

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: P198739

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198739  
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-SLL-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT 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

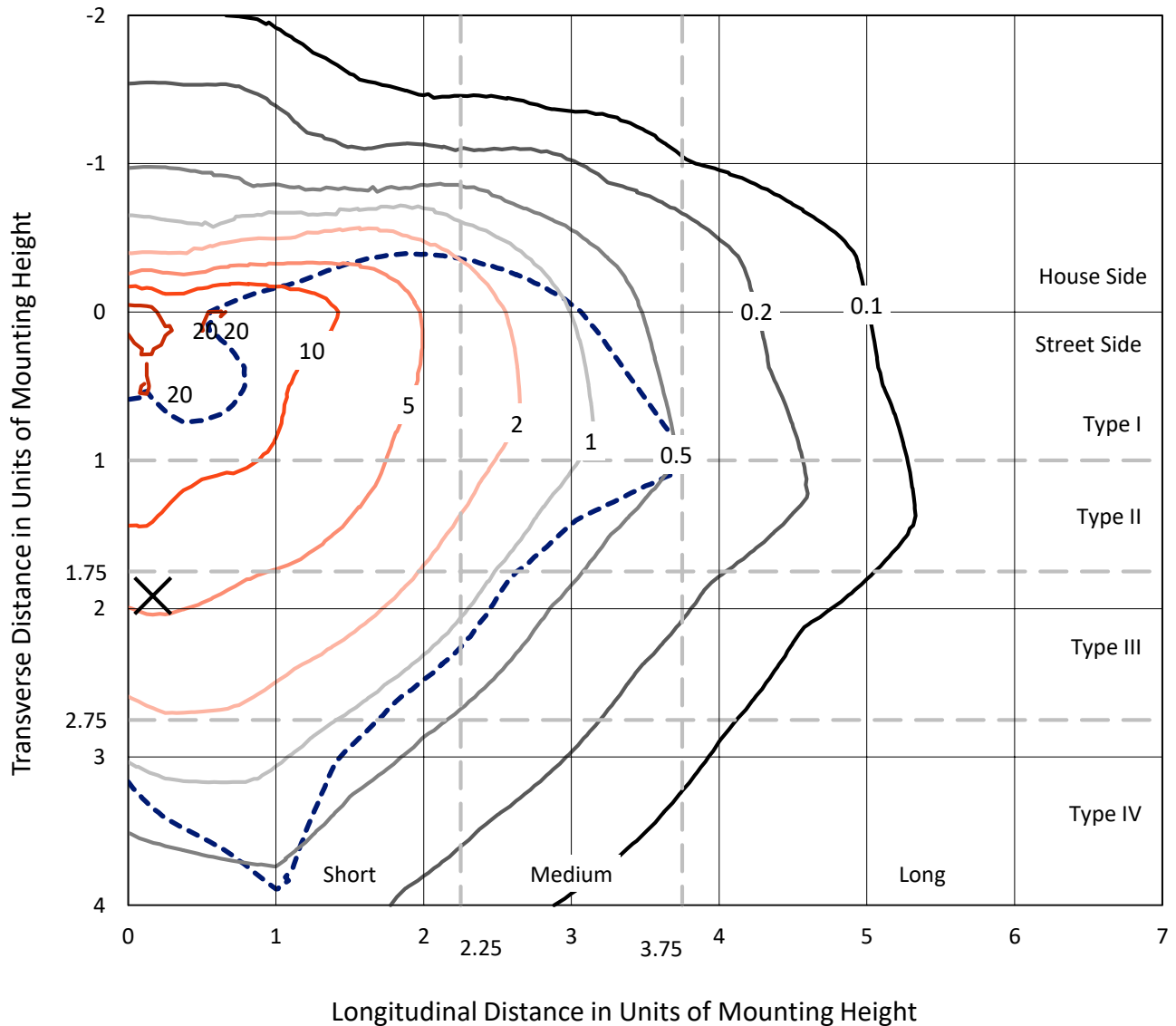
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

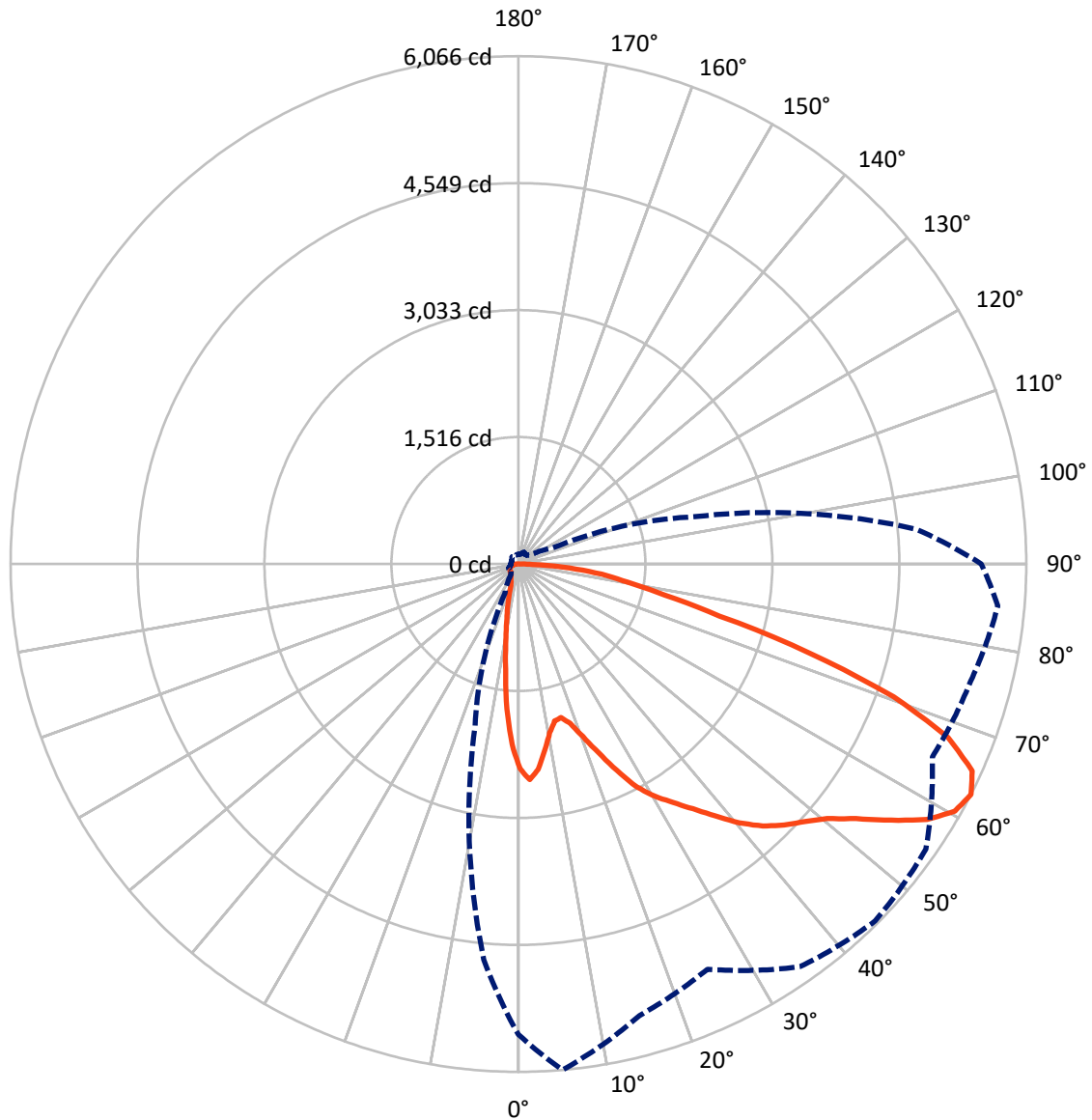
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.1 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
<b>House Side</b>	Lumens	1271.6	0.0	1271.6
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	5906.5	0.0	5906.5
	% Fixture	82.3	0.0	82.3
<b>Total</b>	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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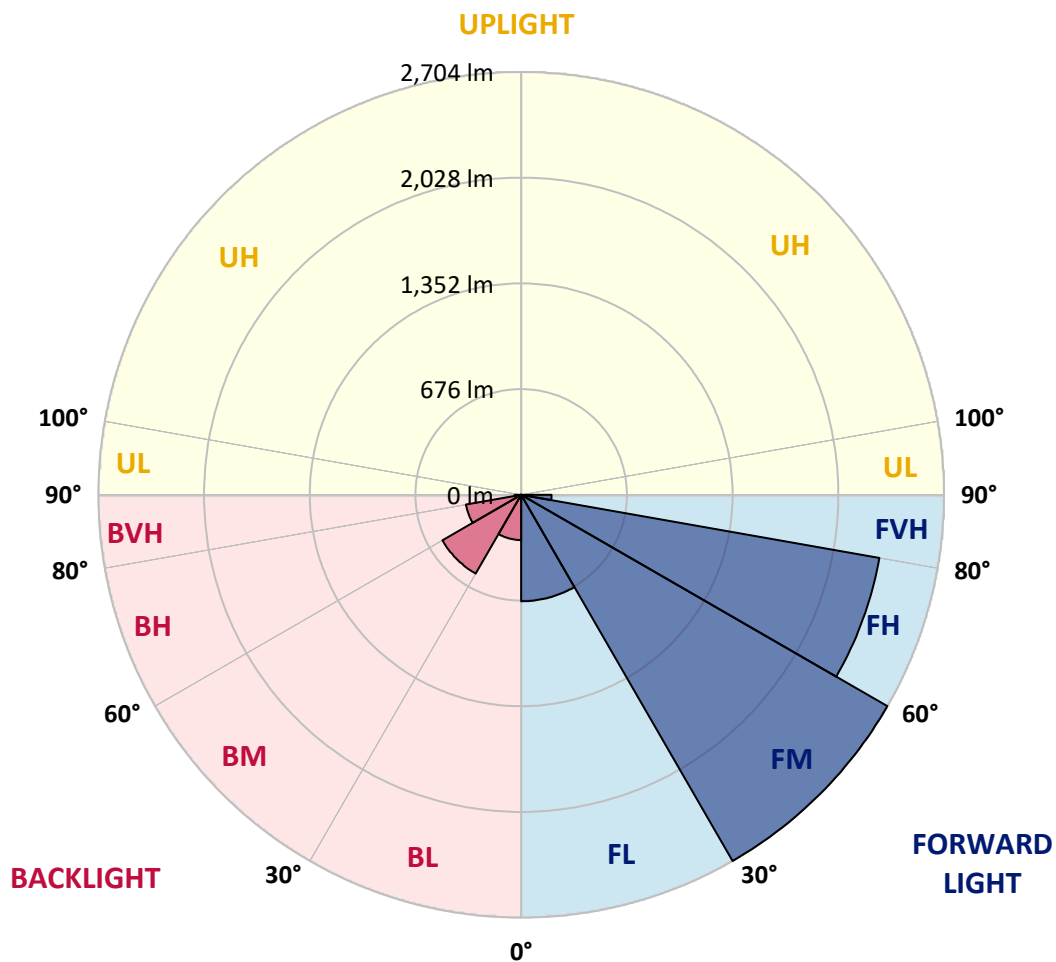
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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

	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°	2055.7	2099.0	2180.6	2247.8	2337.3	2409.2	2490.9	2526.3
5°	1533.7	1601.9	1726.8	1833.5	1981.4	2118.2	2274.3	2359.7
7.5°	1100.2	1201.1	1295.9	1429.2	1613.9	1797.6	1999.6	2112.5
10°	910.2	1002.9	1084.1	1178.8	1321.4	1528.0	1769.0	1896.6
12.5°	754.1	854.1	939.9	1041.4	1161.2	1347.9	1622.7	1771.0
15°	578.2	687.0	790.0	912.4	1059.1	1272.4	1579.0	1744.5
17.5°	396.1	512.6	639.7	789.0	966.0	1240.7	1620.7	1824.6
20°	269.0	354.5	492.3	669.3	882.2	1225.7	1712.3	1989.6
22.5°	221.2	259.7	363.2	556.9	813.5	1242.3	1861.2	2206.7
25°	203.0	223.8	282.6	458.0	760.9	1286.6	2062.6	2451.8
27.5°	191.5	209.2	247.8	387.2	712.5	1346.9	2307.7	2751.6
30°	184.7	201.4	233.6	350.8	668.3	1399.0	2518.4	2977.5
32.5°	169.7	182.2	208.7	330.0	636.5	1441.1	2704.3	3188.7
35°	151.5	166.5	188.4	316.4	635.5	1460.9	2879.1	3422.5
37.5°	144.6	159.3	175.4	309.1	641.7	1477.6	3093.0	3687.3
40°	140.6	153.5	166.5	308.1	646.9	1490.5	3302.2	3963.2
42.5°	136.9	149.9	165.0	300.8	644.9	1508.2	3487.5	4200.0
45°	135.8	148.8	168.6	289.9	644.4	1535.9	3634.7	4389.5
47.5°	134.8	154.6	167.6	277.9	642.2	1594.2	3800.8	4565.8
50°	133.8	165.0	160.3	261.3	626.7	1693.5	4024.1	4767.8
52.5°	133.2	166.5	152.5	238.3	598.5	1840.8	4350.9	5048.9
55°	131.1	158.3	138.9	208.2	557.9	1999.6	4701.2	5379.3
57.5°	126.4	141.1	131.1	178.5	499.6	2110.4	4959.9	5634.8
60°	137.9	121.2	125.9	163.5	429.8	2130.2	4971.3	5706.7
62.5°	131.7	110.4	120.7	158.3	380.9	2001.1	4743.8	5620.8
65°	105.2	104.6	116.1	163.5	373.7	1712.3	4359.8	5366.3
67.5°	95.7	100.5	111.4	169.7	378.4	1349.0	3794.5	4772.0
70°	89.5	95.2	105.2	175.4	386.7	1062.7	3055.0	3881.0
72.5°	83.3	88.0	98.9	181.2	380.9	838.4	2445.1	2989.5
75°	75.5	79.6	90.0	166.0	326.8	616.2	1942.8	2122.9
77.5°	66.6	70.3	79.1	131.1	245.6	428.8	1455.1	1530.1
80°	57.3	58.8	65.6	95.7	160.3	256.6	1107.5	1220.5
82.5°	45.3	45.8	49.9	70.3	99.9	164.0	768.1	877.0
85°	29.2	30.2	32.2	49.4	67.1	105.2	392.4	449.7
87.5°	9.9	11.5	11.5	23.9	32.8	58.3	120.2	87.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)