

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: P266217

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T3-CL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266217  
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-AF24-90-D-U-T3-CL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA 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: 7283.5 lumens  
Efficiency: N/A  
Efficacy: 77.5 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): 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

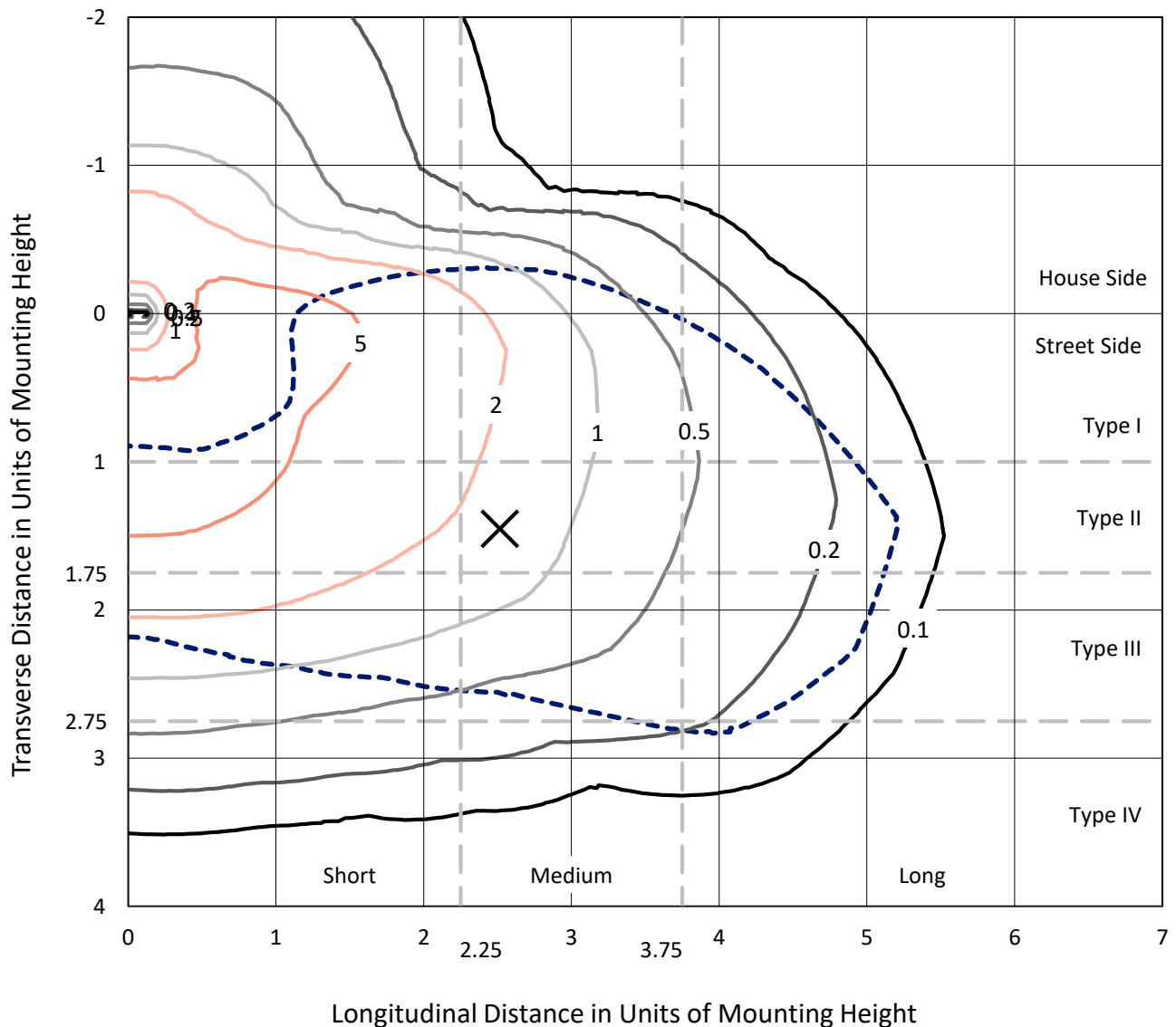


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

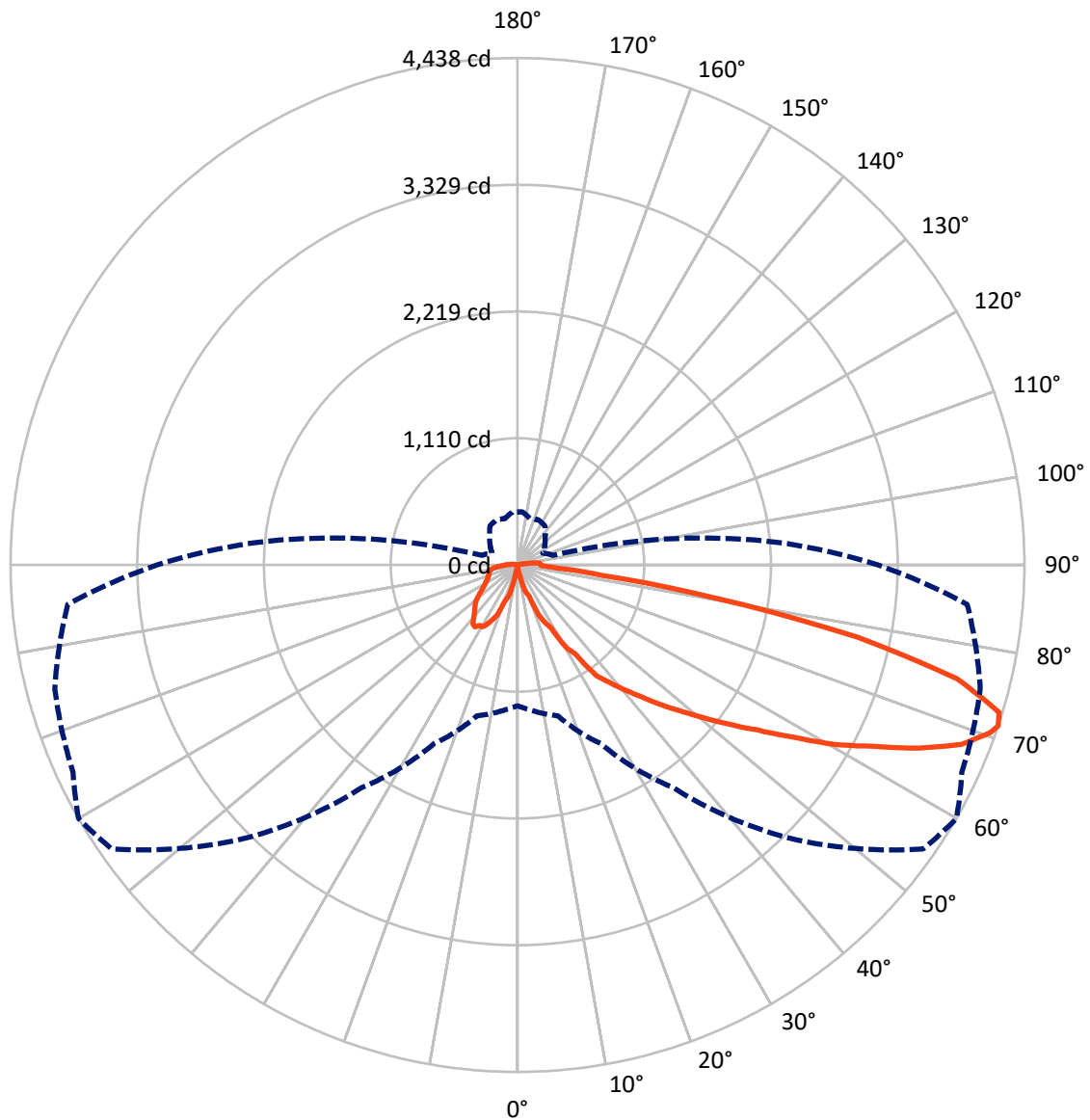


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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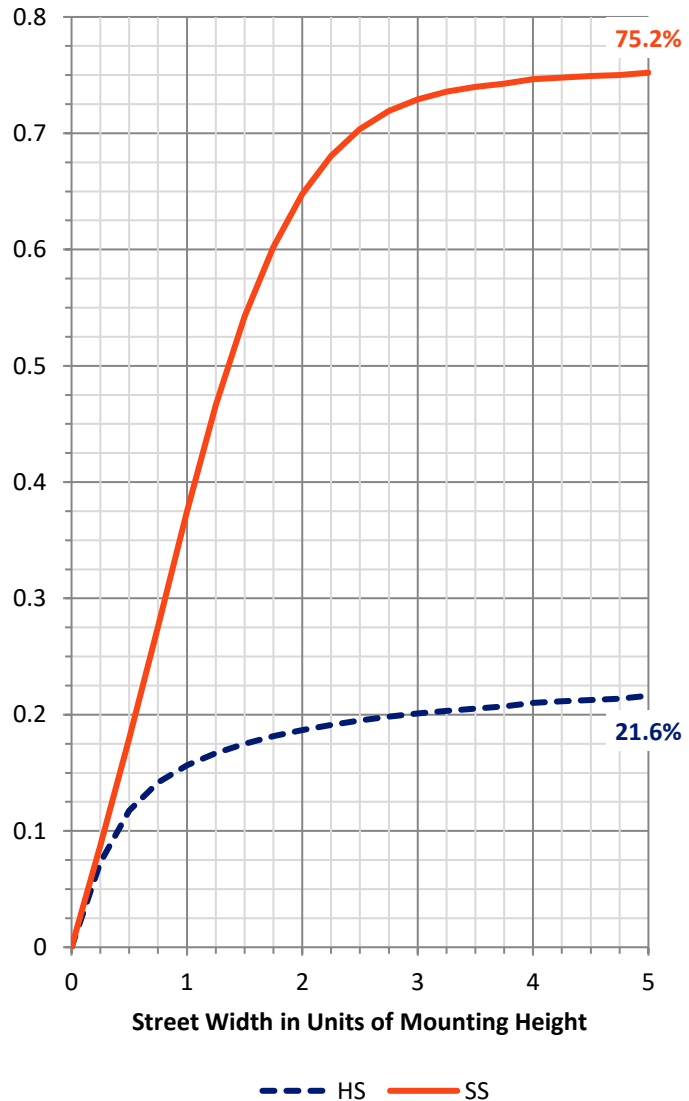
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1654.6	53.7	1708.3
	% Fixture	22.7	0.7	23.5
<b>Street Side</b>	Lumens	5522.9	52.3	5575.2
	% Fixture	75.8	0.7	76.5
<b>Total</b>	Lumens	7177.5	106.0	7283.5
	% Fixture	98.5	1.5	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	65.5	0.9
20°-30°	268.6	3.7
30°-40°	603.9	8.3
40°-50°	1048.3	14.4
50°-60°	1588.5	21.8
60°-70°	1957.6	26.9
70°-80°	1334.2	18.3
80°-90°	307.0	4.2
90°-100°	93.8	1.3
100°-110°	8.8	0.1
110°-120°	1.4	0.0
120°-130°	1.0	0.0
130°-140°	0.4	0.0
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7177.5	98.5
0°-180°	7283.5	100.0

**Coefficient of Utilization**



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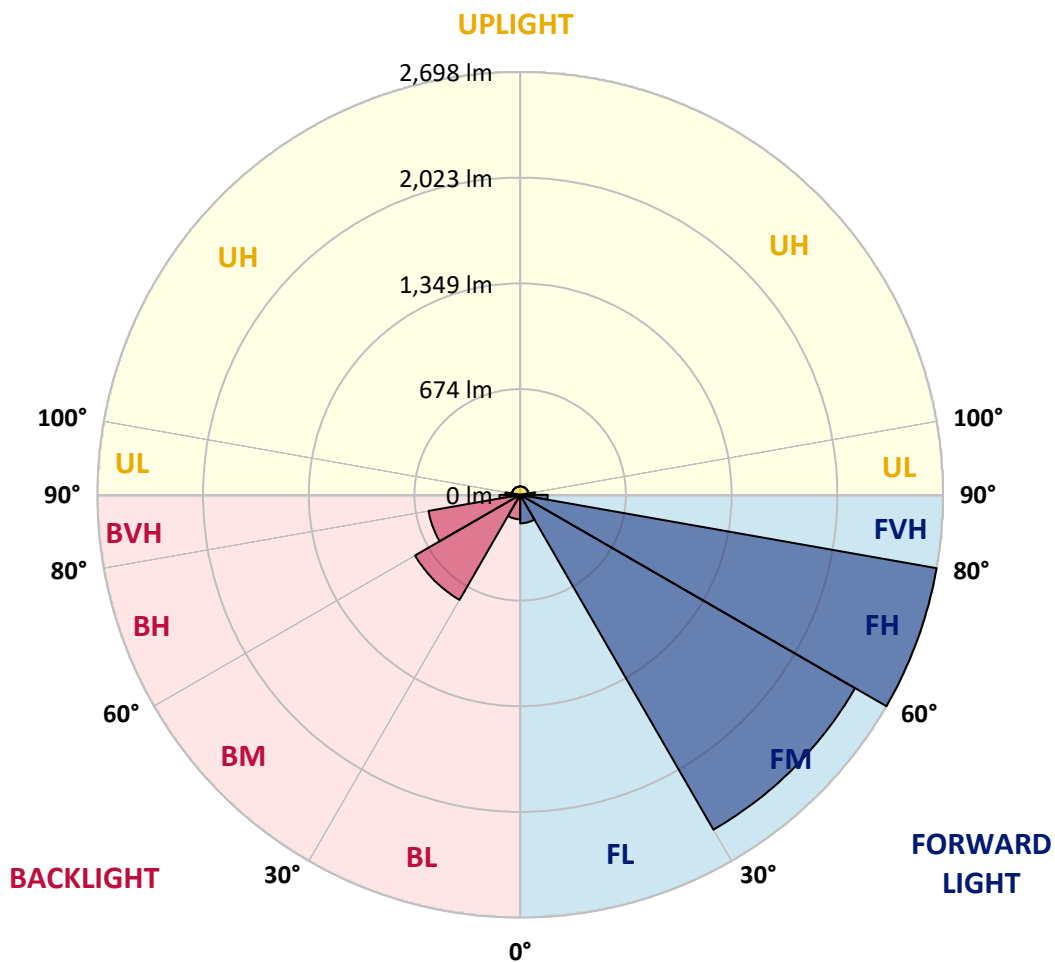
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T3-CL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.9	2.5			
FM	(30°-60°)	2467.0	33.9			
FH	(60°-80°)	2698.0	37.0			G2/5000
FVH	(80°-90°)	176.0	2.4			G2/225
BL	(0°-30°)	156.0	2.1	B1/500		
BM	(30°-60°)	773.8	10.6	B1/1000		
BH	(60°-80°)	593.8	8.2	B2/1000		G2/1000
BVH	(80°-90°)	131.0	1.8			G2/225
UL	(90°-100°)	93.8	1.3		U3/500	
UH	(100°-180°)	53.7	0.7		U3/500	

**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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	4.3	5.1	3.5	4.3	4.3	3.5	2.5	2.5	3.5	3.5	2.5
5°	78.2	79.0	82.4	84.9	29.1	20.7	7.7	5.1	4.3	3.5	3.5
7.5°	98.6	96.9	95.2	90.1	92.6	86.6	51.6	21.5	10.3	4.3	3.5
10°	114.2	114.2	106.4	100.4	99.5	97.8	92.6	84.9	40.3	8.5	6.0
12.5°	208.4	202.5	193.0	158.7	121.0	109.0	106.4	109.0	89.2	88.4	118.3
15°	238.5	240.2	235.0	222.2	215.4	139.0	182.7	227.5	228.2	182.7	205.9
17.5°	309.7	307.9	281.3	256.6	249.6	266.0	266.8	255.7	256.6	228.2	242.8
20°	460.7	465.1	442.8	375.0	303.7	350.9	340.6	296.0	302.0	430.6	444.4
22.5°	540.5	549.1	522.5	494.2	489.9	389.5	440.2	470.3	456.5	507.9	511.3
25°	802.2	779.1	678.7	580.8	593.7	519.1	569.7	554.3	530.3	568.0	657.2
27.5°	873.4	879.5	853.7	804.0	681.3	708.8	646.2	620.3	714.7	797.1	821.1
30°	1035.7	1035.7	943.8	925.0	870.8	791.9	845.1	837.4	853.7	866.5	911.2
32.5°	1257.8	1243.3	1202.1	1059.6	1000.4	906.1	974.8	927.5	955.8	1131.8	1206.3
35°	1487.0	1486.1	1345.3	1240.6	1119.6	1105.2	1072.4	1194.3	1227.9	1235.4	1309.3
37.5°	1778.6	1781.2	1704.9	1397.8	1273.3	1206.3	1292.1	1299.8	1339.4	1407.1	1430.3
40°	2008.6	1994.9	1897.1	1668.0	1465.5	1370.3	1444.8	1432.0	1499.8	1553.9	1587.3
42.5°	2296.1	2287.4	2152.8	1887.6	1731.5	1579.6	1600.2	1566.7	1615.6	1750.3	1764.1
45°	2566.3	2550.0	2425.7	2142.5	1978.5	1811.3	1766.6	1735.7	1746.9	1899.6	1951.9
47.5°	2747.3	2728.4	2681.4	2403.2	2274.6	2055.9	1964.0	1902.3	1915.9	2086.7	2173.3
50°	2973.8	2911.2	2869.1	2620.4	2528.5	2351.9	2157.0	2097.0	2127.8	2284.0	2418.7
52.5°	3094.8	3010.0	3010.8	2833.2	2746.5	2621.3	2372.5	2314.0	2355.3	2504.6	2700.1
55°	3003.9	2995.3	3070.0	2968.7	2919.9	2811.7	2604.9	2551.7	2619.5	2793.6	3010.0
57.5°	2874.3	2887.2	3040.9	3088.8	3088.8	3002.1	2863.2	2840.9	2913.8	3090.6	3307.6
60°	2725.8	2757.6	2954.2	3092.2	3194.4	3189.3	3142.0	3188.4	3209.9	3377.9	3670.6
62.5°	2508.0	2522.5	2752.4	3032.1	3199.6	3363.4	3435.5	3494.6	3576.2	3714.3	3981.2
65°	2258.2	2276.2	2506.2	2871.0	3171.1	3477.5	3722.8	3866.1	3891.1	4001.8	4205.1
67.5°	1935.7	1955.4	2156.2	2568.1	3059.6	3570.1	4015.5	4190.6	4148.5	4133.0	4258.2
70°	1499.8	1498.9	1640.6	2018.9	2652.1	3534.1	4273.7	4393.0	4284.0	4199.0	4110.7
71°	1232.0	1274.2	1366.9	1724.6	2380.1	3387.4	4335.5	4438.4	4293.4	4193.9	3952.1
72.5°	785.1	833.9	912.9	1230.4	1899.6	3008.2	4281.4	4408.4	4262.5	4131.3	3632.8
75°	309.7	321.0	379.3	569.7	1030.4	2025.8	3780.3	3973.5	3915.9	3797.6	2912.0
77.5°	187.0	193.0	215.4	284.9	472.8	936.9	2761.1	3041.7	3142.9	3088.0	2004.3
80°	140.8	146.8	166.5	200.9	315.8	389.5	1458.6	1747.7	1997.4	1994.9	1124.9
82.5°	107.3	110.8	129.5	141.6	235.0	269.4	550.0	743.8	967.8	967.8	557.7
85°	99.5	99.5	105.6	95.2	156.1	193.0	327.0	357.7	378.4	401.5	325.1
87.5°	39.4	38.5	50.7	48.9	68.6	127.0	206.8	216.2	202.5	245.3	280.6
90°	26.6	27.5	21.5	21.5	37.8	116.7	188.7	198.2	186.2	221.3	288.3
92.5°	25.7	26.6	19.8	19.8	28.2	96.9	197.4	200.9	191.2	228.2	293.4
95°	23.1	24.1	16.3	16.3	22.3	59.2	183.7	188.7	163.9	184.5	235.0
97.5°	18.1	18.9	11.1	11.9	17.2	22.3	109.9	117.6	91.7	86.6	102.0
100°	11.9	12.8	6.8	8.5	10.3	10.3	42.0	45.5	41.2	22.3	12.8
102.5°	11.1	11.9	5.1	5.1	5.1	3.5	8.5	13.7	7.7	9.4	11.1
105°	10.3	11.9	3.5	2.5	1.6	1.6	2.5	3.5	4.3	6.0	11.9
107.5°	6.8	7.7	1.6	1.6	0.9	1.6	1.6	1.6	2.5	4.3	11.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	3.5	3.5	0.9	0.9	0.0	0.9	0.9	1.6	2.5	3.5	5.1
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	1.6	2.5	4.3
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.6	2.5	4.3
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	2.5	4.3
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	2.5	4.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.5	4.3
125°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	4.3
127.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	3.5
130°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.5
132.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.6
140°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.6
142.5°	1.6	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	1.6	1.6
145°	1.6	1.6	0.9	0.9	0.0	0.0	0.9	0.9	1.6	1.6	1.6
147.5°	2.5	2.5	0.9	0.0	0.0	0.0	0.9	0.9	1.6	1.6	2.5
150°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.9	1.6	1.6	2.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	1.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	2.5	2.5	2.5	2.5	1.6	0.9	0.9	0.9	0.9	0.9	0.9
5°	2.5	2.5	2.5	2.5	2.5	1.6	3.5	5.1	6.0	6.8	6.8
7.5°	3.5	3.5	3.5	3.5	3.5	6.8	42.8	95.2	109.0	116.7	114.2
10°	6.0	6.0	5.1	6.0	21.5	106.4	129.5	139.0	140.8	146.8	151.9
12.5°	127.0	109.0	51.6	29.1	109.9	138.1	149.3	157.1	165.6	205.9	184.5
15°	210.3	214.4	210.3	231.7	259.2	156.1	185.3	283.1	307.2	314.0	312.3
17.5°	248.8	243.7	243.7	296.9	307.2	305.5	295.2	315.8	321.8	332.1	328.6
20°	463.3	465.1	436.8	344.9	327.7	411.0	330.3	329.5	393.0	451.3	453.0
22.5°	516.5	520.7	507.2	511.3	429.0	424.7	414.4	435.0	459.9	471.0	467.6
25°	700.9	653.0	565.5	526.9	519.9	434.2	489.0	448.8	452.1	458.1	462.4
27.5°	849.4	843.4	786.7	642.6	519.9	526.9	471.0	463.3	514.8	519.9	520.7
30°	919.8	904.4	840.9	676.2	570.6	504.5	459.0	495.1	487.3	492.5	492.5
32.5°	1226.0	1219.2	1079.4	694.1	552.5	466.8	470.3	469.4	513.9	528.6	525.1
35°	1308.6	1295.5	1088.8	788.5	524.3	471.0	442.8	476.2	476.2	482.2	480.6
37.5°	1410.6	1389.0	1104.2	755.0	541.4	442.8	433.3	442.8	466.8	473.6	469.4
40°	1551.4	1502.3	1091.4	699.3	505.3	438.5	417.1	434.2	432.4	423.9	419.6
42.5°	1697.9	1639.6	1092.2	647.8	477.1	432.4	411.9	408.4	403.2	389.5	387.0
45°	1888.4	1773.6	1105.2	611.7	453.0	429.0	406.8	391.2	383.5	369.8	367.2
47.5°	2105.5	1916.9	1100.9	582.6	429.0	418.7	391.2	376.7	372.3	353.6	350.9
50°	2324.4	2055.9	1104.2	543.1	401.5	407.6	387.0	366.4	358.7	337.3	336.3
52.5°	2580.0	2200.8	1082.0	486.5	369.8	393.0	389.5	368.9	368.9	337.3	334.6
55°	2833.2	2378.4	1063.1	426.4	348.4	380.9	394.6	387.0	385.3	341.4	338.9
57.5°	3082.9	2531.2	1002.1	374.1	334.6	370.7	406.8	398.9	393.8	358.7	350.9
60°	3352.2	2731.0	887.2	332.9	327.0	362.0	410.2	409.3	380.2	376.7	372.3
62.5°	3554.8	2846.9	738.8	305.5	315.8	359.5	408.4	408.4	383.5	382.7	380.9
65°	3650.8	2861.6	558.6	284.0	304.5	355.2	402.4	418.7	398.9	401.5	398.0
67.5°	3601.9	2750.8	420.4	265.1	294.3	351.7	403.2	430.6	412.7	439.4	435.0
70°	3343.6	2465.8	345.8	252.2	291.0	345.8	415.2	434.2	422.2	465.1	459.9
71°	3155.7	2282.4	322.6	244.5	291.0	342.3	417.8	435.0	420.4	467.6	463.3
72.5°	2837.4	1958.8	297.7	233.4	289.2	340.6	417.8	434.2	425.5	478.7	471.0
75°	2138.1	1344.6	266.8	227.5	287.5	335.4	409.3	426.4	418.7	459.0	457.2
77.5°	1370.3	785.9	238.5	226.6	280.6	332.9	398.0	411.0	397.3	431.5	429.8
80°	754.1	451.3	211.9	211.9	266.8	327.0	380.9	383.5	369.8	396.4	385.3
82.5°	447.9	320.1	175.9	186.2	247.2	310.6	362.0	350.1	335.4	384.4	327.0
85°	302.0	248.8	121.0	143.3	222.2	269.4	322.6	303.7	278.8	280.6	267.6
87.5°	250.5	198.2	63.5	93.6	172.5	197.4	239.4	220.5	194.8	191.2	180.2
90°	248.8	193.0	50.7	84.1	138.1	152.7	185.3	167.4	152.7	158.7	150.1
92.5°	250.5	191.2	52.3	72.0	113.2	115.0	151.9	144.9	132.1	134.7	126.1
95°	200.9	150.1	50.7	57.5	64.4	60.9	93.6	93.6	80.7	76.4	71.2
97.5°	84.1	74.6	47.3	46.4	45.5	33.4	54.1	61.8	42.0	28.2	25.0
100°	12.8	21.5	39.4	43.7	31.7	19.8	34.3	39.4	22.3	4.3	3.5
102.5°	12.8	11.1	16.3	32.6	18.9	5.1	13.7	22.3	11.1	2.5	3.5
105°	13.7	11.1	6.8	17.2	4.3	1.6	0.9	6.0	1.6	2.5	2.5
107.5°	12.8	10.3	4.3	3.5	2.5	0.9	0.0	0.0	0.0	2.5	3.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.8	6.0	4.3	2.5	1.6	0.9	0.0	0.0	0.0	2.5	3.5
112.5°	4.3	5.1	3.5	2.5	0.9	0.9	0.0	0.0	0.0	3.5	4.3
115°	5.1	5.1	3.5	1.6	0.9	0.0	0.0	0.0	0.0	3.5	4.3
117.5°	5.1	5.1	3.5	1.6	0.9	0.0	0.0	0.0	0.0	3.5	4.3
120°	5.1	5.1	3.5	1.6	0.9	0.0	0.0	0.0	0.0	3.5	4.3
122.5°	5.1	5.1	3.5	1.6	0.9	0.0	0.0	0.0	0.0	2.5	3.5
125°	4.3	4.3	3.5	1.6	0.0	0.0	0.0	0.0	0.0	2.5	3.5
127.5°	4.3	4.3	2.5	1.6	0.0	0.0	0.0	0.0	0.0	1.6	2.5
130°	4.3	4.3	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.9	1.6
132.5°	3.5	3.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.5	2.5	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.5	2.5	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.0	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)