

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: P255019

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-FL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P255019  
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-AF24-90-D-U-T2U-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1180mA 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: 8368.7 lumens  
Efficiency: N/A  
Efficacy: 89.0 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

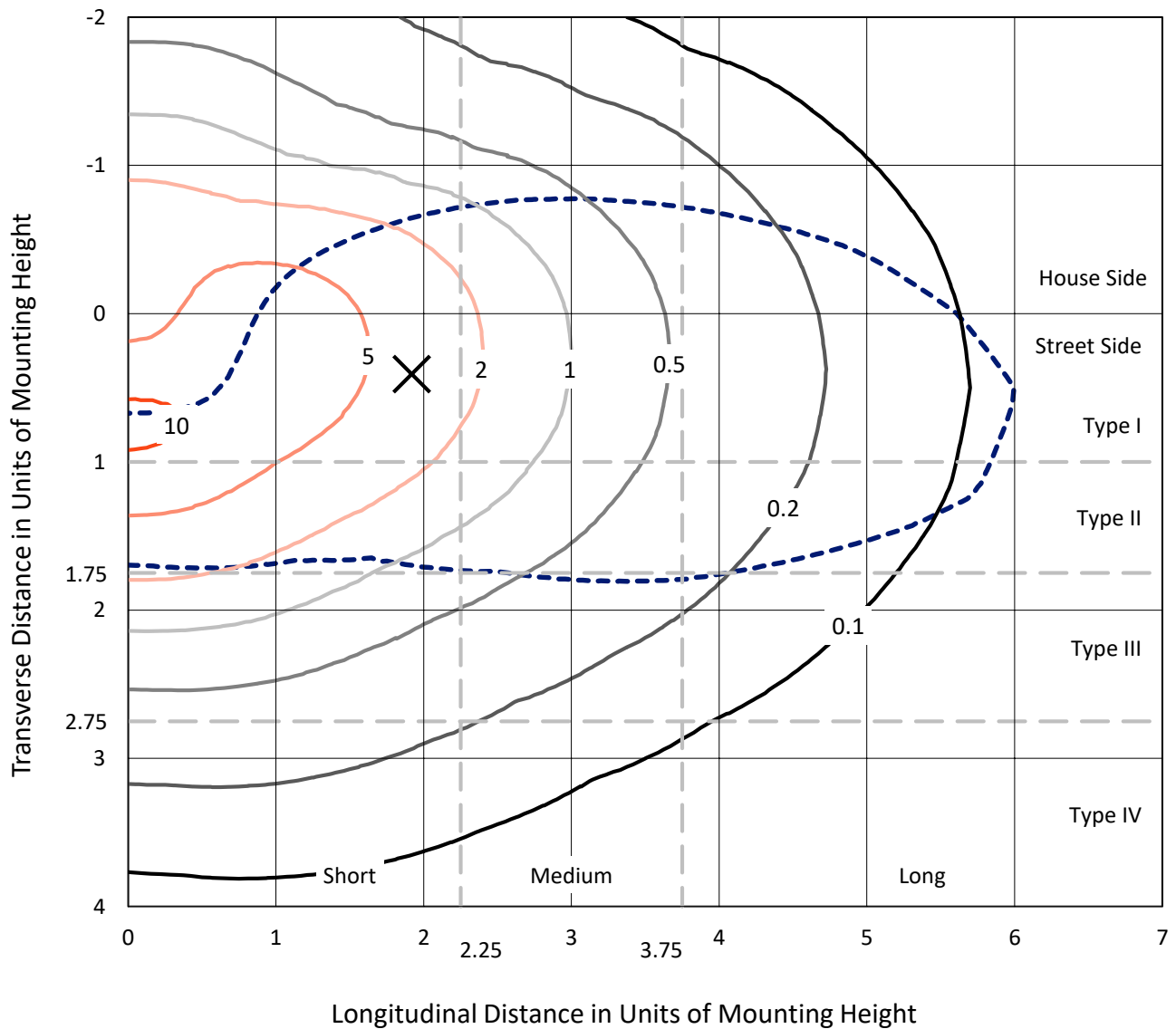
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

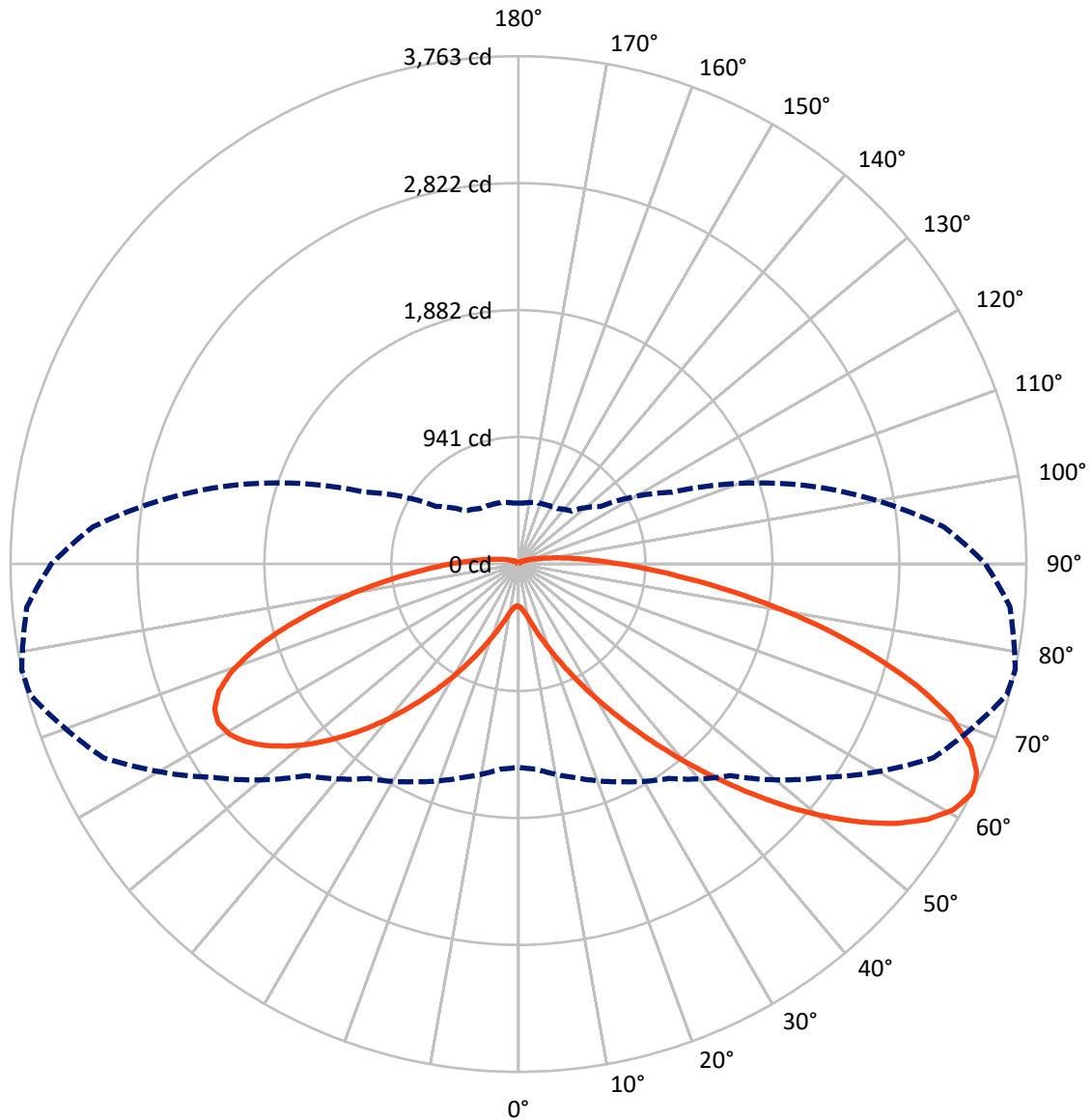
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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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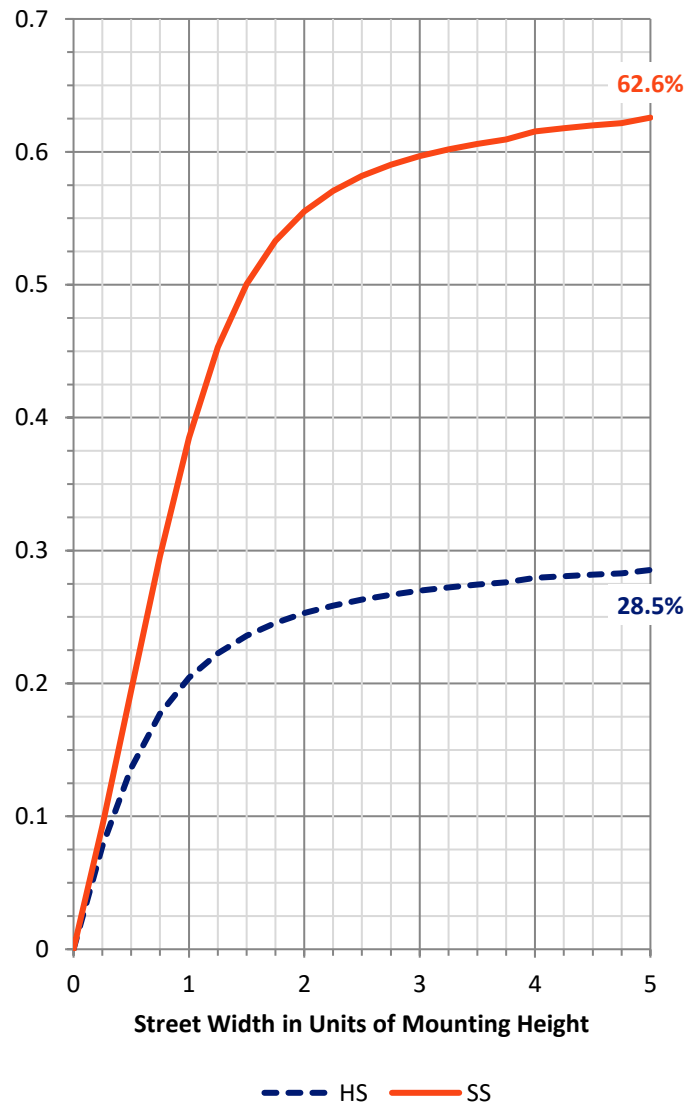
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2486.0	227.2	2713.2
	% Fixture	29.7	2.7	32.4
<b>Street Side</b>	Lumens	5374.1	281.4	5655.6
	% Fixture	64.2	3.4	67.6
<b>Total</b>	Lumens	7860.1	508.7	8368.7
	% Fixture	93.9	6.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.4	0.4
10°-20°	142.6	1.7
20°-30°	372.8	4.5
30°-40°	774.1	9.2
40°-50°	1303.8	15.6
50°-60°	1713.7	20.5
60°-70°	1696.9	20.3
70°-80°	1208.0	14.4
80°-90°	614.8	7.3
90°-100°	267.5	3.2
100°-110°	122.4	1.5
110°-120°	62.2	0.7
120°-130°	33.1	0.4
130°-140°	16.5	0.2
140°-150°	5.9	0.1
150°-160°	1.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7860.1	93.9
0°-180°	8368.7	100.0



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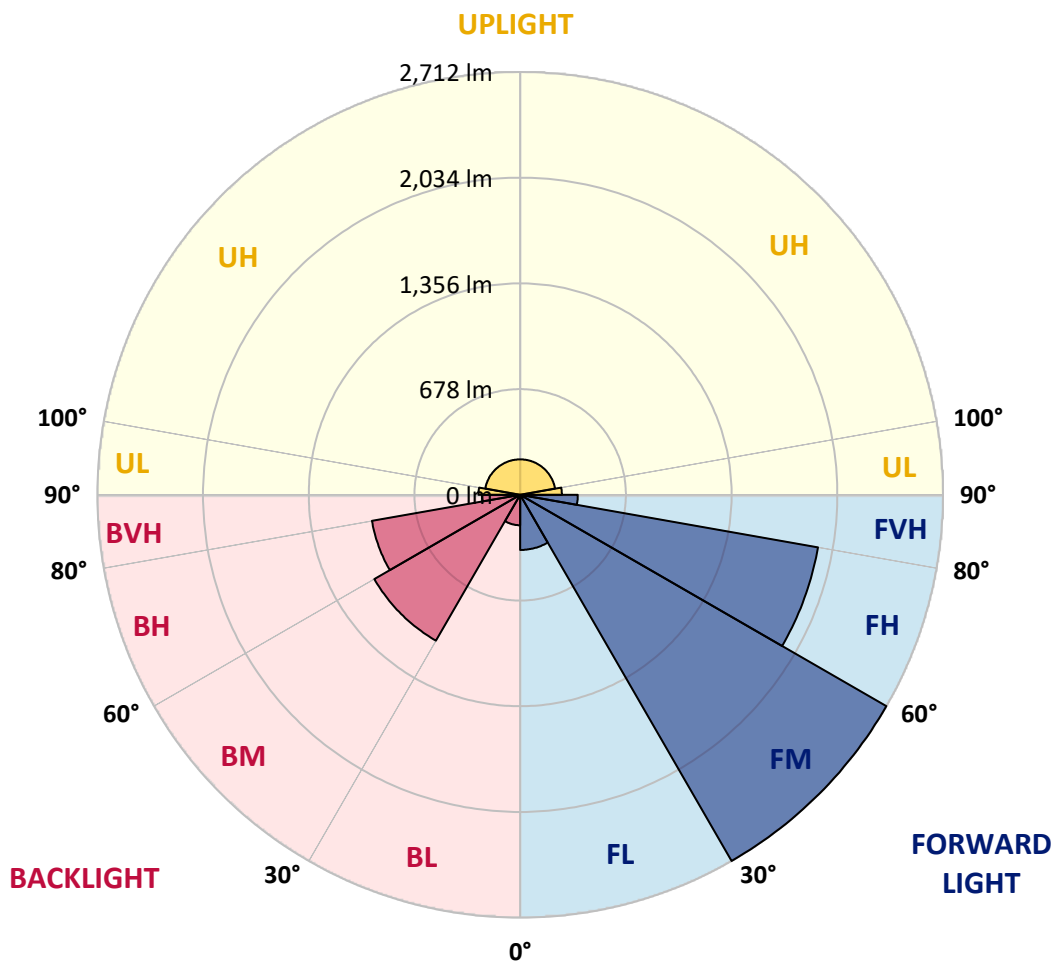
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-FL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.7	4.2			
FM	(30°-60°)	2711.7	32.4			
FH	(60°-80°)	1939.5	23.2			G2/5000
FVH	(80°-90°)	369.2	4.4			G3/500
BL	(0°-30°)	195.0	2.3	B1/500		
BM	(30°-60°)	1079.9	12.9	B2/2500		
BH	(60°-80°)	965.4	11.5	B2/1000		G2/1000
BVH	(80°-90°)	245.6	2.9			G3/500
UL	(90°-100°)	267.5	3.2		U3/500	
UH	(100°-180°)	227.2	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°	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2
2.5°	347.5	348.5	348.5	346.6	344.5	340.4	336.4	331.3	324.3	323.3	318.2
5°	388.9	389.9	388.9	384.9	380.8	373.8	365.7	356.6	344.5	343.5	334.4
7.5°	439.5	440.5	439.5	432.4	425.3	415.2	404.1	391.0	373.8	370.8	358.6
10°	502.1	504.1	501.1	495.0	482.9	467.8	453.6	434.4	416.2	409.2	394.0
12.5°	582.0	582.0	575.8	566.8	551.6	532.4	514.2	491.0	470.8	460.7	444.6
15°	670.9	671.9	663.8	652.6	636.5	607.2	587.0	562.7	537.5	528.4	505.1
17.5°	772.8	774.9	764.8	748.6	726.4	697.1	671.9	643.5	614.3	599.1	574.9
20°	892.1	892.1	881.0	859.8	831.5	799.1	766.8	734.5	702.2	683.9	658.7
22.5°	1027.5	1027.5	1014.4	986.0	945.6	910.2	874.9	838.5	803.2	784.0	751.7
25°	1184.1	1190.1	1164.8	1129.5	1084.0	1034.5	999.2	956.8	918.3	897.1	861.7
27.5°	1360.8	1363.9	1332.6	1280.0	1221.4	1169.9	1130.5	1092.1	1049.6	1027.5	985.0
30°	1550.8	1544.8	1516.4	1453.8	1377.0	1314.4	1275.0	1239.6	1191.1	1173.9	1127.5
32.5°	1754.9	1750.8	1714.5	1628.5	1545.8	1470.0	1427.5	1405.3	1356.8	1337.6	1288.1
35°	1970.1	1962.9	1919.6	1829.6	1720.5	1637.6	1599.3	1588.1	1543.7	1524.5	1465.0
37.5°	2195.4	2179.2	2124.7	2010.5	1897.4	1809.4	1792.2	1776.0	1746.8	1726.5	1655.9
40°	2375.2	2368.1	2313.6	2194.3	2072.1	1998.3	1987.3	1998.3	1970.1	1946.8	1864.9
42.5°	2520.7	2515.6	2472.2	2354.9	2232.7	2165.1	2177.1	2213.6	2204.5	2181.2	2090.3
45°	2621.7	2616.6	2585.3	2484.3	2372.1	2322.6	2377.2	2443.9	2450.0	2430.7	2323.6
47.5°	2657.0	2654.0	2636.9	2563.1	2477.2	2465.1	2573.2	2678.3	2703.6	2687.4	2566.2
50°	2611.6	2613.6	2619.7	2586.3	2533.8	2568.1	2727.8	2901.5	2956.1	2937.9	2808.6
52.5°	2494.4	2501.4	2530.8	2541.9	2533.8	2621.7	2857.1	3103.6	3196.5	3176.4	3043.0
55°	2314.5	2324.7	2376.2	2433.8	2475.2	2617.6	2937.9	3274.4	3407.7	3393.5	3255.1
57.5°	2078.1	2098.4	2168.0	2270.1	2354.0	2555.0	2961.1	3391.5	3580.4	3570.4	3436.0
60°	1816.5	1833.6	1929.7	2063.0	2184.2	2432.8	2910.6	3442.0	3697.7	3700.7	3573.4
62.5°	1556.8	1576.1	1689.2	1827.6	1982.2	2256.9	2790.4	3411.7	3746.1	3761.3	3651.2
63°	1506.3	1525.5	1638.7	1780.1	1939.7	2217.6	2758.1	3394.6	3746.1	3763.3	3656.2
65°	1310.3	1328.5	1440.6	1588.1	1756.9	2045.8	2601.5	3293.5	3705.7	3732.0	3648.1
67.5°	1082.0	1101.2	1214.3	1359.8	1522.5	1803.4	2354.9	3085.4	3567.3	3614.8	3561.3
70°	889.0	909.3	1012.3	1149.7	1301.3	1556.8	2073.1	2805.5	3345.0	3396.6	3376.4
72.5°	732.4	749.6	850.7	965.9	1101.2	1328.5	1784.1	2468.2	3026.8	3089.4	3101.6
75°	598.1	616.2	705.2	808.2	927.4	1118.4	1504.4	2111.5	2632.8	2719.7	2754.1
77.5°	487.9	505.1	583.9	673.8	774.9	931.5	1246.7	1757.9	2228.7	2333.8	2378.3
80°	398.0	414.2	478.8	560.7	646.6	772.8	1021.4	1416.4	1828.6	1923.6	1970.1
82.5°	323.3	337.5	394.0	465.7	538.5	640.6	833.5	1133.5	1460.9	1540.7	1565.9
85°	260.6	272.8	323.3	386.0	447.5	526.4	673.8	896.1	1142.6	1205.2	1236.5
87.5°	208.1	218.2	263.7	318.2	370.8	442.5	545.5	714.2	884.0	930.5	950.7
90°	168.7	176.8	214.2	260.6	308.1	360.7	442.5	555.7	680.0	713.3	727.4
92.5°	137.4	143.4	176.8	215.2	257.6	305.1	360.7	439.5	523.3	545.5	554.6
95°	115.2	117.2	146.5	179.8	214.2	254.6	295.0	349.5	404.1	419.3	423.3
97.5°	93.9	97.0	122.2	152.5	181.9	212.2	241.4	279.9	314.3	323.3	324.3
100°	80.8	81.8	103.0	130.3	155.6	179.8	201.0	224.3	244.5	247.6	249.5
102.5°	68.7	69.7	87.9	113.1	134.4	154.6	170.7	183.8	191.9	192.9	192.9
105°	59.6	60.7	75.8	98.0	117.2	132.4	145.5	150.6	152.5	151.5	151.5
107.5°	53.5	53.5	66.7	85.8	103.0	116.2	124.3	125.3	122.2	120.2	120.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	47.5	48.5	58.6	76.8	92.0	102.0	108.1	105.1	99.0	97.0	97.0
112.5°	43.5	44.5	51.6	67.7	80.8	90.9	93.9	88.9	80.8	78.8	79.8
115°	40.4	40.4	46.4	59.6	72.7	80.8	81.8	75.8	66.7	65.7	66.7
117.5°	37.3	37.3	41.4	53.5	64.7	71.7	71.7	64.7	56.6	54.5	55.5
120°	35.4	35.4	38.4	47.5	57.6	63.6	62.6	55.5	47.5	47.5	48.5
122.5°	33.3	33.3	35.4	42.5	51.6	56.6	55.5	47.5	40.4	40.4	41.4
125°	31.3	31.3	32.3	38.4	45.4	49.5	48.5	40.4	35.4	35.4	36.4
127.5°	29.3	29.3	30.3	34.4	40.4	43.5	41.4	34.4	31.3	31.3	32.3
130°	28.3	28.3	28.3	30.3	35.4	38.4	35.4	29.3	27.3	27.3	28.3
132.5°	26.3	26.3	26.3	27.3	30.3	32.3	30.3	25.3	24.2	24.2	25.3
135°	25.3	25.3	24.2	24.2	26.3	27.3	24.2	21.2	21.2	21.2	22.2
137.5°	23.2	23.2	22.2	21.2	22.2	22.2	20.3	17.2	18.2	18.2	19.2
140°	21.2	21.2	20.3	18.2	17.2	17.2	15.1	14.1	15.1	15.1	16.2
142.5°	18.2	18.2	17.2	15.1	13.1	12.2	11.2	11.2	12.2	12.2	13.1
145°	15.1	15.1	14.1	12.2	10.1	9.1	8.1	8.1	9.1	9.1	10.1
147.5°	12.2	12.2	11.2	9.1	7.1	5.0	5.0	6.0	7.1	7.1	7.1
150°	10.1	10.1	9.1	7.1	4.1	3.1	2.0	3.1	4.1	4.1	4.1
152.5°	7.1	7.1	6.0	4.1	3.1	1.0	1.0	2.0	3.1	3.1	3.1
155°	4.1	4.1	3.1	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
157.5°	2.0	2.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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°	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2
2.5°	316.2	314.3	309.1	304.1	300.0	297.1	295.0	292.0	290.9	289.9	289.9
5°	329.4	324.3	315.2	306.1	298.0	290.9	284.9	279.9	276.8	274.8	275.8
7.5°	350.6	342.5	329.4	315.2	302.1	292.0	282.8	276.8	271.8	268.7	268.7
10°	383.9	372.8	352.6	332.4	316.2	301.1	289.9	280.9	274.8	271.8	271.8
12.5°	431.4	417.3	388.9	360.7	338.5	318.2	304.1	295.0	293.0	289.9	289.9
15°	487.9	470.8	436.5	400.1	369.8	342.5	330.4	322.3	317.2	313.2	313.2
17.5°	554.6	532.4	489.0	444.6	407.1	378.9	358.6	347.5	341.5	338.5	338.5
20°	631.5	604.2	550.7	495.0	448.6	418.3	391.0	373.8	367.8	364.7	363.7
22.5°	720.4	687.0	622.4	552.6	498.1	457.7	425.3	400.1	393.0	389.9	387.9
25°	826.4	789.0	703.2	618.3	550.7	495.0	455.6	427.4	417.3	414.2	413.2
27.5°	945.6	900.2	795.1	691.0	600.1	528.4	481.9	452.7	439.5	435.5	436.5
30°	1079.0	1025.4	896.1	764.8	648.7	558.7	503.1	471.8	457.7	453.6	453.6
32.5°	1227.5	1156.8	1006.3	842.6	694.1	583.9	521.3	489.0	471.8	468.8	468.8
35°	1391.2	1317.5	1125.5	921.4	734.5	604.2	534.5	502.1	484.0	479.9	479.9
37.5°	1579.1	1482.1	1251.8	997.2	768.8	619.3	543.5	510.1	492.0	485.9	485.9
40°	1770.0	1657.9	1383.1	1068.9	798.1	628.4	548.6	514.2	497.1	489.0	487.9
42.5°	1979.1	1838.8	1517.4	1134.6	818.4	633.4	549.6	517.3	499.1	489.0	486.9
45°	2196.4	2044.8	1641.7	1191.1	833.5	633.4	548.6	516.3	499.1	485.9	484.0
47.5°	2415.6	2243.8	1771.0	1238.6	840.6	630.4	546.6	515.3	498.1	481.9	479.9
50°	2643.9	2442.9	1893.3	1276.0	839.5	624.3	541.6	512.2	494.0	476.9	474.9
52.5°	2858.1	2625.7	2005.4	1302.2	833.5	615.3	535.4	509.2	491.0	471.8	469.7
55°	3066.2	2809.6	2102.4	1316.4	820.3	604.2	529.4	505.1	487.9	466.8	465.7
57.5°	3234.0	2964.2	2178.2	1315.4	801.2	590.0	522.3	500.1	484.0	463.7	461.7
60°	3371.3	3088.5	2226.7	1300.3	778.0	575.8	514.2	494.0	479.9	459.7	456.6
62.5°	3452.2	3158.2	2238.8	1267.9	749.6	559.7	503.1	485.0	472.8	454.6	451.6
63°	3461.3	3164.2	2235.8	1259.9	743.6	555.7	501.1	484.0	471.8	453.6	450.6
65°	3458.2	3162.2	2206.5	1218.4	717.3	539.5	491.0	474.9	464.7	447.5	444.6
67.5°	3379.4	3085.4	2123.6	1149.7	678.9	518.2	474.9	461.7	451.6	436.5	433.4
70°	3208.7	2921.8	1984.2	1063.9	636.5	494.0	454.6	444.6	434.4	420.3	416.2
72.5°	2956.1	2680.3	1797.3	971.9	592.0	465.7	432.4	422.3	414.2	402.1	395.1
75°	2626.7	2374.2	1581.1	868.9	543.5	436.5	405.1	397.0	387.0	375.8	369.8
77.5°	2243.8	2024.6	1352.8	762.8	494.0	403.1	375.8	366.7	357.6	345.6	337.5
80°	1856.9	1673.0	1126.5	659.7	444.6	367.8	343.5	335.4	324.3	311.2	303.1
82.5°	1489.2	1345.7	921.4	564.8	396.0	332.4	310.2	300.0	288.0	274.8	269.8
85°	1162.9	1057.7	742.6	478.8	348.5	297.1	276.8	266.7	251.5	236.4	230.4
87.5°	897.1	820.3	596.1	403.1	305.1	262.7	242.4	230.4	216.3	201.0	196.0
90°	688.0	635.5	476.9	339.4	265.7	228.3	212.2	201.0	184.8	169.7	165.7
92.5°	527.3	492.0	382.9	285.9	227.3	200.0	185.9	173.8	157.6	142.5	139.4
95°	405.1	381.9	309.1	239.5	197.0	174.8	162.6	149.6	133.4	119.2	116.2
97.5°	314.3	298.0	249.5	202.0	170.7	152.5	142.5	129.3	113.1	100.0	98.0
100°	243.5	233.3	203.1	169.7	148.5	133.4	123.3	112.1	97.0	82.9	82.9
102.5°	190.0	183.8	166.7	145.5	129.3	118.3	109.1	97.0	81.8	70.7	69.7
105°	150.6	147.5	137.4	124.3	113.1	104.0	96.0	83.9	69.7	59.6	59.6
107.5°	120.2	119.2	114.2	106.1	99.0	92.0	84.9	72.7	59.6	51.6	51.6



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	98.0	98.0	96.0	90.9	86.8	80.8	73.8	63.6	50.5	44.5	44.5
112.5°	80.8	81.8	80.8	78.8	76.8	71.7	65.7	54.5	43.5	39.4	39.4
115°	67.7	68.7	68.7	68.7	67.7	63.6	57.6	47.5	37.3	34.4	34.4
117.5°	57.6	58.6	59.6	59.6	58.6	55.5	50.5	41.4	32.3	30.3	31.3
120°	49.5	50.5	51.6	52.6	51.6	49.5	43.5	35.4	28.3	27.3	27.3
122.5°	43.5	44.5	44.5	45.4	45.4	43.5	38.4	30.3	24.2	24.2	24.2
125°	37.3	38.4	39.4	39.4	40.4	37.3	32.3	25.3	21.2	21.2	22.2
127.5°	33.3	33.3	33.3	34.4	34.4	32.3	28.3	21.2	18.2	19.2	19.2
130°	29.3	29.3	30.3	30.3	30.3	28.3	23.2	18.2	16.2	17.2	17.2
132.5°	25.3	26.3	26.3	25.3	25.3	24.2	19.2	15.1	14.1	15.1	15.1
135°	22.2	23.2	23.2	21.2	21.2	19.2	16.2	12.2	13.1	13.1	14.1
137.5°	19.2	20.3	19.2	18.2	17.2	16.2	13.1	10.1	11.2	12.2	12.2
140°	16.2	16.2	16.2	15.1	14.1	12.2	10.1	8.1	10.1	10.1	10.1
142.5°	13.1	13.1	13.1	12.2	10.1	9.1	7.1	7.1	8.1	8.1	8.1
145°	10.1	10.1	10.1	9.1	7.1	6.0	5.0	5.0	6.0	7.1	7.1
147.5°	7.1	7.1	7.1	6.0	4.1	3.1	3.1	4.1	5.0	5.0	5.0
150°	5.0	5.0	5.0	4.1	3.1	2.0	2.0	3.1	3.1	4.1	4.1
152.5°	3.1	4.1	4.1	3.1	2.0	1.0	1.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	3.1	2.0	2.0	1.0	0.0	0.0	1.0	1.0	1.0
157.5°	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)