

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: P254902

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T4W-FL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)  
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-T4W-FL-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7832.8 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G4

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

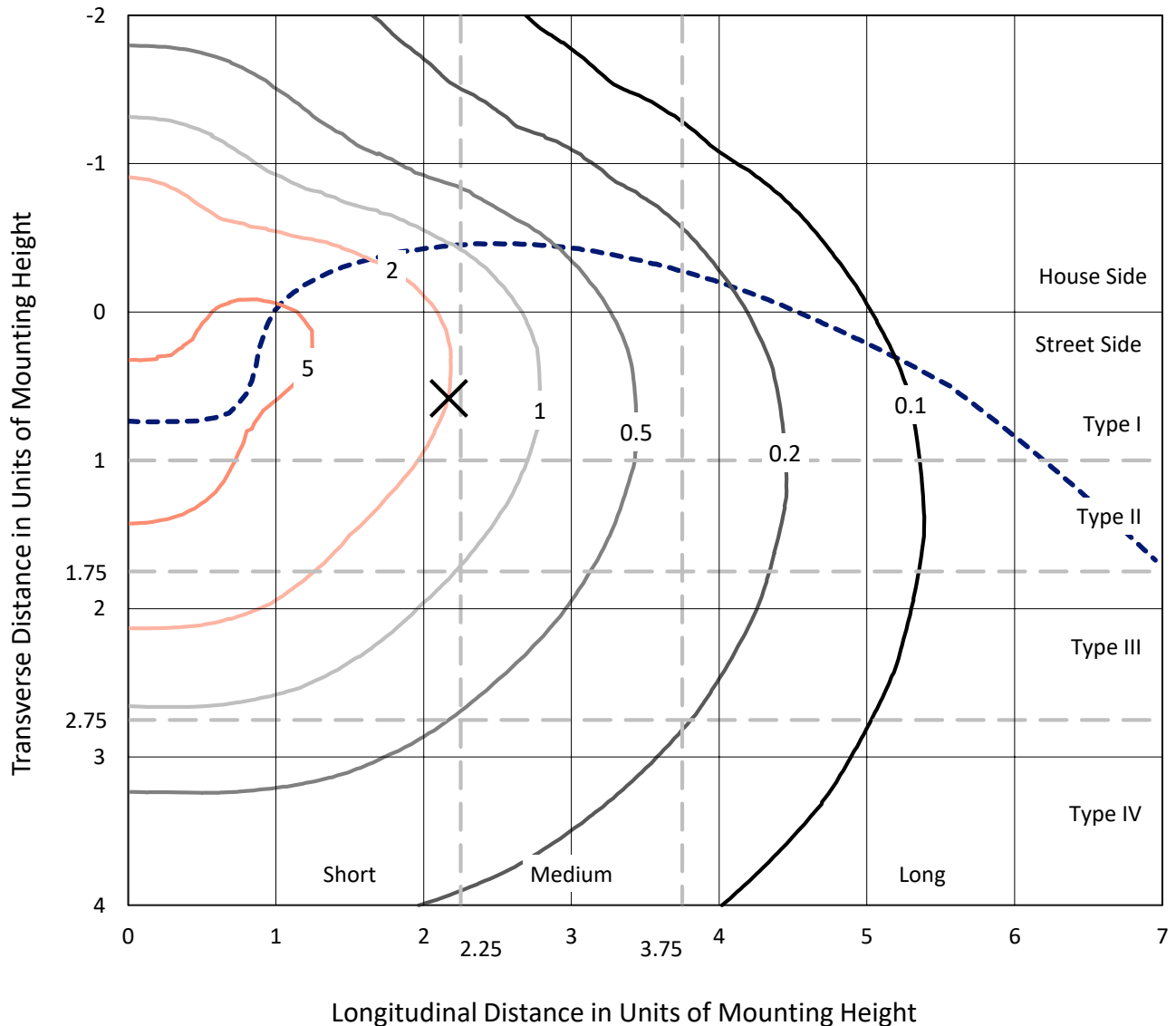


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

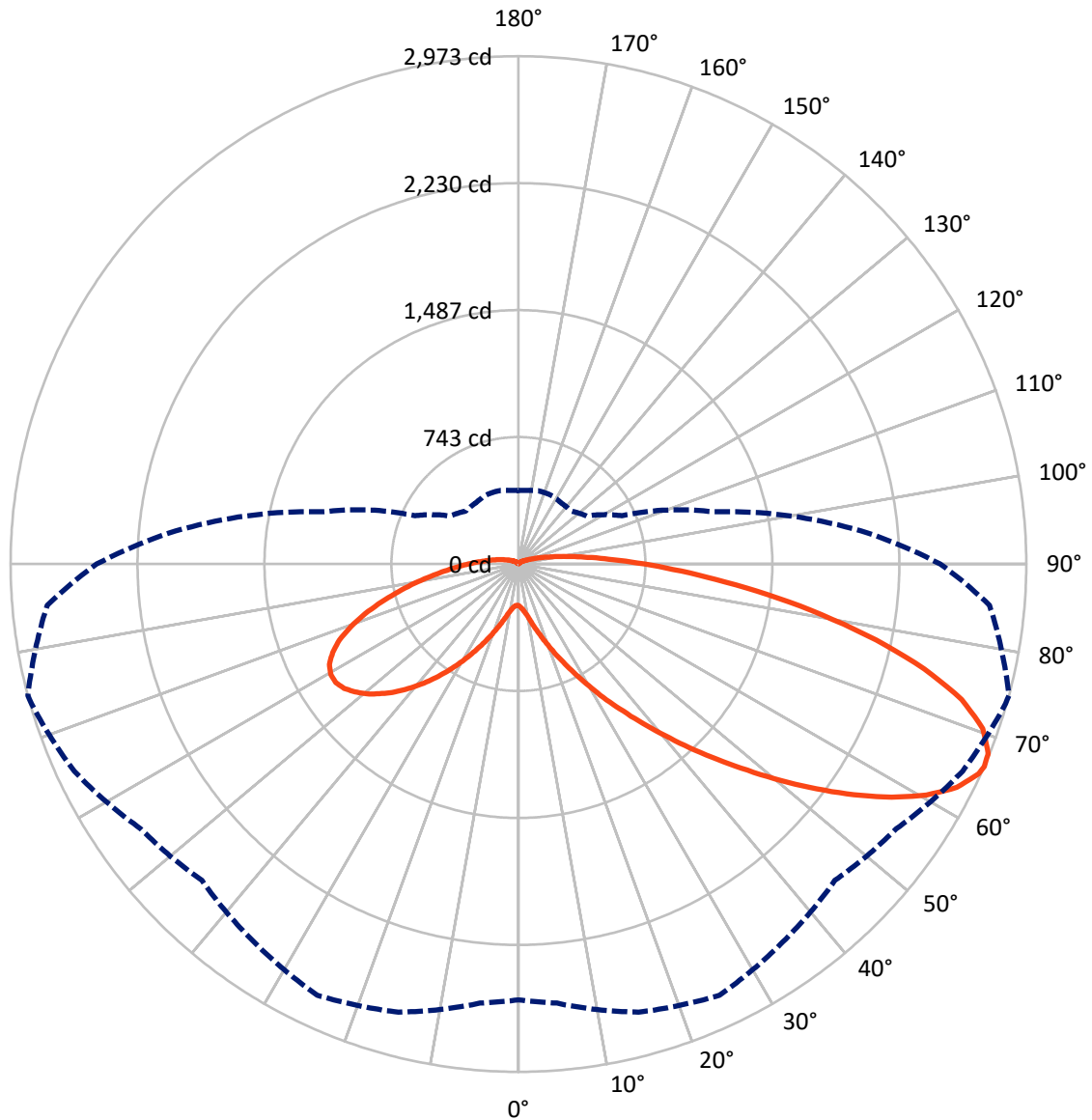


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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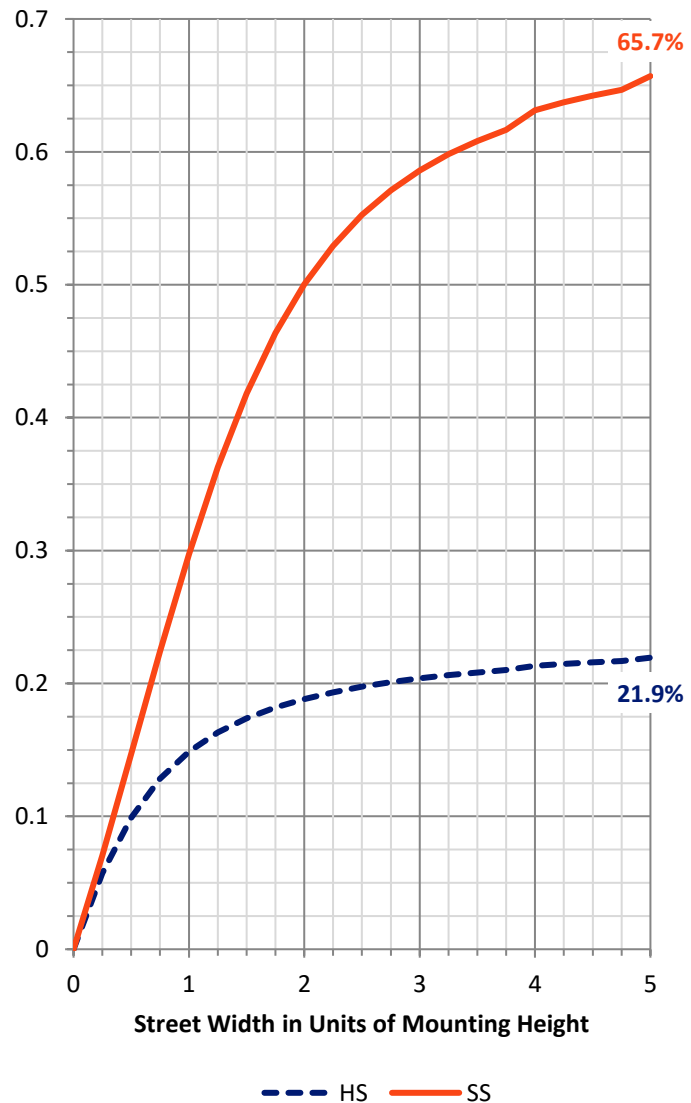
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1815.1	195.6	2010.7
	% Fixture	23.2	2.5	25.7
<b>Street Side</b>	Lumens	5442.7	379.4	5822.1
	% Fixture	69.5	4.8	74.3
<b>Total</b>	Lumens	7257.7	575.0	7832.8
	% Fixture	92.7	7.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.9	0.3
10°-20°	108.5	1.4
20°-30°	274.5	3.5
30°-40°	549.1	7.0
40°-50°	933.6	11.9
50°-60°	1389.2	17.7
60°-70°	1705.8	21.8
70°-80°	1467.0	18.7
80°-90°	804.2	10.3
90°-100°	335.6	4.3
100°-110°	137.1	1.8
110°-120°	60.4	0.8
120°-130°	27.6	0.4
130°-140°	11.4	0.1
140°-150°	2.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7257.7	92.7
0°-180°	7832.8	100.0



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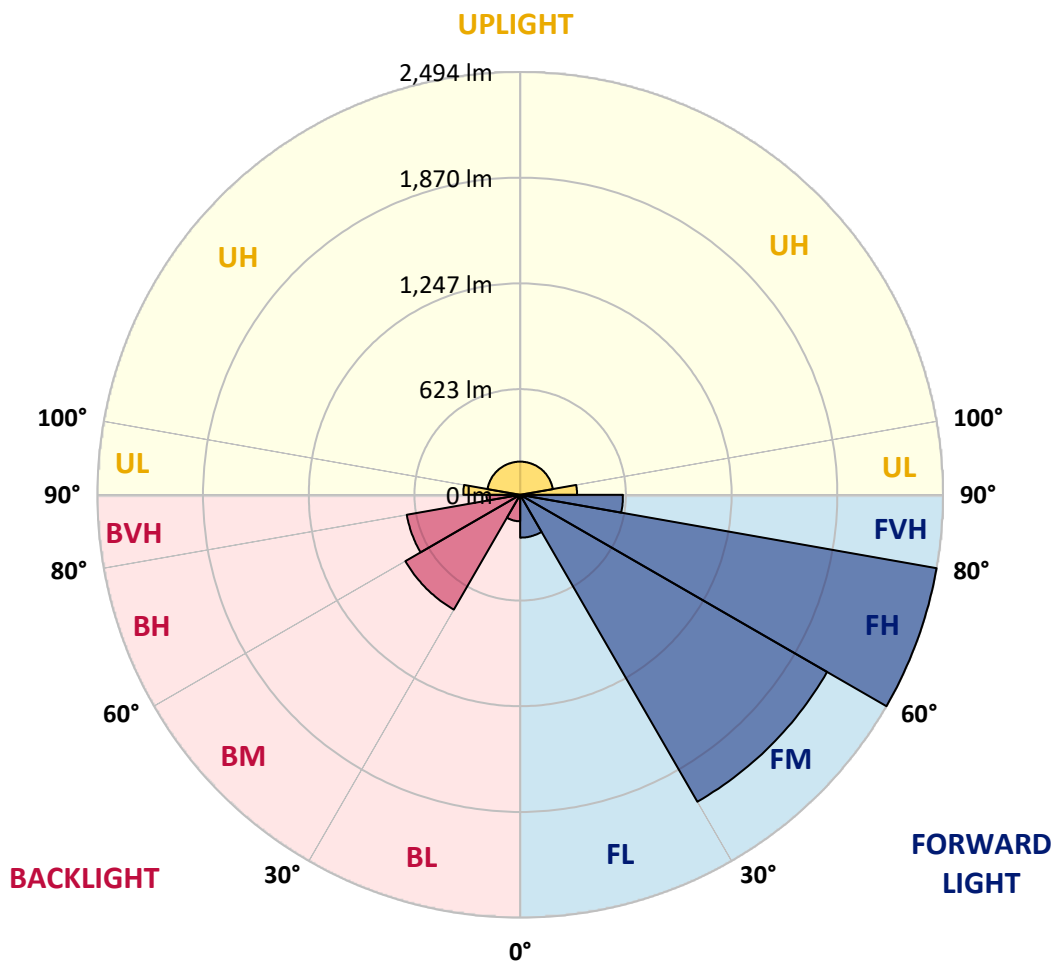
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.7	3.2			
FM (30°-60°)	2090.1	26.7			
FH (60°-80°)	2493.9	31.8			G2/5000
FVH (80°-90°)	605.9	7.7			G4/750
BL (0°-30°)	156.1	2.0	B1/500		
BM (30°-60°)	781.8	10.0	B1/1000		
BH (60°-80°)	678.8	8.7	B2/1000		G2/1000
BVH (80°-90°)	198.3	2.5			G2/225
UL (90°-100°)	335.6	4.3		U3/500	
UH (100°-180°)	195.6	2.5		U3/500	

**BUG Rating: B2-U3-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5
2.5°	269.4	269.4	268.3	268.3	265.5	262.7	260.8	256.0	253.2	253.2	249.3
5°	297.9	297.9	297.0	295.1	291.2	286.6	280.8	274.1	268.3	267.4	260.8
7.5°	333.3	333.3	331.4	327.6	321.9	315.2	307.6	297.9	289.4	287.5	277.9
10°	377.3	377.3	374.4	368.6	361.0	352.5	342.0	328.6	317.1	316.2	302.7
12.5°	432.6	429.8	427.9	418.4	407.9	396.4	383.9	367.7	356.3	356.3	338.1
15°	495.7	495.7	488.1	475.6	462.2	447.0	433.6	417.4	404.0	403.0	382.1
17.5°	565.4	564.5	555.9	540.7	522.5	507.2	490.0	471.8	456.6	456.6	431.7
20°	645.6	643.7	632.3	612.3	590.2	573.1	554.0	532.9	516.7	516.7	489.1
22.5°	737.4	733.5	719.3	691.5	669.5	644.7	622.8	601.7	584.5	586.4	554.9
25°	840.5	835.8	817.6	782.3	750.7	721.1	699.1	677.2	664.8	660.0	634.2
27.5°	957.0	947.5	927.4	882.5	837.7	801.3	778.5	762.2	750.7	746.9	717.3
30°	1085.1	1075.4	1047.8	991.4	932.2	886.3	864.4	852.0	846.2	841.6	811.9
32.5°	1231.2	1220.7	1182.4	1111.8	1035.3	978.1	957.0	951.3	951.3	947.5	917.9
35°	1389.7	1376.3	1330.4	1241.6	1145.1	1076.4	1056.3	1059.3	1060.2	1057.3	1032.5
37.5°	1558.8	1544.5	1490.0	1384.0	1263.6	1181.5	1161.4	1174.7	1193.8	1183.4	1157.6
40°	1732.7	1719.2	1661.0	1532.1	1387.8	1291.3	1271.2	1298.0	1328.6	1320.0	1291.3
42.5°	1905.5	1899.8	1826.2	1688.7	1520.6	1406.9	1392.6	1433.7	1475.6	1470.0	1438.4
45°	2093.6	2076.5	2004.8	1851.1	1662.9	1540.7	1524.3	1579.8	1637.1	1631.4	1599.9
47.5°	2262.6	2246.5	2178.6	2015.3	1806.2	1673.5	1662.9	1737.3	1810.0	1803.4	1771.7
50°	2405.1	2403.0	2345.8	2176.8	1957.1	1811.8	1811.0	1904.5	1993.3	1991.5	1951.4
52.5°	2541.6	2538.7	2486.2	2333.3	2107.9	1951.4	1959.0	2081.2	2187.3	2187.3	2133.8
55°	2646.7	2645.7	2615.1	2482.4	2257.0	2106.1	2128.1	2262.6	2384.0	2384.0	2330.5
57.5°	2720.2	2719.3	2715.4	2614.1	2400.2	2253.2	2287.6	2441.3	2573.2	2576.0	2505.4
60°	2737.4	2746.0	2784.2	2720.2	2528.3	2386.9	2433.6	2605.7	2741.2	2746.0	2649.5
62.5°	2706.8	2720.2	2797.6	2784.2	2625.6	2507.2	2565.5	2742.2	2873.0	2880.6	2747.9
65°	2605.7	2633.2	2751.7	2795.6	2686.8	2595.1	2672.5	2841.5	2950.4	2960.9	2779.4
66°	2551.1	2580.7	2716.4	2785.1	2700.2	2619.9	2701.1	2869.2	2966.6	2973.3	2768.9
67.5°	2448.0	2477.6	2638.1	2744.0	2700.2	2643.7	2725.0	2888.3	2963.7	2966.6	2731.7
70°	2226.3	2272.3	2451.8	2616.1	2644.7	2631.4	2724.1	2859.7	2894.1	2884.5	2589.3
72.5°	1982.8	2008.6	2205.4	2429.0	2525.3	2551.1	2657.1	2751.7	2728.8	2714.4	2375.4
75°	1662.9	1700.1	1915.0	2170.0	2317.2	2396.4	2510.1	2543.5	2486.2	2455.6	2093.6
77.5°	1388.8	1404.1	1604.6	1866.3	2060.2	2168.1	2275.1	2285.6	2167.1	2141.4	1766.0
80°	1104.2	1119.4	1303.8	1555.0	1765.1	1907.3	2001.0	1973.3	1824.3	1799.5	1460.4
82.5°	862.5	883.5	1024.9	1264.5	1468.0	1618.0	1689.5	1644.7	1503.4	1468.0	1163.4
85°	661.9	672.4	804.2	1010.5	1190.1	1326.6	1385.9	1336.2	1184.4	1156.6	914.1
87.5°	504.3	514.8	626.6	789.0	947.5	1063.9	1109.8	1046.8	923.6	905.4	709.6
90°	384.9	392.6	481.4	620.8	743.1	839.5	871.2	821.4	711.6	695.3	546.3
92.5°	295.1	301.8	370.6	481.4	581.7	663.9	677.2	630.4	545.4	531.0	420.2
95°	226.3	234.1	289.4	376.3	454.6	516.7	526.3	486.2	418.4	406.9	323.7
97.5°	177.6	180.5	227.4	297.9	361.9	405.1	408.8	378.2	320.0	312.4	249.3
100°	142.4	144.2	180.5	235.9	288.5	320.0	321.9	290.4	245.5	239.8	190.9
102.5°	115.6	117.5	145.2	190.1	229.2	255.0	254.0	229.2	190.1	182.5	149.0
105°	95.5	96.4	118.4	154.7	186.3	203.4	202.4	178.6	146.2	141.4	116.6
107.5°	80.2	81.2	97.5	126.0	152.9	167.1	164.3	140.4	113.6	110.8	92.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	67.8	68.8	81.2	105.1	128.9	138.5	134.7	111.8	89.8	86.0	74.6
112.5°	59.2	59.2	68.8	87.9	107.9	116.6	110.8	90.6	70.7	68.8	61.0
115°	51.6	52.6	59.2	74.6	91.7	97.5	91.7	72.5	57.4	55.4	50.6
117.5°	45.9	45.9	51.6	63.1	77.3	81.2	75.5	59.2	46.8	45.9	42.9
120°	41.1	41.1	44.9	53.5	64.9	68.8	63.1	48.7	38.2	37.2	36.3
122.5°	37.2	37.2	39.2	45.9	55.4	57.4	51.6	40.1	32.4	31.4	31.4
125°	33.5	33.5	34.4	39.2	46.8	48.7	42.9	32.4	27.8	26.8	26.8
127.5°	30.6	30.6	30.6	34.4	38.2	40.1	35.3	26.8	23.0	23.0	23.9
130°	27.8	27.8	27.8	28.6	31.4	32.4	28.6	22.0	20.1	20.1	20.1
132.5°	24.8	24.8	23.9	24.8	25.7	25.7	22.0	18.1	17.2	17.2	18.1
135°	22.0	22.0	21.0	21.0	21.0	20.1	17.2	14.3	14.3	14.3	15.3
137.5°	19.1	19.1	18.1	17.2	16.3	14.3	12.4	11.5	11.5	11.5	12.4
140°	16.3	16.3	15.3	13.3	11.5	10.5	8.6	8.6	9.5	9.5	9.5
142.5°	12.4	12.4	11.5	10.5	8.6	6.7	5.7	5.7	6.7	6.7	7.6
145°	9.5	9.5	8.6	6.7	4.8	3.9	2.8	3.9	4.8	4.8	5.7
147.5°	6.7	6.7	5.7	4.8	2.8	1.0	1.8	2.8	3.9	3.9	4.8
150°	3.9	3.9	2.8	1.8	0.0	0.0	1.0	1.8	2.8	2.8	2.8
152.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.8	1.8	1.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5
2.5°	247.4	245.5	241.7	238.7	234.9	233.0	231.2	229.2	228.3	226.3	226.3
5°	256.0	253.2	246.4	240.7	234.1	229.2	224.4	221.6	219.7	218.7	218.7
7.5°	272.2	267.4	257.0	248.3	238.7	233.0	227.4	221.6	218.7	217.8	217.8
10°	295.1	289.4	275.2	262.7	250.2	241.7	235.9	229.2	226.3	224.4	224.4
12.5°	328.6	319.0	301.8	283.6	267.4	257.0	249.3	244.5	244.5	246.4	245.5
15°	370.6	360.1	335.2	312.4	290.4	276.0	271.3	270.3	270.3	271.3	271.3
17.5°	416.4	402.1	373.4	343.8	318.1	303.7	297.9	296.1	296.1	297.0	299.0
20°	471.8	453.7	417.4	379.2	351.5	334.4	325.7	322.9	324.7	328.6	328.6
22.5°	535.8	515.8	467.1	418.4	385.9	364.0	353.4	350.5	354.3	359.1	360.1
25°	609.3	582.7	521.5	461.3	419.3	391.5	381.1	377.3	383.0	388.8	391.5
27.5°	690.5	656.2	580.7	504.3	448.9	415.5	404.0	403.0	410.7	418.4	421.2
30°	780.3	738.3	643.7	549.2	479.4	436.5	424.0	426.9	435.5	445.1	447.0
32.5°	879.6	830.1	709.6	593.2	503.3	452.8	438.4	445.1	455.6	468.0	470.0
35°	987.6	927.4	779.3	634.2	524.3	465.1	450.8	459.4	470.9	484.2	486.2
37.5°	1105.0	1031.5	849.2	670.6	540.7	472.8	457.5	468.0	481.4	493.9	495.7
40°	1227.3	1139.5	918.9	703.0	552.1	477.6	460.4	471.8	485.2	494.7	496.7
42.5°	1365.8	1256.1	986.6	728.8	558.8	478.5	460.4	470.9	484.2	490.9	491.8
45°	1512.9	1379.2	1053.5	749.7	561.6	477.6	457.5	468.9	479.4	482.4	483.3
47.5°	1665.7	1505.3	1113.7	762.2	561.6	473.7	453.7	462.2	470.9	470.0	470.9
50°	1835.8	1637.1	1170.0	769.8	557.8	468.9	449.8	456.6	462.2	457.5	458.5
52.5°	1996.1	1768.0	1215.8	772.7	551.1	463.3	446.0	451.8	454.6	448.0	448.0
55°	2155.6	1891.2	1253.1	767.0	542.5	458.5	443.1	448.9	448.9	440.4	440.4
57.5°	2303.7	1996.1	1274.2	755.5	532.0	454.6	441.3	447.0	447.0	435.5	435.5
60°	2418.4	2071.7	1275.0	737.4	519.6	449.8	440.4	447.0	446.0	434.7	433.6
62.5°	2488.2	2105.1	1253.1	711.6	507.2	445.1	439.3	446.0	446.0	433.6	432.6
65°	2488.2	2083.1	1205.3	681.0	492.9	439.3	437.5	446.0	444.1	432.6	430.8
66°	2469.0	2059.2	1179.6	667.7	488.1	437.5	436.5	446.0	444.1	432.6	429.8
67.5°	2416.5	2001.9	1137.6	645.6	476.6	432.6	434.7	443.1	442.2	429.8	427.9
70°	2263.7	1853.9	1046.8	606.5	459.4	424.0	428.9	436.5	435.5	424.0	420.2
72.5°	2039.3	1659.1	943.7	564.5	440.4	412.6	418.4	426.0	424.0	414.5	410.7
75°	1774.6	1438.4	831.9	519.6	417.4	397.3	404.0	410.7	408.8	400.2	394.4
77.5°	1489.1	1211.1	721.1	472.8	393.6	378.2	384.9	391.5	387.8	380.1	376.3
80°	1209.2	991.4	616.0	426.0	365.8	356.3	363.0	364.8	361.9	355.3	350.5
82.5°	964.6	797.5	516.7	380.1	336.2	330.5	335.2	335.2	332.3	325.7	320.9
85°	757.3	636.1	434.7	334.4	306.6	302.7	305.6	302.7	299.0	292.3	288.5
87.5°	597.0	510.0	364.0	294.1	274.1	273.1	274.1	267.4	263.7	257.9	254.0
90°	466.1	400.2	303.7	256.0	244.5	243.5	241.7	234.9	226.3	220.6	217.8
92.5°	364.0	321.9	251.2	218.7	212.9	212.1	209.1	200.6	194.8	187.2	184.3
95°	288.5	257.0	208.2	189.1	186.3	185.3	181.5	172.0	164.3	156.7	154.7
97.5°	226.3	203.4	173.8	162.4	161.3	160.5	155.7	145.2	136.6	128.9	128.0
100°	177.6	163.4	145.2	139.5	139.5	138.5	133.8	123.3	112.7	105.1	104.2
102.5°	141.4	131.7	121.3	119.4	119.4	118.4	113.6	105.1	92.7	84.0	84.0
105°	112.7	107.0	101.3	102.1	103.1	102.1	97.5	87.0	74.6	67.8	67.8
107.5°	90.6	87.0	85.0	87.0	87.9	87.9	83.1	71.7	60.2	54.4	54.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	73.5	71.7	71.7	73.5	75.5	75.5	69.7	60.2	48.7	43.9	43.9
112.5°	60.2	59.2	60.2	64.0	64.9	64.0	59.2	49.7	39.2	36.3	36.3
115°	50.6	50.6	51.6	54.4	56.4	54.4	49.7	40.1	31.4	29.6	29.6
117.5°	42.9	42.9	43.9	46.8	47.7	45.9	41.1	32.4	25.7	24.8	24.8
120°	36.3	36.3	37.2	39.2	40.1	38.2	33.5	26.8	21.0	20.1	21.0
122.5°	31.4	31.4	32.4	33.5	34.4	32.4	27.8	21.0	17.2	17.2	17.2
125°	27.8	27.8	27.8	28.6	28.6	26.8	23.0	17.2	13.3	14.3	14.3
127.5°	23.9	23.9	23.9	23.9	23.9	22.0	18.1	13.3	11.5	12.4	12.4
130°	21.0	21.0	20.1	20.1	19.1	18.1	14.3	10.5	9.5	10.5	10.5
132.5°	18.1	18.1	17.2	16.3	15.3	14.3	11.5	7.6	7.6	8.6	8.6
135°	15.3	15.3	14.3	13.3	12.4	10.5	7.6	5.7	5.7	6.7	6.7
137.5°	12.4	12.4	11.5	10.5	8.6	7.6	5.7	3.9	4.8	5.7	5.7
140°	9.5	9.5	8.6	7.6	5.7	3.9	2.8	2.8	2.8	3.9	3.9
142.5°	7.6	7.6	6.7	4.8	2.8	1.8	1.0	1.0	1.8	2.8	2.8
145°	5.7	5.7	4.8	3.9	1.8	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	4.8	3.9	3.9	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.9	2.8	2.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	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)