

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: P271255

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271255
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-SLR-7027-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT 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

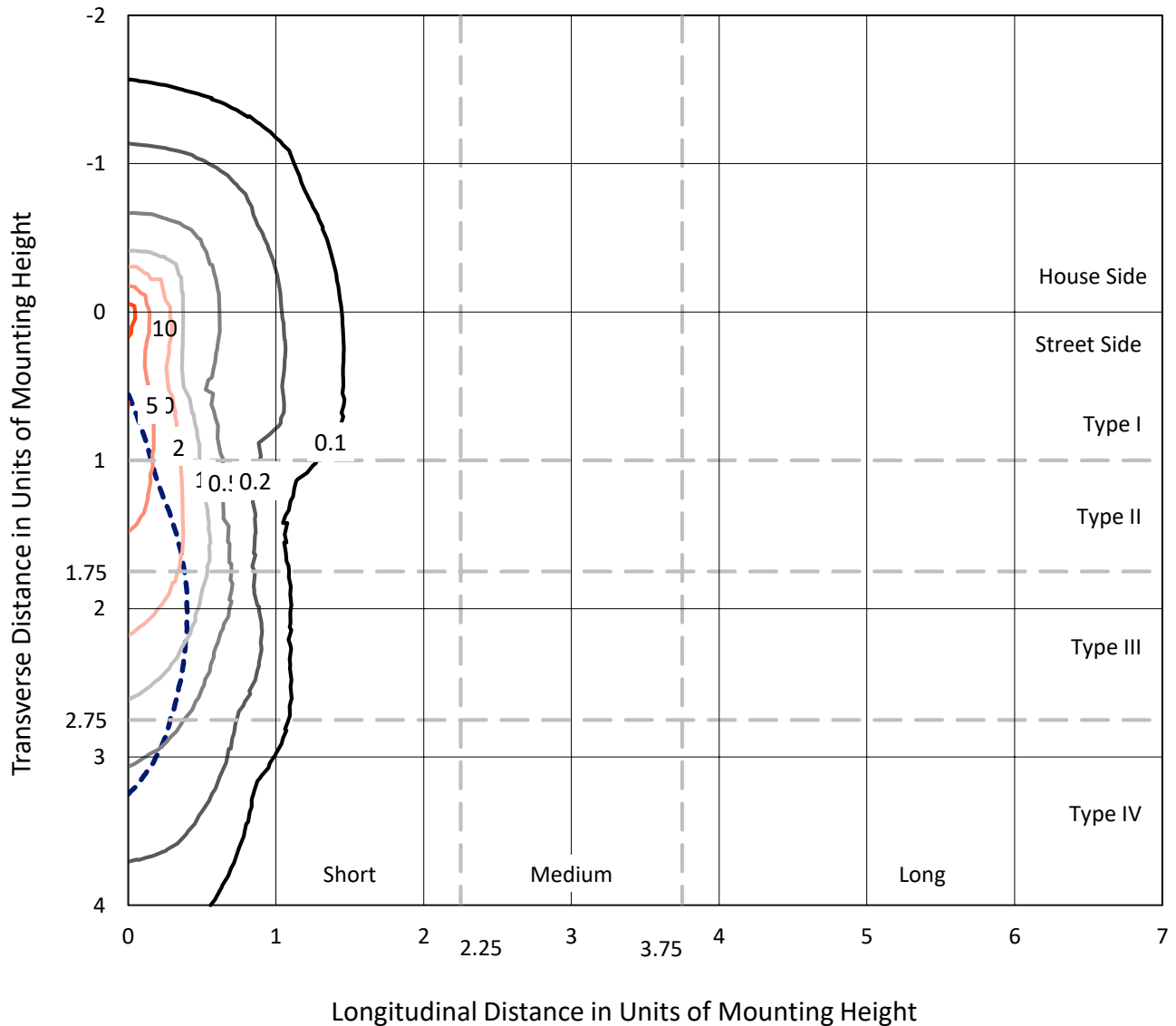
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

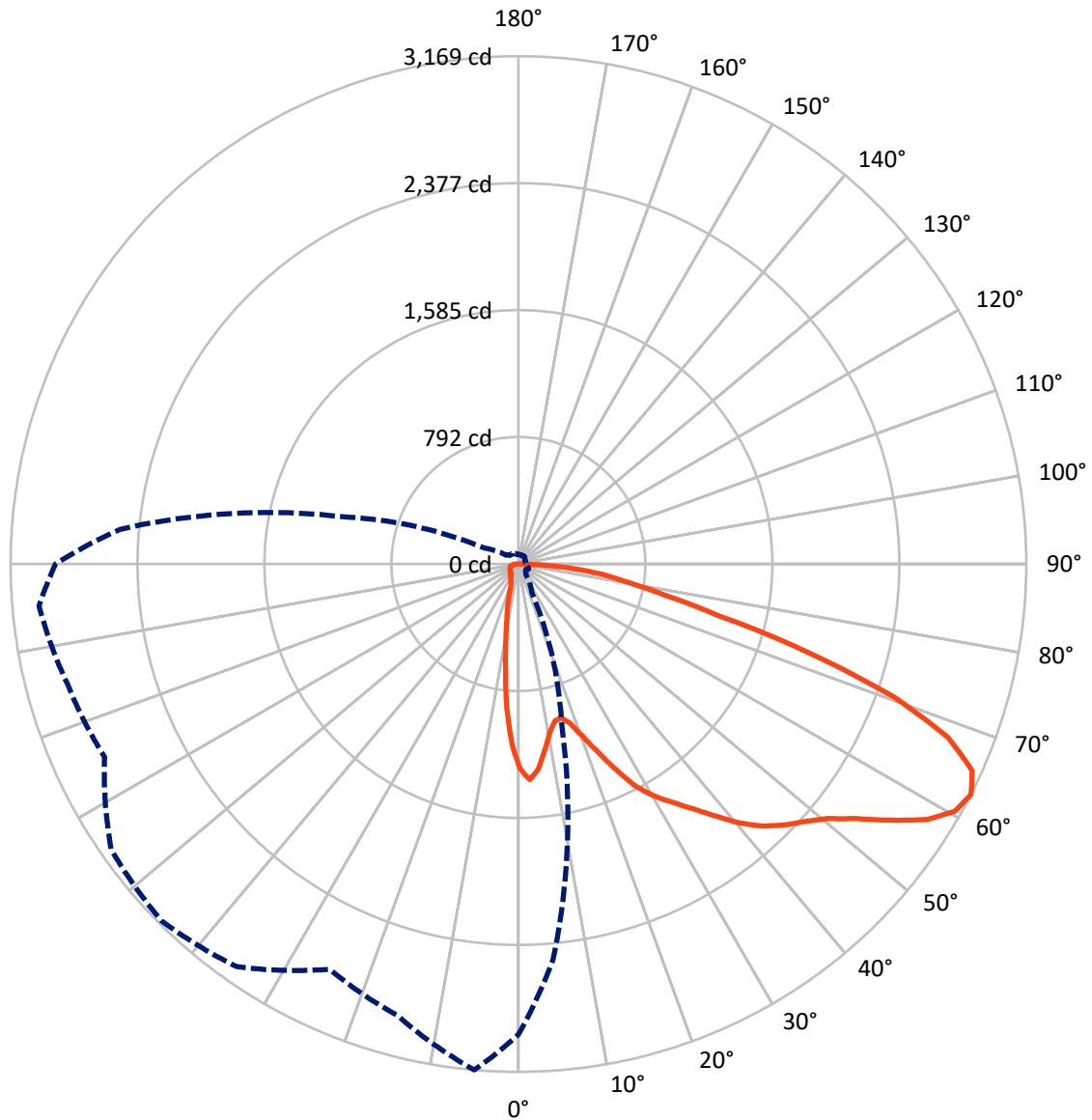
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-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

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

Coefficient of Utilization



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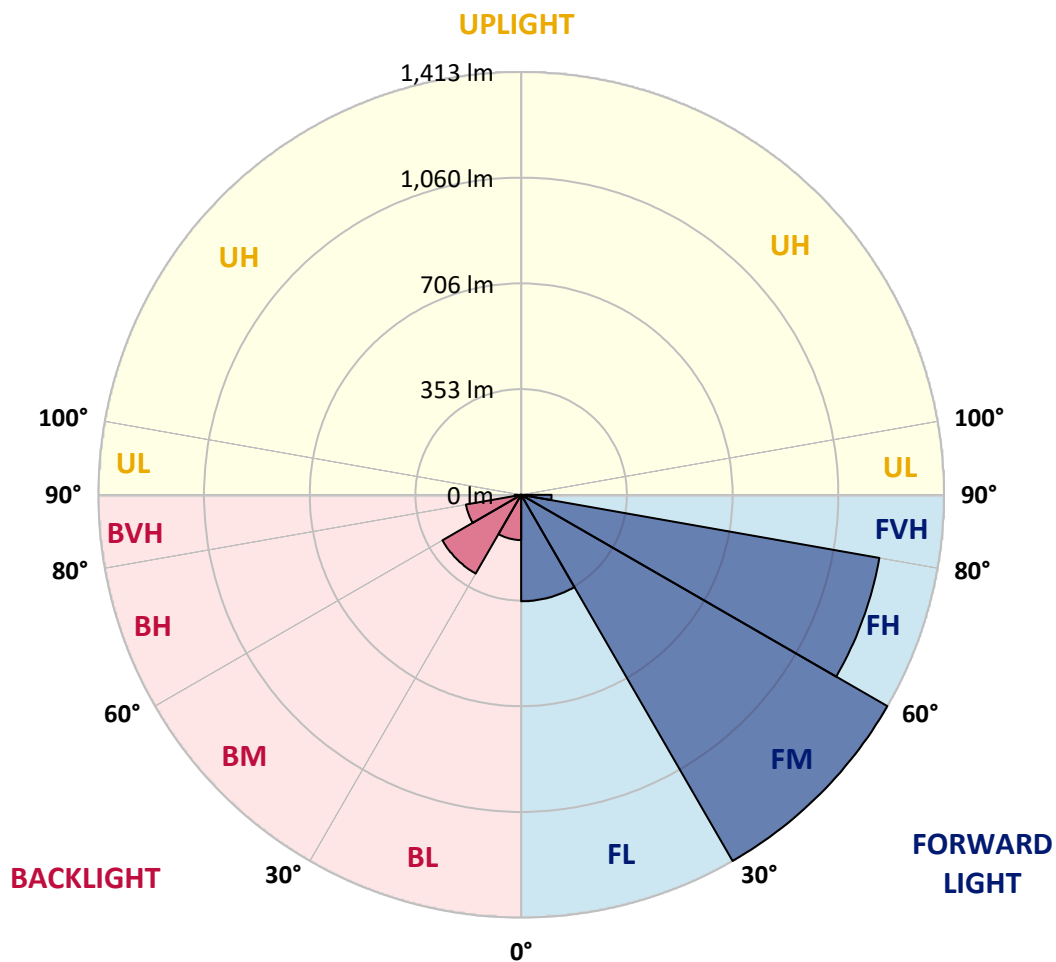
CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-800

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	1301.4	1258.6	1221.2	1174.4	1139.3	1096.7	1074.1	1057.5	1046.3	1037.4
5°	1232.8	1188.3	1106.7	1035.1	958.0	902.2	837.0	801.3	779.3	767.3	761.9
7.5°	1103.7	1044.6	939.2	843.1	746.8	677.1	627.6	574.8	546.8	528.7	522.6
10°	990.8	924.3	798.4	690.3	615.9	566.4	524.0	475.6	439.7	408.4	396.7
12.5°	925.3	847.8	704.2	606.6	544.2	491.1	446.2	393.9	356.2	323.6	311.1
15°	911.4	825.0	664.8	553.4	476.7	412.9	359.0	302.1	265.1	238.2	229.4
17.5°	953.3	846.7	648.2	504.7	412.2	334.2	267.9	206.9	176.2	161.5	158.0
20°	1039.5	894.6	640.3	460.9	349.7	257.3	185.2	140.6	125.4	121.0	120.7
22.5°	1153.0	972.3	649.0	425.0	291.0	189.8	135.6	115.5	109.4	106.9	106.9
25°	1281.0	1077.5	672.1	397.5	239.3	147.6	116.9	106.0	100.9	98.5	98.8
27.5°	1437.6	1205.6	703.7	372.3	202.3	129.4	109.4	100.2	95.0	92.4	92.7
30°	1555.7	1315.7	731.0	349.1	183.3	122.1	105.2	96.6	90.8	87.2	87.0
32.5°	1665.9	1412.9	752.9	332.6	172.4	109.1	95.2	88.7	83.7	79.7	78.8
35°	1788.0	1504.2	763.3	332.1	165.3	98.5	87.0	79.1	74.2	69.6	68.8
37.5°	1926.4	1616.1	772.0	335.2	161.5	91.6	83.3	75.5	71.5	67.0	65.8
40°	2070.7	1725.3	778.8	338.0	160.9	87.0	80.2	73.4	69.3	64.5	63.4
42.5°	2194.3	1822.1	788.1	337.0	157.2	86.1	78.3	71.5	67.7	62.8	61.4
45°	2293.4	1899.0	802.5	336.7	151.5	88.2	77.8	71.0	66.4	61.2	60.0
47.5°	2385.4	1985.8	832.9	335.5	145.2	87.6	80.8	70.4	65.8	60.6	59.7
50°	2491.0	2102.5	884.8	327.4	136.5	83.7	86.1	69.9	64.5	59.7	59.0
52.5°	2637.9	2273.3	961.7	312.7	124.5	79.7	87.0	69.6	62.3	58.2	57.1
55°	2810.4	2456.1	1044.6	291.5	108.8	72.7	82.6	68.5	60.0	55.8	54.1
57.5°	2943.9	2591.3	1102.6	261.0	93.2	68.5	73.8	66.0	57.4	53.0	51.7
60°	2981.6	2597.3	1112.9	224.5	85.3	65.8	63.4	72.0	55.2	50.6	49.1
62.5°	2936.6	2478.5	1045.4	199.1	82.6	63.2	57.6	68.8	53.0	48.4	47.0
65°	2803.7	2277.8	894.6	195.2	85.3	60.6	54.6	54.9	50.8	46.3	44.8
67.5°	2493.2	1982.5	704.8	197.6	88.7	58.2	52.6	50.0	48.4	44.3	42.7
70°	2027.7	1596.1	555.2	201.9	91.6	54.9	49.8	46.8	45.5	41.1	40.2
72.5°	1561.9	1277.4	438.1	199.1	94.6	51.7	46.0	43.5	42.0	37.8	37.0
75°	1109.1	1015.1	322.0	170.8	86.7	47.0	41.6	39.4	38.1	33.7	33.4
77.5°	799.4	760.2	224.0	128.4	68.5	41.3	36.7	34.9	34.0	29.0	29.0
80°	637.6	578.6	134.0	83.7	50.0	34.2	30.7	30.0	29.0	24.3	24.4
82.5°	458.1	401.4	85.7	52.2	36.7	26.1	24.0	23.6	22.3	18.0	18.0
85°	234.9	205.1	54.9	35.0	25.8	16.9	15.8	15.2	14.5	11.1	11.1
87.5°	45.6	62.8	30.5	17.2	12.4	6.0	6.0	5.2	6.0	4.1	4.3
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°	1054.5	1049.0	1045.3	1043.3	1070.8	1082.2	1095.3	1114.0	1126.8	1121.4	1138.8
5°	787.5	791.2	800.0	813.5	852.0	870.1	881.7	897.2	908.5	897.2	915.8
7.5°	538.4	544.2	562.6	590.5	636.8	657.2	661.3	661.5	659.1	640.9	653.3
10°	396.4	385.1	389.1	409.2	450.6	468.7	470.7	465.9	465.0	457.6	471.8
12.5°	307.3	291.5	282.2	285.5	316.6	331.5	333.9	336.7	347.7	351.2	368.8
15°	229.2	221.1	214.2	211.3	231.7	243.4	244.7	251.3	262.9	266.2	281.2
17.5°	161.2	163.4	166.9	168.3	183.0	190.6	188.5	188.5	190.4	189.5	197.9
20°	123.2	127.5	134.3	140.9	154.1	158.6	153.2	146.2	141.9	139.7	141.7
22.5°	108.8	111.7	116.2	124.5	135.6	137.9	130.9	125.4	121.4	119.0	119.4
25°	100.9	103.8	107.3	114.3	123.7	124.9	118.2	114.8	111.5	109.4	108.8
27.5°	94.1	95.9	98.2	102.4	112.3	112.8	108.4	106.3	104.2	102.4	102.0
30°	87.9	88.7	89.4	93.9	101.1	102.0	99.8	98.8	97.8	96.7	96.7
32.5°	79.7	80.8	82.1	85.9	93.0	94.1	92.7	91.8	90.5	90.0	89.2
35°	69.9	72.7	75.5	80.2	87.9	88.4	86.7	84.4	81.0	80.2	79.7
37.5°	65.8	66.4	70.2	75.5	83.5	84.0	81.8	77.8	75.3	75.5	76.1
40°	63.2	63.9	66.0	71.5	79.4	80.2	78.3	75.3	72.9	73.1	74.0
42.5°	60.9	62.1	63.4	67.0	74.7	76.4	75.8	73.1	70.6	71.2	72.4
45°	59.7	60.6	60.6	63.2	70.6	73.1	73.4	71.2	69.3	69.9	71.2
47.5°	59.3	59.3	58.5	60.4	68.0	70.4	71.0	69.9	68.8	69.3	70.6
50°	58.5	57.4	56.6	58.2	65.8	68.0	68.5	67.7	68.2	69.3	70.2
52.5°	56.1	54.9	54.9	56.1	63.6	65.8	66.0	65.5	66.7	68.0	69.3
55°	53.0	53.0	53.3	54.3	62.5	64.1	63.9	63.4	64.5	66.0	67.5
57.5°	50.3	50.0	51.5	52.7	61.2	62.3	61.8	61.8	62.5	63.9	65.2
60°	48.7	47.3	48.4	50.6	59.7	60.9	60.0	59.7	61.2	62.3	63.4
62.5°	47.0	45.6	46.5	48.7	57.9	58.7	58.2	58.2	59.6	60.4	61.4
65°	44.6	44.0	44.6	46.8	56.2	56.6	56.6	56.9	57.9	58.5	59.6
67.5°	42.4	42.4	42.7	44.8	54.9	54.3	54.3	55.8	56.1	56.6	57.6
70°	39.6	40.2	40.2	42.9	53.9	51.9	52.2	53.3	53.9	54.3	54.6
72.5°	36.7	37.0	37.5	41.1	52.2	49.4	49.8	50.6	50.8	51.7	51.9
75°	33.4	33.7	34.6	39.2	51.2	47.0	46.5	47.0	47.6	48.1	47.9
77.5°	29.6	30.3	31.0	38.1	47.6	46.5	42.4	42.9	43.5	43.5	43.2
80°	25.1	25.8	27.2	36.4	40.2	44.8	37.8	38.1	38.4	38.4	37.8
82.5°	18.8	20.4	22.3	30.3	31.5	38.4	32.6	33.1	32.3	31.8	31.5
85°	12.2	13.7	16.3	20.9	23.0	30.3	26.9	27.2	25.5	25.3	25.3
87.5°	4.9	5.2	7.4	10.6	13.8	18.8	19.4	19.9	18.4	18.4	19.0
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):

	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°	1165.1	1192.3	1223.6	1255.4	1281.5	1315.3	1347.8	1382.8	1400.4	1410.7	1439.8
5°	944.6	981.8	1026.3	1076.0	1117.3	1188.0	1264.2	1349.0	1389.8	1430.0	1506.1
7.5°	675.7	712.1	763.7	828.2	886.9	980.2	1080.7	1195.4	1251.9	1317.2	1442.0
10°	501.7	540.3	587.0	641.7	699.6	796.6	909.3	1038.1	1100.5	1174.2	1316.0
12.5°	406.8	451.8	500.4	549.3	599.0	664.2	782.3	925.7	992.4	1066.6	1208.8
15°	317.3	365.7	417.9	471.3	520.7	593.6	714.1	883.5	959.8	1031.7	1148.0
17.5°	224.5	270.3	329.0	393.7	465.5	551.6	699.4	902.0	994.7	1069.7	1147.8
20°	153.2	184.6	243.4	320.1	408.6	518.1	704.8	966.9	1082.7	1165.1	1194.7
22.5°	122.3	137.4	177.1	255.1	359.7	493.4	727.1	1056.0	1209.2	1309.5	1280.4
25°	111.2	119.7	140.3	201.5	316.3	477.2	770.6	1173.8	1350.8	1452.6	1383.5
27.5°	104.5	111.7	125.0	165.6	278.7	466.6	825.8	1312.6	1510.5	1594.0	1490.8
30°	100.2	107.3	119.7	148.7	250.4	450.8	874.2	1439.3	1638.0	1692.0	1548.8
32.5°	91.6	97.3	107.3	133.3	229.2	432.4	916.1	1552.6	1758.4	1776.4	1618.4
35°	83.0	88.9	99.0	120.7	216.8	417.9	938.1	1653.2	1877.8	1860.7	1687.5
37.5°	79.7	84.6	93.9	111.7	209.9	408.4	946.5	1752.2	2005.8	1954.0	1735.6
40°	77.6	81.8	90.0	105.8	208.0	399.4	944.6	1846.2	2130.2	2050.6	1773.4
42.5°	75.8	79.7	87.2	101.7	202.8	391.0	938.4	1927.7	2229.8	2133.7	1809.5
45°	74.5	78.6	86.1	103.8	193.3	381.8	934.5	2001.9	2306.0	2203.8	1858.0
47.5°	74.0	78.6	86.4	103.3	183.0	371.4	948.2	2084.2	2372.8	2262.8	1922.5
50°	73.1	78.3	92.4	98.5	168.8	358.7	994.2	2182.3	2442.6	2329.1	2005.8
52.5°	71.8	78.1	98.8	94.6	150.6	340.9	1068.7	2321.0	2563.4	2458.3	2129.3
55°	70.2	78.6	94.3	88.7	131.3	318.1	1143.2	2511.1	2759.1	2666.7	2306.7
57.5°	68.2	77.8	89.2	83.3	115.3	289.3	1199.6	2666.9	2920.6	2881.5	2524.4
60°	67.0	79.7	80.2	79.9	104.9	261.9	1205.2	2656.8	2967.1	3020.9	2737.7
62.5°	65.2	81.2	73.1	77.6	99.8	236.3	1138.0	2492.3	2888.5	3003.0	2911.3
65°	63.2	71.0	69.3	75.3	99.8	222.7	981.6	2218.5	2671.3	2833.3	3005.6
67.5°	60.9	64.5	66.7	72.4	102.0	209.9	788.8	1871.3	2328.6	2559.5	2899.6
70°	57.9	60.9	63.6	69.6	100.9	201.0	620.8	1499.9	1916.4	2180.7	2606.3
72.5°	55.2	57.4	60.0	65.5	100.9	196.9	498.6	1176.6	1463.2	1685.8	2158.9
75°	51.2	53.0	55.4	61.4	99.0	180.0	374.5	942.7	1070.5	1209.9	1703.5
77.5°	47.0	48.4	50.3	56.2	89.2	150.3	264.8	730.1	793.2	870.4	1328.1
80°	42.0	42.9	44.3	50.3	74.0	116.7	172.4	571.1	593.1	630.3	873.6
82.5°	35.9	37.5	37.8	43.2	59.6	84.6	102.4	391.3	391.0	445.6	616.4
85°	29.4	30.3	30.7	34.0	44.0	56.2	67.5	213.7	190.6	267.1	535.4
87.5°	22.0	21.2	22.0	22.8	29.0	33.1	36.1	39.4	23.6	48.4	311.4
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):

	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°	1455.3	1471.3	1461.8	1450.4	1421.8	1379.9	1347.8	1319.9
5°	1558.9	1588.6	1575.4	1533.0	1459.0	1375.0	1286.7	1232.8
7.5°	1545.9	1604.6	1599.4	1528.6	1422.6	1298.9	1174.7	1103.7
10°	1441.4	1523.7	1538.0	1465.7	1353.2	1214.9	1071.0	990.8
12.5°	1327.8	1397.0	1425.9	1398.4	1292.8	1152.0	1005.6	925.3
15°	1232.6	1267.7	1296.3	1314.0	1248.4	1129.8	994.2	911.4
17.5°	1162.1	1155.4	1179.3	1221.8	1224.4	1159.4	1045.7	953.3
20°	1128.2	1074.8	1088.7	1148.4	1217.9	1234.8	1148.8	1039.5
22.5°	1126.3	1043.0	1045.7	1109.9	1236.6	1337.5	1277.4	1153.0
25°	1155.6	1039.5	1041.9	1105.9	1269.8	1441.2	1426.1	1281.0
27.5°	1205.6	1054.7	1053.2	1123.8	1314.1	1527.6	1576.3	1437.6
30°	1259.8	1076.8	1072.7	1152.6	1357.7	1580.8	1682.9	1555.7
32.5°	1327.2	1116.0	1101.9	1194.7	1400.5	1632.0	1774.0	1665.9
35°	1391.4	1173.2	1153.0	1255.1	1446.6	1688.9	1875.9	1788.0
37.5°	1457.0	1259.0	1247.6	1342.2	1511.6	1750.5	1992.6	1926.4
40°	1541.0	1380.8	1375.3	1468.5	1598.4	1818.0	2123.4	2070.7
42.5°	1631.5	1510.2	1505.6	1613.7	1706.1	1885.7	2235.4	2194.3
45°	1723.7	1667.1	1668.2	1768.9	1819.3	1949.6	2323.5	2293.4
47.5°	1832.5	1838.7	1877.5	1929.5	1929.7	2020.8	2401.4	2385.4
50°	1970.5	2045.9	2117.7	2125.7	2041.3	2114.9	2497.0	2491.0
52.5°	2126.8	2284.8	2368.3	2342.5	2150.1	2231.6	2638.1	2637.9
55°	2312.5	2534.7	2613.3	2569.3	2280.3	2383.7	2822.5	2810.4
57.5°	2505.2	2775.1	2838.5	2781.2	2443.1	2560.6	3007.3	2943.9
60°	2713.2	2982.1	3046.5	2960.4	2625.8	2737.0	3129.8	2981.6
62.5°	2849.3	3103.0	3149.3	3066.6	2789.5	2916.7	3169.1	2936.6
65°	2856.4	3022.5	3034.8	3005.5	2859.1	3072.9	3112.1	2803.7
67.5°	2662.2	2672.1	2688.1	2719.7	2710.5	3003.3	2891.7	2493.2
70°	2247.1	2116.5	2169.2	2199.8	2268.3	2671.3	2484.7	2027.7
72.5°	1718.2	1527.6	1587.5	1577.1	1719.5	2191.1	1901.0	1561.9
75°	1236.6	1041.8	1046.3	1046.9	1235.6	1748.9	1296.3	1109.1
77.5°	840.5	737.1	752.4	742.9	826.9	1370.2	933.2	799.4
80°	574.8	572.1	575.4	553.0	551.4	885.5	690.9	637.6
82.5°	426.3	393.9	389.3	365.7	422.6	677.1	524.5	458.1
85°	336.3	218.1	189.5	228.7	366.0	623.0	319.7	234.9
87.5°	142.6	85.7	51.9	102.8	203.3	456.6	88.7	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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