

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: P266159

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T3-CL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266159  
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-AF24-70-D-U-T3-CL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 930mA 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: 6180.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 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): 74  
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

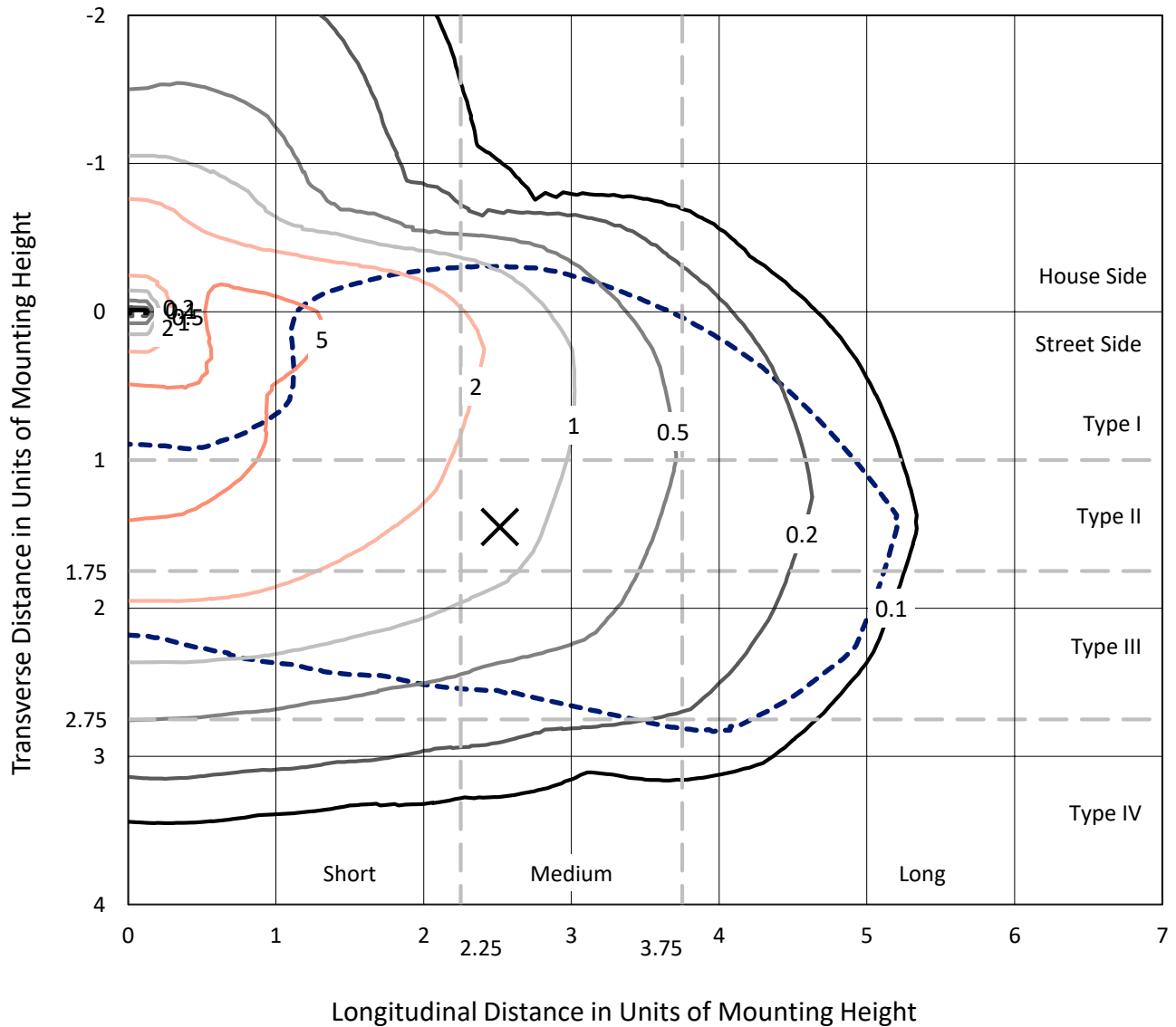


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

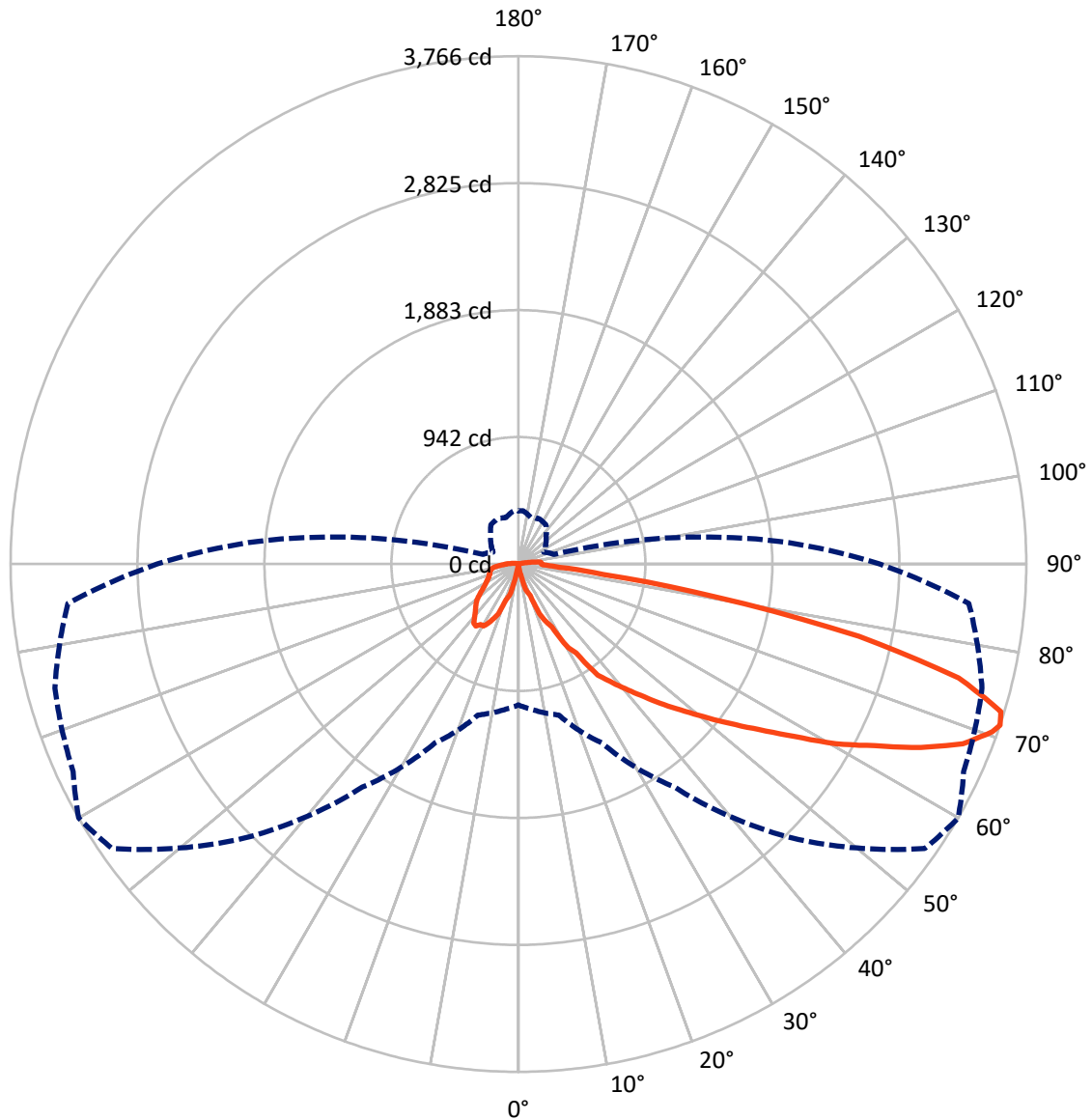


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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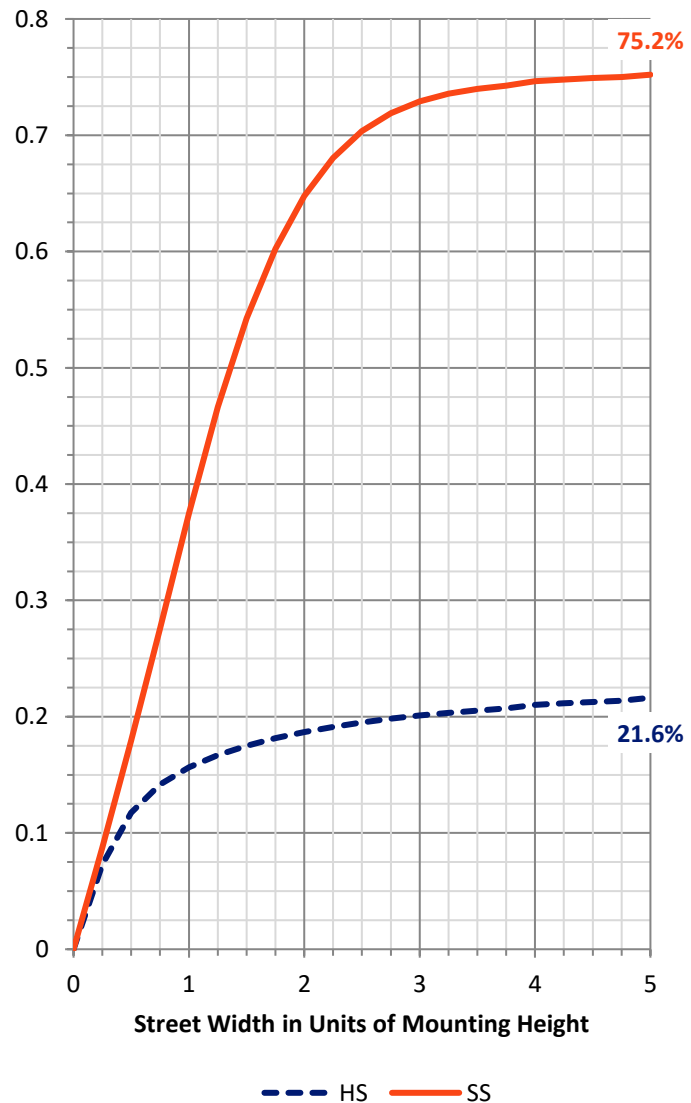
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1404.0	45.6	1449.6
	% Fixture	22.7	0.7	23.5
<b>Street Side</b>	Lumens	4686.4	44.4	4730.8
	% Fixture	75.8	0.7	76.5
<b>Total</b>	Lumens	6090.4	90.0	6180.4
	% Fixture	98.5	1.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	55.5	0.9
20°-30°	227.9	3.7
30°-40°	512.4	8.3
40°-50°	889.6	14.4
50°-60°	1347.9	21.8
60°-70°	1661.1	26.9
70°-80°	1132.1	18.3
80°-90°	260.5	4.2
90°-100°	79.6	1.3
100°-110°	7.5	0.1
110°-120°	1.2	0.0
120°-130°	0.8	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°	6090.4	98.5
0°-180°	6180.4	100.0



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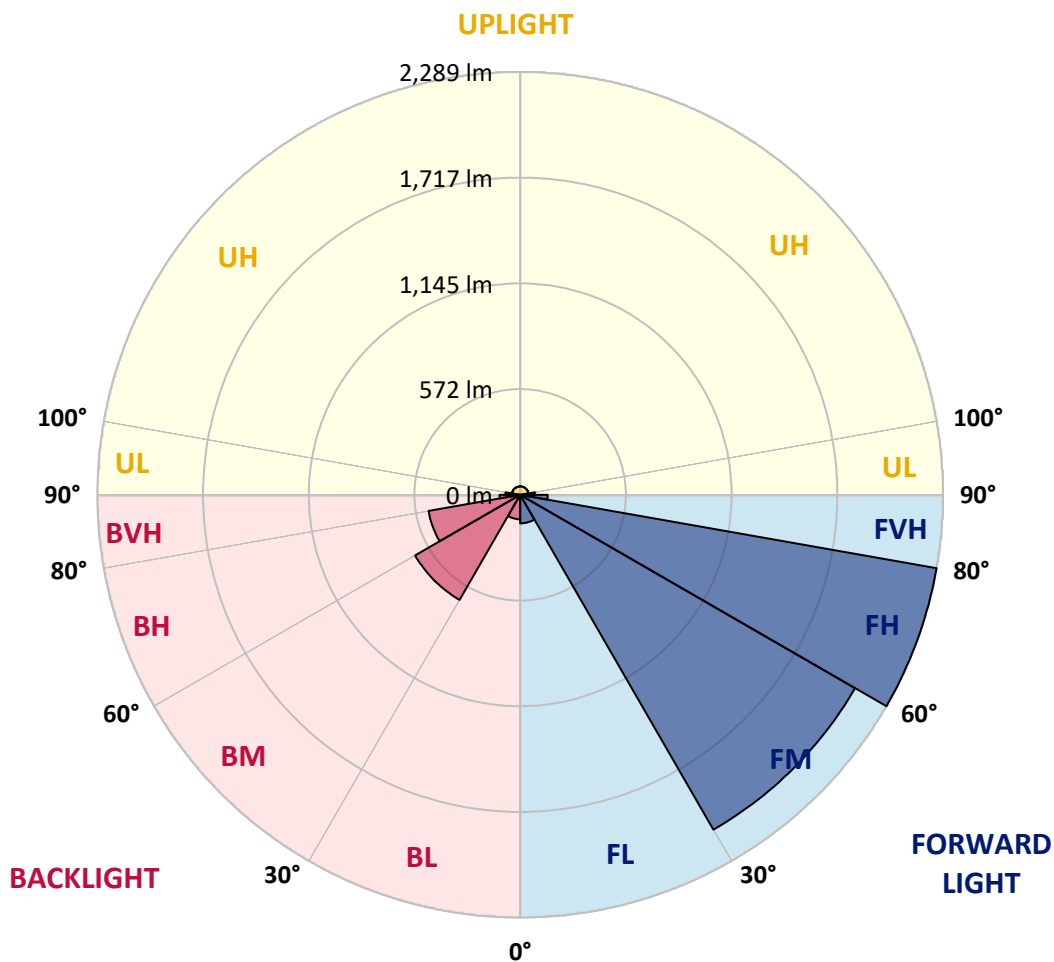
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-CL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.4	2.5			
FM	(30°-60°)	2093.3	33.9			
FH	(60°-80°)	2289.3	37.0			G2/5000
FVH	(80°-90°)	149.4	2.4			G2/225
BL	(0°-30°)	132.4	2.1	B1/500		
BM	(30°-60°)	656.6	10.6	B1/1000		
BH	(60°-80°)	503.9	8.2	B2/1000		G2/1000
BVH	(80°-90°)	111.2	1.8			G2/225
UL	(90°-100°)	79.6	1.3		U3/500	
UH	(100°-180°)	45.6	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°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
2.5°	3.7	4.4	3.0	3.7	3.7	3.0	2.2	2.2	3.0	3.0	2.2
5°	66.3	67.0	69.9	72.0	24.8	17.4	6.6	4.4	3.7	3.0	3.0
7.5°	83.7	82.3	80.8	76.4	78.6	73.5	43.7	18.1	8.8	3.7	3.0
10°	96.8	96.8	90.3	85.2	84.4	83.1	78.6	72.0	34.2	7.2	5.1
12.5°	177.0	171.8	163.9	134.7	102.6	92.4	90.3	92.4	75.6	75.0	100.5
15°	202.4	203.8	199.6	188.6	182.7	117.9	155.0	193.0	193.7	155.0	174.7
17.5°	262.8	261.3	238.8	217.7	211.9	225.7	226.5	217.0	217.7	193.7	206.0
20°	390.9	394.6	375.8	318.2	257.8	297.8	289.1	251.2	256.2	365.5	377.1
22.5°	458.7	466.0	443.5	419.4	415.7	330.5	373.4	398.9	387.3	430.9	433.9
25°	680.7	661.1	576.0	492.9	503.8	440.4	483.4	470.4	450.0	482.0	557.7
27.5°	741.1	746.2	724.5	682.3	578.1	601.3	548.2	526.3	606.4	676.3	696.7
30°	878.7	878.7	800.8	784.8	738.9	672.0	717.1	710.6	724.5	735.4	773.3
32.5°	1067.4	1055.0	1019.9	899.2	848.9	768.8	827.1	787.0	811.1	960.3	1023.7
35°	1261.7	1261.0	1141.6	1052.8	950.0	937.7	910.1	1013.5	1041.9	1048.4	1111.1
37.5°	1509.2	1511.5	1446.6	1186.0	1080.4	1023.7	1096.4	1102.9	1136.4	1193.9	1213.7
40°	1704.4	1692.8	1609.8	1415.3	1243.6	1162.6	1226.0	1215.0	1272.5	1318.5	1346.9
42.5°	1948.2	1941.0	1826.8	1601.7	1469.2	1340.4	1357.8	1329.4	1371.0	1485.3	1496.8
45°	2177.6	2163.7	2058.1	1818.0	1678.9	1536.9	1499.0	1472.9	1482.4	1611.9	1656.4
47.5°	2331.2	2315.2	2275.1	2039.3	1930.1	1744.4	1666.5	1614.1	1625.8	1770.6	1844.2
50°	2523.3	2470.2	2434.5	2223.5	2145.6	1995.6	1830.3	1779.4	1805.6	1938.1	2052.4
52.5°	2626.0	2554.1	2554.7	2404.0	2330.6	2224.3	2013.1	1963.5	1998.5	2125.2	2291.1
55°	2548.9	2541.7	2604.9	2519.0	2477.5	2385.8	2210.4	2165.3	2222.8	2370.5	2554.1
57.5°	2439.0	2449.9	2580.2	2621.0	2621.0	2547.5	2429.6	2410.6	2472.4	2622.4	2806.7
60°	2313.0	2339.9	2506.7	2623.9	2710.5	2706.1	2666.1	2705.4	2723.7	2866.3	3114.7
62.5°	2128.2	2140.5	2335.7	2572.9	2714.9	2853.9	2915.1	2965.3	3034.6	3151.8	3378.2
65°	1916.3	1931.5	2126.6	2436.1	2691.0	2950.8	3159.0	3280.6	3301.7	3395.7	3568.2
67.5°	1642.6	1659.2	1829.6	2179.1	2596.2	3029.4	3407.4	3555.9	3520.2	3507.1	3613.3
70°	1272.5	1271.9	1392.1	1713.1	2250.4	2998.8	3626.5	3727.6	3635.3	3563.0	3488.1
71°	1045.4	1081.2	1159.8	1463.3	2019.6	2874.3	3678.9	3766.2	3643.2	3558.7	3353.5
72.5°	666.2	707.7	774.7	1044.0	1611.9	2552.5	3632.9	3740.7	3616.9	3505.5	3082.5
75°	262.8	272.2	321.9	483.4	874.4	1718.9	3207.8	3371.6	3322.8	3222.4	2471.0
77.5°	158.7	163.9	182.7	241.7	401.2	795.0	2342.9	2580.9	2666.9	2620.3	1700.8
80°	119.5	124.4	141.3	170.4	268.0	330.5	1237.7	1483.0	1694.9	1692.8	954.4
82.5°	91.0	94.0	110.0	120.2	199.6	228.6	466.7	631.1	821.2	821.2	473.2
85°	84.4	84.4	89.6	80.8	132.5	163.9	277.3	303.5	321.1	340.7	275.9
87.5°	33.4	32.8	42.9	41.5	58.2	107.7	175.4	183.4	171.8	208.2	238.1
90°	22.5	23.3	18.1	18.1	32.0	99.1	160.2	168.3	158.0	187.8	244.6
92.5°	21.9	22.5	16.8	16.8	24.1	82.3	167.4	170.4	162.4	193.7	249.0
95°	19.7	20.4	13.8	13.8	19.0	50.2	155.8	160.2	139.1	156.6	199.6
97.5°	15.4	16.0	9.4	10.2	14.6	19.0	93.2	99.7	78.0	73.5	86.6
100°	10.2	10.9	5.7	7.2	8.8	8.8	35.7	38.5	34.9	19.0	10.9
102.5°	9.4	10.2	4.4	4.4	4.4	3.0	7.2	11.7	6.6	8.1	9.4
105°	8.8	10.2	3.0	2.2	1.4	1.4	2.2	3.0	3.7	5.1	10.2
107.5°	5.7	6.6	1.4	1.4	0.7	1.4	1.4	1.4	2.2	3.7	9.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	3.0	3.0	0.7	0.7	0.0	0.7	0.7	1.4	2.2	3.0	4.4
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4	2.2	3.7
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	2.2	3.7
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.2	3.7
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.2	3.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	3.7
125°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	3.7
127.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	3.0
130°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0
132.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
140°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
142.5°	1.4	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	1.4	1.4
145°	1.4	1.4	0.7	0.7	0.0	0.0	0.7	0.7	1.4	1.4	1.4
147.5°	2.2	2.2	0.7	0.0	0.0	0.0	0.7	0.7	1.4	1.4	2.2
150°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.7	1.4	1.4	2.2
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
2.5°	2.2	2.2	2.2	2.2	1.4	0.7	0.7	0.7	0.7	0.7	0.7
5°	2.2	2.2	2.2	2.2	2.2	1.4	3.0	4.4	5.1	5.7	5.7
7.5°	3.0	3.0	3.0	3.0	3.0	5.7	36.4	80.8	92.4	99.1	96.8
10°	5.1	5.1	4.4	5.1	18.1	90.3	110.0	117.9	119.5	124.4	128.8
12.5°	107.7	92.4	43.7	24.8	93.2	117.1	126.8	133.2	140.6	174.7	156.6
15°	178.4	181.9	178.4	196.5	219.8	132.5	157.3	240.2	260.7	266.4	265.0
17.5°	211.1	206.8	206.8	252.0	260.7	259.3	250.4	268.0	273.1	281.8	278.8
20°	393.2	394.6	370.6	292.7	278.1	348.7	280.4	279.6	333.5	382.9	384.5
22.5°	438.4	442.0	430.3	433.9	364.1	360.4	351.6	369.2	390.3	399.7	396.8
25°	594.8	554.1	479.8	447.0	441.2	368.3	414.9	380.8	383.7	388.7	392.4
27.5°	720.8	715.7	667.6	545.4	441.2	447.0	399.7	393.2	436.8	441.2	442.0
30°	780.4	767.3	713.6	573.7	484.1	428.1	389.5	420.0	413.5	417.9	417.9
32.5°	1040.3	1034.6	915.9	589.0	468.8	396.1	398.9	398.3	436.0	448.4	445.6
35°	1110.2	1099.3	923.8	669.1	444.8	399.7	375.8	404.1	404.1	409.2	407.7
37.5°	1196.9	1178.8	937.0	640.8	459.5	375.8	367.6	375.8	396.1	401.9	398.3
40°	1316.3	1274.9	926.2	593.4	428.9	372.1	353.8	368.3	367.0	359.6	356.0
42.5°	1440.8	1391.4	926.8	549.8	404.7	367.0	349.5	346.6	342.2	330.5	328.3
45°	1602.4	1504.9	937.7	519.1	384.5	364.1	345.0	332.1	325.5	313.8	311.6
47.5°	1786.6	1626.6	934.1	494.3	364.1	355.3	332.1	319.5	315.9	299.9	297.8
50°	1972.3	1744.4	937.0	460.9	340.7	345.8	328.3	310.9	304.3	286.1	285.4
52.5°	2189.3	1867.4	918.1	412.9	313.8	333.5	330.5	313.1	313.1	286.1	284.0
55°	2404.0	2018.1	902.1	361.8	295.6	323.3	334.9	328.3	327.0	289.8	287.5
57.5°	2616.0	2147.8	850.3	317.5	284.0	314.5	345.0	338.5	334.2	304.3	297.8
60°	2844.6	2317.4	752.8	282.4	277.3	307.2	348.1	347.3	322.5	319.5	315.9
62.5°	3016.2	2415.7	626.8	259.3	268.0	305.1	346.6	346.6	325.5	324.6	323.3
65°	3097.9	2428.1	473.9	240.9	258.4	301.4	341.4	355.3	338.5	340.7	337.9
67.5°	3056.4	2334.2	356.7	224.9	249.6	298.4	342.2	365.5	350.2	372.7	369.2
70°	2837.2	2092.4	293.3	214.1	246.9	293.3	352.3	368.3	358.2	394.6	390.3
71°	2677.8	1936.7	273.8	207.5	246.9	290.5	354.7	369.2	356.7	396.8	393.2
72.5°	2407.6	1662.1	252.7	198.0	245.3	289.1	354.7	368.3	361.1	406.3	399.7
75°	1814.2	1140.8	226.5	193.0	243.9	284.7	347.3	361.8	355.3	389.5	388.1
77.5°	1162.6	666.9	202.4	192.1	238.1	282.4	337.9	348.7	337.0	366.1	364.7
80°	640.0	382.9	179.8	179.8	226.5	277.3	323.3	325.5	313.8	336.3	327.0
82.5°	380.1	271.6	149.3	158.0	209.7	263.6	307.2	297.1	284.7	326.2	277.3
85°	256.2	211.1	102.6	121.6	188.6	228.6	273.8	257.8	236.7	238.1	227.1
87.5°	212.5	168.3	53.9	79.4	146.3	167.4	203.1	187.0	165.3	162.4	152.9
90°	211.1	163.9	42.9	71.3	117.1	129.5	157.3	141.9	129.5	134.7	127.4
92.5°	212.5	162.4	44.3	61.2	96.1	97.6	128.8	123.1	112.1	114.4	107.0
95°	170.4	127.4	42.9	48.8	54.5	51.7	79.4	79.4	68.5	64.8	60.5
97.5°	71.3	63.3	40.1	39.3	38.5	28.3	45.9	52.5	35.7	24.1	21.1
100°	10.9	18.1	33.4	37.1	26.9	16.8	29.1	33.4	19.0	3.7	3.0
102.5°	10.9	9.4	13.8	27.7	16.0	4.4	11.7	19.0	9.4	2.2	3.0
105°	11.7	9.4	5.7	14.6	3.7	1.4	0.7	5.1	1.4	2.2	2.2
107.5°	10.9	8.8	3.7	3.0	2.2	0.7	0.0	0.0	0.0	2.2	3.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.7	5.1	3.7	2.2	1.4	0.7	0.0	0.0	0.0	2.2	3.0
112.5°	3.7	4.4	3.0	2.2	0.7	0.7	0.0	0.0	0.0	3.0	3.7
115°	4.4	4.4	3.0	1.4	0.7	0.0	0.0	0.0	0.0	3.0	3.7
117.5°	4.4	4.4	3.0	1.4	0.7	0.0	0.0	0.0	0.0	3.0	3.7
120°	4.4	4.4	3.0	1.4	0.7	0.0	0.0	0.0	0.0	3.0	3.7
122.5°	4.4	4.4	3.0	1.4	0.7	0.0	0.0	0.0	0.0	2.2	3.0
125°	3.7	3.7	3.0	1.4	0.0	0.0	0.0	0.0	0.0	2.2	3.0
127.5°	3.7	3.7	2.2	1.4	0.0	0.0	0.0	0.0	0.0	1.4	2.2
130°	3.7	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.7	1.4
132.5°	3.0	3.0	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.2	2.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.2	2.2	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	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)