

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: P271329

Luminaire Tested: **XNV2-AF-02-LED-U-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271329
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-7027
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 9252.4 lumens
Efficiency: N/A
Efficacy: 83.4 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 - G3

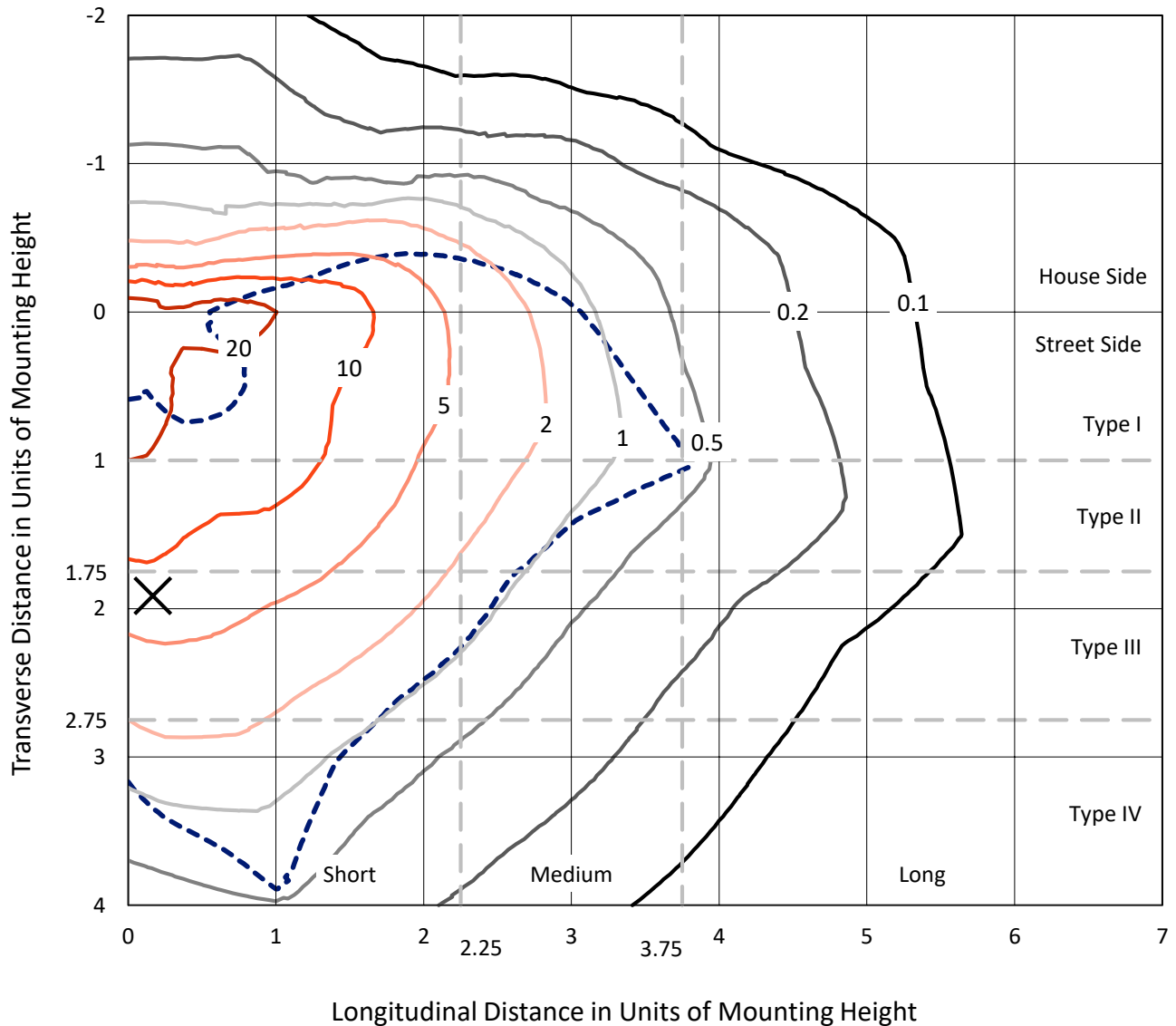
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

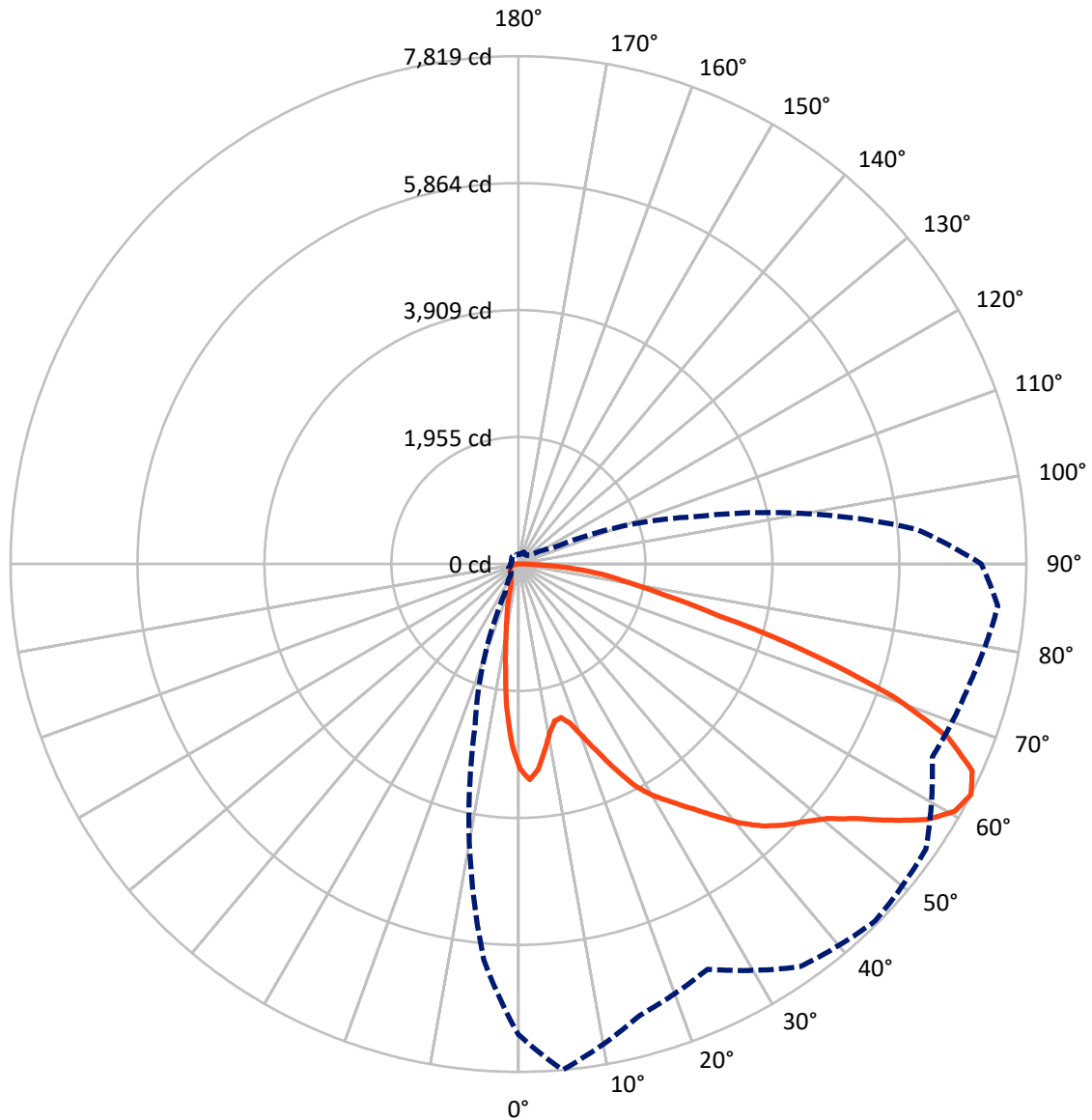
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.2 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
House Side	Lumens	1639.1	0.0	1639.1
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	7613.3	0.0	7613.3
	% Fixture	82.3	0.0	82.3
Total	Lumens	9252.4	0.0	9252.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	2.5
10°-20°	419.0	4.5
20°-30°	602.6	6.5
30°-40°	923.0	10.0
40°-50°	1349.4	14.6
50°-60°	1963.4	21.2
60°-70°	2274.9	24.6
70°-80°	1185.9	12.8
80°-90°	304.8	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°	9252.4	100.0
0°-180°	9252.4	100.0



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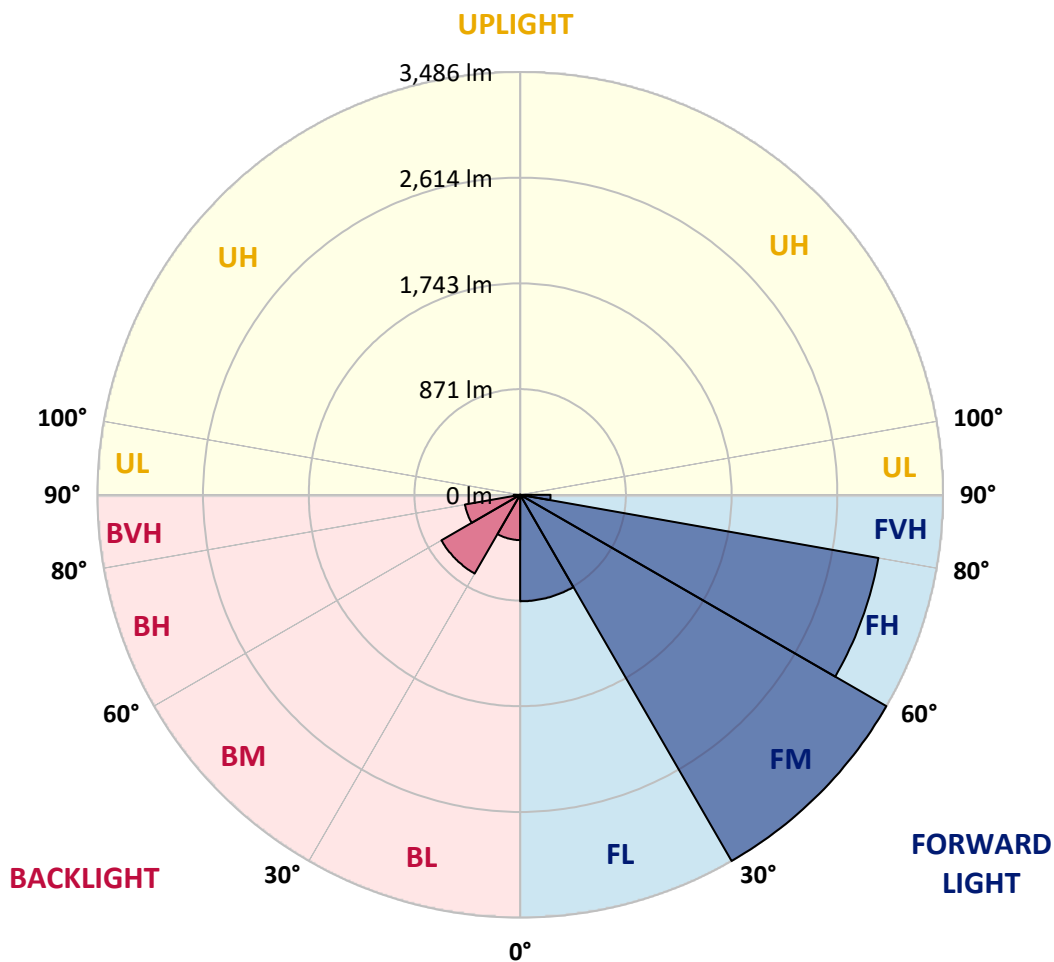
CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.1	9.5			
FM	(30°-60°)	3485.9	37.7			
FH	(60°-80°)	2998.6	32.4			G2/5000
FVH	(80°-90°)	250.8	2.7			G3/500
BL	(0°-30°)	372.9	4.0	B1/500		
BM	(30°-60°)	749.9	8.1	B1/1000		
BH	(60°-80°)	462.2	5.0	B1/500		G1/500
BVH	(80°-90°)	54.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	3256.3	3325.3	3404.5	3507.9	3578.3	3606.4	3630.1	3590.3	3552.2	3480.4	3454.9
5°	3041.7	3174.5	3392.4	3599.8	3782.3	3886.8	3919.1	3846.0	3715.7	3528.1	3428.7
7.5°	2723.0	2898.1	3204.7	3509.9	3771.5	3946.0	3958.7	3813.8	3557.5	3249.6	3088.6
10°	2444.6	2642.5	2997.4	3338.8	3615.9	3794.4	3759.4	3556.2	3247.0	2896.8	2714.9
12.5°	2283.0	2480.8	2842.3	3189.3	3450.2	3517.9	3446.8	3275.8	2982.6	2631.8	2448.6
15°	2248.6	2452.6	2787.4	3079.8	3241.5	3198.0	3127.4	3040.9	2832.4	2545.2	2368.1
17.5°	2352.0	2580.1	2860.6	3020.8	3014.2	2909.5	2850.4	2867.2	2831.6	2639.1	2454.0
20°	2564.7	2834.3	3046.3	3004.7	2833.1	2686.1	2651.8	2783.4	2947.7	2874.5	2671.3
22.5°	2844.5	3151.7	3300.0	3051.1	2738.5	2580.1	2573.4	2778.6	3159.0	3230.8	2983.4
25°	3160.3	3518.7	3555.5	3132.8	2728.3	2570.7	2564.7	2851.1	3413.3	3583.7	3332.8
27.5°	3546.8	3888.9	3768.7	3242.3	2772.6	2598.2	2602.2	2974.6	3678.3	3932.5	3726.6
30°	3837.9	4151.8	3900.4	3349.6	2843.8	2646.4	2656.6	3108.0	3821.2	4174.8	4041.1
32.5°	4110.4	4376.6	4026.5	3455.5	2947.7	2718.4	2753.1	3274.4	3992.8	4382.7	4338.4
35°	4411.4	4628.2	4166.7	3569.0	3096.6	2844.5	2894.7	3432.8	4163.3	4590.6	4632.9
37.5°	4753.0	4916.0	4319.0	3729.3	3311.3	3077.9	3106.0	3594.4	4282.0	4820.8	4948.9
40°	5108.5	5238.6	4485.2	3943.3	3623.3	3393.2	3406.6	3801.6	4375.3	5058.9	5255.4
42.5°	5413.7	5515.1	4652.3	4208.9	3981.5	3714.5	3725.9	4025.0	4464.4	5264.2	5501.0
45°	5658.0	5732.4	4810.0	4488.7	4363.8	4115.7	4113.0	4252.5	4584.0	5437.3	5689.4
47.5°	5885.3	5925.0	4985.8	4761.0	4760.4	4632.2	4536.4	4520.9	4743.0	5582.7	5853.9
50°	6145.7	6160.3	5217.9	5036.1	5244.8	5224.6	5047.4	4861.6	4948.9	5746.5	6026.2
52.5°	6508.0	6508.6	5505.6	5304.4	5779.3	5843.0	5637.1	5247.4	5253.4	6065.1	6324.1
55°	6933.8	6963.4	5880.7	5625.7	6338.9	6447.6	6253.7	5705.6	5690.9	6579.0	6807.1
57.5°	7263.2	7419.6	6317.4	6027.5	6861.4	7002.9	6846.7	6180.6	6228.2	7108.9	7205.7
60°	7356.0	7721.6	6752.7	6478.3	7303.5	7516.2	7357.2	6693.7	6754.1	7453.1	7320.3
62.5°	7245.2	7818.8	7196.2	6882.3	7565.9	7769.8	7655.7	7029.9	7182.8	7409.0	7126.4
65°	6917.0	7677.9	7581.2	7054.0	7414.9	7487.4	7457.2	7047.3	7415.6	6990.3	6590.4
67.5°	6151.1	7134.5	7409.5	6687.1	6709.8	6632.0	6592.4	6568.2	7153.9	6314.7	5745.2
70°	5002.5	6130.3	6590.4	5596.3	5427.2	5352.0	5221.8	5543.9	6430.1	5380.2	4728.1
72.5°	3853.4	4690.0	5405.7	4242.4	3890.9	3916.4	3768.7	4239.1	5326.5	4159.2	3609.8
75°	2736.3	3198.0	4314.9	3048.4	2582.7	2581.4	2570.1	3051.1	4202.9	2985.2	2641.1
77.5°	1972.3	2302.4	3380.4	2040.1	1832.7	1856.3	1818.7	2073.6	3276.5	2147.4	1956.9
80°	1573.1	1704.7	2184.9	1360.6	1364.5	1419.5	1411.4	1418.2	2155.5	1555.1	1463.1
82.5°	1130.3	1294.1	1670.4	1042.6	902.3	960.6	972.1	1051.8	1520.8	1099.5	964.7
85°	579.6	788.9	1536.9	902.9	564.1	467.6	538.1	829.9	1320.9	658.7	470.3
87.5°	112.6	218.6	1126.4	501.9	253.6	128.1	211.3	351.5	768.1	119.5	58.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	3411.3	3325.3	3244.9	3161.8	3097.4	3018.8	2941.7	2874.5	2809.4	2766.6	2780.1
5°	3328.1	3118.7	2930.9	2756.4	2654.5	2531.9	2422.4	2330.6	2259.4	2213.9	2241.4
7.5°	2949.0	2666.0	2418.3	2188.4	2043.5	1884.5	1756.9	1667.1	1612.1	1581.1	1626.1
10°	2561.2	2243.2	1965.6	1726.2	1583.3	1448.3	1332.9	1237.8	1163.9	1129.0	1147.1
12.5°	2283.6	1930.1	1638.9	1477.9	1355.2	1234.5	1114.9	1003.5	909.7	866.8	858.1
15°	2179.6	1761.7	1464.4	1284.7	1162.5	1031.2	902.3	783.0	693.6	656.8	648.8
17.5°	2225.2	1725.5	1361.1	1148.6	971.3	811.7	666.8	554.2	488.4	467.6	469.6
20°	2385.5	1738.8	1278.0	1008.3	789.6	600.3	455.5	377.6	349.5	344.8	350.2
22.5°	2605.5	1793.8	1217.7	887.5	629.3	436.8	338.8	301.9	294.6	293.8	299.1
25°	2896.0	1901.3	1177.4	780.2	497.1	346.1	295.2	274.4	268.4	269.8	275.1
27.5°	3238.2	2037.4	1151.2	687.7	408.5	308.6	275.7	257.6	251.5	253.0	256.9
30°	3550.8	2156.8	1112.3	617.9	367.0	295.2	265.0	246.9	238.8	238.8	241.6
32.5°	3830.6	2260.0	1066.6	565.6	328.7	265.0	240.1	226.1	220.1	222.1	223.4
35°	4078.8	2314.5	1031.2	534.8	297.9	244.2	219.4	204.6	196.5	197.8	200.0
37.5°	4323.0	2335.2	1007.5	518.0	275.7	231.5	208.6	196.5	187.8	186.5	185.8
40°	4555.0	2330.6	985.5	513.2	261.0	222.1	201.8	191.2	182.4	180.5	179.8
42.5°	4755.6	2315.1	964.7	500.4	250.8	215.4	196.5	187.1	178.5	175.8	174.5
45°	4938.8	2305.7	941.9	477.0	256.2	212.7	193.9	183.9	175.8	172.5	171.0
47.5°	5142.1	2339.2	916.5	451.5	254.8	213.3	193.9	182.4	174.5	171.0	169.7
50°	5384.3	2452.6	884.8	416.6	242.8	228.1	193.2	180.5	173.1	171.0	168.4
52.5°	5726.3	2636.4	841.3	371.7	233.5	243.5	192.5	177.1	171.0	167.8	164.4
55°	6195.3	2820.3	784.8	324.0	218.6	232.8	193.9	173.1	166.4	163.0	159.0
57.5°	6579.6	2959.7	713.9	284.5	205.4	220.1	191.9	168.4	160.9	157.7	154.2
60°	6554.9	2973.2	646.1	258.9	197.3	197.8	196.5	165.0	156.3	153.6	150.9
62.5°	6149.0	2807.6	583.0	246.1	191.2	180.5	200.6	160.9	151.6	148.8	147.0
65°	5473.5	2421.8	549.5	246.1	185.8	171.0	175.1	155.6	147.0	144.3	142.9
67.5°	4616.7	1946.2	518.0	251.5	178.5	164.4	159.0	150.2	142.2	139.5	138.2
70°	3700.4	1531.5	495.8	248.9	171.8	156.9	150.2	142.9	134.8	134.1	132.8
72.5°	2902.8	1230.4	485.8	248.9	161.7	148.3	141.6	136.3	128.1	127.5	125.5
75°	2325.8	923.7	444.1	244.2	151.6	136.8	130.9	126.1	118.0	118.8	117.4
77.5°	1801.2	653.3	371.0	220.1	138.9	124.1	119.5	116.1	106.7	107.3	107.3
80°	1408.8	425.3	287.7	182.4	124.1	109.4	106.0	103.3	93.2	94.6	94.6
82.5°	965.4	253.0	208.6	147.0	106.7	93.2	92.5	88.6	77.9	78.5	79.8
85°	527.2	166.4	138.9	108.7	83.8	75.7	74.5	72.5	62.4	62.4	63.1
87.5°	97.2	89.2	81.8	71.8	56.4	54.3	52.3	54.3	46.9	45.6	45.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	2748.5	2702.2	2670.0	2641.8	2574.1	2578.8	2588.1	2601.5	2559.4	2581.4	2608.9
5°	2213.9	2175.5	2146.7	2101.8	2007.3	1973.7	1952.1	1942.8	1879.8	1893.2	1922.6
7.5°	1632.2	1631.5	1621.4	1571.1	1457.1	1388.1	1342.3	1328.2	1289.3	1304.1	1349.1
10°	1149.1	1161.2	1156.6	1111.7	1009.7	960.0	949.9	978.2	978.8	1007.5	1084.8
12.5°	830.6	823.7	817.7	780.8	704.5	696.4	719.2	758.1	767.4	798.4	878.8
15°	619.9	603.8	600.3	571.5	521.2	528.7	545.5	565.6	566.2	587.8	654.1
17.5°	465.0	465.0	470.3	451.5	415.2	412.0	403.2	397.8	389.8	398.5	434.7
20°	360.8	377.6	391.1	380.3	347.6	331.5	314.6	303.8	297.9	298.5	309.2
22.5°	309.2	322.8	340.1	334.8	307.2	286.5	275.7	268.4	263.7	263.7	269.8
25°	283.1	291.8	307.8	305.2	281.8	265.0	256.2	248.9	243.5	242.8	248.9
27.5°	262.3	267.6	278.5	277.0	253.0	242.2	236.9	232.1	228.8	228.1	234.1
30°	243.5	246.1	251.5	249.5	231.5	220.8	218.6	216.8	214.7	215.4	224.0
32.5°	226.7	228.8	232.1	229.4	212.0	202.6	199.2	196.5	194.6	196.5	206.6
35°	208.0	213.9	218.0	216.8	197.8	186.5	179.1	172.5	169.7	171.8	183.2
37.5°	191.9	201.8	207.2	205.9	186.5	173.1	163.8	162.4	162.4	165.0	176.4
40°	185.8	193.2	197.8	195.9	176.4	163.0	157.7	155.6	156.3	159.0	171.0
42.5°	180.5	187.1	188.6	184.5	165.0	156.3	152.9	150.2	151.6	155.0	167.1
45°	175.8	181.1	180.5	174.5	155.6	149.6	149.6	147.6	148.3	150.9	163.8
47.5°	172.5	175.1	173.7	167.8	148.8	144.3	146.2	146.2	147.6	149.6	162.4
50°	167.1	169.1	167.8	162.4	143.5	139.5	141.6	144.3	145.5	147.6	159.0
52.5°	161.7	163.0	162.4	156.9	138.2	135.6	135.6	138.2	140.9	143.5	153.6
55°	156.3	157.7	158.3	154.2	134.1	131.5	130.9	130.9	133.5	137.5	148.3
57.5°	152.4	152.4	153.6	150.9	130.2	126.8	123.4	124.1	127.5	130.9	141.6
60°	147.6	148.3	150.2	147.6	124.8	119.5	116.7	120.1	121.5	124.8	136.3
62.5°	143.5	143.5	144.8	142.9	120.1	114.8	112.6	116.1	116.1	119.5	130.9
65°	140.2	139.5	139.5	138.9	115.4	110.0	108.7	110.0	110.8	114.1	125.5
67.5°	137.5	134.1	134.1	135.6	110.8	105.3	104.7	104.7	105.3	109.4	119.5
70°	131.5	128.7	128.1	132.8	106.0	99.4	99.4	97.9	99.4	101.2	112.0
72.5°	124.8	122.8	122.1	128.7	101.2	92.5	91.3	90.5	91.3	93.2	103.3
75°	116.1	114.8	116.1	126.1	96.6	85.2	83.3	82.6	82.6	83.3	94.0
77.5°	106.0	104.7	114.8	117.4	94.0	76.4	74.5	73.1	71.8	71.8	83.8
80°	94.0	93.2	110.8	99.4	89.9	67.2	63.7	61.8	60.4	59.6	71.8
82.5°	81.8	80.5	94.6	77.9	74.5	54.9	50.3	46.4	44.2	44.2	54.9
85°	67.2	66.5	74.5	57.0	51.7	40.2	33.5	30.3	27.5	27.5	35.6
87.5°	49.0	47.6	46.4	34.2	26.2	18.1	12.8	12.0	10.7	10.2	14.7
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°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	2649.9	2705.5	2810.8	2897.5	3012.7	3105.4	3210.7	3256.3
5°	1977.0	2064.8	2225.9	2363.4	2553.9	2730.4	2931.6	3041.7
7.5°	1418.2	1548.3	1670.4	1842.2	2080.4	2317.1	2577.3	2723.0
10°	1173.4	1292.8	1397.4	1519.5	1703.2	1969.7	2280.2	2444.6
12.5°	972.1	1100.9	1211.5	1342.3	1496.7	1737.5	2091.8	2283.0
15°	745.4	885.5	1018.4	1176.1	1365.2	1640.2	2035.4	2248.6
17.5°	510.4	660.9	824.5	1017.1	1245.1	1599.3	2089.0	2352.0
20°	346.8	456.9	634.7	862.7	1137.1	1579.8	2207.0	2564.7
22.5°	285.1	334.8	468.2	717.8	1048.5	1601.3	2399.0	2844.5
25°	261.6	288.4	364.3	590.4	980.8	1658.4	2658.5	3160.3
27.5°	246.9	269.8	319.3	499.1	918.3	1736.2	2974.6	3546.8
30°	238.1	259.6	301.2	452.1	861.4	1803.3	3246.2	3837.9
32.5°	218.6	234.7	269.0	425.3	820.4	1857.5	3485.8	4110.4
35°	195.2	214.7	242.8	407.9	819.2	1883.0	3711.2	4411.4
37.5°	186.5	205.4	226.1	398.5	827.2	1904.5	3986.9	4753.0
40°	181.1	197.8	214.7	397.1	833.8	1921.4	4256.6	5108.5
42.5°	176.4	193.2	212.7	387.8	831.2	1944.1	4495.4	5413.7
45°	175.1	191.9	217.4	373.6	830.6	1979.7	4685.2	5658.0
47.5°	173.7	199.2	216.0	358.2	827.8	2054.9	4899.3	5885.3
50°	172.5	212.7	206.6	336.8	807.7	2182.9	5187.1	6145.7
52.5°	171.8	214.7	196.5	307.2	771.5	2372.9	5608.3	6508.0
55°	169.1	203.9	179.1	268.4	719.2	2577.3	6059.7	6933.8
57.5°	163.0	181.7	169.1	230.1	644.1	2720.2	6393.1	7263.2
60°	177.8	156.3	162.4	210.7	554.2	2745.8	6408.0	7356.0
62.5°	169.7	142.2	155.6	203.9	491.1	2579.5	6114.9	7245.2
65°	135.6	134.8	149.6	210.7	481.8	2207.0	5619.6	6917.0
67.5°	123.4	129.4	143.5	218.6	487.7	1738.8	4891.2	6151.1
70°	115.4	122.8	135.6	226.1	498.4	1369.8	3937.9	5002.5
72.5°	107.3	113.4	127.5	233.5	491.1	1080.8	3151.7	3853.4
75°	97.2	102.6	116.1	213.9	421.2	794.3	2504.3	2736.3
77.5°	85.9	90.5	102.0	169.1	316.7	552.7	1875.8	1972.3
80°	73.8	75.7	84.5	123.4	206.6	330.8	1427.5	1573.1
82.5°	58.4	59.0	64.4	90.5	128.7	211.3	990.2	1130.3
85°	37.5	38.8	41.6	63.7	86.5	135.6	505.8	579.6
87.5°	12.8	14.7	14.7	30.8	42.3	75.2	155.0	112.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)