

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: P266177

Luminaire Tested: **LXF.LXT-AF24-80-D-U-SL3-FL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266177  
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-AF24-80-D-U-SL3-FL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 6292.2 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: B1 - U3 - G3

Input Watts (W): 83  
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

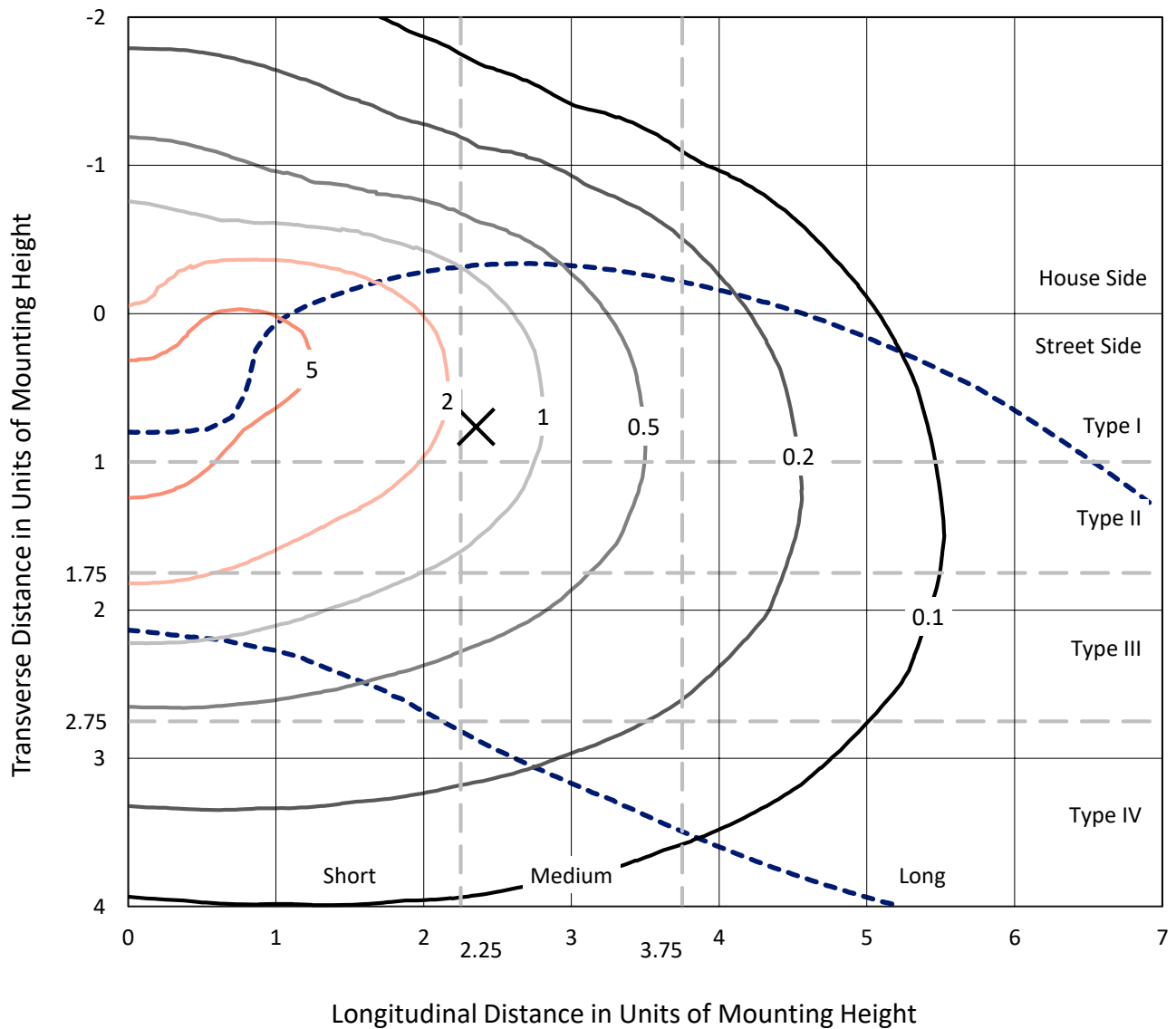


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

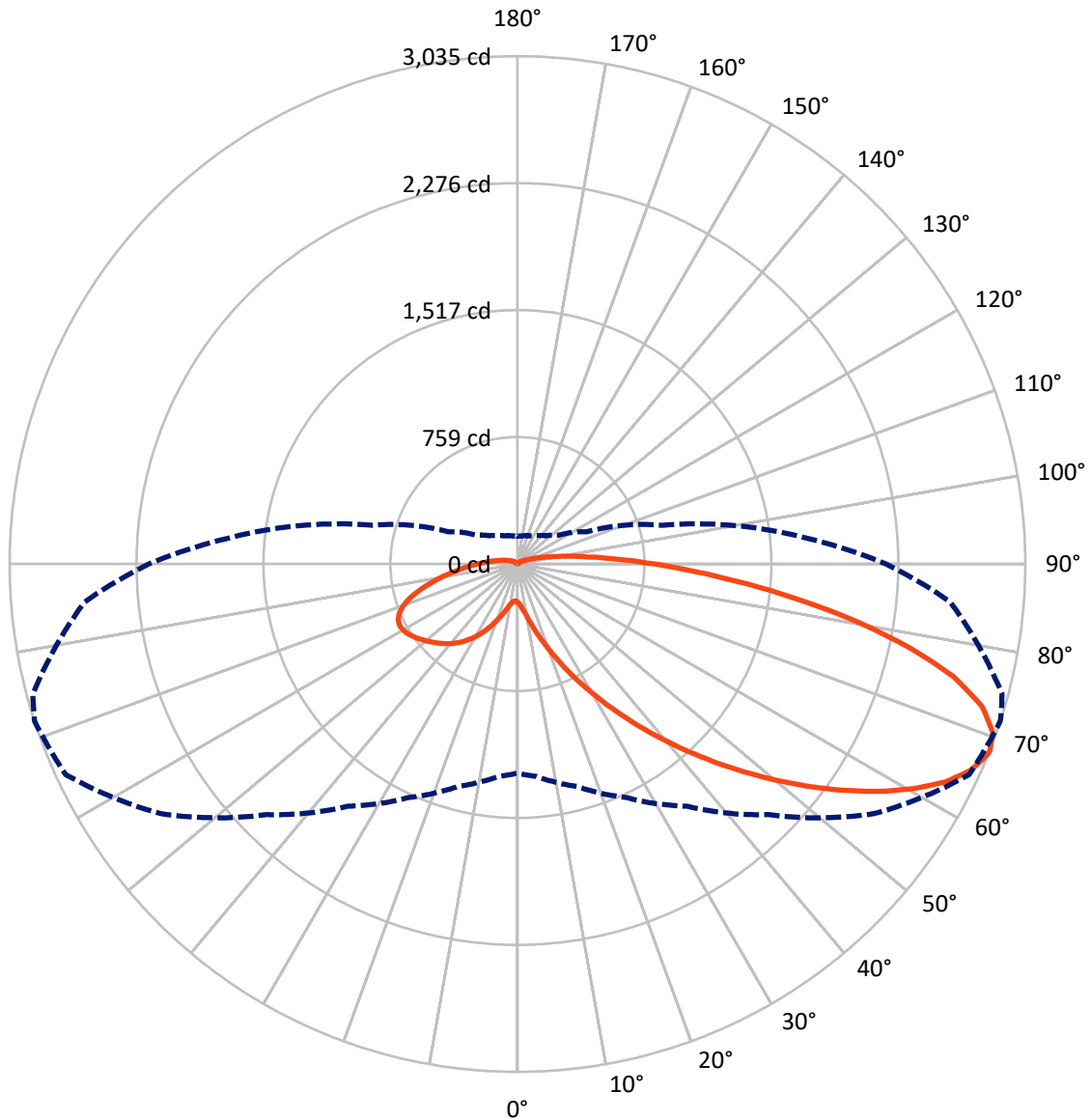


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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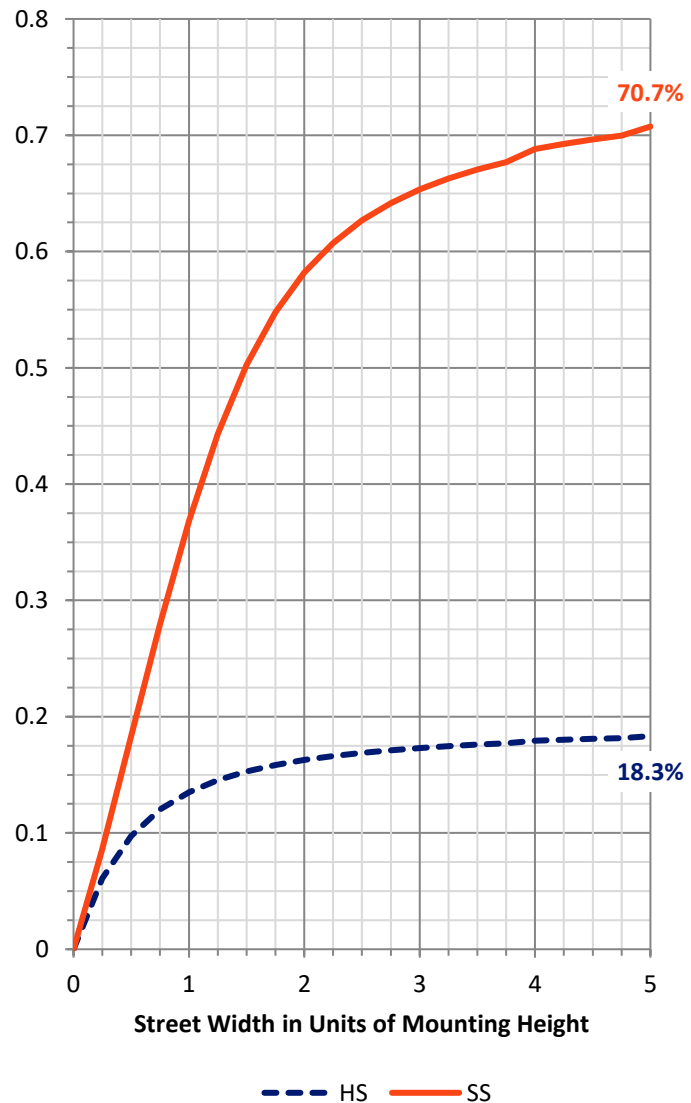
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.3	144.0	1353.3
	% Fixture	19.2	2.3	21.5
<b>Street Side</b>	Lumens	4642.0	296.9	4939.0
	% Fixture	73.8	4.7	78.5
<b>Total</b>	Lumens	5851.3	441.0	6292.2
	% Fixture	93.0	7.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	0.4
10°-20°	99.9	1.6
20°-30°	247.1	3.9
30°-40°	483.4	7.7
40°-50°	805.5	12.8
50°-60°	1147.4	18.2
60°-70°	1329.4	21.1
70°-80°	1110.2	17.6
80°-90°	604.4	9.6
90°-100°	253.7	4.0
100°-110°	105.7	1.7
110°-120°	47.6	0.8
120°-130°	22.2	0.4
130°-140°	9.3	0.1
140°-150°	2.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5851.3	93.0
0°-180°	6292.2	100.0



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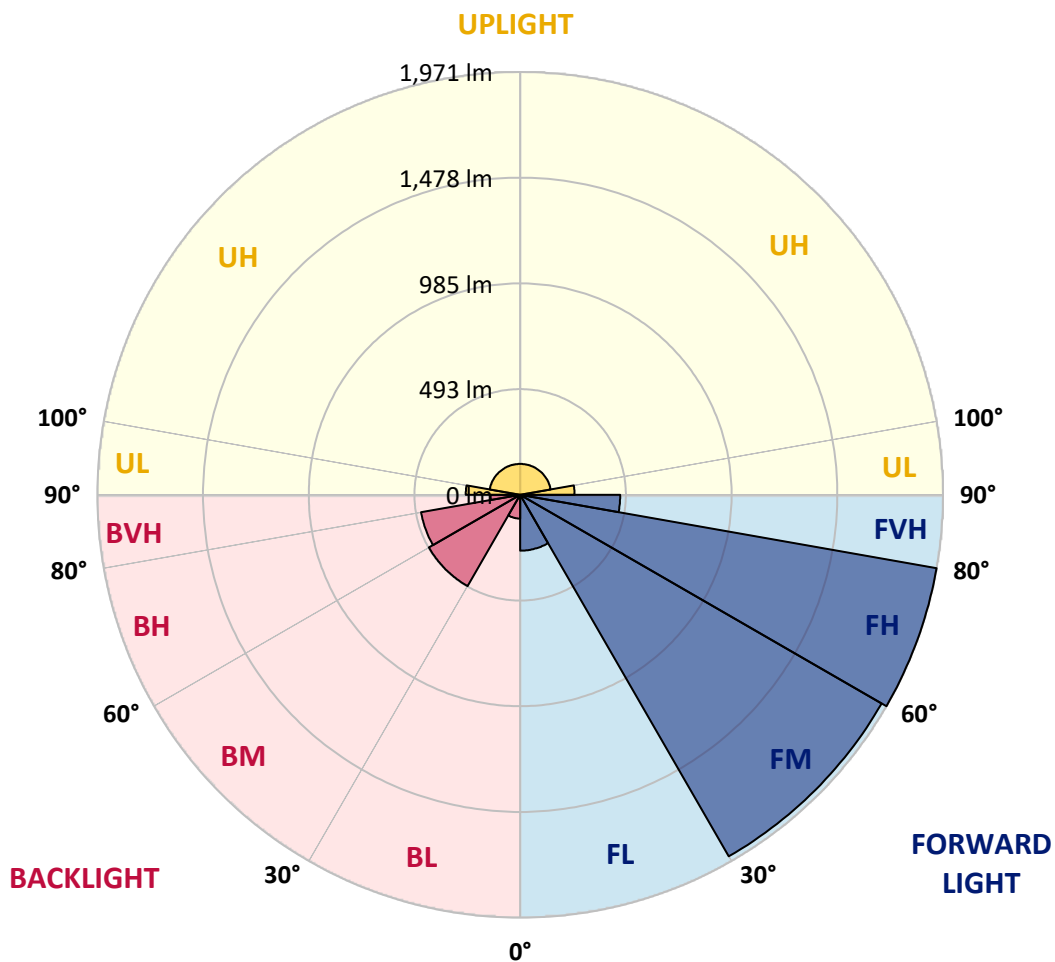
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-FL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.3	4.1			
FM	(30°-60°)	1945.2	30.9			
FH	(60°-80°)	1970.5	31.3			G2/5000
FVH	(80°-90°)	465.9	7.4			G3/500
BL	(0°-30°)	110.8	1.8	B1/500		
BM	(30°-60°)	491.1	7.8	B1/1000		
BH	(60°-80°)	469.0	7.5	B1/500		G1/500
BVH	(80°-90°)	138.4	2.2			G2/225
UL	(90°-100°)	253.7	4.0		U3/500	
UH	(100°-180°)	144.0	2.3		U3/500	

**BUG Rating: B1-U3-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3
2.5°	261.9	261.9	262.7	260.1	257.9	255.5	249.9	245.1	241.1	238.8	234.0
5°	297.7	298.4	296.8	294.5	290.5	284.9	276.9	267.3	259.4	257.9	246.8
7.5°	339.7	339.7	338.2	334.3	329.5	321.6	309.6	296.8	285.8	283.3	266.5
10°	388.3	388.3	387.6	381.2	374.1	364.5	350.2	336.7	321.6	316.7	294.5
12.5°	445.6	444.9	442.4	434.5	425.7	413.8	397.9	381.2	366.9	361.3	334.3
15°	507.7	507.7	504.6	494.2	483.8	469.5	455.3	440.9	422.7	416.3	382.0
17.5°	576.3	575.4	569.0	559.5	545.1	534.0	520.5	503.8	483.8	475.9	436.0
20°	653.3	651.0	642.3	629.5	616.7	602.5	588.8	565.8	549.1	544.4	498.2
22.5°	740.9	736.9	725.8	708.4	693.1	675.6	661.3	641.4	626.3	617.6	572.2
25°	838.7	837.2	823.7	795.0	773.5	753.7	739.3	729.8	716.3	703.6	651.0
27.5°	945.5	941.5	919.1	890.5	857.2	834.9	821.3	814.1	806.1	799.0	737.8
30°	1060.0	1057.7	1028.2	992.4	947.8	919.1	909.7	910.4	908.8	901.7	834.0
32.5°	1184.1	1182.6	1146.0	1100.7	1044.9	1006.7	1004.3	1016.3	1018.7	1013.8	937.6
35°	1317.0	1315.5	1273.3	1216.8	1146.7	1102.2	1105.5	1128.5	1138.8	1134.9	1048.1
37.5°	1452.4	1450.9	1407.0	1337.8	1251.9	1200.9	1210.5	1248.6	1268.5	1265.4	1165.9
40°	1601.1	1586.9	1541.5	1458.8	1360.8	1304.3	1325.9	1376.8	1406.2	1395.1	1289.2
42.5°	1730.1	1719.7	1670.5	1578.1	1471.5	1419.7	1446.0	1512.8	1552.7	1549.4	1421.4
45°	1844.0	1839.2	1790.6	1692.0	1582.2	1530.4	1572.6	1658.5	1707.9	1699.1	1560.6
47.5°	1946.5	1938.6	1894.0	1794.6	1684.0	1646.6	1703.8	1808.1	1869.5	1863.9	1704.7
50°	2015.8	2012.7	1973.7	1879.0	1778.6	1746.8	1841.5	1970.4	2039.7	2033.4	1854.3
52.5°	2047.6	2046.9	2020.6	1941.0	1859.9	1864.6	1981.7	2136.8	2213.2	2210.8	2009.5
55°	2037.4	2036.5	2026.9	1974.5	1923.5	1962.4	2121.6	2306.3	2389.0	2387.4	2159.9
57.5°	1976.0	1979.2	1991.9	1972.9	1965.8	2052.4	2257.0	2471.9	2562.5	2557.7	2307.0
60°	1859.0	1866.1	1906.8	1930.6	1977.6	2116.0	2381.9	2635.0	2724.1	2716.1	2440.9
62.5°	1698.2	1715.0	1775.5	1848.0	1953.8	2159.0	2493.3	2779.8	2868.2	2851.4	2533.8
65°	1506.5	1525.6	1607.5	1726.9	1894.0	2165.5	2572.9	2898.4	2974.7	2953.3	2598.3
67.5°	1293.2	1317.0	1416.5	1573.3	1792.9	2131.1	2601.5	2971.7	3032.0	2997.9	2604.7
68°	1249.5	1273.3	1375.9	1539.2	1766.7	2117.8	2600.8	2978.1	3034.5	2997.9	2595.3
70°	1079.1	1104.6	1216.8	1397.5	1662.6	2050.0	2569.7	2970.9	3013.1	2968.4	2531.6
72.5°	885.0	910.4	1023.3	1215.2	1502.5	1910.8	2460.6	2881.8	2901.5	2849.1	2378.0
75°	710.6	736.9	845.9	1039.3	1329.0	1745.2	2280.1	2695.5	2691.5	2630.1	2146.3
77.5°	562.7	586.6	690.0	873.1	1150.8	1543.1	2047.6	2417.7	2391.5	2327.0	1851.9
80°	442.4	464.0	557.8	725.8	978.9	1331.4	1769.9	2079.4	2035.6	1969.7	1535.2
82.5°	345.4	365.3	448.1	596.8	820.5	1125.2	1471.5	1722.2	1661.7	1601.1	1231.1
85°	269.9	285.8	359.0	487.1	678.0	930.4	1210.5	1375.1	1311.5	1259.1	959.7
87.5°	210.9	224.4	286.5	395.6	559.5	756.1	965.4	1071.1	1011.5	968.6	736.2
90°	165.6	175.1	230.8	320.8	451.2	609.6	758.3	822.0	768.8	735.4	561.9
92.5°	131.3	138.5	183.9	260.1	363.8	483.8	587.3	623.2	578.6	553.9	426.5
95°	105.0	110.6	148.8	212.4	296.0	382.8	452.0	470.4	435.3	416.3	323.8
97.5°	86.0	89.9	122.6	172.7	237.2	303.9	350.2	357.3	328.7	314.3	247.6
100°	71.7	74.0	101.1	143.3	192.5	242.0	272.9	273.8	249.9	238.0	188.6
102.5°	60.5	62.1	84.4	119.4	159.2	194.2	214.9	210.9	189.5	179.9	144.8
105°	51.7	53.3	70.8	100.3	132.9	157.6	169.5	163.1	144.8	137.7	112.2
107.5°	45.4	46.2	59.6	84.4	111.4	129.7	136.9	128.1	112.2	105.8	88.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
110°	39.7	40.7	50.9	72.5	94.0	109.1	111.4	101.1	87.6	82.7	70.8
112.5°	35.0	35.8	44.6	61.3	80.4	91.4	92.3	81.1	69.2	65.2	57.3
115°	31.8	32.6	38.9	52.6	68.5	77.3	76.4	65.2	54.8	51.7	46.9
117.5°	29.5	30.3	35.0	45.4	58.8	65.2	63.7	53.3	44.6	42.2	39.7
120°	27.0	27.8	31.0	38.9	50.1	55.8	52.6	42.9	36.7	35.0	33.4
122.5°	25.4	25.4	27.8	34.2	42.9	46.9	43.7	35.8	30.3	28.7	28.7
125°	23.0	23.9	25.4	29.5	36.7	39.7	36.7	29.5	24.7	24.7	24.7
127.5°	22.3	22.3	23.0	26.3	31.0	33.4	30.3	23.9	20.8	20.8	21.5
130°	20.8	20.8	20.8	23.0	26.3	27.0	23.9	19.1	17.4	17.4	18.2
132.5°	19.1	19.1	19.1	19.9	21.5	21.5	19.1	15.9	15.1	15.1	15.9
135°	17.4	17.4	16.7	16.7	17.4	16.7	15.1	12.8	11.9	12.8	13.6
137.5°	15.1	15.1	15.1	14.4	13.6	12.8	10.3	9.5	9.5	10.3	11.1
140°	12.8	12.8	12.8	11.1	10.3	8.8	7.1	6.4	7.1	7.9	8.8
142.5°	10.3	10.3	10.3	8.8	7.1	5.6	4.0	4.0	4.9	5.6	6.4
145°	7.9	7.9	7.9	6.4	4.9	3.1	2.3	3.1	4.0	4.0	4.9
147.5°	5.6	5.6	5.6	4.0	2.3	0.8	0.8	2.3	3.1	3.1	4.0
150°	3.1	3.1	3.1	1.5	0.8	0.0	0.0	1.5	2.3	2.3	3.1
152.5°	0.8	0.8	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5	2.3
155°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3	228.3
2.5°	230.8	228.3	222.8	217.3	212.4	208.4	205.4	203.7	202.2	201.3	199.8
5°	241.1	235.5	224.4	214.1	204.5	196.5	188.6	183.9	180.6	178.3	177.4
7.5°	258.6	249.9	233.2	217.3	202.2	187.8	178.3	171.8	166.4	163.1	162.4
10°	284.1	272.9	248.3	225.2	204.5	186.2	172.7	163.1	156.8	153.6	153.6
12.5°	320.8	303.9	271.4	239.6	210.9	187.8	171.0	162.4	157.6	155.1	155.1
15°	366.1	343.8	301.7	260.1	223.6	195.0	178.3	168.7	163.9	161.5	161.5
17.5°	416.3	387.6	335.1	282.4	236.3	207.7	186.2	175.1	169.5	167.2	167.2
20°	473.5	440.9	370.9	304.9	253.1	219.6	195.0	180.6	175.1	173.6	172.7
22.5°	538.8	496.7	409.8	327.9	269.9	229.2	202.2	185.4	180.6	179.0	179.0
25°	611.1	560.3	452.0	352.6	283.3	236.3	207.7	191.0	185.4	184.6	183.9
27.5°	687.7	627.9	494.2	376.4	293.7	240.3	210.9	195.8	189.5	189.5	188.6
30°	776.8	698.7	534.9	396.3	300.0	242.0	211.7	198.2	192.5	193.3	194.2
32.5°	865.8	773.5	575.4	413.8	304.9	242.7	211.7	199.0	193.3	195.8	195.8
35°	960.6	850.8	614.4	428.1	307.2	242.0	211.7	200.5	194.2	196.5	197.4
37.5°	1060.0	929.6	651.8	439.4	308.7	241.1	211.7	200.5	195.0	197.4	197.4
40°	1161.9	1008.3	687.7	447.3	308.7	240.3	210.9	200.5	196.5	196.5	197.4
42.5°	1271.7	1090.4	720.3	453.6	308.7	238.8	210.9	200.5	195.0	195.8	196.5
45°	1387.9	1174.7	751.3	458.3	307.9	238.8	210.2	199.8	194.2	193.3	194.2
47.5°	1501.7	1262.2	781.4	463.2	307.2	239.6	210.2	199.0	192.5	189.5	190.3
50°	1627.5	1352.8	812.5	466.4	307.9	239.6	210.9	198.2	190.3	186.2	186.9
52.5°	1751.7	1443.7	842.8	470.4	307.9	240.3	210.9	196.5	187.8	182.3	183.1
55°	1882.9	1533.5	872.3	474.3	308.7	241.1	211.7	195.0	185.4	179.0	179.9
57.5°	1997.6	1619.6	898.5	476.7	308.7	242.7	211.7	194.2	183.1	175.9	175.9
60°	2102.6	1699.1	920.0	477.4	308.7	242.7	211.7	192.5	181.5	172.7	172.7
62.5°	2182.2	1752.5	930.4	475.9	307.2	242.7	210.9	191.0	179.9	170.3	170.3
65°	2222.8	1775.5	925.6	470.4	305.7	242.0	210.2	188.6	177.4	168.7	168.0
67.5°	2212.3	1758.1	902.4	459.3	301.7	239.6	207.7	185.4	175.9	167.2	165.6
68°	2202.0	1744.5	895.3	456.0	299.2	238.8	206.9	185.4	175.1	167.2	165.6
70°	2131.9	1686.4	857.9	442.4	295.3	235.5	204.5	182.3	172.7	165.6	163.9
72.5°	1983.9	1560.6	795.0	419.4	285.8	230.0	199.0	178.3	169.5	163.1	160.7
75°	1771.5	1392.7	716.3	392.3	273.8	222.8	191.8	172.7	164.7	159.2	156.8
77.5°	1529.5	1195.4	629.5	359.7	259.4	214.1	183.9	166.4	159.2	154.4	150.3
80°	1265.4	992.4	541.9	325.5	243.5	202.9	175.1	158.5	152.1	146.5	143.3
82.5°	1014.6	803.9	459.3	292.8	224.4	188.6	164.7	148.8	142.4	137.7	133.7
85°	795.0	640.6	384.4	259.4	206.9	175.9	153.6	138.5	132.9	127.3	123.3
87.5°	616.0	503.8	322.3	228.3	186.9	161.5	142.4	128.1	121.8	115.4	112.2
90°	475.9	396.3	266.5	199.0	169.5	148.0	130.6	117.0	109.9	104.3	101.1
92.5°	366.9	312.8	221.3	174.4	151.3	133.7	118.5	106.7	98.6	91.4	89.1
95°	284.1	247.6	183.9	151.3	134.4	120.2	107.4	95.5	86.7	79.6	77.3
97.5°	221.3	195.8	152.8	130.6	118.5	106.7	95.5	85.2	76.4	67.6	66.0
100°	171.0	155.1	128.1	112.9	104.3	94.0	84.4	75.5	65.2	57.3	56.6
102.5°	134.4	124.1	107.4	97.8	90.6	82.7	74.7	66.0	55.8	47.8	46.9
105°	106.7	100.3	89.9	83.5	78.8	72.5	66.0	57.3	46.2	39.7	39.7
107.5°	85.2	81.1	75.5	71.7	68.5	62.9	57.3	48.6	38.2	32.6	33.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	69.2	66.8	63.7	62.1	59.6	54.8	49.3	41.4	31.8	27.0	27.8
112.5°	56.6	55.8	54.1	53.3	51.7	47.8	42.2	34.2	25.4	23.0	23.0
115°	46.9	46.2	46.2	45.4	44.6	41.4	35.8	28.7	20.8	19.1	19.1
117.5°	39.7	39.7	38.9	38.9	38.2	35.0	30.3	23.9	16.7	15.9	15.9
120°	33.4	33.4	33.4	33.4	32.6	29.5	25.4	19.1	13.6	13.6	13.6
122.5°	28.7	29.5	28.7	28.7	27.8	25.4	20.8	15.1	11.1	11.1	11.9
125°	24.7	24.7	24.7	23.9	23.0	20.8	16.7	11.9	9.5	9.5	9.5
127.5°	21.5	21.5	21.5	20.8	19.1	17.4	13.6	9.5	7.9	7.9	7.9
130°	19.1	18.2	18.2	17.4	15.9	13.6	10.3	7.1	6.4	6.4	6.4
132.5°	15.9	15.9	15.1	14.4	12.8	10.3	7.9	4.9	4.9	5.6	5.6
135°	13.6	13.6	12.8	11.1	9.5	7.9	5.6	4.0	4.0	4.0	4.0
137.5°	11.1	11.1	10.3	8.8	7.1	4.9	3.1	2.3	2.3	3.1	3.1
140°	8.8	8.8	7.9	6.4	4.9	3.1	1.5	0.8	1.5	1.5	1.5
142.5°	6.4	6.4	5.6	4.0	2.3	1.5	0.0	0.8	0.8	0.8	0.8
145°	4.9	4.9	4.0	3.1	1.5	0.8	0.0	0.0	0.8	0.0	0.0
147.5°	4.0	4.0	3.1	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.1	2.3	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.3	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	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)