

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628213

Luminaire Tested: **IFLD-S-SA3A-730-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628213  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

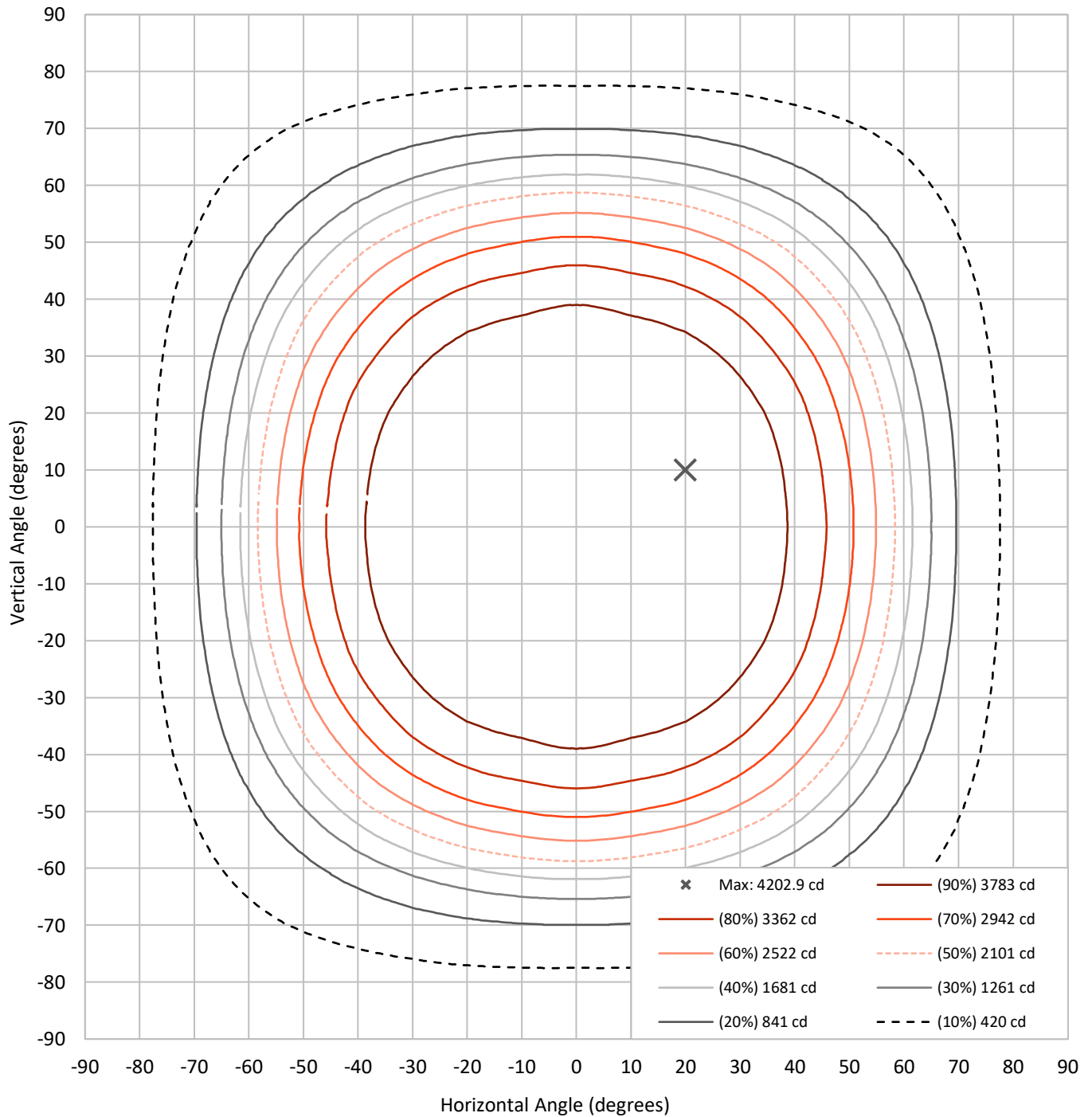
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12894 lumens	Max Intensity:	4202.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	136.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7912 lumens	Field Lumens:	9485.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 94.8  
Input Voltage (V): 120  
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: 25 FT



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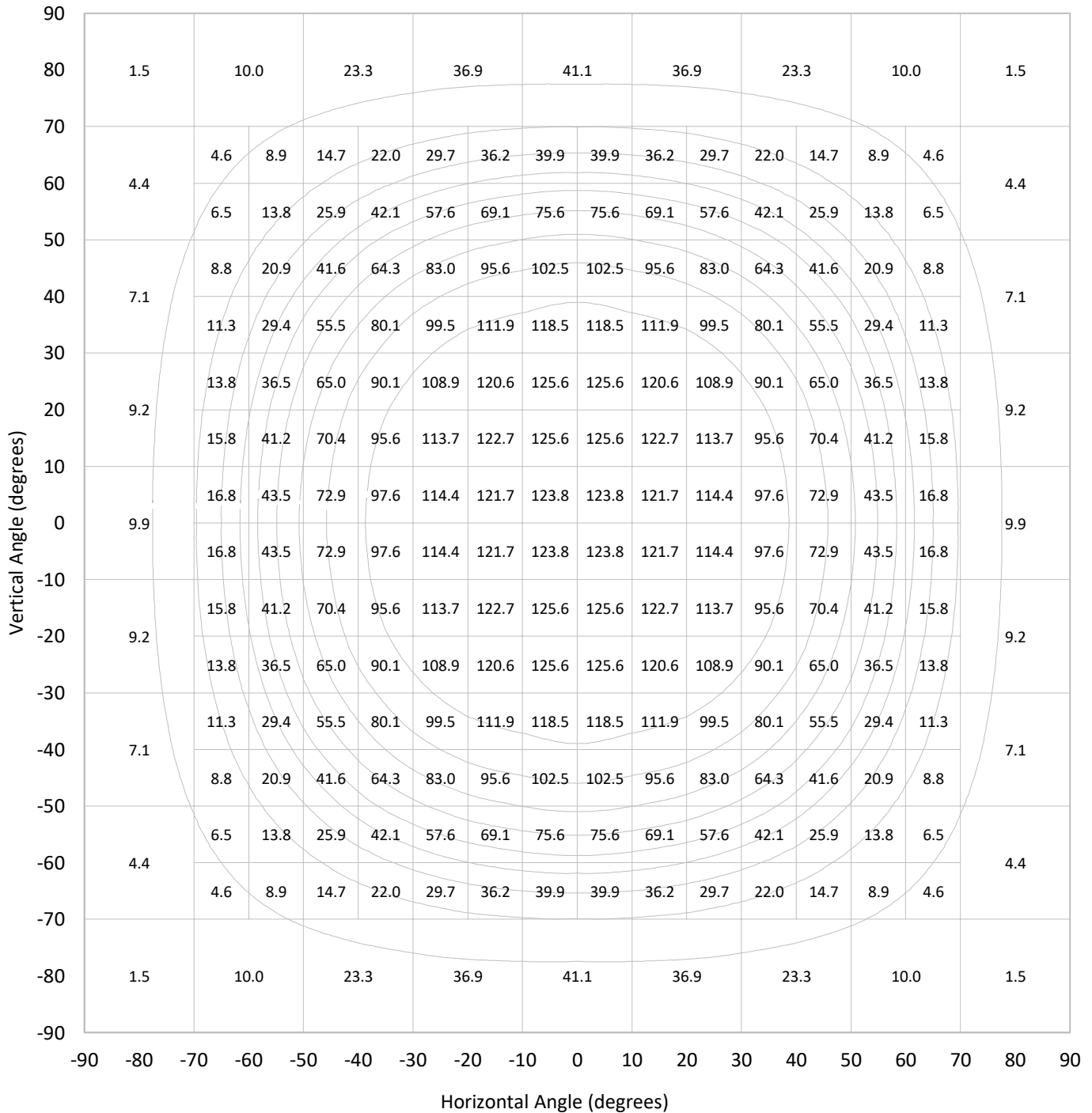
### Iso-Candela Plot





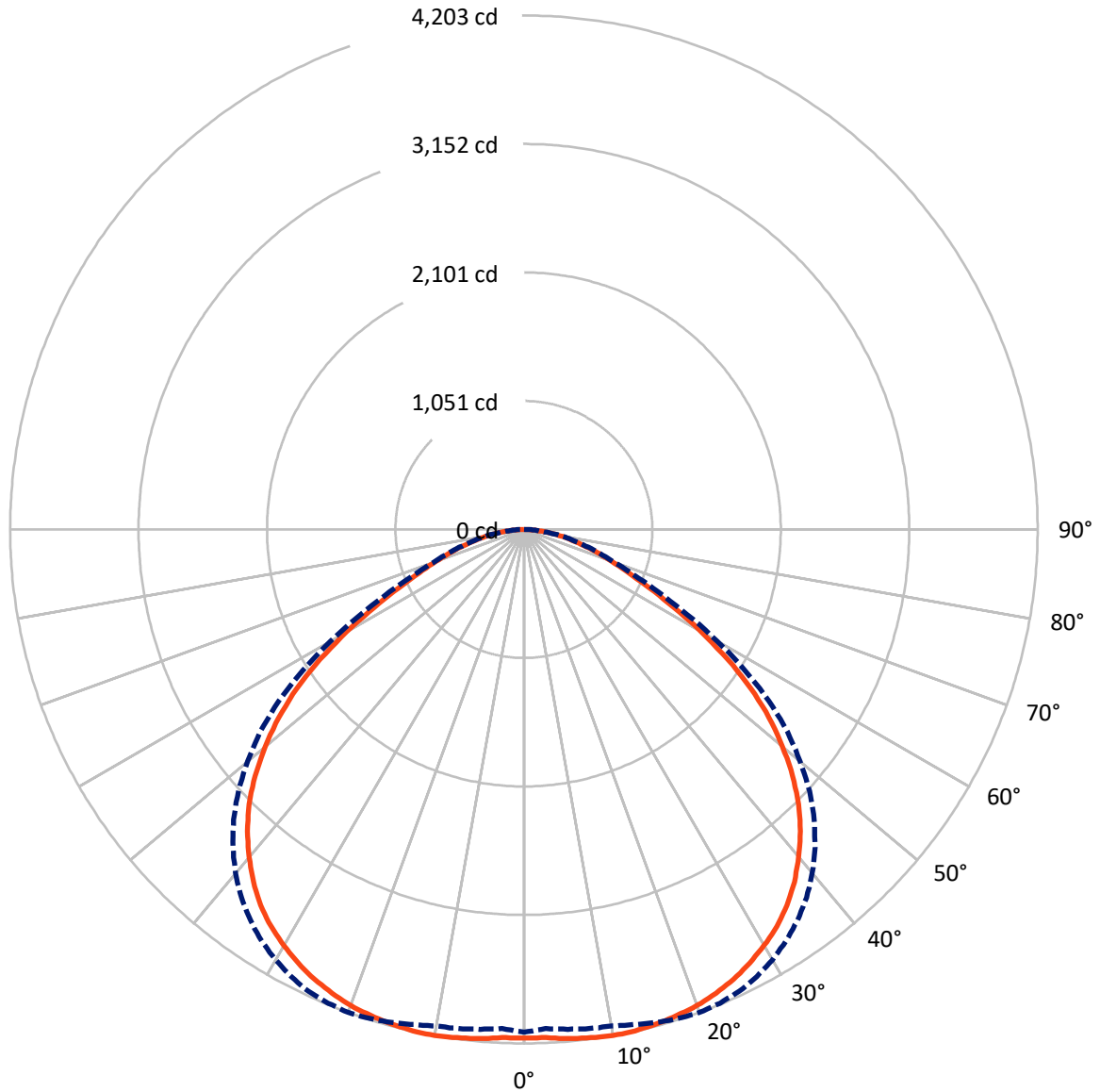
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### Lumen Table



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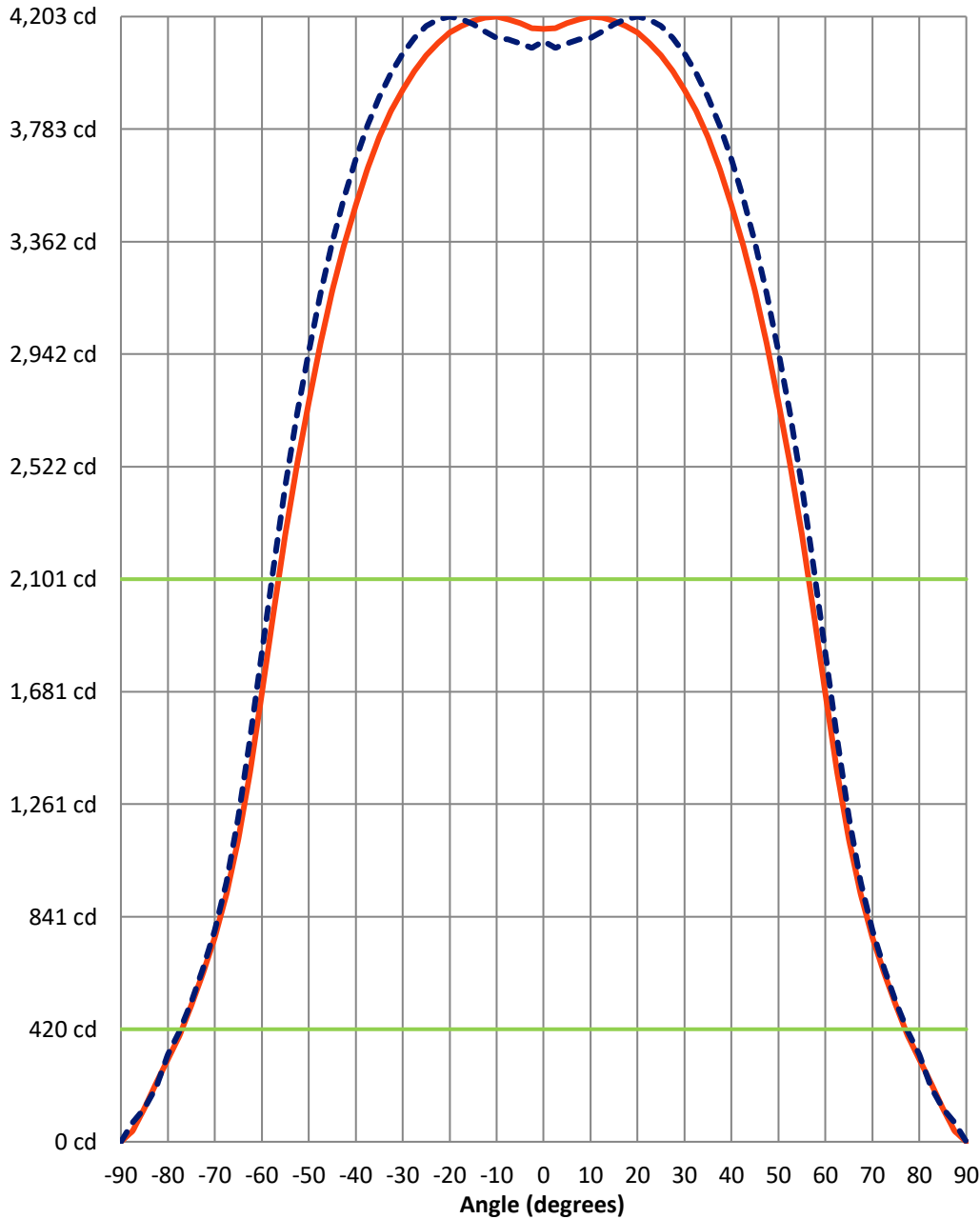
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg    - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 7912  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 9485.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3408.8  
 Efficiency: 26.4%

— Vertical Distribution through 20-Deg  
 - - - Horizontal Distribution through 10-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.9	36.6	38.0	39.3	40.7	42.1	43.4	42.1	40.7	40.7	39.3
85°	90.9	93.6	95.0	104.5	114.0	119.4	126.2	124.8	124.8	123.5	122.1
82.5°	181.8	189.9	196.7	206.2	211.6	219.8	225.2	221.1	218.4	213.0	208.9
80°	322.9	325.6	327.0	328.3	321.5	320.2	317.5	313.4	308.0	301.2	294.4
77.5°	411.1	413.8	416.5	413.8	412.4	411.1	407.0	402.9	397.5	392.1	383.9
75°	544.0	544.0	544.0	539.9	537.2	533.2	526.4	519.6	510.1	499.2	487.0
72.5°	685.1	683.8	682.4	674.3	667.5	659.3	649.8	641.7	630.8	618.6	602.4
70°	833.0	835.7	837.1	826.2	818.1	807.2	795.0	780.1	763.8	746.2	723.1
67.5°	1036.5	1033.8	1031.1	1016.1	1005.3	990.4	972.7	951.0	926.6	899.5	866.9
65°	1288.8	1292.9	1284.8	1269.8	1249.5	1225.1	1197.9	1166.7	1130.1	1089.4	1043.3
62.5°	1594.1	1600.9	1591.4	1572.4	1546.6	1514.0	1476.0	1431.3	1381.1	1324.1	1267.1
60°	1941.4	1940.0	1922.4	1896.6	1862.7	1822.0	1779.9	1731.1	1674.1	1607.6	1538.4
57.5°	2260.2	2257.5	2235.8	2210.0	2176.1	2132.7	2087.9	2036.3	1976.6	1906.1	1826.1
55°	2546.4	2543.7	2522.0	2494.9	2459.6	2416.2	2375.5	2326.7	2268.3	2193.7	2108.2
52.5°	2800.1	2801.5	2782.5	2752.7	2714.7	2672.6	2633.3	2584.4	2528.8	2454.2	2371.4
50°	3033.5	3032.1	3011.8	2984.6	2949.4	2908.7	2869.3	2820.5	2762.2	2690.2	2610.2
47.5°	3250.5	3247.8	3224.8	3194.9	3158.3	3123.0	3086.4	3043.0	2981.9	2910.0	2830.0
45°	3432.3	3426.9	3403.8	3375.4	3340.1	3308.9	3276.3	3243.8	3178.6	3112.2	3036.2
42.5°	3588.4	3587.0	3563.9	3535.4	3500.2	3473.0	3443.2	3402.5	3348.2	3287.2	3212.6
40°	3737.6	3726.7	3703.7	3676.5	3644.0	3620.9	3591.1	3550.4	3497.5	3437.8	3365.9
37.5°	3848.8	3850.2	3825.8	3795.9	3767.4	3745.7	3718.6	3680.6	3634.5	3576.1	3504.2
35°	3954.7	3947.9	3927.5	3901.7	3876.0	3851.5	3823.1	3790.5	3752.5	3698.2	3630.4
32.5°	4023.8	4033.3	4008.9	3981.8	3966.9	3947.9	3918.0	3884.1	3850.2	3795.9	3734.9
30°	4099.8	4091.7	4072.7	4049.6	4038.8	4026.6	4000.8	3968.2	3928.9	3880.0	3823.1
27.5°	4152.7	4148.7	4125.6	4103.9	4098.5	4087.6	4067.3	4038.8	3999.4	3951.9	3899.0
25°	4175.8	4178.5	4156.8	4144.6	4144.6	4137.8	4121.5	4097.1	4057.8	4014.3	3962.8
22.5°	4186.6	4183.9	4169.0	4166.3	4173.1	4167.6	4160.9	4139.2	4103.9	4068.6	4025.2
20°	4193.4	4174.4	4160.9	4171.7	4179.9	4178.5	4173.1	4159.5	4143.2	4113.4	4075.4
17.5°	4178.5	4166.3	4150.0	4166.3	4183.9	4185.3	4179.9	4171.7	4167.6	4148.7	4114.7
15°	4141.9	4132.4	4135.1	4151.4	4171.7	4178.5	4182.6	4192.1	4186.6	4171.7	4141.9
12.5°	4117.4	4105.2	4117.4	4133.7	4144.6	4148.7	4181.2	4198.8	4198.8	4185.3	4166.3
10°	4110.7	4086.2	4102.5	4117.4	4122.9	4147.3	4174.4	4193.4	4202.9	4192.1	4167.6
7.5°	4097.1	4080.8	4087.6	4094.4	4125.6	4143.2	4158.1	4178.5	4192.1	4190.7	4169.0
5°	4090.3	4070.0	4072.7	4101.2	4122.9	4135.1	4140.5	4158.1	4178.5	4182.6	4166.3
2.5°	4072.7	4063.2	4083.5	4086.2	4102.5	4112.0	4117.4	4133.7	4159.5	4169.0	4162.2
0°	4063.2	4049.6	4036.1	4046.9	4074.0	4094.4	4102.5	4126.9	4156.8	4166.3	4151.4



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.0	36.6	35.3	33.9	35.3	35.3	35.3	33.9	35.3	33.9	33.9
85°	118.0	112.6	108.5	103.1	97.7	93.6	88.2	82.8	81.4	80.0	77.3
82.5°	203.5	196.7	189.9	181.8	173.7	164.2	154.7	143.8	141.1	138.4	134.3
80°	286.3	276.8	267.3	257.8	249.6	240.1	229.3	217.1	208.9	202.1	194.0
77.5°	373.1	359.5	345.9	329.7	320.2	310.7	299.8	287.6	275.4	264.5	252.3
75°	472.1	457.2	443.6	427.3	409.7	392.1	374.4	358.2	340.5	324.2	308.0
72.5°	582.0	560.3	538.6	518.2	496.5	474.8	451.8	430.1	408.4	386.6	363.6
70°	697.3	670.2	643.1	615.9	587.4	558.9	531.8	504.7	477.5	449.1	423.3
67.5°	833.0	801.8	766.5	728.5	686.5	649.8	614.6	582.0	549.4	516.9	484.3
65°	1002.6	959.2	911.7	860.1	811.3	762.4	710.9	662.0	624.1	586.1	549.4
62.5°	1211.5	1150.4	1084.0	1017.5	957.8	894.0	834.3	770.6	710.9	656.6	611.9
60°	1461.1	1378.4	1297.0	1211.5	1128.7	1041.9	965.9	887.3	812.6	746.2	681.0
57.5°	1736.5	1640.2	1542.5	1438.1	1325.5	1223.7	1120.6	1017.5	929.3	841.1	767.9
55°	2016.0	1914.2	1804.4	1686.3	1562.9	1432.6	1292.9	1177.6	1056.8	953.7	858.8
52.5°	2281.9	2176.1	2062.1	1953.6	1805.7	1656.5	1503.2	1351.2	1210.1	1078.5	963.2
50°	2519.3	2416.2	2306.3	2180.1	2043.1	1884.4	1713.5	1542.5	1375.6	1221.0	1077.2
47.5°	2736.4	2636.0	2526.1	2399.9	2275.1	2098.7	1926.5	1737.9	1552.0	1374.3	1206.1
45°	2939.9	2838.1	2724.2	2603.4	2459.6	2302.2	2124.5	1934.6	1735.2	1535.7	1341.7
42.5°	3124.4	3022.6	2907.3	2782.5	2640.1	2484.0	2311.7	2120.5	1919.7	1702.6	1489.6
40°	3285.8	3186.8	3075.5	2945.3	2812.3	2648.2	2478.6	2296.8	2089.2	1870.8	1636.1
37.5°	3426.9	3334.7	3224.8	3095.9	2954.8	2808.3	2633.3	2451.5	2264.3	2026.8	1786.7
35°	3551.7	3466.3	3353.7	3231.6	3093.2	2938.5	2774.4	2596.6	2394.5	2172.0	1938.7
32.5°	3660.3	3573.4	3470.3	3348.2	3213.9	3068.8	2900.5	2721.5	2530.2	2303.6	2049.9
30°	3752.5	3668.4	3570.7	3455.4	3326.5	3182.7	3018.6	2838.1	2642.8	2417.6	2166.6
27.5°	3832.6	3752.5	3657.5	3550.4	3426.9	3288.5	3123.0	2941.2	2741.8	2524.7	2273.8
25°	3901.7	3824.4	3736.2	3634.5	3512.4	3376.7	3220.7	3030.8	2831.3	2612.9	2364.7
22.5°	3964.1	3889.5	3801.3	3702.3	3591.1	3455.4	3298.0	3109.5	2907.3	2691.6	2447.4
20°	4019.8	3950.6	3863.8	3762.0	3650.8	3513.7	3357.7	3178.6	2975.1	2763.5	2522.0
17.5°	4064.5	4003.5	3916.7	3809.5	3698.2	3565.3	3413.3	3249.2	3033.5	2824.6	2584.4
15°	4095.7	4036.1	3957.4	3848.8	3740.3	3608.7	3456.8	3287.2	3086.4	2873.4	2636.0
12.5°	4117.4	4053.7	3980.4	3880.0	3771.5	3641.3	3493.4	3326.5	3131.2	2916.8	2680.8
10°	4122.9	4064.5	3991.3	3901.7	3795.9	3669.8	3524.6	3359.1	3167.8	2950.7	2717.4
7.5°	4125.6	4070.0	4003.5	3918.0	3813.6	3691.5	3547.7	3384.9	3194.9	2979.2	2744.5
5°	4124.2	4071.3	4011.6	3928.9	3824.4	3703.7	3562.6	3402.5	3213.9	2998.2	2764.9
2.5°	4120.2	4072.7	4017.1	3937.0	3836.6	3717.2	3577.5	3422.8	3234.3	3014.5	2781.1
0°	4131.0	4090.3	4019.8	3934.3	3839.3	3717.2	3576.1	3425.6	3237.0	3013.1	2779.8





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.9	32.6	32.6	31.2	29.8	28.5	25.8	24.4	21.7	17.6	13.6
85°	73.3	69.2	65.1	62.4	59.7	57.0	52.9	48.8	43.4	35.3	27.1
82.5°	128.9	120.7	112.6	103.1	95.0	86.8	80.0	73.3	65.1	52.9	40.7
80°	184.5	172.3	160.1	146.5	134.3	120.7	108.5	97.7	86.8	70.5	54.3
77.5°	240.1	223.8	206.2	189.9	172.3	154.7	137.0	122.1	105.8	86.8	67.8
75°	291.7	272.7	256.4	233.3	211.6	188.6	165.5	145.2	124.8	101.7	81.4
72.5°	343.2	318.8	295.8	274.0	249.6	221.1	195.4	169.6	143.8	116.7	92.3
70°	394.8	364.9	336.5	310.7	283.5	255.1	223.8	194.0	162.8	130.2	101.7
67.5°	447.7	413.8	381.2	348.7	317.5	284.9	252.3	218.4	181.8	143.8	112.6
65°	506.0	464.0	424.6	388.0	351.4	316.1	279.5	242.8	202.1	158.7	122.1
62.5°	564.4	518.2	472.1	426.0	385.3	345.9	306.6	265.9	221.1	175.0	131.6
60°	626.8	573.9	521.0	469.4	419.2	375.8	332.4	289.0	241.5	189.9	141.1
57.5°	696.0	632.2	572.5	514.2	457.2	405.6	358.2	312.0	259.1	204.9	151.9
55°	774.7	696.0	625.4	560.3	497.9	435.5	383.9	336.5	279.5	219.8	164.2
52.5°	857.4	766.5	681.0	607.8	541.3	470.8	408.4	355.4	299.8	234.7	175.0
50°	953.7	838.4	743.4	653.9	579.3	506.0	434.1	377.2	320.2	252.3	185.9
47.5°	1052.8	925.2	805.9	708.2	620.0	539.9	464.0	396.1	339.2	268.6	196.7
45°	1168.1	1008.0	876.4	761.1	659.3	575.2	493.8	416.5	355.4	284.9	207.6
42.5°	1279.3	1105.7	949.7	819.4	704.1	609.1	521.0	438.2	371.7	301.2	217.1
40°	1410.9	1203.4	1020.2	875.0	748.9	641.7	548.1	461.3	386.6	316.1	226.6
37.5°	1537.1	1302.4	1105.7	936.1	792.3	674.3	575.2	483.0	400.2	331.0	238.8
35°	1661.9	1412.3	1187.1	993.1	837.1	710.9	602.4	503.3	413.8	343.2	249.6
32.5°	1781.3	1515.4	1269.8	1056.8	885.9	744.8	626.8	522.3	427.3	354.1	260.5
30°	1892.5	1613.1	1351.2	1122.0	930.7	776.0	649.8	541.3	443.6	363.6	271.3
27.5°	1994.3	1708.0	1432.6	1183.0	972.7	804.5	674.3	558.9	457.2	373.1	280.8
25°	2086.5	1793.5	1507.2	1238.6	1010.7	835.7	697.3	576.6	469.4	381.2	289.0
22.5°	2173.4	1872.2	1575.1	1294.2	1056.8	866.9	719.0	592.9	481.6	389.4	297.1
20°	2249.3	1944.1	1640.2	1349.9	1097.5	895.4	738.0	607.8	492.5	394.8	305.2
17.5°	2310.4	2007.9	1698.5	1398.7	1132.8	919.8	754.3	621.3	502.0	401.6	310.7
15°	2364.7	2062.1	1747.4	1440.8	1164.0	940.2	769.2	632.2	510.1	405.6	317.5
12.5°	2410.8	2108.2	1789.4	1477.4	1191.1	957.8	781.4	640.3	516.9	409.7	321.5
10°	2448.8	2144.9	1824.7	1505.9	1212.9	971.4	790.9	648.5	522.3	413.8	325.6
7.5°	2477.3	2172.0	1850.5	1530.3	1230.5	980.9	799.1	653.9	527.7	416.5	332.4
5°	2499.0	2195.1	1870.8	1546.6	1244.1	994.4	808.6	660.7	533.2	419.2	332.4
2.5°	2515.2	2214.1	1887.1	1560.2	1254.9	991.7	808.6	659.3	533.2	419.2	331.0
0°	2512.5	2215.4	1885.8	1560.2	1254.9	989.0	808.6	658.0	533.2	419.2	331.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.5	6.8	2.7	0.0
85°	20.3	13.6	6.8	0.0
82.5°	29.8	19.0	9.5	0.0
80°	39.3	25.8	12.2	0.0
77.5°	50.2	32.6	16.3	0.0
75°	59.7	38.0	19.0	0.0
72.5°	69.2	44.8	21.7	0.0
70°	77.3	50.2	24.4	0.0
67.5°	85.5	57.0	28.5	0.0
65°	92.3	62.4	31.2	0.0
62.5°	97.7	69.2	33.9	0.0
60°	104.5	74.6	36.6	0.0
57.5°	109.9	78.7	39.3	0.0
55°	115.3	81.4	42.1	0.0
52.5°	120.7	85.5	44.8	0.0
50°	126.2	89.5	47.5	0.0
47.5°	131.6	92.3	48.8	0.0
45°	139.7	96.3	51.6	0.0
42.5°	146.5	99.0	54.3	0.0
40°	153.3	101.7	55.6	0.0
37.5°	160.1	104.5	58.3	0.0
35°	166.9	107.2	59.7	0.0
32.5°	172.3	109.9	61.0	0.0
30°	177.7	112.6	62.4	0.0
27.5°	183.1	114.0	63.8	0.0
25°	187.2	116.7	65.1	0.0
22.5°	191.3	118.0	66.5	0.0
20°	194.0	119.4	67.8	0.0
17.5°	198.1	120.7	69.2	0.0
15°	199.4	122.1	71.9	0.0
12.5°	202.1	123.5	71.9	0.0
10°	203.5	124.8	71.9	0.0
7.5°	206.2	124.8	71.9	0.0
5°	204.9	124.8	71.9	0.0
2.5°	204.9	124.8	71.9	0.0
0°	203.5	124.8	71.9	0.0

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