

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: P198740

Luminaire Tested: **XNV-AF-01-LED-U-SLL-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SLL-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4415.1 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

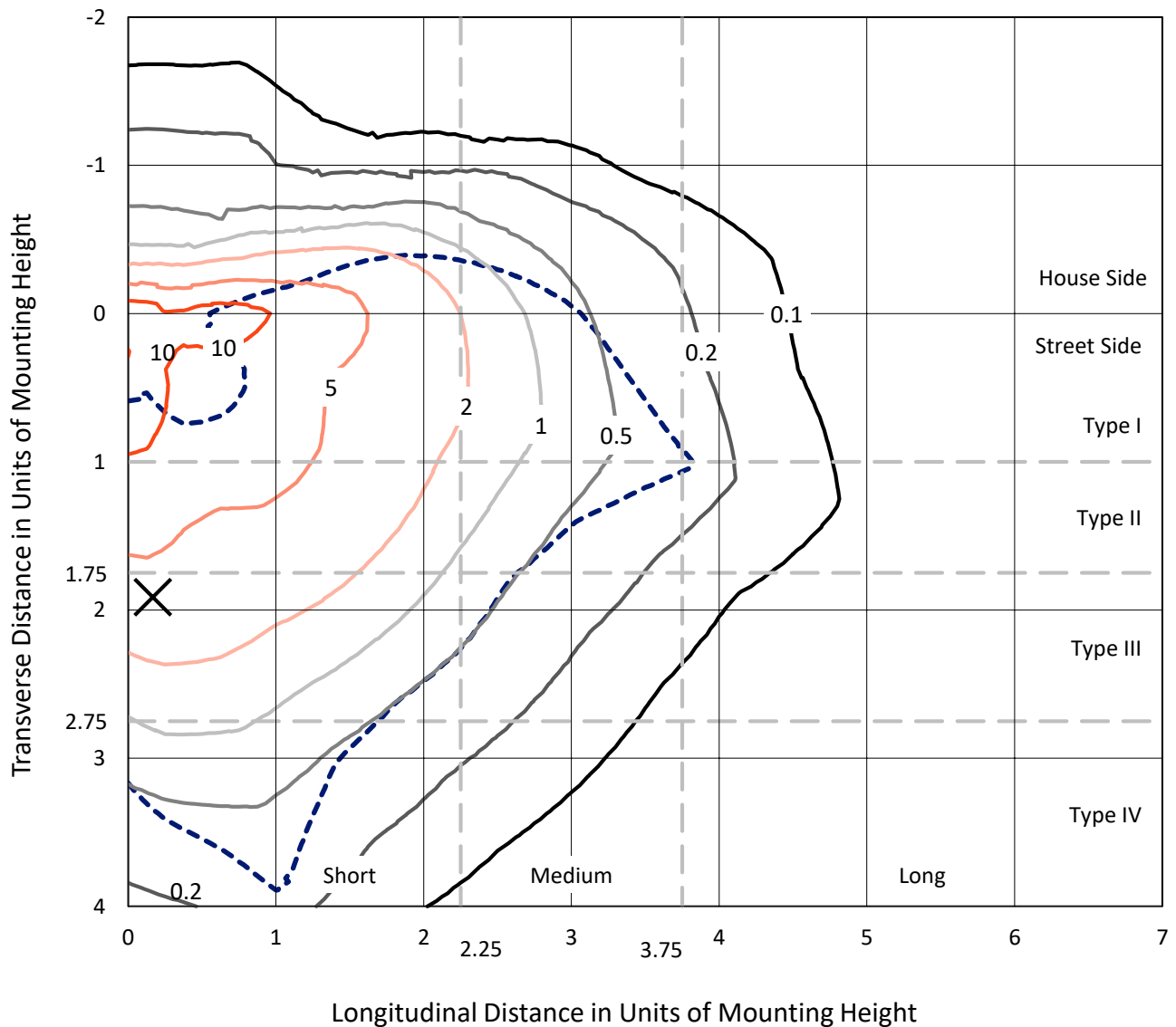
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

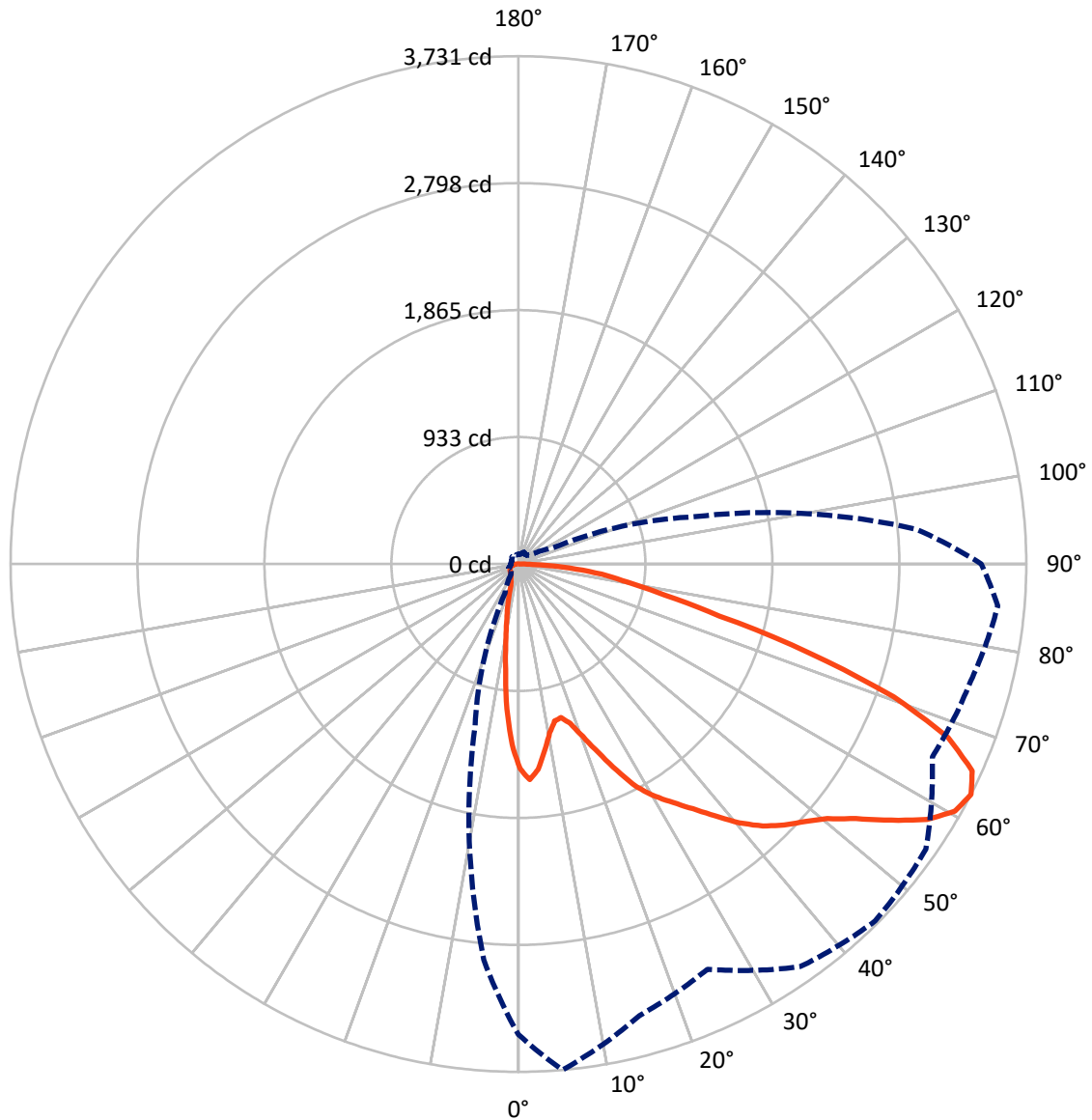
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	782.1	0.0	782.1
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	3632.9	0.0	3632.9
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	4415.1	0.0	4415.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	2.5
10°-20°	199.9	4.5
20°-30°	287.6	6.5
30°-40°	440.4	10.0
40°-50°	643.9	14.6
50°-60°	936.9	21.2
60°-70°	1085.5	24.6
70°-80°	565.9	12.8
80°-90°	145.5	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4415.1	100.0
0°-180°	4415.1	100.0



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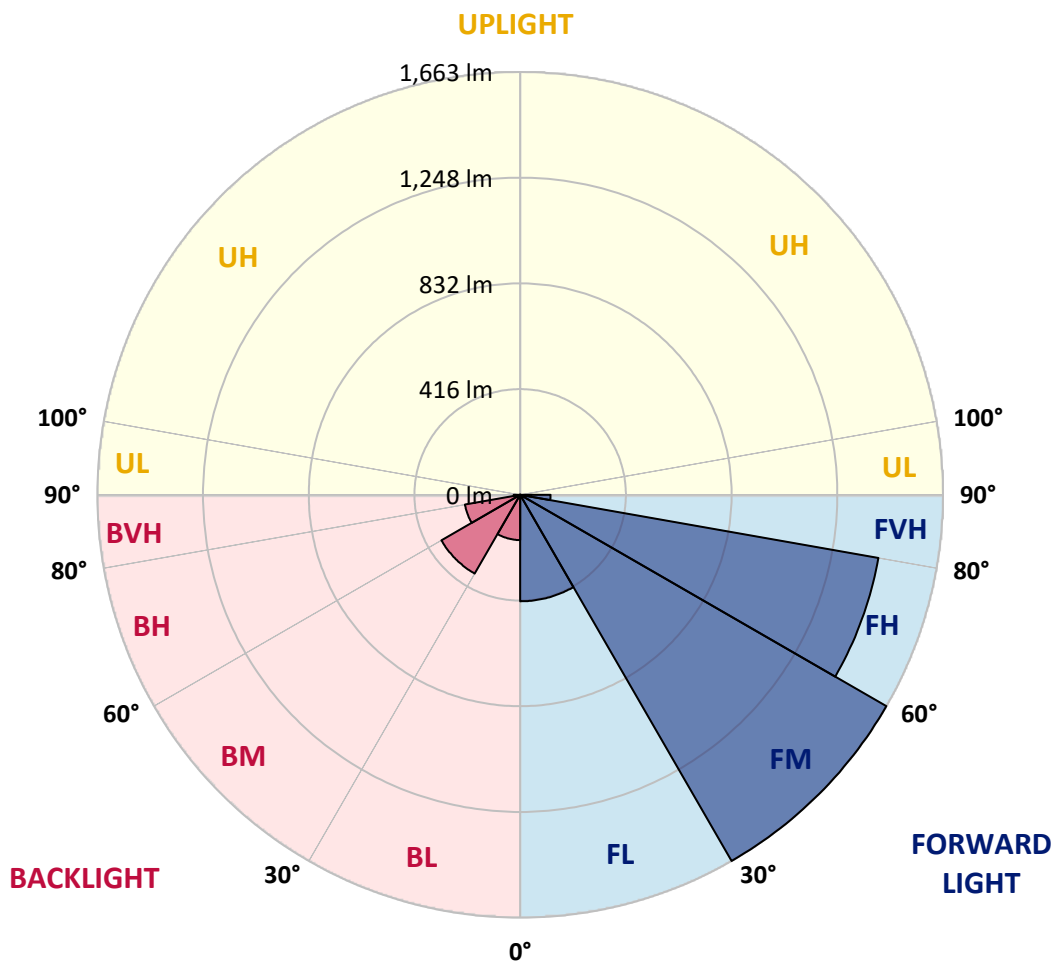
CATALOG NUMBER: XNV-AF-01-LED-U-SLL-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.0	9.5			
FM (30°-60°)	1663.4	37.7			
FH (60°-80°)	1430.9	32.4			G1/1800
FVH (80°-90°)	119.7	2.7			G2/225
BL (0°-30°)	178.0	4.0	B1/500		
BM (30°-60°)	357.9	8.1	B1/1000		
BH (60°-80°)	220.5	5.0	B1/500		G1/500
BVH (80°-90°)	25.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1553.9	1586.8	1624.5	1673.9	1707.5	1720.9	1732.2	1713.2	1695.0	1660.8	1648.6
5°	1451.4	1514.8	1618.8	1717.7	1804.8	1854.7	1870.2	1835.2	1773.1	1683.5	1636.1
7.5°	1299.4	1382.9	1529.2	1674.9	1799.7	1882.9	1889.0	1819.8	1697.6	1550.6	1473.8
10°	1166.5	1260.9	1430.3	1593.2	1725.4	1810.5	1793.9	1697.0	1549.4	1382.2	1295.5
12.5°	1089.3	1183.8	1356.3	1521.8	1646.3	1678.7	1644.7	1563.2	1423.2	1255.8	1168.4
15°	1073.1	1170.4	1330.0	1469.7	1546.8	1526.0	1492.4	1451.1	1351.5	1214.5	1130.1
17.5°	1122.3	1231.1	1364.9	1441.4	1438.3	1388.3	1360.2	1368.2	1351.2	1259.4	1171.0
20°	1223.8	1352.4	1453.6	1433.8	1351.8	1281.8	1265.4	1328.2	1406.6	1371.7	1274.7
22.5°	1357.3	1503.9	1574.6	1455.9	1306.7	1231.1	1228.0	1325.9	1507.4	1541.7	1423.5
25°	1508.0	1679.0	1696.6	1494.9	1301.9	1226.7	1223.8	1360.5	1628.7	1710.1	1590.4
27.5°	1692.5	1855.7	1798.4	1547.1	1323.1	1239.8	1241.8	1419.3	1755.2	1876.5	1778.2
30°	1831.4	1981.1	1861.2	1598.4	1356.9	1262.8	1267.6	1483.1	1823.4	1992.1	1928.4
32.5°	1961.3	2088.5	1921.3	1648.9	1406.6	1297.1	1313.8	1562.5	1905.3	2091.3	2070.1
35°	2105.0	2208.4	1988.2	1703.0	1477.7	1357.3	1381.3	1638.1	1986.7	2190.5	2210.7
37.5°	2268.0	2345.8	2060.9	1779.5	1580.0	1468.7	1482.2	1715.2	2043.3	2300.3	2361.5
40°	2437.7	2499.8	2140.3	1881.6	1729.0	1619.1	1625.6	1814.1	2087.7	2414.0	2507.8
42.5°	2583.4	2631.6	2220.0	2008.4	1899.9	1772.5	1777.9	1920.7	2130.4	2512.0	2624.9
45°	2699.9	2735.4	2295.2	2141.9	2082.3	1963.9	1962.6	2029.2	2187.4	2594.5	2714.9
47.5°	2808.4	2827.2	2379.1	2271.9	2271.6	2210.4	2164.7	2157.3	2263.2	2664.0	2793.4
50°	2932.6	2939.7	2489.9	2403.1	2502.6	2493.0	2408.5	2319.8	2361.5	2742.1	2875.6
52.5°	3105.5	3105.8	2627.1	2531.2	2757.8	2788.2	2690.0	2504.0	2506.8	2894.1	3017.7
55°	3308.7	3322.7	2806.2	2684.5	3024.8	3076.6	2984.2	2722.6	2715.5	3139.3	3248.2
57.5°	3465.9	3540.4	3014.5	2876.2	3274.2	3341.7	3267.1	2949.3	2972.0	3392.2	3438.3
60°	3510.1	3684.6	3222.3	3091.4	3485.1	3586.6	3510.7	3194.1	3222.9	3556.5	3493.1
62.5°	3457.3	3730.9	3433.8	3284.1	3610.3	3707.6	3653.2	3354.5	3427.5	3535.3	3400.6
65°	3300.8	3663.7	3617.7	3366.0	3538.2	3572.8	3558.4	3362.8	3538.6	3335.6	3144.9
67.5°	2935.2	3404.4	3535.6	3190.9	3201.8	3164.7	3145.8	3134.2	3413.7	3013.2	2741.5
70°	2387.1	2925.2	3144.9	2670.4	2589.7	2553.9	2491.8	2645.5	3068.3	2567.3	2256.2
72.5°	1838.8	2237.9	2579.5	2024.4	1856.7	1868.8	1798.4	2022.8	2541.7	1984.7	1722.5
75°	1305.8	1526.0	2059.0	1454.6	1232.5	1231.8	1226.3	1455.9	2005.5	1424.6	1260.3
77.5°	941.1	1098.6	1613.1	973.4	874.5	885.8	867.9	989.5	1563.5	1024.7	933.7
80°	750.6	813.5	1042.6	649.2	651.1	677.4	673.5	676.7	1028.6	742.0	698.2
82.5°	539.4	617.5	797.1	497.5	430.6	458.4	463.8	502.0	725.7	524.7	460.3
85°	276.6	376.4	733.4	430.9	269.2	223.1	256.8	396.0	630.3	314.4	224.4
87.5°	53.8	104.3	537.5	239.5	121.0	61.2	100.9	167.8	366.5	57.0	27.8
90°	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1627.8	1586.8	1548.4	1508.8	1478.0	1440.5	1403.7	1371.7	1340.7	1320.1	1326.6
5°	1588.1	1488.2	1398.6	1315.3	1266.7	1208.1	1155.9	1112.0	1078.2	1056.4	1069.5
7.5°	1407.3	1272.1	1154.0	1044.2	975.1	899.2	838.4	795.4	769.3	754.5	775.9
10°	1222.2	1070.4	937.9	823.7	755.4	691.1	636.1	590.7	555.4	538.8	547.4
12.5°	1089.6	921.0	782.0	705.2	646.6	589.0	532.0	478.8	434.0	413.6	409.4
15°	1040.0	840.7	698.8	613.1	554.7	492.0	430.6	373.6	331.0	313.4	309.5
17.5°	1061.8	823.4	649.5	548.0	463.5	387.3	318.2	264.4	233.0	223.1	224.1
20°	1138.3	829.7	609.8	481.1	376.8	286.5	217.4	180.2	166.7	164.5	167.2
22.5°	1243.3	856.0	581.0	423.5	300.2	208.4	161.6	144.0	140.6	140.2	142.8
25°	1381.9	907.3	561.8	372.3	237.2	165.2	140.9	130.9	128.1	128.7	131.2
27.5°	1545.2	972.2	549.3	328.2	195.0	147.2	131.6	123.0	120.0	120.7	122.7
30°	1694.4	1029.2	530.7	294.8	175.1	140.9	126.4	117.8	114.0	114.0	115.3
32.5°	1827.8	1078.5	509.0	269.9	156.8	126.4	114.6	107.9	105.0	106.0	106.6
35°	1946.3	1104.4	492.0	255.1	142.1	116.5	104.6	97.6	93.8	94.4	95.4
37.5°	2062.8	1114.3	480.8	247.1	131.6	110.5	99.5	93.8	89.6	89.0	88.7
40°	2173.6	1112.0	470.3	244.9	124.5	106.0	96.4	91.2	87.1	86.1	85.8
42.5°	2269.3	1104.7	460.3	238.8	119.7	102.8	93.8	89.3	85.1	83.9	83.3
45°	2356.7	1100.3	449.5	227.6	122.2	101.5	92.5	87.7	83.9	82.2	81.6
47.5°	2453.6	1116.2	437.3	215.4	121.6	101.8	92.5	87.1	83.3	81.6	81.0
50°	2569.2	1170.4	422.3	198.8	115.9	108.8	92.2	86.1	82.6	81.6	80.3
52.5°	2732.5	1258.0	401.4	177.4	111.4	116.2	91.9	84.5	81.6	80.0	78.5
55°	2956.2	1345.8	374.5	154.6	104.3	111.1	92.5	82.6	79.4	77.7	75.9
57.5°	3139.6	1412.4	340.6	135.7	98.0	105.0	91.6	80.3	76.8	75.2	73.7
60°	3127.9	1418.7	308.3	123.6	94.1	94.4	93.8	78.8	74.6	73.3	72.0
62.5°	2934.1	1339.7	278.1	117.4	91.2	86.1	95.7	76.8	72.3	71.1	70.1
65°	2611.8	1155.6	262.2	117.4	88.7	81.6	83.6	74.3	70.1	68.8	68.2
67.5°	2203.0	928.6	247.1	120.0	85.1	78.5	75.9	71.7	67.8	66.6	66.0
70°	1765.7	730.8	236.6	118.8	81.9	74.9	71.7	68.2	64.3	64.0	63.4
72.5°	1385.2	587.1	231.8	118.8	77.1	70.8	67.5	65.0	61.2	60.9	59.8
75°	1109.8	440.8	212.0	116.5	72.3	65.3	62.4	60.1	56.4	56.7	56.1
77.5°	859.5	311.8	177.1	105.0	66.3	59.2	57.0	55.3	50.9	51.2	51.2
80°	672.3	203.0	137.3	87.1	59.2	52.2	50.5	49.3	44.5	45.1	45.1
82.5°	460.6	120.7	99.5	70.1	50.9	44.5	44.2	42.2	37.1	37.4	38.1
85°	251.6	79.4	66.3	51.9	40.0	36.2	35.5	34.6	29.8	29.8	30.1
87.5°	46.4	42.6	39.1	34.3	26.9	25.9	25.0	25.9	22.4	21.8	21.8
90°	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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1311.5	1289.4	1274.1	1260.6	1228.3	1230.5	1235.0	1241.5	1221.2	1231.8	1244.9
5°	1056.4	1038.1	1024.4	1002.9	957.8	941.7	931.5	927.1	896.9	903.4	917.5
7.5°	778.9	778.6	773.8	749.7	695.3	662.4	640.6	633.8	615.3	622.3	643.7
10°	548.4	554.1	551.9	530.4	481.8	458.1	453.3	466.8	467.1	480.8	517.6
12.5°	396.3	393.1	390.3	372.7	336.1	332.3	343.2	361.7	366.2	380.9	419.3
15°	295.7	288.1	286.5	272.7	248.7	252.3	260.2	269.9	270.2	280.4	312.1
17.5°	221.9	221.9	224.4	215.4	198.1	196.5	192.4	189.9	186.0	190.2	207.5
20°	172.3	180.2	186.6	181.5	165.8	158.1	150.2	145.1	142.1	142.5	147.6
22.5°	147.6	154.0	162.3	159.8	146.6	136.7	131.6	128.1	125.8	125.8	128.7
25°	135.1	139.2	146.9	145.7	134.4	126.4	122.2	118.8	116.2	115.9	118.8
27.5°	125.2	127.8	132.9	132.2	120.7	115.6	113.0	110.8	109.1	108.8	111.7
30°	116.2	117.4	120.0	119.1	110.5	105.4	104.3	103.4	102.4	102.8	106.9
32.5°	108.2	109.1	110.8	109.5	101.2	96.7	95.0	93.8	92.9	93.8	98.6
35°	99.2	102.1	104.0	103.4	94.4	89.0	85.5	82.2	81.0	81.9	87.4
37.5°	91.6	96.4	98.9	98.3	89.0	82.6	78.2	77.4	77.4	78.8	84.2
40°	88.7	92.2	94.4	93.5	84.2	77.7	75.2	74.3	74.6	75.9	81.6
42.5°	86.1	89.3	89.9	88.1	78.8	74.6	72.9	71.7	72.3	74.0	79.7
45°	83.9	86.4	86.1	83.3	74.3	71.4	71.4	70.4	70.8	72.0	78.2
47.5°	82.2	83.6	82.9	80.0	71.1	68.8	69.8	69.8	70.4	71.4	77.4
50°	79.7	80.7	80.0	77.4	68.5	66.6	67.5	68.8	69.5	70.4	75.9
52.5°	77.1	77.7	77.4	74.9	66.0	64.7	64.7	66.0	67.2	68.5	73.3
55°	74.6	75.2	75.6	73.7	64.0	62.7	62.4	62.4	63.7	65.7	70.8
57.5°	72.6	72.6	73.3	72.0	62.1	60.5	58.9	59.2	60.9	62.4	67.5
60°	70.4	70.8	71.7	70.4	59.5	57.0	55.8	57.3	57.9	59.5	65.0
62.5°	68.5	68.5	69.2	68.2	57.3	54.7	53.8	55.3	55.3	57.0	62.4
65°	66.9	66.6	66.6	66.3	55.0	52.5	51.9	52.5	52.8	54.4	59.8
67.5°	65.7	64.0	64.0	64.7	52.8	50.2	49.9	49.9	50.2	52.2	57.0
70°	62.7	61.5	61.2	63.4	50.5	47.4	47.4	46.7	47.4	48.4	53.5
72.5°	59.5	58.6	58.3	61.5	48.4	44.2	43.6	43.2	43.6	44.5	49.3
75°	55.3	54.7	55.3	60.1	46.1	40.6	39.7	39.4	39.4	39.7	44.8
77.5°	50.5	49.9	54.7	56.1	44.8	36.5	35.5	34.9	34.3	34.3	40.0
80°	44.8	44.5	52.8	47.4	42.9	32.0	30.4	29.5	28.8	28.5	34.3
82.5°	39.1	38.5	45.1	37.1	35.5	26.3	24.0	22.1	21.2	21.2	26.3
85°	32.0	31.7	35.5	27.2	24.7	19.2	16.0	14.4	13.1	13.1	17.0
87.5°	23.3	22.7	22.1	16.4	12.5	8.6	6.0	5.7	5.1	4.8	7.1
90°	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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1264.5	1291.1	1341.3	1382.6	1437.7	1481.8	1532.1	1553.9
5°	943.4	985.3	1062.1	1127.8	1218.6	1302.8	1398.9	1451.4
7.5°	676.7	738.8	797.1	879.0	992.7	1105.7	1229.9	1299.4
10°	559.9	616.8	666.8	725.1	812.7	939.9	1088.1	1166.5
12.5°	463.8	525.3	578.2	640.6	714.2	829.1	998.1	1089.3
15°	355.7	422.6	485.9	561.2	651.4	782.7	971.2	1073.1
17.5°	243.6	315.3	393.4	485.3	594.1	763.1	996.9	1122.3
20°	165.5	218.0	302.8	411.6	542.6	753.9	1053.1	1223.8
22.5°	136.1	159.8	223.4	342.5	500.3	764.1	1144.7	1357.3
25°	124.8	137.7	173.8	281.7	468.0	791.4	1268.7	1508.0
27.5°	117.8	128.7	152.4	238.1	438.2	828.5	1419.3	1692.5
30°	113.6	123.9	143.7	215.7	411.0	860.5	1549.1	1831.4
32.5°	104.3	112.0	128.4	203.0	391.5	886.4	1663.3	1961.3
35°	93.2	102.4	115.9	194.7	390.9	898.6	1770.8	2105.0
37.5°	89.0	98.0	107.9	190.2	394.7	908.8	1902.5	2268.0
40°	86.4	94.4	102.4	189.6	397.9	916.8	2031.2	2437.7
42.5°	84.2	92.2	101.5	185.1	396.6	927.7	2145.1	2583.4
45°	83.6	91.6	103.7	178.3	396.3	944.7	2235.7	2699.9
47.5°	82.9	95.0	103.1	170.9	395.1	980.5	2337.7	2808.4
50°	82.2	101.5	98.6	160.7	385.4	1041.7	2475.1	2932.6
52.5°	81.9	102.4	93.8	146.6	368.2	1132.2	2676.1	3105.5
55°	80.7	97.3	85.5	128.1	343.2	1229.9	2891.6	3308.7
57.5°	77.7	86.7	80.7	109.8	307.3	1298.0	3050.7	3465.9
60°	84.8	74.6	77.4	100.6	264.4	1310.2	3057.7	3510.1
62.5°	81.0	67.8	74.3	97.3	234.4	1230.8	2917.9	3457.3
65°	64.7	64.3	71.4	100.6	229.9	1053.1	2681.6	3300.8
67.5°	58.9	61.8	68.5	104.3	232.7	829.7	2334.0	2935.2
70°	55.0	58.6	64.7	107.9	237.8	653.7	1879.1	2387.1
72.5°	51.2	54.1	60.9	111.4	234.4	515.7	1503.9	1838.8
75°	46.4	49.0	55.3	102.1	201.0	379.0	1195.0	1305.8
77.5°	41.0	43.2	48.7	80.7	151.1	263.8	895.1	941.1
80°	35.2	36.2	40.3	58.9	98.6	157.8	681.2	750.6
82.5°	27.8	28.1	30.7	43.2	61.5	100.9	472.5	539.4
85°	17.9	18.6	19.8	30.4	41.3	64.7	241.4	276.6
87.5°	6.0	7.1	7.1	14.7	20.2	35.8	74.0	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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