

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: P628153

Luminaire Tested: **IFLD-S-SA2D-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628153
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11856.1 lumens	Max Intensity:	3864.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

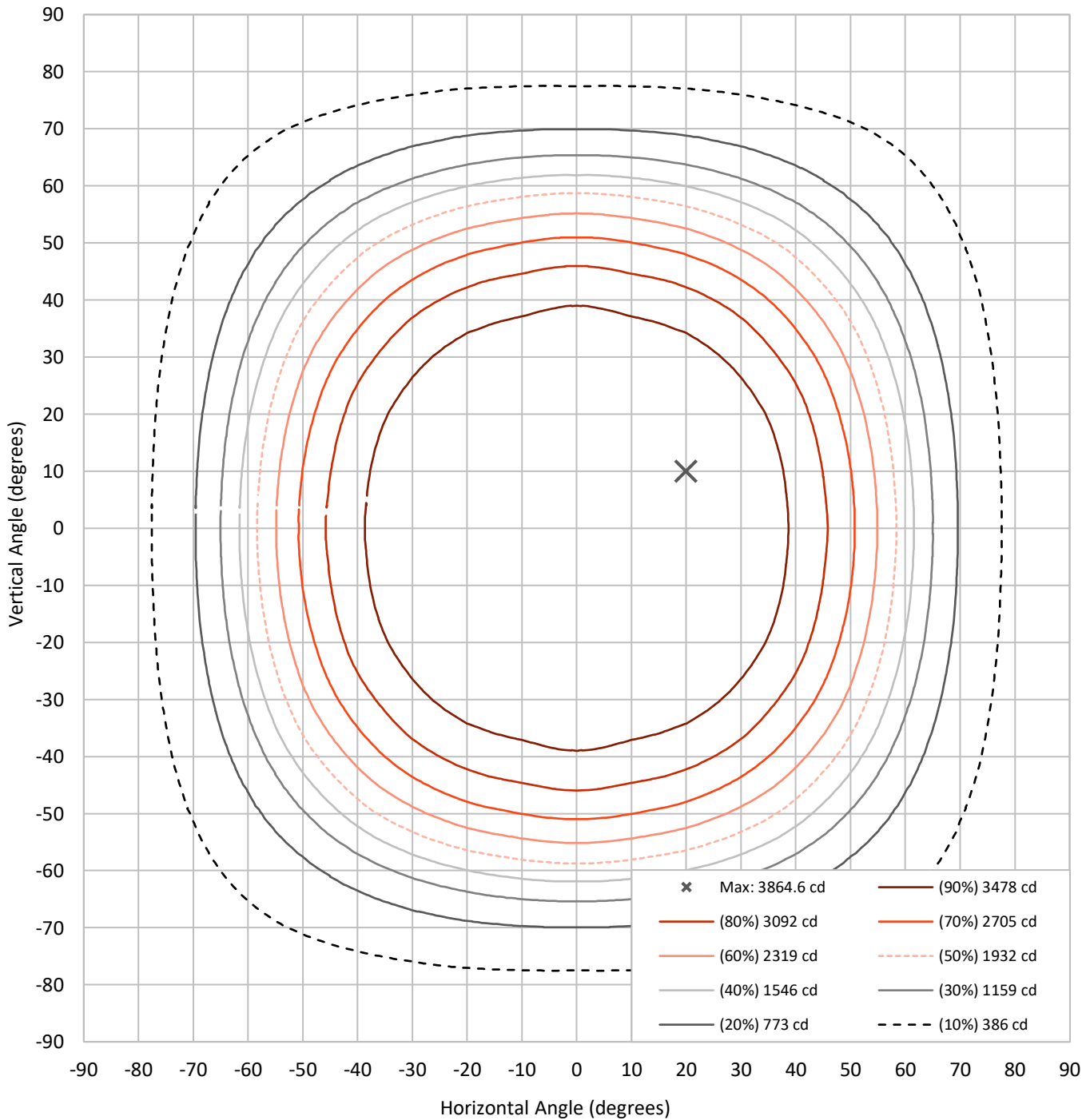
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7275.2 lumens	Field Lumens:	8721.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 123.9
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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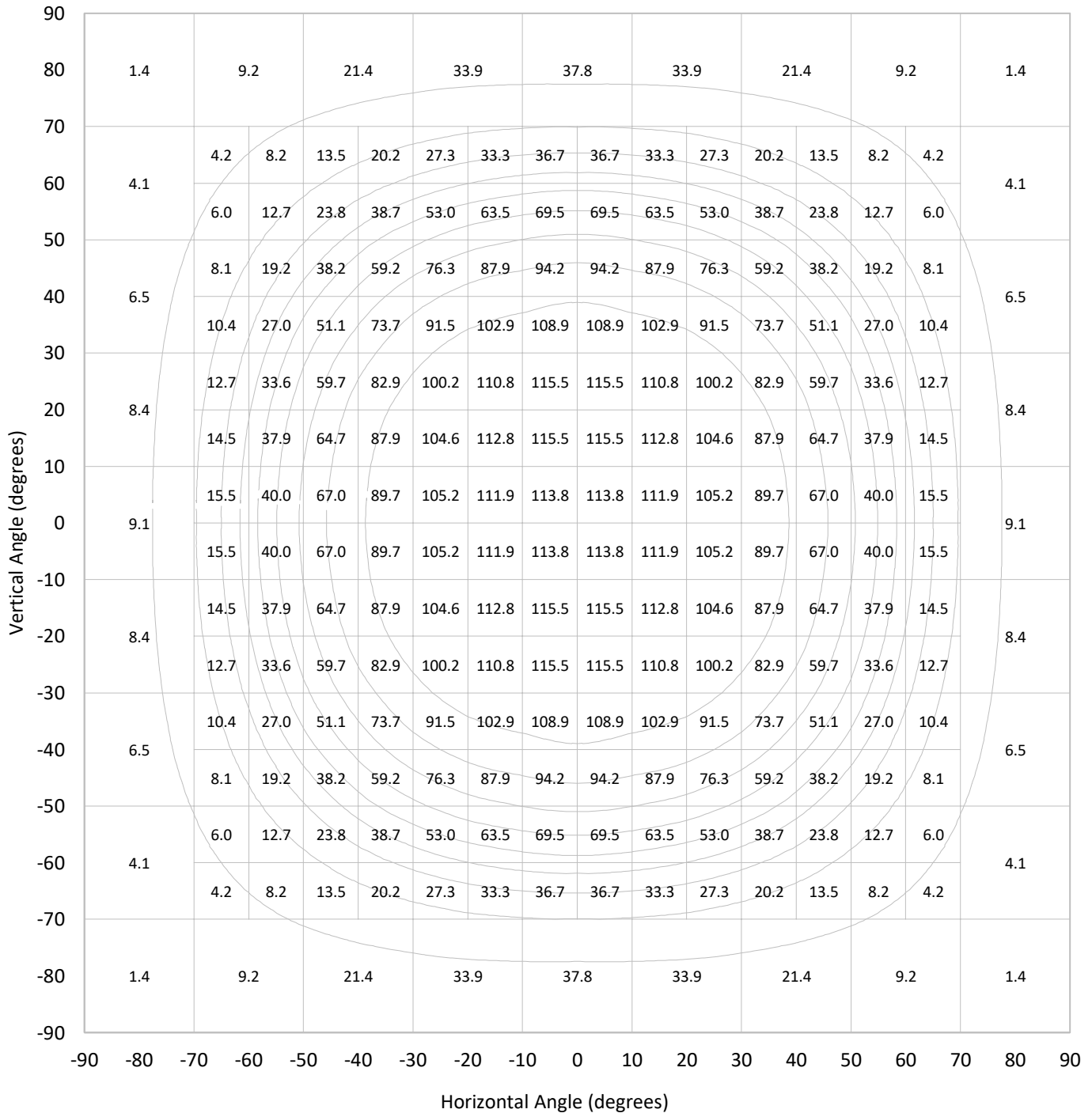
Iso-Candela Plot





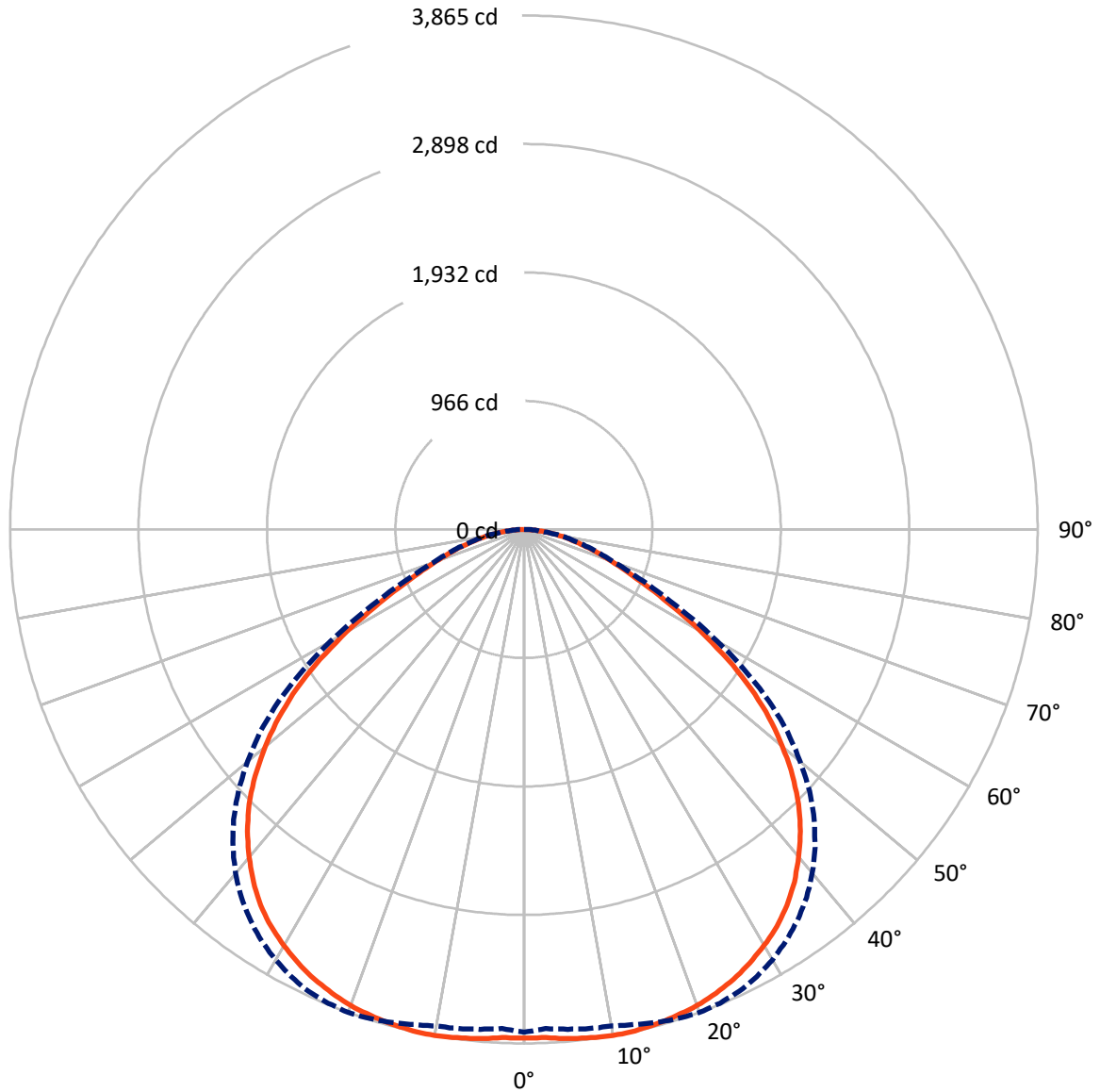
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Lumen Table



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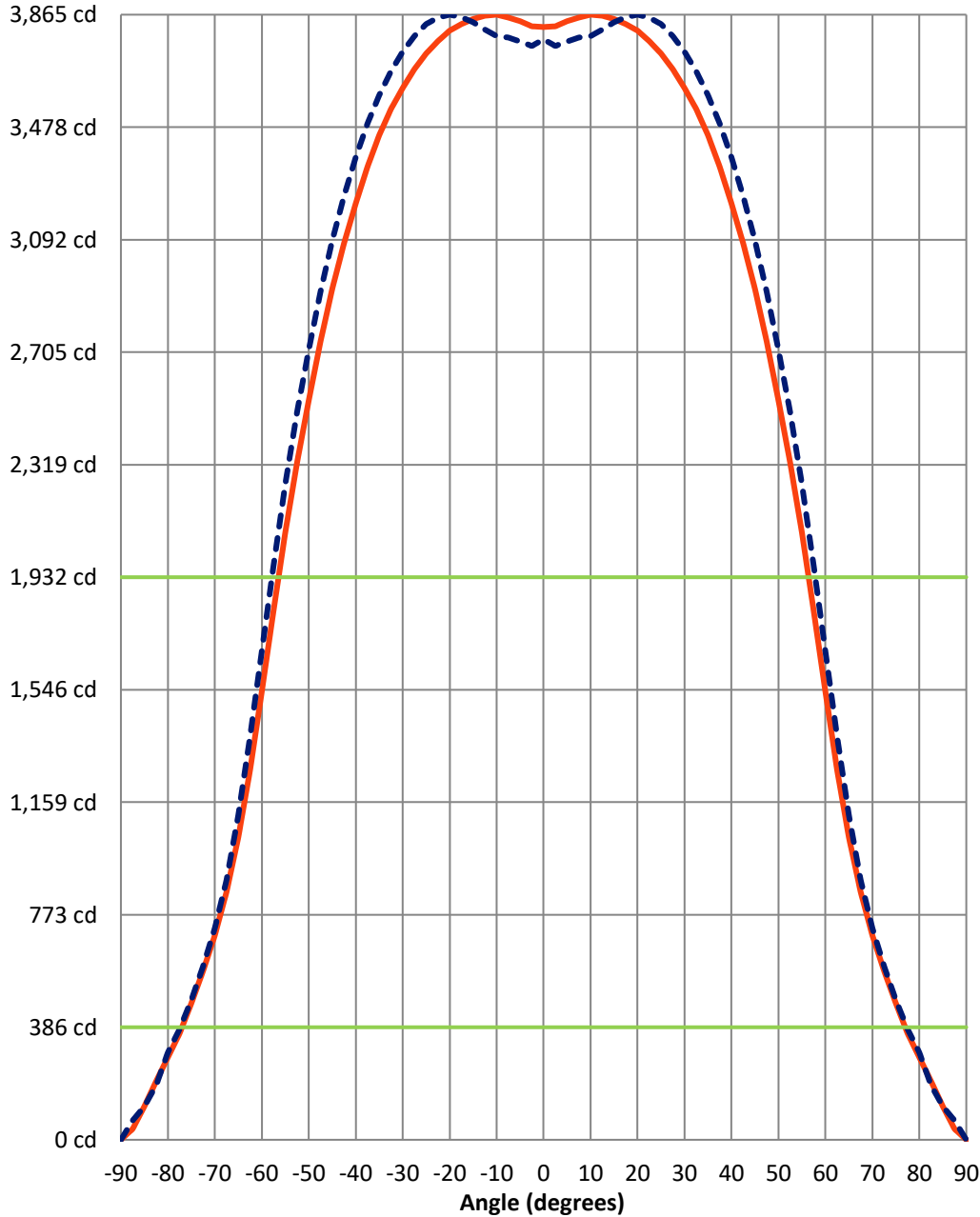
Luminous Intensity Polar Plot



— 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: 7275.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8721.7
 Efficiency: 73.6%

Spill:
 Lumens: 3134.4
 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°	31.2	33.7	34.9	36.2	37.4	38.7	39.9	38.7	37.4	37.4	36.2
85°	83.6	86.1	87.3	96.1	104.8	109.8	116.0	114.8	114.8	113.5	112.3
82.5°	167.2	174.6	180.9	189.6	194.6	202.1	207.1	203.3	200.8	195.9	192.1
80°	296.9	299.4	300.6	301.9	295.6	294.4	291.9	288.2	283.2	276.9	270.7
77.5°	378.0	380.5	383.0	380.5	379.2	378.0	374.2	370.5	365.5	360.5	353.0
75°	500.2	500.2	500.2	496.5	494.0	490.3	484.0	477.8	469.0	459.1	447.8
72.5°	630.0	628.7	627.5	620.0	613.7	606.3	597.5	590.0	580.1	568.8	553.9
70°	765.9	768.4	769.7	759.7	752.2	742.2	731.0	717.3	702.3	686.1	664.9
67.5°	953.1	950.6	948.1	934.3	924.4	910.6	894.4	874.5	852.0	827.1	797.1
65°	1185.1	1188.8	1181.3	1167.6	1148.9	1126.5	1101.5	1072.8	1039.1	1001.7	959.3
62.5°	1465.8	1472.0	1463.3	1445.8	1422.1	1392.2	1357.2	1316.1	1269.9	1217.5	1165.1
60°	1785.1	1783.9	1767.6	1743.9	1712.8	1675.3	1636.7	1591.8	1539.4	1478.2	1414.6
57.5°	2078.3	2075.8	2055.8	2032.1	2000.9	1961.0	1919.8	1872.4	1817.5	1752.7	1679.1
55°	2341.5	2339.0	2319.0	2294.1	2261.6	2221.7	2184.3	2139.4	2085.7	2017.1	1938.5
52.5°	2574.7	2576.0	2558.5	2531.1	2496.2	2457.5	2421.3	2376.4	2325.3	2256.6	2180.6
50°	2789.3	2788.1	2769.4	2744.4	2712.0	2674.5	2638.4	2593.5	2539.8	2473.7	2400.1
47.5°	2988.9	2986.4	2965.2	2937.8	2904.1	2871.6	2838.0	2798.0	2741.9	2675.8	2602.2
45°	3156.1	3151.1	3129.9	3103.7	3071.2	3042.5	3012.6	2982.7	2922.8	2861.7	2791.8
42.5°	3299.5	3298.3	3277.1	3250.9	3218.4	3193.5	3166.0	3128.6	3078.7	3022.6	2954.0
40°	3436.7	3426.8	3405.6	3380.6	3350.7	3329.5	3302.0	3264.6	3215.9	3161.1	3094.9
37.5°	3539.0	3540.3	3517.8	3490.4	3464.2	3444.2	3419.3	3384.3	3341.9	3288.3	3222.2
35°	3636.3	3630.1	3611.4	3587.7	3564.0	3541.5	3515.3	3485.4	3450.5	3400.6	3338.2
32.5°	3700.0	3708.7	3686.2	3661.3	3647.6	3630.1	3602.7	3571.5	3540.3	3490.4	3434.2
30°	3769.8	3762.3	3744.9	3723.7	3713.7	3702.5	3678.7	3648.8	3612.6	3567.7	3515.3
27.5°	3818.5	3814.7	3793.5	3773.6	3768.6	3758.6	3739.9	3713.7	3677.5	3633.8	3585.2
25°	3839.7	3842.2	3822.2	3811.0	3811.0	3804.7	3789.8	3767.3	3731.1	3691.2	3643.8
22.5°	3849.7	3847.2	3833.4	3830.9	3837.2	3832.2	3825.9	3806.0	3773.6	3741.1	3701.2
20°	3855.9	3838.4	3825.9	3835.9	3843.4	3842.2	3837.2	3824.7	3809.7	3782.3	3747.4
17.5°	3842.2	3830.9	3816.0	3830.9	3847.2	3848.4	3843.4	3835.9	3832.2	3814.7	3783.5
15°	3808.5	3799.8	3802.2	3817.2	3835.9	3842.2	3845.9	3854.6	3849.7	3835.9	3808.5
12.5°	3786.0	3774.8	3786.0	3801.0	3811.0	3814.7	3844.7	3860.9	3860.9	3848.4	3830.9
10°	3779.8	3757.3	3772.3	3786.0	3791.0	3813.5	3838.4	3855.9	3864.6	3854.6	3832.2
7.5°	3767.3	3752.3	3758.6	3764.8	3793.5	3809.7	3823.5	3842.2	3854.6	3853.4	3833.4
5°	3761.1	3742.4	3744.9	3771.1	3791.0	3802.2	3807.2	3823.5	3842.2	3845.9	3830.9
2.5°	3744.9	3736.1	3754.8	3757.3	3772.3	3781.0	3786.0	3801.0	3824.7	3833.4	3827.2
0°	3736.1	3723.7	3711.2	3721.2	3746.1	3764.8	3772.3	3794.8	3822.2	3830.9	3817.2



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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°	34.9	33.7	32.4	31.2	32.4	32.4	32.4	31.2	32.4	31.2	31.2
85°	108.5	103.5	99.8	94.8	89.8	86.1	81.1	76.1	74.8	73.6	71.1
82.5°	187.1	180.9	174.6	167.2	159.7	150.9	142.2	132.2	129.7	127.2	123.5
80°	263.2	254.5	245.7	237.0	229.5	220.8	210.8	199.6	192.1	185.9	178.4
77.5°	343.1	330.6	318.1	303.1	294.4	285.7	275.7	264.5	253.2	243.3	232.0
75°	434.1	420.4	407.9	392.9	376.7	360.5	344.3	329.3	313.1	298.1	283.2
72.5°	535.2	515.2	495.2	476.5	456.6	436.6	415.4	395.4	375.5	355.5	334.3
70°	641.2	616.2	591.3	566.3	540.1	514.0	489.0	464.1	439.1	412.9	389.2
67.5°	765.9	737.2	704.8	669.9	631.2	597.5	565.1	535.2	505.2	475.3	445.3
65°	921.9	882.0	838.3	790.9	746.0	701.1	653.7	608.8	573.8	538.9	505.2
62.5°	1114.0	1057.8	996.7	935.6	880.7	822.1	767.2	708.6	653.7	603.8	562.6
60°	1343.5	1267.4	1192.6	1114.0	1037.9	958.0	888.2	815.8	747.2	686.1	626.2
57.5°	1596.7	1508.2	1418.4	1322.3	1218.8	1125.2	1030.4	935.6	854.5	773.4	706.1
55°	1853.7	1760.2	1659.1	1550.6	1437.1	1317.3	1188.8	1082.8	971.8	877.0	789.6
52.5°	2098.2	2000.9	1896.1	1796.3	1660.4	1523.1	1382.2	1242.5	1112.7	991.7	885.7
50°	2316.5	2221.7	2120.7	2004.7	1878.7	1732.7	1575.5	1418.4	1264.9	1122.7	990.5
47.5°	2516.1	2423.8	2322.8	2206.8	2092.0	1929.8	1771.4	1598.0	1427.1	1263.7	1109.0
45°	2703.2	2609.7	2504.9	2393.9	2261.6	2116.9	1953.5	1778.9	1595.5	1412.1	1233.7
42.5°	2872.9	2779.3	2673.3	2558.5	2427.5	2284.1	2125.7	1949.8	1765.2	1565.6	1369.7
40°	3021.3	2930.3	2828.0	2708.2	2586.0	2435.0	2279.1	2111.9	1921.1	1720.2	1504.4
37.5°	3151.1	3066.2	2965.2	2846.7	2717.0	2582.2	2421.3	2254.2	2082.0	1863.7	1642.9
35°	3265.8	3187.3	3083.7	2971.4	2844.2	2702.0	2551.0	2387.6	2201.8	1997.2	1782.6
32.5°	3365.6	3285.8	3191.0	3078.7	2955.2	2821.7	2667.1	2502.4	2326.5	2118.2	1884.9
30°	3450.5	3373.1	3283.3	3177.3	3058.8	2926.5	2775.6	2609.7	2430.0	2223.0	1992.2
27.5°	3524.1	3450.5	3363.1	3264.6	3151.1	3023.8	2871.6	2704.5	2521.1	2321.5	2090.7
25°	3587.7	3516.6	3435.5	3341.9	3229.7	3104.9	2961.5	2786.8	2603.4	2402.6	2174.3
22.5°	3645.1	3576.5	3495.4	3404.3	3302.0	3177.3	3032.6	2859.2	2673.3	2475.0	2250.4
20°	3696.2	3632.6	3552.8	3459.2	3356.9	3230.9	3087.5	2922.8	2735.7	2541.1	2319.0
17.5°	3737.4	3681.2	3601.4	3502.9	3400.6	3278.3	3138.6	2987.7	2789.3	2597.2	2376.4
15°	3766.1	3711.2	3638.8	3539.0	3439.2	3318.2	3178.5	3022.6	2838.0	2642.1	2423.8
12.5°	3786.0	3727.4	3660.0	3567.7	3467.9	3348.2	3212.2	3058.8	2879.1	2682.0	2465.0
10°	3791.0	3737.4	3670.0	3587.7	3490.4	3374.4	3240.9	3088.7	2912.8	2713.2	2498.7
7.5°	3793.5	3742.4	3681.2	3602.7	3506.6	3394.3	3262.1	3112.4	2937.8	2739.4	2523.6
5°	3792.3	3743.6	3688.7	3612.6	3516.6	3405.6	3275.8	3128.6	2955.2	2756.9	2542.3
2.5°	3788.5	3744.9	3693.7	3620.1	3527.8	3418.0	3289.5	3147.3	2973.9	2771.8	2557.3
0°	3798.5	3761.1	3696.2	3617.6	3530.3	3418.0	3288.3	3149.8	2976.4	2770.6	2556.0



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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°	31.2	29.9	29.9	28.7	27.4	26.2	23.7	22.5	20.0	16.2	12.5
85°	67.4	63.6	59.9	57.4	54.9	52.4	48.7	44.9	39.9	32.4	24.9
82.5°	118.5	111.0	103.5	94.8	87.3	79.8	73.6	67.4	59.9	48.7	37.4
80°	169.7	158.4	147.2	134.7	123.5	111.0	99.8	89.8	79.8	64.9	49.9
77.5°	220.8	205.8	189.6	174.6	158.4	142.2	126.0	112.3	97.3	79.8	62.4
75°	268.2	250.7	235.8	214.6	194.6	173.4	152.2	133.5	114.8	93.6	74.8
72.5°	315.6	293.2	271.9	252.0	229.5	203.3	179.6	155.9	132.2	107.3	84.8
70°	363.0	335.6	309.4	285.7	260.7	234.5	205.8	178.4	149.7	119.8	93.6
67.5°	411.7	380.5	350.5	320.6	291.9	262.0	232.0	200.8	167.2	132.2	103.5
65°	465.3	426.6	390.5	356.8	323.1	290.7	257.0	223.3	185.9	146.0	112.3
62.5°	518.9	476.5	434.1	391.7	354.3	318.1	281.9	244.5	203.3	160.9	121.0
60°	576.3	527.7	479.0	431.6	385.5	345.5	305.6	265.7	222.0	174.6	129.7
57.5°	639.9	581.3	526.4	472.8	420.4	373.0	329.3	286.9	238.3	188.4	139.7
55°	712.3	639.9	575.1	515.2	457.8	400.4	353.0	309.4	257.0	202.1	150.9
52.5°	788.4	704.8	626.2	558.9	497.7	432.9	375.5	326.8	275.7	215.8	160.9
50°	877.0	770.9	683.6	601.3	532.7	465.3	399.2	346.8	294.4	232.0	170.9
47.5°	968.0	850.8	741.0	651.2	570.1	496.5	426.6	364.3	311.9	247.0	180.9
45°	1074.1	926.9	805.9	699.8	606.3	528.9	454.1	383.0	326.8	262.0	190.9
42.5°	1176.4	1016.7	873.2	753.5	647.4	560.1	479.0	402.9	341.8	276.9	199.6
40°	1297.4	1106.5	938.1	804.6	688.6	590.0	504.0	424.1	355.5	290.7	208.3
37.5°	1413.4	1197.6	1016.7	860.7	728.5	620.0	528.9	444.1	368.0	304.4	219.6
35°	1528.1	1298.6	1091.5	913.1	769.7	653.7	553.9	462.8	380.5	315.6	229.5
32.5°	1637.9	1393.4	1167.6	971.8	814.6	684.9	576.3	480.3	392.9	325.6	239.5
30°	1740.2	1483.2	1242.5	1031.6	855.8	713.5	597.5	497.7	407.9	334.3	249.5
27.5°	1833.8	1570.5	1317.3	1087.8	894.4	739.7	620.0	514.0	420.4	343.1	258.2
25°	1918.6	1649.1	1385.9	1138.9	929.4	768.4	641.2	530.2	431.6	350.5	265.7
22.5°	1998.4	1721.5	1448.3	1190.1	971.8	797.1	661.2	545.1	442.8	358.0	273.2
20°	2068.3	1787.6	1508.2	1241.2	1009.2	823.3	678.6	558.9	452.8	363.0	280.7
17.5°	2124.4	1846.2	1561.8	1286.1	1041.6	845.8	693.6	571.3	461.6	369.2	285.7
15°	2174.3	1896.1	1606.7	1324.8	1070.3	864.5	707.3	581.3	469.0	373.0	291.9
12.5°	2216.7	1938.5	1645.4	1358.5	1095.3	880.7	718.5	588.8	475.3	376.7	295.6
10°	2251.7	1972.2	1677.8	1384.7	1115.2	893.2	727.3	596.3	480.3	380.5	299.4
7.5°	2277.9	1997.2	1701.5	1407.1	1131.4	901.9	734.8	601.3	485.3	383.0	305.6
5°	2297.8	2018.4	1720.2	1422.1	1143.9	914.4	743.5	607.5	490.3	385.5	305.6
2.5°	2312.8	2035.8	1735.2	1434.6	1153.9	911.9	743.5	606.3	490.3	385.5	304.4
0°	2310.3	2037.1	1734.0	1434.6	1153.9	909.4	743.5	605.0	490.3	385.5	304.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.7	6.2	2.5	0.0
85°	18.7	12.5	6.2	0.0
82.5°	27.4	17.5	8.7	0.0
80°	36.2	23.7	11.2	0.0
77.5°	46.2	29.9	15.0	0.0
75°	54.9	34.9	17.5	0.0
72.5°	63.6	41.2	20.0	0.0
70°	71.1	46.2	22.5	0.0
67.5°	78.6	52.4	26.2	0.0
65°	84.8	57.4	28.7	0.0
62.5°	89.8	63.6	31.2	0.0
60°	96.1	68.6	33.7	0.0
57.5°	101.0	72.4	36.2	0.0
55°	106.0	74.8	38.7	0.0
52.5°	111.0	78.6	41.2	0.0
50°	116.0	82.3	43.7	0.0
47.5°	121.0	84.8	44.9	0.0
45°	128.5	88.6	47.4	0.0
42.5°	134.7	91.1	49.9	0.0
40°	141.0	93.6	51.1	0.0
37.5°	147.2	96.1	53.6	0.0
35°	153.4	98.5	54.9	0.0
32.5°	158.4	101.0	56.1	0.0
30°	163.4	103.5	57.4	0.0
27.5°	168.4	104.8	58.6	0.0
25°	172.1	107.3	59.9	0.0
22.5°	175.9	108.5	61.1	0.0
20°	178.4	109.8	62.4	0.0
17.5°	182.1	111.0	63.6	0.0
15°	183.4	112.3	66.1	0.0
12.5°	185.9	113.5	66.1	0.0
10°	187.1	114.8	66.1	0.0
7.5°	189.6	114.8	66.1	0.0
5°	188.4	114.8	66.1	0.0
2.5°	188.4	114.8	66.1	0.0
0°	187.1	114.8	66.1	0.0

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