

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: P413736

Luminaire Tested: **LXF.LXT-PA1-100-727-U-T2R-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-100-727-U-T2R-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7714 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G3

Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

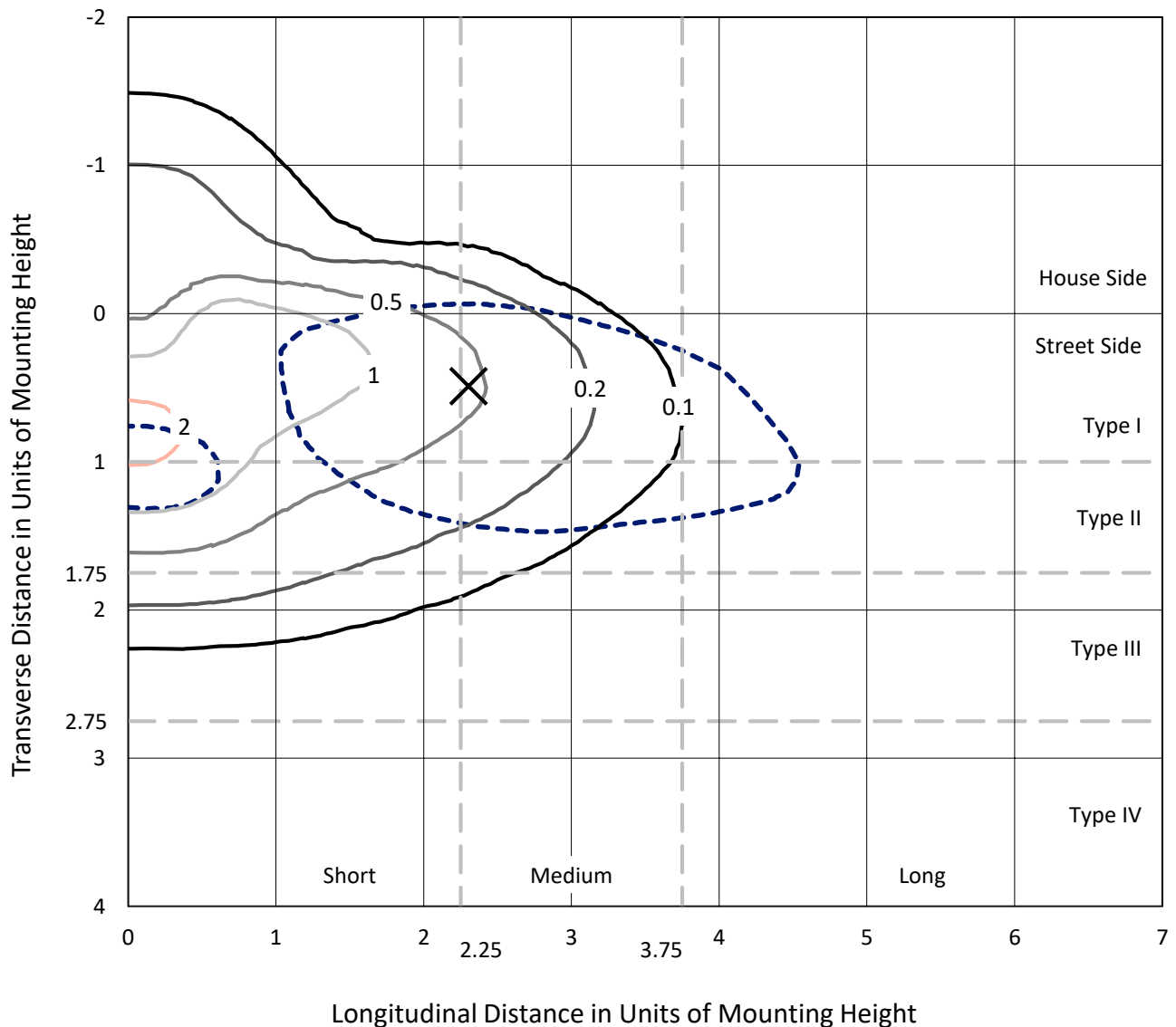


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

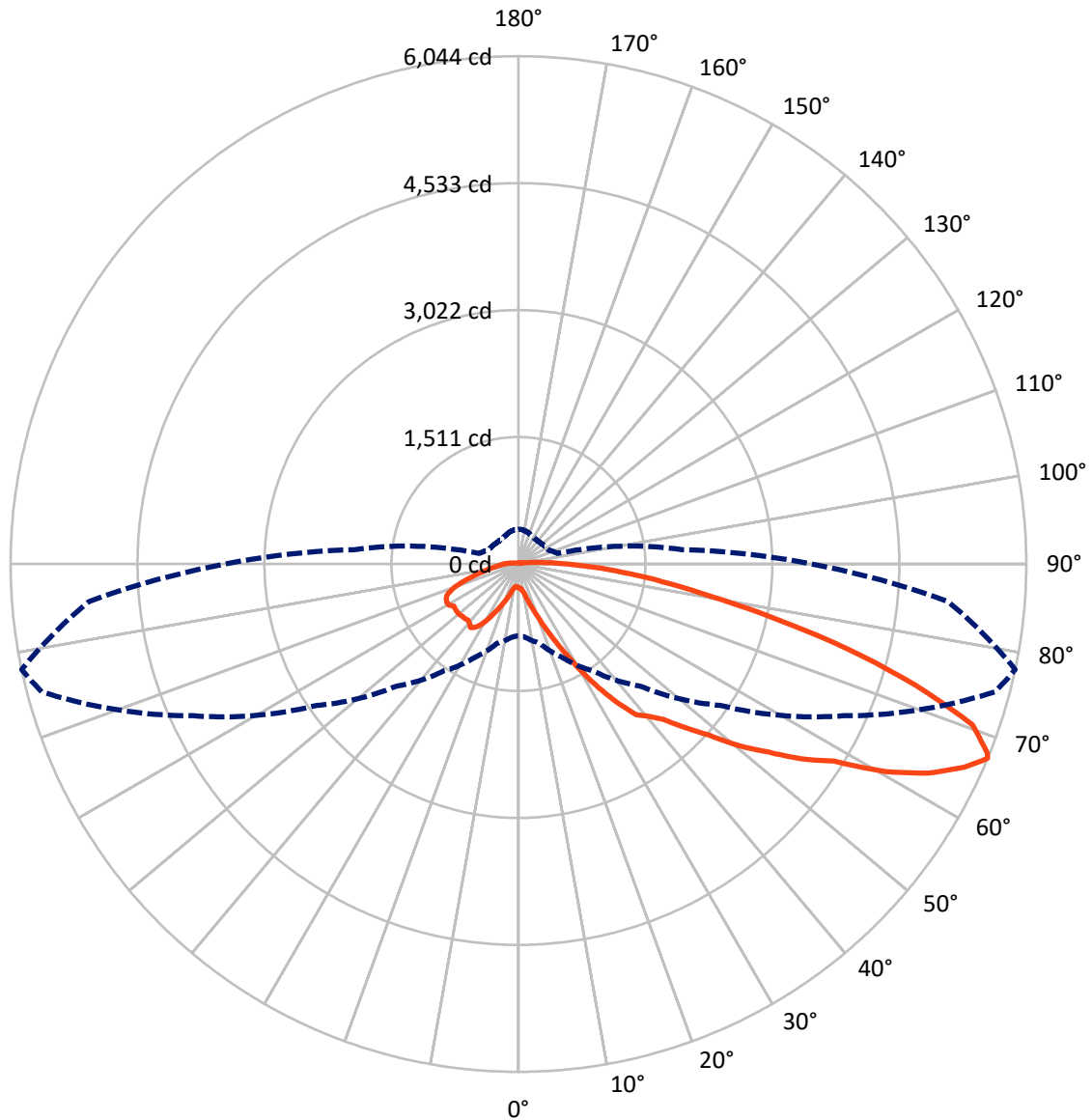


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1427.1	116.7	1543.8
	% Fixture	18.5	1.5	20.0
<b>Street Side</b>	Lumens	6045.9	124.3	6170.2
	% Fixture	78.4	1.6	80.0
<b>Total</b>	Lumens	7472.9	241.1	7714.0
	% Fixture	96.9	3.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	0.4
10°-20°	120.0	1.6
20°-30°	359.9	4.7
30°-40°	823.9	10.7
40°-50°	1315.9	17.1
50°-60°	1621.8	21.0
60°-70°	1690.4	21.9
70°-80°	1096.0	14.2
80°-90°	416.7	5.4
90°-100°	128.7	1.7
100°-110°	49.5	0.6
110°-120°	26.7	0.3
120°-130°	17.7	0.2
130°-140°	11.6	0.2
140°-150°	5.2	0.1
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7472.9	96.9
0°-180°	7714.0	100.0



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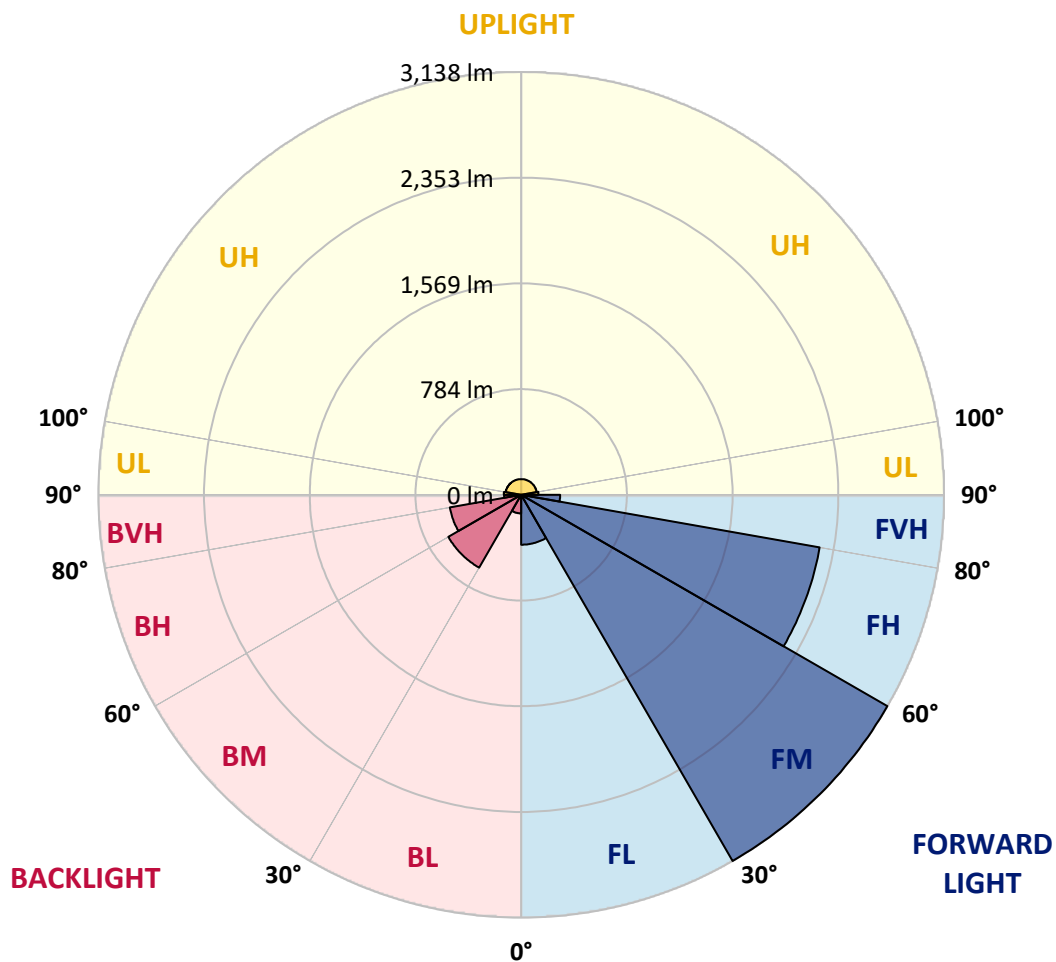
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.4	4.8			
FM	(30°-60°)	3137.7	40.7			
FH	(60°-80°)	2248.8	29.2			G2/5000
FVH	(80°-90°)	289.0	3.7			G3/500
BL	(0°-30°)	137.9	1.8	B1/500		
BM	(30°-60°)	623.9	8.1	B1/1000		
BH	(60°-80°)	537.6	7.0	B2/1000		G2/1000
BVH	(80°-90°)	127.6	1.7			G2/225
UL	(90°-100°)	128.7	1.7		U3/500	
UH	(100°-180°)	116.7	1.5		U3/500	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2
2.5°	317.7	316.8	315.9	314.1	310.4	306.8	301.3	294.0	288.5	287.6	282.1
5°	357.9	355.2	355.2	350.6	343.3	336.0	325.1	312.3	302.2	296.7	288.5
7.5°	407.2	401.7	403.6	396.3	386.2	373.4	356.1	338.7	319.6	314.1	302.2
10°	466.6	462.9	459.3	450.1	438.3	418.2	401.7	376.2	350.6	343.3	325.1
12.5°	538.7	539.6	528.7	518.6	498.5	478.4	458.4	433.7	405.4	397.2	373.4
15°	640.1	639.1	627.3	604.4	579.8	557.9	541.4	515.0	487.6	478.4	442.8
17.5°	758.8	756.0	746.9	706.7	682.1	664.7	641.0	624.5	585.3	575.2	531.4
20°	932.2	915.8	894.8	840.9	804.4	782.5	763.3	742.3	700.3	683.0	630.9
22.5°	1124.9	1133.1	1094.8	1011.7	950.5	910.3	890.2	879.3	847.3	835.5	756.9
25°	1364.1	1364.1	1303.9	1212.6	1133.1	1058.2	1053.7	1066.5	1023.5	1015.3	932.2
27.5°	1616.1	1626.2	1546.7	1449.0	1328.5	1240.9	1236.3	1247.2	1243.6	1219.9	1101.2
30°	1903.7	1894.6	1805.1	1686.4	1526.6	1423.5	1410.7	1490.1	1496.5	1480.1	1350.4
32.5°	2238.8	2231.5	2119.2	1935.7	1738.5	1619.8	1628.0	1740.3	1784.1	1755.8	1604.3
35°	2646.1	2655.2	2479.0	2220.6	1960.4	1823.4	1832.5	1973.1	2055.3	2020.6	1849.9
37.5°	3064.2	3067.0	2905.4	2555.7	2198.7	2004.2	2026.1	2197.7	2303.7	2275.4	2040.7
40°	3329.0	3356.4	3201.2	2868.9	2449.8	2185.0	2203.2	2373.1	2435.1	2382.2	2106.4
42.5°	3561.0	3582.0	3424.0	3067.0	2640.6	2346.6	2340.2	2468.9	2558.4	2525.5	2241.6
45°	3675.1	3716.2	3573.7	3204.9	2774.8	2472.6	2423.3	2615.9	2815.0	2773.9	2460.7
47.5°	3592.0	3642.2	3582.0	3277.0	2835.1	2552.0	2563.0	2827.8	3085.2	3039.6	2699.9
50°	3320.8	3381.1	3401.2	3223.1	2850.6	2591.3	2708.2	3064.2	3409.4	3400.3	2993.9
52.5°	2993.9	3025.9	3113.6	3060.6	2793.1	2636.9	2865.2	3293.4	3743.6	3715.3	3237.7
55°	2691.7	2733.7	2805.9	2774.8	2650.6	2642.4	2989.4	3549.1	4098.8	4095.1	3544.5
57.5°	2275.4	2333.8	2485.4	2502.7	2466.2	2608.6	3079.8	3750.0	4412.8	4425.6	3852.2
60°	1746.7	1796.0	2026.1	2209.6	2241.6	2529.2	3125.4	3970.9	4949.7	5016.4	4390.0
62.5°	1416.2	1425.3	1599.7	1828.9	2046.2	2384.0	3132.7	4250.3	5419.0	5479.3	4712.3
65°	1060.1	1058.2	1218.9	1480.1	1782.3	2214.2	3109.9	4338.0	5673.8	5828.1	5020.0
67°	851.9	872.0	975.2	1223.5	1554.0	2055.3	2932.8	4273.1	5873.8	6043.6	5132.3
67.5°	819.0	829.1	923.1	1157.8	1502.0	2007.8	2880.7	4256.7	5872.8	6017.1	5098.6
70°	653.8	667.5	735.9	891.2	1201.6	1696.5	2514.6	3875.1	5525.0	5735.0	4789.0
72.5°	504.9	515.9	564.3	682.1	914.9	1365.9	2080.0	3334.5	4784.5	4950.6	4060.4
75°	384.4	388.1	433.7	514.1	698.5	1041.8	1606.1	2626.0	3934.4	4060.4	3299.8
77.5°	297.7	305.9	340.6	394.4	518.6	784.3	1208.9	2045.3	3130.0	3110.8	2509.1
80°	231.9	239.2	264.8	302.2	389.0	576.1	884.8	1512.0	2286.3	2309.1	1837.1
82.5°	186.3	191.7	209.1	236.5	299.5	438.3	646.5	1130.4	1738.5	1730.3	1346.8
85°	148.8	152.5	165.3	189.0	231.0	332.4	477.5	840.0	1227.2	1237.2	919.5
87.5°	116.0	120.5	135.1	149.7	182.6	252.9	352.4	582.5	816.3	824.5	631.8
90°	90.4	93.1	105.9	121.4	147.9	191.7	254.7	399.0	525.9	515.9	406.3
92.5°	66.7	69.4	81.3	95.9	115.0	147.9	183.5	255.7	307.7	314.1	253.8
95°	47.5	50.2	60.3	71.2	87.7	112.3	130.6	162.5	189.0	183.5	162.5
97.5°	36.5	37.4	44.7	53.0	66.7	86.7	96.8	112.3	124.2	121.4	113.2
100°	29.2	30.1	35.6	40.2	52.0	68.5	77.6	85.8	93.1	90.4	86.7
102.5°	24.7	25.6	29.2	32.9	42.9	57.5	63.0	68.5	71.2	71.2	69.4
105°	21.0	21.9	24.7	28.3	36.5	47.5	51.1	53.9	56.6	55.7	55.7
107.5°	19.2	19.2	21.9	24.7	32.0	40.2	42.0	42.9	43.8	43.8	45.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	17.3	18.3	20.1	21.9	28.3	35.6	35.6	34.7	34.7	34.7	37.4
112.5°	16.4	17.3	18.3	21.0	26.5	31.0	30.1	28.3	28.3	29.2	32.0
115°	16.4	16.4	17.3	20.1	24.7	28.3	26.5	23.7	23.7	24.7	27.4
117.5°	16.4	16.4	18.3	20.1	23.7	25.6	23.7	21.0	20.1	21.0	23.7
120°	17.3	17.3	18.3	20.1	21.9	23.7	21.9	19.2	18.3	19.2	21.9
122.5°	18.3	18.3	18.3	20.1	21.0	21.9	20.1	17.3	16.4	17.3	20.1
125°	19.2	19.2	19.2	20.1	21.0	20.1	18.3	16.4	16.4	16.4	19.2
127.5°	21.0	21.0	21.0	21.0	20.1	19.2	17.3	15.5	16.4	16.4	18.3
130°	22.8	22.8	21.9	21.0	20.1	18.3	16.4	14.6	15.5	16.4	18.3
132.5°	23.7	22.8	21.9	20.1	19.2	16.4	14.6	13.7	14.6	15.5	17.3
135°	21.9	21.9	20.1	18.3	17.3	14.6	12.8	12.8	13.7	14.6	15.5
137.5°	19.2	19.2	18.3	16.4	15.5	13.7	11.9	11.0	12.8	13.7	14.6
140°	16.4	16.4	15.5	13.7	12.8	11.9	10.0	9.1	11.0	11.9	12.8
142.5°	13.7	13.7	12.8	11.0	11.0	10.0	8.2	8.2	10.0	10.0	11.0
145°	11.0	11.0	11.0	9.1	9.1	8.2	6.4	7.3	8.2	9.1	9.1
147.5°	9.1	9.1	9.1	7.3	7.3	6.4	4.6	5.5	6.4	7.3	7.3
150°	7.3	7.3	7.3	6.4	5.5	4.6	3.7	4.6	4.6	5.5	5.5
152.5°	5.5	5.5	5.5	4.6	4.6	2.7	2.7	3.7	3.7	4.6	4.6
155°	3.7	3.7	4.6	3.7	2.7	1.8	2.7	2.7	3.7	3.7	3.7
157.5°	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
160°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2
2.5°	279.4	277.6	273.0	268.4	263.9	260.2	255.7	254.7	254.7	252.9	252.9
5°	283.1	277.6	266.6	257.5	247.4	239.2	232.8	230.1	227.4	225.5	223.7
7.5°	291.3	282.1	263.9	249.3	234.7	221.9	212.7	208.2	205.4	202.7	203.6
10°	310.4	296.7	270.3	246.5	224.6	207.3	196.3	190.8	189.0	186.3	186.3
12.5°	351.5	333.3	294.9	254.7	221.0	197.2	184.4	182.6	184.4	187.2	187.2
15°	416.4	389.0	333.3	277.6	229.2	195.4	188.1	193.6	200.0	203.6	203.6
17.5°	495.8	458.4	378.9	304.1	241.0	211.8	202.7	210.0	218.2	223.7	223.7
20°	583.4	533.2	425.5	326.9	258.4	234.7	224.6	231.0	242.0	250.2	249.3
22.5°	697.6	624.5	479.4	347.0	279.4	255.7	249.3	257.5	273.9	284.9	285.8
25°	839.1	738.7	542.4	373.4	298.6	273.9	275.7	290.4	312.3	324.1	324.1
27.5°	989.8	862.8	596.2	399.9	318.7	293.1	302.2	322.3	346.1	359.7	361.6
30°	1188.8	1022.6	663.8	426.4	336.0	312.3	323.2	347.0	364.3	372.5	373.4
32.5°	1391.5	1174.2	717.7	453.8	352.4	326.0	336.0	358.8	374.4	383.5	382.6
35°	1575.0	1296.6	749.6	466.6	367.1	336.0	340.6	365.2	374.4	379.8	378.9
37.5°	1715.7	1384.2	761.5	469.3	372.5	340.6	342.4	363.4	376.2	386.2	384.4
40°	1739.4	1372.3	716.8	452.9	371.6	340.6	344.2	368.0	381.7	386.2	385.3
42.5°	1827.0	1405.2	678.4	423.7	360.7	339.7	347.9	369.8	376.2	373.4	370.7
45°	1979.5	1474.6	667.5	409.1	347.0	336.9	349.7	365.2	364.3	358.8	357.0
47.5°	2130.2	1541.3	643.7	402.7	343.3	336.0	348.8	359.7	362.5	357.0	355.2
50°	2321.9	1629.8	624.5	393.5	344.2	336.0	347.0	359.7	361.6	352.4	351.5
52.5°	2493.6	1691.0	596.2	385.3	345.1	338.7	347.0	359.7	360.7	351.5	349.7
55°	2672.5	1755.8	567.0	377.1	347.9	341.5	349.7	360.7	361.6	355.2	353.4
57.5°	2851.5	1812.4	534.1	370.7	350.6	347.0	351.5	361.6	368.9	367.1	367.1
60°	3216.7	1975.0	528.7	371.6	353.4	351.5	353.4	366.1	379.8	375.3	376.2
62.5°	3361.0	2009.7	518.6	383.5	361.6	355.2	356.1	369.8	384.4	390.8	389.9
65°	3492.5	2012.4	498.5	391.7	371.6	357.9	357.9	370.7	395.4	410.0	410.0
67°	3485.2	1957.6	483.9	392.6	376.2	360.7	357.0	370.7	396.3	412.7	413.6
67.5°	3443.2	1922.0	478.4	392.6	377.1	360.7	356.1	369.8	396.3	413.6	413.6
70°	3190.3	1734.8	442.8	382.6	374.4	356.1	350.6	360.7	390.8	414.5	414.5
72.5°	2642.4	1428.0	392.6	357.9	357.0	344.2	336.0	347.0	376.2	400.8	399.9
75°	2135.7	1141.3	342.4	321.4	330.5	321.4	315.0	323.2	351.5	376.2	374.4
77.5°	1596.0	857.4	295.8	286.7	299.5	293.1	287.6	295.8	323.2	347.0	343.3
80°	1179.7	661.1	257.5	253.8	263.0	261.1	259.3	263.0	286.7	302.2	299.5
82.5°	868.3	503.1	221.9	219.1	230.1	230.1	230.1	232.8	250.2	255.7	252.9
85°	617.2	378.9	195.4	188.1	197.2	201.8	204.5	205.4	214.6	215.5	209.1
87.5°	434.6	298.6	175.3	159.8	164.4	174.4	179.0	178.0	181.7	179.0	172.6
90°	303.1	234.7	158.9	136.0	136.0	146.1	153.4	152.5	153.4	146.1	139.7
92.5°	213.7	177.1	134.2	112.3	110.5	120.5	126.9	126.0	126.0	118.7	112.3
95°	143.4	130.6	106.8	90.4	87.7	95.9	102.3	100.4	100.4	93.1	90.4
97.5°	105.9	99.5	87.7	76.7	71.2	75.8	80.3	80.3	81.3	76.7	74.0
100°	83.1	80.3	74.9	65.7	60.3	61.2	63.9	63.9	67.6	63.9	62.1
102.5°	69.4	67.6	63.0	56.6	52.0	51.1	53.0	53.9	58.4	55.7	54.8
105°	57.5	56.6	53.9	48.4	44.7	44.7	44.7	45.7	50.2	48.4	48.4
107.5°	46.6	46.6	46.6	42.0	39.3	39.3	38.3	39.3	42.9	42.9	42.9



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	39.3	39.3	40.2	36.5	34.7	34.7	33.8	34.7	38.3	39.3	39.3
112.5°	33.8	33.8	34.7	32.9	31.0	31.0	30.1	30.1	33.8	36.5	36.5
115°	29.2	30.1	30.1	29.2	28.3	27.4	26.5	27.4	31.0	33.8	33.8
117.5°	25.6	26.5	27.4	26.5	25.6	24.7	23.7	24.7	28.3	32.0	32.0
120°	22.8	23.7	24.7	24.7	23.7	22.8	21.0	22.8	25.6	29.2	30.1
122.5°	21.0	21.9	21.9	21.9	21.9	20.1	19.2	20.1	22.8	26.5	27.4
125°	20.1	20.1	21.0	21.0	20.1	18.3	17.3	18.3	20.1	22.8	23.7
127.5°	19.2	19.2	20.1	20.1	18.3	16.4	15.5	16.4	18.3	20.1	20.1
130°	19.2	19.2	19.2	18.3	17.3	15.5	13.7	14.6	16.4	18.3	18.3
132.5°	18.3	17.3	17.3	17.3	15.5	13.7	12.8	12.8	14.6	16.4	16.4
135°	16.4	16.4	15.5	15.5	14.6	11.9	11.0	11.0	12.8	14.6	14.6
137.5°	14.6	14.6	13.7	13.7	12.8	11.0	9.1	10.0	11.9	11.9	12.8
140°	12.8	12.8	11.9	11.9	11.0	9.1	7.3	8.2	10.0	10.0	11.0
142.5°	11.0	11.0	11.0	10.0	9.1	7.3	6.4	7.3	9.1	9.1	9.1
145°	9.1	9.1	9.1	8.2	7.3	5.5	4.6	6.4	8.2	7.3	7.3
147.5°	7.3	7.3	7.3	7.3	5.5	4.6	3.7	5.5	6.4	6.4	6.4
150°	5.5	5.5	5.5	5.5	4.6	2.7	2.7	4.6	5.5	5.5	5.5
152.5°	4.6	4.6	4.6	5.5	4.6	1.8	1.8	3.7	4.6	4.6	4.6
155°	3.7	3.7	4.6	4.6	3.7	1.8	0.9	2.7	3.7	3.7	3.7
157.5°	2.7	2.7	3.7	3.7	2.7	1.8	0.9	1.8	3.7	2.7	2.7
160°	1.8	2.7	2.7	2.7	2.7	1.8	0.0	1.8	2.7	1.8	1.8
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)