

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: P271254

Luminaire Tested: **XNV-AF-01-LED-U-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271254
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-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 3057.3 lumens
Efficiency: N/A
Efficacy: 89.9 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 - G1

Input Watts (W): 34
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

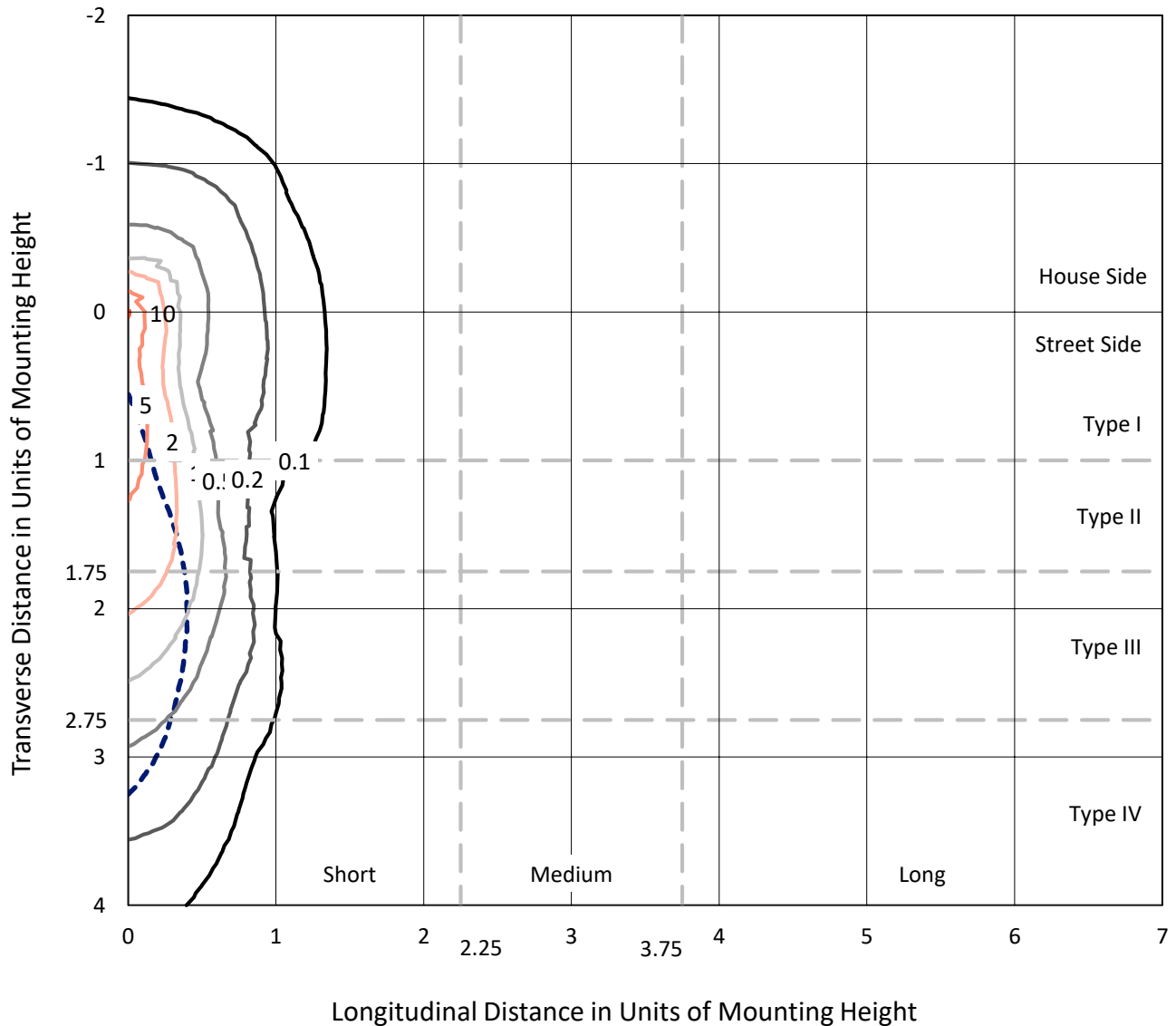


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Iso-Footcandle Lines of Horizontal Illumination

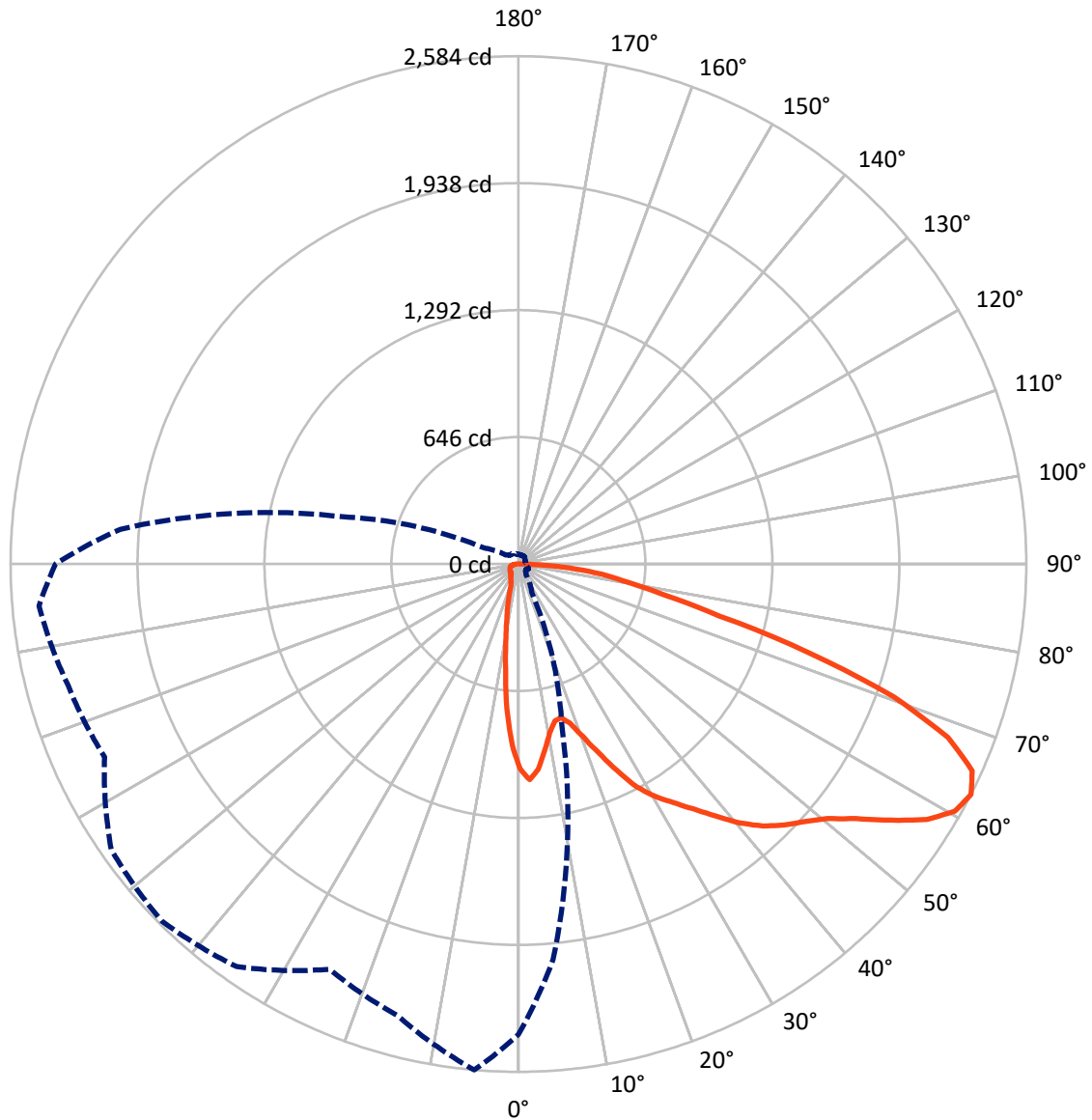
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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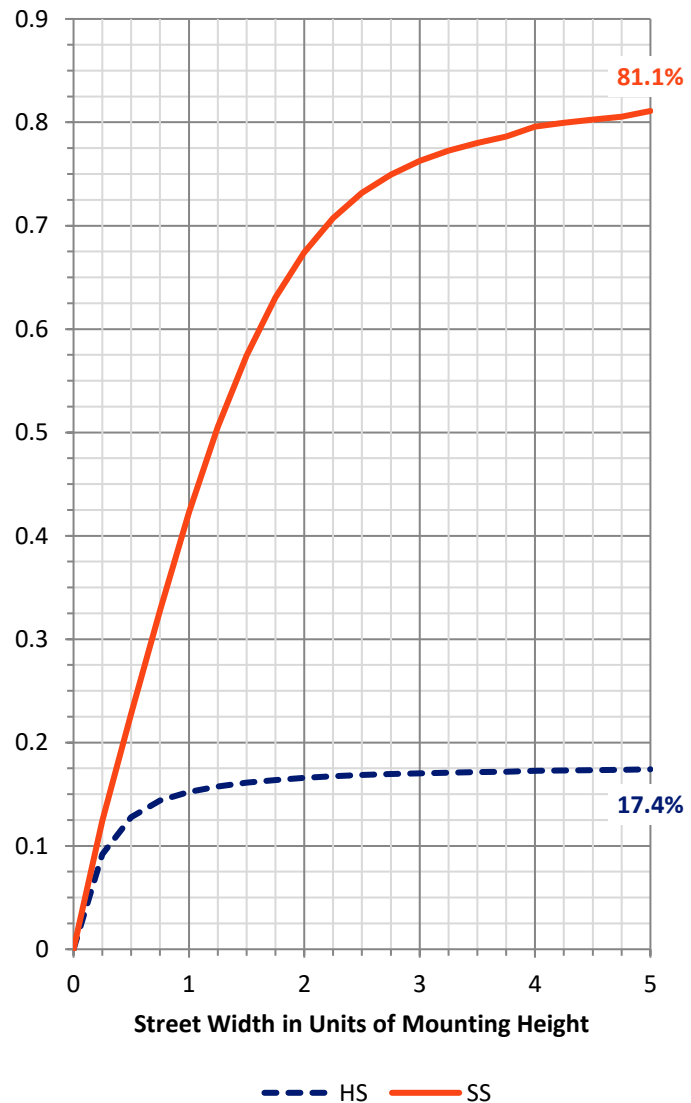
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.6	0.0	541.6
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	2515.7	0.0	2515.7
	% Fixture	82.3	0.0	82.3
Total	Lumens	3057.3	0.0	3057.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	2.5
10°-20°	138.4	4.5
20°-30°	199.1	6.5
30°-40°	305.0	10.0
40°-50°	445.9	14.6
50°-60°	648.8	21.2
60°-70°	751.7	24.6
70°-80°	391.9	12.8
80°-90°	100.7	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°	3057.3	100.0
0°-180°	3057.3	100.0



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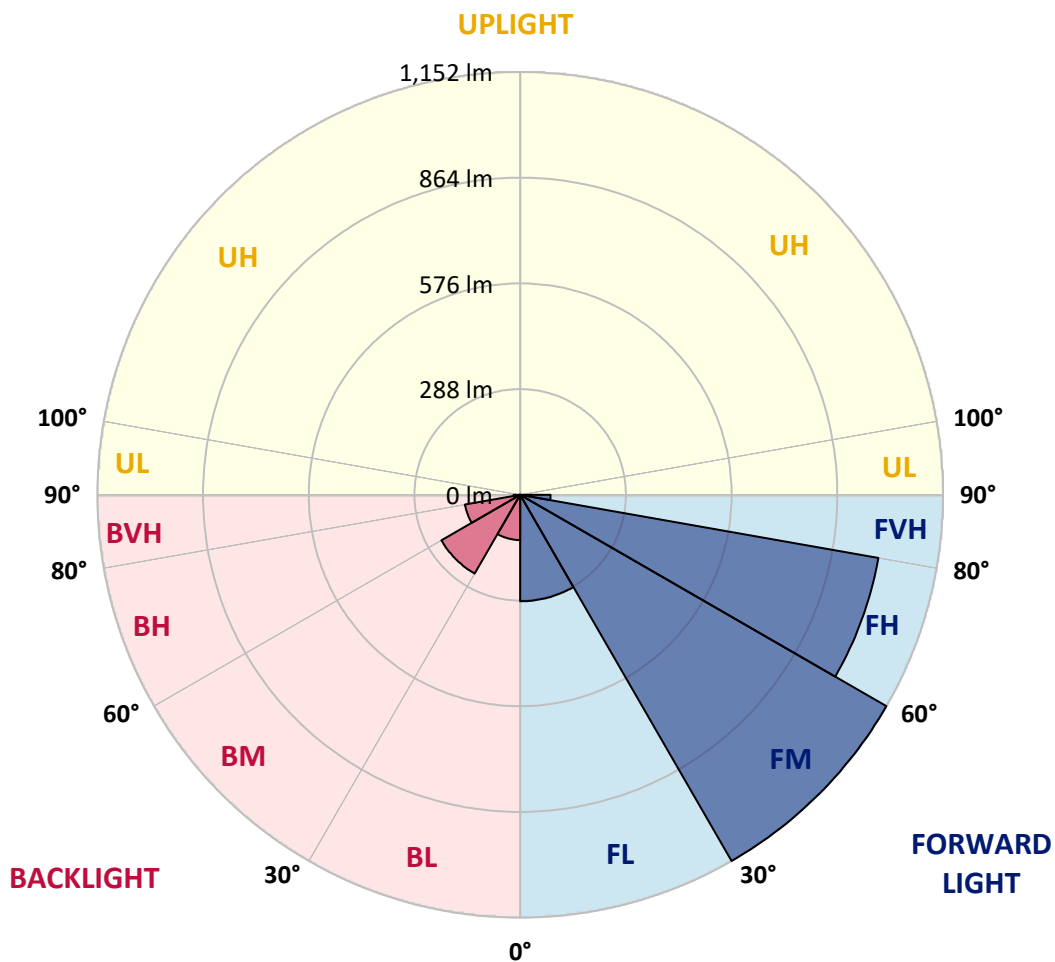
CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.2	9.5			
FM	(30°-60°)	1151.9	37.7			
FH	(60°-80°)	990.8	32.4			G1/1800
FVH	(80°-90°)	82.9	2.7			G1/100
BL	(0°-30°)	123.2	4.0	B1/500		
BM	(30°-60°)	247.8	8.1	B1/1000		
BH	(60°-80°)	152.7	5.0	B1/500		G1/500
BVH	(80°-90°)	17.9	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1076.0	1060.9	1026.1	995.5	957.5	928.8	894.1	875.6	862.1	853.0	845.7
5°	1005.1	968.7	902.2	843.9	780.9	735.5	682.4	653.2	635.3	625.6	621.1
7.5°	899.7	851.7	765.6	687.5	608.7	552.0	511.7	468.6	445.7	430.9	426.1
10°	807.8	753.5	650.8	562.8	502.2	461.8	427.1	387.7	358.5	332.9	323.4
12.5°	754.3	691.2	574.1	494.5	443.6	400.4	363.8	321.2	290.4	263.8	253.6
15°	743.1	672.6	541.9	451.0	388.5	336.4	292.6	246.2	216.1	194.2	187.0
17.5°	777.2	690.3	528.5	411.5	336.1	272.5	218.4	168.7	143.6	131.7	128.7
20°	847.5	729.3	522.0	375.8	285.0	209.8	150.9	114.7	102.1	98.6	98.5
22.5°	939.8	792.8	529.1	346.4	237.2	154.7	110.6	94.2	89.1	87.1	87.1
25°	1044.3	878.5	548.0	324.1	195.1	120.4	95.3	86.4	82.3	80.3	80.5
27.5°	1172.0	982.8	573.7	303.4	164.8	105.6	89.1	81.6	77.3	75.4	75.5
30°	1268.1	1072.7	595.8	284.7	149.4	99.5	85.8	78.7	74.0	71.1	71.0
32.5°	1358.1	1151.7	613.8	271.1	140.6	88.9	77.6	72.3	68.4	64.9	64.3
35°	1457.7	1226.2	622.3	270.7	134.7	80.3	71.0	64.5	60.5	56.8	56.1
37.5°	1570.5	1317.5	629.4	273.4	131.7	74.6	67.8	61.7	58.3	54.5	53.7
40°	1688.1	1406.4	634.8	275.5	131.2	71.0	65.3	59.8	56.6	52.6	51.7
42.5°	1788.9	1485.3	642.4	274.6	128.1	70.2	63.8	58.3	55.2	51.3	50.0
45°	1869.6	1548.1	654.1	274.4	123.4	71.9	63.4	57.9	54.1	49.9	49.0
47.5°	1944.7	1618.8	678.9	273.5	118.3	71.3	65.8	57.4	53.7	49.4	48.8
50°	2030.7	1714.0	721.2	266.8	111.3	68.4	70.2	57.0	52.6	48.8	48.1
52.5°	2150.5	1853.2	784.0	254.8	101.5	64.9	71.0	56.8	50.8	47.4	46.5
55°	2291.1	2002.3	851.7	237.6	88.7	59.2	67.5	55.9	49.0	45.5	44.0
57.5°	2400.0	2112.5	898.8	212.8	76.0	55.9	60.0	53.9	46.8	43.2	42.1
60°	2430.6	2117.5	907.3	183.2	69.6	53.7	51.7	58.7	44.9	41.2	40.2
62.5°	2394.1	2020.6	852.3	162.2	67.5	51.5	47.0	56.1	43.2	39.4	38.4
65°	2285.6	1856.9	729.3	159.2	69.6	49.4	44.6	44.7	41.4	37.6	36.7
67.5°	2032.5	1616.2	574.6	161.2	72.3	47.4	42.8	40.9	39.4	36.1	34.9
70°	1653.1	1301.3	452.7	164.7	74.6	44.7	40.6	38.1	37.0	33.4	32.8
72.5°	1273.3	1041.5	357.2	162.2	77.2	42.1	37.5	35.5	34.1	30.8	30.2
75°	904.2	827.5	262.5	139.1	70.6	38.4	34.0	32.1	31.0	27.5	27.3
77.5°	651.7	619.8	182.6	104.7	55.9	33.6	30.0	28.3	27.7	23.7	23.7
80°	519.8	471.7	109.2	68.4	40.9	27.9	25.1	24.3	23.7	19.8	19.9
82.5°	373.5	327.3	69.8	42.6	30.0	21.3	19.6	19.3	18.1	14.6	14.6
85°	191.5	167.2	44.7	28.6	21.1	13.7	12.8	12.3	11.8	9.2	9.2
87.5°	37.2	51.3	24.9	14.0	10.2	4.9	4.9	4.2	4.9	3.4	3.6
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	859.7	855.1	852.1	850.5	873.0	882.2	892.8	908.1	918.5	914.1	928.4
5°	642.0	645.1	652.2	663.3	694.5	709.3	718.9	731.5	740.7	731.5	746.6
7.5°	438.9	443.6	458.7	481.5	519.2	535.7	539.2	539.3	537.4	522.5	532.6
10°	323.2	313.9	317.2	333.6	367.2	382.1	383.8	379.8	379.1	373.1	384.7
12.5°	250.4	237.6	230.1	232.8	258.1	270.2	272.1	274.4	283.5	286.4	300.7
15°	186.8	180.2	174.7	172.2	188.9	198.3	199.6	204.9	214.3	217.0	229.2
17.5°	131.4	133.2	136.2	137.3	149.2	155.3	153.6	153.6	155.1	154.5	161.3
20°	100.4	103.9	109.6	114.9	125.8	129.3	124.9	119.3	115.7	113.9	115.5
22.5°	88.7	91.1	94.6	101.5	110.6	112.4	106.5	102.1	98.9	97.0	97.2
25°	82.3	84.7	87.6	93.2	100.9	101.8	96.4	93.6	90.9	89.1	88.7
27.5°	76.6	78.2	79.9	83.5	91.5	91.9	88.5	86.6	84.9	83.5	83.2
30°	71.7	72.3	72.9	76.4	82.5	83.2	81.3	80.5	79.8	79.0	79.0
32.5°	64.9	65.8	67.0	70.1	75.7	76.6	75.5	74.9	73.8	73.4	72.8
35°	57.0	59.2	61.7	65.3	71.7	72.0	70.6	68.7	66.0	65.3	64.9
37.5°	53.7	54.1	57.2	61.7	68.0	68.5	66.7	63.4	61.4	61.7	62.1
40°	51.5	52.1	53.9	58.3	64.7	65.3	63.8	61.4	59.4	59.6	60.2
42.5°	49.6	50.6	51.7	54.5	60.9	62.3	61.9	59.6	57.6	58.1	59.0
45°	48.8	49.4	49.4	51.5	57.6	59.6	59.8	58.1	56.6	57.0	58.1
47.5°	48.2	48.2	47.7	49.1	55.4	57.4	57.9	57.0	56.1	56.6	57.6
50°	47.7	46.8	46.2	47.4	53.7	55.4	55.9	55.2	55.7	56.6	57.2
52.5°	45.6	44.7	44.7	45.6	51.8	53.7	53.9	53.4	54.3	55.4	56.6
55°	43.2	43.2	43.5	44.3	50.9	52.3	52.1	51.7	52.6	53.9	54.9
57.5°	41.1	40.9	42.0	42.9	49.9	50.8	50.3	50.3	50.9	52.1	53.2
60°	39.6	38.5	39.4	41.2	48.8	49.6	49.0	48.8	49.9	50.8	51.7
62.5°	38.4	37.2	37.9	39.6	47.3	47.9	47.4	47.4	48.6	49.1	50.0
65°	36.3	35.9	36.3	38.1	46.0	46.2	46.2	46.4	47.3	47.7	48.6
67.5°	34.6	34.6	34.9	36.7	44.7	44.3	44.3	45.5	45.6	46.2	47.0
70°	32.3	32.8	32.8	35.0	43.8	42.3	42.6	43.5	43.8	44.3	44.6
72.5°	30.0	30.2	30.6	33.4	42.6	40.3	40.6	41.2	41.4	42.1	42.3
75°	27.3	27.5	28.1	31.9	41.7	38.4	37.9	38.4	38.7	39.3	39.0
77.5°	24.2	24.7	25.2	31.0	38.7	37.9	34.6	35.0	35.5	35.5	35.3
80°	20.4	21.1	22.2	29.7	32.8	36.7	30.8	31.0	31.3	31.3	30.8
82.5°	15.4	16.6	18.1	24.7	25.7	31.3	26.6	27.0	26.4	26.0	25.7
85°	10.1	11.0	13.4	17.1	18.9	24.7	22.0	22.2	20.8	20.7	20.7
87.5°	4.0	4.2	6.0	8.7	11.3	15.4	15.7	16.2	15.1	15.1	15.5
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	949.9	972.1	997.5	1023.4	1044.6	1072.2	1098.8	1127.3	1141.6	1150.0	1173.7
5°	770.0	800.5	836.6	877.1	910.8	968.6	1030.5	1099.7	1132.9	1165.8	1227.9
7.5°	550.8	580.6	622.6	675.3	723.0	799.1	880.9	974.5	1020.6	1073.7	1175.5
10°	409.0	440.4	478.5	523.2	570.3	649.6	741.3	846.4	897.0	957.1	1072.8
12.5°	331.7	368.5	407.9	447.7	488.4	541.6	637.7	754.5	809.2	869.6	985.5
15°	258.7	298.1	340.6	384.1	424.4	483.8	582.1	720.3	782.6	841.1	935.9
17.5°	183.2	220.4	268.2	321.0	379.5	449.8	570.2	735.4	810.9	872.1	935.7
20°	124.9	150.6	198.3	260.9	333.2	422.4	574.6	788.3	882.8	949.9	974.0
22.5°	99.7	112.0	144.3	208.0	293.2	402.4	592.7	860.9	985.8	1067.5	1043.8
25°	90.6	97.6	114.4	164.3	257.9	389.1	628.3	957.0	1101.2	1184.1	1127.8
27.5°	85.1	91.1	102.0	134.9	227.2	380.4	673.2	1070.1	1231.3	1299.5	1215.4
30°	81.6	87.6	97.6	121.2	204.2	367.5	712.6	1173.2	1335.3	1379.4	1262.7
32.5°	74.6	79.4	87.6	108.7	186.8	352.4	746.9	1265.7	1433.5	1448.2	1319.4
35°	67.6	72.6	80.7	98.5	176.6	340.6	764.7	1347.7	1530.8	1516.9	1375.7
37.5°	64.9	68.9	76.4	91.1	171.1	332.9	771.6	1428.5	1635.3	1593.0	1414.9
40°	63.2	66.7	73.4	86.2	169.6	325.6	770.0	1505.1	1736.6	1671.7	1445.7
42.5°	61.9	64.9	71.1	83.0	165.4	318.8	764.9	1571.5	1817.7	1739.5	1475.2
45°	60.7	64.0	70.2	84.7	157.7	311.3	761.9	1632.0	1880.1	1796.6	1514.7
47.5°	60.2	64.0	70.4	84.3	149.2	302.8	773.0	1699.1	1934.3	1844.8	1567.3
50°	59.6	63.8	75.4	80.3	137.7	292.4	810.5	1779.2	1991.3	1898.8	1635.3
52.5°	58.5	63.6	80.5	77.2	122.8	277.9	871.1	1892.2	2089.6	2004.1	1736.0
55°	57.2	64.0	77.0	72.3	107.1	259.3	931.9	2047.1	2249.3	2174.0	1880.4
57.5°	55.7	63.4	72.8	67.8	94.1	235.9	978.1	2174.2	2381.0	2349.1	2057.9
60°	54.5	64.9	65.3	65.1	85.6	213.4	982.4	2166.0	2418.9	2462.8	2231.7
62.5°	53.2	66.3	59.6	63.2	81.3	192.6	927.7	2031.8	2354.7	2448.2	2373.4
65°	51.5	57.9	56.6	61.4	81.3	181.5	800.2	1808.6	2177.8	2309.8	2450.3
67.5°	49.6	52.6	54.3	59.0	83.2	171.1	643.0	1525.5	1898.4	2086.7	2363.9
70°	47.3	49.6	51.8	56.8	82.3	163.9	506.0	1222.8	1562.3	1777.7	2124.8
72.5°	44.9	46.8	49.0	53.4	82.3	160.4	406.6	959.2	1192.8	1374.3	1760.0
75°	41.7	43.2	45.3	50.0	80.7	146.8	305.2	768.5	872.8	986.5	1388.8
77.5°	38.4	39.4	41.1	46.0	72.8	122.6	216.0	595.1	646.6	709.7	1082.6
80°	34.1	35.0	36.1	41.1	60.2	95.1	140.6	465.5	483.5	513.8	712.3
82.5°	29.3	30.6	30.8	35.3	48.6	68.9	83.5	319.0	318.8	363.4	502.5
85°	24.0	24.7	25.1	27.7	35.9	46.0	54.9	174.2	155.3	217.7	436.4
87.5°	18.0	17.2	18.0	18.7	23.7	27.0	29.5	32.1	19.3	39.4	253.9
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1186.4	1199.4	1191.7	1182.3	1159.2	1124.9	1098.8	1076.0
5°	1270.8	1294.9	1284.3	1249.8	1189.4	1120.9	1049.0	1005.1
7.5°	1260.2	1308.1	1303.9	1246.3	1159.8	1058.9	957.7	899.7
10°	1175.2	1242.3	1253.8	1194.8	1103.3	990.4	873.2	807.8
12.5°	1082.4	1139.0	1162.4	1140.0	1053.8	939.2	819.8	754.3
15°	1004.8	1033.4	1056.6	1071.0	1017.7	921.0	810.5	743.1
17.5°	947.4	942.0	961.4	996.0	998.1	945.1	852.5	777.2
20°	919.8	876.2	887.5	936.2	992.8	1006.6	936.6	847.5
22.5°	918.2	850.3	852.5	904.9	1008.2	1090.5	1041.5	939.8
25°	942.1	847.5	849.4	901.4	1035.1	1174.9	1162.6	1044.3
27.5°	982.8	859.9	858.5	916.2	1071.4	1245.3	1285.0	1172.0
30°	1027.0	877.9	874.5	939.6	1106.8	1288.8	1371.9	1268.1
32.5°	1082.0	909.8	898.2	974.0	1141.8	1330.5	1446.2	1358.1
35°	1134.3	956.5	939.8	1023.2	1179.3	1376.8	1529.4	1457.7
37.5°	1187.6	1026.4	1017.1	1094.1	1232.3	1427.0	1624.5	1570.5
40°	1256.2	1125.7	1121.3	1197.3	1303.0	1482.2	1731.0	1688.1
42.5°	1330.0	1231.1	1227.4	1315.6	1390.8	1537.3	1822.3	1788.9
45°	1405.2	1359.0	1359.9	1442.0	1483.2	1589.5	1894.2	1869.6
47.5°	1493.8	1498.9	1530.6	1573.0	1573.2	1647.4	1957.8	1944.7
50°	1606.4	1667.9	1726.5	1733.0	1664.1	1724.1	2035.6	2030.7
52.5°	1733.9	1862.7	1930.7	1909.6	1752.8	1819.2	2150.6	2150.5
55°	1885.4	2066.5	2130.5	2094.6	1859.0	1943.2	2301.0	2291.1
57.5°	2042.2	2262.4	2314.0	2267.2	1991.7	2087.5	2451.7	2400.0
60°	2211.8	2431.1	2483.6	2413.3	2140.8	2231.3	2551.5	2430.6
62.5°	2322.8	2529.6	2567.4	2500.1	2274.1	2377.9	2583.5	2394.1
65°	2328.6	2464.1	2474.1	2450.1	2330.9	2505.2	2537.1	2285.6
67.5°	2170.3	2178.4	2191.4	2217.1	2209.7	2448.4	2357.5	2032.5
70°	1832.0	1725.5	1768.6	1793.3	1849.3	2177.8	2025.7	1653.1
72.5°	1400.7	1245.3	1294.1	1285.7	1401.8	1786.2	1549.7	1273.3
75°	1008.2	849.2	853.0	853.4	1007.3	1425.8	1056.6	904.2
77.5°	685.1	601.0	613.4	605.5	674.1	1117.0	760.8	651.7
80°	468.6	466.4	469.0	450.9	449.5	722.0	563.2	519.8
82.5°	347.6	321.2	317.5	298.1	344.5	552.0	427.7	373.5
85°	274.3	177.8	154.5	186.4	298.3	507.8	260.7	191.5
87.5°	116.2	69.8	42.3	83.8	165.7	372.2	72.3	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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