

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: P266188

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-CL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-24)  
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-T3-CL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6755.4 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G2

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

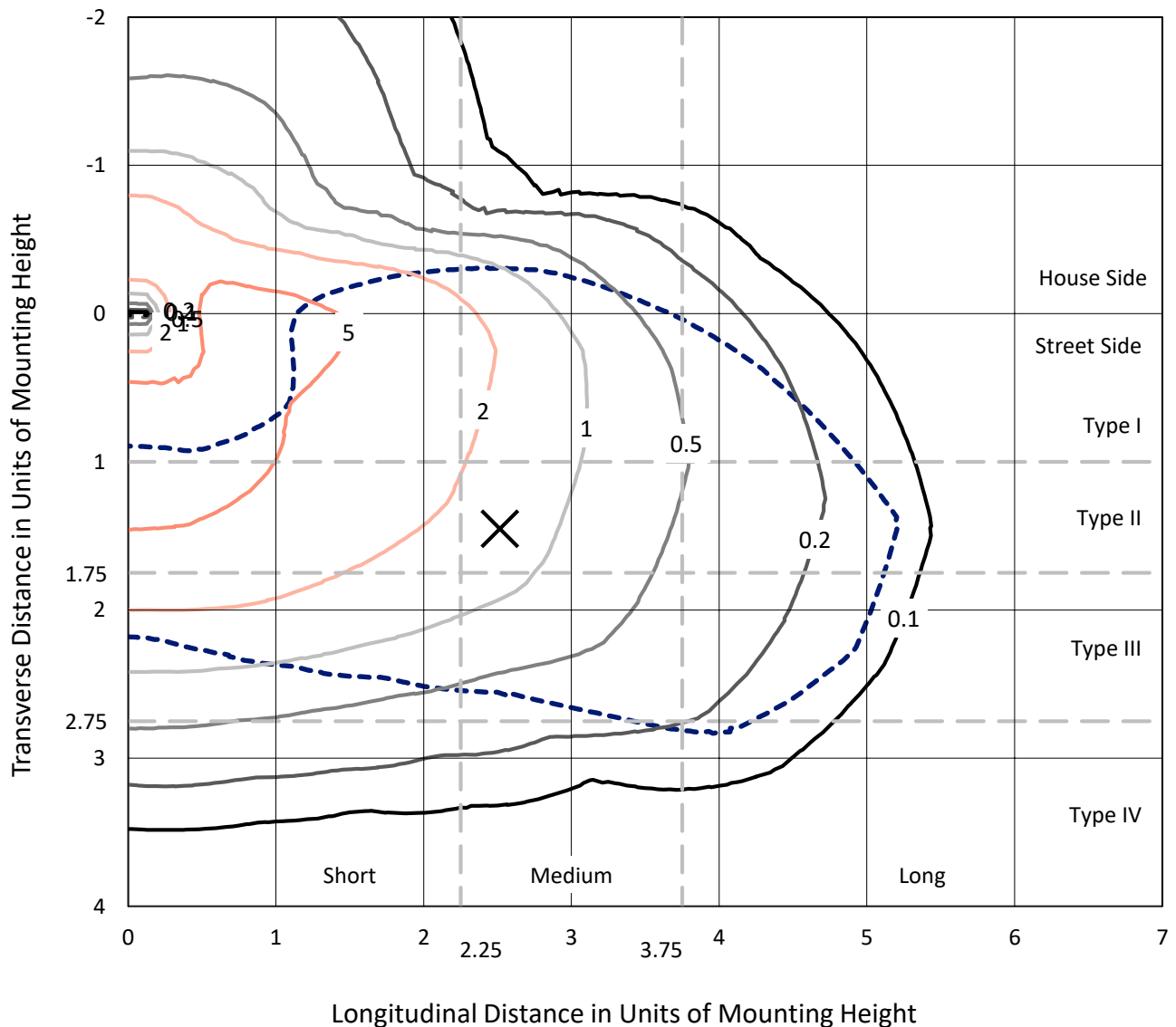


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

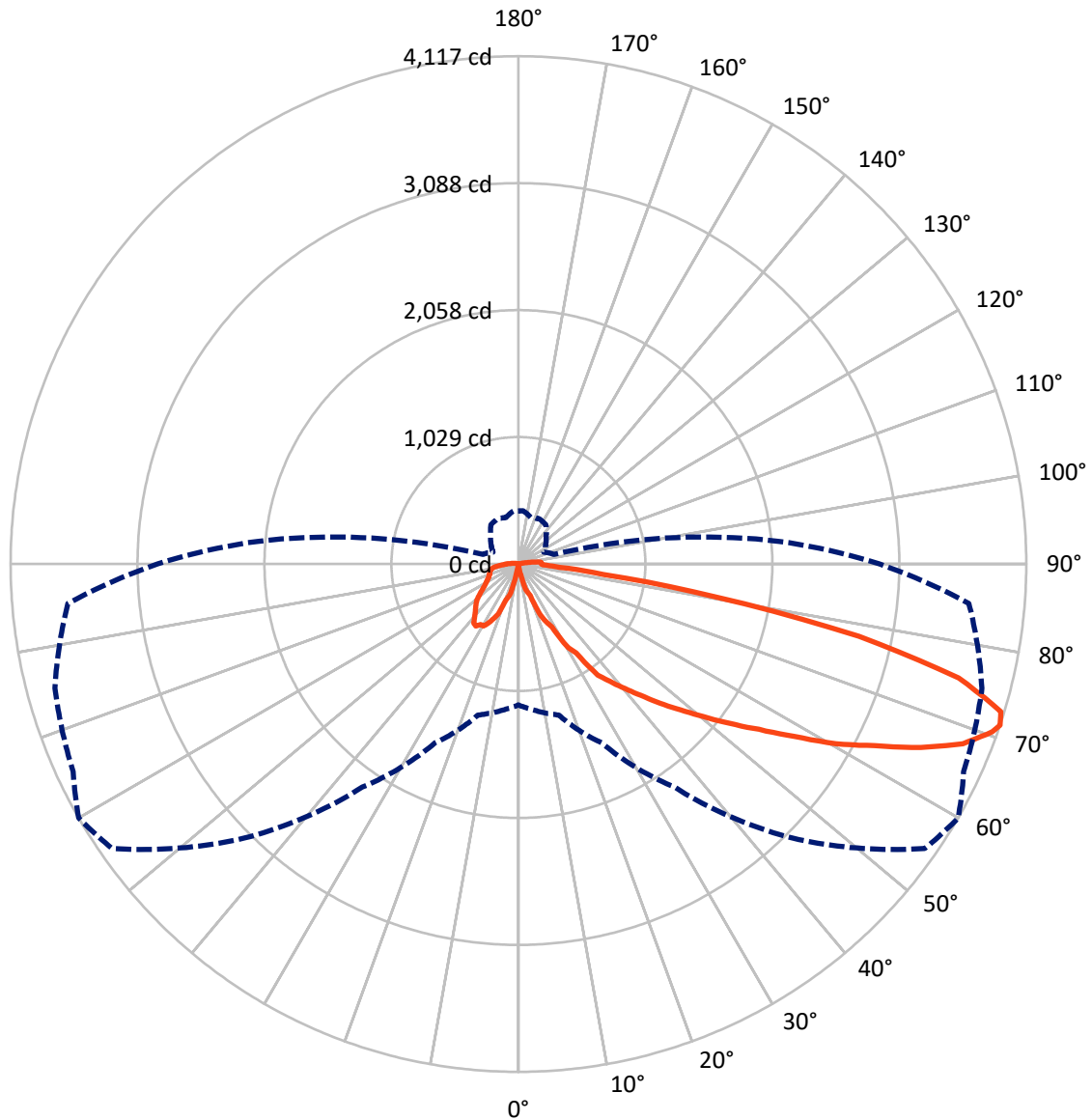


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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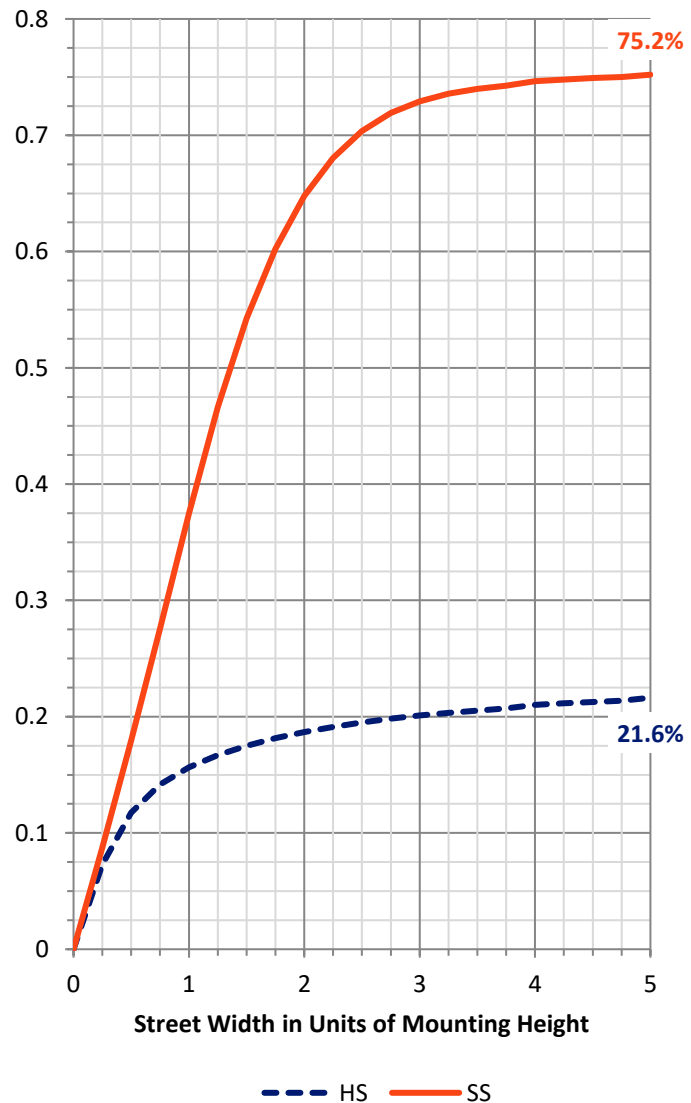
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1534.7	49.8	1584.4
	% Fixture	22.7	0.7	23.5
<b>Street Side</b>	Lumens	5122.5	48.5	5171.0
	% Fixture	75.8	0.7	76.5
<b>Total</b>	Lumens	6657.2	98.3	6755.4
	% Fixture	98.5	1.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	60.7	0.9
20°-30°	249.1	3.7
30°-40°	560.1	8.3
40°-50°	972.3	14.4
50°-60°	1473.3	21.8
60°-70°	1815.7	26.9
70°-80°	1237.5	18.3
80°-90°	284.8	4.2
90°-100°	87.0	1.3
100°-110°	8.1	0.1
110°-120°	1.3	0.0
120°-130°	0.9	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6657.2	98.5
0°-180°	6755.4	100.0



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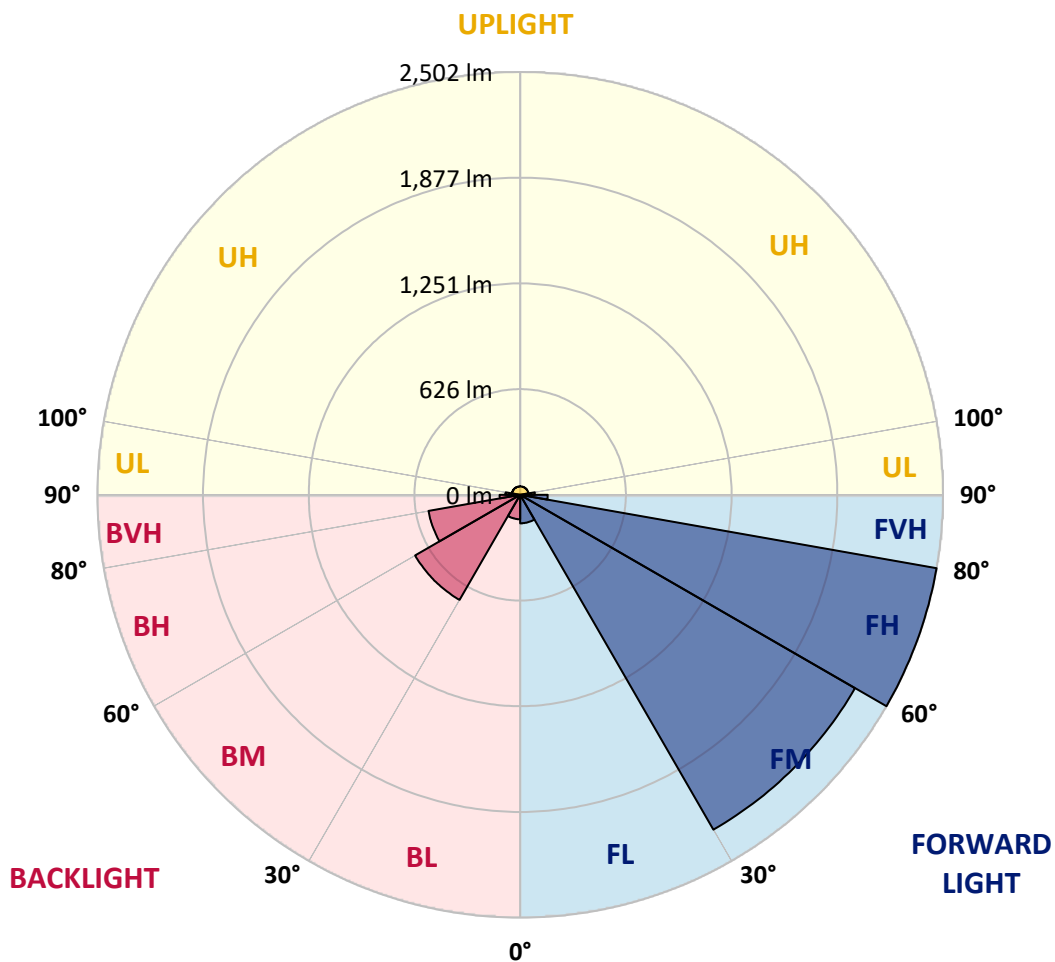
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-CL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.8	2.5			
FM	(30°-60°)	2288.1	33.9			
FH	(60°-80°)	2502.4	37.0			G2/5000
FVH	(80°-90°)	163.3	2.4			G2/225
BL	(0°-30°)	144.7	2.1	B1/500		
BM	(30°-60°)	717.7	10.6	B1/1000		
BH	(60°-80°)	550.8	8.2	B2/1000		G2/1000
BVH	(80°-90°)	121.5	1.8			G2/225
UL	(90°-100°)	87.0	1.3		U3/500	
UH	(100°-180°)	49.8	0.7		U2/50	

**BUG Rating: B2-U3-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	4.0	4.9	3.1	4.0	4.0	3.1	2.3	2.3	3.1	3.1	2.3
5°	72.5	73.2	76.4	78.8	27.0	19.1	7.1	4.9	4.0	3.1	3.1
7.5°	91.4	89.9	88.4	83.5	86.0	80.4	47.7	19.9	9.5	4.0	3.1
10°	105.8	105.8	98.6	93.2	92.3	90.6	86.0	78.8	37.4	7.9	5.6
12.5°	193.3	187.8	179.0	147.2	112.2	101.1	98.6	101.1	82.7	81.9	109.9
15°	221.3	222.8	218.1	206.2	199.8	128.9	169.5	210.9	211.7	169.5	191.0
17.5°	287.3	285.8	261.0	238.0	231.6	246.8	247.6	237.2	238.0	211.7	225.2
20°	427.4	431.4	410.6	347.7	281.7	325.5	315.9	274.5	280.1	399.4	412.2
22.5°	501.3	509.2	484.6	458.3	454.5	361.3	408.3	436.0	423.5	471.2	474.2
25°	744.1	722.5	629.5	538.8	550.8	481.4	528.5	514.1	491.8	526.9	609.6
27.5°	810.1	815.8	791.9	745.7	631.9	657.3	599.2	575.4	662.9	739.3	761.7
30°	960.6	960.6	875.4	857.9	807.8	734.5	784.0	776.8	791.9	803.8	845.1
32.5°	1166.7	1153.2	1114.9	982.8	927.9	840.4	904.1	860.2	886.5	1049.7	1118.8
35°	1379.2	1378.3	1247.8	1150.6	1038.5	1025.0	994.8	1107.8	1138.8	1146.0	1214.4
37.5°	1649.6	1652.2	1581.2	1296.3	1181.0	1118.8	1198.5	1205.6	1242.3	1305.1	1326.5
40°	1862.9	1850.2	1759.5	1547.1	1359.2	1270.9	1340.1	1328.2	1391.0	1441.2	1472.2
42.5°	2129.6	2121.5	1996.8	1750.7	1605.9	1465.0	1484.2	1453.2	1498.6	1623.4	1636.2
45°	2380.2	2365.1	2249.7	1987.1	1835.1	1679.9	1638.6	1609.9	1620.3	1761.9	1810.4
47.5°	2548.2	2530.6	2486.9	2229.1	2109.7	1906.7	1821.7	1764.4	1777.0	1935.4	2015.7
50°	2758.2	2700.1	2661.1	2430.4	2345.3	2181.4	2000.6	1944.9	1973.5	2118.5	2243.3
52.5°	2870.4	2791.8	2792.6	2627.7	2547.4	2431.3	2200.4	2146.3	2184.5	2322.9	2504.5
55°	2786.2	2778.2	2847.4	2753.5	2708.1	2607.9	2416.1	2366.8	2429.6	2591.2	2791.8
57.5°	2666.0	2677.8	2820.4	2865.0	2865.0	2784.6	2655.6	2634.9	2702.6	2866.5	3067.8
60°	2528.3	2557.7	2740.0	2868.1	2962.8	2957.9	2914.2	2957.2	2977.2	3133.1	3404.4
62.5°	2326.2	2339.6	2553.0	2812.4	2967.6	3119.5	3186.4	3241.4	3316.9	3445.0	3692.6
65°	2094.6	2111.2	2324.5	2662.8	2941.3	3225.5	3453.1	3585.9	3609.0	3711.6	3900.3
67.5°	1795.4	1813.7	1999.8	2381.9	2837.8	3311.3	3724.4	3886.7	3847.7	3833.3	3949.6
70°	1391.0	1390.2	1521.5	1872.5	2459.7	3277.9	3964.0	4074.5	3973.5	3894.7	3812.6
71°	1142.7	1181.8	1267.7	1599.6	2207.6	3141.8	4021.3	4116.8	3982.2	3889.9	3665.4
72.5°	728.2	773.5	846.7	1141.1	1761.9	2790.0	3971.0	4088.8	3953.6	3831.8	3369.5
75°	287.3	297.6	351.7	528.5	955.7	1878.8	3506.4	3685.3	3632.0	3522.3	2700.9
77.5°	173.6	179.0	199.8	264.2	438.6	869.0	2560.9	2821.1	2915.0	2864.1	1859.0
80°	130.6	136.2	154.4	186.2	292.8	361.3	1352.8	1621.0	1852.7	1850.2	1043.3
82.5°	99.5	102.6	120.2	131.3	218.1	249.9	510.1	690.0	897.6	897.6	517.2
85°	92.3	92.3	97.8	88.4	144.8	179.0	303.2	331.8	351.0	372.4	301.7
87.5°	36.7	35.8	46.9	45.4	63.7	117.8	191.8	200.5	187.8	227.6	260.1
90°	24.7	25.4	19.9	19.9	35.0	108.2	175.1	183.9	172.7	205.4	267.3
92.5°	23.9	24.7	18.2	18.2	26.3	89.9	183.1	186.2	177.4	211.7	272.1
95°	21.5	22.3	15.1	15.1	20.8	54.8	170.3	175.1	152.1	171.0	218.1
97.5°	16.7	17.4	10.3	11.1	15.9	20.8	101.9	109.1	85.2	80.4	94.7
100°	11.1	11.9	6.4	7.9	9.5	9.5	38.9	42.2	38.2	20.8	11.9
102.5°	10.3	11.1	4.9	4.9	4.9	3.1	7.9	12.8	7.1	8.8	10.3
105°	9.5	11.1	3.1	2.3	1.5	1.5	2.3	3.1	4.0	5.6	11.1
107.5°	6.4	7.1	1.5	1.5	0.8	1.5	1.5	1.5	2.3	4.0	10.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	3.1	3.1	0.8	0.8	0.0	0.8	0.8	1.5	2.3	3.1	4.9
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5	2.3	4.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	2.3	4.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.3	4.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.3	4.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	4.0
125°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	4.0
127.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	3.1
130°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1
132.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
140°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
142.5°	1.5	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	1.5	1.5
145°	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	1.5	1.5	1.5
147.5°	2.3	2.3	0.8	0.0	0.0	0.0	0.8	0.8	1.5	1.5	2.3
150°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	1.5	1.5	2.3
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	2.3	2.3	2.3	2.3	1.5	0.8	0.8	0.8	0.8	0.8	0.8
5°	2.3	2.3	2.3	2.3	2.3	1.5	3.1	4.9	5.6	6.4	6.4
7.5°	3.1	3.1	3.1	3.1	3.1	6.4	39.7	88.4	101.1	108.2	105.8
10°	5.6	5.6	4.9	5.6	19.9	98.6	120.2	128.9	130.6	136.2	140.9
12.5°	117.8	101.1	47.7	27.0	101.9	128.1	138.5	145.6	153.6	191.0	171.0
15°	195.0	199.0	195.0	214.9	240.3	144.8	171.8	262.7	284.9	291.3	289.7
17.5°	230.8	226.1	226.1	275.3	284.9	283.3	273.8	292.8	298.4	307.9	304.7
20°	429.7	431.4	405.0	319.9	303.9	381.2	306.4	305.7	364.5	418.6	420.1
22.5°	479.1	483.1	470.4	474.2	397.9	393.9	384.4	403.5	426.5	436.8	433.7
25°	650.2	605.5	524.4	488.6	482.3	402.7	453.6	416.3	419.4	425.0	428.9
27.5°	787.9	782.2	729.8	596.0	482.3	488.6	436.8	429.7	477.4	482.3	483.1
30°	853.1	838.7	779.9	627.0	529.2	467.9	425.7	459.2	451.9	456.8	456.8
32.5°	1137.3	1130.8	1001.2	643.8	512.6	433.0	436.0	435.3	476.7	490.3	487.1
35°	1213.6	1201.7	1009.9	731.3	486.3	436.8	410.6	441.6	441.6	447.3	445.6
37.5°	1308.3	1288.3	1024.2	700.3	502.2	410.6	401.9	410.6	433.0	439.4	435.3
40°	1438.8	1393.5	1012.3	648.5	468.7	406.7	386.8	402.7	401.2	393.1	389.1
42.5°	1574.9	1520.8	1013.1	600.8	442.4	401.2	382.0	378.8	374.1	361.3	359.0
45°	1751.5	1644.9	1025.0	567.4	420.1	397.9	377.2	362.8	355.6	343.1	340.5
47.5°	1952.9	1777.8	1021.1	540.3	397.9	388.3	362.8	349.4	345.4	327.9	325.5
50°	2155.8	1906.7	1024.2	503.7	372.4	377.9	359.0	339.7	332.6	312.8	311.9
52.5°	2392.9	2041.3	1003.4	451.2	343.1	364.5	361.3	342.3	342.3	312.8	310.4
55°	2627.7	2206.0	986.0	395.6	323.1	353.4	366.1	359.0	357.3	316.7	314.3
57.5°	2859.3	2347.6	929.4	346.9	310.4	343.8	377.2	370.0	365.3	332.6	325.5
60°	3109.3	2533.0	822.8	308.7	303.2	335.8	380.4	379.7	352.6	349.4	345.4
62.5°	3297.0	2640.5	685.1	283.3	292.8	333.5	378.8	378.8	355.6	354.9	353.4
65°	3386.2	2654.0	518.1	263.5	282.4	329.5	373.2	388.3	370.0	372.4	369.3
67.5°	3340.7	2551.4	390.0	245.9	272.9	326.3	374.1	399.4	382.8	407.4	403.5
70°	3101.3	2287.2	320.8	234.0	269.9	320.8	385.2	402.7	391.5	431.4	426.5
71°	2926.9	2116.9	299.2	226.8	269.9	317.6	387.6	403.5	390.0	433.7	429.7
72.5°	2631.8	1816.8	276.1	216.4	268.1	315.9	387.6	402.7	394.7	444.0	436.8
75°	1983.2	1247.0	247.6	210.9	266.5	311.2	379.7	395.6	388.3	425.7	424.2
77.5°	1270.9	729.0	221.3	210.2	260.1	308.7	369.3	381.2	368.5	400.3	398.7
80°	699.5	418.6	196.5	196.5	247.6	303.2	353.4	355.6	343.1	367.6	357.3
82.5°	415.3	296.8	163.1	172.7	229.2	288.0	335.8	324.6	311.2	356.4	303.2
85°	280.1	230.8	112.2	132.9	206.2	249.9	299.2	281.7	258.6	260.1	248.3
87.5°	232.4	183.9	58.8	86.7	160.0	183.1	222.1	204.5	180.6	177.4	167.2
90°	230.8	179.0	46.9	78.1	128.1	141.7	171.8	155.1	141.7	147.2	139.2
92.5°	232.4	177.4	48.6	66.8	105.0	106.7	140.9	134.4	122.6	125.0	117.0
95°	186.2	139.2	46.9	53.3	59.6	56.6	86.7	86.7	74.7	70.8	66.0
97.5°	78.1	69.2	43.7	42.9	42.2	31.0	50.1	57.3	38.9	26.3	23.0
100°	11.9	19.9	36.7	40.7	29.5	18.2	31.8	36.7	20.8	4.0	3.1
102.5°	11.9	10.3	15.1	30.3	17.4	4.9	12.8	20.8	10.3	2.3	3.1
105°	12.8	10.3	6.4	15.9	4.0	1.5	0.8	5.6	1.5	2.3	2.3
107.5°	11.9	9.5	4.0	3.1	2.3	0.8	0.0	0.0	0.0	2.3	3.1



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.4	5.6	4.0	2.3	1.5	0.8	0.0	0.0	0.0	2.3	3.1
112.5°	4.0	4.9	3.1	2.3	0.8	0.8	0.0	0.0	0.0	3.1	4.0
115°	4.9	4.9	3.1	1.5	0.8	0.0	0.0	0.0	0.0	3.1	4.0
117.5°	4.9	4.9	3.1	1.5	0.8	0.0	0.0	0.0	0.0	3.1	4.0
120°	4.9	4.9	3.1	1.5	0.8	0.0	0.0	0.0	0.0	3.1	4.0
122.5°	4.9	4.9	3.1	1.5	0.8	0.0	0.0	0.0	0.0	2.3	3.1
125°	4.0	4.0	3.1	1.5	0.0	0.0	0.0	0.0	0.0	2.3	3.1
127.5°	4.0	4.0	2.3	1.5	0.0	0.0	0.0	0.0	0.0	1.5	2.3
130°	4.0	4.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.5
132.5°	3.1	3.1	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.3	2.3	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.3	2.3	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.5	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)