

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: P266251

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T4W-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-T4W-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7187.4 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G3

Input Watts (W): 96  
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

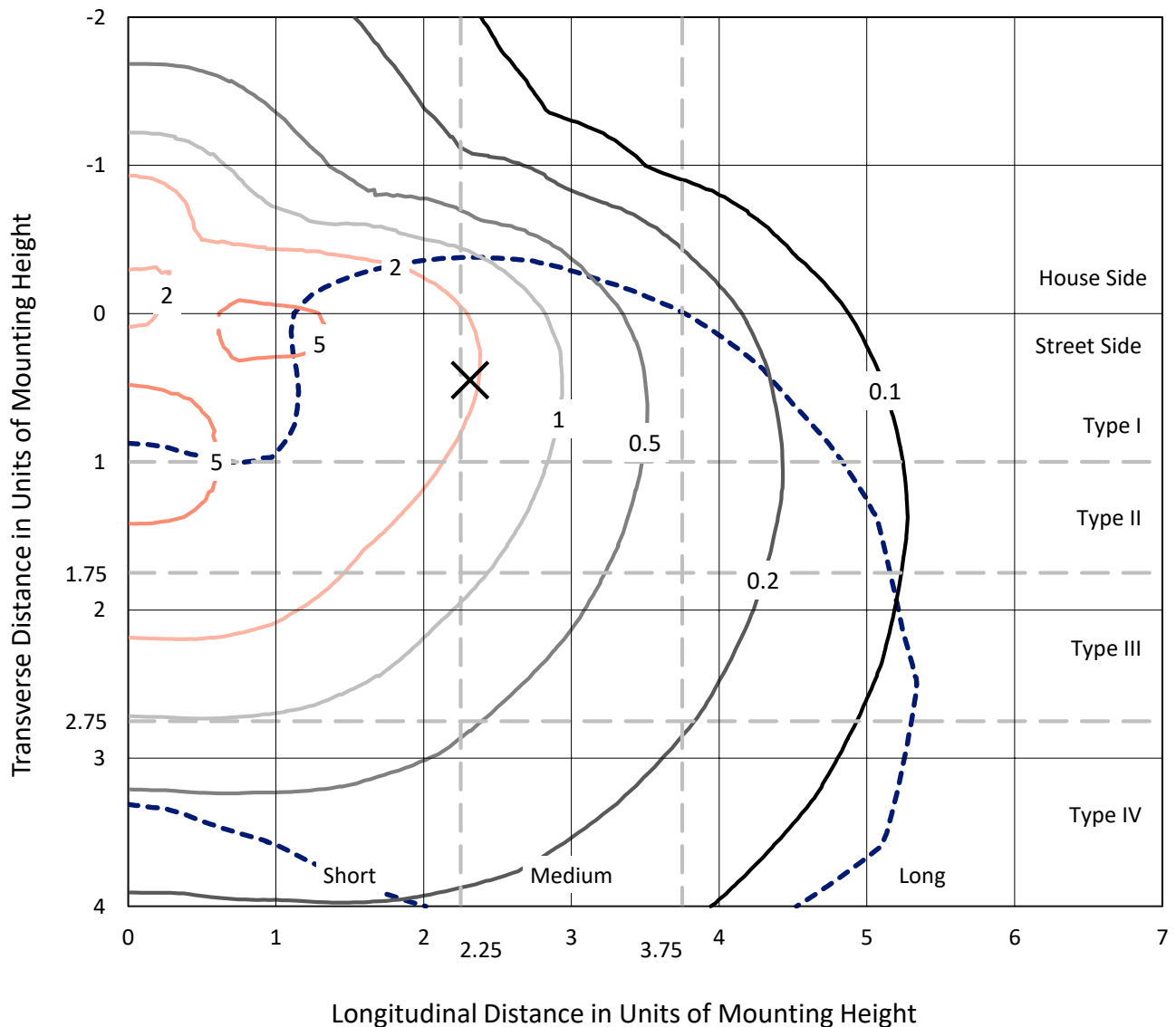


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

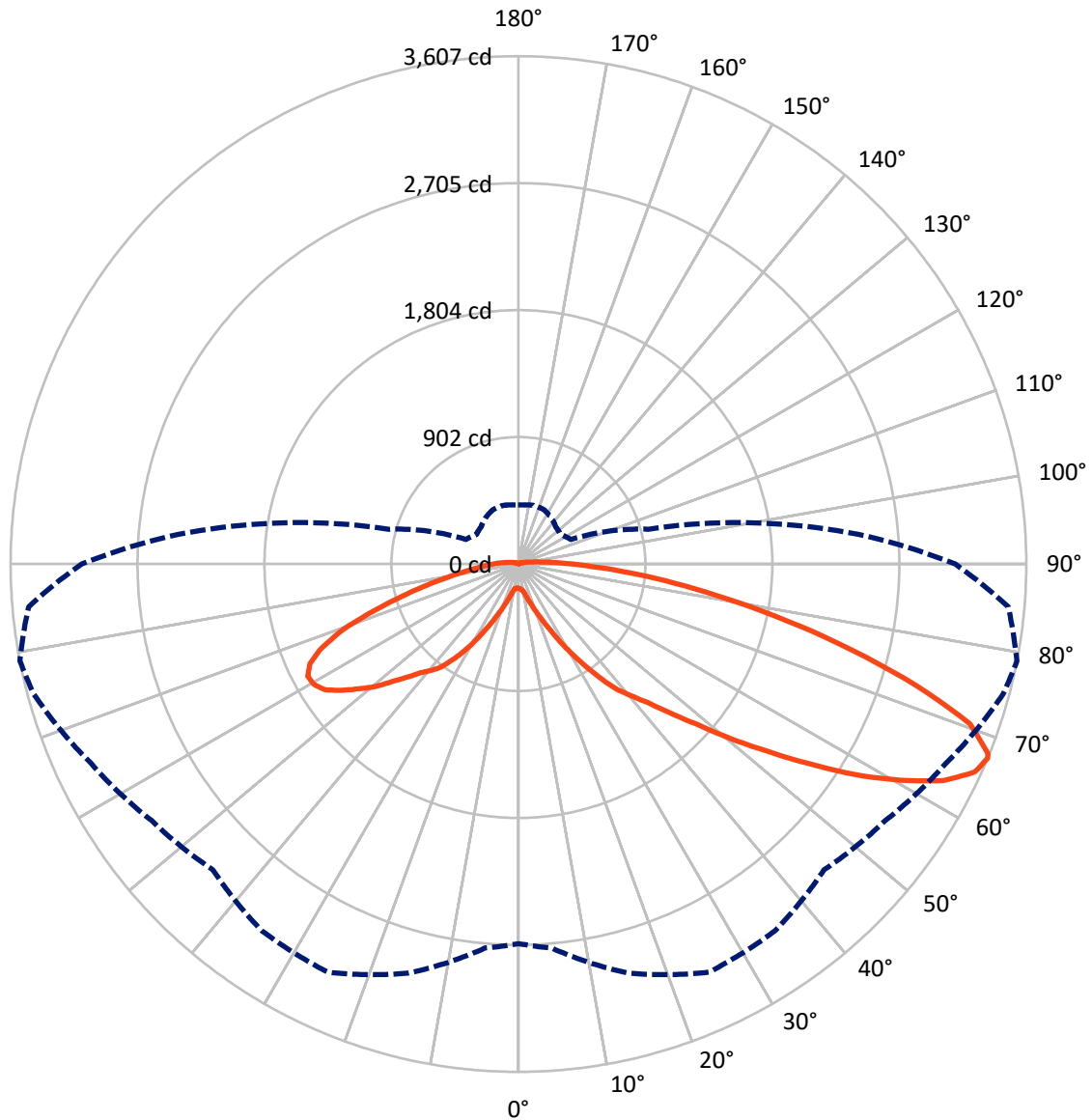


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical



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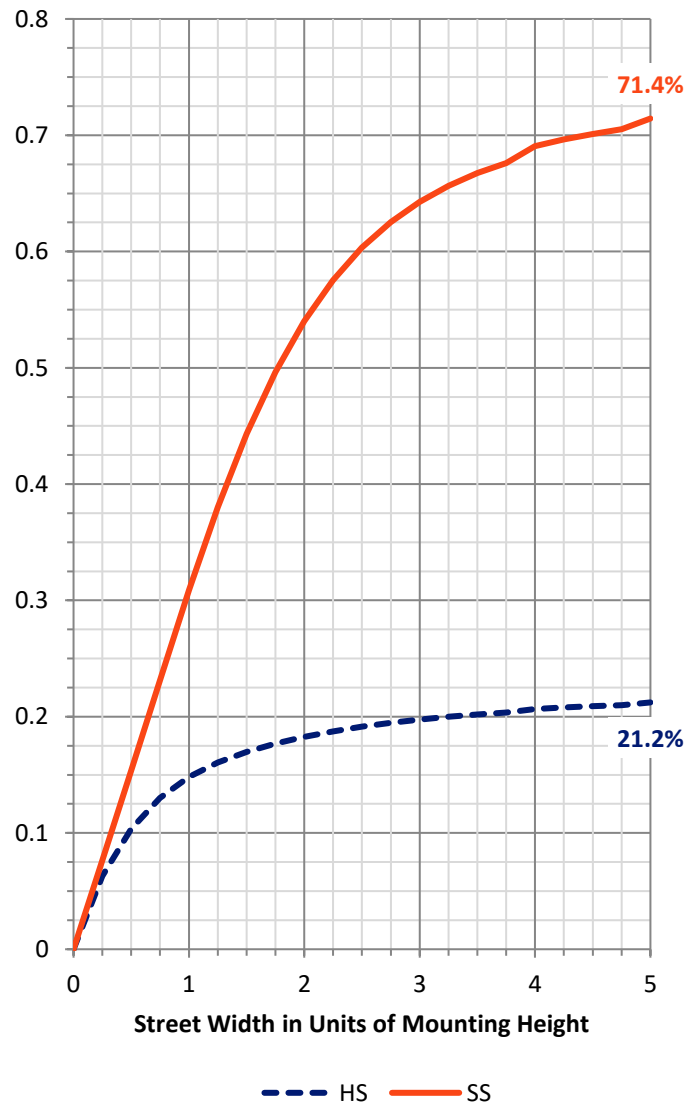
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1602.9	108.1	1711.0
	% Fixture	22.3	1.5	23.8
<b>Street Side</b>	Lumens	5326.5	149.9	5476.4
	% Fixture	74.1	2.1	76.2
<b>Total</b>	Lumens	6929.3	258.0	7187.4
	% Fixture	96.4	3.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.5	0.2
10°-20°	73.8	1.0
20°-30°	213.0	3.0
30°-40°	483.1	6.7
40°-50°	839.4	11.7
50°-60°	1345.0	18.7
60°-70°	1874.2	26.1
70°-80°	1480.4	20.6
80°-90°	602.9	8.4
90°-100°	172.0	2.4
100°-110°	51.2	0.7
110°-120°	19.8	0.3
120°-130°	9.5	0.1
130°-140°	4.3	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6929.3	96.4
0°-180°	7187.4	100.0

**Coefficient of Utilization**



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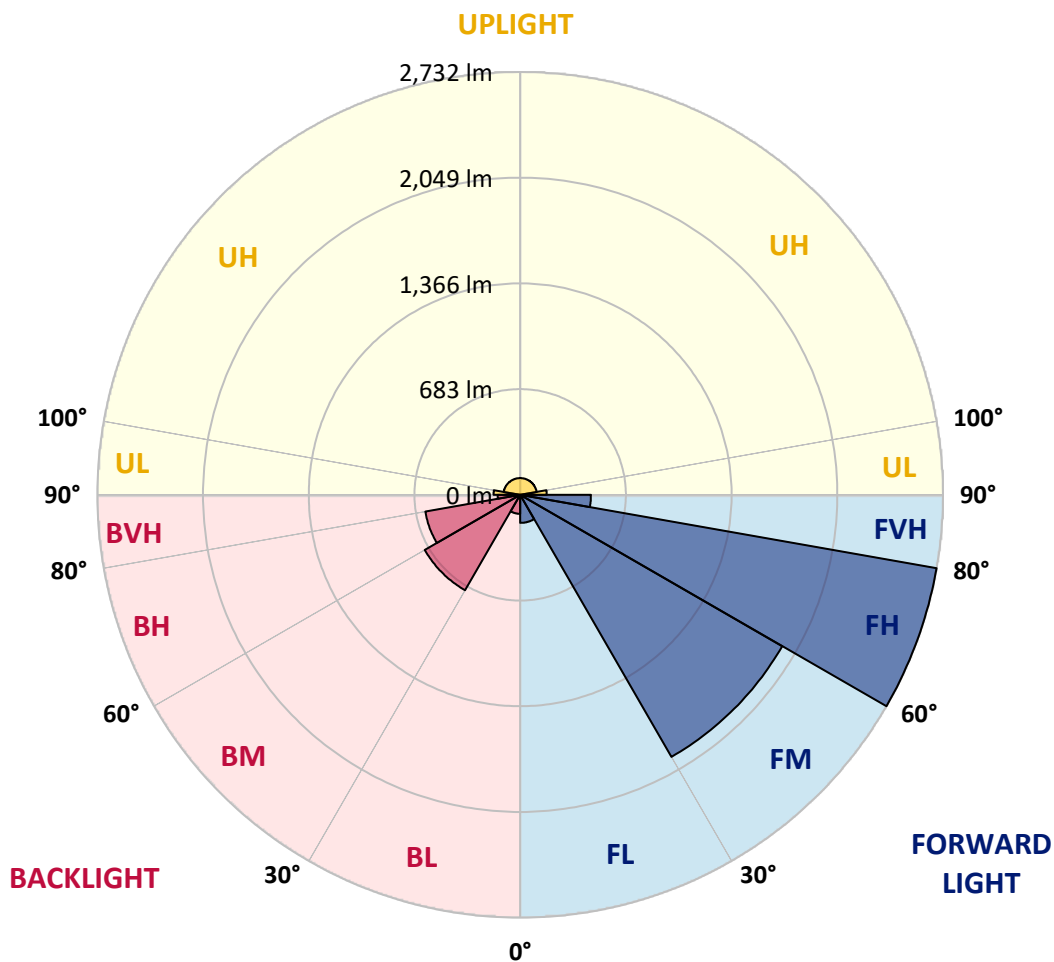
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.5	2.5			
FM (30°-60°)	1955.4	27.2			
FH (60°-80°)	2732.2	38.0			G2/5000
FVH (80°-90°)	457.4	6.4			G3/500
BL (0°-30°)	122.9	1.7	B1/500		
BM (30°-60°)	712.1	9.9	B1/1000		
BH (60°-80°)	622.3	8.7	B2/1000		G2/1000
BVH (80°-90°)	145.6	2.0			G2/225
UL (90°-100°)	172.0	2.4		U3/500	
UH (100°-180°)	108.1	1.5		U3/500	

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8
2.5°	184.2	184.2	185.1	185.1	185.1	183.3	180.6	178.1	176.3	175.4	173.7
5°	198.0	197.2	198.0	197.2	197.2	193.8	189.5	185.1	181.5	179.8	177.2
7.5°	218.1	218.1	217.2	215.5	213.7	207.7	200.7	195.6	190.4	186.8	184.2
10°	243.3	244.1	242.5	238.1	233.6	225.8	218.1	211.1	203.2	199.0	195.6
12.5°	282.3	282.3	278.8	269.3	258.9	249.3	240.7	233.6	230.2	225.8	222.4
15°	331.0	330.1	324.9	310.2	296.3	279.7	273.7	269.3	266.6	263.3	258.9
17.5°	388.3	387.4	377.9	358.0	336.2	324.1	314.4	310.2	311.9	308.4	305.0
20°	457.0	455.3	440.4	412.7	390.9	374.5	364.1	359.7	364.9	362.2	359.7
22.5°	544.7	540.4	519.5	479.5	454.4	427.5	417.9	416.2	428.3	428.3	428.3
25°	648.9	644.7	613.4	567.3	523.1	489.9	480.5	489.9	510.0	512.7	517.9
27.5°	769.8	764.5	726.3	662.1	602.9	558.7	550.8	570.0	601.1	613.4	618.6
30°	912.1	908.7	854.0	772.4	688.9	633.3	624.6	659.4	708.0	727.2	740.3
32.5°	1080.8	1076.3	997.4	900.9	784.5	715.1	708.0	761.0	834.0	852.3	878.4
35°	1289.2	1284.9	1180.7	1045.9	891.4	801.8	801.8	870.5	960.0	985.3	1017.3
37.5°	1498.6	1497.7	1392.6	1212.8	1009.5	897.4	899.3	978.3	1086.1	1125.0	1154.6
40°	1702.7	1704.5	1584.7	1378.8	1141.6	1002.6	1001.7	1081.6	1193.7	1227.7	1256.3
42.5°	1888.7	1887.9	1775.0	1555.1	1278.8	1116.4	1100.8	1178.9	1298.0	1344.0	1382.2
45°	2018.2	2027.7	1940.9	1714.1	1416.9	1234.5	1202.4	1289.2	1441.3	1504.8	1556.0
47.5°	2178.8	2179.7	2099.9	1863.5	1558.6	1357.0	1327.4	1437.0	1629.9	1695.9	1749.7
50°	2356.2	2364.8	2301.4	2051.2	1718.5	1495.1	1483.9	1622.0	1851.3	1944.3	2011.2
52.5°	2507.3	2517.7	2478.7	2265.7	1911.4	1672.5	1672.5	1848.0	2093.8	2205.0	2270.1
55°	2618.5	2635.8	2645.5	2471.6	2129.4	1880.1	1899.1	2096.4	2369.2	2502.0	2581.2
57.5°	2707.1	2731.4	2776.7	2655.0	2343.9	2129.4	2157.2	2368.3	2700.1	2824.5	2907.9
60°	2838.4	2866.1	2947.8	2851.3	2590.7	2397.8	2435.1	2665.5	3004.2	3116.3	3179.7
62.5°	2851.3	2885.3	3050.3	3064.2	2821.8	2660.2	2742.7	2968.5	3291.7	3389.1	3403.0
65°	2791.5	2835.7	3054.6	3181.4	3067.6	2906.0	3022.4	3230.1	3497.7	3562.0	3526.3
67°	2695.9	2738.5	3007.7	3198.9	3178.9	3070.2	3178.9	3350.0	3564.7	3607.1	3492.5
67.5°	2655.0	2695.9	2981.7	3195.5	3192.8	3099.0	3204.1	3376.1	3568.1	3596.8	3467.3
70°	2393.5	2449.9	2755.8	3084.2	3186.6	3125.1	3248.5	3367.3	3414.3	3403.9	3218.0
72.5°	1934.0	1987.0	2320.5	2780.2	3014.7	2983.5	3092.9	3114.6	3032.0	2960.9	2707.1
75°	1418.8	1442.1	1749.7	2244.1	2628.9	2664.6	2747.0	2698.5	2547.2	2452.6	2194.5
77.5°	985.3	1008.6	1245.1	1699.4	2119.8	2252.8	2334.4	2263.2	2104.2	1959.2	1677.7
80°	652.4	664.7	849.6	1238.0	1662.9	1848.0	1918.3	1845.3	1643.7	1501.2	1234.5
82.5°	397.9	421.3	555.2	867.9	1285.8	1513.5	1564.7	1480.3	1262.4	1114.6	889.6
85°	238.9	251.0	355.3	586.5	946.2	1200.7	1249.4	1139.8	919.1	786.2	595.9
87.5°	147.7	152.9	223.3	379.7	663.8	896.6	948.7	819.3	620.3	523.9	398.8
90°	95.6	99.9	146.9	250.2	438.7	638.5	662.1	557.8	412.7	349.3	270.2
92.5°	64.3	67.7	99.9	165.9	288.4	418.8	436.1	368.3	272.7	232.8	184.2
95°	45.2	47.8	70.3	112.9	187.7	258.1	276.3	238.9	178.1	153.8	126.8
97.5°	34.8	36.6	53.0	81.7	126.8	166.8	173.7	155.4	120.7	106.0	92.0
100°	27.8	29.6	41.7	61.7	91.2	113.8	118.1	106.9	85.1	76.4	67.7
102.5°	24.3	24.3	33.9	48.7	68.6	84.4	85.1	76.4	62.5	56.5	52.1
105°	20.8	20.8	27.8	39.0	54.7	65.1	65.1	56.5	46.1	41.7	40.0
107.5°	17.3	18.2	23.4	31.4	43.5	52.1	50.3	41.7	33.0	30.5	29.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	14.7	15.6	20.0	26.1	35.7	42.6	40.0	32.2	24.3	22.5	22.5
112.5°	13.0	14.0	16.4	22.5	30.5	35.7	32.2	24.3	18.2	17.3	18.2
115°	12.1	12.1	14.7	20.0	26.1	29.6	26.9	20.0	14.7	14.0	14.7
117.5°	10.4	11.3	13.0	17.3	23.4	25.2	22.5	15.6	11.3	11.3	13.0
120°	10.4	10.4	12.1	15.6	20.8	22.5	19.1	13.0	9.5	9.5	11.3
122.5°	9.5	9.5	11.3	14.7	18.2	20.0	16.4	11.3	8.8	8.8	9.5
125°	9.5	9.5	11.3	14.0	16.4	16.4	14.0	9.5	7.8	7.8	8.8
127.5°	10.4	10.4	11.3	13.0	14.7	14.7	12.1	8.8	6.9	6.9	7.8
130°	10.4	10.4	10.4	12.1	13.0	12.1	10.4	7.8	6.9	6.9	7.8
132.5°	10.4	10.4	10.4	10.4	11.3	10.4	8.8	6.1	6.1	6.1	6.9
135°	9.5	9.5	8.8	9.5	9.5	7.8	6.1	4.3	5.2	5.2	6.1
137.5°	7.8	7.8	7.8	7.8	6.9	6.1	4.3	3.5	4.3	5.2	5.2
140°	6.9	6.9	6.1	6.1	5.2	4.3	2.6	3.5	4.3	4.3	4.3
142.5°	5.2	5.2	5.2	4.3	3.5	2.6	1.7	2.6	3.5	3.5	4.3
145°	3.5	3.5	3.5	2.6	1.7	0.9	1.7	1.7	2.6	3.5	3.5
147.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	1.7	2.6	2.6	2.6
150°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	1.7	2.6	2.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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°	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8
2.5°	172.8	172.0	169.4	167.7	165.9	165.1	164.2	164.2	163.3	162.5	162.5
5°	175.4	173.7	169.4	165.9	163.3	161.5	159.9	159.0	157.3	156.3	156.3
7.5°	180.6	178.1	172.8	166.8	162.5	159.9	158.1	156.3	154.7	154.7	154.7
10°	191.1	187.7	179.8	172.0	165.1	161.5	159.9	158.1	158.1	157.3	157.3
12.5°	217.2	212.0	199.0	185.1	172.8	167.7	165.9	170.3	175.4	176.3	178.9
15°	252.9	247.7	231.1	211.1	191.1	179.8	185.9	193.8	202.4	209.3	209.3
17.5°	297.1	291.1	268.5	240.7	216.3	209.3	211.1	222.4	234.5	240.7	241.6
20°	351.9	343.2	311.9	273.7	246.8	236.3	238.9	250.2	267.5	276.3	278.0
22.5°	420.4	407.4	365.8	311.9	278.8	265.0	267.5	281.4	305.0	317.1	321.5
25°	507.4	490.8	427.5	358.0	311.1	290.2	298.0	319.6	349.3	367.4	366.6
27.5°	607.3	581.3	502.2	405.8	343.2	314.4	326.7	357.0	392.6	413.5	416.2
30°	727.2	693.3	583.8	456.1	371.0	336.2	351.9	390.0	430.1	457.9	460.4
32.5°	860.0	820.2	667.3	506.6	393.5	352.8	370.1	417.9	464.0	496.9	497.8
35°	996.5	945.2	746.3	549.9	412.7	365.8	383.9	438.7	492.6	530.8	533.5
37.5°	1126.8	1066.8	819.3	578.6	424.9	372.6	391.8	456.1	517.0	557.8	560.4
40°	1225.0	1151.2	864.3	588.2	427.5	376.2	398.8	463.0	517.0	548.1	549.9
42.5°	1348.4	1251.1	897.4	578.6	420.4	376.2	401.5	454.4	496.0	517.0	517.0
45°	1513.5	1393.5	947.8	567.3	406.7	373.5	394.4	435.3	463.0	473.4	473.4
47.5°	1710.6	1554.2	999.2	559.6	396.2	367.4	383.9	411.9	426.5	427.5	425.6
50°	1960.0	1757.5	1062.5	548.1	390.0	361.4	374.5	392.6	401.5	397.9	396.2
52.5°	2198.1	1938.3	1107.7	534.3	386.6	358.9	369.3	384.8	387.4	377.1	374.5
55°	2482.0	2150.3	1139.1	511.8	383.1	360.5	369.3	382.3	380.5	366.6	364.1
57.5°	2765.3	2349.2	1166.8	491.7	379.7	363.2	372.6	383.9	380.5	367.4	364.9
60°	2982.6	2485.6	1151.2	470.9	376.2	367.4	378.7	390.0	390.0	379.7	378.7
62.5°	3152.8	2567.3	1113.8	449.2	373.5	371.0	386.6	403.1	406.7	398.8	397.9
65°	3191.0	2534.3	1041.7	428.3	370.1	373.5	397.1	417.9	420.4	412.7	411.9
67°	3101.6	2421.3	953.0	411.0	364.9	374.5	404.0	426.5	430.1	422.3	419.6
67.5°	3062.4	2376.9	930.5	406.7	363.2	374.5	404.9	427.5	431.7	424.0	421.3
70°	2762.7	2113.7	809.7	382.3	351.9	370.1	406.7	433.5	436.1	426.5	423.1
72.5°	2289.2	1704.5	669.9	358.9	337.9	358.9	400.6	429.2	428.3	414.4	411.9
75°	1814.8	1336.1	539.5	331.8	318.9	341.4	383.9	409.2	404.0	387.4	383.9
77.5°	1378.8	999.2	438.7	305.0	297.1	318.9	356.2	374.5	364.1	348.5	344.9
80°	982.6	719.4	357.0	279.7	273.7	292.8	321.5	331.0	324.1	309.2	305.0
82.5°	687.3	517.0	297.1	254.6	251.0	265.9	284.1	293.7	290.2	277.1	273.7
85°	475.3	361.4	250.2	229.3	227.6	238.1	249.3	255.4	258.1	251.0	246.8
87.5°	319.6	265.9	212.9	201.6	202.4	210.3	218.1	224.1	231.9	231.1	226.7
90°	228.4	199.0	178.1	172.8	174.6	183.3	186.8	190.4	199.9	199.9	197.2
92.5°	163.3	151.2	144.2	142.6	146.0	152.9	154.7	155.4	162.5	163.3	158.1
95°	116.4	110.3	112.9	114.7	118.1	124.2	123.3	120.7	124.2	124.2	120.0
97.5°	86.0	84.4	89.6	91.2	93.9	99.1	96.5	92.0	94.7	91.2	88.7
100°	66.0	66.0	72.1	73.0	74.6	77.3	76.4	73.0	73.8	69.4	67.7
102.5°	52.1	53.0	57.3	58.2	59.9	62.5	60.8	59.1	57.3	52.1	52.1
105°	40.9	41.7	45.2	46.1	47.8	50.3	49.5	46.9	44.2	40.0	40.0
107.5°	31.4	33.0	35.7	36.6	38.2	40.9	40.0	36.6	33.0	30.5	30.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.3	26.1	28.7	29.6	30.5	33.0	31.4	27.8	25.2	23.4	23.4
112.5°	20.0	20.8	23.4	24.3	25.2	26.9	25.2	21.6	19.1	18.2	18.2
115°	16.4	17.3	19.1	20.0	21.6	21.6	20.0	16.4	14.7	14.7	14.7
117.5°	14.0	14.7	16.4	17.3	17.3	18.2	15.6	13.0	11.3	12.1	12.1
120°	12.1	12.1	14.0	14.0	14.7	14.7	13.0	10.4	8.8	9.5	10.4
122.5°	10.4	10.4	11.3	12.1	12.1	12.1	10.4	8.8	6.9	7.8	8.8
125°	8.8	9.5	9.5	10.4	10.4	10.4	8.8	6.9	6.1	6.9	6.9
127.5°	8.8	8.8	8.8	8.8	8.8	8.8	6.9	5.2	5.2	6.1	6.1
130°	7.8	7.8	7.8	7.8	6.9	6.1	5.2	3.5	4.3	5.2	5.2
132.5°	6.9	6.9	6.9	6.1	5.2	4.3	3.5	2.6	2.6	4.3	4.3
135°	6.1	6.1	5.2	4.3	3.5	2.6	1.7	1.7	1.7	3.5	3.5
137.5°	5.2	5.2	4.3	3.5	2.6	1.7	0.9	0.0	0.9	1.7	1.7
140°	5.2	5.2	4.3	2.6	1.7	0.9	0.0	0.0	0.0	0.9	0.9
142.5°	4.3	4.3	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.6	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	0.9	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)