	5.2	5.2	6.1	6.1	6.1	4.3	3.5	3.5	4.3	4.3
135°	4.3	4.3	4.3	5.2	5.2	4.3	2.6	2.6	3.5	3.5	4.3
137.5°	3.5	3.5	4.3	3.5	3.5	3.5	2.6	2.6	3.5	3.5	3.5
140°	3.5	3.5	3.5	2.6	2.6	1.7	1.7	2.6	2.6	3.5	3.5
142.5°	1.7	2.6	2.6	1.7	1.7	0.9	1.7	1.7	2.6	2.6	2.6
145°	0.9	0.9	1.7	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6
147.5°	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7	1.7
150°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	1.7	1.7	1.7
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
2.5°	225.8	225.0	222.4	220.7	219.8	218.9	218.1	217.2	217.2	217.2	217.2
5°	238.1	237.2	232.8	229.3	226.7	224.1	222.4	220.7	219.8	218.9	218.1
7.5°	259.8	257.2	252.0	245.9	239.8	234.5	231.1	229.3	226.7	225.8	225.0
10°	291.9	289.3	279.7	269.3	259.8	252.0	245.9	242.5	240.7	238.9	238.9
12.5°	336.2	334.4	318.0	305.0	286.6	274.5	267.5	265.0	264.1	262.3	263.3
15°	389.2	385.7	364.1	344.1	319.7	305.0	294.6	290.2	288.4	285.8	286.6
17.5°	450.1	438.7	413.6	383.1	353.7	335.3	321.5	313.7	311.1	309.2	310.2
20°	517.0	505.7	467.4	424.0	388.3	364.9	345.8	336.2	332.7	332.7	332.7
22.5°	594.3	579.4	526.4	468.2	421.3	388.3	366.7	357.0	353.7	353.7	354.6
25°	682.9	658.5	590.7	515.2	452.7	408.3	385.7	375.3	372.6	372.6	373.5
27.5°	779.3	746.3	656.8	557.8	475.3	422.3	397.9	389.2	387.4	387.4	388.3
30°	884.4	841.1	724.6	595.9	492.6	430.9	404.9	397.9	397.1	397.9	397.9
32.5°	995.6	946.2	791.4	628.2	503.9	435.3	409.2	404.9	404.0	405.8	404.0
35°	1116.5	1050.4	858.4	654.1	510.9	436.1	411.0	408.3	408.3	407.6	406.7
37.5°	1246.7	1159.0	920.0	673.3	510.9	434.4	410.0	409.2	409.2	407.6	405.8
40°	1396.1	1277.1	977.4	684.6	505.7	429.2	408.3	408.3	407.6	404.0	402.3
42.5°	1541.2	1399.6	1032.2	686.3	496.9	422.3	405.8	407.6	405.8	398.8	397.1
45°	1702.8	1532.6	1080.8	683.7	484.7	415.2	403.1	406.7	403.1	394.4	392.6
47.5°	1890.6	1675.9	1123.4	673.3	469.2	407.6	399.7	404.0	402.3	391.8	390.1
50°	2083.3	1819.2	1157.2	658.5	453.6	400.6	397.1	403.1	401.5	390.1	388.3
52.5°	2285.0	1967.8	1181.6	635.1	437.0	393.5	394.4	402.3	402.3	390.9	389.2
55°	2484.7	2102.6	1192.9	605.5	419.6	387.4	391.8	402.3	404.9	393.5	391.8
57.5°	2669.0	2211.1	1186.8	571.7	403.1	380.5	390.1	401.5	406.7	396.2	394.4
60°	2822.7	2306.7	1160.7	535.2	389.2	374.5	387.4	401.5	407.6	399.7	397.9
62.5°	2916.5	2340.5	1107.7	496.0	375.3	367.4	383.1	399.7	406.7	400.6	398.8
65°	2934.9	2314.5	1032.2	458.8	362.2	359.7	376.2	394.4	404.0	400.6	397.9
67°	2877.5	2237.1	953.1	429.2	351.0	351.9	370.1	389.2	400.6	399.7	396.2
67.5°	2852.3	2208.6	933.1	421.3	349.3	349.3	368.3	387.4	399.7	398.8	396.2
70°	2683.7	2036.5	818.4	384.8	335.3	337.9	357.0	378.7	391.8	392.6	390.9
72.5°	2415.3	1795.8	702.8	350.1	319.7	323.2	342.3	364.1	378.7	380.5	377.9
75°	2061.7	1512.6	588.2	318.9	302.3	305.0	324.1	344.9	360.6	363.2	360.6
77.5°	1704.5	1210.2	480.5	289.3	281.4	285.8	302.3	321.5	336.2	337.9	336.2
80°	1304.1	918.2	383.1	261.4	258.9	263.3	277.1	293.7	306.7	308.4	306.7
82.5°	957.5	673.3	303.2	233.6	232.8	237.2	248.6	264.1	274.5	275.4	272.7
85°	682.9	475.3	241.6	203.2	205.1	206.8	217.2	229.3	238.1	238.9	233.6
87.5°	457.9	324.1	188.6	174.6	176.3	176.3	182.4	192.9	199.0	198.0	193.8
90°	298.9	220.7	152.1	148.6	149.5	149.5	152.1	159.0	164.2	161.5	159.0
92.5°	192.9	154.7	125.1	126.8	126.8	125.1	126.0	131.2	133.8	131.2	129.4
95°	131.2	113.8	104.3	106.9	107.7	104.3	104.3	106.9	108.5	105.1	102.5
97.5°	94.7	87.8	86.0	90.4	89.6	86.9	85.1	86.0	86.9	82.6	80.8
100°	71.2	69.4	70.3	75.5	74.6	72.1	70.3	69.4	68.6	64.3	63.4
102.5°	55.7	54.7	58.2	62.5	61.7	59.1	57.3	56.5	54.7	49.5	49.5
105°	42.6	43.5	47.8	52.1	51.3	49.5	47.8	46.1	42.6	38.2	38.2
107.5°	32.2	33.9	39.0	43.5	42.6	40.9	39.0	37.4	33.0	29.6	29.6



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CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.3	26.1	31.4	35.7	34.8	33.9	32.2	29.6	25.2	22.5	21.6
112.5°	18.2	20.0	25.2	28.7	28.7	27.8	26.1	23.4	19.1	17.3	16.4
115°	14.0	15.6	20.0	22.5	22.5	21.6	20.8	18.2	14.0	13.0	13.0
117.5°	11.3	12.1	15.6	18.2	18.2	17.3	16.4	14.0	10.4	10.4	10.4
120°	8.8	9.5	12.1	14.0	14.0	13.0	12.1	10.4	7.8	7.8	7.8
122.5°	7.8	7.8	9.5	11.3	10.4	10.4	9.5	7.8	6.1	6.1	6.1
125°	6.1	6.9	7.8	8.8	7.8	7.8	6.9	6.1	5.2	5.2	5.2
127.5°	6.1	6.1	6.1	6.1	6.1	6.1	5.2	4.3	3.5	4.3	4.3
130°	5.2	5.2	5.2	5.2	4.3	4.3	3.5	2.6	2.6	3.5	3.5
132.5°	5.2	5.2	5.2	4.3	3.5	2.6	2.6	1.7	2.6	2.6	2.6
135°	4.3	4.3	4.3	3.5	2.6	1.7	0.9	0.9	1.7	1.7	1.7
137.5°	4.3	4.3	3.5	3.5	2.6	0.9	0.0	0.9	0.9	0.9	0.9
140°	3.5	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.9	0.9	0.0
142.5°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.9	0.0	0.0
145°	2.6	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	1.7	0.9	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°	0.9	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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	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)