

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: P254473

Luminaire Tested: **LXF.LXT-AF24-30-D-U-T2U-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-22)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-30-D-U-T2U-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3296.9 lumens
Efficiency: N/A
Efficacy: 106.4 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: B1 - U3 - G2

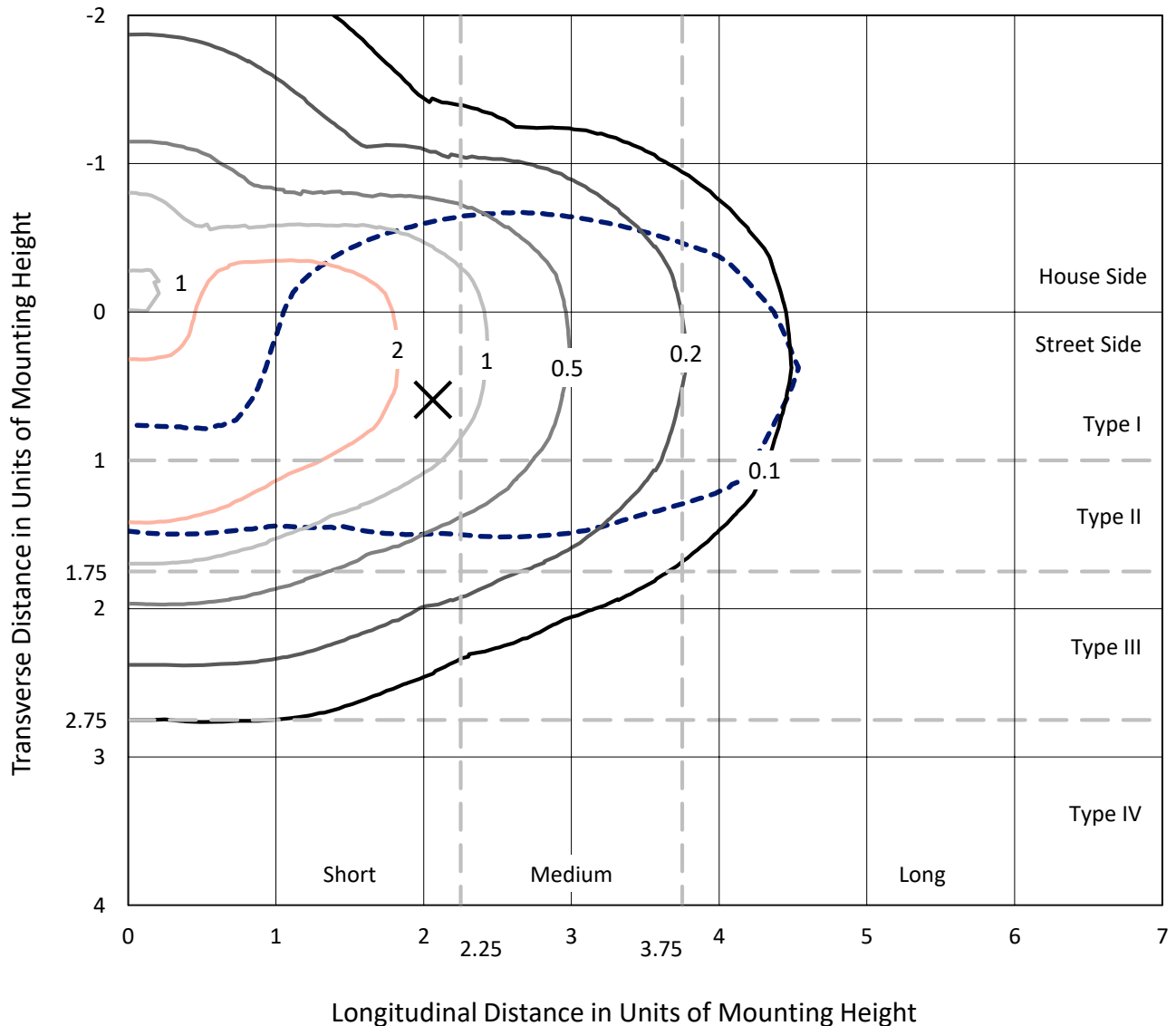
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

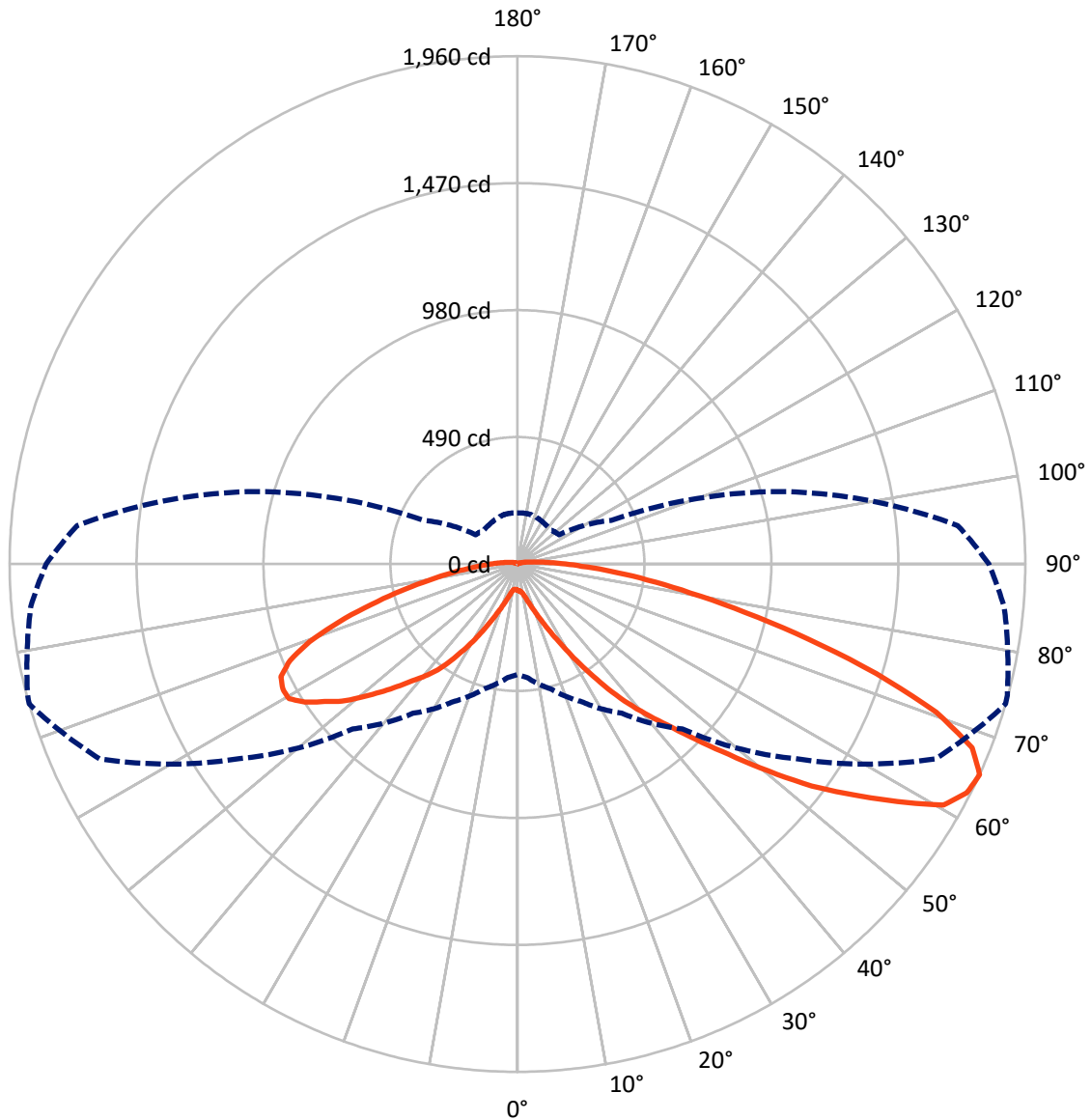
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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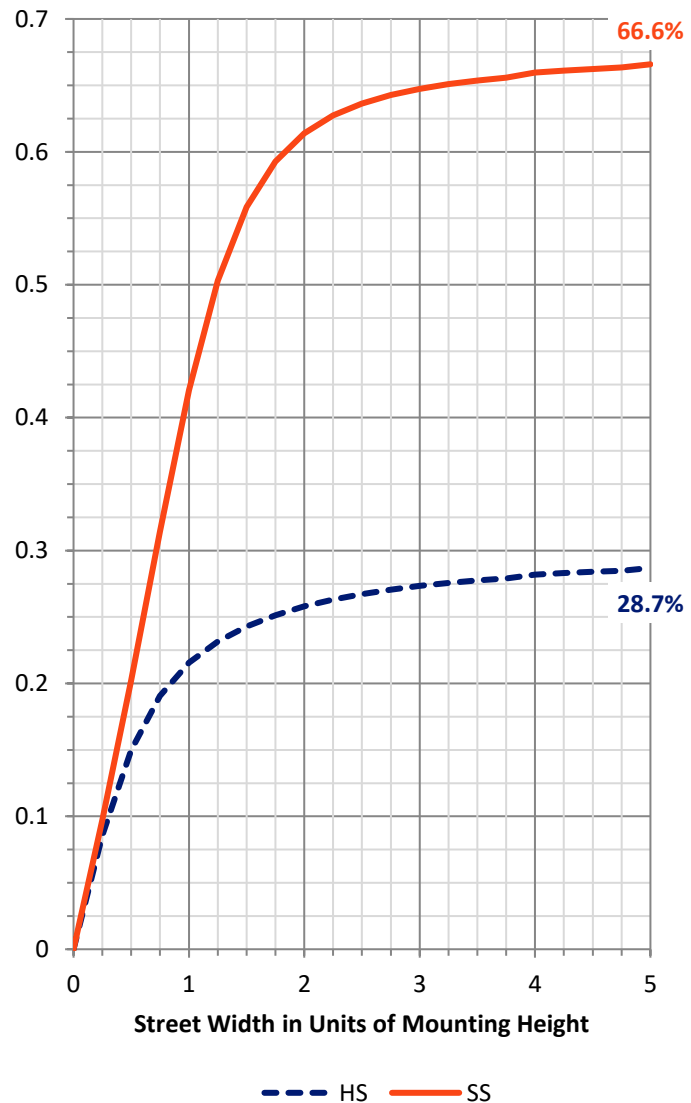
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.9	47.7	1022.6
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	2225.8	48.5	2274.3
	% Fixture	67.5	1.5	69.0
Total	Lumens	3200.7	96.2	3296.9
	% Fixture	97.1	2.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.3
10°-20°	41.3	1.3
20°-30°	122.0	3.7
30°-40°	297.5	9.0
40°-50°	543.1	16.5
50°-60°	772.8	23.4
60°-70°	778.0	23.6
70°-80°	460.6	14.0
80°-90°	175.3	5.3
90°-100°	55.3	1.7
100°-110°	20.9	0.6
110°-120°	10.0	0.3
120°-130°	5.7	0.2
130°-140°	3.2	0.1
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°	3200.7	97.1
0°-180°	3296.9	100.0



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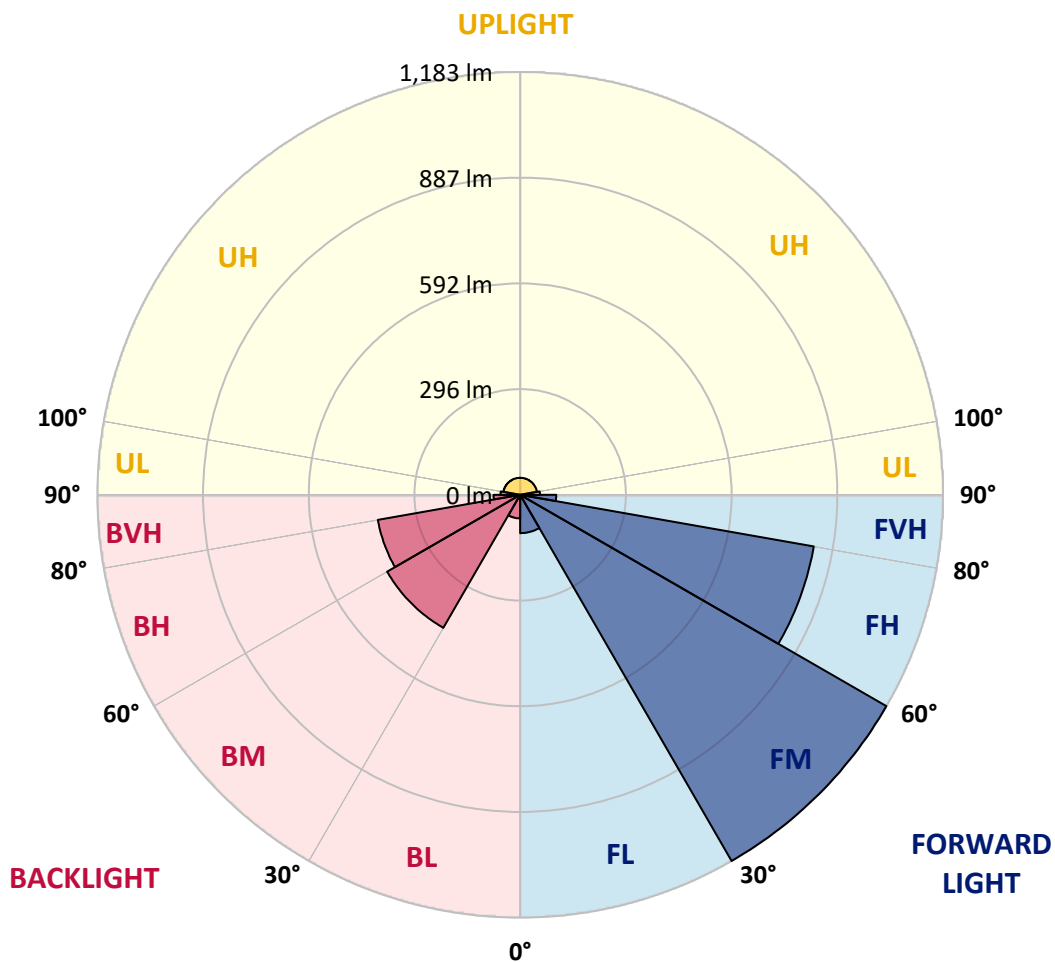
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	107.3	3.3			
FM (30°-60°)	1183.3	35.9			
FH (60°-80°)	834.3	25.3			G1/1800
FVH (80°-90°)	100.8	3.1			G2/225
BL (0°-30°)	66.0	2.0	B0/110		
BM (30°-60°)	430.1	13.0	B1/1000		
BH (60°-80°)	404.3	12.3	B1/500		G1/500
BVH (80°-90°)	74.5	2.3			G1/100
UL (90°-100°)	55.3	1.7		U3/500	
UH (100°-180°)	47.7	1.4		U2/50	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4
2.5°	108.5	108.1	108.5	108.1	108.1	107.3	106.2	104.5	103.0	102.6	101.4
5°	116.1	116.1	116.1	115.3	114.5	113.2	110.9	108.1	105.4	105.0	102.6
7.5°	126.3	126.7	125.9	124.4	122.8	119.6	116.8	112.9	109.4	108.9	105.4
10°	141.8	141.4	140.2	138.2	133.9	130.3	125.5	120.0	116.1	115.3	110.9
12.5°	163.2	162.8	160.8	155.3	149.4	142.6	137.9	132.7	128.7	128.4	124.4
15°	190.9	190.2	186.2	179.0	169.5	160.8	156.8	151.7	147.7	147.3	143.4
17.5°	224.9	224.2	218.6	208.4	195.3	185.4	181.1	175.1	170.7	171.1	165.2
20°	267.8	265.8	258.3	244.4	228.5	216.7	209.9	204.0	200.4	200.0	195.7
22.5°	322.8	320.1	306.6	289.9	270.2	253.9	245.2	238.9	236.5	236.9	232.9
25°	393.3	388.2	371.1	348.2	323.7	298.7	288.4	281.2	282.4	283.3	279.3
27.5°	476.9	474.5	448.4	420.6	384.2	352.1	342.6	335.5	337.9	339.8	336.7
30°	580.7	572.8	542.3	500.6	453.6	414.3	402.0	399.7	406.0	408.8	406.8
32.5°	699.9	693.2	651.6	598.9	530.4	484.1	469.7	476.1	486.4	489.6	487.2
35°	841.4	835.4	779.6	707.5	620.3	570.8	551.8	562.5	575.5	578.3	574.8
37.5°	987.5	984.3	923.3	828.7	722.1	658.0	641.7	657.1	671.1	673.4	661.5
40°	1112.7	1115.4	1054.5	949.5	826.6	750.6	741.1	754.9	758.9	760.2	737.5
42.5°	1214.4	1216.1	1163.0	1056.8	925.0	847.3	842.1	849.3	850.5	850.5	824.3
45°	1241.5	1250.1	1219.7	1138.9	1018.3	941.1	941.1	957.4	965.4	967.7	934.1
47.5°	1253.7	1260.1	1242.6	1184.4	1093.6	1031.9	1052.5	1090.1	1098.0	1102.3	1059.2
50°	1242.6	1251.3	1248.1	1210.6	1145.2	1115.0	1175.3	1241.0	1255.7	1260.1	1207.4
52.5°	1155.4	1172.9	1199.0	1205.8	1176.5	1184.4	1299.7	1410.5	1423.6	1426.0	1347.9
55°	1029.5	1050.1	1094.5	1141.6	1169.7	1230.3	1420.5	1574.5	1571.4	1573.0	1483.4
57.5°	871.0	891.3	951.0	1025.5	1107.1	1240.6	1492.9	1707.6	1729.4	1733.8	1649.0
60°	725.3	733.6	797.8	882.1	990.3	1188.4	1492.9	1818.5	1889.5	1881.1	1766.2
62.5°	557.3	574.4	641.3	733.1	850.9	1060.4	1438.7	1853.8	1946.5	1935.0	1827.3
65°	426.6	440.5	499.5	586.3	703.5	900.0	1309.9	1779.7	1960.4	1957.6	1885.9
67.5°	332.8	334.7	385.4	459.5	556.5	726.1	1099.2	1635.9	1893.4	1893.0	1850.2
70°	251.5	253.5	294.7	363.2	429.7	555.4	877.8	1401.9	1715.6	1710.4	1730.2
72.5°	192.1	194.5	227.0	281.6	330.3	414.7	669.0	1127.3	1448.6	1456.1	1485.4
75°	148.5	150.9	176.3	218.6	253.1	304.2	483.2	848.8	1161.4	1173.6	1235.1
77.5°	114.5	116.8	137.1	169.1	194.5	223.0	336.7	622.7	898.4	914.2	982.7
80°	88.0	90.3	108.1	131.1	151.7	169.1	237.2	446.0	676.2	694.0	773.6
82.5°	68.1	70.5	85.5	104.1	121.6	133.5	172.7	317.7	504.2	518.9	601.7
85°	52.7	54.6	67.3	82.0	98.6	109.4	132.3	224.9	362.0	374.3	439.7
87.5°	40.8	42.4	52.7	64.5	80.0	90.7	105.4	163.6	248.4	257.9	301.5
90°	30.9	32.5	40.8	49.9	63.4	74.9	84.4	117.6	170.7	176.3	198.5
92.5°	22.6	23.7	30.5	37.2	48.3	59.4	67.3	87.2	116.1	118.9	128.4
95°	17.1	17.8	22.6	27.7	36.4	45.9	52.3	64.1	78.1	79.6	82.8
97.5°	13.5	13.9	17.4	21.4	28.1	35.7	40.4	47.2	55.0	55.9	57.4
100°	11.5	11.9	14.6	17.8	22.6	28.5	32.1	36.4	40.8	41.2	42.4
102.5°	9.9	10.3	12.3	14.6	19.0	23.7	26.2	28.9	31.3	30.9	32.1
105°	8.7	8.7	10.7	12.7	16.3	19.8	21.4	23.0	23.7	23.7	24.6
107.5°	7.6	7.9	9.1	11.0	14.2	17.1	17.8	18.2	18.2	18.2	19.0
110°	6.8	6.8	7.9	9.5	12.3	14.6	15.0	14.6	14.2	14.2	15.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	5.9	5.9	6.8	8.7	11.0	13.1	13.1	12.3	11.0	11.0	11.9
115°	5.1	5.5	5.9	7.9	10.3	11.9	11.5	10.3	9.1	9.1	9.9
117.5°	4.7	4.7	5.5	7.2	9.5	10.7	10.3	8.7	7.6	7.6	8.3
120°	4.7	4.7	5.1	6.8	8.7	9.9	9.1	7.6	6.3	6.3	7.6
122.5°	4.7	4.7	5.1	6.3	7.9	8.7	8.3	6.8	5.5	5.5	6.3
125°	5.1	5.1	5.1	6.3	7.6	8.3	7.6	6.3	5.1	5.1	5.5
127.5°	5.5	5.5	5.5	6.3	7.2	7.6	6.8	5.5	4.7	4.7	5.1
130°	5.9	5.9	5.5	5.9	6.8	6.8	6.3	5.1	4.4	4.4	5.1
132.5°	5.9	5.9	5.5	5.5	5.9	5.9	5.5	4.4	4.0	4.0	4.7
135°	5.5	5.5	5.1	5.1	5.1	5.1	4.4	3.6	3.6	3.6	4.0
137.5°	5.1	5.1	4.7	4.7	4.7	4.4	3.6	2.8	2.8	2.8	3.6
140°	4.4	4.4	4.4	4.0	4.0	3.6	2.8	2.4	2.4	2.4	2.8
142.5°	4.0	3.6	3.6	3.2	3.2	2.8	1.9	1.5	1.5	1.5	1.9
145°	3.2	3.2	2.8	2.4	2.4	1.9	1.2	0.8	1.2	1.2	1.5
147.5°	2.4	2.4	1.9	1.9	1.5	1.2	0.4	0.8	0.8	0.8	1.2
150°	1.5	1.5	1.5	1.2	0.8	0.4	0.4	0.4	0.4	0.8	0.8
152.5°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.4	0.4	0.4	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4
2.5°	100.7	100.2	99.4	97.8	97.5	96.7	95.4	95.0	94.3	94.6	94.3
5°	101.4	100.7	97.8	96.3	94.3	93.1	91.9	91.1	90.3	89.9	89.5
7.5°	103.4	102.2	99.0	95.9	93.1	91.1	89.5	88.4	87.6	87.2	86.7
10°	108.5	107.0	102.2	97.8	93.5	90.7	88.7	87.6	86.7	86.7	86.7
12.5°	121.2	119.3	112.1	104.5	97.5	93.1	90.7	92.3	94.3	96.3	97.5
15°	139.4	137.1	128.4	117.6	107.0	100.7	101.0	104.1	106.6	108.9	109.4
17.5°	162.4	159.3	148.1	133.9	119.6	114.5	112.9	116.1	120.0	122.4	123.6
20°	190.9	187.0	172.7	152.9	138.6	131.1	127.6	128.7	133.1	137.1	137.5
22.5°	227.4	220.2	203.6	176.3	158.5	147.0	141.8	141.8	147.7	152.9	153.6
25°	273.7	267.0	240.4	206.0	179.8	162.4	156.5	157.6	165.6	172.3	173.1
27.5°	330.7	321.2	286.4	241.2	202.0	175.8	169.5	172.7	180.7	187.7	188.5
30°	398.8	383.8	339.4	279.3	223.8	189.3	179.4	183.4	190.6	198.0	198.0
32.5°	476.1	458.3	399.3	319.7	244.4	198.9	184.9	190.2	197.2	204.8	204.4
35°	559.7	539.1	461.5	360.5	263.0	205.6	187.7	193.7	202.0	211.1	211.1
37.5°	644.5	623.5	524.1	396.9	276.1	206.3	188.5	197.2	208.4	216.7	215.8
40°	714.2	685.7	574.8	423.1	281.6	204.4	189.8	199.3	207.6	211.1	210.3
42.5°	797.8	761.3	625.0	436.5	278.0	200.8	190.2	196.8	200.8	200.8	199.3
45°	898.8	857.2	687.6	450.8	268.9	196.8	188.1	192.1	192.1	188.9	186.6
47.5°	1021.2	964.9	753.8	463.5	259.8	193.3	186.2	187.7	183.4	178.6	177.1
50°	1163.8	1095.7	826.6	472.6	251.1	190.6	185.4	184.5	181.4	176.7	175.1
52.5°	1295.3	1218.8	902.3	479.7	242.0	189.3	185.4	185.4	182.2	175.4	173.9
55°	1424.8	1343.2	962.9	475.8	232.1	189.8	187.0	187.7	183.4	176.7	175.1
57.5°	1588.0	1500.1	1035.0	468.6	221.8	190.6	188.5	189.3	185.4	179.0	177.5
60°	1701.3	1603.9	1086.6	457.5	212.4	190.6	189.3	190.6	189.3	186.2	184.9
62.5°	1768.7	1660.1	1092.1	432.2	205.2	188.9	188.5	192.5	195.3	194.1	192.9
65°	1819.3	1706.1	1079.8	399.3	196.8	184.5	186.6	192.9	197.6	198.0	197.6
67.5°	1780.1	1663.2	1020.4	360.9	187.0	179.0	183.0	190.2	197.2	199.7	199.3
70°	1659.7	1544.9	918.2	313.7	175.4	170.3	175.8	185.4	192.9	195.7	194.9
72.5°	1412.1	1309.6	777.5	268.5	162.0	158.9	164.8	175.8	182.2	183.8	182.6
75°	1168.9	1078.6	624.3	221.5	147.3	144.5	150.2	158.9	163.2	163.2	161.2
77.5°	934.5	850.5	491.5	183.8	132.3	129.1	134.3	139.4	140.2	137.5	135.4
80°	734.0	654.8	372.4	152.1	116.8	113.6	115.3	118.5	119.6	114.5	111.7
82.5°	569.2	498.3	279.7	125.9	101.8	97.8	99.0	100.7	101.0	94.6	91.5
85°	410.4	356.9	205.2	106.2	87.6	84.0	83.6	84.0	84.4	78.9	76.0
87.5°	281.6	244.4	150.2	89.1	75.7	72.1	71.3	70.9	70.9	65.0	62.2
90°	185.4	164.0	111.7	75.3	64.1	60.6	59.0	58.6	57.8	51.5	49.1
92.5°	120.4	110.1	82.8	61.8	53.1	49.9	48.0	46.7	45.5	39.6	37.2
95°	78.9	74.5	62.6	49.5	42.8	40.0	38.5	36.8	35.3	30.1	28.5
97.5°	55.9	54.2	48.7	40.0	34.1	32.1	30.9	29.7	28.5	24.1	23.3
100°	41.9	41.6	39.2	32.8	27.7	26.5	25.4	24.6	23.7	20.6	19.8
102.5°	32.5	32.8	32.1	26.9	23.3	22.2	21.4	20.6	20.2	17.8	17.4
105°	25.4	26.2	25.8	22.6	19.8	19.0	18.2	17.4	17.1	15.4	15.4
107.5°	19.8	20.6	21.0	18.6	17.1	16.3	15.4	14.6	14.6	13.9	13.9
110°	15.9	16.7	17.4	15.9	14.6	14.2	13.5	12.7	12.3	12.3	12.3



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CATALOG NUMBER: LXF.LXT-AF24-30-D-U-T2U-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.1	13.5	14.2	13.5	12.7	12.3	11.5	10.7	10.7	10.7	11.0
115°	10.7	11.5	11.9	11.5	11.0	11.0	9.9	9.1	8.7	9.5	9.5
117.5°	9.1	9.9	10.3	9.9	9.9	9.9	8.7	7.9	7.6	7.9	8.3
120°	7.9	8.3	8.7	8.7	8.7	8.7	7.9	6.8	6.3	7.2	7.2
122.5°	6.8	7.2	7.6	7.9	7.9	7.6	6.8	5.9	5.5	6.3	6.3
125°	5.9	6.3	6.8	7.2	7.2	6.8	5.9	5.1	4.7	5.5	5.5
127.5°	5.5	5.9	6.3	6.3	6.3	5.9	5.1	4.4	4.4	4.7	5.1
130°	5.5	5.5	5.9	5.9	5.5	5.1	4.4	3.6	3.6	4.4	4.4
132.5°	5.1	5.1	5.1	5.1	4.7	4.4	3.6	3.2	3.2	4.0	4.0
135°	4.4	4.4	4.4	4.4	4.0	3.6	3.2	2.4	2.8	3.2	3.2
137.5°	3.6	3.6	3.6	3.6	3.2	2.8	2.4	1.9	1.9	2.4	2.8
140°	2.8	3.2	3.2	2.8	2.4	2.4	1.5	1.2	1.5	1.9	1.9
142.5°	2.4	2.4	2.4	1.9	1.9	1.5	1.2	0.8	1.2	1.5	1.5
145°	1.9	1.9	1.9	1.9	1.5	0.8	0.4	0.4	0.8	0.8	0.8
147.5°	1.5	1.5	1.5	1.5	1.2	0.8	0.0	0.0	0.4	0.4	0.4
150°	1.2	1.2	1.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	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)