

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: P266235

Luminaire Tested: **LXF.LXT-AF24-100-D-U-SL3-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-31)
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-SL3-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6869.4 lumens
Efficiency: N/A
Efficacy: 71.6 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 - G4

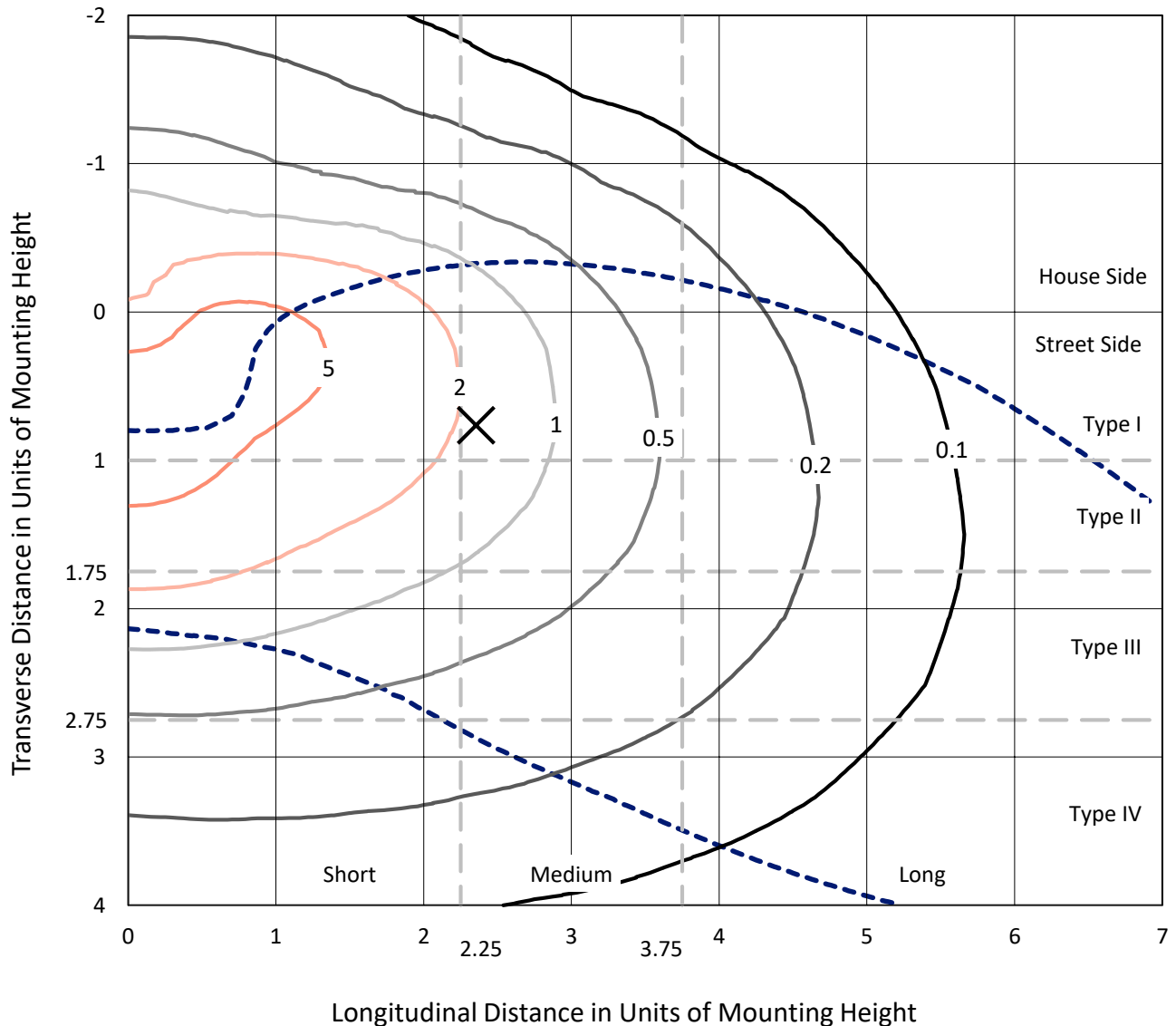
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

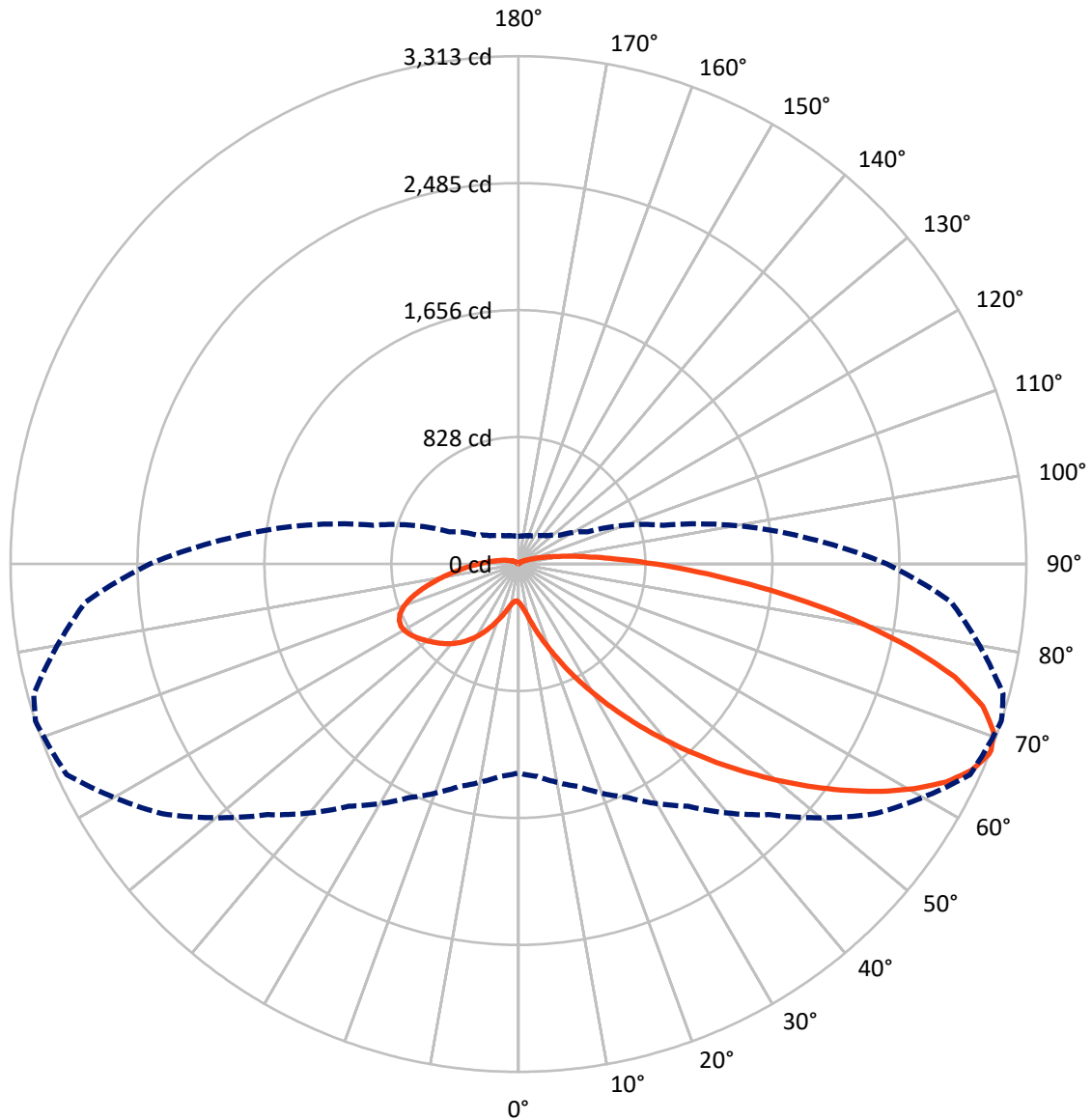
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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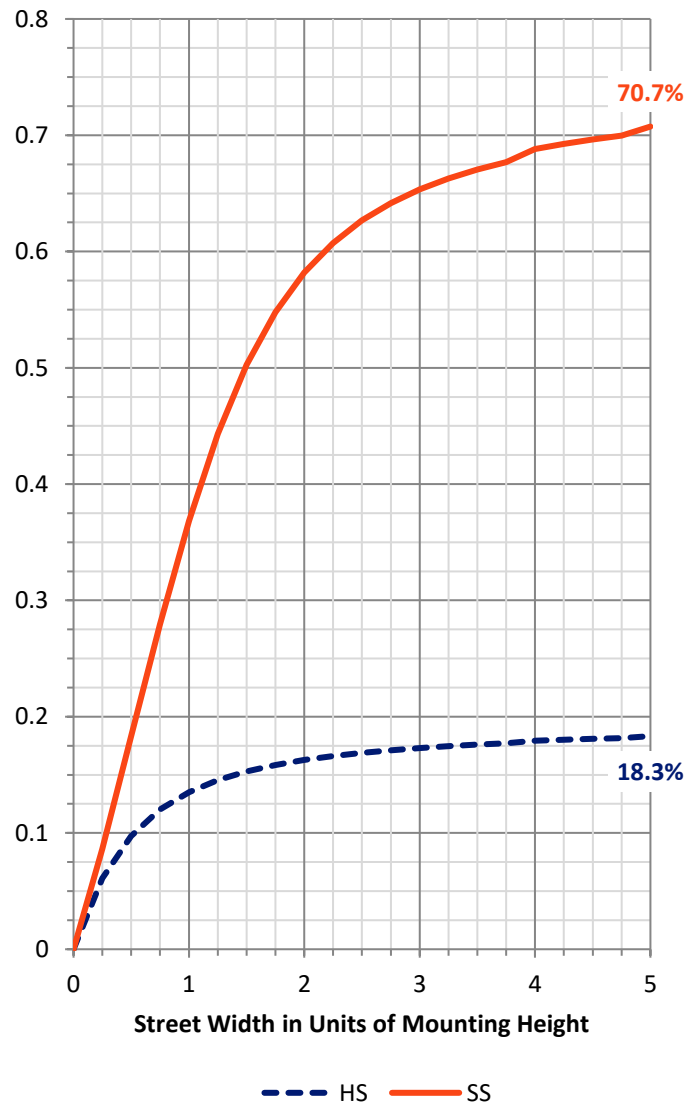
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.2	157.2	1477.4
	% Fixture	19.2	2.3	21.5
Street Side	Lumens	5067.8	324.2	5391.9
	% Fixture	73.8	4.7	78.5
Total	Lumens	6387.9	481.4	6869.4
	% Fixture	93.0	7.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.4
10°-20°	109.1	1.6
20°-30°	269.7	3.9
30°-40°	527.7	7.7
40°-50°	879.4	12.8
50°-60°	1252.7	18.2
60°-70°	1451.3	21.1
70°-80°	1212.0	17.6
80°-90°	659.8	9.6
90°-100°	277.0	4.0
100°-110°	115.3	1.7
110°-120°	52.0	0.8
120°-130°	24.3	0.4
130°-140°	10.1	0.1
140°-150°	2.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6387.9	93.0
0°-180°	6869.4	100.0

Coefficient of Utilization



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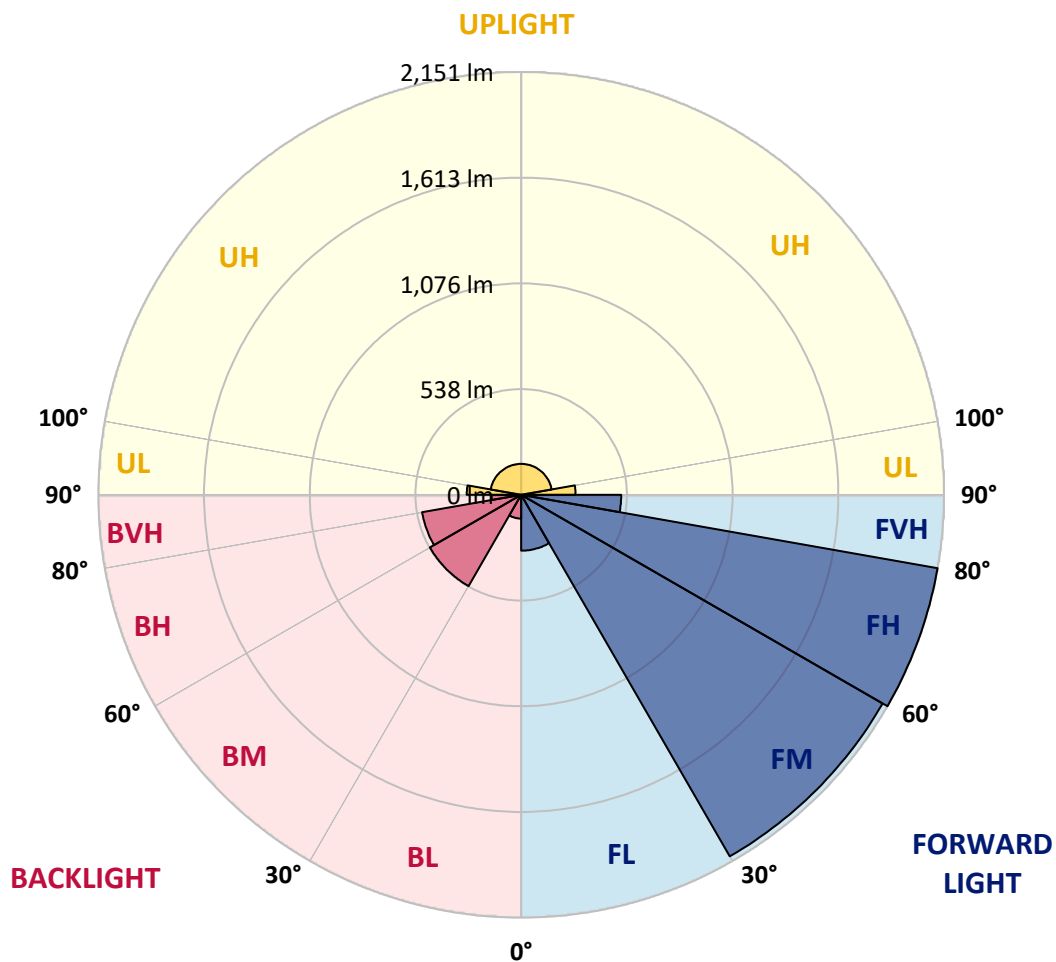
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.2	4.1			
FM	(30°-60°)	2123.6	30.9			
FH	(60°-80°)	2151.3	31.3			G2/5000
FVH	(80°-90°)	508.7	7.4			G4/750
BL	(0°-30°)	120.9	1.8	B1/500		
BM	(30°-60°)	536.1	7.8	B1/1000		
BH	(60°-80°)	512.0	7.5	B2/1000		G2/1000
BVH	(80°-90°)	151.1	2.2			G2/225
UL	(90°-100°)	277.0	4.0		U3/500	
UH	(100°-180°)	157.2	2.3		U3/500	

BUG Rating: B2-U3-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	285.8	285.8	286.6	284.1	281.4	279.0	272.8	267.5	263.3	260.7	255.5
5°	324.9	325.8	324.1	321.5	317.1	311.1	302.4	291.9	283.2	281.4	269.3
7.5°	371.0	371.0	369.3	364.9	359.7	351.0	337.9	324.1	311.9	309.2	291.1
10°	424.0	424.0	423.1	416.2	408.3	397.9	382.3	367.4	351.0	345.8	321.5
12.5°	486.5	485.7	483.1	474.3	464.9	451.8	434.4	416.2	400.6	394.4	364.9
15°	554.3	554.3	550.8	539.5	528.3	512.7	496.9	481.3	461.3	454.5	417.1
17.5°	629.1	628.2	621.2	610.8	595.1	583.0	568.2	549.9	528.3	519.6	476.1
20°	713.3	710.6	701.1	687.3	673.3	657.6	642.9	617.8	599.4	594.3	543.8
22.5°	808.8	804.5	792.3	773.3	756.7	737.6	722.0	700.3	683.8	674.2	624.7
25°	915.7	913.9	899.3	867.9	844.4	822.8	807.1	796.6	782.0	768.1	710.6
27.5°	1032.2	1027.8	1003.4	972.2	935.8	911.4	896.6	888.9	880.1	872.3	805.4
30°	1157.2	1154.6	1122.5	1083.4	1034.8	1003.4	993.0	994.0	992.2	984.4	910.5
32.5°	1292.8	1291.0	1251.1	1201.6	1140.8	1099.0	1096.4	1109.4	1112.1	1106.9	1023.4
35°	1437.8	1436.2	1390.0	1328.5	1252.0	1203.3	1206.9	1231.9	1243.3	1238.9	1144.3
37.5°	1585.6	1583.8	1536.1	1460.5	1366.6	1311.0	1321.4	1363.2	1384.8	1381.5	1272.8
40°	1748.0	1732.4	1683.0	1592.5	1485.6	1424.1	1447.4	1503.0	1535.3	1523.0	1407.5
42.5°	1888.7	1877.5	1823.6	1722.9	1606.4	1549.9	1578.6	1651.7	1695.0	1691.6	1551.7
45°	2013.0	2007.8	1954.8	1847.2	1727.3	1670.8	1716.8	1810.7	1864.5	1854.9	1703.7
47.5°	2125.1	2116.4	2067.8	1959.3	1838.4	1797.6	1860.1	1973.9	2040.9	2034.8	1861.0
50°	2200.7	2197.3	2154.7	2051.3	1941.7	1907.0	2010.4	2151.3	2226.8	2219.8	2024.3
52.5°	2235.4	2234.7	2206.0	2119.0	2030.3	2035.6	2163.4	2332.8	2416.3	2413.6	2193.8
55°	2224.2	2223.3	2212.9	2155.6	2100.0	2142.5	2316.3	2517.8	2608.1	2606.4	2358.1
57.5°	2157.3	2160.8	2174.6	2153.7	2146.1	2240.7	2464.1	2698.6	2797.6	2792.4	2518.7
60°	2029.6	2037.4	2081.7	2107.8	2158.9	2310.3	2600.4	2876.6	2974.0	2965.2	2664.6
62.5°	1854.0	1872.2	1938.4	2017.5	2132.9	2357.2	2722.0	3034.7	3131.2	3112.9	2766.3
65°	1644.6	1665.5	1755.0	1885.4	2067.8	2364.1	2808.9	3164.2	3247.6	3224.1	2836.7
67.5°	1411.9	1437.8	1546.5	1717.6	1957.4	2326.7	2840.3	3244.1	3310.3	3272.9	2843.7
68°	1364.0	1390.0	1502.1	1680.3	1928.8	2311.9	2839.4	3251.1	3312.8	3272.9	2833.3
70°	1178.0	1206.0	1328.5	1525.6	1814.9	2238.0	2805.3	3243.3	3289.4	3240.6	2763.7
72.5°	966.1	994.0	1117.3	1326.6	1640.3	2086.0	2686.4	3146.0	3167.8	3110.4	2596.0
75°	775.9	804.5	923.5	1134.6	1450.9	1905.3	2489.2	2942.7	2938.4	2871.4	2343.1
77.5°	614.3	640.3	753.3	953.1	1256.3	1684.6	2235.4	2639.5	2610.8	2540.4	2021.7
80°	483.1	506.6	609.1	792.3	1068.7	1453.5	1932.3	2270.2	2222.4	2150.4	1676.0
82.5°	377.1	398.8	489.1	651.6	895.8	1228.5	1606.4	1880.2	1814.0	1748.0	1344.0
85°	294.6	311.9	391.8	531.6	740.3	1015.7	1321.4	1501.2	1431.8	1374.4	1047.9
87.5°	230.2	245.0	312.8	431.7	610.8	825.5	1053.9	1169.5	1104.2	1057.3	803.7
90°	180.6	191.1	252.0	350.1	492.6	665.6	828.0	897.4	839.2	802.7	613.5
92.5°	143.4	151.2	200.7	284.1	397.1	528.3	641.2	680.2	631.6	604.6	465.7
95°	114.7	120.7	162.5	232.0	323.2	417.9	493.4	513.6	475.3	454.5	353.7
97.5°	93.9	98.2	133.8	188.6	258.9	332.0	382.3	390.1	358.9	343.2	270.2
100°	78.2	80.8	110.3	156.3	210.3	264.1	298.0	298.9	272.8	259.8	205.9
102.5°	66.0	67.7	92.0	130.3	173.7	212.0	234.5	230.2	206.8	196.4	158.1
105°	56.5	58.2	77.3	109.5	145.0	172.0	185.1	178.1	158.1	150.2	122.4
107.5°	49.5	50.3	65.1	92.0	121.6	141.7	149.5	139.9	122.4	115.5	96.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
110°	43.5	44.2	55.7	79.1	102.5	119.0	121.6	110.3	95.6	90.4	77.3
112.5°	38.2	39.0	48.7	67.0	87.8	99.9	100.8	88.7	75.5	71.2	62.5
115°	34.8	35.7	42.6	57.3	74.6	84.4	83.5	71.2	59.9	56.5	51.3
117.5°	32.2	33.0	38.2	49.5	64.3	71.2	69.4	58.2	48.7	46.1	43.5
120°	29.6	30.5	33.9	42.6	54.7	60.8	57.3	46.9	40.0	38.2	36.6
122.5°	27.8	27.8	30.5	37.4	46.9	51.3	47.8	39.0	33.0	31.4	31.4
125°	25.2	26.1	27.8	32.2	40.0	43.5	40.0	32.2	26.9	26.9	26.9
127.5°	24.3	24.3	25.2	28.7	33.9	36.6	33.0	26.1	22.5	22.5	23.4
130°	22.5	22.5	22.5	25.2	28.7	29.6	26.1	20.8	19.1	19.1	20.0
132.5°	20.8	20.8	20.8	21.6	23.4	23.4	20.8	17.3	16.4	16.4	17.3
135°	19.1	19.1	18.2	18.2	19.1	18.2	16.4	14.0	13.0	14.0	14.7
137.5°	16.4	16.4	16.4	15.6	14.7	14.0	11.3	10.4	10.4	11.3	12.1
140°	14.0	14.0	14.0	12.1	11.3	9.5	7.8	6.9	7.8	8.8	9.5
142.5°	11.3	11.3	11.3	9.5	7.8	6.1	4.3	4.3	5.2	6.1	6.9
145°	8.8	8.8	8.8	6.9	5.2	3.5	2.6	3.5	4.3	4.3	5.2
147.5°	6.1	6.1	6.1	4.3	2.6	0.9	0.9	2.6	3.5	3.5	4.3
150°	3.5	3.5	3.5	1.7	0.9	0.0	0.0	1.7	2.6	2.6	3.5
152.5°	0.9	0.9	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	2.6
155°	0.0	0.0	0.9	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	0.0	0.0	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°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	252.0	249.4	243.4	237.2	232.0	227.6	224.1	222.4	220.7	219.8	218.1
5°	263.3	257.2	245.0	233.6	223.3	214.5	205.9	200.7	197.2	194.7	193.8
7.5°	282.3	272.8	254.6	237.2	220.7	205.1	194.7	187.7	181.5	178.1	177.2
10°	310.2	298.0	271.1	245.9	223.3	203.2	188.6	178.1	171.1	167.7	167.7
12.5°	350.1	332.0	296.4	261.4	230.2	205.1	186.8	177.2	172.0	169.4	169.4
15°	399.7	375.3	329.3	284.1	244.1	212.9	194.7	184.2	179.0	176.3	176.3
17.5°	454.5	423.1	365.8	308.4	258.1	226.7	203.2	191.1	185.1	182.4	182.4
20°	517.0	481.3	404.9	332.7	276.3	239.8	212.9	197.2	191.1	189.5	188.6
22.5°	588.2	542.1	447.4	358.0	294.6	250.2	220.7	202.5	197.2	195.6	195.6
25°	667.3	611.7	493.4	384.8	309.2	258.1	226.7	208.5	202.5	201.6	200.7
27.5°	750.7	685.4	539.5	411.0	320.5	262.3	230.2	213.7	206.8	206.8	205.9
30°	848.0	762.8	583.9	432.7	327.5	264.1	231.1	216.3	210.3	211.1	212.0
32.5°	945.2	844.4	628.2	451.8	332.7	265.0	231.1	217.2	211.1	213.7	213.7
35°	1048.6	928.8	670.8	467.4	335.3	264.1	231.1	218.9	212.0	214.5	215.5
37.5°	1157.2	1014.7	711.5	479.5	337.1	263.3	231.1	218.9	212.9	215.5	215.5
40°	1268.4	1100.9	750.7	488.3	337.1	262.3	230.2	218.9	214.5	214.5	215.5
42.5°	1388.4	1190.3	786.2	495.2	337.1	260.7	230.2	218.9	212.9	213.7	214.5
45°	1515.3	1282.4	820.2	500.4	336.2	260.7	229.3	218.1	212.0	211.1	212.0
47.5°	1639.4	1377.9	853.2	505.7	335.3	261.4	229.3	217.2	210.3	206.8	207.7
50°	1776.8	1477.1	887.0	509.1	336.2	261.4	230.2	216.3	207.7	203.2	204.2
52.5°	1912.2	1576.0	920.0	513.6	336.2	262.3	230.2	214.5	205.1	199.0	199.9
55°	2055.6	1674.3	952.3	517.9	337.1	263.3	231.1	212.9	202.5	195.6	196.4
57.5°	2180.7	1768.0	980.9	520.4	337.1	265.0	231.1	212.0	199.9	192.0	192.0
60°	2295.3	1854.9	1004.3	521.2	337.1	265.0	231.1	210.3	198.0	188.6	188.6
62.5°	2382.2	1913.1	1015.7	519.6	335.3	265.0	230.2	208.5	196.4	185.9	185.9
65°	2426.6	1938.4	1010.5	513.6	333.6	264.1	229.3	205.9	193.8	184.2	183.3
67.5°	2415.4	1919.1	985.3	501.3	329.3	261.4	226.7	202.5	192.0	182.4	180.6
68°	2404.0	1904.4	977.4	497.8	326.7	260.7	226.0	202.5	191.1	182.4	180.6
70°	2327.6	1841.0	936.7	483.1	322.3	257.2	223.3	199.0	188.6	180.6	179.0
72.5°	2166.0	1703.7	867.9	457.9	311.9	251.0	217.2	194.7	185.1	178.1	175.4
75°	1934.1	1520.4	782.0	428.3	298.9	243.4	209.3	188.6	179.8	173.7	171.1
77.5°	1669.9	1305.0	687.3	392.6	283.2	233.6	200.7	181.5	173.7	168.5	164.2
80°	1381.5	1083.4	591.7	355.4	265.9	221.5	191.1	173.0	165.9	159.9	156.3
82.5°	1107.7	877.6	501.3	319.7	245.0	205.9	179.8	162.5	155.5	150.2	146.0
85°	867.9	699.4	419.7	283.2	226.0	192.0	167.7	151.2	145.0	139.0	134.7
87.5°	672.6	549.9	351.9	249.4	204.2	176.3	155.5	139.9	132.9	126.0	122.4
90°	519.6	432.7	291.1	217.2	185.1	161.5	142.6	127.6	120.0	113.8	110.3
92.5°	400.6	341.4	241.6	190.4	165.1	146.0	129.4	116.4	107.7	99.9	97.2
95°	310.2	270.2	200.7	165.1	146.9	131.2	117.3	104.3	94.7	86.9	84.4
97.5°	241.6	213.7	166.8	142.6	129.4	116.4	104.3	93.0	83.5	73.8	72.1
100°	186.8	169.4	139.9	123.3	113.8	102.5	92.0	82.6	71.2	62.5	61.7
102.5°	146.9	135.6	117.3	106.9	99.1	90.4	81.7	72.1	60.8	52.1	51.3
105°	116.4	109.5	98.2	91.2	86.0	79.1	72.1	62.5	50.3	43.5	43.5
107.5°	93.0	88.7	82.6	78.2	74.6	68.6	62.5	53.0	41.7	35.7	36.6



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CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	75.5	73.0	69.4	67.7	65.1	59.9	53.9	45.2	34.8	29.6	30.5
112.5°	61.7	60.8	59.1	58.2	56.5	52.1	46.1	37.4	27.8	25.2	25.2
115°	51.3	50.3	50.3	49.5	48.7	45.2	39.0	31.4	22.5	20.8	20.8
117.5°	43.5	43.5	42.6	42.6	41.7	38.2	33.0	26.1	18.2	17.3	17.3
120°	36.6	36.6	36.6	36.6	35.7	32.2	27.8	20.8	14.7	14.7	14.7
122.5°	31.4	32.2	31.4	31.4	30.5	27.8	22.5	16.4	12.1	12.1	13.0
125°	26.9	26.9	26.9	26.1	25.2	22.5	18.2	13.0	10.4	10.4	10.4
127.5°	23.4	23.4	23.4	22.5	20.8	19.1	14.7	10.4	8.8	8.8	8.8
130°	20.8	20.0	20.0	19.1	17.3	14.7	11.3	7.8	6.9	6.9	6.9
132.5°	17.3	17.3	16.4	15.6	14.0	11.3	8.8	5.2	5.2	6.1	6.1
135°	14.7	14.7	14.0	12.1	10.4	8.8	6.1	4.3	4.3	4.3	4.3
137.5°	12.1	12.1	11.3	9.5	7.8	5.2	3.5	2.6	2.6	3.5	3.5
140°	9.5	9.5	8.8	6.9	5.2	3.5	1.7	0.9	1.7	1.7	1.7
142.5°	6.9	6.9	6.1	4.3	2.6	1.7	0.0	0.9	0.9	0.9	0.9
145°	5.2	5.2	4.3	3.5	1.7	0.9	0.0	0.0	0.9	0.0	0.0
147.5°	4.3	4.3	3.5	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	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	0.0	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)