

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: P271251

Luminaire Tested: **XNV-AF-01-LED-U-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271251
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-7027-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 3750.2 lumens
Efficiency: N/A
Efficacy: 85.2 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

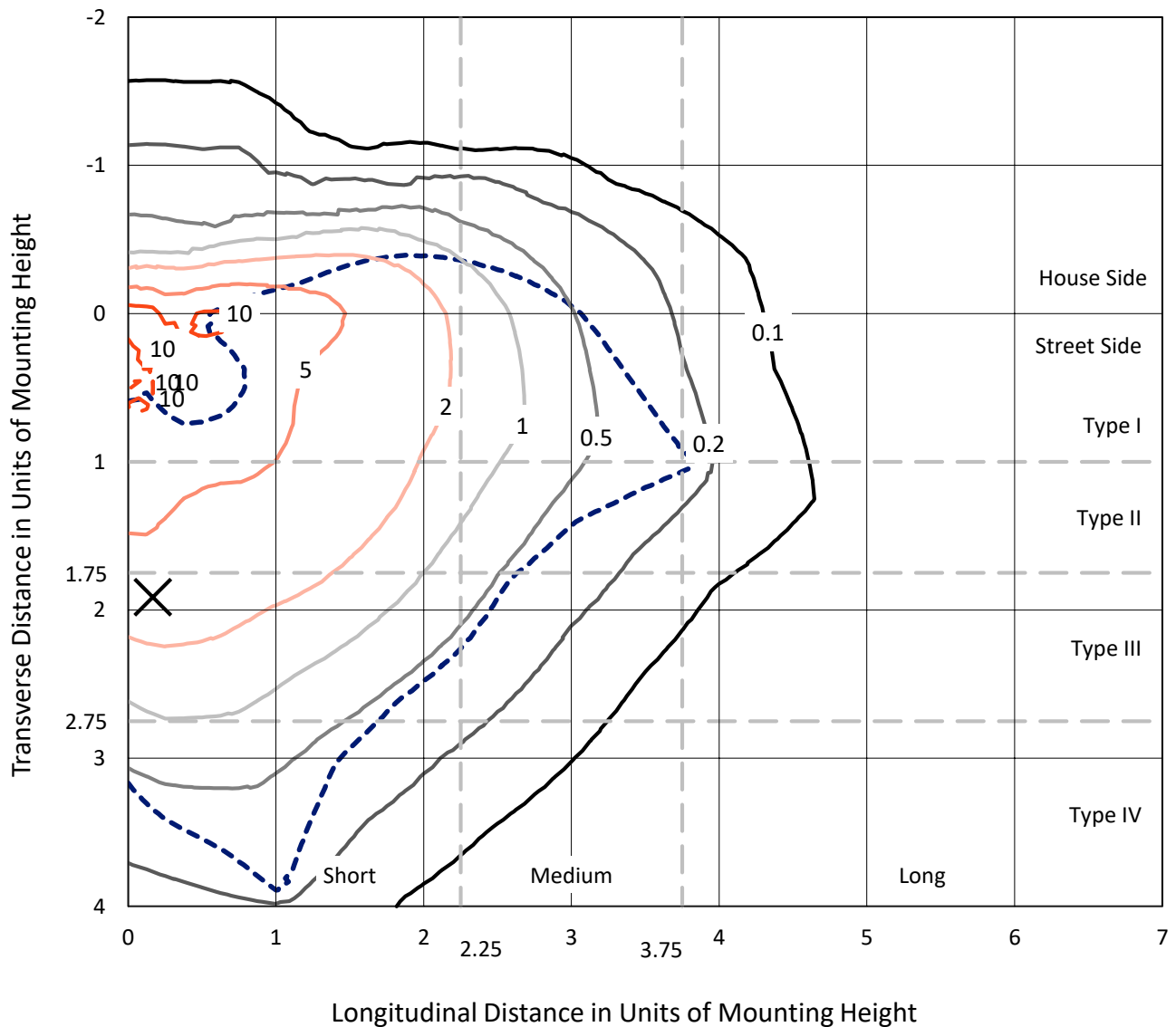
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

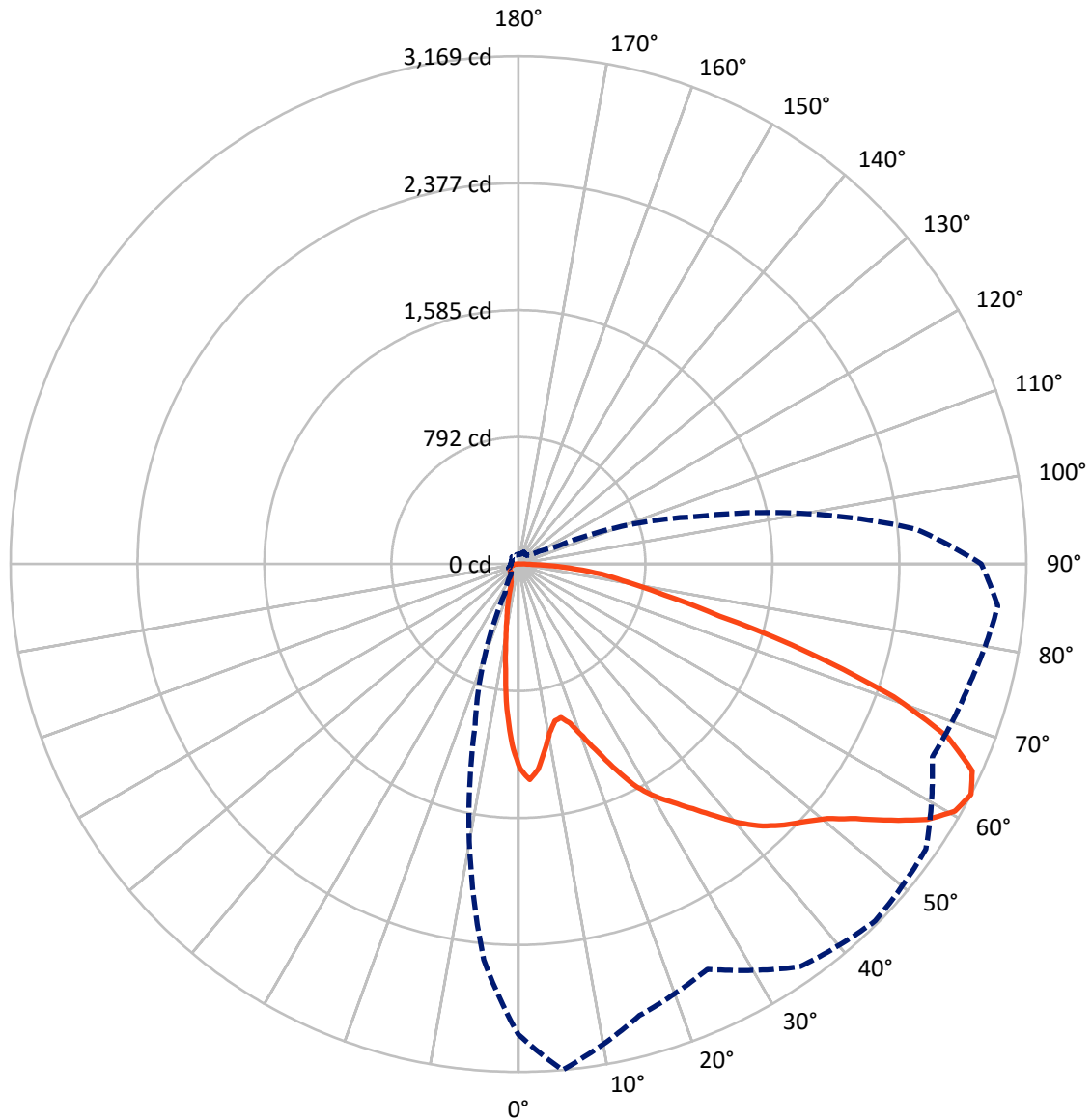
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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
House Side	Lumens	664.4	0.0	664.4
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	3085.9	0.0	3085.9
	% Fixture	82.3	0.0	82.3
Total	Lumens	3750.2	0.0	3750.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	2.5
10°-20°	169.8	4.5
20°-30°	244.3	6.5
30°-40°	374.1	10.0
40°-50°	547.0	14.6
50°-60°	795.8	21.2
60°-70°	922.1	24.6
70°-80°	480.7	12.8
80°-90°	123.6	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°	3750.2	100.0
0°-180°	3750.2	100.0



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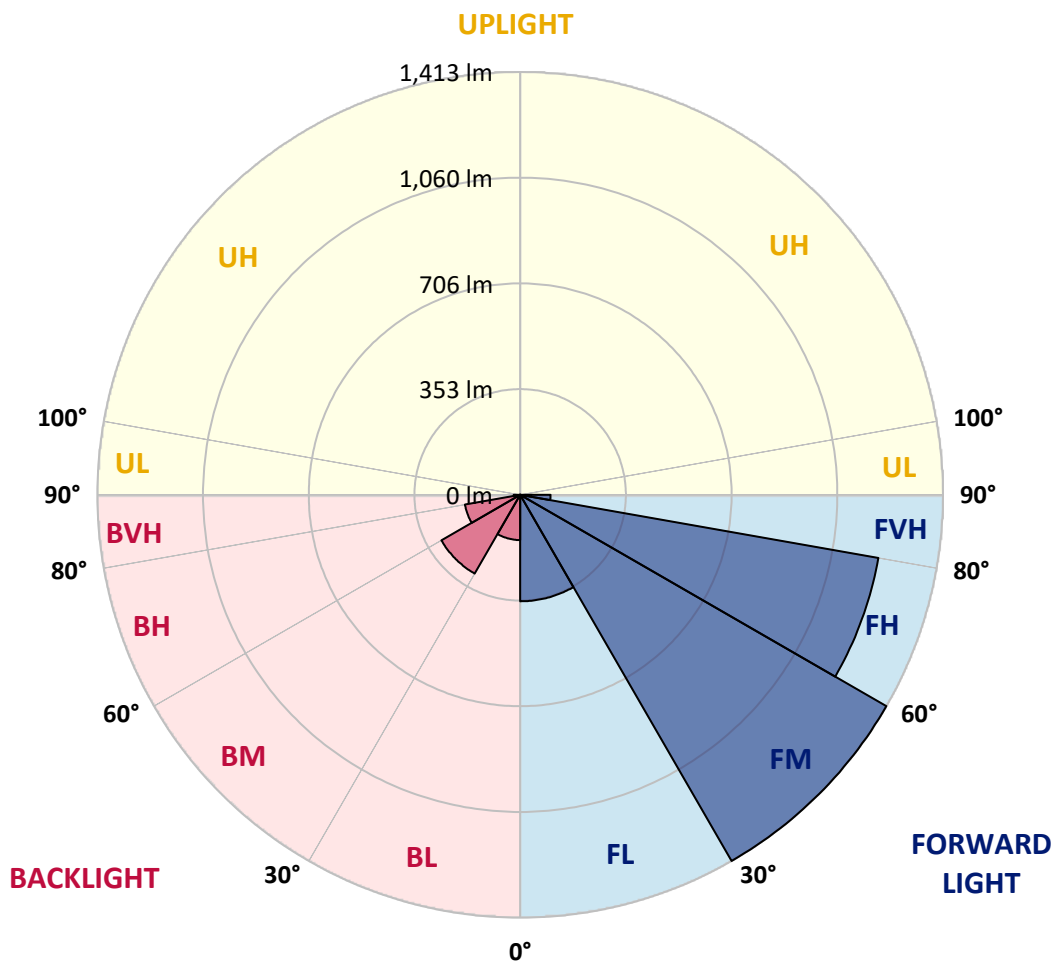
CATALOG NUMBER: XNV-AF-01-LED-U-SLL-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.9	9.5			
FM	(30°-60°)	1412.9	37.7			
FH	(60°-80°)	1215.4	32.4			G1/1800
FVH	(80°-90°)	101.6	2.7			G2/225
BL	(0°-30°)	151.2	4.0	B1/500		
BM	(30°-60°)	304.0	8.1	B1/1000		
BH	(60°-80°)	187.3	5.0	B1/500		G1/500
BVH	(80°-90°)	21.9	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°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1319.9	1347.8	1379.9	1421.8	1450.4	1461.8	1471.3	1455.3	1439.8	1410.7	1400.4
5°	1232.8	1286.7	1375.0	1459.0	1533.0	1575.4	1588.6	1558.9	1506.1	1430.0	1389.8
7.5°	1103.7	1174.7	1298.9	1422.6	1528.6	1599.4	1604.6	1545.9	1442.0	1317.2	1251.9
10°	990.8	1071.0	1214.9	1353.2	1465.7	1538.0	1523.7	1441.4	1316.0	1174.2	1100.5
12.5°	925.3	1005.6	1152.0	1292.8	1398.4	1425.9	1397.0	1327.8	1208.8	1066.6	992.4
15°	911.4	994.2	1129.8	1248.4	1314.0	1296.3	1267.7	1232.6	1148.0	1031.7	959.8
17.5°	953.3	1045.7	1159.4	1224.4	1221.8	1179.3	1155.4	1162.1	1147.8	1069.7	994.7
20°	1039.5	1148.8	1234.8	1217.9	1148.4	1088.7	1074.8	1128.2	1194.7	1165.1	1082.7
22.5°	1153.0	1277.4	1337.5	1236.6	1109.9	1045.7	1043.0	1126.3	1280.4	1309.5	1209.2
25°	1281.0	1426.1	1441.2	1269.8	1105.9	1041.9	1039.5	1155.6	1383.5	1452.6	1350.8
27.5°	1437.6	1576.3	1527.6	1314.1	1123.8	1053.2	1054.7	1205.6	1490.8	1594.0	1510.5
30°	1555.7	1682.9	1580.8	1357.7	1152.6	1072.7	1076.8	1259.8	1548.8	1692.0	1638.0
32.5°	1665.9	1774.0	1632.0	1400.5	1194.7	1101.9	1116.0	1327.2	1618.4	1776.4	1758.4
35°	1788.0	1875.9	1688.9	1446.6	1255.1	1153.0	1173.2	1391.4	1687.5	1860.7	1877.8
37.5°	1926.4	1992.6	1750.5	1511.6	1342.2	1247.6	1259.0	1457.0	1735.6	1954.0	2005.8
40°	2070.7	2123.4	1818.0	1598.4	1468.5	1375.3	1380.8	1541.0	1773.4	2050.6	2130.2
42.5°	2194.3	2235.4	1885.7	1706.1	1613.7	1505.6	1510.2	1631.5	1809.5	2133.7	2229.8
45°	2293.4	2323.5	1949.6	1819.3	1768.9	1668.2	1667.1	1723.7	1858.0	2203.8	2306.0
47.5°	2385.4	2401.4	2020.8	1929.7	1929.5	1877.5	1838.7	1832.5	1922.5	2262.8	2372.8
50°	2491.0	2497.0	2114.9	2041.3	2125.7	2117.7	2045.9	1970.5	2005.8	2329.1	2442.6
52.5°	2637.9	2638.1	2231.6	2150.1	2342.5	2368.3	2284.8	2126.8	2129.3	2458.3	2563.4
55°	2810.4	2822.5	2383.7	2280.3	2569.3	2613.3	2534.7	2312.5	2306.7	2666.7	2759.1
57.5°	2943.9	3007.3	2560.6	2443.1	2781.2	2838.5	2775.1	2505.2	2524.4	2881.5	2920.6
60°	2981.6	3129.8	2737.0	2625.8	2960.4	3046.5	2982.1	2713.2	2737.7	3020.9	2967.1
62.5°	2936.6	3169.1	2916.7	2789.5	3066.6	3149.3	3103.0	2849.3	2911.3	3003.0	2888.5
65°	2803.7	3112.1	3072.9	2859.1	3005.5	3034.8	3022.5	2856.4	3005.6	2833.3	2671.3
67.5°	2493.2	2891.7	3003.3	2710.5	2719.7	2688.1	2672.1	2662.2	2899.6	2559.5	2328.6
70°	2027.7	2484.7	2671.3	2268.3	2199.8	2169.2	2116.5	2247.1	2606.3	2180.7	1916.4
72.5°	1561.9	1901.0	2191.1	1719.5	1577.1	1587.5	1527.6	1718.2	2158.9	1685.8	1463.2
75°	1109.1	1296.3	1748.9	1235.6	1046.9	1046.3	1041.8	1236.6	1703.5	1209.9	1070.5
77.5°	799.4	933.2	1370.2	826.9	742.9	752.4	737.1	840.5	1328.1	870.4	793.2
80°	637.6	690.9	885.5	551.4	553.0	575.4	572.1	574.8	873.6	630.3	593.1
82.5°	458.1	524.5	677.1	422.6	365.7	389.3	393.9	426.3	616.4	445.6	391.0
85°	234.9	319.7	623.0	366.0	228.7	189.5	218.1	336.3	535.4	267.1	190.6
87.5°	45.6	88.7	456.6	203.3	102.8	51.9	85.7	142.6	311.4	48.4	23.6
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°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1382.8	1347.8	1315.3	1281.5	1255.4	1223.6	1192.3	1165.1	1138.8	1121.4	1126.8
5°	1349.0	1264.2	1188.0	1117.3	1076.0	1026.3	981.8	944.6	915.8	897.2	908.5
7.5°	1195.4	1080.7	980.2	886.9	828.2	763.7	712.1	675.7	653.3	640.9	659.1
10°	1038.1	909.3	796.6	699.6	641.7	587.0	540.3	501.7	471.8	457.6	465.0
12.5°	925.7	782.3	664.2	599.0	549.3	500.4	451.8	406.8	368.8	351.2	347.7
15°	883.5	714.1	593.6	520.7	471.3	417.9	365.7	317.3	281.2	266.2	262.9
17.5°	902.0	699.4	551.6	465.5	393.7	329.0	270.3	224.5	197.9	189.5	190.4
20°	966.9	704.8	518.1	408.6	320.1	243.4	184.6	153.2	141.7	139.7	141.9
22.5°	1056.0	727.1	493.4	359.7	255.1	177.1	137.4	122.3	119.4	119.0	121.4
25°	1173.8	770.6	477.2	316.3	201.5	140.3	119.7	111.2	108.8	109.4	111.5
27.5°	1312.6	825.8	466.6	278.7	165.6	125.0	111.7	104.5	102.0	102.4	104.2
30°	1439.3	874.2	450.8	250.4	148.7	119.7	107.3	100.2	96.7	96.7	97.8
32.5°	1552.6	916.1	432.4	229.2	133.3	107.3	97.3	91.6	89.2	90.0	90.5
35°	1653.2	938.1	417.9	216.8	120.7	99.0	88.9	83.0	79.7	80.2	81.0
37.5°	1752.2	946.5	408.4	209.9	111.7	93.9	84.6	79.7	76.1	75.5	75.3
40°	1846.2	944.6	399.4	208.0	105.8	90.0	81.8	77.6	74.0	73.1	72.9
42.5°	1927.7	938.4	391.0	202.8	101.7	87.2	79.7	75.8	72.4	71.2	70.6
45°	2001.9	934.5	381.8	193.3	103.8	86.1	78.6	74.5	71.2	69.9	69.3
47.5°	2084.2	948.2	371.4	183.0	103.3	86.4	78.6	74.0	70.6	69.3	68.8
50°	2182.3	994.2	358.7	168.8	98.5	92.4	78.3	73.1	70.2	69.3	68.2
52.5°	2321.0	1068.7	340.9	150.6	94.6	98.8	78.1	71.8	69.3	68.0	66.7
55°	2511.1	1143.2	318.1	131.3	88.7	94.3	78.6	70.2	67.5	66.0	64.5
57.5°	2666.9	1199.6	289.3	115.3	83.3	89.2	77.8	68.2	65.2	63.9	62.5
60°	2656.8	1205.2	261.9	104.9	79.9	80.2	79.7	67.0	63.4	62.3	61.2
62.5°	2492.3	1138.0	236.3	99.8	77.6	73.1	81.2	65.2	61.4	60.4	59.6
65°	2218.5	981.6	222.7	99.8	75.3	69.3	71.0	63.2	59.6	58.5	57.9
67.5°	1871.3	788.8	209.9	102.0	72.4	66.7	64.5	60.9	57.6	56.6	56.1
70°	1499.9	620.8	201.0	100.9	69.6	63.6	60.9	57.9	54.6	54.3	53.9
72.5°	1176.6	498.6	196.9	100.9	65.5	60.0	57.4	55.2	51.9	51.7	50.8
75°	942.7	374.5	180.0	99.0	61.4	55.4	53.0	51.2	47.9	48.1	47.6
77.5°	730.1	264.8	150.3	89.2	56.2	50.3	48.4	47.0	43.2	43.5	43.5
80°	571.1	172.4	116.7	74.0	50.3	44.3	42.9	42.0	37.8	38.4	38.4
82.5°	391.3	102.4	84.6	59.6	43.2	37.8	37.5	35.9	31.5	31.8	32.3
85°	213.7	67.5	56.2	44.0	34.0	30.7	30.3	29.4	25.3	25.3	25.5
87.5°	39.4	36.1	33.1	29.0	22.8	22.0	21.2	22.0	19.0	18.4	18.4
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°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1114.0	1095.3	1082.2	1070.8	1043.3	1045.3	1049.0	1054.5	1037.4	1046.3	1057.5
5°	897.2	881.7	870.1	852.0	813.5	800.0	791.2	787.5	761.9	767.3	779.3
7.5°	661.5	661.3	657.2	636.8	590.5	562.6	544.2	538.4	522.6	528.7	546.8
10°	465.9	470.7	468.7	450.6	409.2	389.1	385.1	396.4	396.7	408.4	439.7
12.5°	336.7	333.9	331.5	316.6	285.5	282.2	291.5	307.3	311.1	323.6	356.2
15°	251.3	244.7	243.4	231.7	211.3	214.2	221.1	229.2	229.4	238.2	265.1
17.5°	188.5	188.5	190.6	183.0	168.3	166.9	163.4	161.2	158.0	161.5	176.2
20°	146.2	153.2	158.6	154.1	140.9	134.3	127.5	123.2	120.7	121.0	125.4
22.5°	125.4	130.9	137.9	135.6	124.5	116.2	111.7	108.8	106.9	106.9	109.4
25°	114.8	118.2	124.9	123.7	114.3	107.3	103.8	100.9	98.8	98.5	100.9
27.5°	106.3	108.4	112.8	112.3	102.4	98.2	95.9	94.1	92.7	92.4	95.0
30°	98.8	99.8	102.0	101.1	93.9	89.4	88.7	87.9	87.0	87.2	90.8
32.5°	91.8	92.7	94.1	93.0	85.9	82.1	80.8	79.7	78.8	79.7	83.7
35°	84.4	86.7	88.4	87.9	80.2	75.5	72.7	69.9	68.8	69.6	74.2
37.5°	77.8	81.8	84.0	83.5	75.5	70.2	66.4	65.8	65.8	67.0	71.5
40°	75.3	78.3	80.2	79.4	71.5	66.0	63.9	63.2	63.4	64.5	69.3
42.5°	73.1	75.8	76.4	74.7	67.0	63.4	62.1	60.9	61.4	62.8	67.7
45°	71.2	73.4	73.1	70.6	63.2	60.6	60.6	59.7	60.0	61.2	66.4
47.5°	69.9	71.0	70.4	68.0	60.4	58.5	59.3	59.3	59.7	60.6	65.8
50°	67.7	68.5	68.0	65.8	58.2	56.6	57.4	58.5	59.0	59.7	64.5
52.5°	65.5	66.0	65.8	63.6	56.1	54.9	54.9	56.1	57.1	58.2	62.3
55°	63.4	63.9	64.1	62.5	54.3	53.3	53.0	53.0	54.1	55.8	60.0
57.5°	61.8	61.8	62.3	61.2	52.7	51.5	50.0	50.3	51.7	53.0	57.4
60°	59.7	60.0	60.9	59.7	50.6	48.4	47.3	48.7	49.1	50.6	55.2
62.5°	58.2	58.2	58.7	57.9	48.7	46.5	45.6	47.0	47.0	48.4	53.0
65°	56.9	56.6	56.6	56.2	46.8	44.6	44.0	44.6	44.8	46.3	50.8
67.5°	55.8	54.3	54.3	54.9	44.8	42.7	42.4	42.4	42.7	44.3	48.4
70°	53.3	52.2	51.9	53.9	42.9	40.2	40.2	39.6	40.2	41.1	45.5
72.5°	50.6	49.8	49.4	52.2	41.1	37.5	37.0	36.7	37.0	37.8	42.0
75°	47.0	46.5	47.0	51.2	39.2	34.6	33.7	33.4	33.4	33.7	38.1
77.5°	42.9	42.4	46.5	47.6	38.1	31.0	30.3	29.6	29.0	29.0	34.0
80°	38.1	37.8	44.8	40.2	36.4	27.2	25.8	25.1	24.4	24.3	29.0
82.5°	33.1	32.6	38.4	31.5	30.3	22.3	20.4	18.8	18.0	18.0	22.3
85°	27.2	26.9	30.3	23.0	20.9	16.3	13.7	12.2	11.1	11.1	14.5
87.5°	19.9	19.4	18.8	13.8	10.6	7.4	5.2	4.9	4.3	4.1	6.0
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°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1074.1	1096.7	1139.3	1174.4	1221.2	1258.6	1301.4	1319.9
5°	801.3	837.0	902.2	958.0	1035.1	1106.7	1188.3	1232.8
7.5°	574.8	627.6	677.1	746.8	843.1	939.2	1044.6	1103.7
10°	475.6	524.0	566.4	615.9	690.3	798.4	924.3	990.8
12.5°	393.9	446.2	491.1	544.2	606.6	704.2	847.8	925.3
15°	302.1	359.0	412.9	476.7	553.4	664.8	825.0	911.4
17.5°	206.9	267.9	334.2	412.2	504.7	648.2	846.7	953.3
20°	140.6	185.2	257.3	349.7	460.9	640.3	894.6	1039.5
22.5°	115.5	135.6	189.8	291.0	425.0	649.0	972.3	1153.0
25°	106.0	116.9	147.6	239.3	397.5	672.1	1077.5	1281.0
27.5°	100.2	109.4	129.4	202.3	372.3	703.7	1205.6	1437.6
30°	96.6	105.2	122.1	183.3	349.1	731.0	1315.7	1555.7
32.5°	88.7	95.2	109.1	172.4	332.6	752.9	1412.9	1665.9
35°	79.1	87.0	98.5	165.3	332.1	763.3	1504.2	1788.0
37.5°	75.5	83.3	91.6	161.5	335.2	772.0	1616.1	1926.4
40°	73.4	80.2	87.0	160.9	338.0	778.8	1725.3	2070.7
42.5°	71.5	78.3	86.1	157.2	337.0	788.1	1822.1	2194.3
45°	71.0	77.8	88.2	151.5	336.7	802.5	1899.0	2293.4
47.5°	70.4	80.8	87.6	145.2	335.5	832.9	1985.8	2385.4
50°	69.9	86.1	83.7	136.5	327.4	884.8	2102.5	2491.0
52.5°	69.6	87.0	79.7	124.5	312.7	961.7	2273.3	2637.9
55°	68.5	82.6	72.7	108.8	291.5	1044.6	2456.1	2810.4
57.5°	66.0	73.8	68.5	93.2	261.0	1102.6	2591.3	2943.9
60°	72.0	63.4	65.8	85.3	224.5	1112.9	2597.3	2981.6
62.5°	68.8	57.6	63.2	82.6	199.1	1045.4	2478.5	2936.6
65°	54.9	54.6	60.6	85.3	195.2	894.6	2277.8	2803.7
67.5°	50.0	52.6	58.2	88.7	197.6	704.8	1982.5	2493.2
70°	46.8	49.8	54.9	91.6	201.9	555.2	1596.1	2027.7
72.5°	43.5	46.0	51.7	94.6	199.1	438.1	1277.4	1561.9
75°	39.4	41.6	47.0	86.7	170.8	322.0	1015.1	1109.1
77.5°	34.9	36.7	41.3	68.5	128.4	224.0	760.2	799.4
80°	30.0	30.7	34.2	50.0	83.7	134.0	578.6	637.6
82.5°	23.6	24.0	26.1	36.7	52.2	85.7	401.4	458.1
85°	15.2	15.8	16.9	25.8	35.0	54.9	205.1	234.9
87.5°	5.2	6.0	6.0	12.4	17.2	30.5	62.8	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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