

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: P628442

Luminaire Tested: **IFLD-S-SA2C-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9361.9 lumens	Max Intensity:	3051.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

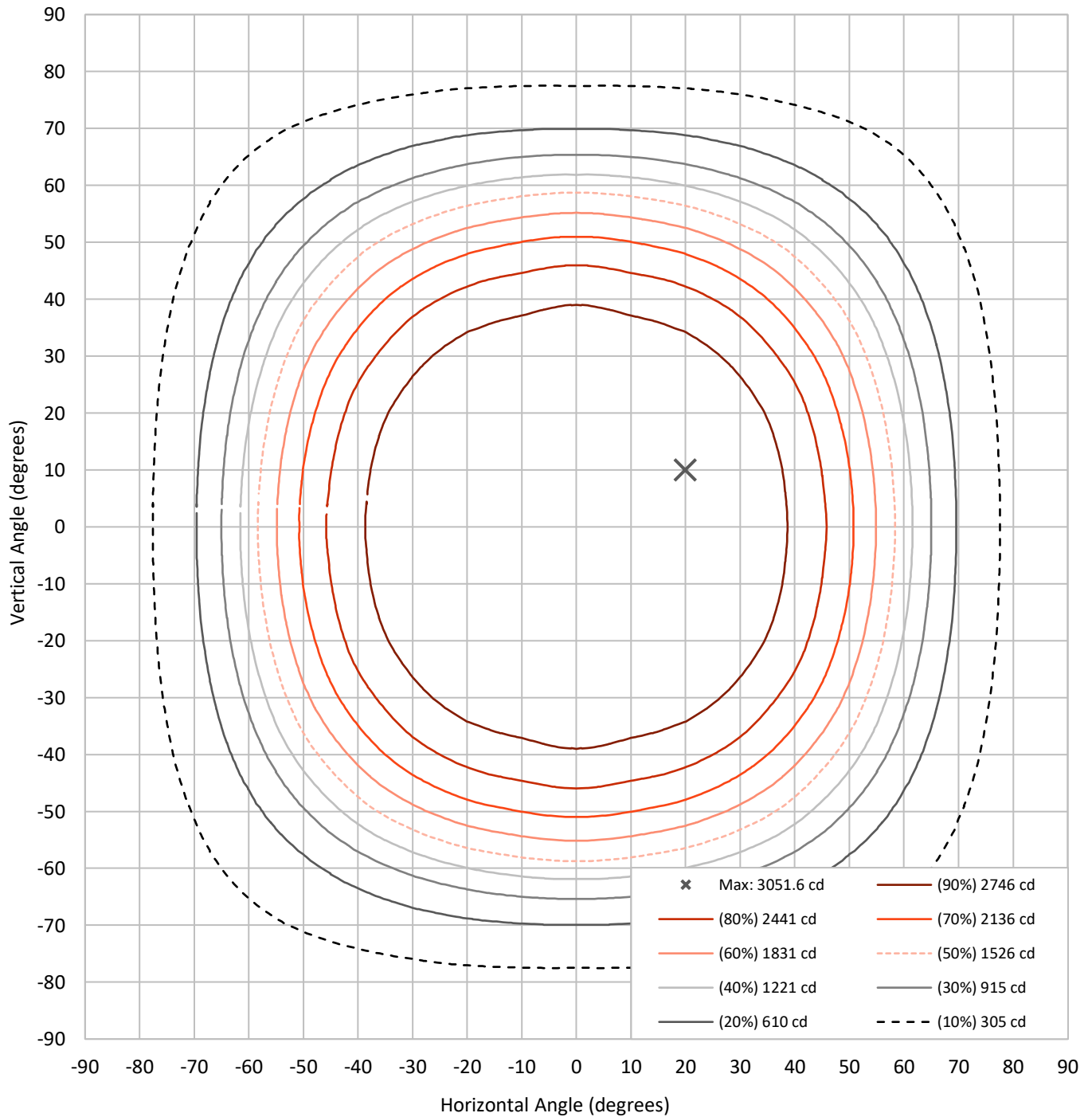
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5744.7 lumens	Field Lumens:	6886.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 108.2
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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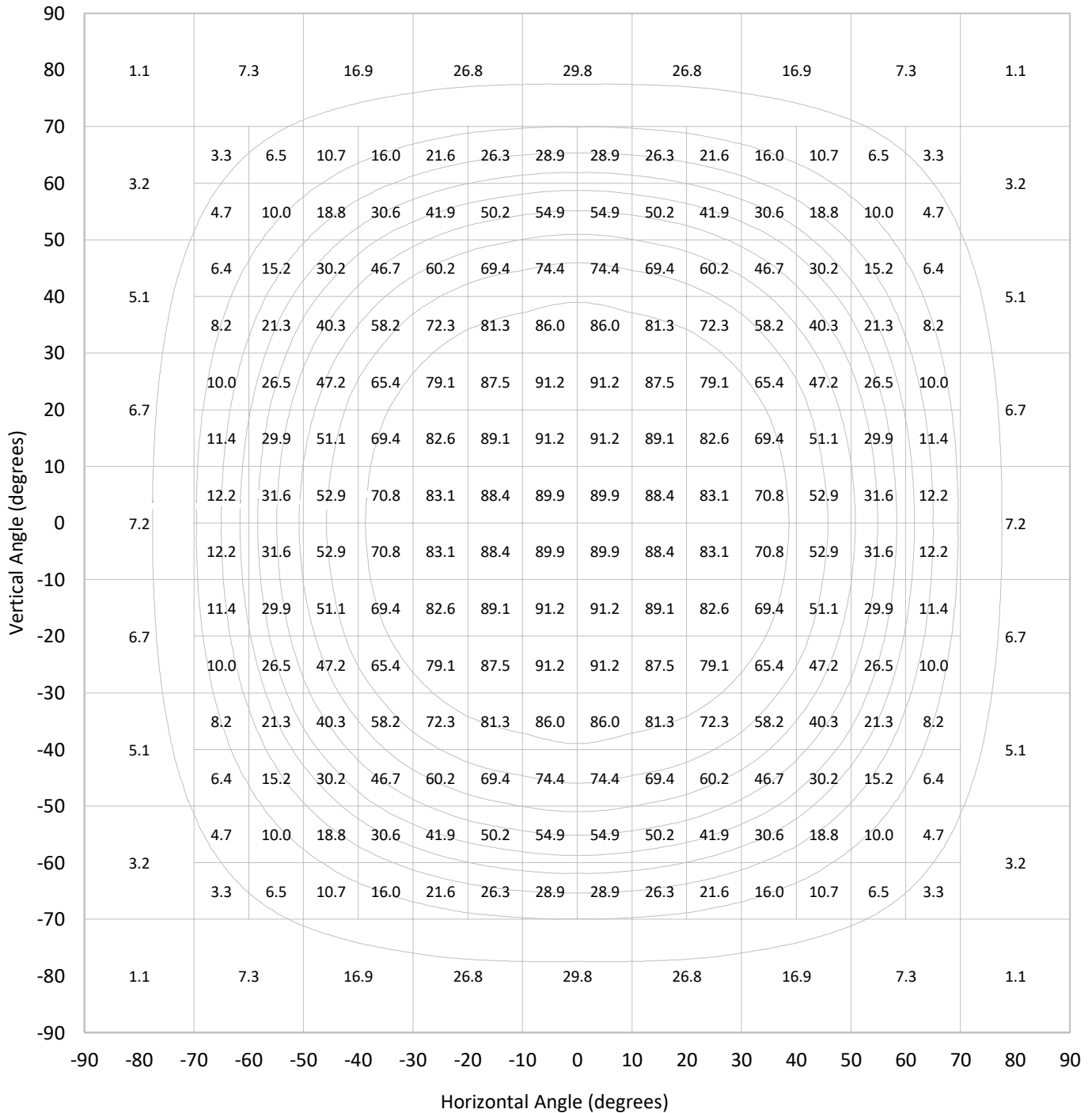
Iso-Candela Plot





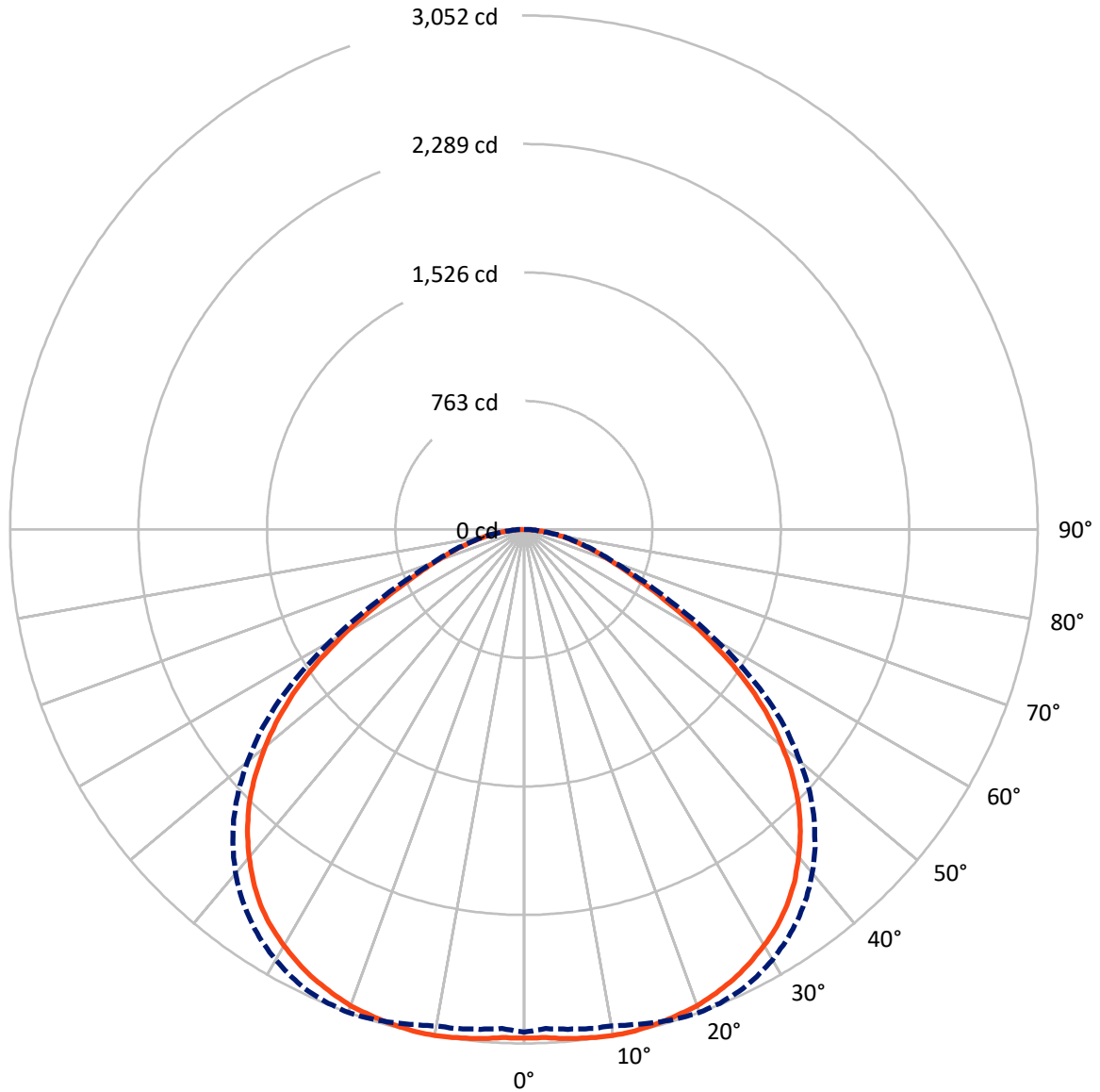
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Lumen Table



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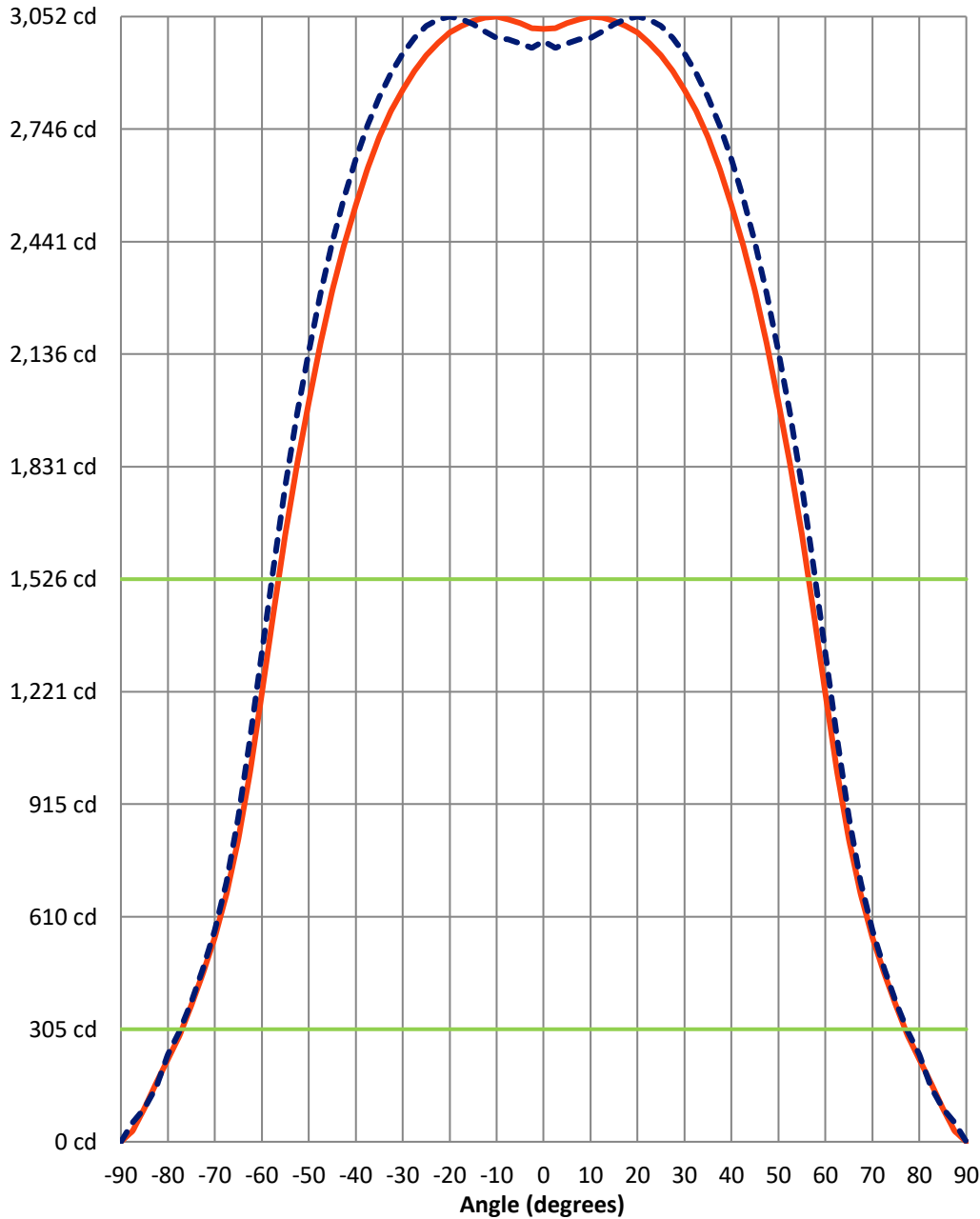
Luminous Intensity Polar Plot



— 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: 5744.7
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 6886.9
Efficiency: 73.6%

Spill:
Lumens: 2475
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°	24.6	26.6	27.6	28.6	29.6	30.5	31.5	30.5	29.6	29.6	28.6
85°	66.0	68.0	69.0	75.8	82.7	86.7	91.6	90.6	90.6	89.6	88.7
82.5°	132.0	137.9	142.8	149.7	153.7	159.6	163.5	160.6	158.6	154.6	151.7
80°	234.4	236.4	237.4	238.4	233.5	232.5	230.5	227.5	223.6	218.7	213.8
77.5°	298.5	300.4	302.4	300.4	299.4	298.5	295.5	292.6	288.6	284.7	278.8
75°	395.0	395.0	395.0	392.0	390.1	387.1	382.2	377.3	370.4	362.5	353.6
72.5°	497.4	496.5	495.5	489.6	484.6	478.7	471.8	465.9	458.0	449.2	437.4
70°	604.8	606.8	607.8	599.9	594.0	586.1	577.2	566.4	554.6	541.8	525.0
67.5°	752.6	750.6	748.6	737.8	729.9	719.1	706.3	690.5	672.8	653.1	629.4
65°	935.8	938.7	932.8	922.0	907.2	889.5	869.8	847.1	820.5	791.0	757.5
62.5°	1157.4	1162.3	1155.4	1141.6	1122.9	1099.3	1071.7	1039.2	1002.8	961.4	920.0
60°	1409.6	1408.6	1395.8	1377.1	1352.4	1322.9	1292.4	1256.9	1215.5	1167.3	1117.0
57.5°	1641.1	1639.1	1623.3	1604.6	1580.0	1548.5	1516.0	1478.5	1435.2	1384.0	1325.8
55°	1848.9	1846.9	1831.2	1811.5	1785.9	1754.3	1724.8	1689.3	1647.0	1592.8	1530.7
52.5°	2033.1	2034.1	2020.3	1998.6	1971.0	1940.5	1911.9	1876.5	1836.1	1781.9	1721.8
50°	2202.5	2201.5	2186.8	2167.1	2141.4	2111.9	2083.3	2047.9	2005.5	1953.3	1895.2
47.5°	2360.1	2358.2	2341.4	2319.7	2293.1	2267.5	2240.9	2209.4	2165.1	2112.9	2054.8
45°	2492.1	2488.2	2471.4	2450.7	2425.1	2402.5	2378.8	2355.2	2307.9	2259.7	2204.5
42.5°	2605.4	2604.4	2587.7	2567.0	2541.4	2521.7	2500.0	2470.4	2431.0	2386.7	2332.5
40°	2713.7	2705.9	2689.1	2669.4	2645.8	2629.0	2607.4	2577.8	2539.4	2496.1	2443.9
37.5°	2794.5	2795.5	2777.8	2756.1	2735.4	2719.7	2700.0	2672.4	2638.9	2596.5	2544.3
35°	2871.4	2866.4	2851.7	2832.9	2814.2	2796.5	2775.8	2752.2	2724.6	2685.2	2635.9
32.5°	2921.6	2928.5	2910.8	2891.1	2880.2	2866.4	2844.8	2820.1	2795.5	2756.1	2711.8
30°	2976.8	2970.8	2957.1	2940.3	2932.4	2923.6	2904.8	2881.2	2852.6	2817.2	2775.8
27.5°	3015.2	3012.2	2995.5	2979.7	2975.8	2967.9	2953.1	2932.4	2903.9	2869.4	2831.0
25°	3031.9	3033.9	3018.1	3009.3	3009.3	3004.3	2992.5	2974.8	2946.2	2914.7	2877.3
22.5°	3039.8	3037.8	3027.0	3025.0	3029.9	3026.0	3021.1	3005.3	2979.7	2954.1	2922.6
20°	3044.7	3030.9	3021.1	3029.0	3034.9	3033.9	3029.9	3020.1	3008.3	2986.6	2959.0
17.5°	3033.9	3025.0	3013.2	3025.0	3037.8	3038.8	3034.9	3029.0	3026.0	3012.2	2987.6
15°	3007.3	3000.4	3002.4	3014.2	3029.0	3033.9	3036.8	3043.7	3039.8	3029.0	3007.3
12.5°	2989.6	2980.7	2989.6	3001.4	3009.3	3012.2	3035.9	3048.7	3048.7	3038.8	3025.0
10°	2984.6	2966.9	2978.7	2989.6	2993.5	3011.2	3030.9	3044.7	3051.6	3043.7	3026.0
7.5°	2974.8	2963.0	2967.9	2972.8	2995.5	3008.3	3019.1	3033.9	3043.7	3042.7	3027.0
5°	2969.9	2955.1	2957.1	2977.7	2993.5	3002.4	3006.3	3019.1	3033.9	3036.8	3025.0
2.5°	2957.1	2950.2	2964.9	2966.9	2978.7	2985.6	2989.6	3001.4	3020.1	3027.0	3022.1
0°	2950.2	2940.3	2930.5	2938.3	2958.0	2972.8	2978.7	2996.5	3018.1	3025.0	3014.2



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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	24.6	25.6	25.6	25.6	24.6	25.6	24.6	24.6
85°	85.7	81.8	78.8	74.9	70.9	68.0	64.0	60.1	59.1	58.1	56.1
82.5°	147.8	142.8	137.9	132.0	126.1	119.2	112.3	104.4	102.4	100.5	97.5
80°	207.8	200.9	194.1	187.2	181.2	174.3	166.5	157.6	151.7	146.8	140.9
77.5°	270.9	261.0	251.2	239.4	232.5	225.6	217.7	208.8	200.0	192.1	183.2
75°	342.8	332.0	322.1	310.3	297.5	284.7	271.9	260.0	247.2	235.4	223.6
72.5°	422.6	406.8	391.1	376.3	360.5	344.8	328.0	312.3	296.5	280.7	264.0
70°	506.3	486.6	466.9	447.2	426.5	405.8	386.1	366.4	346.7	326.0	307.3
67.5°	604.8	582.2	556.5	529.0	498.4	471.8	446.2	422.6	398.9	375.3	351.7
65°	727.9	696.4	661.9	624.5	589.0	553.6	516.2	480.7	453.1	425.5	398.9
62.5°	879.6	835.3	787.0	738.8	695.4	649.1	605.8	559.5	516.2	476.8	444.2
60°	1060.9	1000.8	941.7	879.6	819.5	756.5	701.3	644.2	590.0	541.8	494.5
57.5°	1260.8	1190.9	1120.0	1044.1	962.4	888.5	813.6	738.8	674.7	610.7	557.5
55°	1463.7	1389.9	1310.1	1224.4	1134.8	1040.2	938.7	855.0	767.3	692.5	623.5
52.5°	1656.8	1580.0	1497.2	1418.4	1311.1	1202.7	1091.4	981.1	878.6	783.1	699.4
50°	1829.2	1754.3	1674.5	1582.9	1483.5	1368.2	1244.1	1120.0	998.8	886.5	782.1
47.5°	1986.8	1913.9	1834.1	1742.5	1651.9	1523.8	1398.7	1261.8	1126.9	997.8	875.7
45°	2134.6	2060.7	1977.9	1890.3	1785.9	1671.6	1542.6	1404.6	1259.8	1115.1	974.2
42.5°	2268.5	2194.6	2110.9	2020.3	1916.9	1803.6	1678.5	1539.6	1393.8	1236.2	1081.6
40°	2385.7	2313.8	2233.1	2138.5	2042.0	1922.8	1799.6	1667.7	1516.9	1358.4	1187.9
37.5°	2488.2	2421.2	2341.4	2247.8	2145.4	2039.0	1911.9	1779.9	1644.0	1471.6	1297.3
35°	2578.8	2516.7	2435.0	2346.3	2245.9	2133.6	2014.4	1885.3	1738.6	1577.0	1407.6
32.5°	2657.6	2594.6	2519.7	2431.0	2333.5	2228.1	2106.0	1976.0	1837.1	1672.6	1488.4
30°	2724.6	2663.5	2592.6	2508.9	2415.3	2310.9	2191.7	2060.7	1918.8	1755.3	1573.1
27.5°	2782.7	2724.6	2655.6	2577.8	2488.2	2387.7	2267.5	2135.5	1990.7	1833.1	1650.9
25°	2832.9	2776.8	2712.8	2638.9	2550.2	2451.7	2338.5	2200.5	2055.8	1897.2	1716.9
22.5°	2878.2	2824.1	2760.0	2688.1	2607.4	2508.9	2394.6	2257.7	2110.9	1954.3	1777.0
20°	2918.6	2868.4	2805.4	2731.5	2650.7	2551.2	2437.9	2307.9	2160.2	2006.5	1831.2
17.5°	2951.1	2906.8	2843.8	2766.0	2685.2	2588.7	2478.3	2359.1	2202.5	2050.8	1876.5
15°	2973.8	2930.5	2873.3	2794.5	2715.7	2620.2	2509.8	2386.7	2240.9	2086.3	1913.9
12.5°	2989.6	2943.3	2890.1	2817.2	2738.4	2643.8	2536.4	2415.3	2273.4	2117.8	1946.4
10°	2993.5	2951.1	2897.9	2832.9	2756.1	2664.5	2559.1	2438.9	2300.0	2142.4	1973.0
7.5°	2995.5	2955.1	2906.8	2844.8	2768.9	2680.3	2575.8	2457.6	2319.7	2163.1	1992.7
5°	2994.5	2956.1	2912.7	2852.6	2776.8	2689.1	2586.7	2470.4	2333.5	2176.9	2007.5
2.5°	2991.5	2957.1	2916.7	2858.5	2785.7	2699.0	2597.5	2485.2	2348.3	2188.7	2019.3
0°	2999.4	2969.9	2918.6	2856.6	2787.6	2699.0	2596.5	2487.2	2350.3	2187.7	2018.3



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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°	24.6	23.6	23.6	22.7	21.7	20.7	18.7	17.7	15.8	12.8	9.9
85°	53.2	50.2	47.3	45.3	43.3	41.4	38.4	35.5	31.5	25.6	19.7
82.5°	93.6	87.7	81.8	74.9	69.0	63.0	58.1	53.2	47.3	38.4	29.6
80°	134.0	125.1	116.2	106.4	97.5	87.7	78.8	70.9	63.0	51.2	39.4
77.5°	174.3	162.5	149.7	137.9	125.1	112.3	99.5	88.7	76.8	63.0	49.3
75°	211.8	198.0	186.2	169.4	153.7	136.9	120.2	105.4	90.6	73.9	59.1
72.5°	249.2	231.5	214.7	199.0	181.2	160.6	141.8	123.1	104.4	84.7	67.0
70°	286.6	265.0	244.3	225.6	205.9	185.2	162.5	140.9	118.2	94.6	73.9
67.5°	325.1	300.4	276.8	253.2	230.5	206.9	183.2	158.6	132.0	104.4	81.8
65°	367.4	336.9	308.3	281.7	255.1	229.5	202.9	176.3	146.8	115.2	88.7
62.5°	409.8	376.3	342.8	309.3	279.7	251.2	222.6	193.1	160.6	127.1	95.5
60°	455.1	416.7	378.3	340.8	304.4	272.9	241.3	209.8	175.3	137.9	102.4
57.5°	505.3	459.0	415.7	373.3	332.0	294.5	260.0	226.6	188.1	148.7	110.3
55°	562.5	505.3	454.1	406.8	361.5	316.2	278.8	244.3	202.9	159.6	119.2
52.5°	622.5	556.5	494.5	441.3	393.0	341.8	296.5	258.1	217.7	170.4	127.1
50°	692.5	608.7	539.8	474.8	420.6	367.4	315.2	273.8	232.5	183.2	134.9
47.5°	764.4	671.8	585.1	514.2	450.2	392.0	336.9	287.6	246.3	195.0	142.8
45°	848.1	731.9	636.3	552.6	478.7	417.7	358.5	302.4	258.1	206.9	150.7
42.5°	928.9	802.8	689.5	595.0	511.2	442.3	378.3	318.2	269.9	218.7	157.6
40°	1024.4	873.7	740.7	635.3	543.7	465.9	398.0	334.9	280.7	229.5	164.5
37.5°	1116.0	945.6	802.8	679.7	575.3	489.6	417.7	350.7	290.6	240.3	173.4
35°	1206.7	1025.4	861.9	721.0	607.8	516.2	437.4	365.4	300.4	249.2	181.2
32.5°	1293.3	1100.3	922.0	767.3	643.2	540.8	455.1	379.2	310.3	257.1	189.1
30°	1374.1	1171.2	981.1	814.6	675.7	563.4	471.8	393.0	322.1	264.0	197.0
27.5°	1448.0	1240.1	1040.2	858.9	706.3	584.1	489.6	405.8	332.0	270.9	203.9
25°	1515.0	1302.2	1094.4	899.3	733.8	606.8	506.3	418.6	340.8	276.8	209.8
22.5°	1578.0	1359.3	1143.6	939.7	767.3	629.4	522.1	430.5	349.7	282.7	215.7
20°	1633.2	1411.5	1190.9	980.1	796.9	650.1	535.9	441.3	357.6	286.6	221.6
17.5°	1677.5	1457.8	1233.3	1015.6	822.5	667.8	547.7	451.1	364.5	291.6	225.6
15°	1716.9	1497.2	1268.7	1046.1	845.2	682.6	558.5	459.0	370.4	294.5	230.5
12.5°	1750.4	1530.7	1299.3	1072.7	864.9	695.4	567.4	464.9	375.3	297.5	233.5
10°	1778.0	1557.3	1324.9	1093.4	880.6	705.3	574.3	470.8	379.2	300.4	236.4
7.5°	1798.7	1577.0	1343.6	1111.1	893.4	712.2	580.2	474.8	383.2	302.4	241.3
5°	1814.4	1593.8	1358.4	1122.9	903.3	722.0	587.1	479.7	387.1	304.4	241.3
2.5°	1826.2	1607.6	1370.2	1132.8	911.1	720.1	587.1	478.7	387.1	304.4	240.3
0°	1824.3	1608.5	1369.2	1132.8	911.1	718.1	587.1	477.7	387.1	304.4	240.3



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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°	36.4	23.6	11.8	0.0
75°	43.3	27.6	13.8	0.0
72.5°	50.2	32.5	15.8	0.0
70°	56.1	36.4	17.7	0.0
67.5°	62.1	41.4	20.7	0.0
65°	67.0	45.3	22.7	0.0
62.5°	70.9	50.2	24.6	0.0
60°	75.8	54.2	26.6	0.0
57.5°	79.8	57.1	28.6	0.0
55°	83.7	59.1	30.5	0.0
52.5°	87.7	62.1	32.5	0.0
50°	91.6	65.0	34.5	0.0
47.5°	95.5	67.0	35.5	0.0
45°	101.5	69.9	37.4	0.0
42.5°	106.4	71.9	39.4	0.0
40°	111.3	73.9	40.4	0.0
37.5°	116.2	75.8	42.4	0.0
35°	121.2	77.8	43.3	0.0
32.5°	125.1	79.8	44.3	0.0
30°	129.0	81.8	45.3	0.0
27.5°	133.0	82.7	46.3	0.0
25°	135.9	84.7	47.3	0.0
22.5°	138.9	85.7	48.3	0.0
20°	140.9	86.7	49.3	0.0
17.5°	143.8	87.7	50.2	0.0
15°	144.8	88.7	52.2	0.0
12.5°	146.8	89.6	52.2	0.0
10°	147.8	90.6	52.2	0.0
7.5°	149.7	90.6	52.2	0.0
5°	148.7	90.6	52.2	0.0
2.5°	148.7	90.6	52.2	0.0
0°	147.8	90.6	52.2	0.0

(END OF REPORT)