

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: P628155

Luminaire Tested: **IFLD-S-SA3A-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628155  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

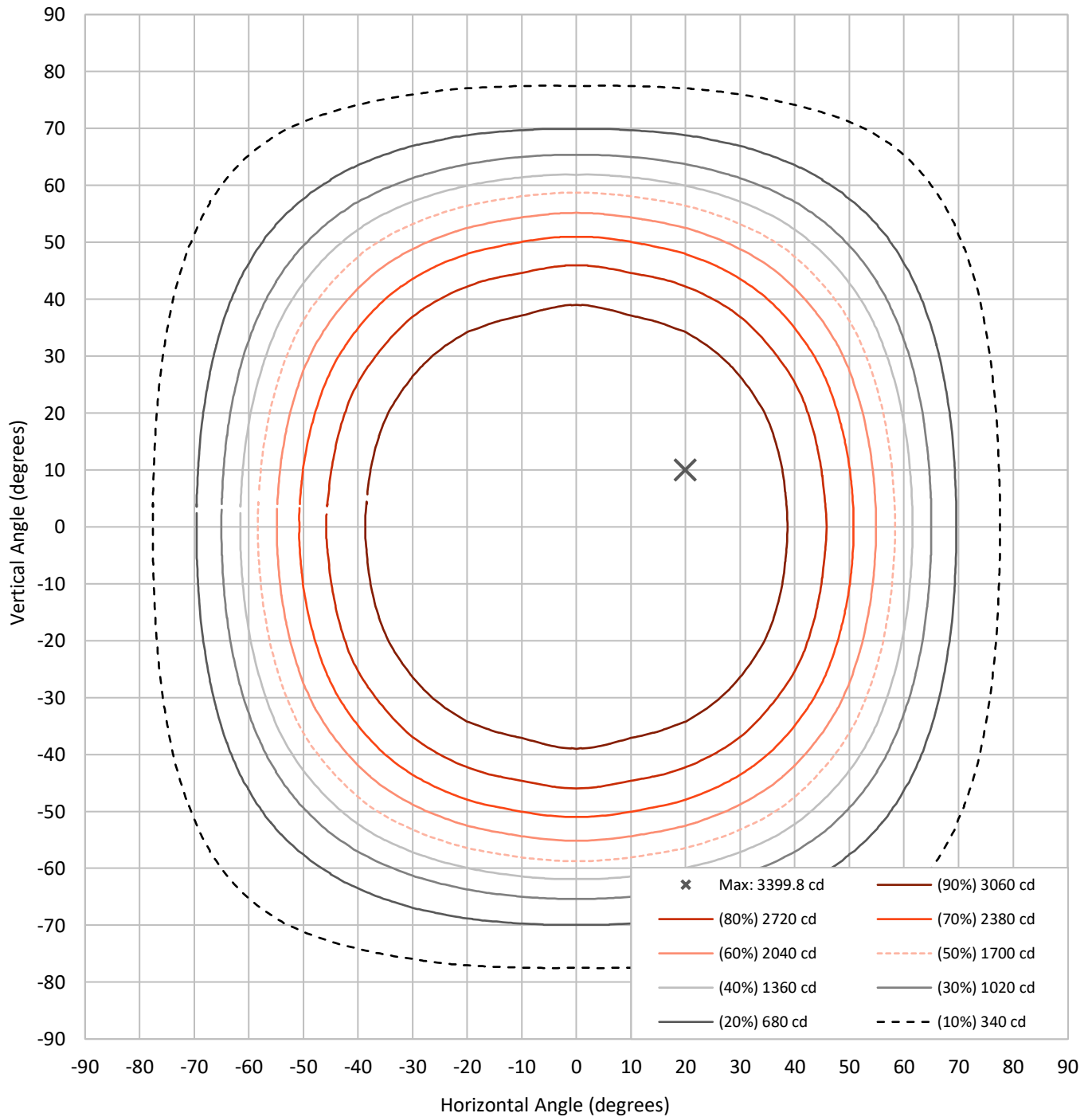
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10430.2 lumens	Max Intensity:	3399.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	110.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6400.2 lumens	Field Lumens:	7672.7 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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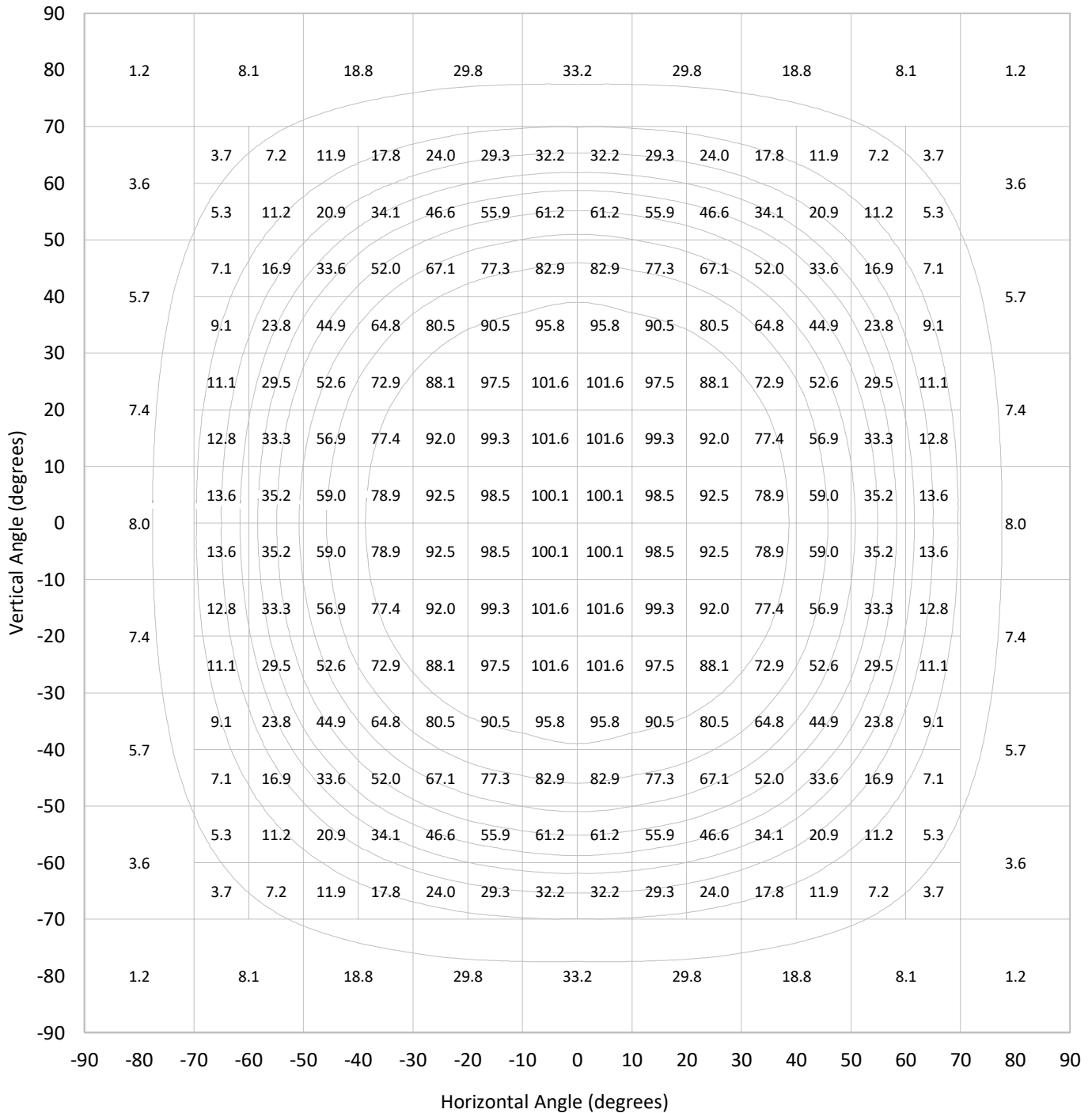
### Iso-Candela Plot





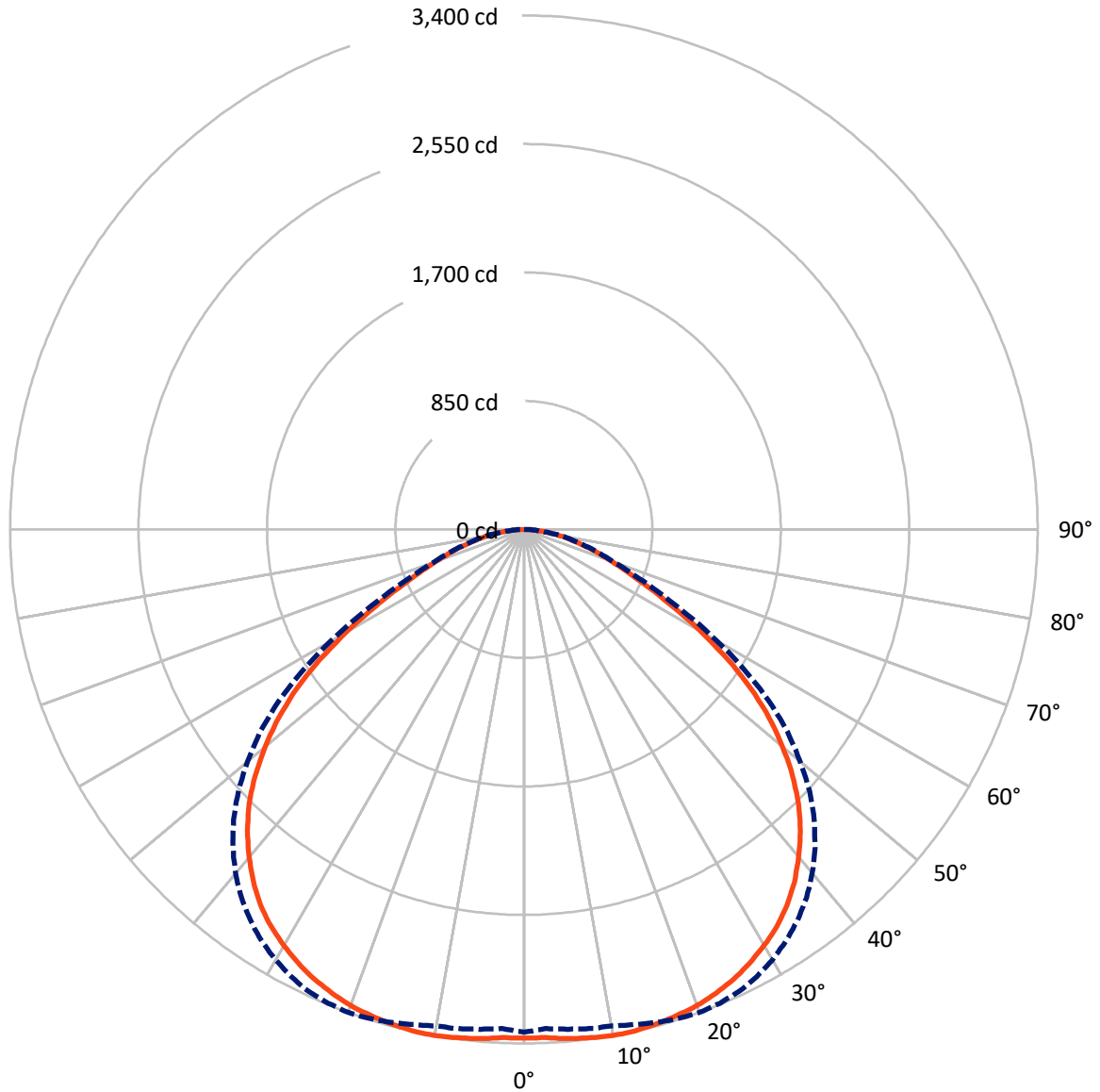
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### Lumen Table



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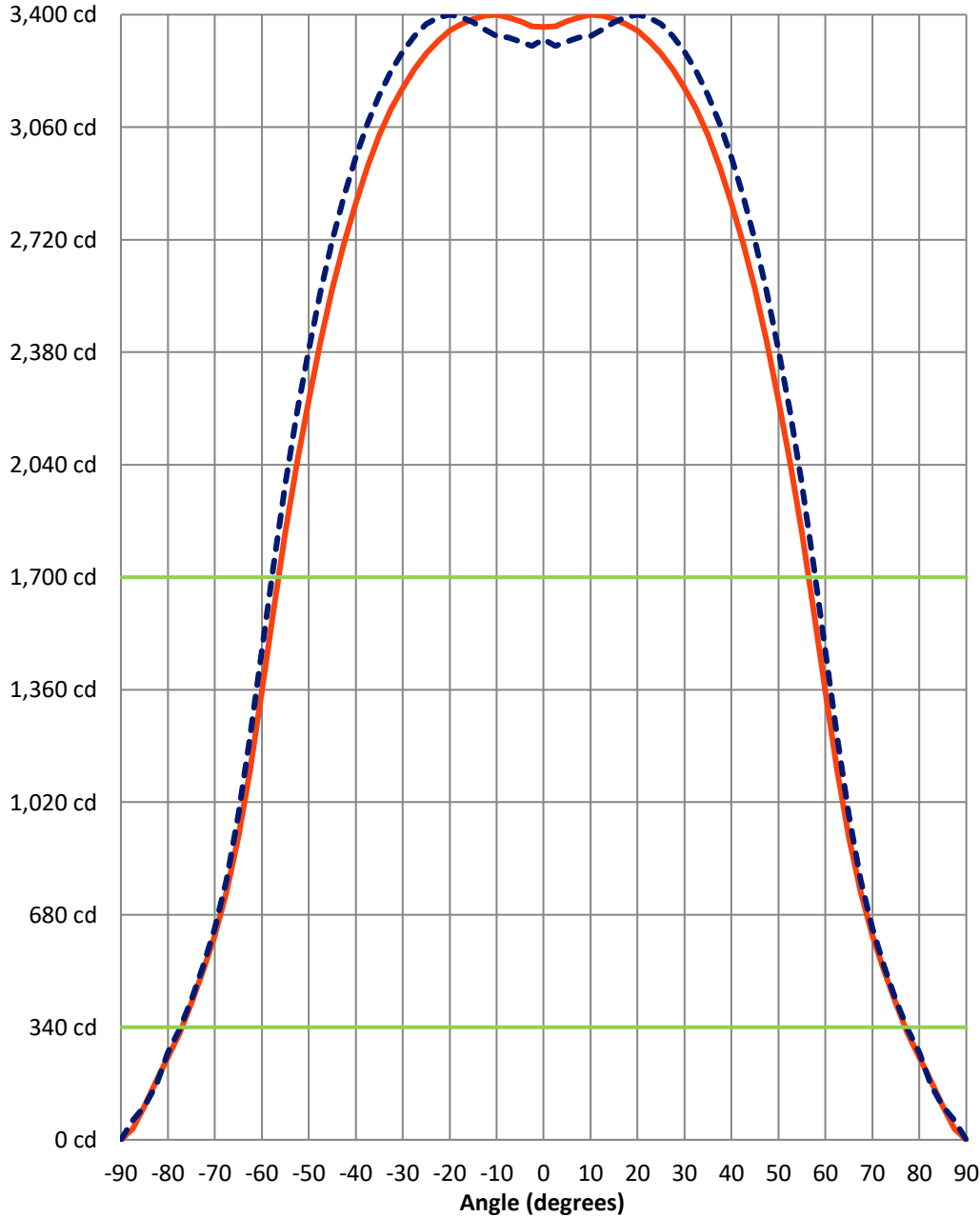
### Luminous Intensity Polar Plot



— 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: 6400.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 7672.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2757.5  
 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°	27.4	29.6	30.7	31.8	32.9	34.0	35.1	34.0	32.9	32.9	31.8
85°	73.5	75.7	76.8	84.5	92.2	96.6	102.1	101.0	101.0	99.9	98.8
82.5°	147.1	153.6	159.1	166.8	171.2	177.8	182.2	178.9	176.7	172.3	169.0
80°	261.2	263.4	264.5	265.6	260.1	259.0	256.8	253.5	249.1	243.6	238.1
77.5°	332.5	334.7	336.9	334.7	333.6	332.5	329.2	325.9	321.5	317.2	310.6
75°	440.1	440.1	440.1	436.8	434.6	431.3	425.8	420.3	412.6	403.9	394.0
72.5°	554.2	553.1	552.0	545.4	539.9	533.3	525.7	519.1	510.3	500.4	487.3
70°	673.8	676.0	677.1	668.3	661.7	653.0	643.1	631.0	617.8	603.6	584.9
67.5°	838.4	836.2	834.0	822.0	813.2	801.1	786.9	769.3	749.5	727.6	701.3
65°	1042.6	1045.8	1039.3	1027.2	1010.7	991.0	969.0	943.8	914.2	881.2	843.9
62.5°	1289.5	1295.0	1287.3	1271.9	1251.1	1224.7	1194.0	1157.8	1117.2	1071.1	1025.0
60°	1570.4	1569.3	1555.0	1534.2	1506.8	1473.8	1439.8	1400.3	1354.2	1300.4	1244.5
57.5°	1828.3	1826.1	1808.6	1787.7	1760.3	1725.1	1688.9	1647.2	1598.9	1541.9	1477.1
55°	2059.9	2057.7	2040.1	2018.2	1989.6	1954.5	1921.6	1882.1	1834.9	1774.5	1705.4
52.5°	2265.1	2266.2	2250.8	2226.7	2195.9	2161.9	2130.1	2090.6	2045.6	1985.2	1918.3
50°	2453.8	2452.7	2436.3	2414.3	2385.8	2352.9	2321.0	2281.5	2234.4	2176.2	2111.4
47.5°	2629.4	2627.2	2608.6	2584.4	2554.8	2526.3	2496.6	2461.5	2412.1	2354.0	2289.2
45°	2776.5	2772.1	2753.4	2730.4	2701.9	2676.6	2650.3	2623.9	2571.3	2517.5	2456.0
42.5°	2902.7	2901.6	2882.9	2859.9	2831.3	2809.4	2785.3	2752.3	2708.4	2659.1	2598.7
40°	3023.4	3014.6	2996.0	2974.0	2947.7	2929.0	2904.9	2872.0	2829.2	2780.9	2722.7
37.5°	3113.4	3114.5	3094.7	3070.6	3047.5	3030.0	3008.0	2977.3	2940.0	2892.8	2834.6
35°	3199.0	3193.5	3177.0	3156.2	3135.3	3115.6	3092.5	3066.2	3035.5	2991.6	2936.7
32.5°	3255.0	3262.6	3242.9	3220.9	3208.9	3193.5	3169.4	3141.9	3114.5	3070.6	3021.2
30°	3316.4	3309.8	3294.5	3275.8	3267.0	3257.1	3236.3	3210.0	3178.1	3138.6	3092.5
27.5°	3359.2	3355.9	3337.3	3319.7	3315.3	3306.5	3290.1	3267.0	3235.2	3196.8	3154.0
25°	3377.9	3380.1	3362.5	3352.6	3352.6	3347.1	3334.0	3314.2	3282.4	3247.3	3205.6
22.5°	3386.6	3384.4	3372.4	3370.2	3375.7	3371.3	3365.8	3348.2	3319.7	3291.2	3256.1
20°	3392.1	3376.8	3365.8	3374.6	3381.2	3380.1	3375.7	3364.7	3351.5	3327.4	3296.7
17.5°	3380.1	3370.2	3357.0	3370.2	3384.4	3385.5	3381.2	3374.6	3371.3	3355.9	3328.5
15°	3350.4	3342.7	3344.9	3358.1	3374.6	3380.1	3383.4	3391.0	3386.6	3374.6	3350.4
12.5°	3330.7	3320.8	3330.7	3343.8	3352.6	3355.9	3382.3	3396.5	3396.5	3385.5	3370.2
10°	3325.2	3305.4	3318.6	3330.7	3335.1	3354.8	3376.8	3392.1	3399.8	3391.0	3371.3
7.5°	3314.2	3301.0	3306.5	3312.0	3337.3	3351.5	3363.6	3380.1	3391.0	3389.9	3372.4
5°	3308.7	3292.3	3294.5	3317.5	3335.1	3344.9	3349.3	3363.6	3380.1	3383.4	3370.2
2.5°	3294.5	3286.8	3303.2	3305.4	3318.6	3326.3	3330.7	3343.8	3364.7	3372.4	3366.9
0°	3286.8	3275.8	3264.8	3273.6	3295.6	3312.0	3318.6	3338.4	3362.5	3370.2	3358.1



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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°	30.7	29.6	28.5	27.4	28.5	28.5	28.5	27.4	28.5	27.4	27.4
85°	95.5	91.1	87.8	83.4	79.0	75.7	71.3	66.9	65.8	64.7	62.6
82.5°	164.6	159.1	153.6	147.1	140.5	132.8	125.1	116.3	114.1	111.9	108.6
80°	231.6	223.9	216.2	208.5	201.9	194.2	185.5	175.6	169.0	163.5	156.9
77.5°	301.8	290.8	279.8	266.7	259.0	251.3	242.5	232.7	222.8	214.0	204.1
75°	381.9	369.8	358.9	345.7	331.4	317.2	302.9	289.7	275.5	262.3	249.1
72.5°	470.8	453.2	435.7	419.2	401.7	384.1	365.4	347.9	330.3	312.8	294.1
70°	564.1	542.1	520.2	498.2	475.2	452.1	430.2	408.2	386.3	363.2	342.4
67.5°	673.8	648.6	620.0	589.3	555.3	525.7	497.1	470.8	444.5	418.1	391.8
65°	811.0	775.9	737.5	695.8	656.3	616.8	575.0	535.5	504.8	474.1	444.5
62.5°	980.0	930.6	876.8	823.1	774.8	723.2	674.9	623.3	575.0	531.2	494.9
60°	1181.9	1115.0	1049.1	980.0	913.1	842.8	781.4	717.7	657.4	603.6	550.9
57.5°	1404.7	1326.8	1247.8	1163.3	1072.2	989.9	906.5	823.1	751.7	680.4	621.1
55°	1630.8	1548.5	1459.6	1364.1	1264.2	1158.9	1045.8	952.6	854.9	771.5	694.7
52.5°	1845.9	1760.3	1668.1	1580.3	1460.7	1340.0	1215.9	1093.0	978.9	872.5	779.2
50°	2037.9	1954.5	1865.6	1763.6	1652.7	1524.3	1386.0	1247.8	1112.8	987.7	871.4
47.5°	2213.5	2132.3	2043.4	1941.3	1840.4	1697.7	1558.3	1405.8	1255.5	1111.7	975.6
45°	2378.1	2295.8	2203.6	2106.0	1989.6	1862.3	1718.6	1564.9	1403.6	1242.3	1085.4
42.5°	2527.4	2445.1	2351.8	2250.8	2135.6	2009.4	1870.0	1715.3	1552.9	1377.3	1205.0
40°	2658.0	2577.8	2487.9	2382.5	2275.0	2142.2	2005.0	1857.9	1690.0	1513.3	1323.5
37.5°	2772.1	2697.5	2608.6	2504.3	2390.2	2271.7	2130.1	1983.0	1831.6	1639.5	1445.3
35°	2873.1	2803.9	2712.8	2614.1	2502.1	2377.0	2244.2	2100.5	1936.9	1757.0	1568.2
32.5°	2960.8	2890.6	2807.2	2708.4	2599.8	2482.4	2346.3	2201.4	2046.7	1863.4	1658.2
30°	3035.5	2967.4	2888.4	2795.1	2690.9	2574.6	2441.8	2295.8	2137.8	1955.6	1752.6
27.5°	3100.2	3035.5	2958.6	2872.0	2772.1	2660.2	2526.3	2379.2	2217.9	2042.3	1839.3
25°	3156.2	3093.6	3022.3	2940.0	2841.2	2731.5	2605.3	2451.6	2290.3	2113.6	1912.8
22.5°	3206.7	3146.3	3075.0	2994.9	2904.9	2795.1	2667.8	2515.3	2351.8	2177.3	1979.7
20°	3251.7	3195.7	3125.5	3043.2	2953.2	2842.3	2716.1	2571.3	2406.6	2235.4	2040.1
17.5°	3287.9	3238.5	3168.3	3081.6	2991.6	2884.0	2761.1	2628.3	2453.8	2284.8	2090.6
15°	3313.1	3264.8	3201.2	3113.4	3025.6	2919.1	2796.2	2659.1	2496.6	2324.3	2132.3
12.5°	3330.7	3279.1	3219.8	3138.6	3050.8	2945.5	2825.9	2690.9	2532.9	2359.5	2168.5
10°	3335.1	3287.9	3228.6	3156.2	3070.6	2968.5	2851.1	2717.2	2562.5	2386.9	2198.1
7.5°	3337.3	3292.3	3238.5	3169.4	3084.9	2986.1	2869.8	2738.1	2584.4	2409.9	2220.1
5°	3336.2	3293.4	3245.1	3178.1	3093.6	2996.0	2881.8	2752.3	2599.8	2425.3	2236.5
2.5°	3332.9	3294.5	3249.5	3184.7	3103.5	3006.9	2893.9	2768.8	2616.3	2438.5	2249.7
0°	3341.7	3308.7	3251.7	3182.5	3105.7	3006.9	2892.8	2771.0	2618.4	2437.4	2248.6





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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°	27.4	26.3	26.3	25.2	24.1	23.0	20.9	19.8	17.6	14.3	11.0
85°	59.3	56.0	52.7	50.5	48.3	46.1	42.8	39.5	35.1	28.5	21.9
82.5°	104.3	97.7	91.1	83.4	76.8	70.2	64.7	59.3	52.7	42.8	32.9
80°	149.2	139.4	129.5	118.5	108.6	97.7	87.8	79.0	70.2	57.1	43.9
77.5°	194.2	181.1	166.8	153.6	139.4	125.1	110.8	98.8	85.6	70.2	54.9
75°	235.9	220.6	207.4	188.8	171.2	152.5	133.9	117.4	101.0	82.3	65.8
72.5°	277.6	257.9	239.2	221.7	201.9	178.9	158.0	137.2	116.3	94.4	74.6
70°	319.3	295.2	272.2	251.3	229.4	206.3	181.1	156.9	131.7	105.4	82.3
67.5°	362.1	334.7	308.4	282.0	256.8	230.5	204.1	176.7	147.1	116.3	91.1
65°	409.3	375.3	343.5	313.9	284.2	255.7	226.1	196.4	163.5	128.4	98.8
62.5°	456.5	419.2	381.9	344.6	311.7	279.8	248.0	215.1	178.9	141.6	106.4
60°	507.0	464.2	421.4	379.7	339.1	304.0	268.9	233.8	195.3	153.6	114.1
57.5°	563.0	511.4	463.1	415.9	369.8	328.1	289.7	252.4	209.6	165.7	122.9
55°	626.6	563.0	505.9	453.2	402.8	352.3	310.6	272.2	226.1	177.8	132.8
52.5°	693.6	620.0	550.9	491.6	437.9	380.8	330.3	287.5	242.5	189.9	141.6
50°	771.5	678.2	601.4	529.0	468.6	409.3	351.2	305.1	259.0	204.1	150.3
47.5°	851.6	748.4	651.9	572.9	501.5	436.8	375.3	320.4	274.4	217.3	159.1
45°	944.9	815.4	708.9	615.7	533.3	465.3	399.5	336.9	287.5	230.5	167.9
42.5°	1034.9	894.4	768.2	662.8	569.6	492.7	421.4	354.5	300.7	243.6	175.6
40°	1141.3	973.4	825.3	707.8	605.8	519.1	443.4	373.1	312.8	255.7	183.3
37.5°	1243.4	1053.5	894.4	757.2	640.9	545.4	465.3	390.7	323.7	267.8	193.1
35°	1344.3	1142.4	960.2	803.3	677.1	575.0	487.3	407.1	334.7	277.6	201.9
32.5°	1440.9	1225.8	1027.2	854.9	716.6	602.5	507.0	422.5	345.7	286.4	210.7
30°	1530.9	1304.8	1093.0	907.6	752.8	627.7	525.7	437.9	358.9	294.1	219.5
27.5°	1613.2	1381.7	1158.9	957.0	786.9	650.8	545.4	452.1	369.8	301.8	227.2
25°	1687.8	1450.8	1219.2	1001.9	817.6	676.0	564.1	466.4	379.7	308.4	233.8
22.5°	1758.1	1514.4	1274.1	1046.9	854.9	701.3	581.6	479.6	389.6	315.0	240.3
20°	1819.5	1572.6	1326.8	1091.9	887.8	724.3	597.0	491.6	398.4	319.3	246.9
17.5°	1868.9	1624.2	1374.0	1131.4	916.3	744.1	610.2	502.6	406.0	324.8	251.3
15°	1912.8	1668.1	1413.5	1165.5	941.6	760.5	622.2	511.4	412.6	328.1	256.8
12.5°	1950.1	1705.4	1447.5	1195.1	963.5	774.8	632.1	518.0	418.1	331.4	260.1
10°	1980.8	1735.0	1476.0	1218.1	981.1	785.8	639.8	524.6	422.5	334.7	263.4
7.5°	2003.9	1757.0	1496.9	1237.9	995.4	793.4	646.4	529.0	426.9	336.9	268.9
5°	2021.5	1775.6	1513.3	1251.1	1006.3	804.4	654.1	534.4	431.3	339.1	268.9
2.5°	2034.6	1791.0	1526.5	1262.0	1015.1	802.2	654.1	533.3	431.3	339.1	267.8
0°	2032.4	1792.1	1525.4	1262.0	1015.1	800.0	654.1	532.2	431.3	339.1	267.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	5.5	2.2	0.0
85°	16.5	11.0	5.5	0.0
82.5°	24.1	15.4	7.7	0.0
80°	31.8	20.9	9.9	0.0
77.5°	40.6	26.3	13.2	0.0
75°	48.3	30.7	15.4	0.0
72.5°	56.0	36.2	17.6	0.0
70°	62.6	40.6	19.8	0.0
67.5°	69.1	46.1	23.0	0.0
65°	74.6	50.5	25.2	0.0
62.5°	79.0	56.0	27.4	0.0
60°	84.5	60.4	29.6	0.0
57.5°	88.9	63.7	31.8	0.0
55°	93.3	65.8	34.0	0.0
52.5°	97.7	69.1	36.2	0.0
50°	102.1	72.4	38.4	0.0
47.5°	106.4	74.6	39.5	0.0
45°	113.0	77.9	41.7	0.0
42.5°	118.5	80.1	43.9	0.0
40°	124.0	82.3	45.0	0.0
37.5°	129.5	84.5	47.2	0.0
35°	135.0	86.7	48.3	0.0
32.5°	139.4	88.9	49.4	0.0
30°	143.8	91.1	50.5	0.0
27.5°	148.2	92.2	51.6	0.0
25°	151.4	94.4	52.7	0.0
22.5°	154.7	95.5	53.8	0.0
20°	156.9	96.6	54.9	0.0
17.5°	160.2	97.7	56.0	0.0
15°	161.3	98.8	58.2	0.0
12.5°	163.5	99.9	58.2	0.0
10°	164.6	101.0	58.2	0.0
7.5°	166.8	101.0	58.2	0.0
5°	165.7	101.0	58.2	0.0
2.5°	165.7	101.0	58.2	0.0
0°	164.6	101.0	58.2	0.0

(END OF REPORT)