

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: P198749

Luminaire Tested: **XNV2-AF-02-LED-U-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198749
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-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 8802.5 lumens
Efficiency: N/A
Efficacy: 103.6 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): 85
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

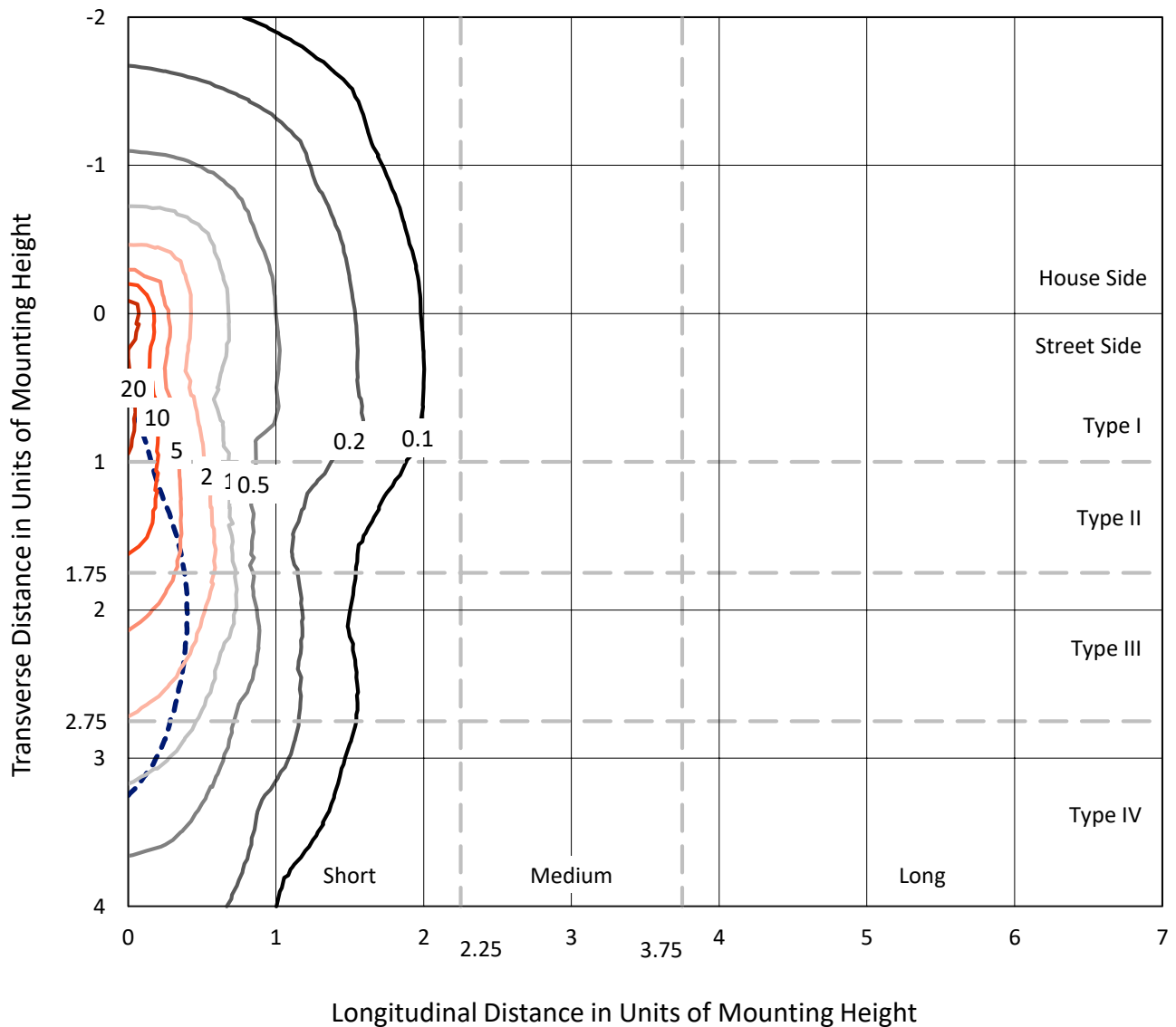


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

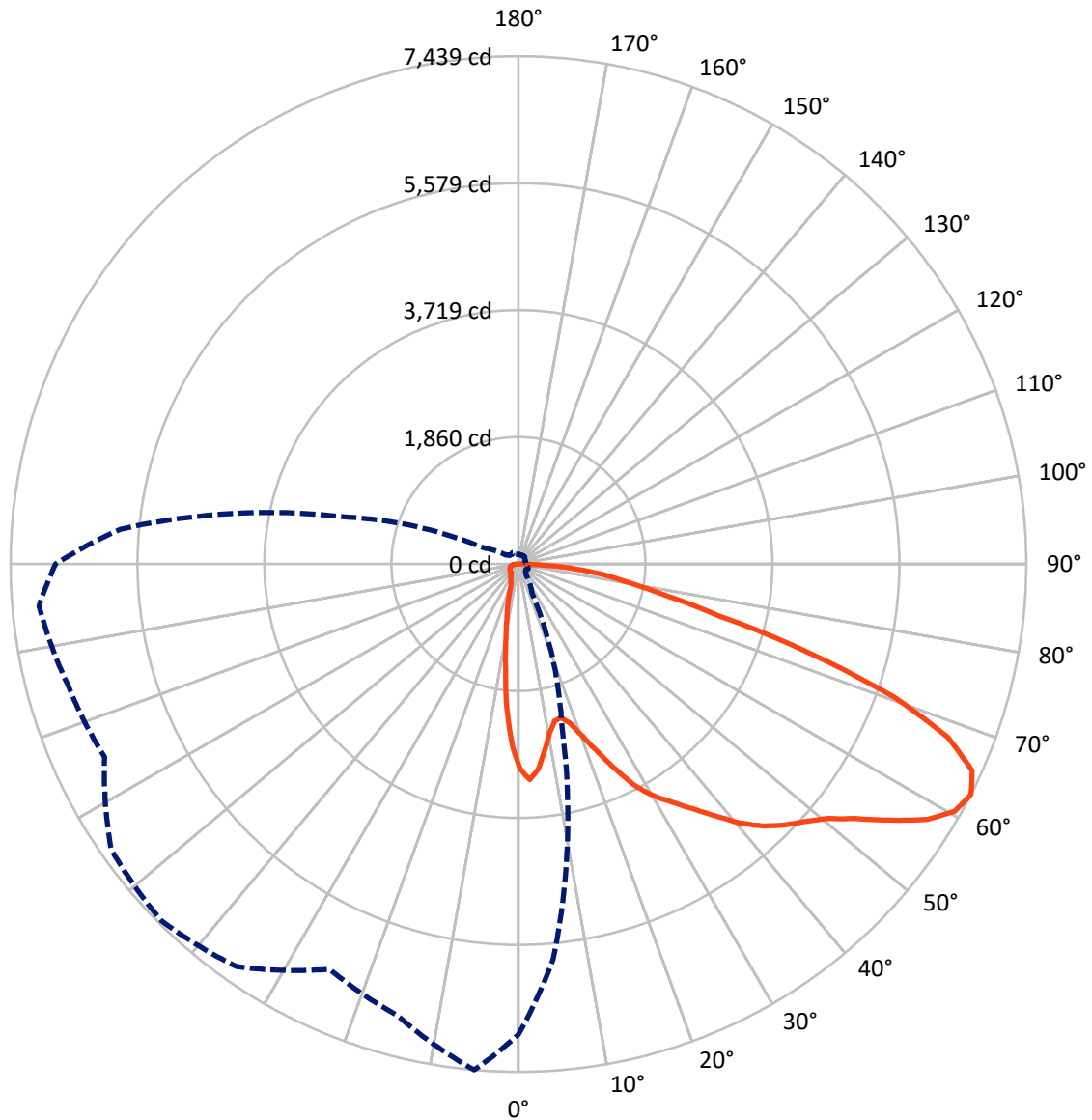


Based on 10 foot mounting height. Maximum calculated value = 30 fc
 Type IV - Short - Non-Cutoff

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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	1559.4	0.0	1559.4
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	7243.1	0.0	7243.1
	% Fixture	82.3	0.0	82.3
Total	Lumens	8802.5	0.0	8802.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	2.5
10°-20°	398.6	4.5
20°-30°	573.3	6.5
30°-40°	878.1	10.0
40°-50°	1283.8	14.6
50°-60°	1868.0	21.2
60°-70°	2164.3	24.6
70°-80°	1128.2	12.8
80°-90°	290.0	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°	8802.5	100.0
0°-180°	8802.5	100.0



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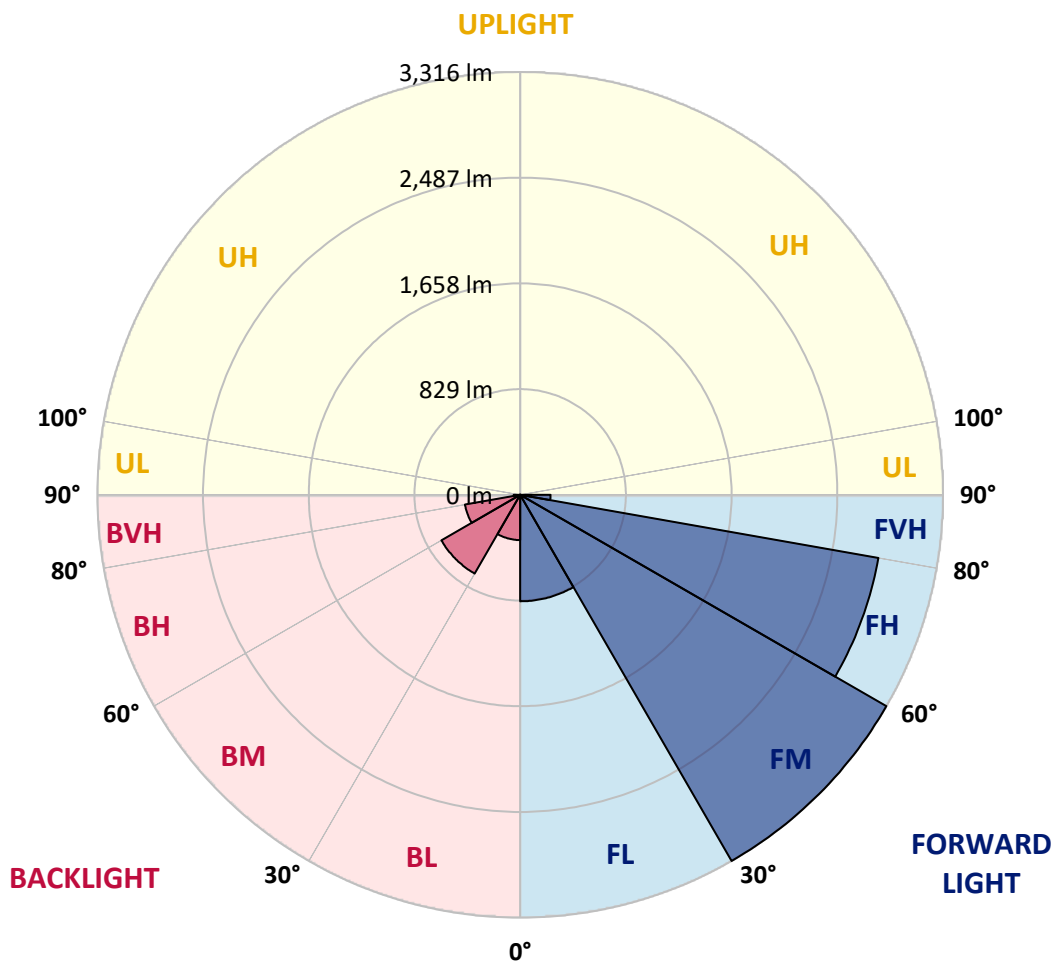
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.4	9.5			
FM	(30°-60°)	3316.4	37.7			
FH	(60°-80°)	2852.8	32.4			G2/5000
FVH	(80°-90°)	238.6	2.7			G3/500
BL	(0°-30°)	354.8	4.0	B1/500		
BM	(30°-60°)	713.5	8.1	B1/1000		
BH	(60°-80°)	439.7	5.0	B1/500		G1/500
BVH	(80°-90°)	51.4	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°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	3097.9	3054.5	2954.4	2866.3	2756.5	2674.2	2573.9	2521.0	2482.1	2455.9	2434.8
5°	2893.7	2789.1	2597.6	2429.7	2248.4	2117.6	1964.5	1880.9	1829.1	1801.1	1788.3
7.5°	2590.5	2452.1	2204.5	1979.1	1752.6	1589.2	1473.0	1349.2	1283.5	1240.7	1226.7
10°	2325.7	2169.4	1873.8	1620.5	1445.6	1329.4	1229.9	1116.2	1032.1	958.6	931.2
12.5°	2171.9	1989.9	1653.0	1423.8	1277.1	1152.7	1047.3	924.7	836.1	759.5	730.2
15°	2139.3	1936.3	1560.5	1298.8	1118.8	968.8	842.5	709.1	622.3	559.0	538.7
17.5°	2237.6	1987.4	1521.5	1184.6	967.5	784.4	628.6	485.7	413.6	379.1	370.8
20°	2439.9	2099.8	1503.0	1081.8	820.7	603.7	434.7	330.0	294.2	284.0	283.4
22.5°	2706.1	2282.3	1523.5	997.6	682.9	445.5	318.4	271.3	256.6	250.8	250.8
25°	3006.7	2529.2	1577.7	933.1	561.6	346.6	274.5	248.9	236.8	231.1	231.7
27.5°	3374.3	2829.9	1651.8	873.7	474.9	303.8	256.6	234.9	222.7	217.0	217.7
30°	3651.3	3088.4	1715.6	819.5	430.2	286.5	247.0	226.6	213.2	204.9	204.3
32.5°	3910.4	3316.2	1767.2	780.5	404.7	255.9	223.4	208.1	196.6	187.0	185.1
35°	4197.0	3530.7	1791.5	779.3	388.0	231.1	204.3	185.8	174.2	163.4	161.4
37.5°	4521.9	3793.0	1812.0	787.0	379.1	215.1	195.3	177.4	167.9	157.0	154.5
40°	4860.1	4049.6	1827.9	793.3	377.9	204.3	188.3	172.4	162.8	151.3	148.7
42.5°	5150.5	4276.8	1849.6	790.7	368.9	202.3	183.8	167.9	159.0	147.4	144.2
45°	5382.8	4457.4	1883.5	790.1	355.5	206.7	182.5	166.5	155.7	143.6	141.1
47.5°	5599.1	4661.0	1954.9	787.6	340.8	205.5	189.6	165.3	154.5	142.3	140.5
50°	5846.8	4934.8	2076.8	768.4	320.4	196.6	202.3	164.0	151.3	140.5	138.5
52.5°	6191.4	5335.6	2257.4	734.0	292.3	187.0	204.3	163.4	146.2	136.6	134.0
55°	6596.7	5765.1	2452.1	684.1	255.3	170.4	194.1	160.8	141.1	130.8	127.1
57.5°	6910.1	6082.3	2588.0	612.7	218.9	160.8	173.0	155.1	134.6	124.5	121.2
60°	6998.2	6096.4	2612.3	527.1	200.4	154.5	148.7	169.1	129.6	118.7	115.5
62.5°	6892.8	5817.4	2454.0	467.2	194.1	148.0	135.3	161.4	124.5	113.6	110.4
65°	6580.7	5346.5	2099.8	458.3	200.4	142.3	128.3	128.9	119.4	108.5	105.3
67.5°	5851.9	4653.3	1654.3	464.0	208.1	136.6	123.2	117.4	113.6	104.0	100.2
70°	4759.3	3746.4	1303.2	474.2	215.1	128.9	116.8	109.8	106.6	96.4	94.4
72.5°	3665.9	2998.4	1028.2	467.2	222.1	121.2	107.8	102.1	98.3	88.7	86.8
75°	2603.3	2382.5	755.7	400.8	203.6	110.4	97.7	92.6	89.3	79.2	78.5
77.5°	1876.4	1784.4	525.9	301.3	160.8	97.0	86.1	81.7	79.8	68.3	68.3
80°	1496.7	1358.2	314.7	196.6	117.4	80.4	72.1	70.2	68.3	56.8	57.5
82.5°	1075.4	942.0	201.0	122.5	86.1	61.3	56.2	55.5	52.4	42.1	42.1
85°	551.5	481.2	128.9	82.3	60.7	39.6	37.0	35.7	33.9	26.2	26.2
87.5°	107.2	147.4	71.5	40.2	29.4	14.0	14.0	12.2	14.0	9.6	10.2
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°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	2475.0	2462.2	2453.3	2448.8	2513.4	2540.2	2570.8	2614.9	2644.8	2632.1	2672.9
5°	1848.3	1857.3	1877.6	1909.5	1999.6	2042.3	2069.7	2106.2	2132.3	2106.2	2149.5
7.5°	1263.7	1277.1	1320.5	1386.2	1494.7	1542.6	1552.1	1552.8	1547.1	1504.4	1533.7
10°	930.6	903.8	913.3	960.6	1057.5	1100.3	1104.8	1093.3	1091.4	1074.1	1107.3
12.5°	721.2	684.1	662.5	670.1	742.9	778.0	783.8	790.1	816.3	824.6	865.4
15°	538.1	518.8	502.9	495.9	543.8	571.2	574.4	589.7	617.1	624.8	659.9
17.5°	378.5	383.6	391.9	395.1	429.5	447.4	442.3	442.3	446.7	444.9	464.6
20°	289.1	299.3	315.3	330.6	361.9	372.0	359.4	343.4	333.2	328.1	332.6
22.5°	255.3	262.3	272.5	292.3	318.4	323.6	307.0	294.2	284.7	279.6	280.2
25°	236.8	243.8	252.1	268.0	290.4	293.0	277.6	269.3	261.7	256.6	255.3
27.5°	220.9	225.3	230.4	240.6	263.6	264.8	254.6	249.5	244.5	240.6	239.4
30°	206.1	208.1	210.0	220.1	237.4	239.4	234.3	231.7	229.8	227.2	227.2
32.5°	187.0	189.6	192.7	201.7	218.3	220.9	217.7	215.7	212.6	211.2	209.3
35°	164.0	170.4	177.4	188.3	206.1	207.5	203.6	197.8	190.2	188.3	187.0
37.5°	154.5	155.7	164.7	177.4	195.9	197.2	192.1	182.5	176.8	177.4	178.7
40°	148.0	150.0	155.1	167.9	186.4	188.3	183.8	176.8	171.0	171.7	173.6
42.5°	143.0	145.6	148.7	157.0	175.5	179.3	178.1	171.7	165.9	167.3	169.8
45°	140.5	142.3	142.3	148.0	165.9	171.7	172.4	167.3	162.8	164.0	167.3
47.5°	139.1	139.1	137.2	141.7	159.6	165.3	166.5	164.0	161.4	162.8	165.9
50°	137.2	134.6	132.8	136.6	154.5	159.6	160.8	159.0	160.2	162.8	164.7
52.5°	131.4	128.9	128.9	131.4	149.4	154.5	155.1	153.9	156.4	159.6	162.8
55°	124.5	124.5	125.1	127.7	146.8	150.6	150.0	148.7	151.3	155.1	158.3
57.5°	118.0	117.4	120.6	123.8	143.6	146.2	144.8	144.8	146.8	150.0	153.1
60°	114.3	111.1	113.6	118.7	140.5	143.0	141.1	140.5	143.6	146.2	148.7
62.5°	110.4	107.2	109.1	114.3	136.0	137.9	136.6	136.6	139.7	141.7	144.2
65°	104.6	103.4	104.6	109.8	132.1	132.8	132.8	133.4	136.0	137.2	139.7
67.5°	99.5	99.5	100.2	105.3	128.9	127.7	127.7	130.8	131.4	132.8	135.3
70°	93.2	94.4	94.4	100.9	126.3	121.9	122.5	125.1	126.3	127.7	128.3
72.5°	86.1	86.8	88.1	96.4	122.5	116.2	116.8	118.7	119.4	121.2	121.9
75°	78.5	79.2	81.0	91.9	120.0	110.4	109.1	110.4	111.7	112.9	112.3
77.5°	69.6	70.9	72.7	89.3	111.7	109.1	99.5	100.9	102.1	102.1	101.5
80°	58.7	60.7	63.8	85.5	94.4	105.3	88.7	89.3	90.0	90.0	88.7
82.5°	44.0	47.9	52.4	70.9	74.1	90.0	76.6	77.8	75.9	74.7	74.1
85°	28.7	31.9	38.3	49.1	54.2	70.9	63.2	63.8	59.9	59.3	59.3
87.5°	11.5	12.2	17.2	24.9	32.5	44.0	45.3	46.5	43.4	43.4	44.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	2734.8	2798.6	2872.0	2946.7	3008.0	3087.1	3163.7	3245.4	3286.8	3311.1	3379.4
5°	2217.2	2304.6	2408.6	2525.5	2622.4	2788.5	2967.1	3166.2	3262.0	3356.4	3535.1
7.5°	1586.0	1671.5	1792.8	1944.0	2081.9	2300.8	2536.3	2805.6	2938.4	3091.6	3384.5
10°	1177.5	1268.2	1377.9	1506.2	1642.1	1870.1	2134.2	2436.8	2583.0	2755.8	3089.0
12.5°	954.8	1060.7	1174.3	1289.2	1406.0	1559.2	1836.2	2172.5	2329.6	2503.8	2837.6
15°	744.8	858.5	980.9	1106.0	1222.2	1393.3	1676.0	2073.6	2252.9	2421.4	2694.6
17.5°	527.1	634.4	772.2	924.1	1092.6	1295.0	1641.5	2117.0	2334.7	2510.8	2693.9
20°	359.4	433.3	571.2	751.2	959.2	1215.8	1654.3	2269.5	2541.4	2734.8	2804.4
22.5°	287.2	322.3	415.5	598.6	844.3	1158.4	1706.6	2478.9	2838.2	3073.7	3005.4
25°	261.1	280.8	329.3	472.9	742.3	1120.1	1808.8	2755.2	3170.7	3409.4	3247.3
27.5°	245.1	262.3	293.6	388.7	654.2	1095.2	1938.3	3080.7	3545.3	3741.2	3499.4
30°	234.9	252.1	280.8	349.1	587.8	1058.1	2051.9	3378.1	3844.7	3971.7	3635.4
32.5°	215.1	228.5	252.1	312.7	538.1	1014.8	2150.1	3644.3	4127.4	4169.5	3798.7
35°	194.7	208.7	232.3	283.4	508.7	980.9	2201.9	3880.5	4407.6	4367.4	3960.9
37.5°	187.0	198.5	220.1	262.3	492.8	958.6	2221.6	4112.8	4708.2	4586.3	4073.8
40°	181.9	192.1	211.2	248.3	488.3	937.5	2217.2	4333.5	4999.9	4812.9	4162.5
42.5°	178.1	187.0	204.9	238.7	476.1	917.8	2202.5	4524.4	5233.4	5008.2	4247.4
45°	174.9	184.4	202.3	243.8	453.8	896.1	2193.6	4698.6	5412.8	5172.9	4361.0
47.5°	173.6	184.4	203.0	242.5	429.5	871.9	2225.5	4892.1	5569.1	5311.4	4512.2
50°	171.7	183.8	217.0	231.1	396.3	841.8	2333.4	5122.4	5733.2	5467.1	4708.2
52.5°	168.5	183.2	231.7	222.1	353.5	800.4	2508.3	5447.9	6016.6	5770.3	4997.9
55°	164.7	184.4	221.5	208.1	308.2	746.8	2683.1	5894.0	6476.1	6259.1	5414.1
57.5°	160.2	182.5	209.3	195.3	270.6	679.0	2815.9	6259.7	6855.2	6763.3	5925.3
60°	157.0	187.0	188.3	187.6	246.3	614.6	2828.7	6236.1	6964.4	7090.7	6425.7
62.5°	153.1	190.8	171.7	181.9	234.3	554.6	2671.0	5849.9	6779.9	7048.5	6833.5
65°	148.0	166.5	162.8	176.8	234.3	522.7	2304.0	5207.3	6270.0	6650.3	7055.0
67.5°	143.0	151.3	156.4	169.8	239.4	492.8	1851.5	4392.2	5465.7	6007.6	6806.1
70°	136.0	143.0	149.4	163.4	236.8	471.7	1457.1	3520.5	4498.2	5118.5	6117.5
72.5°	129.6	134.6	141.1	153.9	236.8	462.1	1170.5	2761.7	3434.3	3957.0	5067.5
75°	120.0	124.5	130.2	144.2	232.3	422.5	878.8	2212.7	2512.7	2840.1	3998.5
77.5°	110.4	113.6	118.0	132.1	209.3	352.9	621.6	1713.6	1861.7	2042.9	3117.1
80°	98.3	100.9	104.0	118.0	173.6	273.8	404.7	1340.3	1391.9	1479.4	2050.6
82.5°	84.3	88.1	88.7	101.5	139.7	198.5	240.6	918.4	917.8	1046.1	1446.9
85°	68.9	70.9	72.1	79.8	103.4	132.1	158.3	501.7	447.4	626.8	1256.7
87.5°	51.7	49.8	51.7	53.6	68.3	77.8	84.9	92.6	55.5	113.6	730.8
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°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	3415.8	3453.5	3431.1	3404.3	3337.3	3239.0	3163.7	3097.9
5°	3659.0	3728.6	3697.9	3598.3	3424.7	3227.5	3020.1	2893.7
7.5°	3628.3	3766.2	3754.0	3588.1	3339.2	3048.8	2757.2	2590.5
10°	3383.2	3576.6	3609.8	3440.1	3176.5	2851.6	2514.0	2325.7
12.5°	3116.4	3279.2	3346.9	3282.4	3034.2	2704.2	2360.2	2171.9
15°	2893.1	2975.5	3042.5	3083.9	2930.1	2651.8	2333.4	2139.3
17.5°	2727.8	2711.8	2768.0	2867.5	2874.0	2721.4	2454.7	2237.6
20°	2648.0	2522.9	2555.4	2695.3	2858.6	2898.2	2696.5	2439.9
22.5°	2643.5	2448.2	2454.7	2605.3	2902.6	3139.4	2998.4	2706.1
25°	2712.5	2439.9	2445.7	2595.6	2980.6	3382.6	3347.5	3006.7
27.5°	2829.9	2475.6	2471.9	2637.8	3084.5	3585.5	3699.8	3374.3
30°	2956.9	2527.4	2517.8	2705.4	3186.7	3710.7	3950.0	3651.3
32.5°	3115.2	2619.3	2586.1	2804.4	3287.6	3830.6	4163.8	3910.4
35°	3265.8	2754.0	2706.1	2946.1	3395.4	3964.0	4403.1	4197.0
37.5°	3419.6	2955.0	2928.2	3150.3	3547.9	4108.9	4676.9	4521.9
40°	3616.8	3240.9	3228.1	3447.0	3751.5	4267.1	4983.9	4860.1
42.5°	3829.3	3544.7	3533.9	3787.9	4004.2	4426.1	5246.8	5150.5
45°	4045.8	3913.0	3915.5	4151.6	4270.4	4576.1	5453.7	5382.8
47.5°	4301.0	4315.7	4407.0	4528.9	4529.5	4743.3	5636.9	5599.1
50°	4625.3	4802.0	4970.5	4989.6	4791.2	4964.2	5860.8	5846.8
52.5°	4992.2	5363.0	5558.9	5498.4	5046.4	5237.9	6192.1	6191.4
55°	5428.1	5949.6	6134.0	6030.6	5352.2	5594.7	6624.8	6596.7
57.5°	5880.0	6513.7	6662.5	6527.8	5734.5	6010.1	7058.8	6910.1
60°	6368.3	6999.4	7150.7	6948.4	6163.4	6424.4	7346.0	6998.2
62.5°	6688.0	7283.4	7391.9	7197.9	6547.6	6846.3	7438.5	6892.8
65°	6704.6	7094.6	7123.2	7054.4	6711.0	7212.6	7304.5	6580.7
67.5°	6248.9	6271.8	6309.6	6383.5	6361.8	7049.3	6787.6	5851.9
70°	5274.3	4968.0	5091.7	5163.2	5324.0	6270.0	5832.1	4759.3
72.5°	4033.0	3585.5	3726.0	3701.8	4036.2	5142.9	4461.8	3665.9
75°	2902.6	2445.1	2455.9	2457.1	2900.1	4105.1	3042.5	2603.3
77.5°	1972.8	1730.2	1766.0	1743.6	1940.8	3216.1	2190.4	1876.4
80°	1349.2	1342.8	1350.5	1298.1	1294.3	2078.7	1621.8	1496.7
82.5°	1000.8	924.7	913.9	858.5	991.9	1589.2	1231.1	1075.4
85°	789.5	511.9	444.9	536.7	859.1	1462.2	750.5	551.5
87.5°	334.4	201.0	121.9	241.2	477.4	1071.5	208.1	107.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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