

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: P628503

Luminaire Tested: **IFLD-S-SA3A-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628503
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

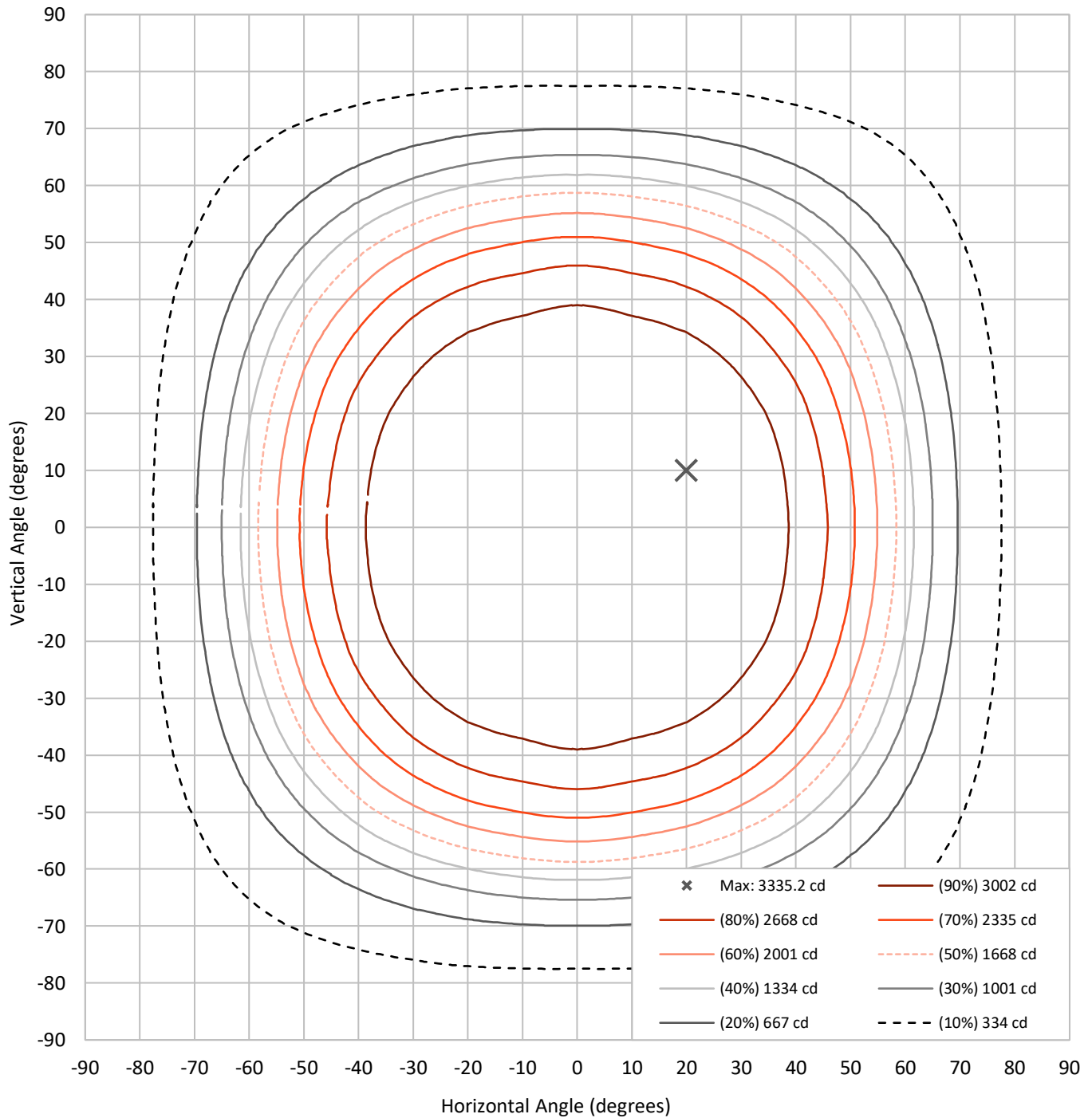
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10231.9 lumens	Max Intensity:	3335.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6278.5 lumens	Field Lumens:	7526.9 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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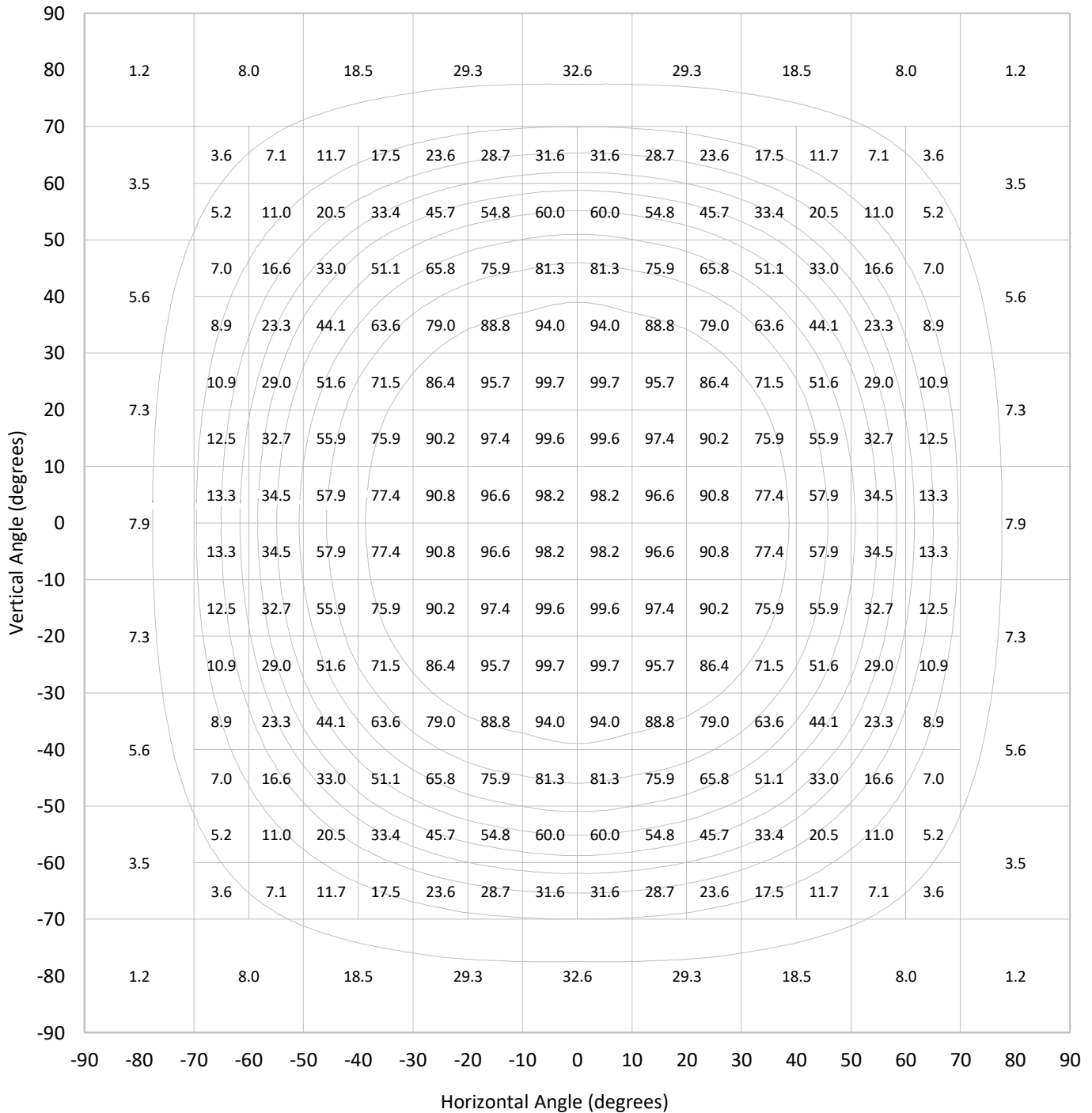
Iso-Candela Plot





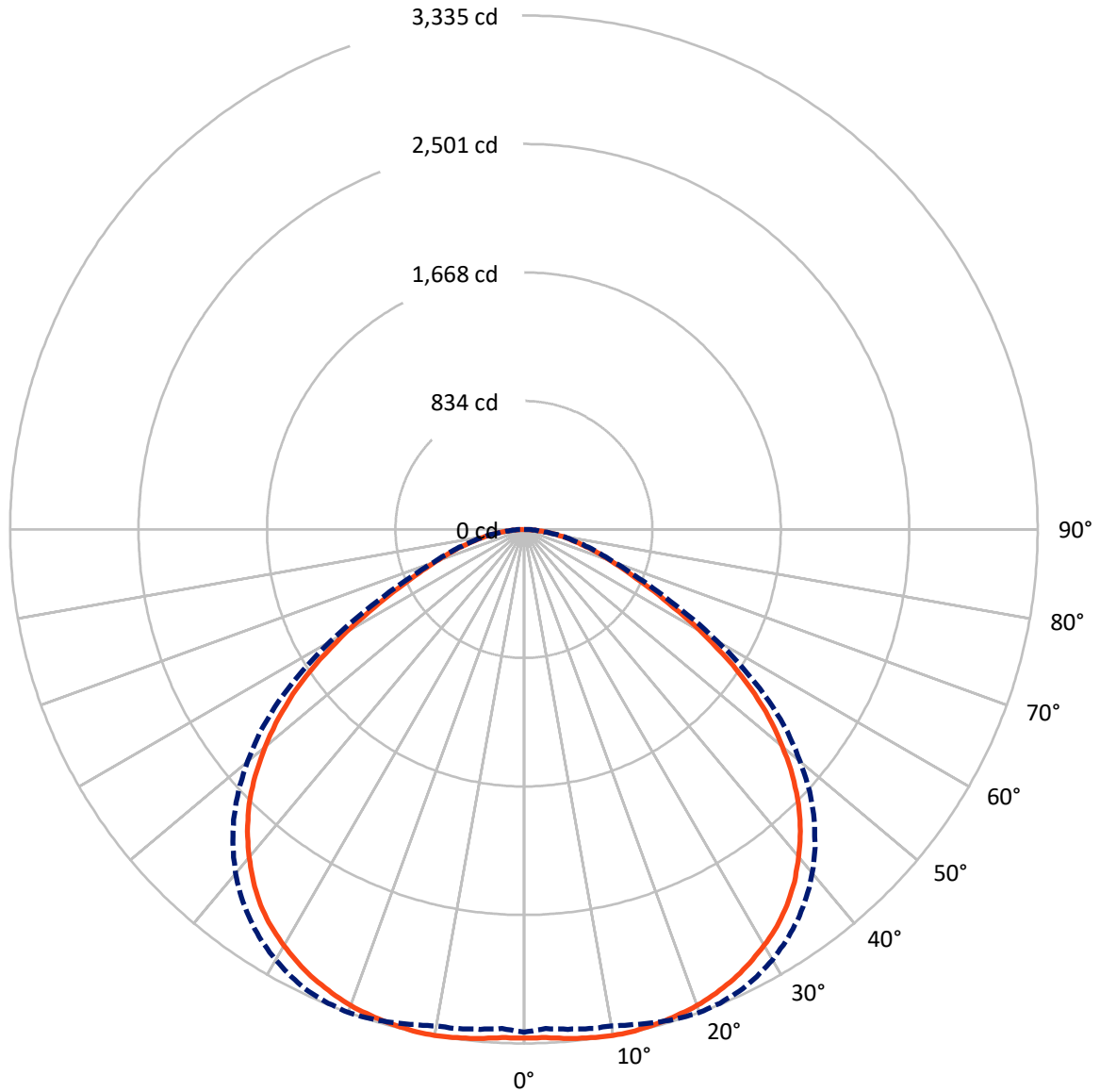
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Lumen Table



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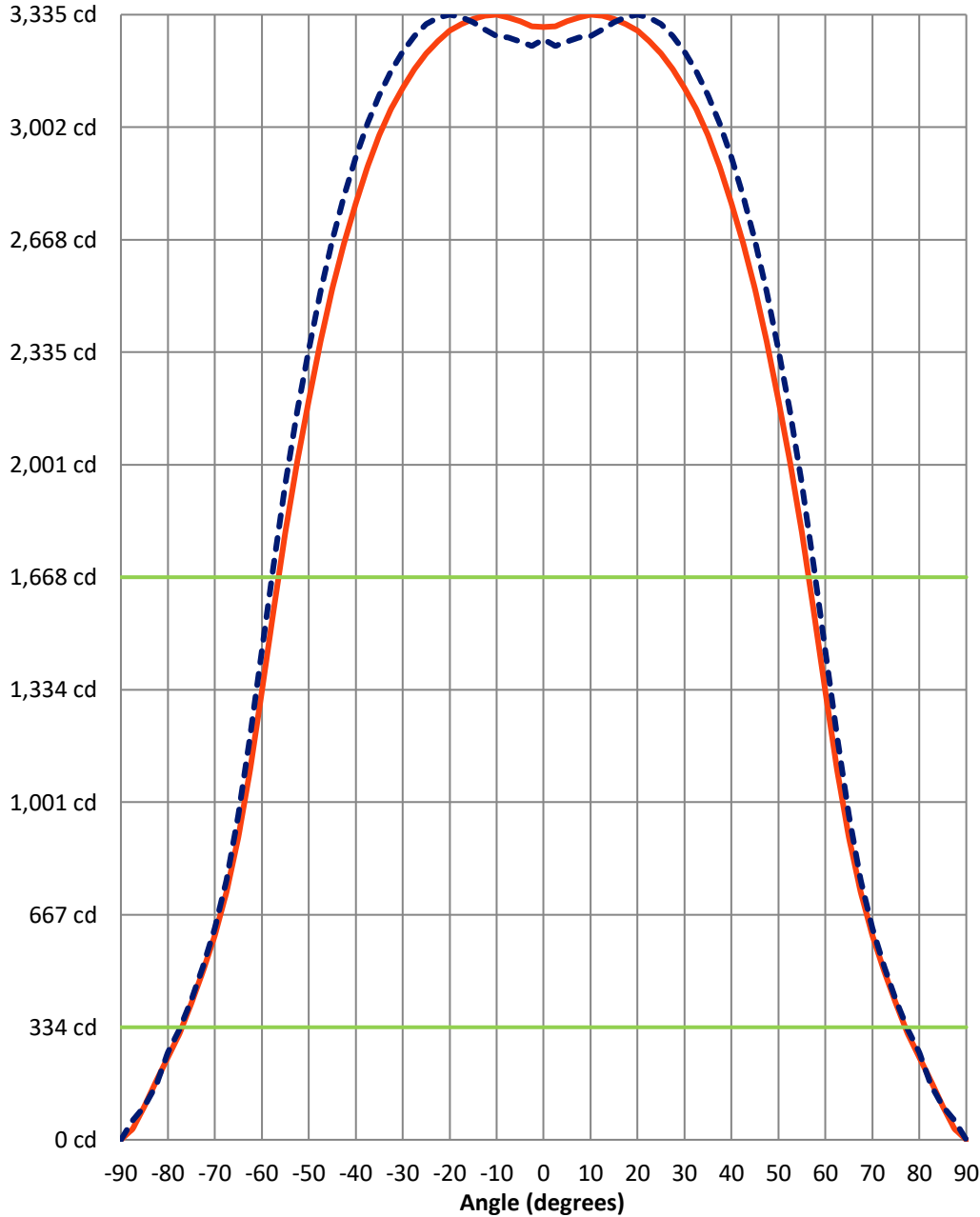
Luminous Intensity Polar Plot



— 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: 6278.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7526.9
 Efficiency: 73.6%

Spill:
 Lumens: 2705
 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°	26.9	29.1	30.1	31.2	32.3	33.4	34.5	33.4	32.3	32.3	31.2
85°	72.1	74.3	75.4	82.9	90.4	94.7	100.1	99.0	99.0	98.0	96.9
82.5°	144.3	150.7	156.1	163.6	167.9	174.4	178.7	175.5	173.3	169.0	165.8
80°	256.2	258.4	259.5	260.5	255.1	254.1	251.9	248.7	244.4	239.0	233.6
77.5°	326.2	328.4	330.5	328.4	327.3	326.2	323.0	319.7	315.4	311.1	304.7
75°	431.7	431.7	431.7	428.5	426.3	423.1	417.7	412.3	404.8	396.2	386.5
72.5°	543.7	542.6	541.5	535.1	529.7	523.2	515.7	509.2	500.6	490.9	478.0
70°	661.0	663.2	664.2	655.6	649.2	640.6	630.9	619.0	606.1	592.1	573.8
67.5°	822.5	820.3	818.2	806.3	797.7	785.9	771.9	754.7	735.3	713.8	687.9
65°	1022.7	1026.0	1019.5	1007.7	991.5	972.1	950.6	925.8	896.8	864.5	827.9
62.5°	1265.0	1270.3	1262.8	1247.7	1227.3	1201.4	1171.3	1135.8	1095.9	1050.7	1005.5
60°	1540.6	1539.5	1525.5	1505.0	1478.1	1445.8	1412.5	1373.7	1328.5	1275.7	1220.8
57.5°	1793.6	1791.4	1774.2	1753.7	1726.8	1692.4	1656.8	1615.9	1568.6	1512.6	1449.1
55°	2020.7	2018.6	2001.3	1979.8	1951.8	1917.4	1885.1	1846.3	1800.0	1740.8	1673.0
52.5°	2222.0	2223.1	2208.0	2184.3	2154.2	2120.8	2089.6	2050.9	2006.7	1947.5	1881.8
50°	2407.2	2406.1	2390.0	2368.4	2340.5	2308.2	2276.9	2238.2	2191.9	2134.8	2071.3
47.5°	2579.4	2577.3	2559.0	2535.3	2506.2	2478.3	2449.2	2414.7	2366.3	2309.2	2245.7
45°	2723.7	2719.4	2701.1	2678.5	2650.5	2625.7	2599.9	2574.1	2522.4	2469.6	2409.4
42.5°	2847.5	2846.4	2828.1	2805.5	2777.5	2756.0	2732.3	2700.0	2657.0	2608.5	2549.3
40°	2965.9	2957.3	2939.0	2917.5	2891.7	2873.3	2849.7	2817.4	2775.4	2728.0	2671.0
37.5°	3054.2	3055.3	3035.9	3012.2	2989.6	2972.4	2950.9	2920.7	2884.1	2837.8	2780.8
35°	3138.2	3132.8	3116.7	3096.2	3075.7	3056.4	3033.8	3007.9	2977.8	2934.7	2880.9
32.5°	3193.1	3200.6	3181.2	3159.7	3147.9	3132.8	3109.1	3082.2	3055.3	3012.2	2963.8
30°	3253.4	3246.9	3231.8	3213.5	3204.9	3195.2	3174.8	3149.0	3117.7	3079.0	3033.8
27.5°	3295.4	3292.1	3273.8	3256.6	3252.3	3243.7	3227.5	3204.9	3173.7	3136.0	3094.0
25°	3313.7	3315.8	3298.6	3288.9	3288.9	3283.5	3270.6	3251.2	3220.0	3185.6	3144.6
22.5°	3322.3	3320.1	3308.3	3306.1	3311.5	3307.2	3301.8	3284.6	3256.6	3228.6	3194.2
20°	3327.7	3312.6	3301.8	3310.4	3316.9	3315.8	3311.5	3300.7	3287.8	3264.1	3234.0
17.5°	3315.8	3306.1	3293.2	3306.1	3320.1	3321.2	3316.9	3310.4	3307.2	3292.1	3265.2
15°	3286.8	3279.2	3281.4	3294.3	3310.4	3315.8	3319.0	3326.6	3322.3	3310.4	3286.8
12.5°	3267.4	3257.7	3267.4	3280.3	3288.9	3292.1	3318.0	3332.0	3332.0	3321.2	3306.1
10°	3262.0	3242.6	3255.5	3267.4	3271.7	3291.1	3312.6	3327.7	3335.2	3326.6	3307.2
7.5°	3251.2	3238.3	3243.7	3249.1	3273.8	3287.8	3299.7	3315.8	3326.6	3325.5	3308.3
5°	3245.8	3229.7	3231.8	3254.5	3271.7	3281.4	3285.7	3299.7	3315.8	3319.0	3306.1
2.5°	3231.8	3224.3	3240.5	3242.6	3255.5	3263.1	3267.4	3280.3	3300.7	3308.3	3302.9
0°	3224.3	3213.5	3202.8	3211.4	3232.9	3249.1	3255.5	3274.9	3298.6	3306.1	3294.3



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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°	30.1	29.1	28.0	26.9	28.0	28.0	28.0	26.9	28.0	26.9	26.9
85°	93.7	89.4	86.1	81.8	77.5	74.3	70.0	65.7	64.6	63.5	61.4
82.5°	161.5	156.1	150.7	144.3	137.8	130.3	122.7	114.1	112.0	109.8	106.6
80°	227.2	219.6	212.1	204.5	198.1	190.6	181.9	172.3	165.8	160.4	153.9
77.5°	296.1	285.3	274.5	261.6	254.1	246.5	237.9	228.2	218.5	209.9	200.2
75°	374.6	362.8	352.0	339.1	325.1	311.1	297.1	284.2	270.2	257.3	244.4
72.5°	461.8	444.6	427.4	411.2	394.0	376.8	358.5	341.3	324.0	306.8	288.5
70°	553.4	531.8	510.3	488.8	466.2	443.5	422.0	400.5	379.0	356.3	335.9
67.5°	661.0	636.2	608.3	578.1	544.7	515.7	487.7	461.8	436.0	410.2	384.3
65°	795.6	761.1	723.5	682.5	643.8	605.0	564.1	525.4	495.2	465.1	436.0
62.5°	961.4	912.9	860.2	807.4	760.1	709.5	662.1	611.5	564.1	521.1	485.5
60°	1159.5	1093.8	1029.2	961.4	895.7	826.8	766.5	704.1	644.9	592.1	540.4
57.5°	1378.0	1301.6	1224.1	1141.2	1051.8	971.1	889.2	807.4	737.4	667.5	609.3
55°	1599.8	1519.0	1431.8	1338.2	1240.2	1136.9	1026.0	934.5	838.6	756.8	681.5
52.5°	1810.8	1726.8	1636.4	1550.3	1432.9	1314.5	1192.8	1072.3	960.3	855.9	764.4
50°	1999.2	1917.4	1830.2	1730.0	1621.3	1495.3	1359.7	1224.1	1091.6	968.9	854.8
47.5°	2171.4	2091.8	2004.6	1904.4	1805.4	1665.4	1528.7	1379.1	1231.6	1090.6	957.1
45°	2332.9	2252.2	2161.7	2065.9	1951.8	1826.9	1685.9	1535.2	1376.9	1218.7	1064.7
42.5°	2479.3	2398.6	2307.1	2208.0	2095.0	1971.2	1834.5	1682.7	1523.3	1351.1	1182.1
40°	2607.4	2528.8	2440.6	2337.2	2231.7	2101.5	1966.9	1822.6	1657.9	1484.6	1298.3
37.5°	2719.4	2646.2	2559.0	2456.7	2344.8	2228.5	2089.6	1945.4	1796.8	1608.4	1417.8
35°	2818.4	2750.6	2661.3	2564.4	2454.6	2331.8	2201.6	2060.5	1900.1	1723.6	1538.4
32.5°	2904.6	2835.7	2753.9	2657.0	2550.4	2435.2	2301.7	2159.6	2007.8	1828.0	1626.7
30°	2977.8	2911.0	2833.5	2742.0	2639.7	2525.6	2395.4	2252.2	2097.1	1918.4	1719.3
27.5°	3041.3	2977.8	2902.4	2817.4	2719.4	2609.6	2478.3	2334.0	2175.7	2003.5	1804.3
25°	3096.2	3034.8	2964.9	2884.1	2787.2	2679.6	2555.8	2405.0	2246.8	2073.5	1876.5
22.5°	3145.7	3086.5	3016.5	2937.9	2849.7	2742.0	2617.1	2467.5	2307.1	2135.9	1942.1
20°	3189.9	3135.0	3066.1	2985.3	2897.0	2788.3	2664.5	2522.4	2360.9	2193.0	2001.3
17.5°	3225.4	3176.9	3108.0	3023.0	2934.7	2829.2	2708.6	2578.4	2407.2	2241.4	2050.9
15°	3250.1	3202.8	3140.3	3054.2	2968.1	2863.7	2743.1	2608.5	2449.2	2280.2	2091.8
12.5°	3267.4	3216.8	3158.6	3079.0	2992.8	2889.5	2772.2	2639.7	2484.7	2314.6	2127.3
10°	3271.7	3225.4	3167.3	3096.2	3012.2	2912.1	2796.9	2665.6	2513.8	2341.5	2156.4
7.5°	3273.8	3229.7	3176.9	3109.1	3026.2	2929.3	2815.2	2686.0	2535.3	2364.1	2177.9
5°	3272.8	3230.8	3183.4	3117.7	3034.8	2939.0	2827.1	2700.0	2550.4	2379.2	2194.0
2.5°	3269.5	3231.8	3187.7	3124.2	3044.5	2949.8	2838.9	2716.2	2566.5	2392.1	2207.0
0°	3278.1	3245.8	3189.9	3122.0	3046.7	2949.8	2837.8	2718.3	2568.7	2391.0	2205.9



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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°	26.9	25.8	25.8	24.8	23.7	22.6	20.5	19.4	17.2	14.0	10.8
85°	58.1	54.9	51.7	49.5	47.4	45.2	42.0	38.8	34.5	28.0	21.5
82.5°	102.3	95.8	89.4	81.8	75.4	68.9	63.5	58.1	51.7	42.0	32.3
80°	146.4	136.7	127.0	116.3	106.6	95.8	86.1	77.5	68.9	56.0	43.1
77.5°	190.6	177.6	163.6	150.7	136.7	122.7	108.7	96.9	84.0	68.9	53.8
75°	231.5	216.4	203.5	185.2	167.9	149.6	131.3	115.2	99.0	80.7	64.6
72.5°	272.4	253.0	234.7	217.5	198.1	175.5	155.0	134.6	114.1	92.6	73.2
70°	313.3	289.6	267.0	246.5	225.0	202.4	177.6	153.9	129.2	103.4	80.7
67.5°	355.3	328.4	302.5	276.7	251.9	226.1	200.2	173.3	144.3	114.1	89.4
65°	401.6	368.2	337.0	307.9	278.8	250.8	221.8	192.7	160.4	126.0	96.9
62.5°	447.9	411.2	374.6	338.0	305.7	274.5	243.3	211.0	175.5	138.9	104.4
60°	497.4	455.4	413.4	372.5	332.7	298.2	263.8	229.3	191.6	150.7	112.0
57.5°	552.3	501.7	454.3	408.0	362.8	321.9	284.2	247.6	205.6	162.6	120.6
55°	614.7	552.3	496.3	444.6	395.1	345.6	304.7	267.0	221.8	174.4	130.3
52.5°	680.4	608.3	540.4	482.3	429.5	373.6	324.0	282.1	237.9	186.2	138.9
50°	756.8	665.3	590.0	518.9	459.7	401.6	344.5	299.3	254.1	200.2	147.5
47.5°	835.4	734.2	639.5	562.0	492.0	428.5	368.2	314.4	269.1	213.2	156.1
45°	926.9	799.9	695.5	604.0	523.2	456.5	391.9	330.5	282.1	226.1	164.7
42.5°	1015.2	877.4	753.6	650.2	558.7	483.4	413.4	347.7	295.0	239.0	172.3
40°	1119.6	954.9	809.6	694.4	594.3	509.2	434.9	366.0	306.8	250.8	179.8
37.5°	1219.7	1033.5	877.4	742.8	628.7	535.1	456.5	383.3	317.6	262.7	189.5
35°	1318.8	1120.7	942.0	788.0	664.2	564.1	478.0	399.4	328.4	272.4	198.1
32.5°	1413.5	1202.5	1007.7	838.6	703.0	591.0	497.4	414.5	339.1	281.0	206.7
30°	1501.8	1280.0	1072.3	890.3	738.5	615.8	515.7	429.5	352.0	288.5	215.3
27.5°	1582.5	1355.4	1136.9	938.8	771.9	638.4	535.1	443.5	362.8	296.1	222.8
25°	1655.8	1423.2	1196.1	982.9	802.0	663.2	553.4	457.5	372.5	302.5	229.3
22.5°	1724.7	1485.7	1249.9	1027.0	838.6	687.9	570.6	470.5	382.2	309.0	235.8
20°	1784.9	1542.7	1301.6	1071.2	870.9	710.5	585.7	482.3	390.8	313.3	242.2
17.5°	1833.4	1593.3	1347.9	1109.9	898.9	729.9	598.6	493.1	398.3	318.7	246.5
15°	1876.5	1636.4	1386.6	1143.3	923.7	746.1	610.4	501.7	404.8	321.9	251.9
12.5°	1913.1	1673.0	1420.0	1172.4	945.2	760.1	620.1	508.1	410.2	325.1	255.1
10°	1943.2	1702.0	1448.0	1195.0	962.4	770.8	627.6	514.6	414.5	328.4	258.4
7.5°	1965.8	1723.6	1468.4	1214.4	976.4	778.4	634.1	518.9	418.8	330.5	263.8
5°	1983.0	1741.9	1484.6	1227.3	987.2	789.1	641.6	524.3	423.1	332.7	263.8
2.5°	1995.9	1757.0	1497.5	1238.0	995.8	787.0	641.6	523.2	423.1	332.7	262.7
0°	1993.8	1758.0	1496.4	1238.0	995.8	784.8	641.6	522.1	423.1	332.7	262.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.5	5.4	2.2	0.0
85°	16.1	10.8	5.4	0.0
82.5°	23.7	15.1	7.5	0.0
80°	31.2	20.5	9.7	0.0
77.5°	39.8	25.8	12.9	0.0
75°	47.4	30.1	15.1	0.0
72.5°	54.9	35.5	17.2	0.0
70°	61.4	39.8	19.4	0.0
67.5°	67.8	45.2	22.6	0.0
65°	73.2	49.5	24.8	0.0
62.5°	77.5	54.9	26.9	0.0
60°	82.9	59.2	29.1	0.0
57.5°	87.2	62.4	31.2	0.0
55°	91.5	64.6	33.4	0.0
52.5°	95.8	67.8	35.5	0.0
50°	100.1	71.1	37.7	0.0
47.5°	104.4	73.2	38.8	0.0
45°	110.9	76.4	40.9	0.0
42.5°	116.3	78.6	43.1	0.0
40°	121.7	80.7	44.1	0.0
37.5°	127.0	82.9	46.3	0.0
35°	132.4	85.0	47.4	0.0
32.5°	136.7	87.2	48.4	0.0
30°	141.0	89.4	49.5	0.0
27.5°	145.3	90.4	50.6	0.0
25°	148.6	92.6	51.7	0.0
22.5°	151.8	93.7	52.8	0.0
20°	153.9	94.7	53.8	0.0
17.5°	157.2	95.8	54.9	0.0
15°	158.3	96.9	57.1	0.0
12.5°	160.4	98.0	57.1	0.0
10°	161.5	99.0	57.1	0.0
7.5°	163.6	99.0	57.1	0.0
5°	162.6	99.0	57.1	0.0
2.5°	162.6	99.0	57.1	0.0
0°	161.5	99.0	57.1	0.0

(END OF REPORT)