

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: P198746

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198746  
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-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3599.8 lumens  
Efficiency: N/A  
Efficacy: 105.9 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

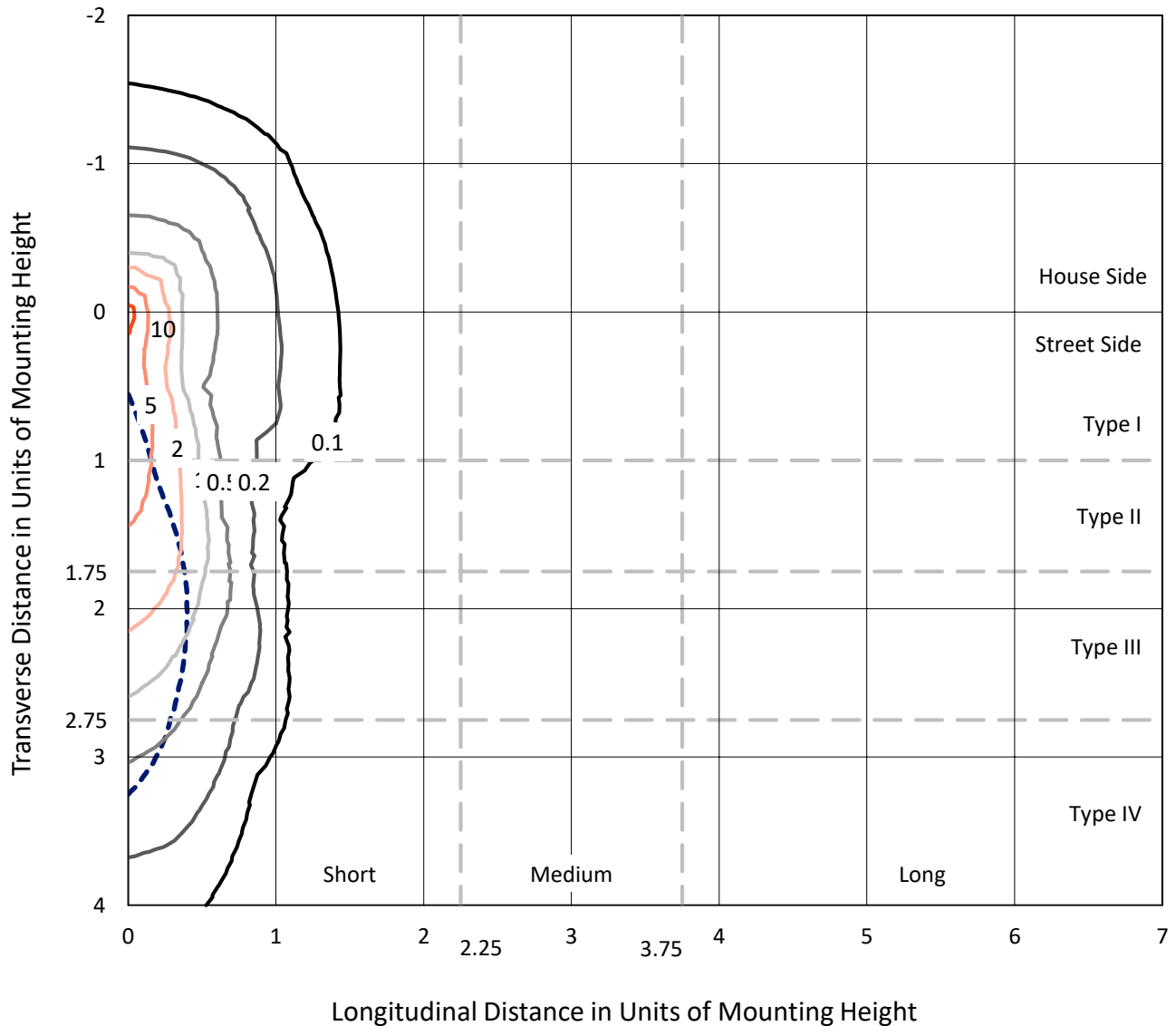


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### Iso-Footcandle Lines of Horizontal Illumination

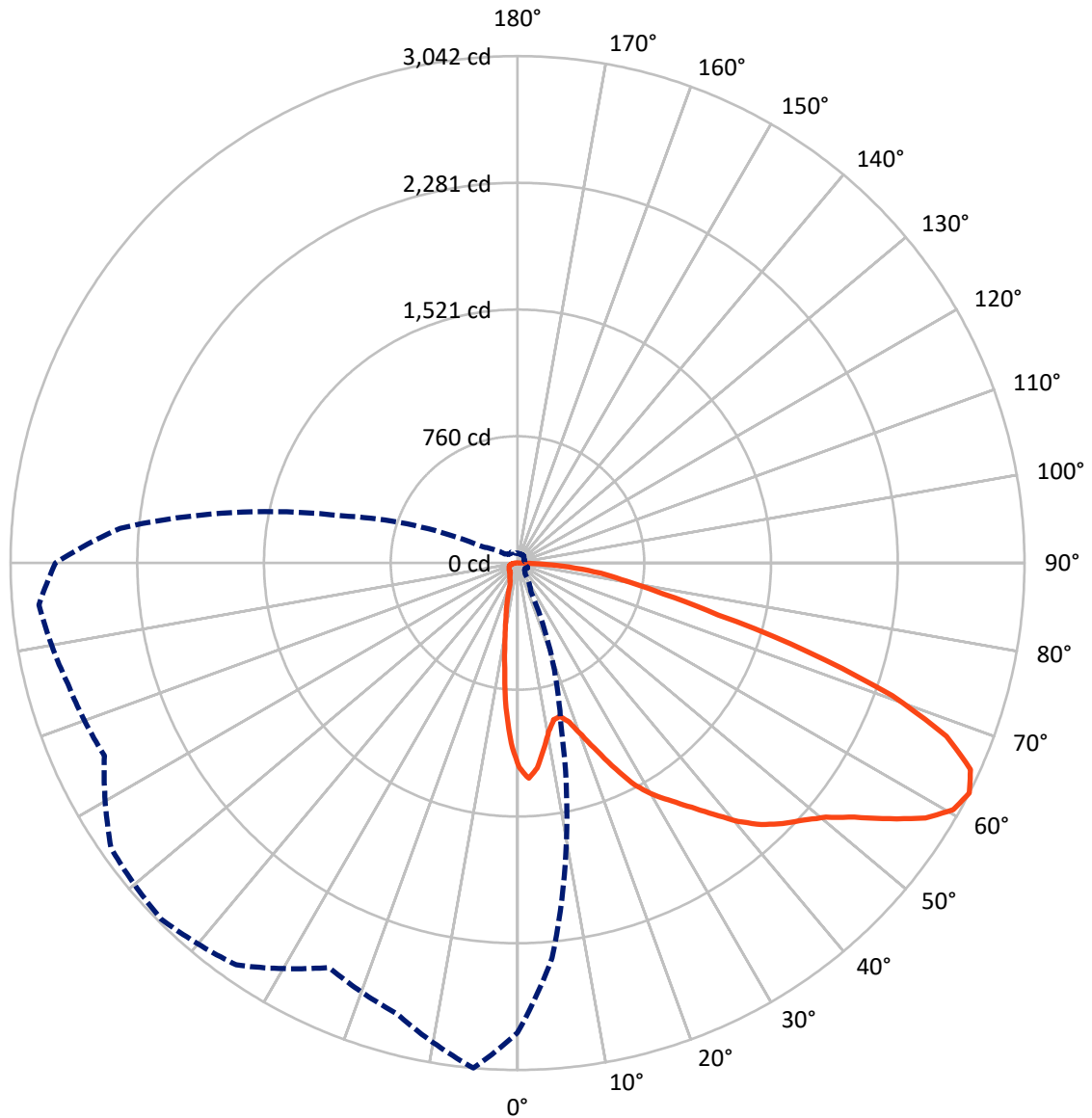
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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
<b>House Side</b>	Lumens	637.7	0.0	637.7
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	2962.1	0.0	2962.1
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	3599.8	0.0	3599.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	2.5
10°-20°	163.0	4.5
20°-30°	234.5	6.5
30°-40°	359.1	10.0
40°-50°	525.0	14.6
50°-60°	763.9	21.2
60°-70°	885.1	24.6
70°-80°	461.4	12.8
80°-90°	118.6	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°	3599.8	100.0
0°-180°	3599.8	100.0



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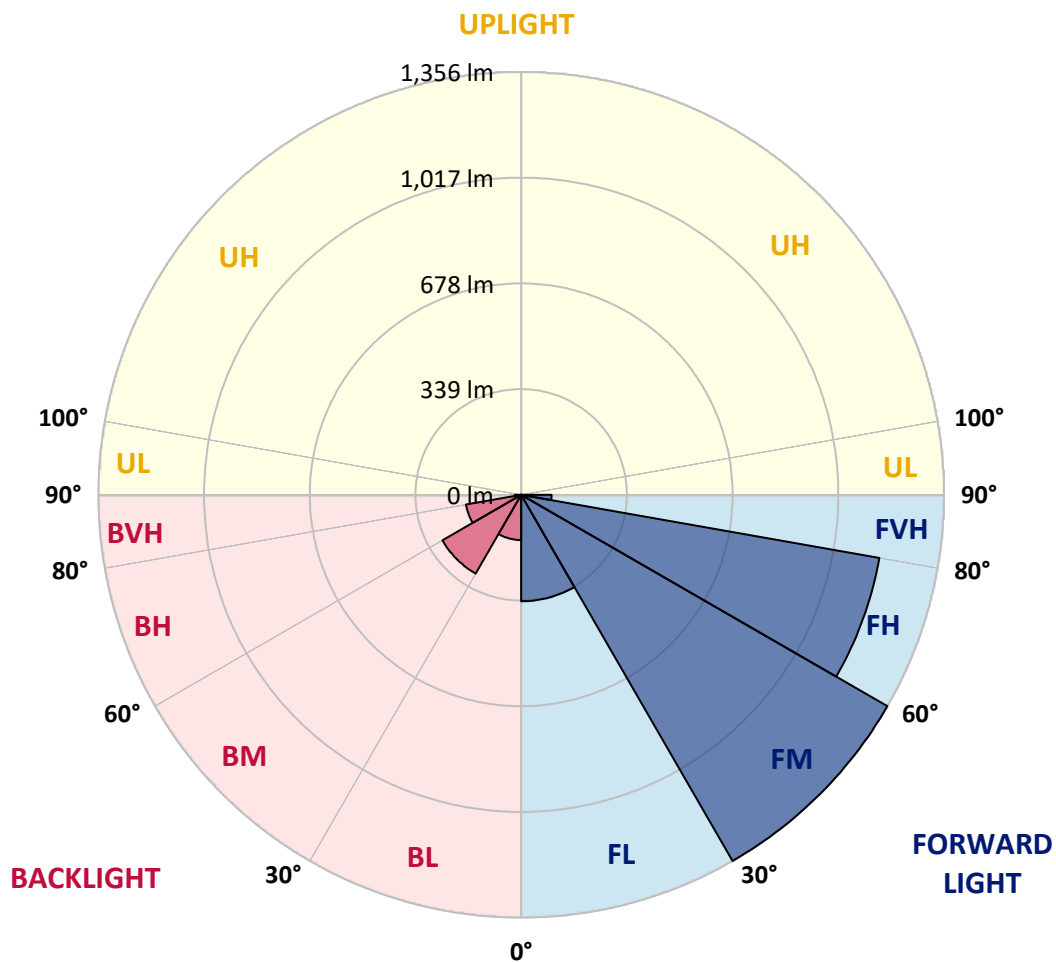
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.6	9.5			
FM	(30°-60°)	1356.2	37.7			
FH	(60°-80°)	1166.6	32.4			G1/1800
FVH	(80°-90°)	97.6	2.7			G1/100
BL	(0°-30°)	145.1	4.0	B1/500		
BM	(30°-60°)	291.8	8.1	B1/1000		
BH	(60°-80°)	179.8	5.0	B1/500		G1/500
BVH	(80°-90°)	21.0	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°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1266.9	1249.1	1208.2	1172.2	1127.3	1093.6	1052.6	1030.9	1015.1	1004.3	995.7
5°	1183.3	1140.6	1062.2	993.6	919.5	866.0	803.3	769.2	748.0	736.5	731.3
7.5°	1059.4	1002.8	901.5	809.4	716.7	649.9	602.4	551.8	524.9	507.4	501.7
10°	951.1	887.1	766.3	662.7	591.2	543.7	503.0	456.5	422.1	392.0	380.8
12.5°	888.2	813.8	676.0	582.3	522.2	471.4	428.3	378.2	341.9	310.6	298.6
15°	874.8	791.9	638.1	531.1	457.6	396.2	344.5	290.0	254.5	228.6	220.2
17.5°	915.0	812.7	622.3	484.5	395.7	320.8	257.1	198.7	169.1	155.1	151.6
20°	997.8	858.7	614.7	442.4	335.6	246.9	177.8	134.9	120.3	116.1	115.9
22.5°	1106.6	933.3	623.0	408.0	279.3	182.2	130.2	110.9	105.0	102.6	102.6
25°	1229.6	1034.3	645.2	381.6	229.7	141.7	112.2	101.8	96.9	94.5	94.7
27.5°	1380.0	1157.3	675.5	357.3	194.2	124.2	105.0	96.1	91.0	88.7	89.0
30°	1493.2	1263.0	701.5	335.1	175.9	117.2	101.0	92.7	87.2	83.8	83.5
32.5°	1599.2	1356.1	722.7	319.2	165.5	104.6	91.3	85.1	80.4	76.5	75.7
35°	1716.3	1443.9	732.6	318.6	158.7	94.5	83.5	75.9	71.3	66.8	66.1
37.5°	1849.2	1551.1	741.0	321.8	155.1	88.0	79.9	72.5	68.6	64.2	63.1
40°	1987.5	1656.1	747.5	324.4	154.5	83.5	77.0	70.5	66.6	61.9	60.8
42.5°	2106.3	1748.9	756.4	323.4	150.9	82.8	75.2	68.6	65.0	60.3	59.0
45°	2201.3	1822.8	770.2	323.2	145.4	84.6	74.7	68.1	63.7	58.7	57.7
47.5°	2289.8	1906.1	799.4	322.1	139.3	84.1	77.5	67.6	63.1	58.2	57.4
50°	2391.0	2018.1	849.3	314.3	131.0	80.4	82.8	67.1	61.9	57.4	56.7
52.5°	2532.0	2182.0	923.2	300.1	119.6	76.5	83.5	66.8	59.7	55.9	54.8
55°	2697.7	2357.6	1002.8	279.8	104.4	69.7	79.4	65.8	57.7	53.5	52.0
57.5°	2825.9	2487.3	1058.3	250.5	89.5	65.8	70.7	63.4	55.0	50.9	49.6
60°	2861.9	2493.1	1068.3	215.6	81.9	63.1	60.8	69.2	53.0	48.6	47.3
62.5°	2818.8	2379.1	1003.5	191.1	79.4	60.6	55.3	66.1	50.9	46.4	45.1
65°	2691.2	2186.5	858.7	187.4	81.9	58.2	52.5	52.7	48.8	44.4	43.1
67.5°	2393.1	1903.0	676.5	189.8	85.1	55.9	50.3	48.0	46.4	42.6	41.0
70°	1946.3	1532.1	533.0	194.0	88.0	52.7	47.8	44.9	43.6	39.4	38.7
72.5°	1499.2	1226.2	420.4	191.1	90.8	49.6	44.1	41.7	40.2	36.3	35.5
75°	1064.6	974.4	309.0	163.9	83.3	45.1	39.9	37.8	36.5	32.3	32.1
77.5°	767.3	729.8	215.0	123.2	65.8	39.7	35.2	33.5	32.6	27.9	27.9
80°	612.0	555.5	128.7	80.4	48.0	32.8	29.5	28.7	27.9	23.2	23.5
82.5°	439.8	385.2	82.2	50.1	35.2	25.1	23.0	22.7	21.4	17.2	17.2
85°	225.5	196.8	52.7	33.7	24.8	16.2	15.1	14.6	13.8	10.7	10.7
87.5°	43.9	60.3	29.3	16.5	12.0	5.7	5.7	4.9	5.7	3.9	4.2
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°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1012.2	1007.0	1003.3	1001.5	1027.9	1038.8	1051.3	1069.3	1081.6	1076.3	1093.1
5°	755.9	759.5	767.8	780.9	817.7	835.2	846.4	861.3	872.0	861.3	879.0
7.5°	516.8	522.2	540.0	566.9	611.3	630.9	634.7	635.0	632.7	615.2	627.2
10°	380.5	369.6	373.5	392.8	432.5	450.0	451.8	447.1	446.3	439.3	452.9
12.5°	294.9	279.8	270.9	274.0	303.8	318.1	320.5	323.2	333.8	337.2	353.9
15°	220.0	212.2	205.7	202.7	222.4	233.6	234.9	241.2	252.4	255.5	269.9
17.5°	154.8	156.8	160.3	161.5	175.6	183.0	180.9	180.9	182.7	181.9	190.0
20°	118.3	122.4	128.9	135.2	148.0	152.2	146.9	140.5	136.3	134.1	136.0
22.5°	104.4	107.3	111.4	119.6	130.2	132.4	125.5	120.3	116.4	114.4	114.6
25°	96.9	99.7	103.1	109.7	118.8	119.8	113.5	110.2	107.0	105.0	104.4
27.5°	90.3	92.2	94.2	98.4	107.8	108.3	104.1	102.1	99.9	98.4	97.9
30°	84.3	85.1	85.8	90.0	97.1	97.9	95.7	94.7	94.0	92.9	92.9
32.5°	76.5	77.5	78.9	82.4	89.3	90.3	89.0	88.2	87.0	86.4	85.6
35°	67.1	69.7	72.5	77.0	84.3	84.8	83.3	80.9	77.7	77.0	76.5
37.5°	63.1	63.7	67.3	72.5	80.1	80.6	78.6	74.7	72.3	72.5	73.0
40°	60.6	61.4	63.4	68.6	76.2	77.0	75.2	72.3	70.0	70.2	71.0
42.5°	58.5	59.5	60.8	64.2	71.8	73.3	72.8	70.2	67.8	68.3	69.5
45°	57.4	58.2	58.2	60.6	67.8	70.2	70.5	68.3	66.6	67.1	68.3
47.5°	56.9	56.9	56.2	57.9	65.3	67.6	68.1	67.1	66.1	66.6	67.8
50°	56.2	55.0	54.3	55.9	63.1	65.3	65.8	65.0	65.5	66.6	67.3
52.5°	53.8	52.7	52.7	53.8	61.1	63.1	63.4	62.9	63.9	65.3	66.6
55°	50.9	50.9	51.1	52.2	60.0	61.6	61.4	60.8	61.9	63.4	64.8
57.5°	48.3	48.0	49.3	50.6	58.7	59.7	59.2	59.2	60.0	61.4	62.6
60°	46.7	45.4	46.4	48.6	57.4	58.5	57.7	57.4	58.7	59.7	60.8
62.5°	45.1	43.9	44.6	46.7	55.5	56.4	55.9	55.9	57.2	57.9	59.0
65°	42.8	42.2	42.8	44.9	54.0	54.3	54.3	54.5	55.5	56.2	57.2
67.5°	40.7	40.7	41.0	43.1	52.7	52.2	52.2	53.5	53.8	54.3	55.3
70°	38.2	38.7	38.7	41.2	51.7	49.8	50.1	51.1	51.7	52.2	52.5
72.5°	35.2	35.5	36.0	39.4	50.1	47.5	47.8	48.6	48.8	49.6	49.8
75°	32.1	32.3	33.1	37.5	49.1	45.1	44.6	45.1	45.7	46.2	45.9
77.5°	28.4	28.9	29.8	36.5	45.7	44.6	40.7	41.2	41.7	41.7	41.5
80°	24.0	24.8	26.1	35.0	38.7	43.1	36.3	36.5	36.8	36.8	36.3
82.5°	18.0	19.5	21.4	28.9	30.3	36.8	31.3	31.8	31.1	30.6	30.3
85°	11.8	13.1	15.7	20.0	22.2	28.9	25.9	26.1	24.6	24.2	24.2
87.5°	4.7	4.9	7.1	10.2	13.3	18.0	18.5	19.0	17.7	17.7	18.3
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1118.4	1144.5	1174.6	1205.0	1230.1	1262.4	1293.8	1327.2	1344.2	1354.1	1382.0
5°	906.7	942.4	985.0	1032.8	1072.5	1140.3	1213.4	1294.9	1334.0	1372.6	1445.7
7.5°	648.6	683.5	733.1	795.0	851.4	940.9	1037.3	1147.3	1201.7	1264.3	1384.1
10°	481.5	518.6	563.5	615.9	671.6	764.8	872.8	996.5	1056.3	1127.0	1263.2
12.5°	390.5	433.8	480.3	527.2	575.0	637.6	750.9	888.4	952.7	1023.9	1160.4
15°	304.6	351.1	401.2	452.3	499.8	569.8	685.4	848.0	921.4	990.2	1101.9
17.5°	215.6	259.4	315.8	378.0	446.8	529.6	671.3	865.7	954.7	1026.7	1101.7
20°	146.9	177.2	233.6	307.2	392.3	497.3	676.5	928.1	1039.3	1118.4	1146.8
22.5°	117.4	131.8	169.9	244.8	345.3	473.7	698.0	1013.7	1160.6	1257.0	1229.1
25°	106.8	114.9	134.7	193.4	303.5	458.1	739.7	1126.8	1296.7	1394.3	1328.0
27.5°	100.2	107.3	120.1	159.0	267.5	447.8	792.7	1259.9	1449.8	1530.0	1431.1
30°	96.1	103.1	114.9	142.8	240.4	432.7	839.1	1381.5	1572.3	1624.2	1486.7
32.5°	88.0	93.4	103.1	127.9	220.0	415.0	879.3	1490.3	1687.9	1705.2	1553.5
35°	79.6	85.3	95.0	115.9	208.1	401.2	900.5	1586.9	1802.4	1786.1	1619.7
37.5°	76.5	81.2	90.0	107.3	201.5	392.0	908.6	1681.9	1925.4	1875.6	1666.0
40°	74.4	78.6	86.4	101.6	199.7	383.4	906.7	1772.2	2044.7	1968.3	1702.3
42.5°	72.8	76.5	83.8	97.6	194.7	375.3	900.7	1850.2	2140.2	2048.0	1737.0
45°	71.5	75.4	82.8	99.7	185.6	366.4	897.0	1921.5	2213.6	2115.5	1783.4
47.5°	71.0	75.4	83.0	99.2	175.6	356.5	910.1	2000.6	2277.5	2172.0	1845.3
50°	70.2	75.2	88.7	94.5	162.0	344.2	954.2	2094.8	2344.6	2235.8	1925.4
52.5°	68.9	74.9	94.7	90.8	144.6	327.3	1025.7	2227.9	2460.5	2359.7	2043.9
55°	67.3	75.4	90.5	85.1	126.0	305.4	1097.2	2410.4	2648.4	2559.6	2214.1
57.5°	65.5	74.7	85.6	79.9	110.7	277.7	1151.5	2559.9	2803.4	2765.9	2423.2
60°	64.2	76.5	77.0	76.7	100.8	251.3	1156.8	2550.2	2848.1	2899.8	2627.8
62.5°	62.6	78.1	70.2	74.4	95.7	226.8	1092.3	2392.4	2772.6	2882.5	2794.5
65°	60.6	68.1	66.6	72.3	95.7	213.8	942.2	2129.5	2564.1	2719.6	2885.1
67.5°	58.5	61.9	63.9	69.5	97.9	201.5	757.2	1796.2	2235.2	2456.8	2783.3
70°	55.5	58.5	61.1	66.8	96.9	192.9	595.9	1439.7	1839.6	2093.3	2501.7
72.5°	53.0	55.0	57.7	62.9	96.9	188.9	478.6	1129.3	1404.4	1618.2	2072.4
75°	49.1	50.9	53.2	59.0	95.0	172.8	359.4	904.9	1027.6	1161.5	1635.2
77.5°	45.1	46.4	48.3	54.0	85.6	144.3	254.2	700.8	761.4	835.4	1274.7
80°	40.2	41.2	42.6	48.3	71.0	112.0	165.5	548.1	569.3	605.0	838.6
82.5°	34.5	36.0	36.3	41.5	57.2	81.2	98.4	375.6	375.3	427.8	591.7
85°	28.2	28.9	29.5	32.6	42.2	54.0	64.8	205.1	183.0	256.4	513.9
87.5°	21.2	20.4	21.2	21.9	27.9	31.8	34.7	37.8	22.7	46.4	298.8
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1396.8	1412.3	1403.2	1392.1	1364.8	1324.6	1293.8	1266.9
5°	1496.4	1524.8	1512.2	1471.5	1400.5	1319.9	1235.1	1183.3
7.5°	1483.8	1540.2	1535.2	1467.3	1365.5	1246.8	1127.5	1059.4
10°	1383.5	1462.6	1476.2	1406.8	1299.0	1166.2	1028.1	951.1
12.5°	1274.5	1341.0	1368.7	1342.3	1240.8	1105.9	965.2	888.2
15°	1183.1	1216.8	1244.2	1261.2	1198.3	1084.4	954.2	874.8
17.5°	1115.5	1109.0	1132.0	1172.7	1175.3	1112.9	1003.8	915.0
20°	1082.9	1031.7	1045.0	1102.2	1169.0	1185.2	1102.7	997.8
22.5°	1081.1	1001.2	1003.8	1065.4	1187.0	1283.9	1226.2	1106.6
25°	1109.3	997.8	1000.1	1061.5	1218.8	1383.3	1368.9	1229.6
27.5°	1157.3	1012.4	1010.9	1078.7	1261.4	1466.3	1513.0	1380.0
30°	1209.2	1033.6	1029.7	1106.4	1303.1	1517.4	1615.3	1493.2
32.5°	1274.0	1071.1	1057.6	1146.8	1344.5	1566.5	1702.8	1599.2
35°	1335.6	1126.3	1106.6	1204.8	1388.6	1621.1	1800.7	1716.3
37.5°	1398.5	1208.4	1197.5	1288.3	1451.0	1680.3	1912.6	1849.2
40°	1479.1	1325.3	1320.1	1409.6	1534.1	1745.1	2038.1	1987.5
42.5°	1566.0	1449.6	1445.1	1549.1	1637.5	1810.0	2145.7	2106.3
45°	1654.5	1600.2	1601.2	1697.8	1746.4	1871.4	2230.2	2201.3
47.5°	1758.9	1764.9	1802.2	1852.1	1852.4	1939.7	2305.2	2289.8
50°	1891.4	1963.8	2032.7	2040.5	1959.4	2030.0	2396.8	2391.0
52.5°	2041.6	2193.2	2273.3	2248.5	2063.7	2142.1	2532.2	2532.0
55°	2219.8	2433.1	2508.5	2466.2	2188.8	2287.9	2709.2	2697.7
57.5°	2404.7	2663.8	2724.6	2669.5	2345.1	2457.8	2886.7	2825.9
60°	2604.2	2862.4	2924.3	2841.6	2520.4	2627.2	3004.1	2861.9
62.5°	2735.1	2978.5	3022.9	2943.5	2677.6	2799.8	3041.9	2818.8
65°	2741.8	2901.3	2913.1	2884.8	2744.5	2949.6	2987.1	2691.2
67.5°	2555.4	2564.8	2580.3	2610.6	2601.7	2882.8	2775.8	2393.1
70°	2156.9	2031.7	2082.3	2111.5	2177.2	2564.1	2385.0	1946.3
72.5°	1649.3	1466.3	1523.7	1513.8	1650.5	2103.2	1824.6	1499.2
75°	1187.0	999.9	1004.3	1004.8	1186.0	1678.8	1244.2	1064.6
77.5°	806.8	707.6	722.2	713.1	793.7	1315.2	895.8	767.3
80°	551.8	549.1	552.3	530.9	529.3	850.1	663.2	612.0
82.5°	409.3	378.2	373.8	351.1	405.6	649.9	503.5	439.8
85°	322.8	209.3	181.9	219.5	351.3	597.9	307.0	225.5
87.5°	136.8	82.2	49.8	98.6	195.2	438.2	85.1	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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