

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: P628499

Luminaire Tested: **IFLD-S-SA2B-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8491.2 lumens	Max Intensity:	2767.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	103.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

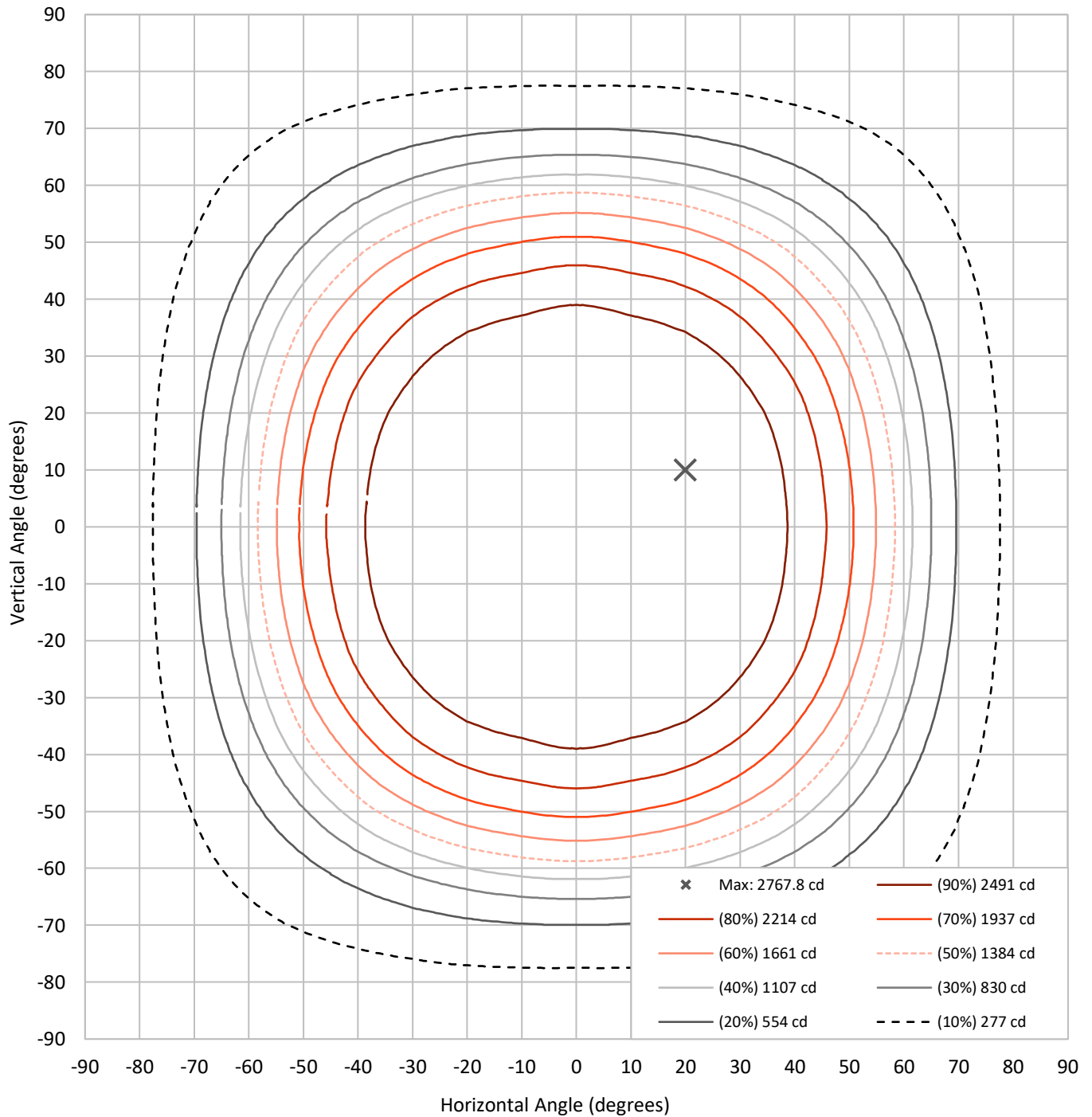
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5210.4 lumens	Field Lumens:	6246.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 82.4
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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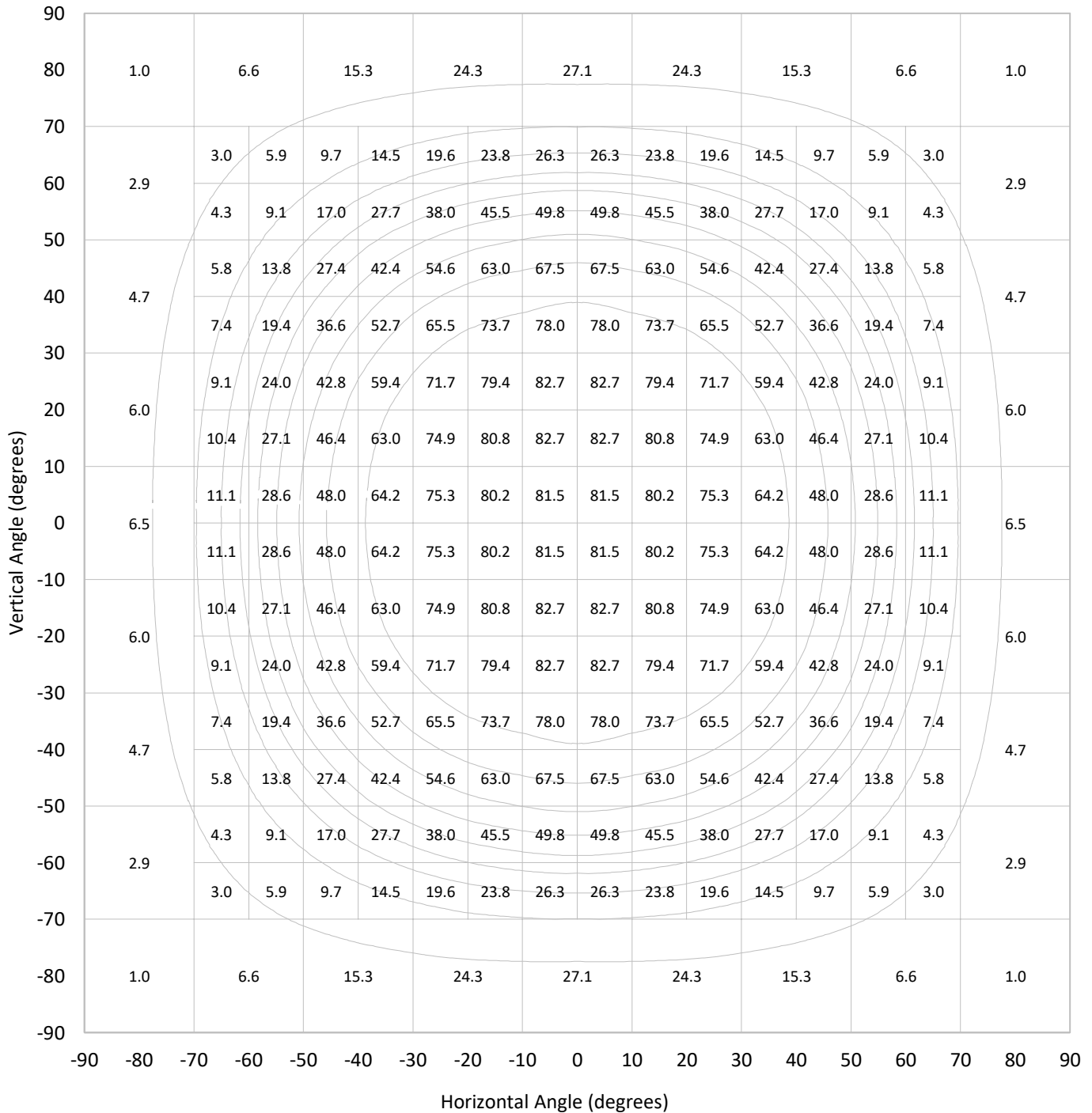
Iso-Candela Plot





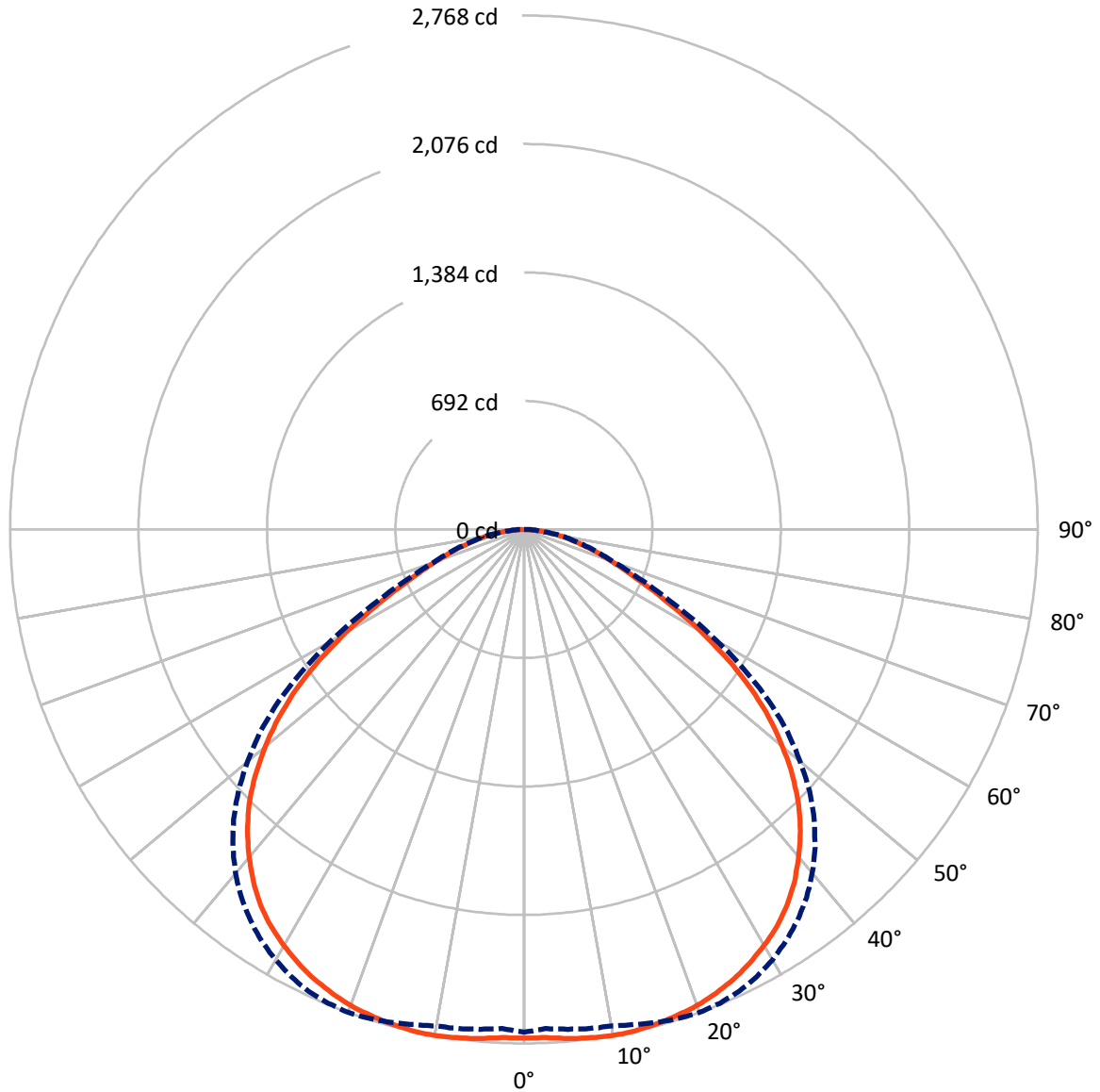
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Lumen Table



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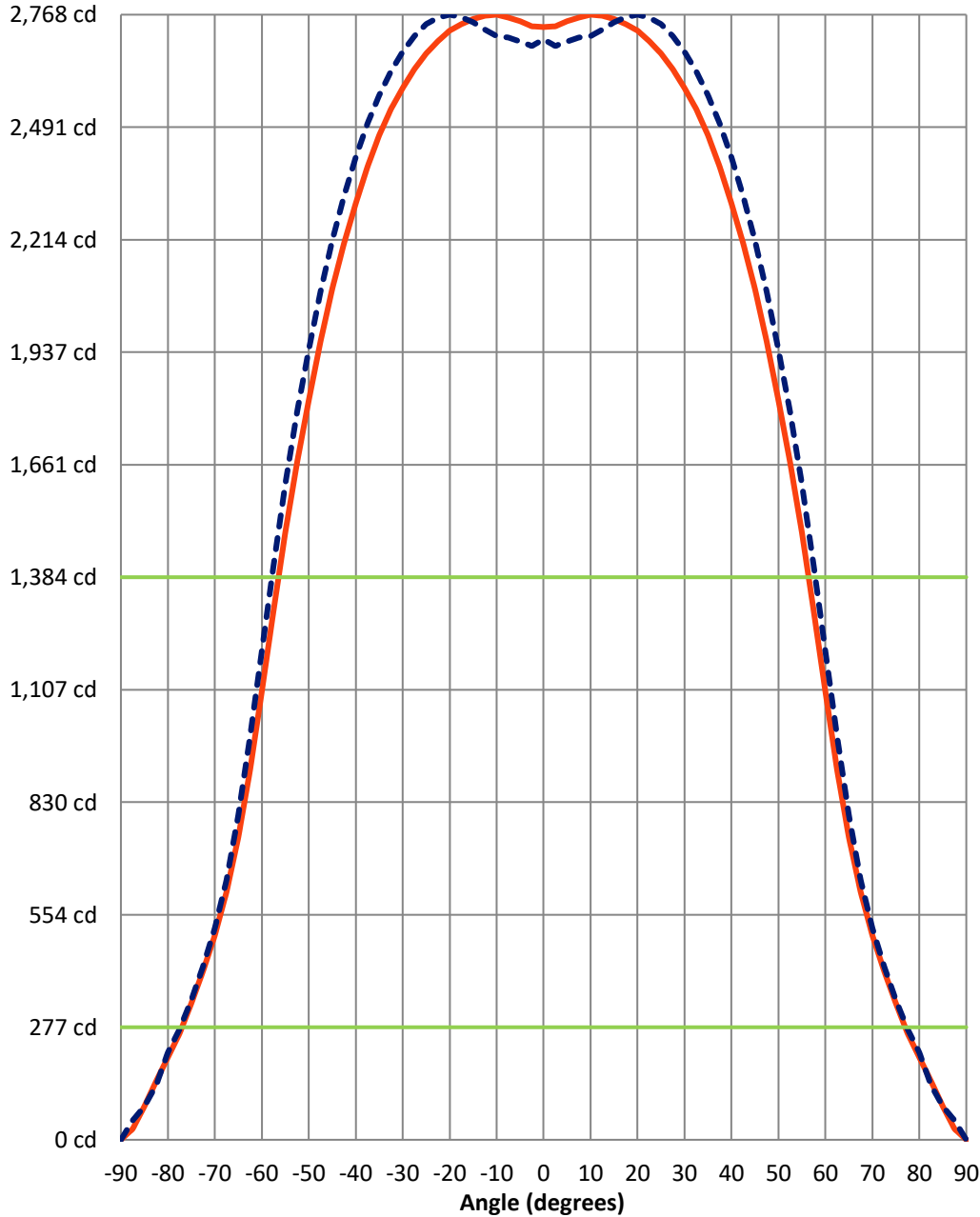
Luminous Intensity Polar Plot



— 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: 5210.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 6246.3
 Efficiency: 73.6%

Spill:
 Lumens: 2244.8
 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°	22.3	24.1	25.0	25.9	26.8	27.7	28.6	27.7	26.8	26.8	25.9
85°	59.9	61.6	62.5	68.8	75.0	78.6	83.1	82.2	82.2	81.3	80.4
82.5°	119.7	125.1	129.5	135.8	139.4	144.7	148.3	145.6	143.8	140.3	137.6
80°	212.6	214.4	215.3	216.2	211.7	210.8	209.1	206.4	202.8	198.3	193.9
77.5°	270.7	272.5	274.3	272.5	271.6	270.7	268.0	265.3	261.8	258.2	252.8
75°	358.3	358.3	358.3	355.6	353.8	351.1	346.6	342.2	335.9	328.8	320.7
72.5°	451.2	450.3	449.4	444.0	439.6	434.2	427.9	422.6	415.4	407.4	396.7
70°	548.6	550.3	551.2	544.1	538.7	531.6	523.5	513.7	503.0	491.4	476.2
67.5°	682.6	680.8	679.0	669.2	662.0	652.2	640.6	626.3	610.2	592.3	570.9
65°	848.7	851.4	846.1	836.2	822.8	806.7	788.9	768.3	744.2	717.4	687.0
62.5°	1049.8	1054.2	1048.0	1035.5	1018.5	997.0	972.0	942.5	909.5	872.0	834.4
60°	1278.5	1277.6	1266.0	1249.0	1226.6	1199.8	1172.1	1140.0	1102.5	1058.7	1013.1
57.5°	1488.4	1486.6	1472.3	1455.4	1433.0	1404.4	1375.0	1341.0	1301.7	1255.2	1202.5
55°	1676.9	1675.1	1660.8	1643.0	1619.7	1591.2	1564.4	1532.2	1493.8	1444.6	1388.4
52.5°	1844.0	1844.9	1832.4	1812.7	1787.7	1760.0	1734.1	1701.9	1665.3	1616.2	1561.7
50°	1997.7	1996.8	1983.4	1965.5	1942.3	1915.5	1889.6	1857.4	1819.0	1771.6	1718.9
47.5°	2140.6	2138.8	2123.6	2104.0	2079.9	2056.6	2032.5	2003.9	1963.7	1916.4	1863.6
45°	2260.3	2256.7	2241.6	2222.8	2199.6	2179.0	2157.6	2136.1	2093.3	2049.5	1999.4
42.5°	2363.1	2362.2	2347.0	2328.2	2305.0	2287.1	2267.5	2240.7	2204.9	2164.7	2115.6
40°	2461.3	2454.2	2439.0	2421.1	2399.7	2384.5	2364.8	2338.0	2303.2	2263.9	2216.5
37.5°	2534.6	2535.5	2519.4	2499.8	2481.0	2466.7	2448.8	2423.8	2393.4	2355.0	2307.7
35°	2604.3	2599.8	2586.4	2569.4	2552.5	2536.4	2517.6	2496.2	2471.2	2435.4	2390.8
32.5°	2649.8	2656.1	2640.0	2622.1	2612.3	2599.8	2580.2	2557.8	2535.5	2499.8	2459.5
30°	2699.9	2694.5	2682.0	2666.8	2659.7	2651.6	2634.7	2613.2	2587.3	2555.1	2517.6
27.5°	2734.7	2732.0	2716.9	2702.6	2699.0	2691.8	2678.4	2659.7	2633.8	2602.5	2567.7
25°	2749.9	2751.7	2737.4	2729.4	2729.4	2724.9	2714.2	2698.1	2672.2	2643.6	2609.6
22.5°	2757.1	2755.3	2745.4	2743.7	2748.1	2744.5	2740.1	2725.8	2702.6	2679.3	2650.7
20°	2761.5	2749.0	2740.1	2747.2	2752.6	2751.7	2748.1	2739.2	2728.5	2708.8	2683.8
17.5°	2751.7	2743.7	2732.9	2743.7	2755.3	2756.2	2752.6	2747.2	2744.5	2732.0	2709.7
15°	2727.6	2721.3	2723.1	2733.8	2747.2	2751.7	2754.4	2760.6	2757.1	2747.2	2727.6
12.5°	2711.5	2703.4	2711.5	2722.2	2729.4	2732.0	2753.5	2765.1	2765.1	2756.2	2743.7
10°	2707.0	2690.9	2701.7	2711.5	2715.1	2731.1	2749.0	2761.5	2767.8	2760.6	2744.5
7.5°	2698.1	2687.4	2691.8	2696.3	2716.9	2728.5	2738.3	2751.7	2760.6	2759.7	2745.4
5°	2693.6	2680.2	2682.0	2700.8	2715.1	2723.1	2726.7	2738.3	2751.7	2754.4	2743.7
2.5°	2682.0	2675.8	2689.2	2690.9	2701.7	2707.9	2711.5	2722.2	2739.2	2745.4	2741.0
0°	2675.8	2666.8	2657.9	2665.0	2682.9	2696.3	2701.7	2717.7	2737.4	2743.7	2733.8



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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°	25.0	24.1	23.2	22.3	23.2	23.2	23.2	22.3	23.2	22.3	22.3
85°	77.7	74.2	71.5	67.9	64.3	61.6	58.1	54.5	53.6	52.7	50.9
82.5°	134.0	129.5	125.1	119.7	114.4	108.1	101.8	94.7	92.9	91.1	88.4
80°	188.5	182.3	176.0	169.7	164.4	158.1	151.0	142.9	137.6	133.1	127.8
77.5°	245.7	236.8	227.8	217.1	210.8	204.6	197.4	189.4	181.4	174.2	166.2
75°	310.9	301.1	292.1	281.4	269.8	258.2	246.6	235.9	224.2	213.5	202.8
72.5°	383.3	369.0	354.7	341.3	327.0	312.7	297.5	283.2	268.9	254.6	239.4
70°	459.2	441.3	423.5	405.6	386.8	368.1	350.2	332.3	314.5	295.7	278.7
67.5°	548.6	528.0	504.8	479.8	452.1	427.9	404.7	383.3	361.8	340.4	318.9
65°	660.2	631.6	600.4	566.4	534.3	502.1	468.1	436.0	411.0	386.0	361.8
62.5°	797.8	757.6	713.8	670.1	630.7	588.8	549.4	507.5	468.1	432.4	402.9
60°	962.2	907.7	854.1	797.8	743.3	686.1	636.1	584.3	535.2	491.4	448.5
57.5°	1143.6	1080.1	1015.8	947.0	872.9	805.9	738.0	670.1	612.0	553.9	505.7
55°	1327.6	1260.6	1188.2	1110.5	1029.2	943.4	851.4	775.5	696.0	628.1	565.5
52.5°	1502.7	1433.0	1358.0	1286.5	1189.1	1090.8	989.9	889.8	796.9	710.3	634.3
50°	1659.1	1591.2	1518.8	1435.7	1345.5	1240.9	1128.4	1015.8	905.9	804.1	709.4
47.5°	1802.0	1735.9	1663.5	1580.4	1498.2	1382.1	1268.6	1144.5	1022.1	905.0	794.2
45°	1936.0	1869.0	1794.0	1714.4	1619.7	1516.1	1399.1	1274.0	1142.7	1011.3	883.6
42.5°	2057.5	1990.5	1914.6	1832.4	1738.6	1635.8	1522.4	1396.4	1264.2	1121.2	981.0
40°	2163.8	2098.6	2025.4	1939.6	1852.0	1743.9	1632.3	1512.5	1375.8	1232.0	1077.4
37.5°	2256.7	2196.0	2123.6	2038.8	1945.8	1849.4	1734.1	1614.4	1491.1	1334.8	1176.6
35°	2338.9	2282.7	2208.5	2128.1	2037.0	1935.1	1827.0	1710.0	1576.9	1430.3	1276.7
32.5°	2410.4	2353.2	2285.3	2204.9	2116.5	2020.9	1910.1	1792.2	1666.2	1517.0	1349.9
30°	2471.2	2415.8	2351.4	2275.5	2190.6	2095.9	1987.8	1869.0	1740.4	1592.1	1426.8
27.5°	2523.9	2471.2	2408.6	2338.0	2256.7	2165.6	2056.6	1936.9	1805.6	1662.6	1497.4
25°	2569.4	2518.5	2460.4	2393.4	2313.0	2223.7	2120.9	1995.9	1864.5	1720.7	1557.2
22.5°	2610.5	2561.4	2503.3	2438.1	2364.8	2275.5	2171.9	2047.7	1914.6	1772.5	1611.7
20°	2647.2	2601.6	2544.4	2477.4	2404.2	2313.9	2211.2	2093.3	1959.2	1819.9	1660.8
17.5°	2676.6	2636.4	2579.3	2508.7	2435.4	2347.9	2247.8	2139.7	1997.7	1860.1	1701.9
15°	2697.2	2657.9	2606.1	2534.6	2463.1	2376.5	2276.4	2164.7	2032.5	1892.2	1735.9
12.5°	2711.5	2669.5	2621.3	2555.1	2483.7	2397.9	2300.5	2190.6	2062.0	1920.8	1765.4
10°	2715.1	2676.6	2628.4	2569.4	2499.8	2416.7	2321.1	2212.1	2086.1	1943.2	1789.5
7.5°	2716.9	2680.2	2636.4	2580.2	2511.4	2431.0	2336.3	2229.1	2104.0	1961.9	1807.4
5°	2716.0	2681.1	2641.8	2587.3	2518.5	2439.0	2346.1	2240.7	2116.5	1974.4	1820.8
2.5°	2713.3	2682.0	2645.4	2592.7	2526.6	2447.9	2355.9	2254.1	2129.9	1985.2	1831.5
0°	2720.4	2693.6	2647.2	2590.9	2528.3	2447.9	2355.0	2255.9	2131.7	1984.3	1830.6



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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°	22.3	21.4	21.4	20.5	19.7	18.8	17.0	16.1	14.3	11.6	8.9
85°	48.2	45.6	42.9	41.1	39.3	37.5	34.8	32.2	28.6	23.2	17.9
82.5°	84.9	79.5	74.2	67.9	62.5	57.2	52.7	48.2	42.9	34.8	26.8
80°	121.5	113.5	105.4	96.5	88.4	79.5	71.5	64.3	57.2	46.5	35.7
77.5°	158.1	147.4	135.8	125.1	113.5	101.8	90.2	80.4	69.7	57.2	44.7
75°	192.1	179.6	168.9	153.7	139.4	124.2	109.0	95.6	82.2	67.0	53.6
72.5°	226.0	210.0	194.8	180.5	164.4	145.6	128.7	111.7	94.7	76.8	60.8
70°	260.0	240.3	221.6	204.6	186.7	168.0	147.4	127.8	107.2	85.8	67.0
67.5°	294.8	272.5	251.0	229.6	209.1	187.6	166.2	143.8	119.7	94.7	74.2
65°	333.2	305.5	279.6	255.5	231.4	208.2	184.0	159.9	133.1	104.5	80.4
62.5°	371.7	341.3	310.9	280.5	253.7	227.8	201.9	175.1	145.6	115.2	86.7
60°	412.8	377.9	343.1	309.1	276.1	247.5	218.9	190.3	159.0	125.1	92.9
57.5°	458.3	416.3	377.0	338.6	301.1	267.1	235.9	205.5	170.6	134.9	100.1
55°	510.1	458.3	411.9	369.0	327.9	286.8	252.8	221.6	184.0	144.7	108.1
52.5°	564.6	504.8	448.5	400.2	356.5	310.0	268.9	234.1	197.4	154.6	115.2
50°	628.1	552.1	489.6	430.6	381.5	333.2	285.9	248.4	210.8	166.2	122.4
47.5°	693.3	609.3	530.7	466.4	408.3	355.6	305.5	260.9	223.4	176.9	129.5
45°	769.2	663.8	577.1	501.2	434.2	378.8	325.2	274.3	234.1	187.6	136.7
42.5°	842.5	728.1	625.4	539.6	463.7	401.1	343.1	288.6	244.8	198.3	142.9
40°	929.1	792.5	671.8	576.2	493.2	422.6	360.9	303.8	254.6	208.2	149.2
37.5°	1012.2	857.7	728.1	616.5	521.7	444.0	378.8	318.1	263.6	218.0	157.2
35°	1094.4	930.0	781.7	654.0	551.2	468.1	396.7	331.5	272.5	226.0	164.4
32.5°	1173.0	997.9	836.2	696.0	583.4	490.5	412.8	344.0	281.4	233.2	171.5
30°	1246.3	1062.3	889.8	738.8	612.9	511.0	427.9	356.5	292.1	239.4	178.7
27.5°	1313.3	1124.8	943.4	779.1	640.6	529.8	444.0	368.1	301.1	245.7	184.9
25°	1374.1	1181.1	992.6	815.7	665.6	550.3	459.2	379.7	309.1	251.0	190.3
22.5°	1431.2	1232.9	1037.2	852.3	696.0	570.9	473.5	390.4	317.2	256.4	195.7
20°	1481.3	1280.3	1080.1	888.9	722.8	589.6	486.0	400.2	324.3	260.0	201.0
17.5°	1521.5	1322.2	1118.5	921.1	746.0	605.7	496.7	409.2	330.6	264.4	204.6
15°	1557.2	1358.0	1150.7	948.8	766.5	619.1	506.6	416.3	335.9	267.1	209.1
12.5°	1587.6	1388.4	1178.4	972.9	784.4	630.7	514.6	421.7	340.4	269.8	211.7
10°	1612.6	1412.5	1201.6	991.7	798.7	639.7	520.9	427.0	344.0	272.5	214.4
7.5°	1631.4	1430.3	1218.6	1007.8	810.3	645.9	526.2	430.6	347.5	274.3	218.9
5°	1645.7	1445.5	1232.0	1018.5	819.3	654.9	532.5	435.1	351.1	276.1	218.9
2.5°	1656.4	1458.0	1242.7	1027.4	826.4	653.1	532.5	434.2	351.1	276.1	218.0
0°	1654.6	1458.9	1241.8	1027.4	826.4	651.3	532.5	433.3	351.1	276.1	218.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.3	4.5	1.8	0.0
85°	13.4	8.9	4.5	0.0
82.5°	19.7	12.5	6.3	0.0
80°	25.9	17.0	8.0	0.0
77.5°	33.1	21.4	10.7	0.0
75°	39.3	25.0	12.5	0.0
72.5°	45.6	29.5	14.3	0.0
70°	50.9	33.1	16.1	0.0
67.5°	56.3	37.5	18.8	0.0
65°	60.8	41.1	20.5	0.0
62.5°	64.3	45.6	22.3	0.0
60°	68.8	49.1	24.1	0.0
57.5°	72.4	51.8	25.9	0.0
55°	75.9	53.6	27.7	0.0
52.5°	79.5	56.3	29.5	0.0
50°	83.1	59.0	31.3	0.0
47.5°	86.7	60.8	32.2	0.0
45°	92.0	63.4	33.9	0.0
42.5°	96.5	65.2	35.7	0.0
40°	101.0	67.0	36.6	0.0
37.5°	105.4	68.8	38.4	0.0
35°	109.9	70.6	39.3	0.0
32.5°	113.5	72.4	40.2	0.0
30°	117.0	74.2	41.1	0.0
27.5°	120.6	75.0	42.0	0.0
25°	123.3	76.8	42.9	0.0
22.5°	126.0	77.7	43.8	0.0
20°	127.8	78.6	44.7	0.0
17.5°	130.4	79.5	45.6	0.0
15°	131.3	80.4	47.4	0.0
12.5°	133.1	81.3	47.4	0.0
10°	134.0	82.2	47.4	0.0
7.5°	135.8	82.2	47.4	0.0
5°	134.9	82.2	47.4	0.0
2.5°	134.9	82.2	47.4	0.0
0°	134.0	82.2	47.4	0.0

(END OF REPORT)