

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: P628416

Luminaire Tested: **IFLD-S-SA3A-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628416  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8964.6 lumens	Max Intensity:	2922.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

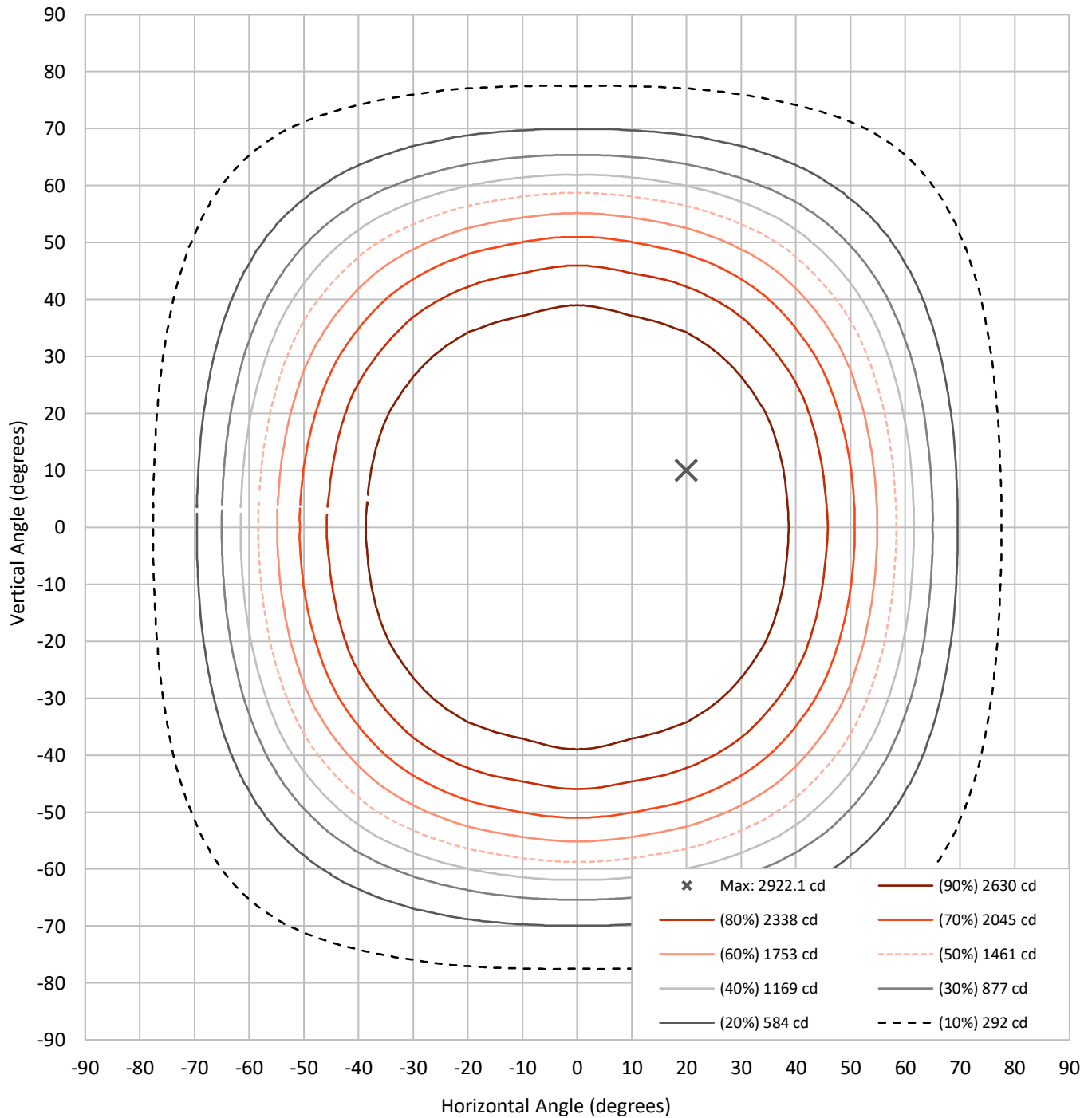
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5500.9 lumens	Field Lumens:	6594.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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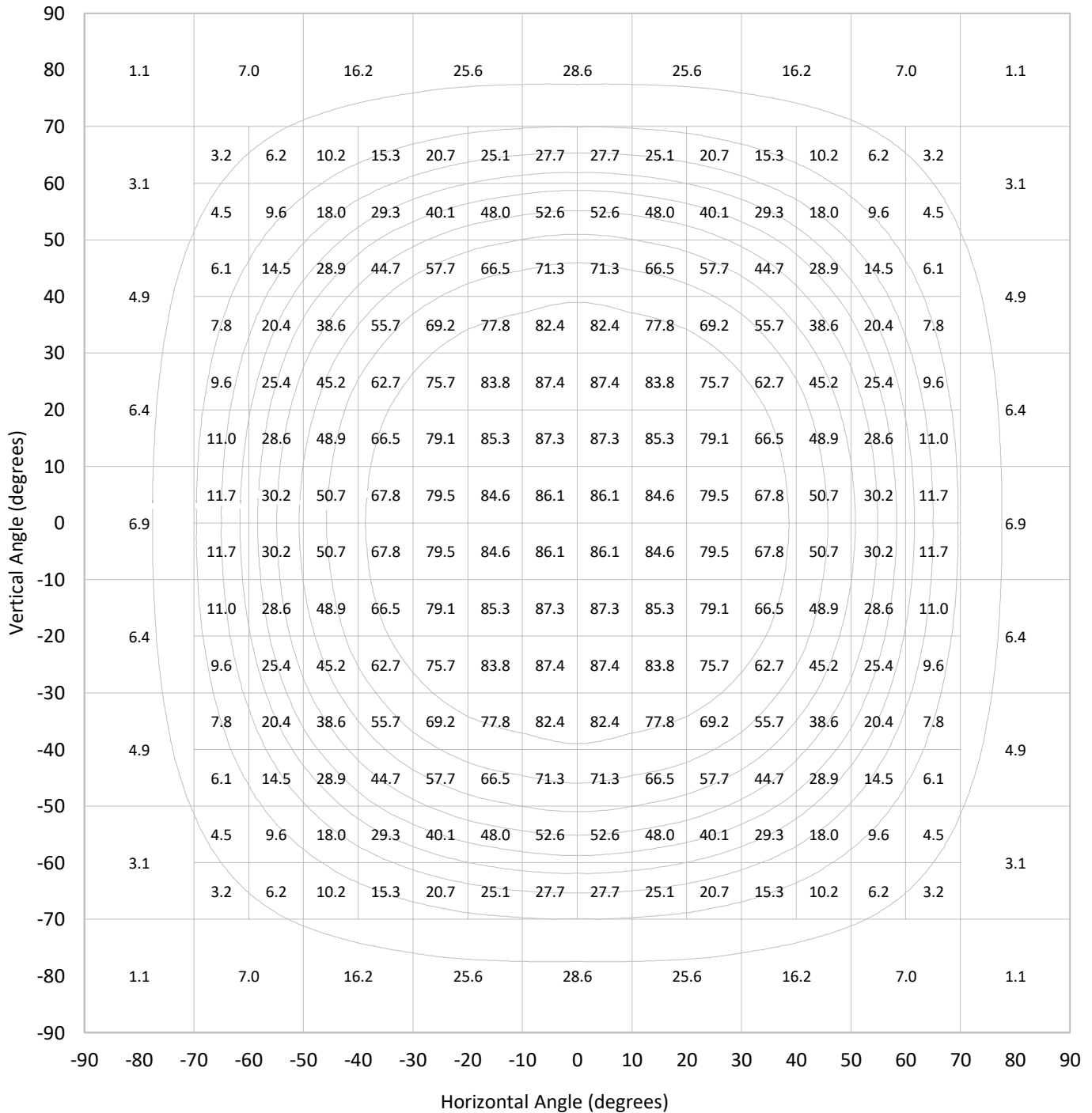
### Iso-Candela Plot





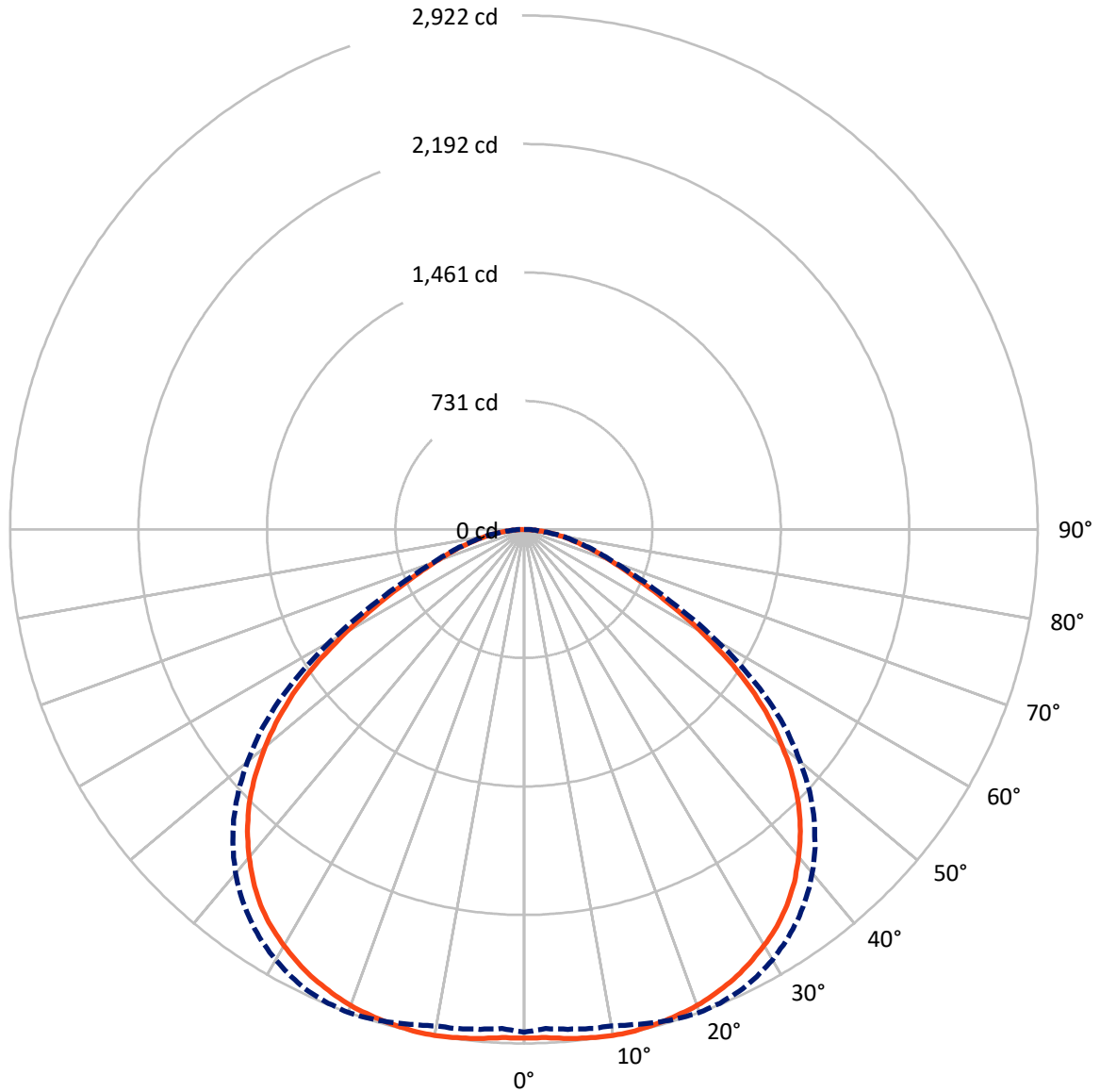
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### Lumen Table



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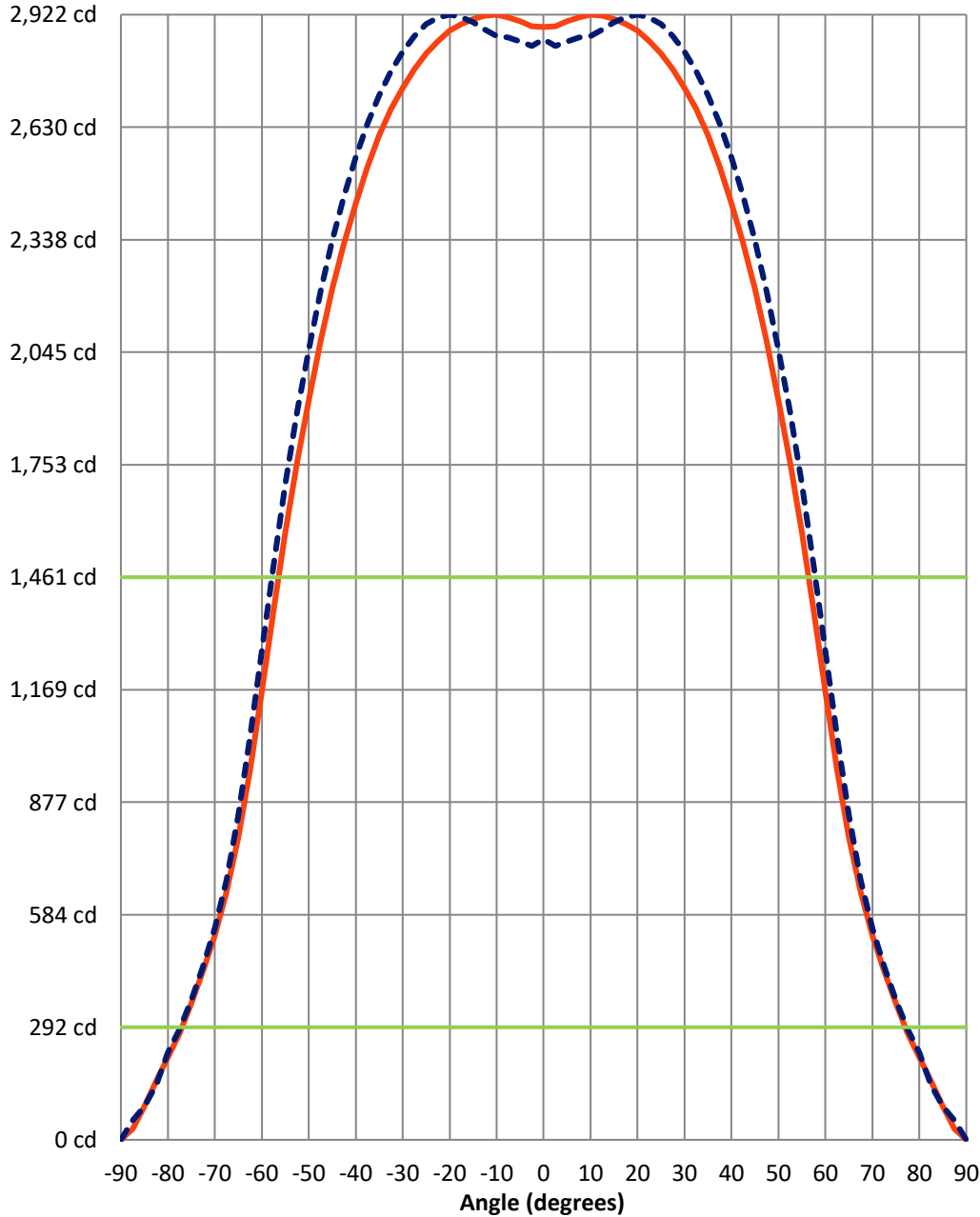
### Luminous Intensity Polar Plot



— 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: 5500.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 6594.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2370  
 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°	23.6	25.5	26.4	27.4	28.3	29.2	30.2	29.2	28.3	28.3	27.4
85°	63.2	65.1	66.0	72.6	79.2	83.0	87.7	86.8	86.8	85.8	84.9
82.5°	126.4	132.1	136.8	143.4	147.1	152.8	156.6	153.7	151.9	148.1	145.3
80°	224.5	226.4	227.3	228.3	223.5	222.6	220.7	217.9	214.1	209.4	204.7
77.5°	285.8	287.7	289.6	287.7	286.7	285.8	283.0	280.1	276.4	272.6	266.9
75°	378.2	378.2	378.2	375.4	373.5	370.7	366.0	361.3	354.7	347.1	338.6
72.5°	476.3	475.4	474.4	468.8	464.1	458.4	451.8	446.1	438.6	430.1	418.8
70°	579.1	581.0	582.0	574.4	568.8	561.2	552.7	542.4	531.0	518.8	502.7
67.5°	720.6	718.7	716.8	706.5	698.9	688.6	676.3	661.2	644.2	625.4	602.7
65°	896.1	898.9	893.2	882.9	868.7	851.7	832.9	811.2	785.7	757.4	725.3
62.5°	1108.3	1113.0	1106.4	1093.2	1075.3	1052.6	1026.2	995.1	960.2	920.6	881.0
60°	1349.8	1348.8	1336.5	1318.6	1295.0	1266.7	1237.5	1203.6	1163.9	1117.7	1069.6
57.5°	1571.4	1569.5	1554.4	1536.5	1512.9	1482.7	1451.6	1415.8	1374.3	1325.2	1269.6
55°	1770.4	1768.5	1753.5	1734.6	1710.1	1679.9	1651.6	1617.6	1577.1	1525.2	1465.8
52.5°	1946.8	1947.8	1934.5	1913.8	1887.4	1858.1	1830.8	1796.8	1758.2	1706.3	1648.8
50°	2109.0	2108.1	2094.0	2075.1	2050.6	2022.3	1994.9	1961.0	1920.4	1870.4	1814.8
47.5°	2260.0	2258.1	2242.0	2221.3	2195.8	2171.3	2145.8	2115.6	2073.2	2023.2	1967.6
45°	2386.4	2382.6	2366.5	2346.7	2322.2	2300.5	2277.9	2255.2	2210.0	2163.8	2110.9
42.5°	2494.8	2493.9	2477.8	2458.0	2433.5	2414.7	2393.9	2365.6	2327.9	2285.4	2233.6
40°	2598.6	2591.0	2575.0	2556.1	2533.5	2517.5	2496.7	2468.4	2431.6	2390.1	2340.1
37.5°	2675.9	2676.9	2659.9	2639.1	2619.3	2604.2	2585.4	2559.0	2526.9	2486.3	2436.3
35°	2749.5	2744.8	2730.6	2712.7	2694.8	2677.8	2658.0	2635.4	2609.0	2571.2	2524.1
32.5°	2797.6	2804.2	2787.2	2768.4	2758.0	2744.8	2724.0	2700.4	2676.9	2639.1	2596.7
30°	2850.4	2844.8	2831.6	2815.5	2808.0	2799.5	2781.6	2758.9	2731.6	2697.6	2658.0
27.5°	2887.2	2884.4	2868.3	2853.2	2849.5	2841.9	2827.8	2808.0	2780.6	2747.6	2710.8
25°	2903.2	2905.1	2890.0	2881.5	2881.5	2876.8	2865.5	2848.5	2821.2	2791.0	2755.2
22.5°	2910.8	2908.9	2898.5	2896.6	2901.4	2897.6	2892.9	2877.8	2853.2	2828.7	2798.5
20°	2915.5	2902.3	2892.9	2900.4	2906.1	2905.1	2901.4	2891.9	2880.6	2859.9	2833.4
17.5°	2905.1	2896.6	2885.3	2896.6	2908.9	2909.8	2906.1	2900.4	2897.6	2884.4	2860.8
15°	2879.7	2873.1	2874.9	2886.3	2900.4	2905.1	2908.0	2914.6	2910.8	2900.4	2879.7
12.5°	2862.7	2854.2	2862.7	2874.0	2881.5	2884.4	2907.0	2919.3	2919.3	2909.8	2896.6
10°	2858.0	2841.0	2852.3	2862.7	2866.5	2883.4	2902.3	2915.5	2922.1	2914.6	2897.6
7.5°	2848.5	2837.2	2841.9	2846.6	2868.3	2880.6	2891.0	2905.1	2914.6	2913.6	2898.5
5°	2843.8	2829.7	2831.6	2851.4	2866.5	2874.9	2878.7	2891.0	2905.1	2908.0	2896.6
2.5°	2831.6	2825.0	2839.1	2841.0	2852.3	2858.9	2862.7	2874.0	2891.9	2898.5	2893.8
0°	2825.0	2815.5	2806.1	2813.6	2832.5	2846.6	2852.3	2869.3	2890.0	2896.6	2886.3



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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°	26.4	25.5	24.5	23.6	24.5	24.5	24.5	23.6	24.5	23.6	23.6
85°	82.1	78.3	75.5	71.7	67.9	65.1	61.3	57.5	56.6	55.7	53.8
82.5°	141.5	136.8	132.1	126.4	120.7	114.1	107.5	100.0	98.1	96.2	93.4
80°	199.0	192.4	185.8	179.2	173.6	167.0	159.4	150.9	145.3	140.5	134.9
77.5°	259.4	250.0	240.5	229.2	222.6	216.0	208.5	200.0	191.5	183.9	175.4
75°	328.2	317.9	308.4	297.1	284.9	272.6	260.3	249.0	236.7	225.4	214.1
72.5°	404.6	389.6	374.5	360.3	345.2	330.1	314.1	299.0	283.9	268.8	252.8
70°	484.8	466.0	447.1	428.2	408.4	388.6	369.7	350.9	332.0	312.2	294.3
67.5°	579.1	557.4	532.9	506.5	477.3	451.8	427.3	404.6	382.0	359.4	336.7
65°	697.0	666.9	633.8	598.0	564.0	530.1	494.2	460.3	433.9	407.5	382.0
62.5°	842.3	799.9	753.6	707.4	665.9	621.6	580.1	535.8	494.2	456.5	425.4
60°	1015.9	958.3	901.7	842.3	784.8	724.4	671.6	616.9	565.0	518.8	473.5
57.5°	1207.3	1140.4	1072.4	999.8	921.5	850.8	779.1	707.4	646.1	584.8	533.9
55°	1401.6	1330.9	1254.5	1172.4	1086.6	996.0	898.9	818.7	734.8	663.1	597.1
52.5°	1586.5	1512.9	1433.7	1358.2	1255.4	1151.7	1045.1	939.4	841.4	749.9	669.7
50°	1751.6	1679.9	1603.5	1515.8	1420.5	1310.1	1191.3	1072.4	956.4	848.9	748.9
47.5°	1902.5	1832.7	1756.3	1668.6	1581.8	1459.2	1339.4	1208.3	1079.0	955.5	838.5
45°	2044.0	1973.2	1894.0	1810.0	1710.1	1600.6	1477.1	1345.0	1206.4	1067.7	932.8
42.5°	2172.2	2101.5	2021.3	1934.5	1835.5	1727.0	1607.3	1474.3	1334.7	1183.7	1035.7
40°	2284.5	2215.6	2138.3	2047.7	1955.3	1841.2	1723.3	1596.9	1452.6	1300.7	1137.5
37.5°	2382.6	2318.4	2242.0	2152.4	2054.3	1952.5	1830.8	1704.4	1574.2	1409.2	1242.2
35°	2469.4	2409.9	2331.6	2246.8	2150.5	2043.0	1928.9	1805.3	1664.8	1510.1	1347.9
32.5°	2544.8	2484.4	2412.8	2327.9	2234.5	2133.6	2016.6	1892.1	1759.1	1601.6	1425.2
30°	2609.0	2550.5	2482.6	2402.4	2312.8	2212.8	2098.7	1973.2	1837.4	1680.8	1506.3
27.5°	2664.6	2609.0	2542.9	2468.4	2382.6	2286.4	2171.3	2044.9	1906.3	1755.3	1580.8
25°	2712.7	2658.9	2597.6	2526.9	2442.0	2347.7	2239.2	2107.2	1968.5	1816.6	1644.0
22.5°	2756.1	2704.2	2642.9	2574.1	2496.7	2402.4	2293.0	2161.9	2021.3	1871.4	1701.6
20°	2794.8	2746.7	2686.3	2615.6	2538.2	2442.9	2334.5	2210.0	2068.5	1921.3	1753.5
17.5°	2825.9	2783.5	2723.1	2648.6	2571.2	2478.8	2373.1	2259.0	2109.0	1963.8	1796.8
15°	2847.6	2806.1	2751.4	2675.9	2600.5	2509.0	2403.3	2285.4	2145.8	1997.7	1832.7
12.5°	2862.7	2818.3	2767.4	2697.6	2622.2	2531.6	2428.8	2312.8	2177.0	2027.9	1863.8
10°	2866.5	2825.9	2775.0	2712.7	2639.1	2551.4	2450.5	2335.4	2202.4	2051.5	1889.3
7.5°	2868.3	2829.7	2783.5	2724.0	2651.4	2566.5	2466.5	2353.3	2221.3	2071.3	1908.1
5°	2867.4	2830.6	2789.1	2731.6	2658.9	2575.0	2476.9	2365.6	2234.5	2084.5	1922.3
2.5°	2864.6	2831.6	2792.9	2737.2	2667.4	2584.4	2487.3	2379.8	2248.6	2095.8	1933.6
0°	2872.1	2843.8	2794.8	2735.3	2669.3	2584.4	2486.3	2381.6	2250.5	2094.9	1932.7





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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°	23.6	22.6	22.6	21.7	20.8	19.8	17.9	17.0	15.1	12.3	9.4
85°	50.9	48.1	45.3	43.4	41.5	39.6	36.8	34.0	30.2	24.5	18.9
82.5°	89.6	83.9	78.3	71.7	66.0	60.4	55.7	50.9	45.3	36.8	28.3
80°	128.3	119.8	111.3	101.9	93.4	83.9	75.5	67.9	60.4	49.0	37.7
77.5°	167.0	155.6	143.4	132.1	119.8	107.5	95.3	84.9	73.6	60.4	47.2
75°	202.8	189.6	178.3	162.2	147.1	131.1	115.1	100.9	86.8	70.7	56.6
72.5°	238.6	221.7	205.6	190.5	173.6	153.7	135.8	117.9	100.0	81.1	64.1
70°	274.5	253.7	233.9	216.0	197.1	177.3	155.6	134.9	113.2	90.5	70.7
67.5°	311.3	287.7	265.0	242.4	220.7	198.1	175.4	151.9	126.4	100.0	78.3
65°	351.8	322.6	295.2	269.8	244.3	219.8	194.3	168.8	140.5	110.4	84.9
62.5°	392.4	360.3	328.2	296.2	267.9	240.5	213.2	184.9	153.7	121.7	91.5
60°	435.8	399.0	362.2	326.4	291.5	261.3	231.1	200.9	167.9	132.1	98.1
57.5°	483.9	439.5	398.0	357.5	317.9	282.0	249.0	216.9	180.2	142.4	105.6
55°	538.6	483.9	434.8	389.6	346.2	302.8	266.9	233.9	194.3	152.8	114.1
52.5°	596.1	532.9	473.5	422.6	376.3	327.3	283.9	247.1	208.5	163.2	121.7
50°	663.1	582.9	516.9	454.6	402.8	351.8	301.8	262.2	222.6	175.4	129.2
47.5°	731.9	643.3	560.3	492.4	431.1	375.4	322.6	275.4	235.8	186.8	136.8
45°	812.1	700.8	609.3	529.1	458.4	399.9	343.3	289.6	247.1	198.1	144.3
42.5°	889.5	768.7	660.3	569.7	489.5	423.5	362.2	304.7	258.4	209.4	150.9
40°	981.0	836.6	709.3	608.4	520.7	446.1	381.1	320.7	268.8	219.8	157.5
37.5°	1068.7	905.5	768.7	650.8	550.8	468.8	399.9	335.8	278.3	230.1	166.0
35°	1155.4	981.9	825.3	690.4	582.0	494.2	418.8	349.9	287.7	238.6	173.6
32.5°	1238.5	1053.6	882.9	734.8	615.9	517.8	435.8	363.1	297.1	246.2	181.1
30°	1315.8	1121.5	939.4	780.0	647.1	539.5	451.8	376.3	308.4	252.8	188.6
27.5°	1386.5	1187.5	996.0	822.5	676.3	559.3	468.8	388.6	317.9	259.4	195.2
25°	1450.7	1246.9	1047.9	861.2	702.7	581.0	484.8	400.9	326.4	265.0	200.9
22.5°	1511.0	1301.6	1095.1	899.8	734.8	602.7	499.9	412.2	334.8	270.7	206.6
20°	1563.9	1351.6	1140.4	938.5	763.1	622.5	513.1	422.6	342.4	274.5	212.2
17.5°	1606.3	1396.0	1180.9	972.5	787.6	639.5	524.4	432.0	349.0	279.2	216.0
15°	1644.0	1433.7	1214.9	1001.7	809.3	653.7	534.8	439.5	354.7	282.0	220.7
12.5°	1676.1	1465.8	1244.1	1027.2	828.1	665.9	543.3	445.2	359.4	284.9	223.5
10°	1702.5	1491.2	1268.6	1047.0	843.2	675.3	549.9	450.9	363.1	287.7	226.4
7.5°	1722.3	1510.1	1286.6	1064.0	855.5	682.0	555.6	454.6	366.9	289.6	231.1
5°	1737.4	1526.1	1300.7	1075.3	864.9	691.4	562.2	459.3	370.7	291.5	231.1
2.5°	1748.7	1539.3	1312.0	1084.7	872.5	689.5	562.2	458.4	370.7	291.5	230.1
0°	1746.8	1540.3	1311.1	1084.7	872.5	687.6	562.2	457.5	370.7	291.5	230.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.6	4.7	1.9	0.0
85°	14.1	9.4	4.7	0.0
82.5°	20.8	13.2	6.6	0.0
80°	27.4	17.9	8.5	0.0
77.5°	34.9	22.6	11.3	0.0
75°	41.5	26.4	13.2	0.0
72.5°	48.1	31.1	15.1	0.0
70°	53.8	34.9	17.0	0.0
67.5°	59.4	39.6	19.8	0.0
65°	64.1	43.4	21.7	0.0
62.5°	67.9	48.1	23.6	0.0
60°	72.6	51.9	25.5	0.0
57.5°	76.4	54.7	27.4	0.0
55°	80.2	56.6	29.2	0.0
52.5°	83.9	59.4	31.1	0.0
50°	87.7	62.3	33.0	0.0
47.5°	91.5	64.1	34.0	0.0
45°	97.2	67.0	35.8	0.0
42.5°	101.9	68.9	37.7	0.0
40°	106.6	70.7	38.7	0.0
37.5°	111.3	72.6	40.6	0.0
35°	116.0	74.5	41.5	0.0
32.5°	119.8	76.4	42.4	0.0
30°	123.6	78.3	43.4	0.0
27.5°	127.3	79.2	44.3	0.0
25°	130.2	81.1	45.3	0.0
22.5°	133.0	82.1	46.2	0.0
20°	134.9	83.0	47.2	0.0
17.5°	137.7	83.9	48.1	0.0
15°	138.7	84.9	50.0	0.0
12.5°	140.5	85.8	50.0	0.0
10°	141.5	86.8	50.0	0.0
7.5°	143.4	86.8	50.0	0.0
5°	142.4	86.8	50.0	0.0
2.5°	142.4	86.8	50.0	0.0
0°	141.5	86.8	50.0	0.0

(END OF REPORT)