

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: P266211

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-CL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)  
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-T2U-CL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7298.2 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-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



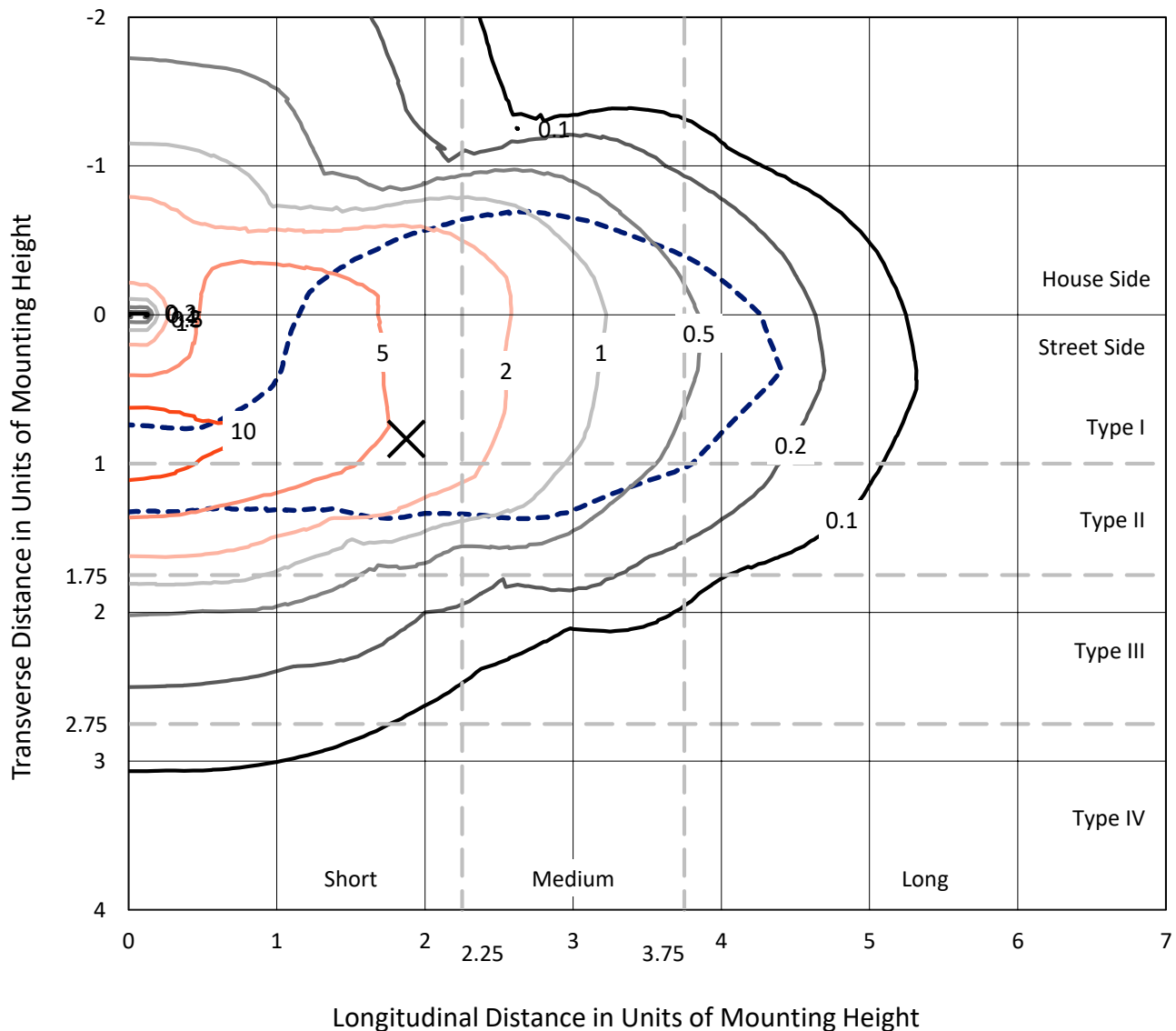


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

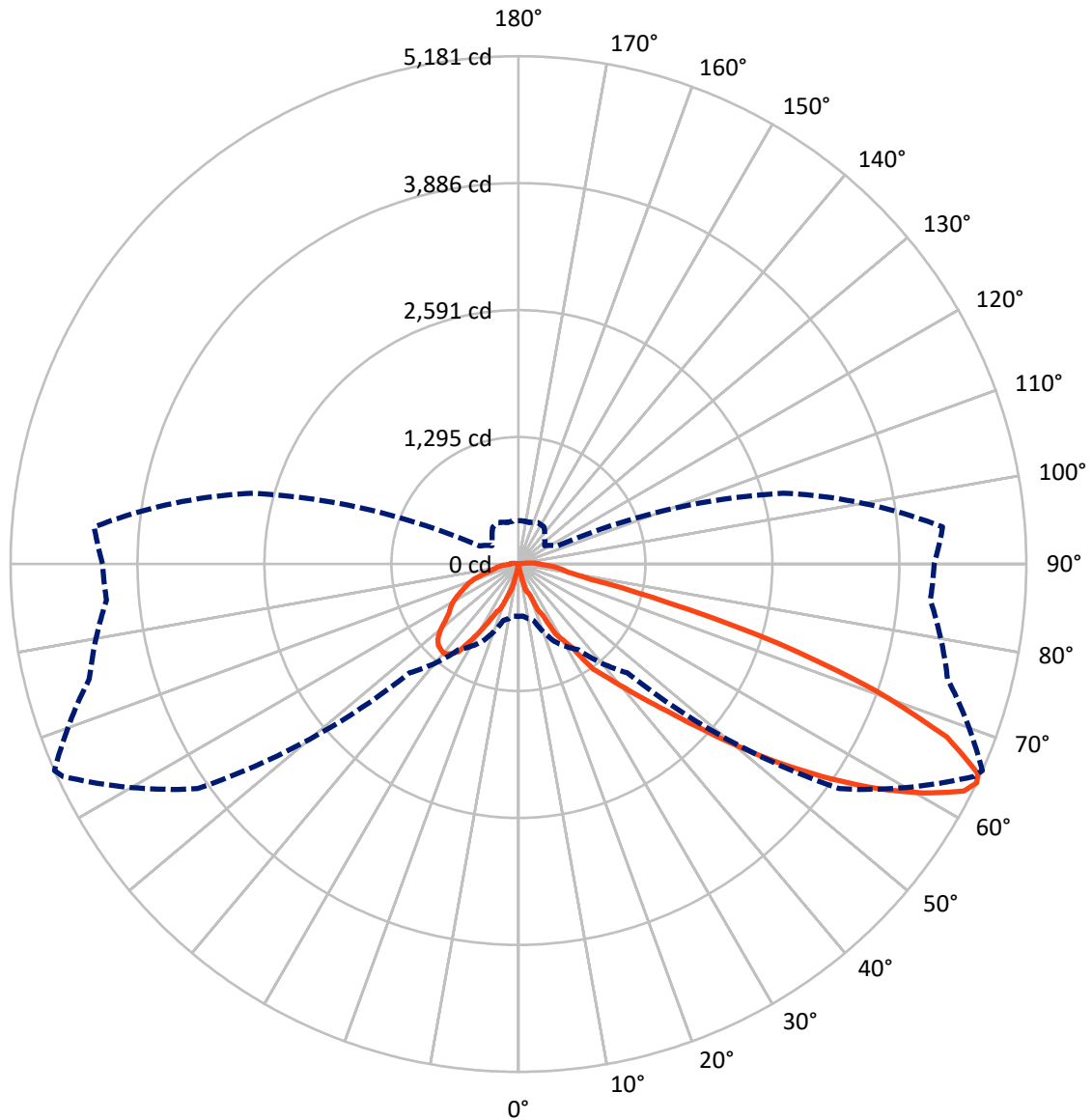


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - Horizontal Cone Through 64-Deg Vertical

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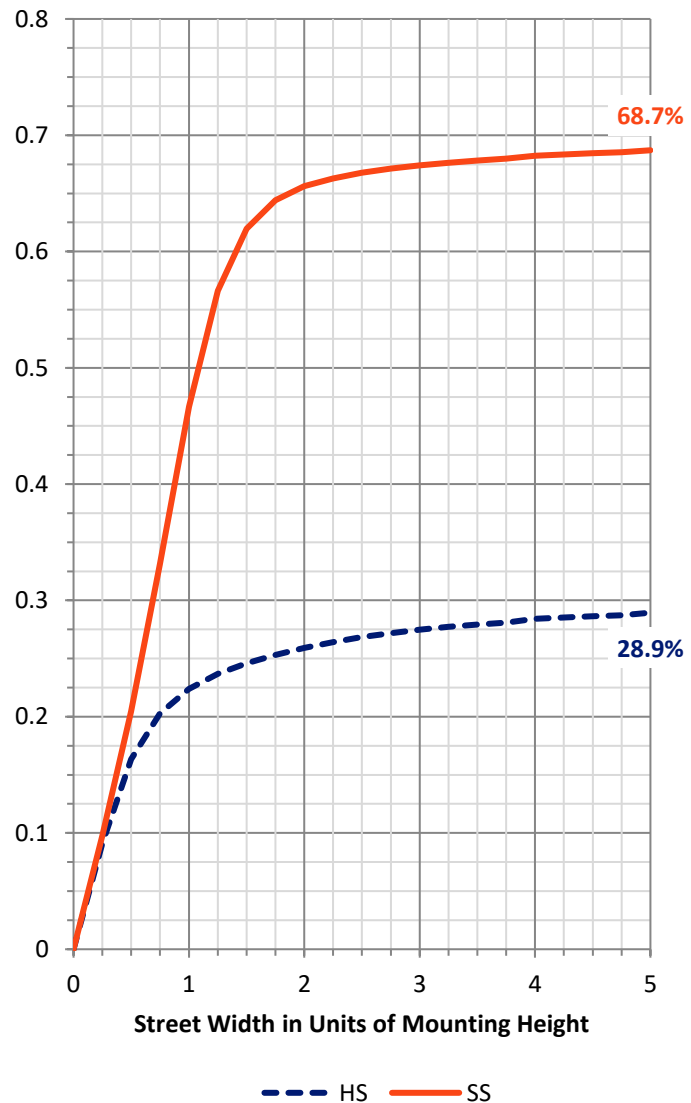
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2159.8	44.6	2204.4
	% Fixture	29.6	0.6	30.2
<b>Street Side</b>	Lumens	5053.3	40.6	5093.8
	% Fixture	69.2	0.6	69.8
<b>Total</b>	Lumens	7213.0	85.2	7298.2
	% Fixture	98.8	1.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	70.8	1.0
20°-30°	285.2	3.9
30°-40°	722.0	9.9
40°-50°	1376.6	18.9
50°-60°	1846.6	25.3
60°-70°	1709.9	23.4
70°-80°	961.7	13.2
80°-90°	235.4	3.2
90°-100°	71.8	1.0
100°-110°	8.5	0.1
110°-120°	2.3	0.0
120°-130°	1.4	0.0
130°-140°	0.5	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7213.0	98.8
0°-180°	7298.2	100.0

**Coefficient of Utilization**



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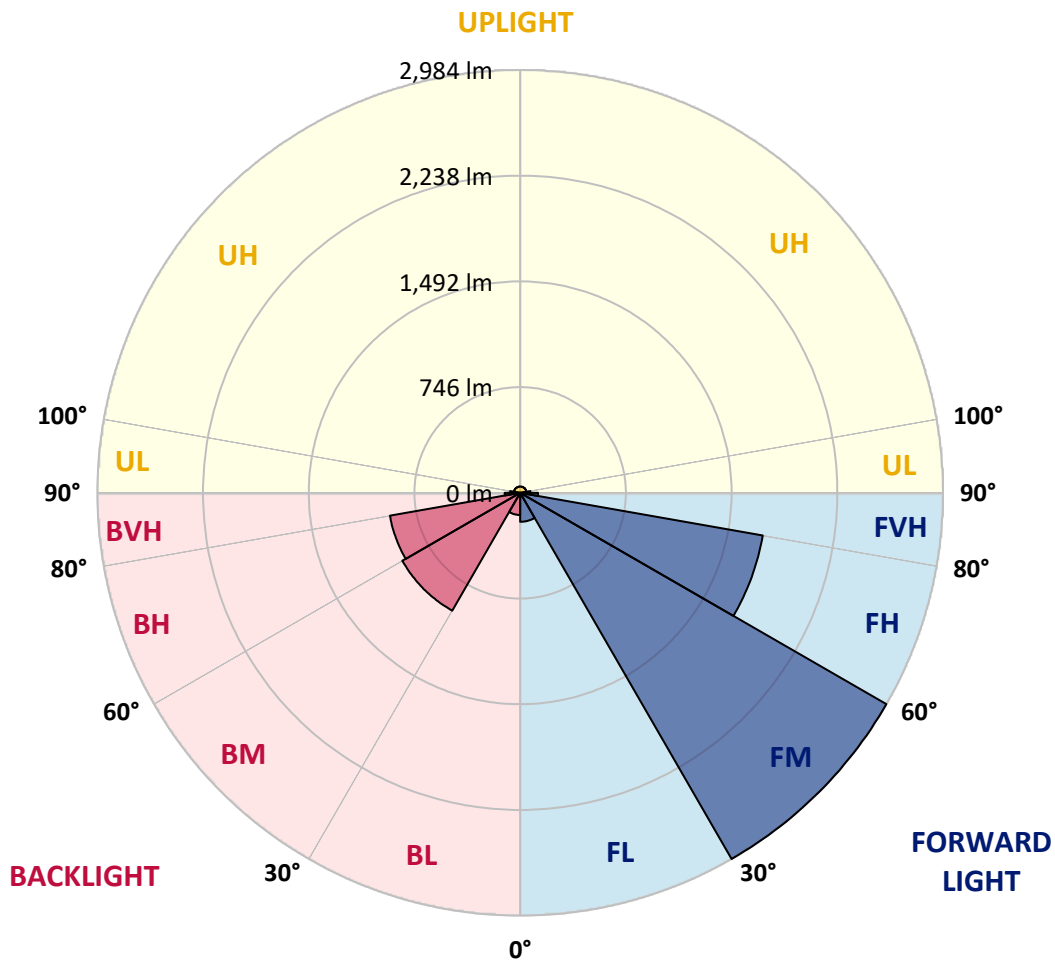
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.4	2.8			
FM	(30°-60°)	2984.4	40.9			
FH	(60°-80°)	1738.5	23.8			G1/1800
FVH	(80°-90°)	125.9	1.7			G2/225
BL	(0°-30°)	156.4	2.1	B1/500		
BM	(30°-60°)	960.9	13.2	B1/1000		
BH	(60°-80°)	933.1	12.8	B2/1000		G2/1000
BVH	(80°-90°)	109.4	1.5			G2/225
UL	(90°-100°)	71.8	1.0		U3/500	
UH	(100°-180°)	44.6	0.6		U2/50	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	8.5	8.5	8.5	9.4	8.5	7.7	6.8	5.1	4.3	2.5	2.5
5°	112.4	112.4	111.6	108.2	33.4	17.2	11.1	6.8	6.8	4.3	2.5
7.5°	126.1	125.3	125.3	121.8	121.0	111.6	56.7	11.1	10.3	6.0	3.5
10°	139.9	136.5	134.7	132.1	132.9	125.3	116.7	54.9	31.7	11.9	9.4
12.5°	259.2	257.5	249.6	210.3	145.9	133.8	131.3	109.9	106.4	91.7	107.3
15°	286.6	281.4	276.3	275.4	260.9	163.0	206.8	270.3	272.8	210.3	227.5
17.5°	334.7	326.1	308.8	296.0	288.3	334.7	308.1	298.5	301.2	257.5	256.6
20°	507.2	506.3	497.8	439.4	329.5	413.6	398.0	341.4	339.7	465.1	454.0
22.5°	598.0	583.4	572.3	553.4	566.3	453.0	483.9	497.8	508.8	533.8	510.5
25°	899.3	825.5	788.5	641.0	674.4	573.2	637.5	583.4	578.2	596.4	642.6
27.5°	1037.5	1041.7	1012.5	960.2	779.1	804.1	711.3	817.7	810.9	825.5	791.9
30°	1381.5	1358.2	1199.5	1148.0	1007.4	916.5	980.8	919.9	900.1	882.9	875.2
32.5°	1703.2	1702.4	1659.4	1446.7	1268.1	1072.5	1115.4	1021.9	1027.9	1139.5	1167.0
35°	2203.5	2170.8	1913.5	1783.9	1515.4	1369.5	1252.7	1329.1	1318.8	1303.4	1314.5
37.5°	2781.8	2740.5	2521.8	2116.9	1837.2	1571.0	1556.6	1501.5	1463.9	1480.9	1492.2
40°	3120.7	3086.4	2895.1	2550.9	2144.3	1922.9	1780.5	1699.0	1652.6	1720.4	1717.7
42.5°	3361.8	3331.9	3222.0	2866.9	2578.4	2342.5	2046.5	1929.7	1881.7	1985.6	1945.2
45°	3484.5	3432.2	3419.4	3151.7	2957.7	2852.2	2414.6	2213.0	2152.9	2263.5	2215.5
47.5°	3422.0	3364.4	3414.2	3244.3	3299.2	3295.0	2871.9	2542.5	2502.9	2595.7	2523.6
50°	3131.0	3097.5	3204.9	3228.0	3474.3	3653.5	3380.7	2891.6	2941.4	2896.9	2847.8
52.5°	2652.2	2638.5	2810.2	3003.3	3447.7	3888.8	3849.2	3291.5	3403.0	3204.0	3138.8
55°	2143.4	2146.1	2333.1	2561.2	3170.5	3922.2	4256.8	3768.6	3863.8	3513.7	3422.8
57.5°	1565.0	1633.7	1847.4	2041.3	2643.6	3702.5	4509.1	4245.7	4324.6	3833.7	3682.0
60°	1015.1	1040.0	1297.4	1605.5	1949.5	3036.7	4606.9	4682.4	4743.3	4165.9	3929.0
62.5°	670.1	672.7	779.1	1134.4	1347.9	2119.5	4368.4	5042.7	5101.1	4421.5	4139.3
64°	533.8	532.9	595.4	870.9	1070.1	1568.5	3995.1	5126.0	5181.0	4532.3	4218.3
65°	471.2	470.3	515.6	700.1	914.7	1253.7	3622.8	5095.9	5149.2	4582.1	4239.6
67.5°	399.8	401.5	419.6	481.4	662.4	754.2	2216.4	4669.5	4713.2	4543.4	4165.0
70°	368.9	370.7	392.1	404.1	522.5	560.4	963.6	3814.1	3864.7	4367.5	3993.3
72.5°	325.1	327.8	356.1	387.0	414.5	465.1	613.5	2624.8	2769.8	3787.4	3762.6
75°	271.9	274.6	301.2	341.4	361.3	379.3	531.2	1392.6	1572.8	2850.4	3353.3
77.5°	222.2	223.9	246.2	273.8	328.6	294.4	465.1	712.1	755.0	1803.6	2479.9
80°	163.9	165.6	189.6	219.6	254.8	256.6	383.5	513.1	515.6	986.8	1338.6
82.5°	112.4	113.2	137.4	154.5	180.2	237.7	307.2	423.0	444.5	586.1	615.2
85°	77.3	78.2	92.6	98.6	113.2	131.3	222.2	332.1	364.7	420.4	368.9
87.5°	36.9	38.5	40.3	42.8	44.6	46.4	95.2	244.6	257.5	280.6	291.7
90°	30.9	30.9	24.1	23.1	26.6	27.5	43.7	208.4	204.3	268.6	290.1
92.5°	30.9	30.9	22.3	21.5	24.1	23.1	31.7	171.5	166.5	264.3	286.6
95°	26.6	27.5	18.1	17.2	20.7	18.9	25.0	100.4	106.4	186.2	211.9
97.5°	22.3	22.3	13.7	13.7	14.6	13.7	16.3	36.9	41.2	79.0	93.6
100°	16.3	17.2	8.5	9.4	9.4	8.5	8.5	15.5	17.2	21.5	20.7
102.5°	13.7	15.5	6.0	6.8	5.1	5.1	4.3	6.8	6.8	11.1	16.3
105°	10.3	11.9	4.3	4.3	3.5	3.5	1.6	5.1	5.1	9.4	17.2
107.5°	6.0	6.8	2.5	2.5	2.5	3.5	1.6	3.5	4.3	7.7	14.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	2.5	2.5	0.9	1.6	0.9	2.5	1.6	3.5	4.3	3.5	7.7
112.5°	0.0	0.0	0.0	0.0	0.0	0.9	1.6	2.5	2.5	1.6	4.3
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	0.9	1.6	4.3
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.6	4.3
120°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.6	4.3
122.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.6	3.5
125°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.5
127.5°	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.5
130°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.5
132.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
135°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
137.5°	0.9	0.9	0.9	0.0	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°	2.5	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	3.5	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.9
147.5°	4.3	4.3	3.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9
150°	3.5	3.5	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9
152.5°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	2.5	3.5	3.5	4.3	4.3	5.1	5.1	5.1	5.1	4.3	4.3
5°	2.5	3.5	3.5	4.3	5.1	6.8	7.7	9.4	9.4	10.3	10.3
7.5°	3.5	3.5	4.3	5.1	7.7	12.8	38.5	122.7	127.0	138.2	139.0
10°	8.5	9.4	9.4	10.3	25.0	126.1	141.7	147.6	155.2	156.1	155.2
12.5°	113.2	109.0	104.7	32.6	124.4	151.9	156.1	164.7	169.1	181.8	181.8
15°	229.1	229.1	221.4	243.7	220.5	169.1	181.8	285.8	296.0	303.7	299.4
17.5°	260.0	260.0	254.8	308.8	332.1	267.8	292.6	314.9	321.8	323.5	322.6
20°	467.7	462.4	417.1	379.3	346.7	424.8	358.7	324.4	386.1	447.0	450.5
22.5°	508.8	502.0	490.8	497.8	455.6	437.7	411.1	431.5	445.3	448.0	448.8
25°	641.7	637.5	554.3	530.3	572.3	488.1	494.2	423.0	430.7	440.2	439.4
27.5°	795.4	781.6	739.7	634.9	598.9	575.8	466.8	447.0	494.2	496.9	495.1
30°	882.9	844.3	767.2	784.3	647.0	550.9	463.3	468.5	448.0	448.8	450.5
32.5°	1177.3	1131.0	1031.3	912.0	690.7	518.2	448.8	420.4	454.0	459.9	462.4
35°	1287.1	1245.9	1160.2	1079.5	703.6	494.2	398.9	411.9	412.7	414.5	416.2
37.5°	1439.9	1382.3	1311.0	1131.0	699.3	435.0	388.6	390.5	417.9	423.0	425.5
40°	1627.6	1554.7	1474.9	1154.1	630.7	412.7	380.2	393.0	402.4	399.8	401.5
42.5°	1850.0	1751.2	1639.8	1126.7	534.6	402.4	380.2	388.6	390.5	382.7	382.7
45°	2105.6	1995.9	1779.6	1095.8	460.8	405.9	388.6	383.5	375.0	363.9	361.3
47.5°	2385.4	2257.5	1908.3	1035.7	409.3	403.2	393.8	375.0	365.5	356.1	356.1
50°	2684.9	2550.2	2018.1	943.0	385.3	398.9	391.3	380.2	369.8	352.7	351.7
52.5°	2971.5	2861.6	2154.6	816.9	362.0	402.4	411.1	386.1	371.4	348.4	348.4
55°	3248.6	3185.1	2277.3	717.3	352.7	392.1	422.2	400.7	369.8	351.7	352.7
57.5°	3524.9	3517.1	2418.0	650.5	341.4	386.1	436.8	411.9	386.1	368.1	368.1
60°	3838.9	3874.1	2599.1	575.8	339.7	379.3	442.8	430.7	400.7	397.3	398.0
62.5°	4109.2	4201.1	2737.1	489.0	328.6	374.1	453.0	448.8	418.7	415.2	420.4
64°	4242.2	4344.4	2791.3	435.0	326.1	377.6	457.3	466.8	438.5	441.8	441.8
65°	4290.2	4390.6	2806.8	398.9	323.5	379.3	458.1	472.8	442.8	441.8	441.8
67.5°	4292.0	4369.3	2752.6	342.3	312.3	378.4	462.4	489.0	459.9	479.6	471.9
70°	4190.8	4090.3	2543.3	302.9	310.6	379.3	459.0	480.6	454.7	499.4	495.1
72.5°	3911.8	3551.4	2020.6	266.8	314.0	374.1	441.1	458.1	439.4	504.6	500.3
75°	3305.3	2768.0	1244.2	249.6	309.7	356.1	419.6	417.1	407.7	448.8	446.2
77.5°	2271.3	1821.7	595.4	243.7	303.7	331.3	372.3	368.1	357.9	375.0	369.8
80°	1175.5	962.8	359.5	223.0	282.2	287.5	303.7	307.2	296.0	300.4	293.4
82.5°	556.1	508.0	302.0	203.3	242.0	212.8	236.0	247.2	227.5	228.2	204.3
85°	347.6	354.4	248.8	157.9	163.0	129.5	163.9	175.9	151.1	128.6	122.7
87.5°	288.3	301.2	183.7	88.4	75.5	66.0	92.6	96.9	69.4	58.3	54.1
90°	297.8	307.2	181.1	70.3	60.0	49.8	67.8	60.0	42.8	37.8	34.3
92.5°	295.2	299.4	179.3	67.8	56.7	45.5	57.5	46.4	33.4	29.1	26.6
95°	222.2	238.5	144.9	66.0	49.8	36.9	42.8	36.0	23.1	20.7	18.9
97.5°	91.7	108.2	85.8	62.6	38.5	27.5	28.3	25.0	13.7	11.9	11.1
100°	18.1	28.3	45.5	45.5	18.9	14.6	14.6	13.7	6.8	6.0	5.1
102.5°	18.1	17.2	20.7	25.0	8.5	4.3	5.1	6.8	4.3	6.0	6.0
105°	18.9	18.1	11.1	6.8	5.1	2.5	1.6	1.6	3.5	6.8	7.7
107.5°	17.2	17.2	7.7	5.1	4.3	3.5	0.9	0.9	2.5	7.7	8.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.5	9.4	6.0	4.3	4.3	3.5	0.9	0.0	2.5	8.5	9.4
112.5°	5.1	5.1	5.1	3.5	2.5	2.5	0.9	0.0	2.5	9.4	10.3
115°	5.1	5.1	4.3	3.5	2.5	1.6	0.0	0.0	2.5	10.3	11.1
117.5°	5.1	5.1	4.3	2.5	1.6	0.9	0.0	0.0	2.5	10.3	11.1
120°	5.1	5.1	4.3	2.5	1.6	0.9	0.0	0.0	2.5	9.4	10.3
122.5°	5.1	5.1	4.3	2.5	1.6	0.9	0.0	0.0	2.5	7.7	8.5
125°	4.3	4.3	3.5	2.5	1.6	0.9	0.0	0.0	1.6	6.8	6.8
127.5°	3.5	4.3	3.5	2.5	1.6	0.9	0.0	0.0	1.6	5.1	6.0
130°	3.5	3.5	2.5	2.5	1.6	0.9	0.0	0.0	0.9	4.3	5.1
132.5°	2.5	2.5	1.6	1.6	1.6	0.9	0.0	0.0	0.0	1.6	2.5
135°	0.9	1.6	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.9
137.5°	0.9	0.9	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0
140°	0.9	0.9	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0
142.5°	0.9	0.9	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0
145°	0.9	1.6	1.6	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0
147.5°	1.6	1.6	1.6	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0
150°	1.6	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	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)