

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: P266212

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)  
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-FL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7107.9 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G3

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

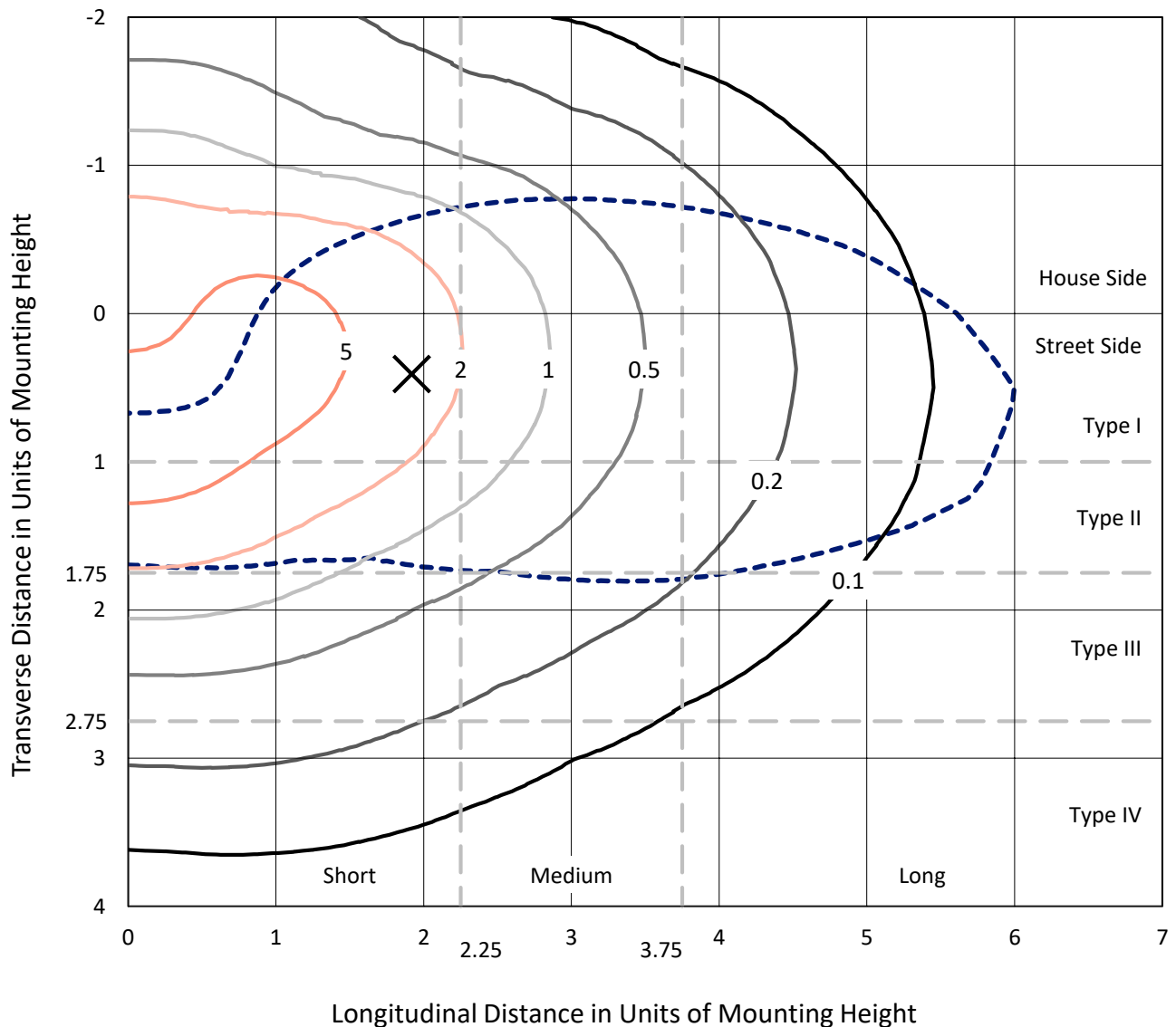


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

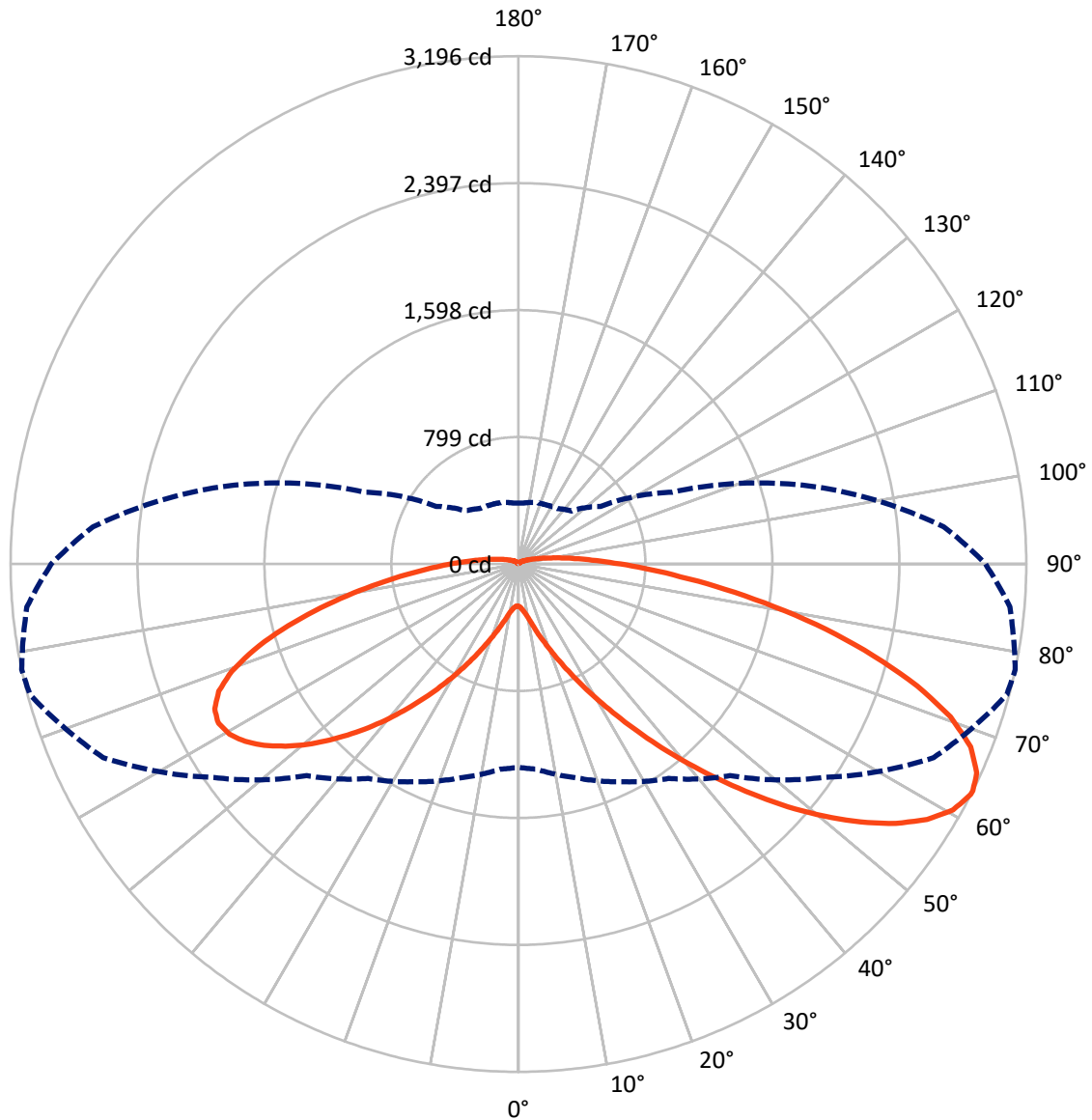


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical



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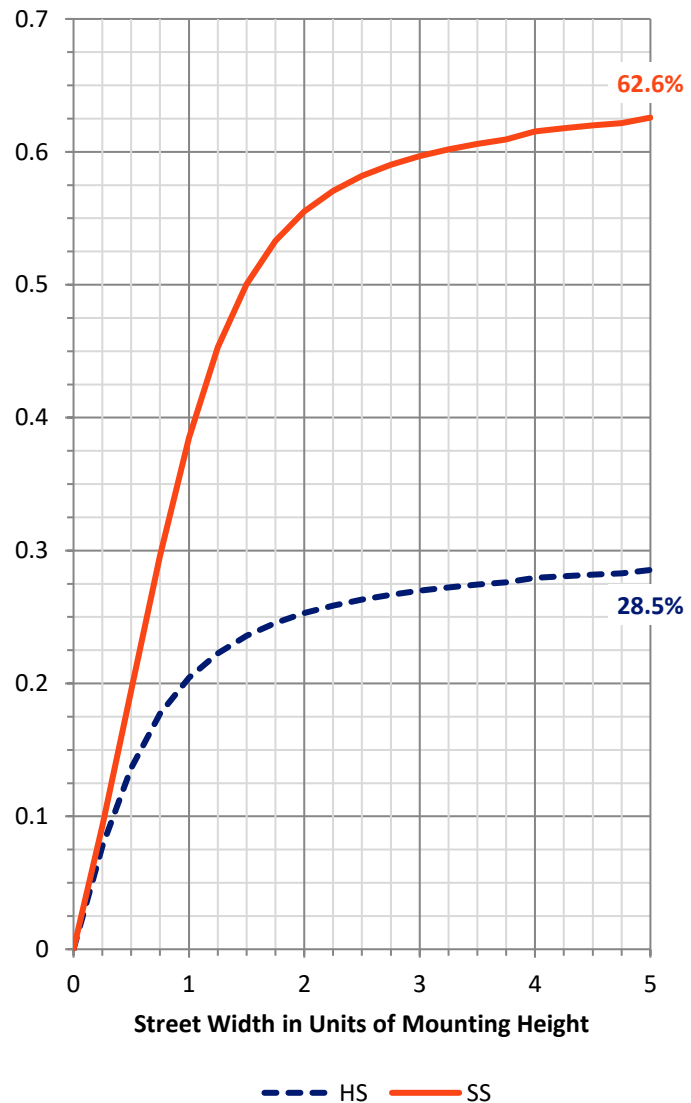
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2111.4	193.0	2304.4
	% Fixture	29.7	2.7	32.4
<b>Street Side</b>	Lumens	4564.5	239.0	4803.5
	% Fixture	64.2	3.4	67.6
<b>Total</b>	Lumens	6675.9	432.0	7107.9
	% Fixture	93.9	6.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	0.4
10°-20°	121.1	1.7
20°-30°	316.7	4.5
30°-40°	657.4	9.2
40°-50°	1107.4	15.6
50°-60°	1455.5	20.5
60°-70°	1441.2	20.3
70°-80°	1026.0	14.4
80°-90°	522.2	7.3
90°-100°	227.2	3.2
100°-110°	104.0	1.5
110°-120°	52.8	0.7
120°-130°	28.1	0.4
130°-140°	14.1	0.2
140°-150°	5.0	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6675.9	93.9
0°-180°	7107.9	100.0

**Coefficient of Utilization**



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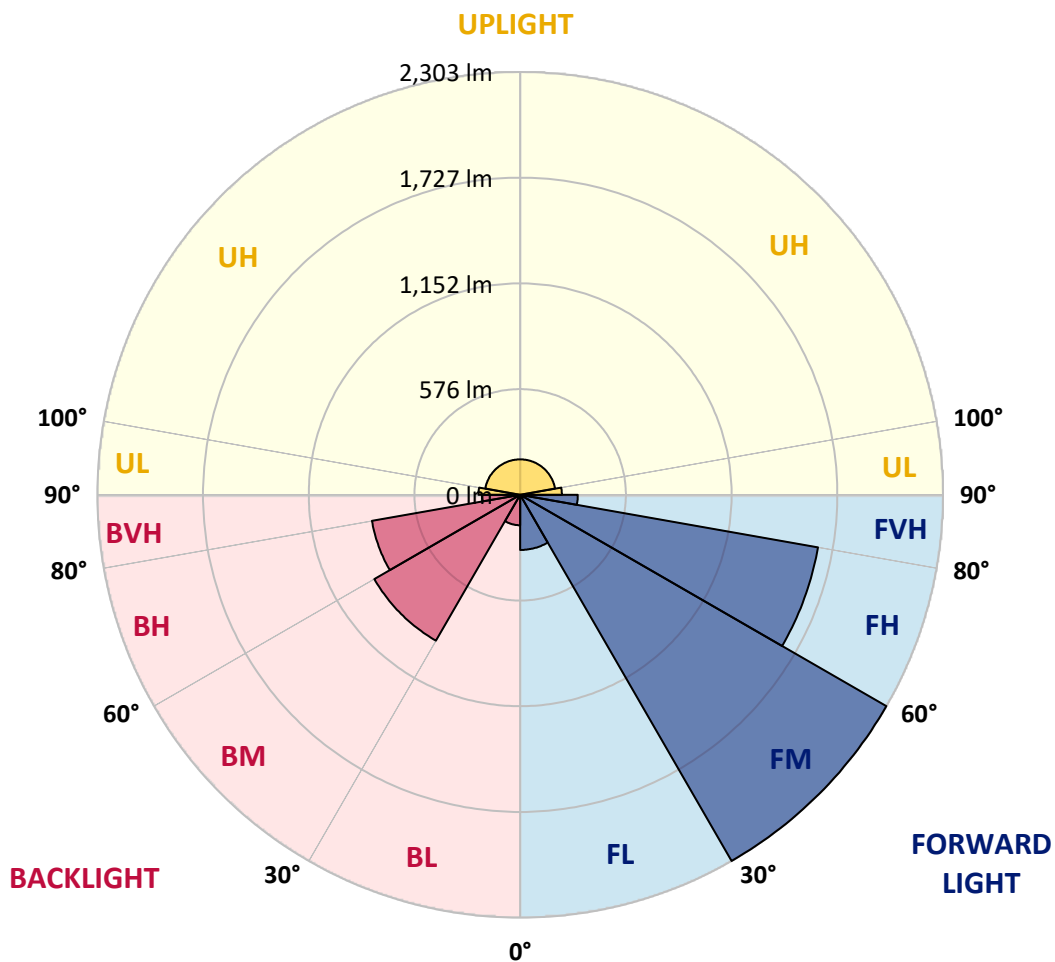
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.4	4.2			
FM (30°-60°)	2303.1	32.4			
FH (60°-80°)	1647.3	23.2			G1/1800
FVH (80°-90°)	313.6	4.4			G3/500
BL (0°-30°)	165.7	2.3	B1/500		
BM (30°-60°)	917.2	12.9	B1/1000		
BH (60°-80°)	819.9	11.5	B2/1000		G2/1000
BVH (80°-90°)	208.6	2.9			G2/225
UL (90°-100°)	227.2	3.2		U3/500	
UH (100°-180°)	193.0	2.7		U3/500	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0
2.5°	295.2	296.0	296.0	294.4	292.6	289.2	285.8	281.4	275.4	274.6	270.3
5°	330.3	331.3	330.3	327.0	323.5	317.6	310.6	302.9	292.6	291.7	284.0
7.5°	373.2	374.1	373.2	367.2	361.3	352.7	343.2	332.1	317.6	314.9	304.6
10°	426.4	428.2	425.5	420.4	410.2	397.3	385.3	368.9	353.6	347.6	334.7
12.5°	494.2	494.2	489.0	481.4	468.5	452.1	436.8	417.1	399.8	391.3	377.6
15°	569.7	570.7	563.7	554.3	540.6	515.6	498.5	478.0	456.5	448.8	429.0
17.5°	656.4	658.2	649.6	635.8	617.0	592.1	570.7	546.6	521.7	508.8	488.3
20°	757.7	757.7	748.3	730.2	706.2	678.7	651.4	623.9	596.4	580.9	559.5
22.5°	872.7	872.7	861.6	837.5	803.2	773.1	743.1	712.1	682.2	665.9	638.4
25°	1005.7	1010.9	989.4	959.3	920.8	878.6	848.5	812.5	780.0	761.9	731.8
27.5°	1155.8	1158.5	1131.9	1087.2	1037.5	993.6	960.2	927.6	891.6	872.7	836.6
30°	1317.2	1312.0	1288.0	1234.8	1169.6	1116.4	1082.8	1052.9	1011.8	997.1	957.7
32.5°	1490.5	1487.1	1456.2	1383.2	1312.9	1248.6	1212.4	1193.6	1152.3	1136.0	1094.0
35°	1673.3	1667.3	1630.3	1554.0	1461.4	1390.9	1358.3	1348.8	1311.2	1294.8	1244.2
37.5°	1864.6	1850.9	1804.5	1707.6	1611.5	1536.8	1522.2	1508.6	1483.6	1466.5	1406.3
40°	2017.4	2011.3	1965.0	1863.8	1759.9	1697.3	1687.8	1697.3	1673.3	1653.5	1584.0
42.5°	2140.9	2136.6	2099.7	2000.2	1896.3	1838.8	1849.2	1880.1	1872.2	1852.6	1775.4
45°	2226.7	2222.3	2195.7	2109.9	2014.8	1972.7	2019.0	2075.7	2080.8	2064.6	1973.5
47.5°	2256.7	2254.1	2239.6	2177.0	2104.0	2093.7	2185.4	2274.8	2296.2	2282.5	2179.5
50°	2218.2	2219.8	2225.0	2196.6	2152.1	2181.3	2316.8	2464.4	2510.8	2495.3	2385.4
52.5°	2118.7	2124.6	2149.5	2158.8	2152.1	2226.7	2426.6	2635.9	2714.9	2697.8	2584.6
55°	1965.9	1974.5	2018.2	2067.1	2102.3	2223.2	2495.3	2781.1	2894.2	2882.3	2764.8
57.5°	1765.1	1782.1	1841.4	1928.1	1999.3	2170.0	2515.1	2880.5	3041.0	3032.4	2918.4
60°	1542.7	1557.4	1638.9	1752.1	1855.2	2066.2	2472.1	2923.4	3140.6	3143.1	3035.1
62.5°	1322.2	1338.7	1434.8	1552.2	1683.6	1917.0	2370.0	2897.8	3181.7	3194.6	3101.0
63°	1279.4	1295.6	1391.8	1511.9	1647.5	1883.4	2342.5	2883.1	3181.7	3196.3	3105.4
65°	1112.9	1128.5	1223.6	1348.8	1492.2	1737.6	2209.6	2797.3	3147.4	3169.7	3098.6
67.5°	919.0	935.2	1031.4	1155.0	1293.1	1531.7	2000.2	2620.5	3029.9	3070.1	3024.8
70°	755.1	772.3	859.8	976.5	1105.3	1322.2	1760.8	2382.8	2841.1	2884.8	2867.7
72.5°	622.0	636.7	722.4	820.3	935.2	1128.5	1515.4	2096.3	2570.8	2623.9	2634.3
75°	508.0	523.4	598.9	686.5	787.8	949.9	1277.7	1793.3	2236.2	2309.9	2339.0
77.5°	414.5	429.0	496.0	572.3	658.2	791.1	1058.8	1493.1	1892.9	1982.1	2019.8
80°	338.1	351.7	406.8	476.2	549.1	656.4	867.6	1203.0	1553.1	1633.7	1673.3
82.5°	274.6	286.6	334.7	395.6	457.3	544.1	708.0	962.8	1240.7	1308.7	1330.0
85°	221.4	231.8	274.6	327.8	380.2	447.0	572.3	761.1	970.4	1023.7	1050.3
87.5°	176.7	185.3	223.9	270.3	314.9	375.9	463.3	606.6	750.9	790.2	807.4
90°	143.3	150.1	181.8	221.4	261.8	306.3	375.9	471.9	577.5	605.7	617.9
92.5°	116.7	121.8	150.1	182.7	218.7	259.2	306.3	373.2	444.5	463.3	471.2
95°	97.8	99.5	124.4	152.7	181.8	216.2	250.5	296.9	343.2	356.1	359.5
97.5°	79.8	82.4	103.8	129.5	154.5	180.2	205.1	237.7	266.8	274.6	275.4
100°	68.6	69.4	87.6	110.8	132.1	152.7	170.8	190.5	207.7	210.3	211.9
102.5°	58.3	59.2	74.6	96.1	114.2	131.3	145.0	156.1	163.0	163.9	163.9
105°	50.7	51.6	64.4	83.3	99.5	112.4	123.5	127.9	129.5	128.6	128.6
107.5°	45.5	45.5	56.7	72.9	87.6	98.6	105.6	106.4	103.8	102.0	102.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	40.3	41.2	49.8	65.1	78.2	86.6	91.7	89.2	84.1	82.4	82.4
112.5°	36.9	37.8	43.7	57.5	68.6	77.3	79.8	75.5	68.6	67.0	67.8
115°	34.3	34.3	39.4	50.7	61.8	68.6	69.4	64.4	56.7	55.8	56.7
117.5°	31.7	31.7	35.2	45.5	54.9	60.9	60.9	54.9	48.1	46.4	47.3
120°	30.1	30.1	32.6	40.3	48.9	54.1	53.2	47.3	40.3	40.3	41.2
122.5°	28.3	28.3	30.1	36.0	43.7	48.1	47.3	40.3	34.3	34.3	35.2
125°	26.6	26.6	27.5	32.6	38.5	42.0	41.2	34.3	30.1	30.1	30.9
127.5°	25.0	25.0	25.7	29.1	34.3	36.9	35.2	29.1	26.6	26.6	27.5
130°	24.1	24.1	24.1	25.7	30.1	32.6	30.1	25.0	23.1	23.1	24.1
132.5°	22.3	22.3	22.3	23.1	25.7	27.5	25.7	21.5	20.7	20.7	21.5
135°	21.5	21.5	20.7	20.7	22.3	23.1	20.7	18.1	18.1	18.1	18.9
137.5°	19.8	19.8	18.9	18.1	18.9	18.9	17.2	14.6	15.5	15.5	16.3
140°	18.1	18.1	17.2	15.5	14.6	14.6	12.8	11.9	12.8	12.8	13.7
142.5°	15.5	15.5	14.6	12.8	11.1	10.3	9.4	9.4	10.3	10.3	11.1
145°	12.8	12.8	11.9	10.3	8.5	7.7	6.8	6.8	7.7	7.7	8.5
147.5°	10.3	10.3	9.4	7.7	6.0	4.3	4.3	5.1	6.0	6.0	6.0
150°	8.5	8.5	7.7	6.0	3.5	2.5	1.6	2.5	3.5	3.5	3.5
152.5°	6.0	6.0	5.1	3.5	2.5	0.9	0.9	1.6	2.5	2.5	2.5
155°	3.5	3.5	2.5	1.6	0.9	0.9	0.9	0.9	1.6	1.6	1.6
157.5°	1.6	1.6	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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°	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0
2.5°	268.6	266.8	262.6	258.4	254.8	252.2	250.5	248.0	247.2	246.2	246.2
5°	279.7	275.4	267.8	260.0	253.1	247.2	242.0	237.7	235.0	233.4	234.3
7.5°	297.8	291.0	279.7	267.8	256.6	248.0	240.2	235.0	230.9	228.3	228.3
10°	326.1	316.7	299.4	282.2	268.6	255.7	246.2	238.5	233.4	230.9	230.9
12.5°	366.4	354.4	330.3	306.3	287.5	270.3	258.4	250.5	248.8	246.2	246.2
15°	414.5	399.8	370.7	339.7	314.0	291.0	280.6	273.8	269.4	266.0	266.0
17.5°	471.2	452.1	415.2	377.6	345.8	321.8	304.6	295.2	290.1	287.5	287.5
20°	536.3	513.1	467.7	420.4	381.1	355.2	332.1	317.6	312.3	309.7	308.8
22.5°	611.8	583.4	528.6	469.4	423.0	388.6	361.3	339.7	333.8	331.3	329.5
25°	701.8	670.1	597.3	525.1	467.7	420.4	387.0	362.9	354.4	351.7	351.0
27.5°	803.2	764.5	675.3	587.0	509.7	448.8	409.3	384.5	373.2	369.8	370.7
30°	916.5	870.9	761.1	649.6	550.9	474.6	427.4	400.7	388.6	385.3	385.3
32.5°	1042.6	982.4	854.6	715.6	589.5	496.0	442.8	415.2	400.7	398.2	398.2
35°	1181.6	1118.8	955.8	782.6	623.9	513.1	454.0	426.4	411.1	407.7	407.7
37.5°	1341.2	1258.7	1063.1	846.9	653.0	526.0	461.6	433.3	417.9	412.7	412.7
40°	1503.4	1408.2	1174.8	907.8	678.0	533.8	466.0	436.8	422.2	415.2	414.5
42.5°	1681.0	1561.8	1288.8	963.6	695.1	538.1	466.8	439.4	423.9	415.2	413.6
45°	1865.4	1736.8	1394.3	1011.8	708.0	538.1	466.0	438.5	423.9	412.7	411.1
47.5°	2051.6	1905.8	1504.2	1051.9	714.0	535.4	464.2	437.7	423.0	409.3	407.7
50°	2245.6	2074.8	1608.1	1083.7	713.1	530.3	459.9	435.0	419.6	405.0	403.2
52.5°	2427.5	2230.1	1703.2	1106.1	708.0	522.5	454.8	432.4	417.1	400.7	398.9
55°	2604.2	2386.3	1785.7	1118.1	696.7	513.1	449.6	429.0	414.5	396.4	395.6
57.5°	2746.7	2517.6	1850.0	1117.2	680.5	501.2	443.7	424.8	411.1	393.8	392.1
60°	2863.3	2623.1	1891.2	1104.3	660.8	489.0	436.8	419.6	407.7	390.5	387.9
62.5°	2932.1	2682.2	1901.5	1076.9	636.7	475.4	427.4	411.9	401.6	386.1	383.5
63°	2939.8	2687.5	1898.8	1070.1	631.6	471.9	425.5	411.1	400.7	385.3	382.7
65°	2937.2	2685.8	1874.0	1034.8	609.2	458.2	417.1	403.2	394.7	380.2	377.6
67.5°	2870.3	2620.5	1803.6	976.5	576.6	440.2	403.2	392.1	383.5	370.7	368.1
70°	2725.3	2481.6	1685.3	903.5	540.6	419.6	386.1	377.6	368.9	356.9	353.6
72.5°	2510.8	2276.5	1526.5	825.5	502.8	395.6	367.2	358.7	351.7	341.5	335.4
75°	2231.0	2016.4	1342.8	738.0	461.6	370.7	344.1	337.3	328.6	319.2	314.0
77.5°	1905.8	1719.5	1148.9	647.9	419.6	342.3	319.2	311.5	303.7	293.4	286.6
80°	1577.2	1420.9	956.8	560.4	377.6	312.3	291.7	284.9	275.4	264.3	257.5
82.5°	1264.9	1143.0	782.6	479.6	336.3	282.2	263.5	254.8	244.6	233.4	229.1
85°	987.6	898.5	630.7	406.8	296.0	252.2	235.0	226.6	213.6	200.9	195.7
87.5°	761.9	696.7	506.3	342.3	259.2	223.0	205.9	195.7	183.7	170.8	166.5
90°	584.3	539.7	405.0	288.4	225.7	193.9	180.2	170.8	157.1	144.2	140.8
92.5°	448.0	417.9	325.1	242.8	193.0	169.9	157.9	147.6	133.8	121.0	118.3
95°	344.1	324.4	262.6	203.3	167.4	148.4	138.2	127.0	113.2	101.2	98.6
97.5°	266.8	253.1	211.9	171.7	145.0	129.5	121.0	109.9	96.1	85.0	83.3
100°	206.8	198.3	172.5	144.2	126.1	113.2	104.7	95.2	82.4	70.3	70.3
102.5°	161.3	156.1	141.7	123.5	109.9	100.4	92.6	82.4	69.4	60.0	59.2
105°	127.9	125.3	116.7	105.6	96.1	88.4	81.6	71.2	59.2	50.7	50.7
107.5°	102.0	101.2	96.9	90.1	84.1	78.2	72.0	61.8	50.7	43.7	43.7



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	83.3	83.3	81.6	77.3	73.8	68.6	62.6	54.1	42.8	37.8	37.8
112.5°	68.6	69.4	68.6	67.0	65.1	60.9	55.8	46.4	36.9	33.4	33.4
115°	57.5	58.3	58.3	58.3	57.5	54.1	48.9	40.3	31.7	29.1	29.1
117.5°	48.9	49.8	50.7	50.7	49.8	47.3	42.8	35.2	27.5	25.7	26.6
120°	42.0	42.8	43.7	44.6	43.7	42.0	36.9	30.1	24.1	23.1	23.1
122.5°	36.9	37.8	37.8	38.5	38.5	36.9	32.6	25.7	20.7	20.7	20.7
125°	31.7	32.6	33.4	33.4	34.3	31.7	27.5	21.5	18.1	18.1	18.9
127.5°	28.3	28.3	28.3	29.1	29.1	27.5	24.1	18.1	15.5	16.3	16.3
130°	25.0	25.0	25.7	25.7	25.7	24.1	19.8	15.5	13.7	14.6	14.6
132.5°	21.5	22.3	22.3	21.5	21.5	20.7	16.3	12.8	11.9	12.8	12.8
135°	18.9	19.8	19.8	18.1	18.1	16.3	13.7	10.3	11.1	11.1	11.9
137.5°	16.3	17.2	16.3	15.5	14.6	13.7	11.1	8.5	9.4	10.3	10.3
140°	13.7	13.7	13.7	12.8	11.9	10.3	8.5	6.8	8.5	8.5	8.5
142.5°	11.1	11.1	11.1	10.3	8.5	7.7	6.0	6.0	6.8	6.8	6.8
145°	8.5	8.5	8.5	7.7	6.0	5.1	4.3	4.3	5.1	6.0	6.0
147.5°	6.0	6.0	6.0	5.1	3.5	2.5	2.5	3.5	4.3	4.3	4.3
150°	4.3	4.3	4.3	3.5	2.5	1.6	1.6	2.5	2.5	3.5	3.5
152.5°	2.5	3.5	3.5	2.5	1.6	0.9	0.9	1.6	1.6	1.6	1.6
155°	1.6	1.6	2.5	1.6	1.6	0.9	0.0	0.0	0.9	0.9	0.9
157.5°	1.6	1.6	1.6	1.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)