

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: P198747

Luminaire Tested: **XNV2-AF-02-LED-U-SLR-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198747
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: XNV2-AF-02-LED-U-SLR-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7178.1 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

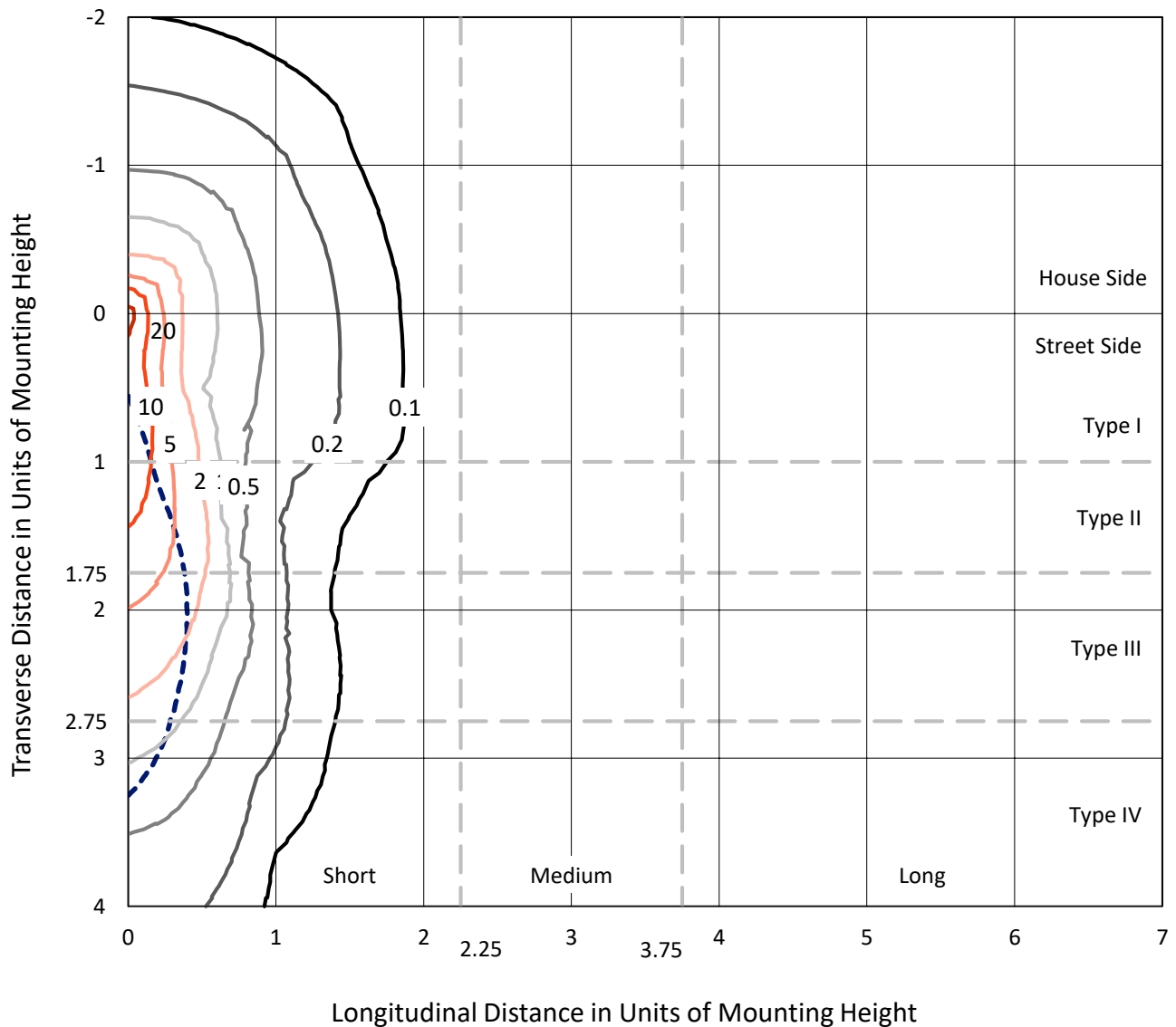


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

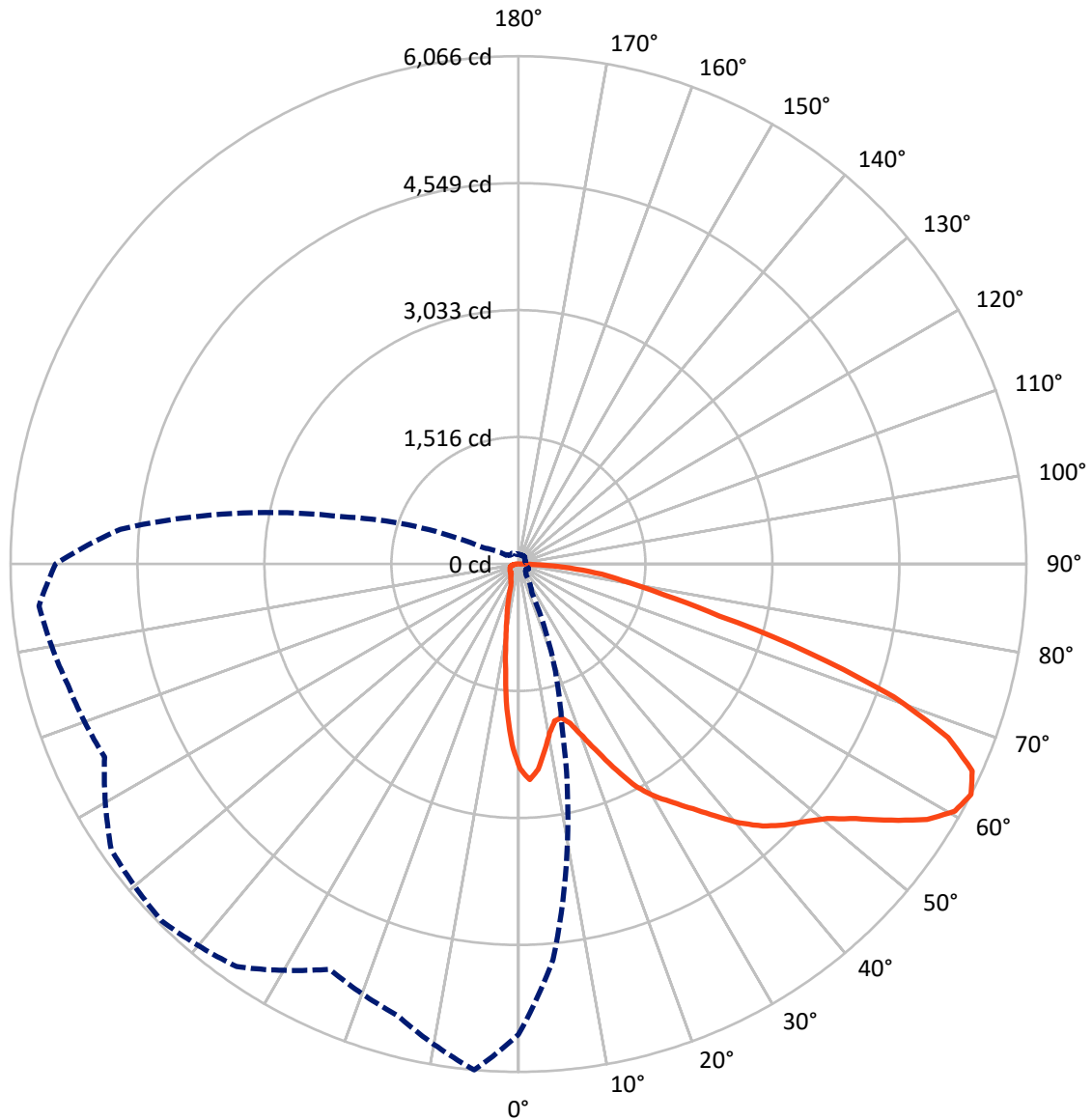


Based on 10 foot mounting height. Maximum calculated value = 24.5 fc
 Type IV - Short - Non-Cutoff

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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	1271.6	0.0	1271.6
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	5906.5	0.0	5906.5
	% Fixture	82.3	0.0	82.3
Total	Lumens	7178.1	0.0	7178.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	2.5
10°-20°	325.1	4.5
20°-30°	467.5	6.5
30°-40°	716.0	10.0
40°-50°	1046.9	14.6
50°-60°	1523.2	21.2
60°-70°	1764.9	24.6
70°-80°	920.0	12.8
80°-90°	236.5	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°	7178.1	100.0
0°-180°	7178.1	100.0



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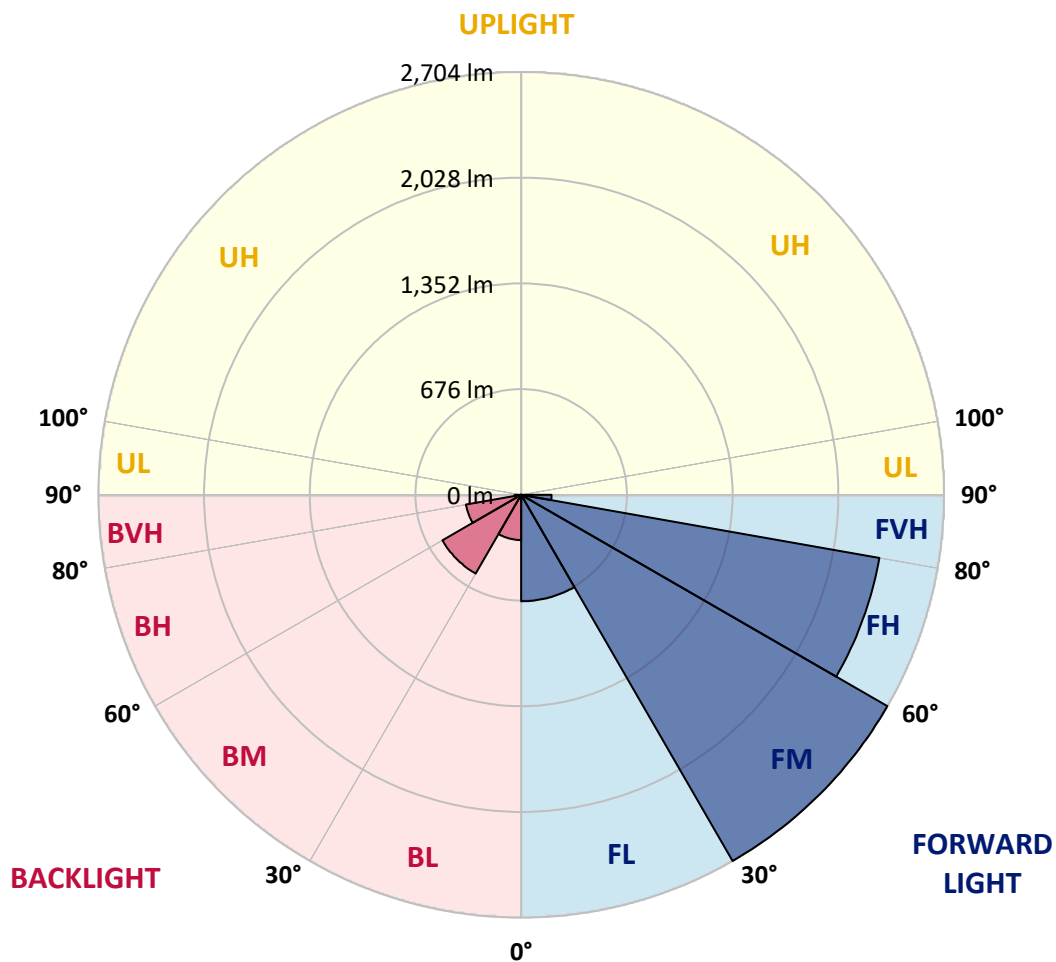
CATALOG NUMBER: XNV2-AF-02-LED-U-SLR-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.2	9.5			
FM	(30°-60°)	2704.4	37.7			
FH	(60°-80°)	2326.3	32.4			G2/5000
FVH	(80°-90°)	194.6	2.7			G2/225
BL	(0°-30°)	289.3	4.0	B1/500		
BM	(30°-60°)	581.8	8.1	B1/1000		
BH	(60°-80°)	358.6	5.0	B1/500		G1/500
BVH	(80°-90°)	41.9	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°	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1
2.5°	2526.3	2490.9	2409.2	2337.3	2247.8	2180.6	2099.0	2055.7	2024.0	2002.6	1985.5
5°	2359.7	2274.3	2118.2	1981.4	1833.5	1726.8	1601.9	1533.7	1491.6	1468.7	1458.3
7.5°	2112.5	1999.6	1797.6	1613.9	1429.2	1295.9	1201.1	1100.2	1046.6	1011.7	1000.3
10°	1896.6	1769.0	1528.0	1321.4	1178.8	1084.1	1002.9	910.2	841.6	781.7	759.3
12.5°	1771.0	1622.7	1347.9	1161.2	1041.4	939.9	854.1	754.1	681.8	619.3	595.4
15°	1744.5	1579.0	1272.4	1059.1	912.4	790.0	687.0	578.2	507.5	455.9	439.3
17.5°	1824.6	1620.7	1240.7	966.0	789.0	639.7	512.6	396.1	337.3	309.1	302.4
20°	1989.6	1712.3	1225.7	882.2	669.3	492.3	354.5	269.0	239.9	231.6	231.1
22.5°	2206.7	1861.2	1242.3	813.5	556.9	363.2	259.7	221.2	209.2	204.5	204.5
25°	2451.8	2062.6	1286.6	760.9	458.0	282.6	223.8	203.0	193.1	188.4	188.9
27.5°	2751.6	2307.7	1346.9	712.5	387.2	247.8	209.2	191.5	181.7	177.0	177.5
30°	2977.5	2518.4	1399.0	668.3	350.8	233.6	201.4	184.7	173.8	167.0	166.5
32.5°	3188.7	2704.3	1441.1	636.5	330.0	208.7	182.2	169.7	160.3	152.5	150.9
35°	3422.5	2879.1	1460.9	635.5	316.4	188.4	166.5	151.5	142.1	133.2	131.7
37.5°	3687.3	3093.0	1477.6	641.7	309.1	175.4	159.3	144.6	136.9	128.1	125.9
40°	3963.2	3302.2	1490.5	646.9	308.1	166.5	153.5	140.6	132.7	123.4	121.2
42.5°	4200.0	3487.5	1508.2	644.9	300.8	165.0	149.9	136.9	129.6	120.2	117.6
45°	4389.5	3634.7	1535.9	644.4	289.9	168.6	148.8	135.8	126.9	117.1	115.0
47.5°	4565.8	3800.8	1594.2	642.2	277.9	167.6	154.6	134.8	125.9	116.1	114.5
50°	4767.8	4024.1	1693.5	626.7	261.3	160.3	165.0	133.8	123.4	114.5	112.9
52.5°	5048.9	4350.9	1840.8	598.5	238.3	152.5	166.5	133.2	119.2	111.4	109.3
55°	5379.3	4701.2	1999.6	557.9	208.2	138.9	158.3	131.1	115.0	106.7	103.5
57.5°	5634.8	4959.9	2110.4	499.6	178.5	131.1	141.1	126.4	109.9	101.5	98.9
60°	5706.7	4971.3	2130.2	429.8	163.5	125.9	121.2	137.9	105.7	96.8	94.2
62.5°	5620.8	4743.8	2001.1	380.9	158.3	120.7	110.4	131.7	101.5	92.7	90.0
65°	5366.3	4359.8	1712.3	373.7	163.5	116.1	104.6	105.2	97.3	88.5	85.8
67.5°	4772.0	3794.5	1349.0	378.4	169.7	111.4	100.5	95.7	92.7	84.8	81.7
70°	3881.0	3055.0	1062.7	386.7	175.4	105.2	95.2	89.5	87.0	78.6	77.0
72.5°	2989.5	2445.1	838.4	380.9	181.2	98.9	88.0	83.3	80.2	72.3	70.8
75°	2122.9	1942.8	616.2	326.8	166.0	90.0	79.6	75.5	72.8	64.5	64.0
77.5°	1530.1	1455.1	428.8	245.6	131.1	79.1	70.3	66.6	65.1	55.6	55.6
80°	1220.5	1107.5	256.6	160.3	95.7	65.6	58.8	57.3	55.6	46.3	46.9
82.5°	877.0	768.1	164.0	99.9	70.3	49.9	45.8	45.3	42.7	34.4	34.4
85°	449.7	392.4	105.2	67.1	49.4	32.2	30.2	29.2	27.6	21.4	21.4
87.5°	87.5	120.2	58.3	32.8	23.9	11.5	11.5	9.9	11.5	7.8	8.3
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°	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1
2.5°	2018.3	2007.8	2000.6	1996.9	2049.5	2071.4	2096.3	2132.2	2156.7	2146.4	2179.6
5°	1507.2	1514.5	1531.2	1557.1	1630.6	1665.5	1687.8	1717.4	1738.8	1717.4	1752.8
7.5°	1030.5	1041.4	1076.8	1130.4	1218.8	1257.9	1265.7	1266.2	1261.6	1226.7	1250.7
10°	758.8	736.9	744.7	783.3	862.3	897.2	900.9	891.5	890.0	876.0	903.0
12.5°	588.1	557.9	540.2	546.5	605.8	634.4	639.1	644.4	665.6	672.4	705.7
15°	438.7	423.1	410.1	404.4	443.4	465.7	468.4	480.9	503.3	509.5	538.2
17.5°	308.6	312.8	319.6	322.1	350.3	364.8	360.7	360.7	364.3	362.7	378.9
20°	235.8	244.1	257.1	269.5	295.1	303.4	293.0	280.0	271.7	267.5	271.2
22.5°	208.2	213.9	222.2	238.3	259.7	263.8	250.3	239.9	232.1	227.9	228.4
25°	193.1	198.9	205.6	218.6	236.8	238.9	226.4	219.6	213.4	209.2	208.2
27.5°	180.0	183.7	187.9	196.2	214.9	215.9	207.7	203.5	199.4	196.2	195.2
30°	168.1	169.7	171.2	179.5	193.6	195.2	191.0	188.9	187.4	185.3	185.3
32.5°	152.5	154.6	157.1	164.5	178.0	180.0	177.5	175.9	173.3	172.3	170.7
35°	133.8	138.9	144.6	153.5	168.1	169.2	166.0	161.3	155.1	153.5	152.5
37.5°	125.9	126.9	134.3	144.6	159.8	160.8	156.6	148.8	144.1	144.6	145.8
40°	120.7	122.3	126.4	136.9	152.0	153.5	149.9	144.1	139.5	140.0	141.6
42.5°	116.6	118.7	121.2	128.1	143.1	146.3	145.2	140.0	135.3	136.4	138.4
45°	114.5	116.1	116.1	120.7	135.3	140.0	140.6	136.4	132.7	133.8	136.4
47.5°	113.4	113.4	111.9	115.5	130.1	134.8	135.8	133.8	131.7	132.7	135.3
50°	111.9	109.9	108.2	111.4	125.9	130.1	131.1	129.6	130.6	132.7	134.3
52.5°	107.2	105.2	105.2	107.2	121.8	125.9	126.4	125.4	127.5	130.1	132.7
55°	101.5	101.5	102.0	104.1	119.7	122.9	122.3	121.2	123.4	126.4	129.1
57.5°	96.3	95.7	98.4	101.0	117.1	119.2	118.2	118.2	119.7	122.3	124.9
60°	93.2	90.5	92.7	96.8	114.5	116.6	115.0	114.5	117.1	119.2	121.2
62.5°	90.0	87.5	89.0	93.2	110.9	112.4	111.4	111.4	114.0	115.5	117.6
65°	85.3	84.3	85.3	89.5	107.7	108.2	108.2	108.7	110.9	111.9	114.0
67.5°	81.2	81.2	81.7	85.8	105.2	104.1	104.1	106.7	107.2	108.2	110.4
70°	76.0	77.0	77.0	82.2	103.0	99.4	99.9	102.0	103.0	104.1	104.6
72.5°	70.3	70.8	71.8	78.6	99.9	94.7	95.2	96.8	97.3	98.9	99.4
75°	64.0	64.5	66.1	75.0	97.8	90.0	89.0	90.0	91.0	92.2	91.6
77.5°	56.8	57.8	59.3	72.8	91.0	89.0	81.2	82.2	83.3	83.3	82.8
80°	47.9	49.4	52.1	69.8	77.0	85.8	72.3	72.8	73.3	73.3	72.3
82.5°	35.9	39.1	42.7	57.8	60.4	73.3	62.5	63.5	61.9	60.9	60.4
85°	23.4	26.0	31.2	40.1	44.2	57.8	51.6	52.1	48.9	48.4	48.4
87.5°	9.4	9.9	14.0	20.3	26.5	35.9	36.9	38.0	35.4	35.4	36.4
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°	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1
2.5°	2230.1	2282.2	2342.0	2402.9	2452.8	2517.4	2579.9	2646.5	2680.3	2700.1	2755.7
5°	1808.1	1879.4	1964.2	2059.4	2138.5	2273.8	2419.6	2581.9	2660.0	2737.0	2882.8
7.5°	1293.3	1363.1	1461.9	1585.3	1697.7	1876.2	2068.3	2287.9	2396.2	2521.1	2759.9
10°	960.2	1034.1	1123.6	1228.3	1339.1	1524.9	1740.3	1987.1	2106.3	2247.3	2518.9
12.5°	778.6	865.0	957.6	1051.3	1146.5	1271.4	1497.3	1771.6	1899.6	2041.7	2313.9
15°	607.3	700.0	799.9	901.9	996.7	1136.1	1366.7	1690.9	1837.2	1974.6	2197.3
17.5°	429.8	517.3	629.7	753.6	891.0	1056.0	1338.6	1726.3	1903.8	2047.4	2196.8
20°	293.0	353.4	465.7	612.5	782.3	991.4	1349.0	1850.7	2072.4	2230.1	2286.8
22.5°	234.2	262.8	338.8	488.2	688.5	944.6	1391.7	2021.5	2314.4	2506.4	2450.8
25°	212.9	229.0	268.5	385.7	605.3	913.4	1475.0	2246.8	2585.6	2780.2	2648.0
27.5°	199.9	213.9	239.4	316.9	533.5	893.0	1580.6	2512.2	2891.1	3050.8	2853.6
30°	191.5	205.6	229.0	284.7	479.4	862.9	1673.2	2754.7	3135.1	3238.8	2964.5
32.5°	175.4	186.3	205.6	255.0	438.7	827.5	1753.3	2971.8	3365.7	3400.1	3097.7
35°	158.8	170.2	189.5	231.1	414.8	799.9	1795.6	3164.3	3594.2	3561.4	3229.9
37.5°	152.5	161.8	179.5	213.9	401.8	781.7	1811.6	3353.7	3839.3	3739.9	3322.0
40°	148.3	156.6	172.3	202.4	398.1	764.6	1808.1	3533.8	4077.2	3924.7	3394.4
42.5°	145.2	152.5	167.0	194.7	388.2	748.4	1796.1	3689.5	4267.6	4083.9	3463.6
45°	142.6	150.4	165.0	198.9	370.0	730.7	1788.7	3831.6	4413.9	4218.2	3556.2
47.5°	141.6	150.4	165.5	197.7	350.3	711.0	1814.8	3989.2	4541.4	4331.2	3679.6
50°	140.0	149.9	177.0	188.4	323.2	686.5	1902.8	4177.1	4675.2	4458.1	3839.3
52.5°	137.4	149.4	188.9	181.2	288.4	652.6	2045.4	4442.6	4906.3	4705.4	4075.6
55°	134.3	150.4	180.6	169.7	251.3	609.0	2188.0	4806.3	5281.0	5104.0	4415.0
57.5°	130.6	148.8	170.7	159.3	220.7	553.7	2296.2	5104.5	5590.1	5515.1	4831.8
60°	128.1	152.5	153.5	153.0	200.9	501.1	2306.7	5085.3	5679.1	5782.1	5239.9
62.5°	124.9	155.6	140.0	148.3	191.0	452.2	2178.1	4770.4	5528.7	5747.9	5572.4
65°	120.7	135.8	132.7	144.1	191.0	426.3	1878.9	4246.4	5112.9	5423.1	5753.0
67.5°	116.6	123.4	127.5	138.4	195.2	401.8	1509.8	3581.8	4457.1	4898.9	5550.0
70°	110.9	116.6	121.8	133.2	193.1	384.6	1188.2	2870.8	3668.1	4173.9	4988.5
72.5°	105.7	109.9	115.0	125.4	193.1	376.8	954.5	2251.9	2800.5	3226.8	4132.3
75°	97.8	101.5	106.2	117.6	189.5	344.5	716.7	1804.4	2049.0	2316.0	3260.6
77.5°	90.0	92.7	96.3	107.7	170.7	287.8	506.9	1397.4	1518.2	1666.0	2541.8
80°	80.2	82.2	84.8	96.3	141.6	223.3	330.0	1092.9	1135.1	1206.4	1672.2
82.5°	68.7	71.8	72.3	82.8	114.0	161.8	196.2	748.9	748.4	853.0	1179.9
85°	56.2	57.8	58.8	65.1	84.3	107.7	129.1	409.1	364.8	511.1	1024.8
87.5°	42.1	40.6	42.1	43.7	55.6	63.5	69.3	75.5	45.3	92.7	595.9
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°	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1
2.5°	2785.4	2816.2	2797.9	2776.1	2721.5	2641.3	2579.9	2526.3
5°	2983.7	3040.4	3015.5	2934.2	2792.8	2631.8	2462.8	2359.7
7.5°	2958.8	3071.1	3061.3	2925.9	2723.0	2486.2	2248.3	2112.5
10°	2758.9	2916.5	2943.6	2805.2	2590.2	2325.4	2050.0	1896.6
12.5°	2541.3	2674.1	2729.2	2676.7	2474.2	2205.2	1924.6	1771.0
15°	2359.2	2426.3	2481.0	2514.8	2389.4	2162.4	1902.8	1744.5
17.5°	2224.4	2211.4	2257.1	2338.4	2343.6	2219.2	2001.6	1824.6
20°	2159.3	2057.4	2083.9	2197.8	2331.1	2363.3	2198.9	1989.6
22.5°	2155.7	1996.4	2001.6	2124.5	2367.0	2560.0	2445.1	2206.7
25°	2211.9	1989.6	1994.3	2116.7	2430.5	2758.4	2729.7	2451.8
27.5°	2307.7	2018.8	2015.7	2151.0	2515.3	2923.9	3017.0	2751.6
30°	2411.2	2060.9	2053.2	2206.2	2598.6	3025.9	3221.1	2977.5
32.5°	2540.3	2135.9	2108.8	2286.8	2680.8	3123.7	3395.4	3188.7
35°	2663.2	2245.7	2206.7	2402.4	2768.8	3232.5	3590.6	3422.5
37.5°	2788.6	2409.7	2387.8	2568.9	2893.2	3350.7	3813.9	3687.3
40°	2949.4	2642.8	2632.5	2811.0	3059.1	3479.7	4064.2	3963.2
42.5°	3122.7	2890.6	2881.8	3088.8	3265.3	3609.3	4278.6	4200.0
45°	3299.1	3190.9	3192.9	3385.5	3482.3	3731.6	4447.2	4389.5
47.5°	3507.3	3519.3	3593.7	3693.1	3693.6	3868.0	4596.6	4565.8
50°	3771.7	3915.9	4053.2	4068.9	3907.0	4048.0	4779.2	4767.8
52.5°	4070.9	4373.3	4533.1	4483.7	4115.1	4271.3	5049.4	5048.9
55°	4426.4	4851.7	5002.0	4917.7	4364.4	4562.3	5402.2	5379.3
57.5°	4794.9	5311.7	5432.9	5323.1	4676.2	4901.1	5756.1	5634.8
60°	5193.0	5707.8	5831.1	5666.1	5026.0	5238.8	5990.3	5706.7
62.5°	5453.8	5939.4	6027.8	5869.6	5339.3	5582.9	6065.8	5620.8
65°	5467.3	5785.3	5808.7	5752.5	5472.5	5881.6	5956.5	5366.3
67.5°	5095.7	5114.4	5145.1	5205.5	5187.8	5748.4	5535.0	4772.0
70°	4301.0	4051.2	4152.2	4210.4	4341.6	5112.9	4755.8	3881.0
72.5°	3288.7	2923.9	3038.4	3018.6	3291.3	4193.8	3638.4	2989.5
75°	2367.0	1993.8	2002.6	2003.8	2364.9	3347.5	2481.0	2122.9
77.5°	1608.7	1411.0	1440.1	1421.9	1582.7	2622.5	1786.2	1530.1
80°	1100.2	1095.1	1101.3	1058.5	1055.5	1695.1	1322.5	1220.5
82.5°	816.1	754.1	745.3	700.0	808.7	1295.9	1003.9	877.0
85°	643.7	417.4	362.7	437.7	700.5	1192.4	612.0	449.7
87.5°	272.7	164.0	99.4	196.7	389.3	873.8	169.7	87.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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