

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: P266245

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T3-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)  
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-T3-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7217.8 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G3

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

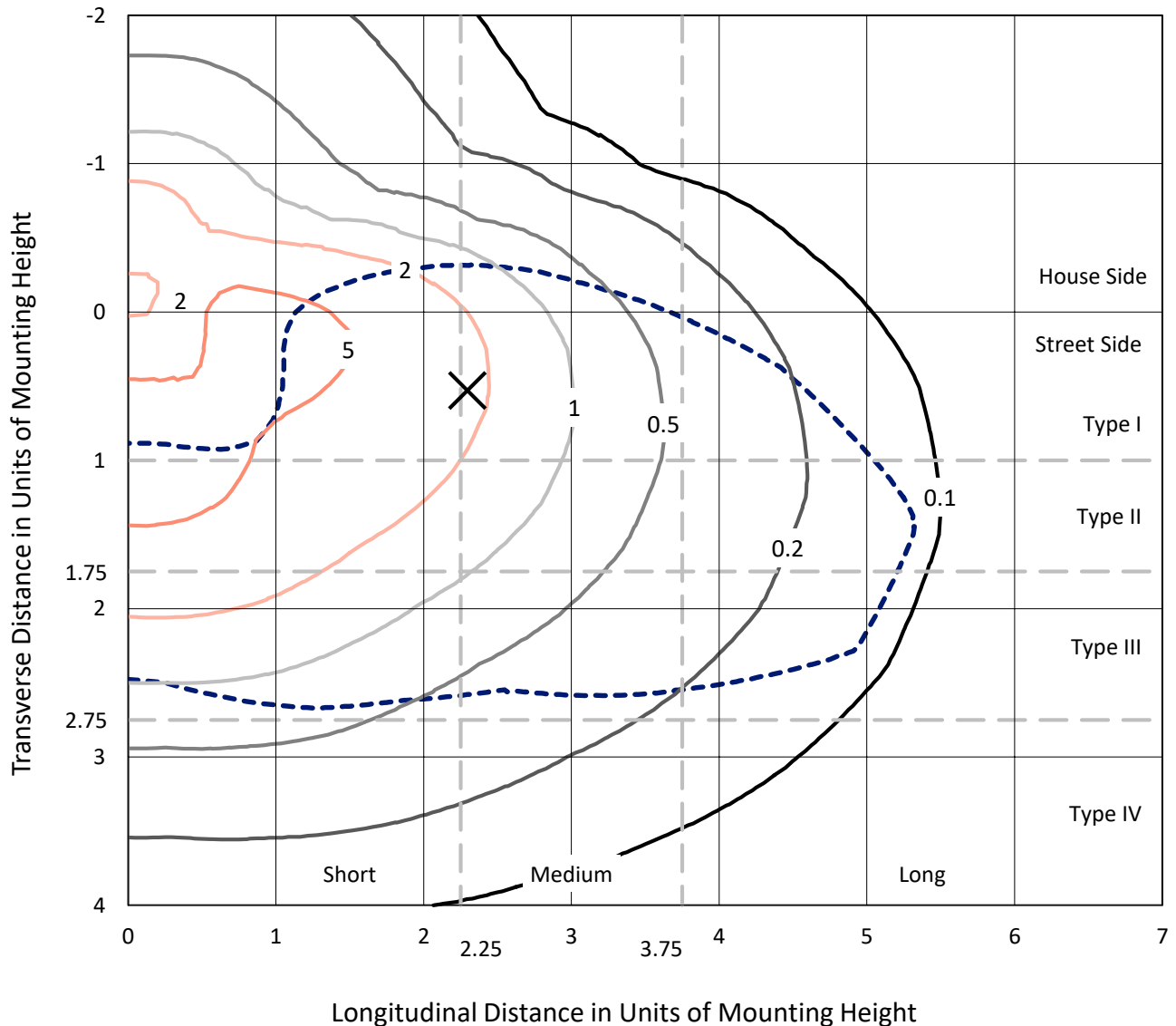


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

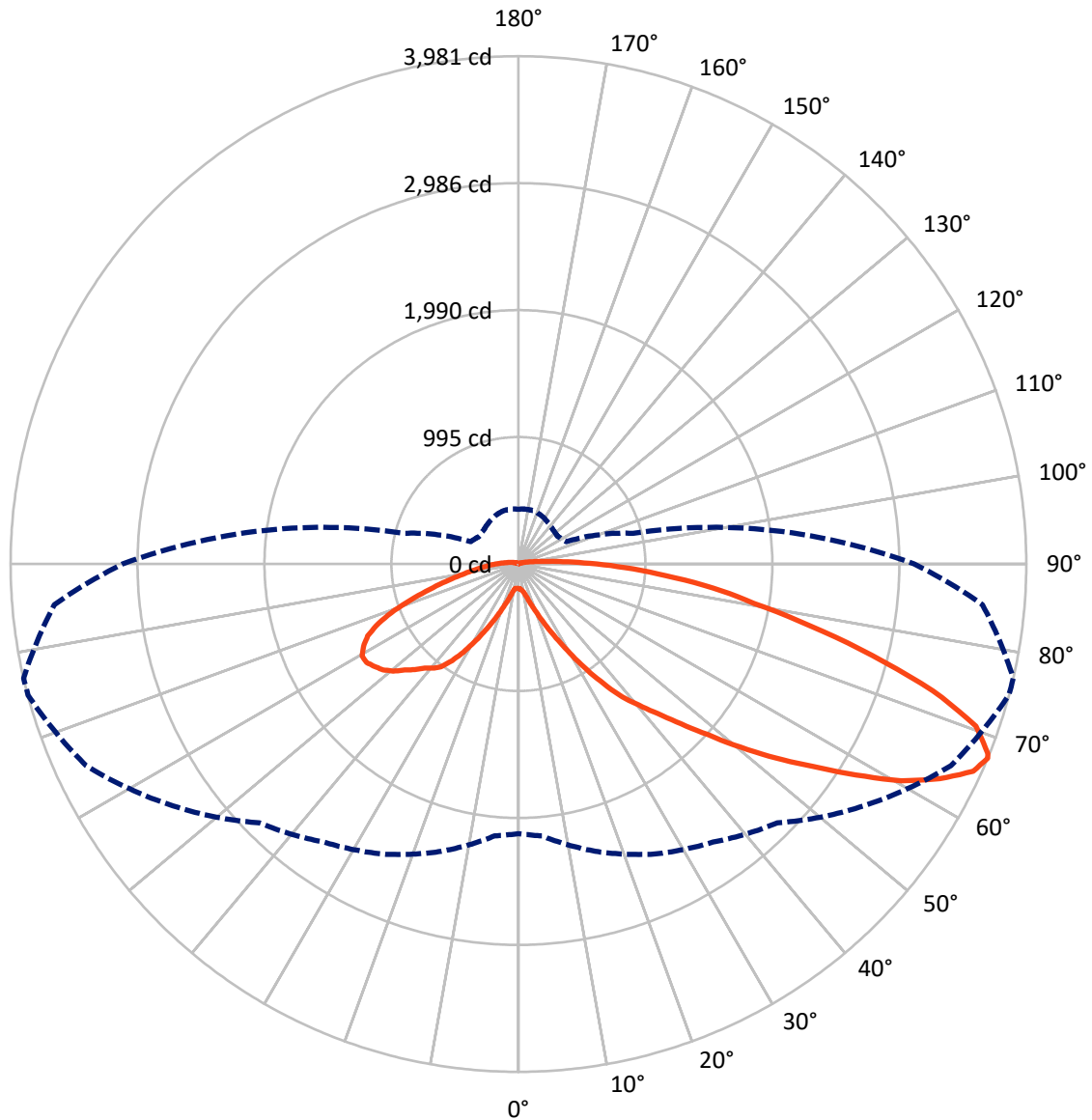


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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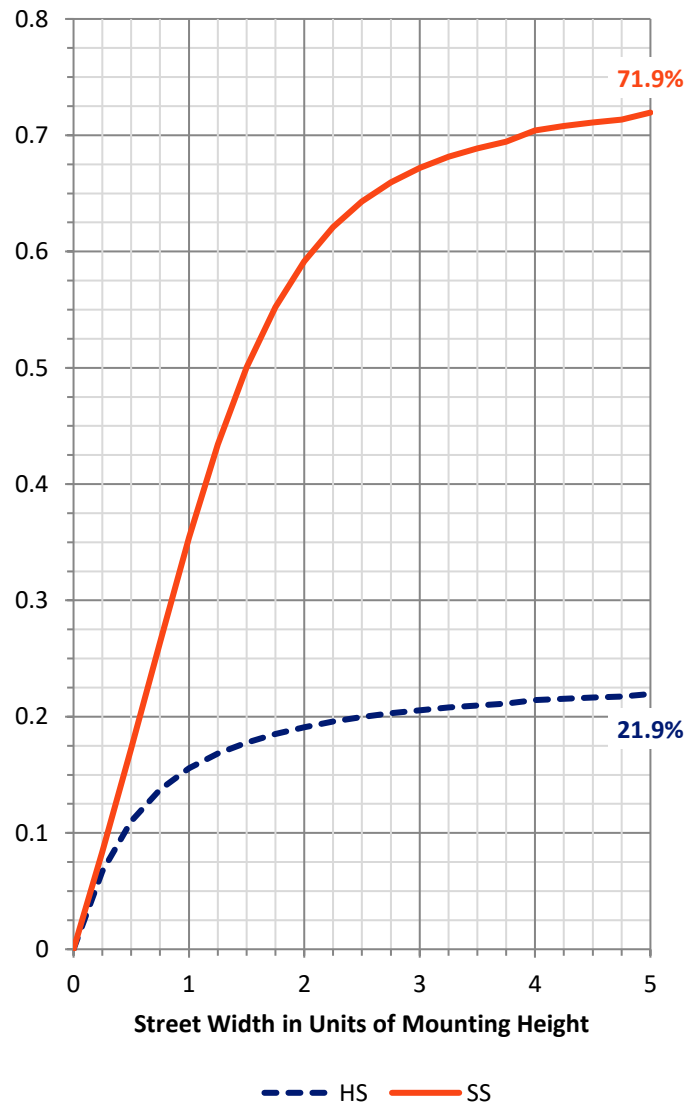
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1655.0	105.2	1760.2
	% Fixture	22.9	1.5	24.4
<b>Street Side</b>	Lumens	5320.6	136.9	5457.6
	% Fixture	73.7	1.9	75.6
<b>Total</b>	Lumens	6975.6	242.2	7217.8
	% Fixture	96.6	3.4	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.3	0.3
10°-20°	81.1	1.1
20°-30°	237.0	3.3
30°-40°	550.8	7.6
40°-50°	966.2	13.4
50°-60°	1484.7	20.6
60°-70°	1836.0	25.4
70°-80°	1281.7	17.8
80°-90°	518.8	7.2
90°-100°	153.3	2.1
100°-110°	49.5	0.7
110°-120°	21.0	0.3
120°-130°	10.9	0.2
130°-140°	5.6	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6975.6	96.6
0°-180°	7217.8	100.0

**Coefficient of Utilization**



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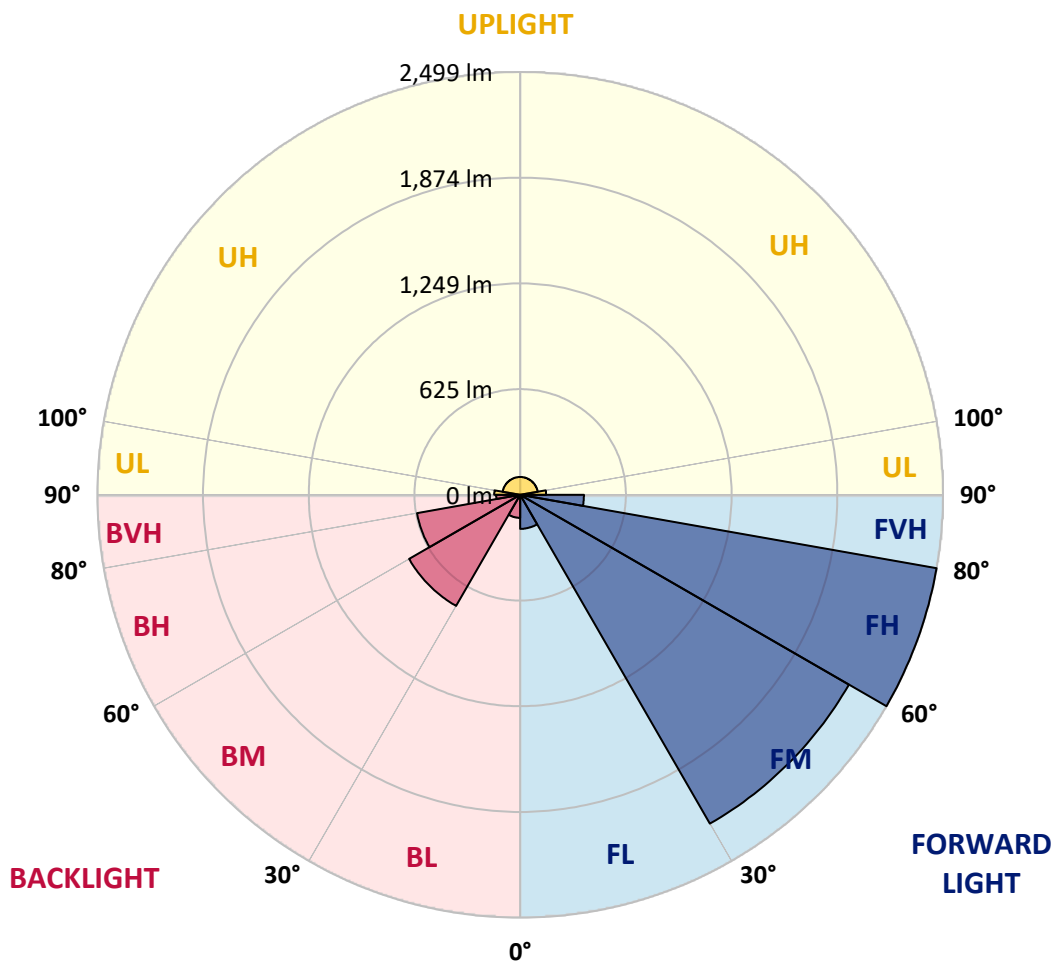
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-A-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.2	2.8			
FM	(30°-60°)	2243.6	31.1			
FH	(60°-80°)	2498.9	34.6			G2/5000
FVH	(80°-90°)	376.9	5.2			G3/500
BL	(0°-30°)	136.2	1.9	B1/500		
BM	(30°-60°)	758.0	10.5	B1/1000		
BH	(60°-80°)	618.9	8.6	B2/1000		G2/1000
BVH	(80°-90°)	141.9	2.0			G2/225
UL	(90°-100°)	153.3	2.1		U3/500	
UH	(100°-180°)	105.2	1.5		U3/500	

**BUG Rating: B2-U3-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0
2.5°	204.2	205.1	205.1	205.1	204.2	202.5	199.9	198.0	195.6	194.7	192.9
5°	219.8	219.8	219.8	218.9	217.2	213.7	210.3	205.9	200.7	199.9	196.4
7.5°	237.2	238.1	237.2	235.4	231.1	227.6	222.4	216.3	210.3	208.5	204.2
10°	262.3	262.3	260.7	257.2	251.0	244.1	238.1	231.1	225.0	223.3	218.1
12.5°	300.7	300.7	297.1	287.5	278.0	268.5	261.4	256.2	252.9	250.2	246.8
15°	349.4	350.1	344.9	330.1	318.0	303.2	297.1	296.4	295.5	292.8	289.3
17.5°	408.3	408.3	399.7	379.7	364.1	350.1	344.1	344.1	344.1	344.1	342.3
20°	478.7	479.5	468.2	439.6	423.1	406.7	400.6	401.5	404.9	405.8	405.8
22.5°	569.0	572.6	555.2	516.0	496.1	471.8	467.4	471.8	481.3	483.9	488.3
25°	692.5	687.3	664.7	613.5	583.9	554.3	547.3	559.6	577.8	583.0	592.5
27.5°	821.9	822.8	790.6	728.0	678.6	642.9	639.5	663.8	689.9	696.7	712.4
30°	987.0	988.8	940.0	862.7	788.9	743.6	743.6	783.7	823.7	835.0	860.1
32.5°	1185.0	1183.3	1111.3	1018.3	915.7	860.1	861.8	920.0	977.4	990.4	1013.8
35°	1415.3	1412.8	1317.2	1194.7	1058.3	986.1	994.0	1067.7	1141.7	1153.9	1191.2
37.5°	1650.7	1653.4	1547.4	1391.8	1215.4	1120.7	1135.5	1223.3	1313.6	1322.3	1351.9
40°	1863.7	1876.6	1769.8	1596.0	1385.7	1262.4	1279.7	1364.0	1452.6	1456.2	1467.4
42.5°	2067.8	2069.5	1980.0	1795.0	1562.2	1418.9	1420.5	1501.2	1585.6	1600.4	1605.6
45°	2198.2	2216.4	2144.3	1977.3	1740.2	1578.6	1563.9	1644.6	1768.9	1786.3	1786.3
47.5°	2346.7	2365.7	2283.2	2141.6	1912.3	1739.4	1727.3	1830.6	1979.1	1997.4	1990.5
50°	2513.5	2537.0	2476.9	2323.2	2083.3	1910.5	1931.4	2052.2	2232.0	2258.1	2250.3
52.5°	2640.4	2665.5	2629.1	2520.5	2275.4	2110.4	2132.9	2301.5	2500.4	2526.6	2497.0
55°	2687.3	2722.0	2733.4	2677.7	2473.6	2322.4	2391.8	2574.4	2769.8	2797.6	2766.3
57.5°	2685.6	2721.1	2764.5	2756.8	2639.5	2540.4	2642.1	2855.0	3091.2	3119.1	3086.9
60°	2666.3	2708.1	2788.0	2798.5	2732.5	2732.5	2896.7	3189.4	3425.7	3451.0	3358.9
62.5°	2500.4	2552.7	2698.6	2803.7	2783.7	2855.8	3129.4	3466.6	3695.1	3707.2	3534.3
65°	2292.8	2341.4	2502.1	2672.5	2767.1	2899.3	3281.5	3663.7	3902.7	3916.6	3668.1
67°	2113.0	2139.0	2331.0	2509.1	2660.3	2869.7	3305.0	3739.5	3978.4	3980.8	3651.6
67.5°	2048.7	2075.7	2271.1	2461.4	2623.1	2848.9	3292.8	3746.3	3974.0	3968.7	3620.3
70°	1711.6	1727.3	1931.4	2176.5	2358.1	2623.8	3141.6	3611.6	3821.1	3805.4	3406.6
72.5°	1265.1	1278.0	1490.0	1788.0	2002.6	2295.3	2814.1	3324.9	3441.3	3398.7	2933.1
75°	876.7	887.0	1052.2	1306.8	1588.3	1897.5	2405.8	2829.8	2915.8	2862.8	2431.0
77.5°	579.4	587.3	715.9	916.6	1175.5	1517.0	1957.4	2338.0	2407.5	2345.8	1952.2
80°	367.4	373.5	469.2	627.2	861.8	1190.3	1571.7	1901.8	1931.4	1873.1	1525.6
82.5°	232.8	238.9	303.2	424.9	618.7	906.2	1236.3	1532.6	1572.6	1537.8	1192.9
85°	149.5	158.1	204.2	291.1	438.7	664.7	963.5	1219.0	1214.6	1157.2	875.8
87.5°	106.0	112.9	147.7	207.7	309.2	470.9	704.6	884.4	874.1	835.9	609.1
90°	79.1	84.4	109.5	151.2	222.4	330.1	488.3	612.6	582.1	558.7	402.4
92.5°	58.2	62.5	81.7	110.3	159.0	231.1	322.3	396.2	364.9	348.5	254.6
95°	42.6	45.2	59.9	80.8	115.5	160.7	211.1	249.4	224.1	212.9	160.7
97.5°	33.0	34.8	46.1	62.5	86.0	115.5	142.6	156.3	142.6	135.6	111.2
100°	27.8	28.7	38.2	49.5	67.7	87.8	101.7	106.9	98.2	93.9	80.8
102.5°	23.4	24.3	31.4	40.9	54.7	69.4	76.4	78.2	70.3	67.7	60.8
105°	20.0	20.8	26.9	34.8	46.1	56.5	59.9	58.2	51.3	49.5	46.1
107.5°	17.3	18.2	22.5	29.6	38.2	46.9	47.8	44.2	38.2	36.6	34.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	15.6	15.6	20.0	25.2	33.0	39.0	39.0	33.9	28.7	27.8	27.8
112.5°	14.0	14.0	17.3	21.6	28.7	33.0	32.2	26.9	21.6	20.8	21.6
115°	12.1	12.1	14.7	20.0	25.2	28.7	26.9	21.6	16.4	16.4	18.2
117.5°	11.3	11.3	14.0	18.2	22.5	25.2	22.5	17.3	14.0	14.0	14.7
120°	10.4	10.4	13.0	16.4	20.8	22.5	20.0	14.7	11.3	11.3	13.0
122.5°	10.4	10.4	12.1	15.6	19.1	20.0	17.3	13.0	9.5	10.4	11.3
125°	10.4	11.3	12.1	14.7	17.3	17.3	14.7	11.3	8.8	8.8	10.4
127.5°	11.3	11.3	12.1	14.0	15.6	15.6	13.0	9.5	8.8	8.8	9.5
130°	12.1	12.1	12.1	13.0	14.0	13.0	11.3	8.8	7.8	7.8	8.8
132.5°	12.1	12.1	12.1	12.1	12.1	11.3	9.5	7.8	6.9	7.8	8.8
135°	11.3	11.3	11.3	11.3	10.4	9.5	7.8	6.1	6.1	6.1	6.9
137.5°	10.4	9.5	9.5	9.5	8.8	7.8	6.1	4.3	5.2	5.2	6.1
140°	8.8	8.8	8.8	7.8	6.9	6.1	4.3	3.5	4.3	4.3	5.2
142.5°	6.9	6.9	6.9	6.1	5.2	4.3	2.6	2.6	3.5	4.3	4.3
145°	5.2	5.2	5.2	4.3	3.5	2.6	1.7	2.6	3.5	3.5	3.5
147.5°	3.5	3.5	3.5	3.5	1.7	0.9	1.7	1.7	2.6	2.6	3.5
150°	1.7	1.7	2.6	1.7	0.9	0.9	0.9	1.7	1.7	2.6	2.6
152.5°	0.9	0.9	1.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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°	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0
2.5°	192.0	191.1	189.5	186.8	185.1	184.2	184.2	182.4	182.4	182.4	181.5
5°	195.6	192.9	189.5	185.9	182.4	179.8	179.0	177.2	175.4	175.4	174.6
7.5°	200.7	198.0	192.0	186.8	181.5	178.1	176.3	174.6	173.0	172.0	171.1
10°	214.5	211.1	201.6	192.9	185.9	180.6	178.1	176.3	174.6	174.6	173.7
12.5°	243.4	237.2	225.0	210.3	195.6	187.7	185.1	191.1	193.8	196.4	196.4
15°	285.8	279.7	261.4	239.8	218.1	203.2	207.7	216.3	223.3	227.6	227.6
17.5°	337.9	328.4	305.9	274.5	245.9	235.4	233.6	243.4	253.7	259.8	259.8
20°	399.7	388.3	357.0	314.4	282.3	266.7	263.3	271.9	284.1	293.7	293.7
22.5°	479.5	466.6	420.4	360.6	318.9	297.1	292.8	301.6	318.9	332.0	331.0
25°	583.9	563.0	499.5	416.2	355.4	324.9	321.5	335.3	358.9	377.1	379.7
27.5°	704.6	675.0	580.3	476.1	390.9	349.4	350.1	369.3	397.9	417.9	417.9
30°	841.1	809.7	677.7	535.2	421.3	370.1	373.5	398.8	427.5	447.4	447.4
32.5°	999.2	953.1	780.2	593.4	448.3	385.7	389.2	419.7	448.3	470.1	470.9
35°	1159.1	1096.4	873.2	641.2	470.9	398.8	400.6	436.1	467.4	491.7	494.3
37.5°	1305.0	1224.2	955.6	674.2	481.3	404.9	407.6	448.3	484.7	507.5	507.5
40°	1409.3	1307.6	995.7	682.1	483.9	406.7	414.4	456.1	483.9	494.3	490.0
42.5°	1527.4	1402.3	1020.8	669.0	474.3	405.8	417.9	450.9	465.7	466.6	462.2
45°	1692.4	1530.1	1066.8	657.6	457.0	404.0	413.6	437.8	442.2	434.4	429.2
47.5°	1883.6	1669.1	1105.2	643.7	445.6	399.7	407.6	422.3	418.8	404.9	400.6
50°	2099.1	1845.4	1153.0	626.4	437.0	394.4	401.5	411.0	406.7	391.8	388.3
52.5°	2310.3	2000.0	1183.3	608.2	429.2	391.8	397.1	408.3	403.1	385.7	380.5
55°	2531.8	2157.3	1190.3	576.9	423.1	391.8	397.9	410.0	404.0	385.7	380.5
57.5°	2792.4	2326.7	1190.3	540.4	413.6	393.5	400.6	412.7	407.6	389.2	384.8
60°	3004.4	2447.4	1165.1	508.3	402.4	393.5	401.5	414.4	413.6	400.6	397.9
62.5°	3121.7	2491.8	1096.4	472.7	392.6	390.9	402.4	418.8	424.9	415.2	412.7
65°	3184.2	2476.9	1016.5	437.0	384.0	385.7	402.4	421.3	430.9	425.7	422.3
67°	3102.6	2372.8	928.8	412.7	375.3	381.4	400.6	421.3	434.4	432.7	429.2
67.5°	3061.8	2331.0	903.5	408.3	372.7	380.5	399.7	421.3	434.4	434.4	430.9
70°	2807.2	2096.5	772.5	376.2	356.2	367.4	390.1	417.1	431.8	432.7	430.9
72.5°	2372.8	1723.8	637.6	345.8	335.3	348.5	376.2	404.0	417.9	416.2	414.4
75°	1933.2	1390.0	519.6	316.3	311.1	325.8	351.0	377.1	386.6	382.3	380.5
77.5°	1530.8	1084.3	425.7	287.5	286.6	299.8	319.7	338.8	344.1	336.2	335.3
80°	1176.4	828.9	348.5	264.1	261.4	271.1	284.9	298.0	301.6	293.7	291.9
82.5°	901.0	628.2	289.3	238.1	237.2	242.5	252.0	260.7	266.7	258.9	256.2
85°	651.6	459.7	243.4	210.3	211.1	213.7	219.8	226.0	234.5	232.0	228.4
87.5°	454.5	333.6	206.8	184.2	184.2	185.9	189.5	195.6	206.8	205.9	202.5
90°	309.2	240.7	173.7	160.7	158.1	159.0	161.5	165.1	175.4	174.6	172.0
92.5°	206.8	171.1	140.8	132.9	132.1	132.9	132.9	135.6	140.8	138.1	135.6
95°	138.1	123.3	112.1	107.7	106.0	106.9	106.9	105.1	108.7	104.3	101.7
97.5°	99.1	93.0	90.4	86.9	84.4	85.2	85.2	83.5	84.4	78.2	76.4
100°	75.5	73.8	73.8	70.3	67.7	68.6	68.6	67.7	67.0	59.9	59.1
102.5°	59.9	59.1	59.9	57.3	54.7	56.5	55.7	54.7	53.0	46.9	46.1
105°	46.9	46.9	49.5	46.9	45.2	46.1	46.1	44.2	42.6	37.4	37.4
107.5°	36.6	37.4	40.0	38.2	37.4	38.2	37.4	35.7	33.0	29.6	29.6



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.7	30.5	33.0	32.2	31.4	32.2	30.5	28.7	26.1	24.3	24.3
112.5°	23.4	24.3	26.9	26.9	26.1	26.9	25.2	22.5	20.8	20.0	20.0
115°	19.1	20.8	22.5	22.5	22.5	22.5	20.8	18.2	16.4	16.4	16.4
117.5°	16.4	17.3	19.1	19.1	19.1	19.1	17.3	14.7	13.0	14.0	14.0
120°	14.0	14.7	16.4	16.4	16.4	16.4	14.7	12.1	10.4	11.3	11.3
122.5°	12.1	13.0	14.0	14.7	14.7	14.0	12.1	10.4	8.8	9.5	9.5
125°	11.3	12.1	12.1	13.0	12.1	12.1	10.4	8.8	7.8	8.8	8.8
127.5°	10.4	11.3	11.3	11.3	11.3	9.5	8.8	6.9	6.1	6.9	7.8
130°	9.5	10.4	10.4	9.5	8.8	7.8	6.9	6.1	5.2	6.1	6.9
132.5°	9.5	9.5	9.5	8.8	7.8	6.1	5.2	4.3	4.3	5.2	6.1
135°	7.8	7.8	7.8	6.9	5.2	4.3	3.5	3.5	3.5	4.3	4.3
137.5°	6.1	6.9	6.1	5.2	4.3	3.5	2.6	2.6	2.6	3.5	3.5
140°	5.2	5.2	5.2	4.3	3.5	1.7	0.9	0.9	1.7	1.7	2.6
142.5°	4.3	5.2	4.3	3.5	2.6	0.9	0.0	0.9	0.9	0.9	0.9
145°	4.3	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.9	0.0	0.0
147.5°	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.6	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.7	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	0.9	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)