

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: P266253

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)  
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-FL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7125.6 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G4

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

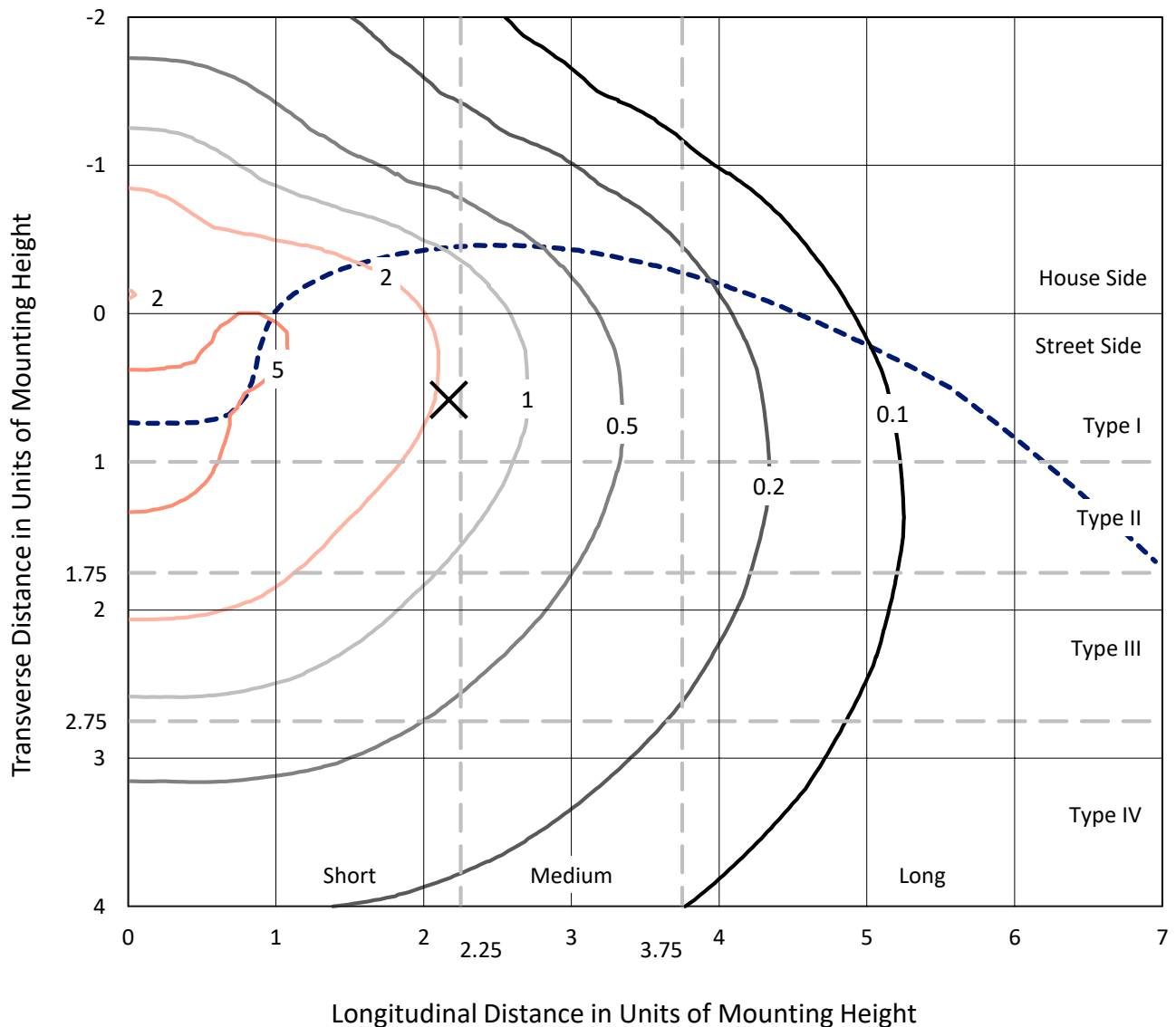


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

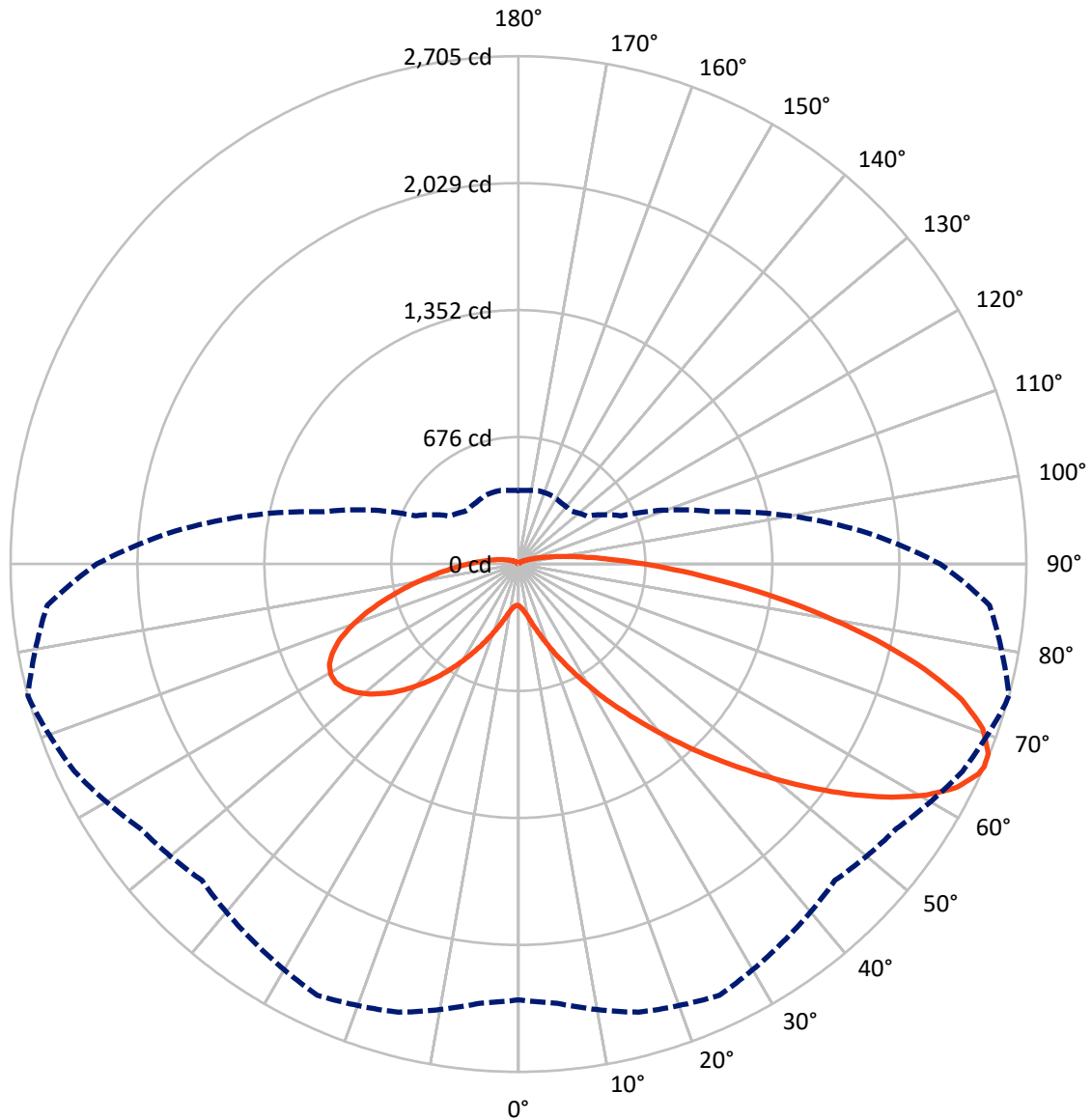


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical



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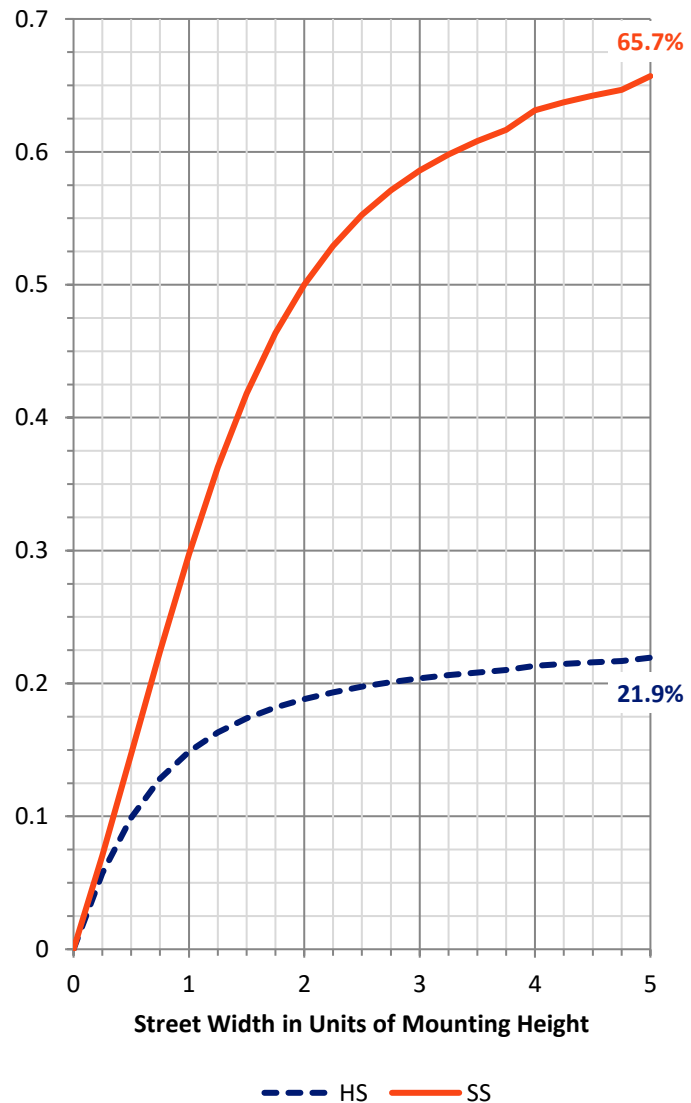
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1651.2	177.9	1829.1
	% Fixture	23.2	2.5	25.7
<b>Street Side</b>	Lumens	4951.3	345.2	5296.4
	% Fixture	69.5	4.8	74.3
<b>Total</b>	Lumens	6602.5	523.1	7125.6
	% Fixture	92.7	7.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.5	0.3
10°-20°	98.7	1.4
20°-30°	249.7	3.5
30°-40°	499.5	7.0
40°-50°	849.3	11.9
50°-60°	1263.8	17.7
60°-70°	1551.8	21.8
70°-80°	1334.5	18.7
80°-90°	731.6	10.3
90°-100°	305.3	4.3
100°-110°	124.7	1.8
110°-120°	54.9	0.8
120°-130°	25.1	0.4
130°-140°	10.3	0.1
140°-150°	2.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6602.5	92.7
0°-180°	7125.6	100.0



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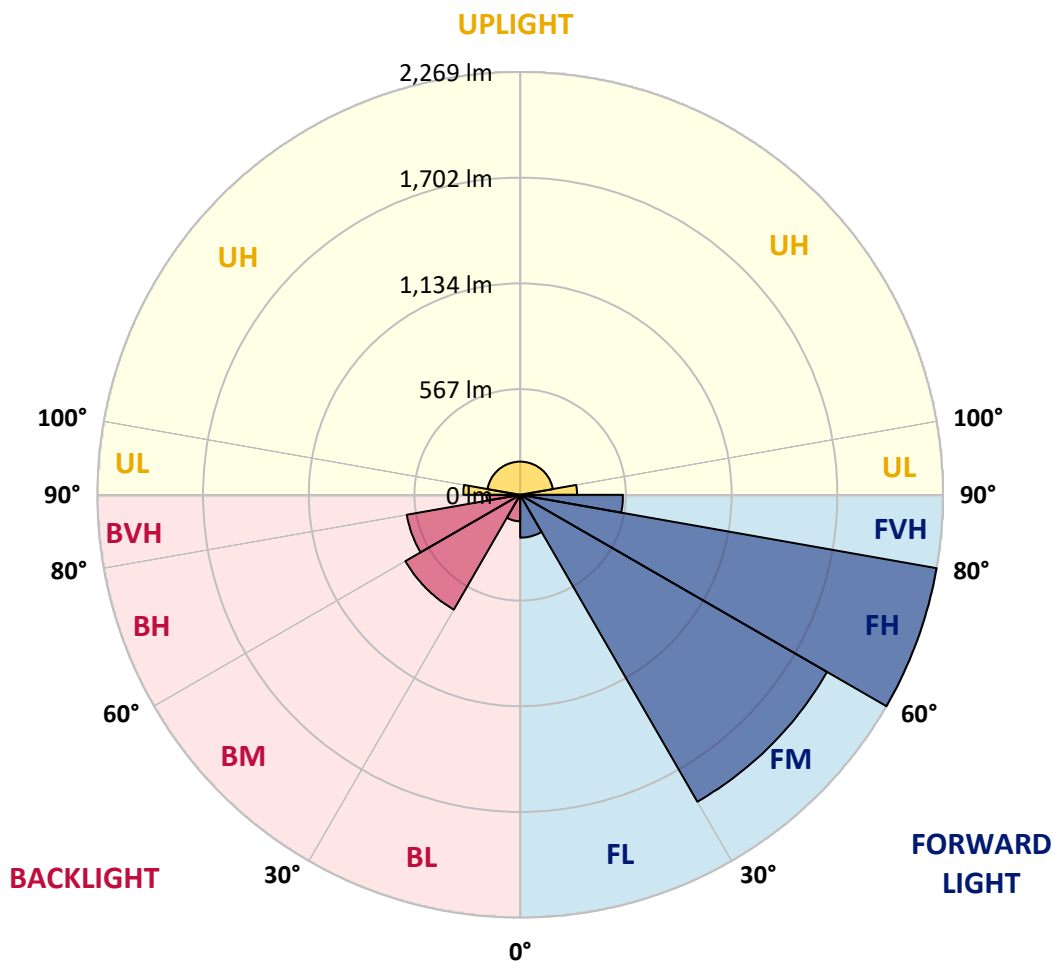
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.9	3.2			
FM (30°-60°)	1901.4	26.7			
FH (60°-80°)	2268.8	31.8			G2/5000
FVH (80°-90°)	551.2	7.7			G4/750
BL (0°-30°)	142.0	2.0	B1/500		
BM (30°-60°)	711.3	10.0	B1/1000		
BH (60°-80°)	617.5	8.7	B2/1000		G2/1000
BVH (80°-90°)	180.4	2.5			G2/225
UL (90°-100°)	305.3	4.3		U3/500	
UH (100°-180°)	177.9	2.5		U3/500	

**BUG Rating: B2-U3-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
2.5°	245.0	245.0	244.2	244.2	241.6	238.9	237.2	232.9	230.2	230.2	226.8
5°	271.1	271.1	270.2	268.6	265.0	260.7	255.5	249.4	244.2	243.4	237.2
7.5°	303.3	303.3	301.6	298.1	292.8	286.6	279.8	271.1	263.3	261.5	252.9
10°	343.2	343.2	340.5	335.3	328.4	320.6	311.1	298.9	288.4	287.5	275.4
12.5°	393.5	391.0	389.2	380.6	371.0	360.6	349.4	334.4	324.1	324.1	307.6
15°	450.9	450.9	444.0	432.8	420.5	406.7	394.4	379.8	367.5	366.7	347.6
17.5°	514.4	513.6	505.7	491.8	475.3	461.4	445.6	429.2	415.3	415.3	392.6
20°	587.4	585.6	575.3	556.9	536.9	521.3	503.9	484.8	470.1	470.1	444.9
22.5°	670.8	667.4	654.2	629.1	609.1	586.6	566.6	547.3	531.7	533.6	504.8
25°	764.5	760.2	743.7	711.5	682.9	656.0	636.0	616.1	604.7	600.3	576.9
27.5°	870.6	862.0	843.7	802.8	762.0	729.1	708.1	693.4	682.9	679.5	652.4
30°	987.1	978.3	953.2	901.9	848.0	806.3	786.3	775.1	769.8	765.4	738.5
32.5°	1119.9	1110.5	1075.7	1011.4	941.9	889.7	870.6	865.3	865.3	862.0	835.1
35°	1264.3	1252.1	1210.3	1129.6	1041.9	979.2	960.9	963.6	964.5	961.8	939.3
37.5°	1418.1	1404.9	1355.5	1259.1	1149.6	1074.8	1056.5	1068.8	1086.1	1076.6	1053.2
40°	1576.2	1563.9	1510.9	1393.7	1262.5	1174.8	1156.5	1180.8	1208.6	1200.9	1174.8
42.5°	1733.4	1728.2	1661.3	1536.2	1383.3	1279.8	1266.8	1304.2	1342.4	1337.1	1308.6
45°	1904.5	1889.0	1823.7	1684.0	1512.7	1401.5	1386.8	1437.2	1489.3	1484.1	1455.3
47.5°	2058.3	2043.6	1981.9	1833.4	1643.1	1522.3	1512.7	1580.5	1646.6	1640.5	1611.7
50°	2187.8	2186.1	2134.1	1980.3	1780.4	1648.3	1647.4	1732.7	1813.4	1811.6	1775.1
52.5°	2312.1	2309.5	2261.8	2122.7	1917.6	1775.1	1782.1	1893.3	1989.7	1989.7	1941.1
55°	2407.6	2406.7	2379.0	2258.2	2053.2	1915.8	1935.8	2058.3	2168.8	2168.8	2120.1
57.5°	2474.7	2473.8	2470.2	2378.2	2183.5	2049.8	2081.0	2220.9	2340.8	2343.4	2279.1
60°	2490.2	2498.0	2532.9	2474.7	2299.9	2171.4	2214.0	2370.3	2493.8	2498.0	2410.3
62.5°	2462.4	2474.7	2545.0	2532.9	2388.6	2280.8	2333.8	2494.6	2613.6	2620.5	2499.9
65°	2370.3	2395.5	2503.2	2543.2	2444.2	2360.7	2431.2	2585.0	2684.0	2693.6	2528.5
66°	2320.9	2347.7	2471.1	2533.7	2456.3	2383.4	2457.3	2610.1	2698.8	2704.8	2518.8
67.5°	2227.0	2253.8	2399.8	2496.3	2456.3	2405.1	2479.0	2627.5	2696.2	2698.8	2485.0
70°	2025.4	2067.1	2230.4	2379.9	2405.9	2393.9	2478.1	2601.4	2632.8	2624.0	2355.5
72.5°	1803.7	1827.2	2006.3	2209.7	2297.3	2320.9	2417.2	2503.2	2482.3	2469.4	2161.0
75°	1512.7	1546.6	1742.2	1974.1	2108.0	2180.0	2283.4	2313.9	2261.8	2233.9	1904.5
77.5°	1263.3	1277.3	1459.7	1697.7	1874.3	1972.4	2069.7	2079.2	1971.5	1948.1	1606.6
80°	1004.5	1018.4	1186.0	1414.6	1605.7	1735.2	1820.3	1795.2	1659.6	1637.0	1328.6
82.5°	784.6	803.8	932.4	1150.4	1335.5	1472.0	1537.1	1496.2	1367.6	1335.5	1058.4
85°	602.1	611.7	731.6	919.2	1082.6	1207.0	1260.7	1215.5	1077.3	1052.3	831.6
87.5°	458.8	468.3	570.0	717.7	862.0	968.0	1009.7	952.4	840.3	823.7	645.6
90°	350.2	357.2	438.0	564.8	676.0	763.7	792.5	747.2	647.3	632.5	497.0
92.5°	268.6	274.5	337.1	438.0	529.1	603.9	616.1	573.5	496.1	483.1	382.3
95°	205.9	212.9	263.3	342.3	413.6	470.1	478.7	442.2	380.6	370.1	294.6
97.5°	161.7	164.2	206.8	271.1	329.3	368.5	371.9	344.1	291.1	284.1	226.8
100°	129.4	131.2	164.2	214.7	262.5	291.1	292.8	264.1	223.3	218.1	173.8
102.5°	105.1	106.9	132.1	173.0	208.5	232.0	231.1	208.5	173.0	165.9	135.6
105°	86.9	87.8	107.7	140.8	169.4	185.1	184.2	162.5	132.9	128.5	106.0
107.5°	73.0	73.8	88.7	114.8	139.0	152.1	149.5	127.6	103.3	100.8	84.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	61.8	62.5	73.8	95.6	117.3	126.0	122.4	101.7	81.7	78.2	67.8
112.5°	53.9	53.9	62.5	79.9	98.2	106.0	100.8	82.6	64.3	62.5	55.7
115°	46.9	47.8	53.9	67.8	83.5	88.7	83.5	66.0	52.1	50.3	46.1
117.5°	41.7	41.7	46.9	57.3	70.3	73.8	68.6	53.9	42.6	41.7	39.0
120°	37.4	37.4	40.9	48.7	59.1	62.5	57.3	44.2	34.8	33.9	33.0
122.5°	33.9	33.9	35.7	41.7	50.3	52.1	46.9	36.6	29.6	28.7	28.7
125°	30.5	30.5	31.4	35.7	42.6	44.2	39.0	29.6	25.2	24.3	24.3
127.5°	27.8	27.8	27.8	31.4	34.8	36.6	32.2	24.3	20.8	20.8	21.6
130°	25.2	25.2	25.2	26.1	28.7	29.6	26.1	20.0	18.2	18.2	18.2
132.5°	22.5	22.5	21.6	22.5	23.4	23.4	20.0	16.4	15.6	15.6	16.4
135°	20.0	20.0	19.1	19.1	19.1	18.2	15.6	13.0	13.0	13.0	14.0
137.5°	17.3	17.3	16.4	15.6	14.7	13.0	11.3	10.4	10.4	10.4	11.3
140°	14.7	14.7	14.0	12.1	10.4	9.5	7.8	7.8	8.8	8.8	8.8
142.5°	11.3	11.3	10.4	9.5	7.8	6.1	5.2	5.2	6.1	6.1	6.9
145°	8.8	8.8	7.8	6.1	4.3	3.5	2.6	3.5	4.3	4.3	5.2
147.5°	6.1	6.1	5.2	4.3	2.6	0.9	1.7	2.6	3.5	3.5	4.3
150°	3.5	3.5	2.6	1.7	0.0	0.0	0.9	1.7	2.6	2.6	2.6
152.5°	0.9	0.9	0.9	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	0.9	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	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4
2.5°	225.0	223.3	219.8	217.2	213.7	212.0	210.3	208.5	207.7	205.9	205.9
5°	232.9	230.2	224.1	218.9	212.9	208.5	204.2	201.6	199.9	199.0	199.0
7.5°	247.7	243.4	233.6	226.0	217.2	212.0	206.8	201.6	199.0	198.0	198.0
10°	268.6	263.3	250.3	238.9	227.6	219.8	214.7	208.5	205.9	204.2	204.2
12.5°	298.9	290.2	274.5	258.1	243.4	233.6	226.8	222.4	222.4	224.1	223.3
15°	337.1	327.6	305.0	284.1	264.1	251.0	246.8	245.9	245.9	246.8	246.8
17.5°	378.8	365.8	339.6	312.8	289.3	276.3	271.1	269.3	269.3	270.2	271.9
20°	429.2	412.7	379.8	344.9	319.7	304.0	296.4	293.7	295.5	298.9	298.9
22.5°	487.4	469.3	424.9	380.6	351.1	331.0	321.6	318.9	322.3	326.8	327.6
25°	554.3	530.0	474.5	419.7	381.4	356.3	346.7	343.2	348.5	353.7	356.3
27.5°	628.3	597.0	528.4	458.8	408.4	377.9	367.5	366.7	373.6	380.6	383.1
30°	709.9	671.7	585.6	499.5	436.1	397.1	385.8	388.3	396.2	404.9	406.7
32.5°	800.2	755.0	645.6	539.6	457.9	411.9	398.8	404.9	414.5	425.7	427.6
35°	898.5	843.7	709.0	576.9	477.0	423.1	410.2	417.9	428.3	440.4	442.2
37.5°	1005.4	938.4	772.5	609.9	491.8	430.1	416.2	425.7	438.0	449.2	450.9
40°	1116.6	1036.6	835.9	639.6	502.2	434.4	418.8	429.2	441.3	450.1	451.8
42.5°	1242.5	1142.6	897.5	662.9	508.4	435.3	418.8	428.3	440.4	446.5	447.4
45°	1376.4	1254.7	958.4	682.1	510.9	434.4	416.2	426.6	436.1	438.8	439.7
47.5°	1515.4	1369.3	1013.1	693.4	510.9	430.9	412.7	420.5	428.3	427.6	428.3
50°	1669.9	1489.3	1064.4	700.3	507.5	426.6	409.3	415.3	420.5	416.2	417.1
52.5°	1816.0	1608.3	1106.2	703.0	501.3	421.5	405.8	411.0	413.6	407.6	407.6
55°	1961.1	1720.4	1139.9	697.8	493.4	417.1	403.2	408.4	408.4	400.6	400.6
57.5°	2095.7	1816.0	1159.2	687.4	483.9	413.6	401.5	406.7	406.7	396.2	396.2
60°	2199.9	1884.6	1160.0	670.8	472.7	409.3	400.6	406.7	405.8	395.3	394.4
62.5°	2263.5	1915.0	1139.9	647.3	461.4	404.9	399.7	405.8	405.8	394.4	393.5
65°	2263.5	1895.1	1096.6	619.6	448.3	399.7	397.9	405.8	404.1	393.5	391.9
66°	2246.1	1873.3	1073.0	607.3	444.0	397.9	397.1	405.8	404.1	393.5	391.0
67.5°	2198.3	1821.3	1034.8	587.4	433.6	393.5	395.3	403.2	402.4	391.0	389.2
70°	2059.3	1686.5	952.4	551.7	417.9	385.8	390.1	397.1	396.2	385.8	382.3
72.5°	1855.1	1509.2	858.5	513.6	400.6	375.3	380.6	387.4	385.8	377.1	373.6
75°	1614.4	1308.6	756.8	472.7	379.8	361.5	367.5	373.6	371.9	364.1	358.9
77.5°	1354.6	1101.7	656.0	430.1	358.0	344.1	350.2	356.3	352.8	345.8	342.3
80°	1100.1	901.9	560.5	387.4	332.8	324.1	330.1	332.0	329.3	323.2	318.9
82.5°	877.6	725.6	470.1	345.8	305.9	300.7	305.0	305.0	302.4	296.4	291.9
85°	689.0	578.7	395.3	304.0	279.0	275.4	278.0	275.4	271.9	265.9	262.5
87.5°	543.0	464.0	331.0	267.6	249.4	248.6	249.4	243.4	239.8	234.5	231.1
90°	424.0	364.1	276.3	232.9	222.4	221.5	219.8	213.7	205.9	200.7	198.0
92.5°	331.0	292.8	228.4	199.0	193.8	192.9	190.4	182.4	177.2	170.3	167.8
95°	262.5	233.6	189.5	172.0	169.4	168.5	165.1	156.5	149.5	142.6	140.8
97.5°	205.9	185.1	158.1	147.7	146.9	146.0	141.7	132.1	124.2	117.3	116.4
100°	161.7	148.6	132.1	126.9	126.9	126.0	121.6	112.1	102.5	95.6	94.7
102.5°	128.5	120.0	110.3	108.7	108.7	107.7	103.3	95.6	84.4	76.4	76.4
105°	102.5	97.3	92.0	93.0	93.9	93.0	88.7	79.1	67.8	61.8	61.8
107.5°	82.6	79.1	77.3	79.1	79.9	79.9	75.5	65.1	54.7	49.5	49.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	67.0	65.1	65.1	67.0	68.6	68.6	63.4	54.7	44.2	40.0	40.0
112.5°	54.7	53.9	54.7	58.2	59.1	58.2	53.9	45.2	35.7	33.0	33.0
115°	46.1	46.1	46.9	49.5	51.3	49.5	45.2	36.6	28.7	26.9	26.9
117.5°	39.0	39.0	40.0	42.6	43.5	41.7	37.4	29.6	23.4	22.5	22.5
120°	33.0	33.0	33.9	35.7	36.6	34.8	30.5	24.3	19.1	18.2	19.1
122.5°	28.7	28.7	29.6	30.5	31.4	29.6	25.2	19.1	15.6	15.6	15.6
125°	25.2	25.2	25.2	26.1	26.1	24.3	20.8	15.6	12.1	13.0	13.0
127.5°	21.6	21.6	21.6	21.6	21.6	20.0	16.4	12.1	10.4	11.3	11.3
130°	19.1	19.1	18.2	18.2	17.3	16.4	13.0	9.5	8.8	9.5	9.5
132.5°	16.4	16.4	15.6	14.7	14.0	13.0	10.4	6.9	6.9	7.8	7.8
135°	14.0	14.0	13.0	12.1	11.3	9.5	6.9	5.2	5.2	6.1	6.1
137.5°	11.3	11.3	10.4	9.5	7.8	6.9	5.2	3.5	4.3	5.2	5.2
140°	8.8	8.8	7.8	6.9	5.2	3.5	2.6	2.6	2.6	3.5	3.5
142.5°	6.9	6.9	6.1	4.3	2.6	1.7	0.9	0.9	1.7	2.6	2.6
145°	5.2	5.2	4.3	3.5	1.7	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	4.3	3.5	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	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)