

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: P628237

Luminaire Tested: **IFLD-S-SA2A-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628237  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9371.4 lumens	Max Intensity:	3054.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	146.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

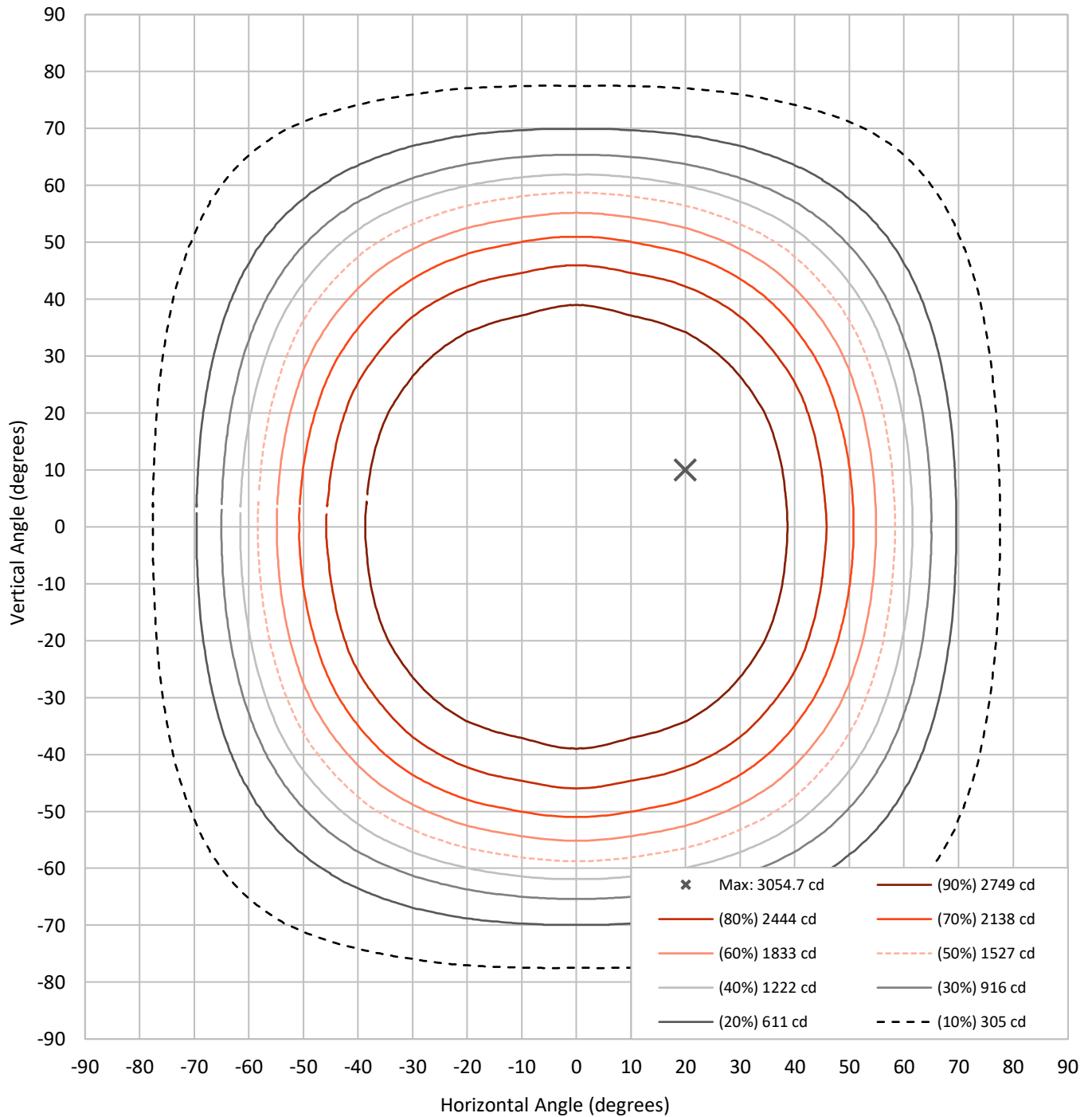
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5750.5 lumens	Field Lumens:	6893.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 63.8  
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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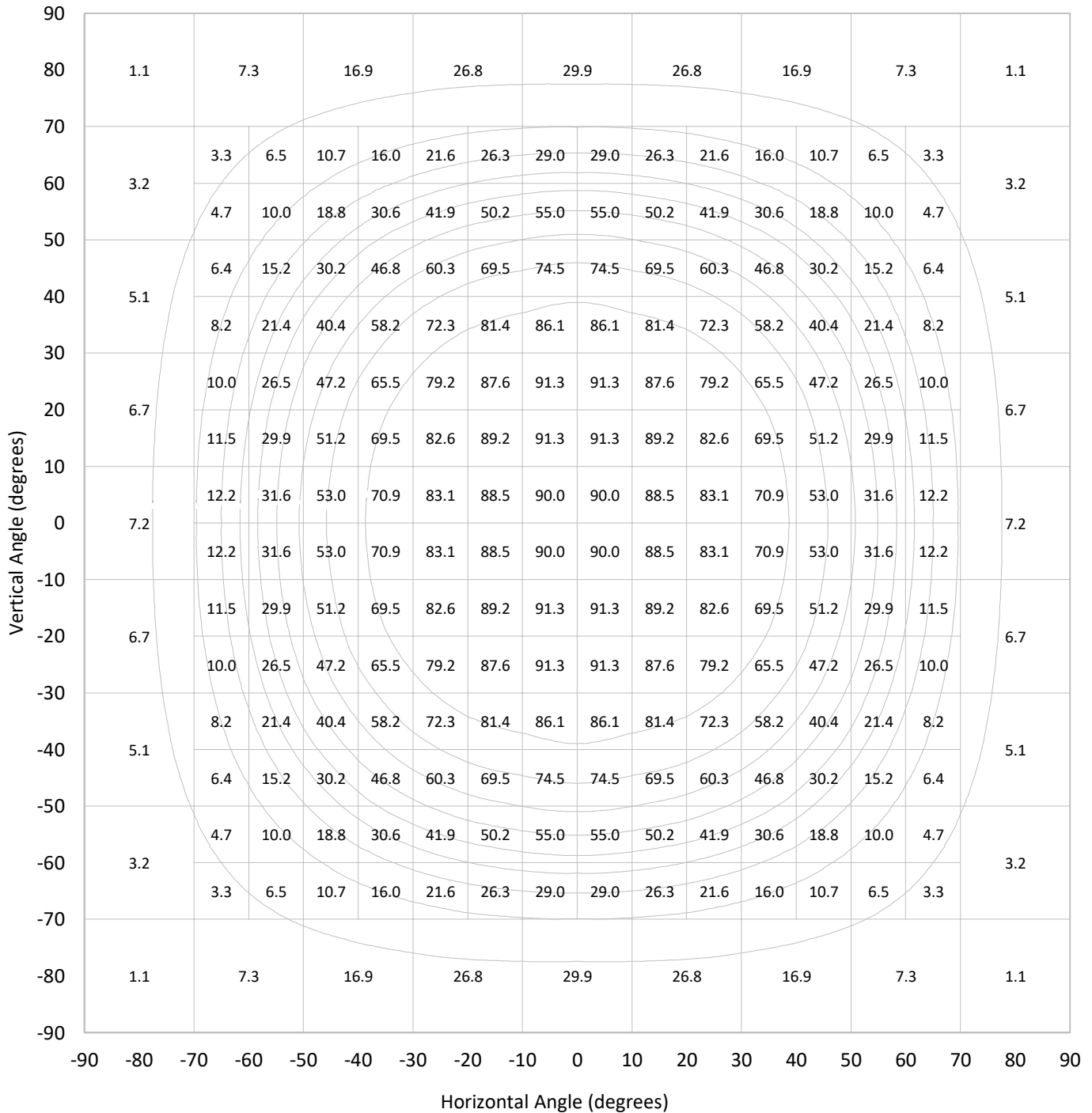
### Iso-Candela Plot





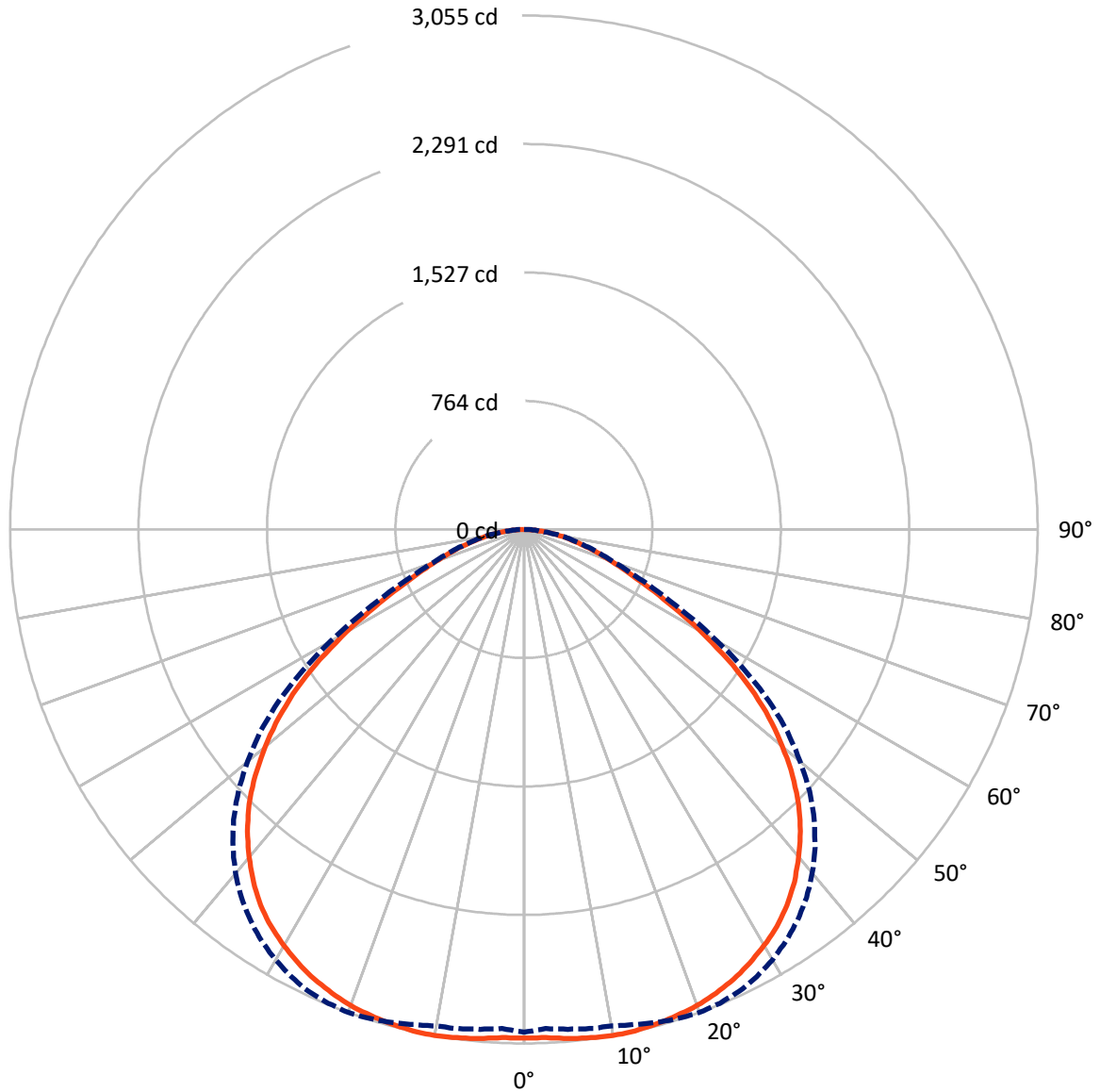
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### Lumen Table



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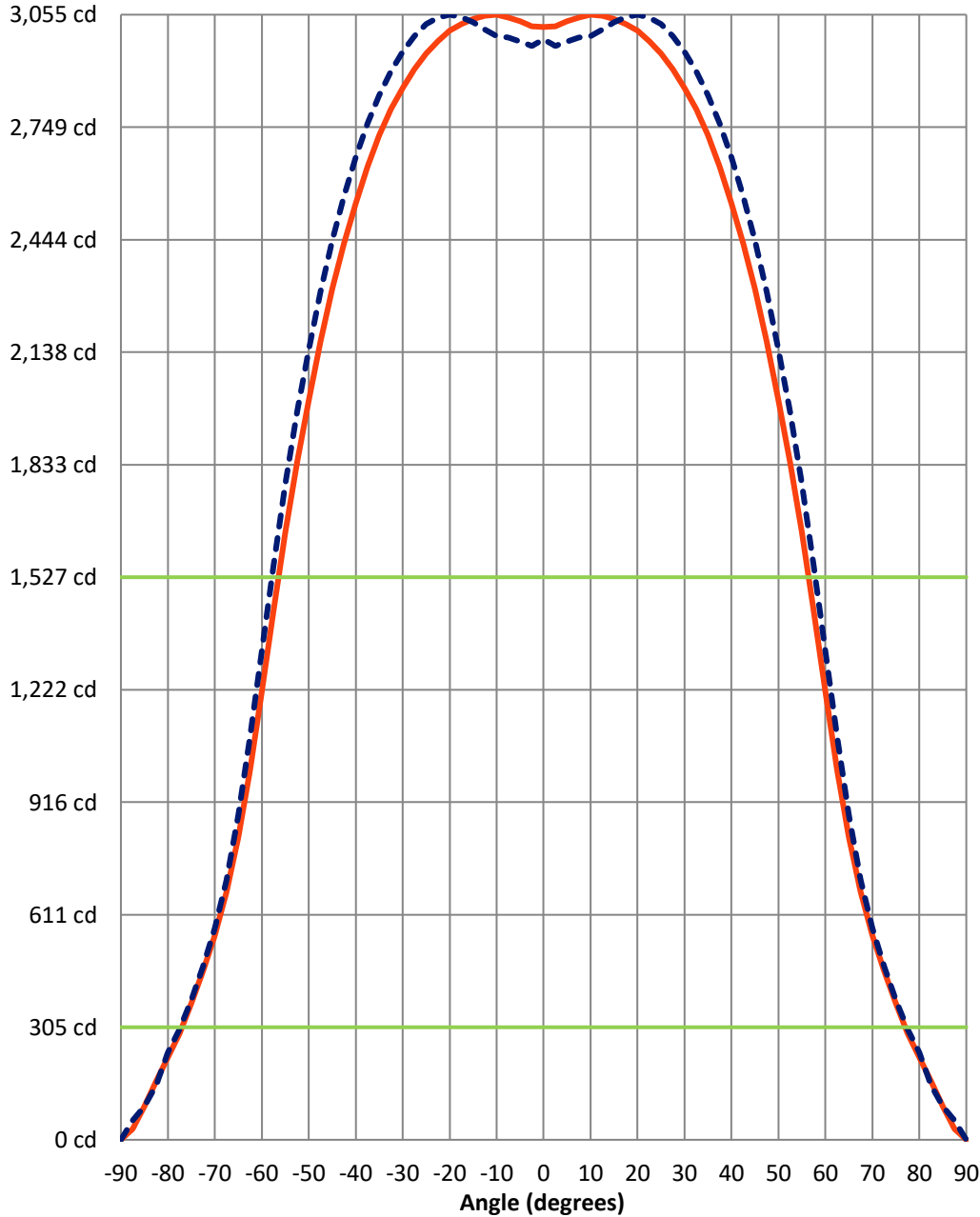
### Luminous Intensity Polar Plot



— 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: 5750.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 6893.8  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2477.5  
 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°	24.7	26.6	27.6	28.6	29.6	30.6	31.6	30.6	29.6	29.6	28.6
85°	66.1	68.0	69.0	75.9	82.8	86.8	91.7	90.7	90.7	89.7	88.7
82.5°	132.1	138.0	143.0	149.9	153.8	159.7	163.7	160.7	158.7	154.8	151.8
80°	234.7	236.6	237.6	238.6	233.7	232.7	230.7	227.8	223.8	218.9	214.0
77.5°	298.8	300.7	302.7	300.7	299.7	298.8	295.8	292.8	288.9	285.0	279.0
75°	395.4	395.4	395.4	392.4	390.5	387.5	382.6	377.6	370.7	362.9	354.0
72.5°	497.9	497.0	496.0	490.1	485.1	479.2	472.3	466.4	458.5	449.6	437.8
70°	605.4	607.4	608.4	600.5	594.6	586.7	577.8	567.0	555.1	542.3	525.5
67.5°	753.3	751.3	749.4	738.5	730.6	719.8	707.0	691.2	673.5	653.7	630.1
65°	936.7	939.7	933.8	922.9	908.1	890.4	870.7	848.0	821.4	791.8	758.2
62.5°	1158.6	1163.5	1156.6	1142.8	1124.1	1100.4	1072.8	1040.2	1003.8	962.4	920.9
60°	1411.0	1410.0	1397.2	1378.5	1353.8	1324.2	1293.7	1258.2	1216.7	1168.4	1118.1
57.5°	1642.7	1640.7	1625.0	1606.2	1581.6	1550.0	1517.5	1480.0	1436.6	1385.4	1327.2
55°	1850.8	1848.8	1833.0	1813.3	1787.7	1756.1	1726.5	1691.0	1648.6	1594.4	1532.3
52.5°	2035.1	2036.1	2022.3	2000.6	1973.0	1942.5	1913.9	1878.4	1837.9	1783.7	1723.6
50°	2204.7	2203.8	2189.0	2169.2	2143.6	2114.0	2085.4	2049.9	2007.5	1955.3	1897.1
47.5°	2362.5	2360.5	2343.8	2322.1	2295.5	2269.8	2243.2	2211.6	2167.3	2115.0	2056.8
45°	2494.6	2490.7	2473.9	2453.2	2427.6	2404.9	2381.2	2357.6	2310.2	2261.9	2206.7
42.5°	2608.0	2607.0	2590.3	2569.6	2543.9	2524.2	2502.5	2472.9	2433.5	2389.1	2334.9
40°	2716.5	2708.6	2691.8	2672.1	2648.4	2631.7	2610.0	2580.4	2542.0	2498.6	2446.3
37.5°	2797.3	2798.3	2780.6	2758.9	2738.2	2722.4	2702.7	2675.1	2641.5	2599.1	2546.9
35°	2874.2	2869.3	2854.5	2835.8	2817.1	2799.3	2778.6	2754.9	2727.3	2687.9	2638.6
32.5°	2924.5	2931.4	2913.7	2894.0	2883.1	2869.3	2847.6	2823.0	2798.3	2758.9	2714.5
30°	2979.7	2973.8	2960.0	2943.3	2935.4	2926.5	2907.8	2884.1	2855.5	2820.0	2778.6
27.5°	3018.2	3015.2	2998.5	2982.7	2978.8	2970.9	2956.1	2935.4	2906.8	2872.3	2833.8
25°	3035.0	3036.9	3021.2	3012.3	3012.3	3007.4	2995.5	2977.8	2949.2	2917.6	2880.2
22.5°	3042.9	3040.9	3030.0	3028.1	3033.0	3029.1	3024.1	3008.3	2982.7	2957.1	2925.5
20°	3047.8	3034.0	3024.1	3032.0	3037.9	3036.9	3033.0	3023.1	3011.3	2989.6	2962.0
17.5°	3036.9	3028.1	3016.2	3028.1	3040.9	3041.9	3037.9	3032.0	3029.1	3015.2	2990.6
15°	3010.3	3003.4	3005.4	3017.2	3032.0	3036.9	3039.9	3046.8	3042.9	3032.0	3010.3
12.5°	2992.6	2983.7	2992.6	3004.4	3012.3	3015.2	3038.9	3051.7	3051.7	3041.9	3028.1
10°	2987.6	2969.9	2981.7	2992.6	2996.5	3014.3	3034.0	3047.8	3054.7	3046.8	3029.1
7.5°	2977.8	2965.9	2970.9	2975.8	2998.5	3011.3	3022.1	3036.9	3046.8	3045.8	3030.0
5°	2972.8	2958.1	2960.0	2980.7	2996.5	3005.4	3009.3	3022.1	3036.9	3039.9	3028.1
2.5°	2960.0	2953.1	2967.9	2969.9	2981.7	2988.6	2992.6	3004.4	3023.1	3030.0	3025.1
0°	2953.1	2943.3	2933.4	2941.3	2961.0	2975.8	2981.7	2999.5	3021.2	3028.1	3017.2



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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°	27.6	26.6	25.6	24.7	25.6	25.6	25.6	24.7	25.6	24.7	24.7
85°	85.8	81.8	78.9	74.9	71.0	68.0	64.1	60.1	59.2	58.2	56.2
82.5°	147.9	143.0	138.0	132.1	126.2	119.3	112.4	104.5	102.5	100.6	97.6
80°	208.0	201.1	194.2	187.3	181.4	174.5	166.6	157.8	151.8	146.9	141.0
77.5°	271.2	261.3	251.4	239.6	232.7	225.8	217.9	209.0	200.2	192.3	183.4
75°	343.1	332.3	322.4	310.6	297.8	285.0	272.1	260.3	247.5	235.7	223.8
72.5°	423.0	407.2	391.4	376.7	360.9	345.1	328.3	312.6	296.8	281.0	264.3
70°	506.8	487.1	467.4	447.7	426.9	406.2	386.5	366.8	347.1	326.4	307.6
67.5°	605.4	582.7	557.1	529.5	498.9	472.3	446.7	423.0	399.3	375.7	352.0
65°	728.7	697.1	662.6	625.1	589.6	554.1	516.7	481.2	453.6	426.0	399.3
62.5°	880.5	836.1	787.8	739.5	696.1	649.8	606.4	560.1	516.7	477.2	444.7
60°	1061.9	1001.8	942.6	880.5	820.4	757.3	702.0	644.9	590.6	542.3	495.0
57.5°	1262.1	1192.1	1121.1	1045.2	963.3	889.4	814.5	739.5	675.4	611.3	558.1
55°	1465.2	1391.3	1311.4	1225.6	1135.9	1041.2	939.7	855.9	768.1	693.2	624.1
52.5°	1658.5	1581.6	1498.7	1419.9	1312.4	1203.9	1092.5	982.1	879.5	783.9	700.1
50°	1831.0	1756.1	1676.2	1584.5	1484.9	1369.6	1245.3	1121.1	999.8	887.4	782.9
47.5°	1988.8	1915.8	1836.0	1744.3	1653.6	1525.4	1400.1	1263.1	1128.0	998.8	876.6
45°	2136.7	2062.8	1979.9	1892.2	1787.7	1673.3	1544.1	1406.1	1261.1	1116.2	975.2
42.5°	2270.8	2196.9	2113.0	2022.3	1918.8	1805.4	1680.2	1541.1	1395.2	1237.5	1082.6
40°	2388.1	2316.2	2235.3	2140.6	2044.0	1924.7	1801.5	1669.3	1518.5	1359.7	1189.1
37.5°	2490.7	2423.6	2343.8	2250.1	2147.5	2041.1	1913.9	1781.7	1645.7	1473.1	1298.6
35°	2581.4	2519.3	2437.4	2348.7	2248.1	2135.7	2016.4	1887.2	1740.3	1578.6	1409.0
32.5°	2660.3	2597.2	2522.2	2433.5	2335.9	2230.4	2108.1	1978.0	1838.9	1674.3	1489.9
30°	2727.3	2666.2	2595.2	2511.4	2417.7	2313.2	2193.9	2062.8	1920.8	1757.1	1574.7
27.5°	2785.5	2727.3	2658.3	2580.4	2490.7	2390.1	2269.8	2137.7	1992.7	1835.0	1652.6
25°	2835.8	2779.6	2715.5	2641.5	2552.8	2454.2	2340.8	2202.8	2057.8	1899.1	1718.6
22.5°	2881.1	2826.9	2762.8	2690.8	2610.0	2511.4	2397.0	2260.0	2113.0	1956.3	1778.8
20°	2921.6	2871.3	2808.2	2734.2	2653.4	2553.8	2440.4	2310.2	2162.3	2008.5	1833.0
17.5°	2954.1	2909.7	2846.6	2768.7	2687.9	2591.3	2480.8	2361.5	2204.7	2052.9	1878.4
15°	2976.8	2933.4	2876.2	2797.3	2718.5	2622.8	2512.4	2389.1	2243.2	2088.4	1915.8
12.5°	2992.6	2946.2	2893.0	2820.0	2741.1	2646.5	2539.0	2417.7	2275.7	2119.9	1948.4
10°	2996.5	2954.1	2900.9	2835.8	2758.9	2667.2	2561.7	2441.4	2302.4	2144.6	1975.0
7.5°	2998.5	2958.1	2909.7	2847.6	2771.7	2683.0	2578.4	2460.1	2322.1	2165.3	1994.7
5°	2997.5	2959.0	2915.7	2855.5	2779.6	2691.8	2589.3	2472.9	2335.9	2179.1	2009.5
2.5°	2994.5	2960.0	2919.6	2861.4	2788.5	2701.7	2600.1	2487.7	2350.7	2190.9	2021.3
0°	3002.4	2972.8	2921.6	2859.5	2790.4	2701.7	2599.1	2489.7	2352.6	2189.9	2020.4





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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°	24.7	23.7	23.7	22.7	21.7	20.7	18.7	17.7	15.8	12.8	9.9
85°	53.2	50.3	47.3	45.4	43.4	41.4	38.5	35.5	31.6	25.6	19.7
82.5°	93.7	87.8	81.8	74.9	69.0	63.1	58.2	53.2	47.3	38.5	29.6
80°	134.1	125.2	116.4	106.5	97.6	87.8	78.9	71.0	63.1	51.3	39.4
77.5°	174.5	162.7	149.9	138.0	125.2	112.4	99.6	88.7	76.9	63.1	49.3
75°	212.0	198.2	186.4	169.6	153.8	137.1	120.3	105.5	90.7	74.0	59.2
72.5°	249.5	231.7	215.0	199.2	181.4	160.7	142.0	123.3	104.5	84.8	67.0
70°	286.9	265.2	244.5	225.8	206.1	185.4	162.7	141.0	118.3	94.7	74.0
67.5°	325.4	300.7	277.1	253.4	230.7	207.1	183.4	158.7	132.1	104.5	81.8
65°	367.8	337.2	308.6	282.0	255.4	229.7	203.1	176.5	146.9	115.4	88.7
62.5°	410.2	376.7	343.1	309.6	280.0	251.4	222.8	193.3	160.7	127.2	95.6
60°	455.5	417.1	378.6	341.2	304.7	273.1	241.6	210.0	175.5	138.0	102.5
57.5°	505.8	459.5	416.1	373.7	332.3	294.8	260.3	226.8	188.3	148.9	110.4
55°	563.0	505.8	454.6	407.2	361.9	316.5	279.0	244.5	203.1	159.7	119.3
52.5°	623.2	557.1	495.0	441.7	393.4	342.1	296.8	258.3	217.9	170.6	127.2
50°	693.2	609.4	540.3	475.3	421.0	367.8	315.5	274.1	232.7	183.4	135.1
47.5°	765.2	672.5	585.7	514.7	450.6	392.4	337.2	287.9	246.5	195.2	143.0
45°	849.0	732.6	637.0	553.2	479.2	418.1	358.9	302.7	258.3	207.1	150.9
42.5°	929.8	803.6	690.2	595.6	511.7	442.7	378.6	318.5	270.2	218.9	157.8
40°	1025.5	874.6	741.5	636.0	544.3	466.4	398.4	335.2	281.0	229.7	164.7
37.5°	1117.2	946.6	803.6	680.4	575.8	490.1	418.1	351.0	290.9	240.6	173.5
35°	1207.9	1026.4	862.8	721.8	608.4	516.7	437.8	365.8	300.7	249.5	181.4
32.5°	1294.6	1101.4	922.9	768.1	643.9	541.3	455.5	379.6	310.6	257.4	189.3
30°	1375.5	1172.4	982.1	815.4	676.4	564.0	472.3	393.4	322.4	264.3	197.2
27.5°	1449.4	1241.4	1041.2	859.8	707.0	584.7	490.1	406.2	332.3	271.2	204.1
25°	1516.5	1303.5	1095.5	900.2	734.6	607.4	506.8	419.1	341.2	277.1	210.0
22.5°	1579.6	1360.7	1144.8	940.7	768.1	630.1	522.6	430.9	350.0	283.0	215.9
20°	1634.8	1413.0	1192.1	981.1	797.7	650.8	536.4	441.7	357.9	286.9	221.9
17.5°	1679.2	1459.3	1234.5	1016.6	823.3	668.5	548.2	451.6	364.8	291.9	225.8
15°	1718.6	1498.7	1270.0	1047.2	846.0	683.3	559.1	459.5	370.7	294.8	230.7
12.5°	1752.2	1532.3	1300.6	1073.8	865.7	696.1	567.9	465.4	375.7	297.8	233.7
10°	1779.8	1558.9	1326.2	1094.5	881.5	706.0	574.8	471.3	379.6	300.7	236.6
7.5°	1800.5	1578.6	1344.9	1112.2	894.3	712.9	580.8	475.3	383.6	302.7	241.6
5°	1816.2	1595.4	1359.7	1124.1	904.2	722.8	587.7	480.2	387.5	304.7	241.6
2.5°	1828.1	1609.2	1371.6	1133.9	912.1	720.8	587.7	479.2	387.5	304.7	240.6
0°	1826.1	1610.2	1370.6	1133.9	912.1	718.8	587.7	478.2	387.5	304.7	240.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.9	4.9	2.0	0.0
85°	14.8	9.9	4.9	0.0
82.5°	21.7	13.8	6.9	0.0
80°	28.6	18.7	8.9	0.0
77.5°	36.5	23.7	11.8	0.0
75°	43.4	27.6	13.8	0.0
72.5°	50.3	32.5	15.8	0.0
70°	56.2	36.5	17.7	0.0
67.5°	62.1	41.4	20.7	0.0
65°	67.0	45.4	22.7	0.0
62.5°	71.0	50.3	24.7	0.0
60°	75.9	54.2	26.6	0.0
57.5°	79.9	57.2	28.6	0.0
55°	83.8	59.2	30.6	0.0
52.5°	87.8	62.1	32.5	0.0
50°	91.7	65.1	34.5	0.0
47.5°	95.6	67.0	35.5	0.0
45°	101.6	70.0	37.5	0.0
42.5°	106.5	72.0	39.4	0.0
40°	111.4	74.0	40.4	0.0
37.5°	116.4	75.9	42.4	0.0
35°	121.3	77.9	43.4	0.0
32.5°	125.2	79.9	44.4	0.0
30°	129.2	81.8	45.4	0.0
27.5°	133.1	82.8	46.3	0.0
25°	136.1	84.8	47.3	0.0
22.5°	139.0	85.8	48.3	0.0
20°	141.0	86.8	49.3	0.0
17.5°	144.0	87.8	50.3	0.0
15°	144.9	88.7	52.3	0.0
12.5°	146.9	89.7	52.3	0.0
10°	147.9	90.7	52.3	0.0
7.5°	149.9	90.7	52.3	0.0
5°	148.9	90.7	52.3	0.0
2.5°	148.9	90.7	52.3	0.0
0°	147.9	90.7	52.3	0.0

(END OF REPORT)