

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: P628500

Luminaire Tested: **IFLD-S-SA2C-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628500
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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:	10570.2 lumens	Max Intensity:	3445.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	97.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

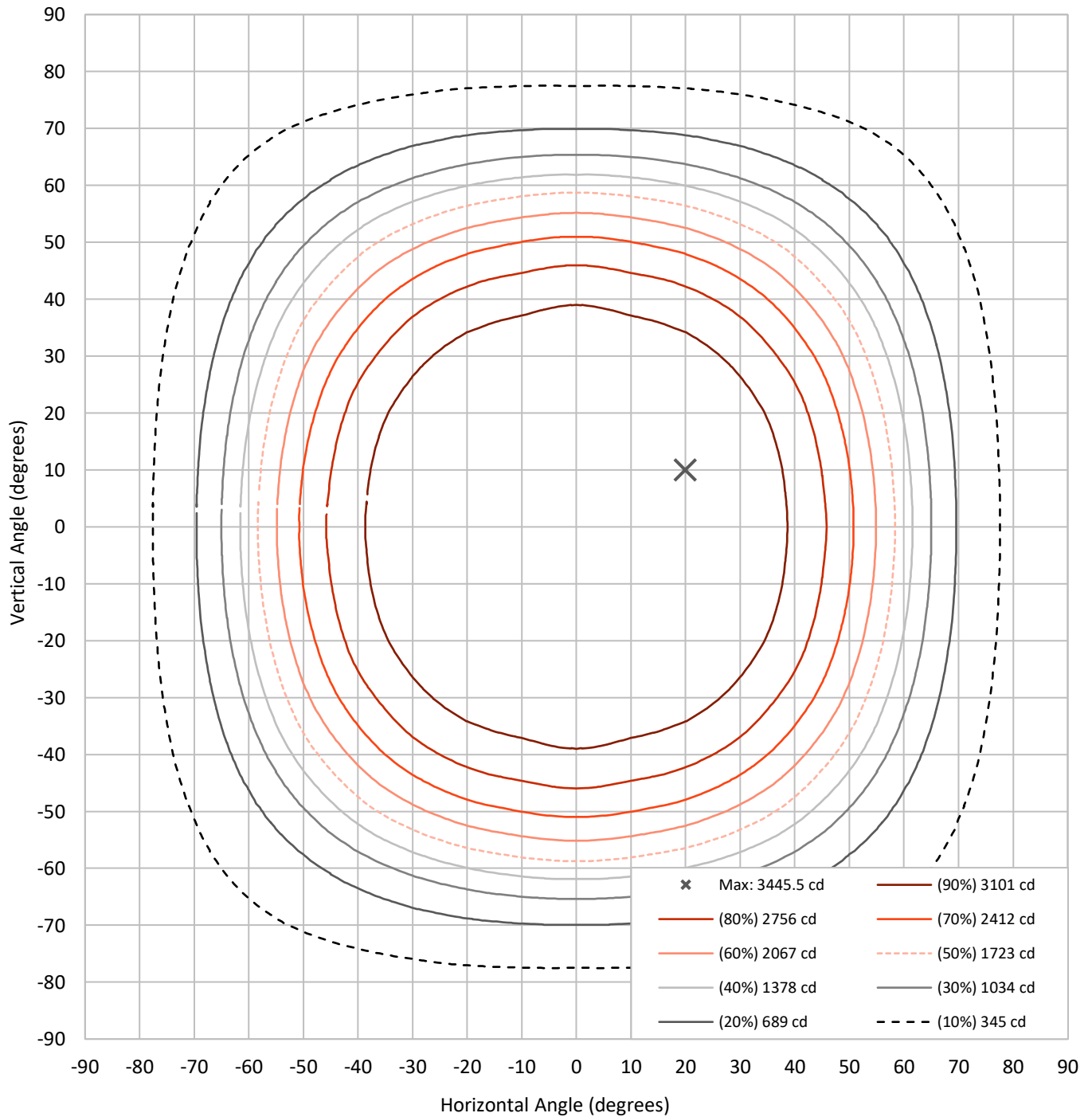
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6486.1 lumens	Field Lumens:	7775.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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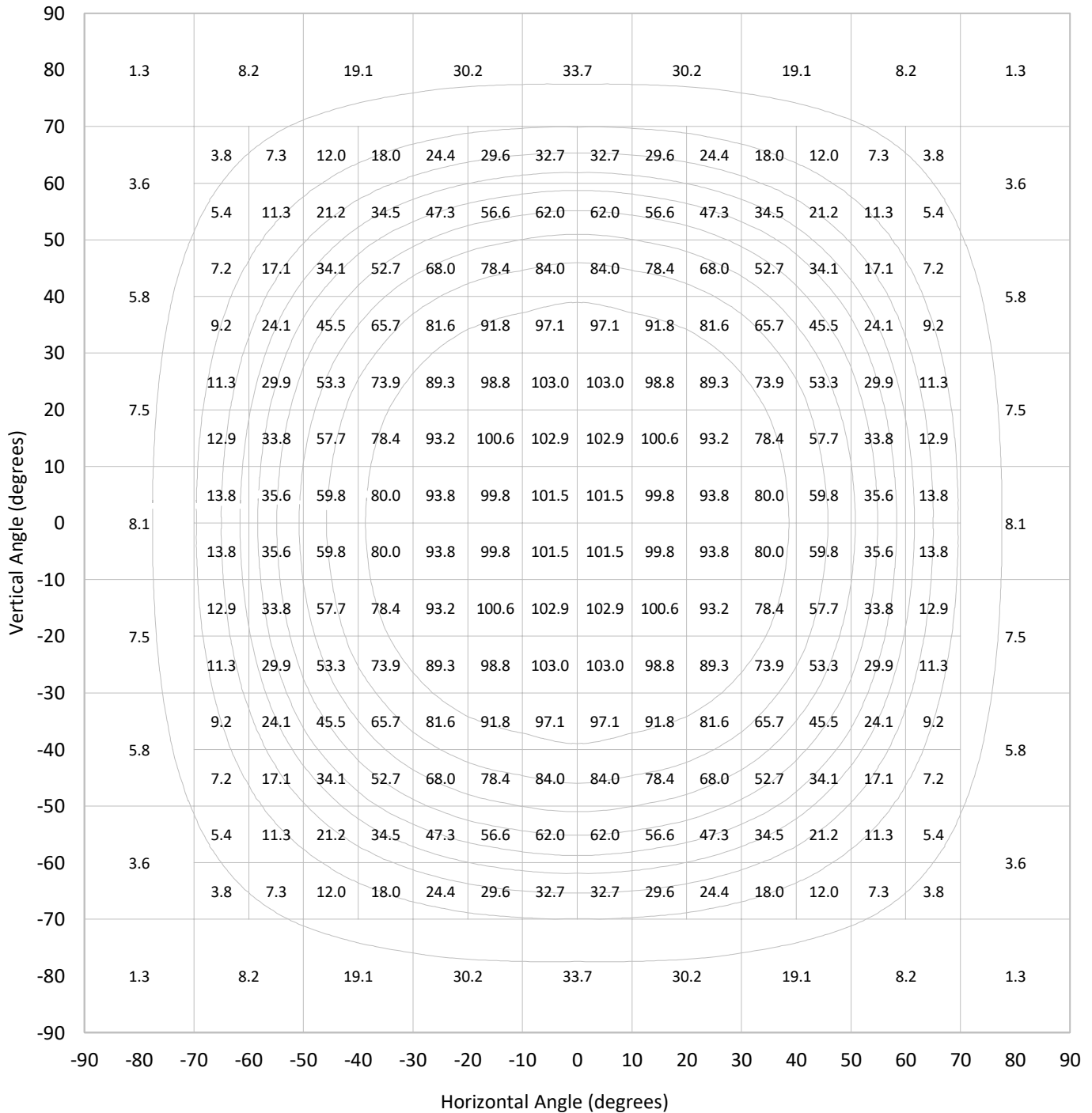
Iso-Candela Plot





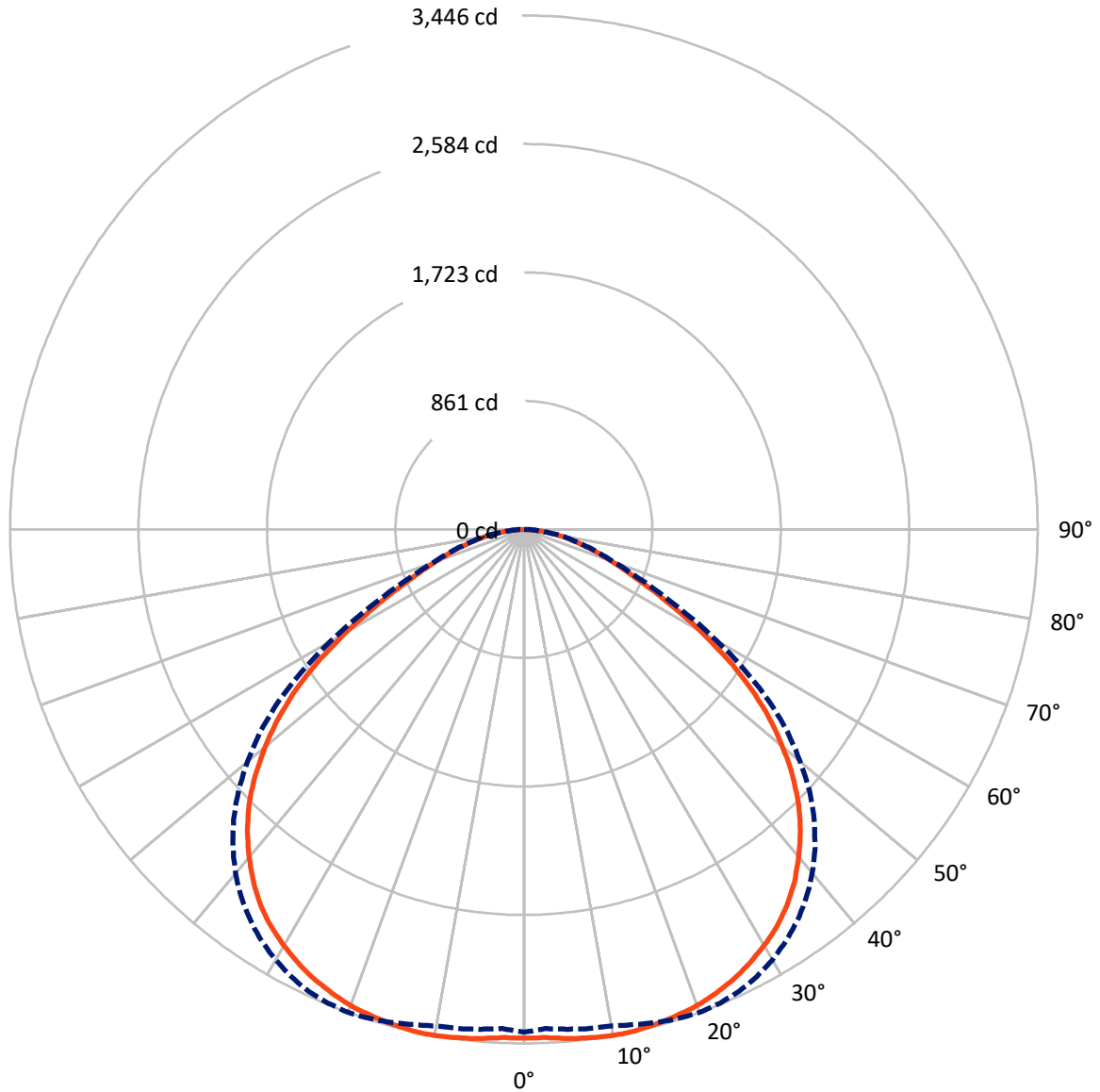
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Lumen Table



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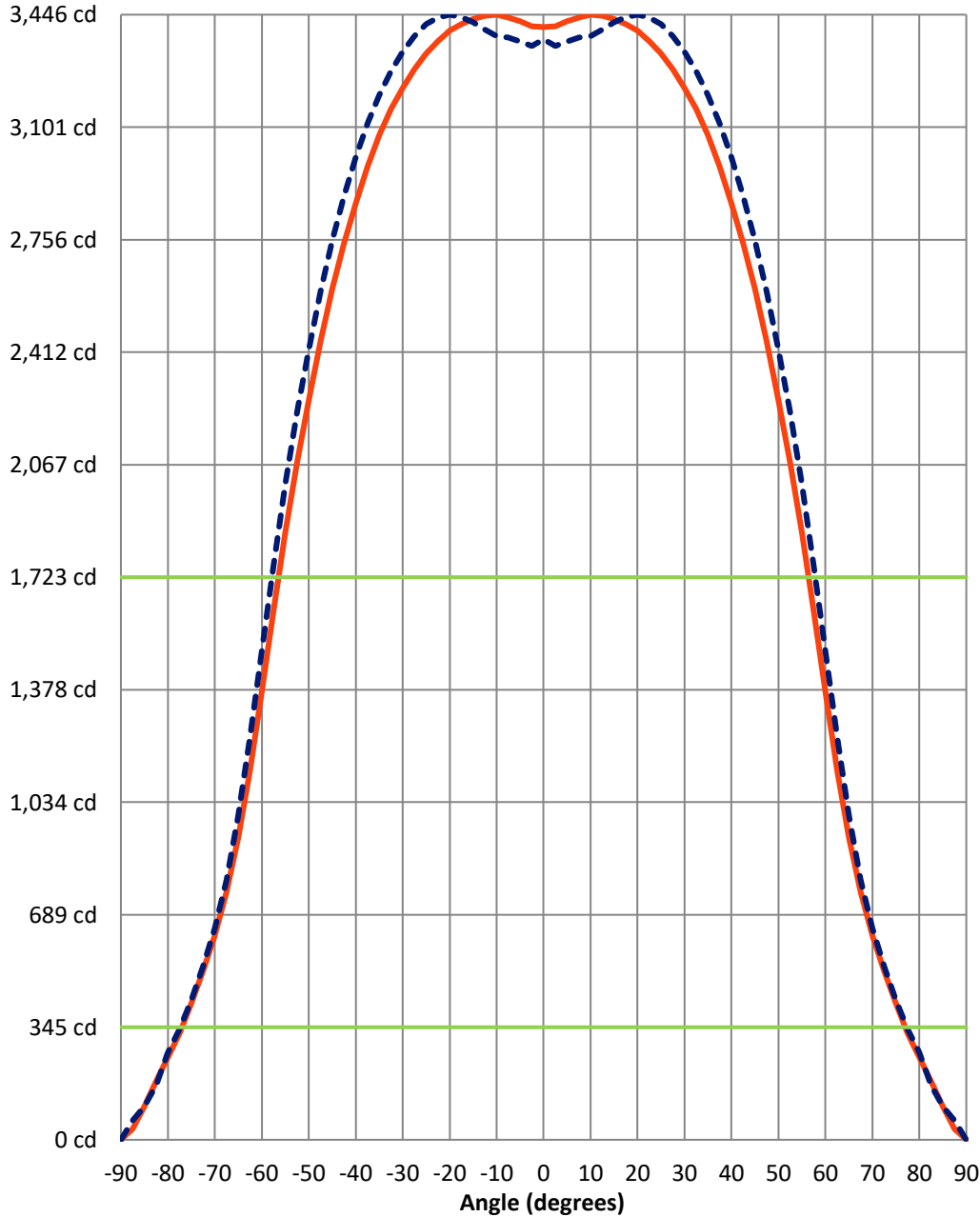
Luminous Intensity Polar Plot



— 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: 6486.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7775.7
 Efficiency: 73.6%

Spill:
 Lumens: 2794.5
 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°	27.8	30.0	31.1	32.3	33.4	34.5	35.6	34.5	33.4	33.4	32.3
85°	74.5	76.7	77.9	85.6	93.4	97.9	103.4	102.3	102.3	101.2	100.1
82.5°	149.0	155.7	161.3	169.0	173.5	180.2	184.6	181.3	179.1	174.6	171.3
80°	264.7	266.9	268.0	269.1	263.6	262.5	260.2	256.9	252.5	246.9	241.3
77.5°	337.0	339.2	341.4	339.2	338.1	337.0	333.6	330.3	325.9	321.4	314.7
75°	446.0	446.0	446.0	442.6	440.4	437.1	431.5	426.0	418.2	409.3	399.3
72.5°	561.6	560.5	559.4	552.7	547.2	540.5	532.7	526.1	517.2	507.1	493.8
70°	682.9	685.1	686.2	677.3	670.6	661.7	651.7	639.5	626.1	611.7	592.8
67.5°	849.7	847.5	845.2	833.0	824.1	811.9	797.4	779.6	759.6	737.4	710.7
65°	1056.5	1059.9	1053.2	1041.0	1024.3	1004.3	982.0	956.5	926.4	893.1	855.2
62.5°	1306.8	1312.3	1304.6	1289.0	1267.9	1241.2	1210.0	1173.3	1132.2	1085.5	1038.8
60°	1591.5	1590.4	1575.9	1554.8	1527.0	1493.6	1459.1	1419.1	1372.4	1317.9	1261.2
57.5°	1852.9	1850.6	1832.8	1811.7	1783.9	1748.3	1711.6	1669.3	1620.4	1562.6	1497.0
55°	2087.5	2085.3	2067.5	2045.3	2016.3	1980.8	1947.4	1907.3	1859.5	1798.4	1728.3
52.5°	2295.5	2296.6	2281.0	2256.6	2225.4	2190.9	2158.7	2118.7	2073.1	2011.9	1944.1
50°	2486.8	2485.7	2469.0	2446.7	2417.8	2384.5	2352.2	2312.2	2264.4	2205.4	2139.8
47.5°	2664.7	2662.5	2643.6	2619.1	2589.1	2560.2	2530.2	2494.6	2444.5	2385.6	2320.0
45°	2813.8	2809.3	2790.4	2767.0	2738.1	2712.6	2685.9	2659.2	2605.8	2551.3	2489.0
42.5°	2941.7	2940.5	2921.6	2898.3	2869.4	2847.1	2822.7	2789.3	2744.8	2694.8	2633.6
40°	3064.0	3055.1	3036.2	3013.9	2987.3	2968.3	2943.9	2910.5	2867.1	2818.2	2759.3
37.5°	3155.2	3156.3	3136.3	3111.8	3088.5	3070.7	3048.4	3017.3	2979.5	2931.6	2872.7
35°	3241.9	3236.4	3219.7	3198.6	3177.4	3157.4	3134.1	3107.4	3076.2	3031.7	2976.1
32.5°	3298.7	3306.4	3286.4	3264.2	3251.9	3236.4	3211.9	3184.1	3156.3	3111.8	3061.8
30°	3360.9	3354.3	3338.7	3319.8	3310.9	3300.9	3279.8	3253.1	3220.8	3180.8	3134.1
27.5°	3404.3	3401.0	3382.1	3364.3	3359.8	3350.9	3334.2	3310.9	3278.6	3239.7	3196.3
25°	3423.2	3425.4	3407.6	3397.6	3397.6	3392.1	3378.7	3358.7	3326.5	3290.9	3248.6
22.5°	3432.1	3429.9	3417.7	3415.4	3421.0	3416.5	3411.0	3393.2	3364.3	3335.4	3299.8
20°	3437.7	3422.1	3411.0	3419.9	3426.6	3425.4	3421.0	3409.9	3396.5	3372.1	3340.9
17.5°	3425.4	3415.4	3402.1	3415.4	3429.9	3431.0	3426.6	3419.9	3416.5	3401.0	3373.2
15°	3395.4	3387.6	3389.9	3403.2	3419.9	3425.4	3428.8	3436.6	3432.1	3419.9	3395.4
12.5°	3375.4	3365.4	3375.4	3388.7	3397.6	3401.0	3427.7	3442.1	3442.1	3431.0	3415.4
10°	3369.8	3349.8	3363.2	3375.4	3379.8	3399.9	3422.1	3437.7	3445.5	3436.6	3416.5
7.5°	3358.7	3345.4	3350.9	3356.5	3382.1	3396.5	3408.8	3425.4	3436.6	3435.5	3417.7
5°	3353.2	3336.5	3338.7	3362.1	3379.8	3389.9	3394.3	3408.8	3425.4	3428.8	3415.4
2.5°	3338.7	3330.9	3347.6	3349.8	3363.2	3370.9	3375.4	3388.7	3409.9	3417.7	3412.1
0°	3330.9	3319.8	3308.7	3317.6	3339.8	3356.5	3363.2	3383.2	3407.6	3415.4	3403.2



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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°	31.1	30.0	28.9	27.8	28.9	28.9	28.9	27.8	28.9	27.8	27.8
85°	96.8	92.3	89.0	84.5	80.1	76.7	72.3	67.8	66.7	65.6	63.4
82.5°	166.8	161.3	155.7	149.0	142.4	134.6	126.8	117.9	115.7	113.4	110.1
80°	234.7	226.9	219.1	211.3	204.6	196.9	188.0	177.9	171.3	165.7	159.0
77.5°	305.8	294.7	283.6	270.3	262.5	254.7	245.8	235.8	225.8	216.9	206.9
75°	387.0	374.8	363.7	350.3	335.9	321.4	307.0	293.6	279.2	265.8	252.5
72.5°	477.1	459.3	441.5	424.8	407.0	389.3	370.3	352.6	334.8	317.0	298.1
70°	571.6	549.4	527.2	504.9	481.6	458.2	436.0	413.7	391.5	368.1	347.0
67.5°	682.9	657.3	628.4	597.2	562.8	532.7	503.8	477.1	450.4	423.7	397.0
65°	821.9	786.3	747.4	705.1	665.1	625.0	582.8	542.7	511.6	480.5	450.4
62.5°	993.2	943.1	888.6	834.1	785.2	732.9	684.0	631.7	582.8	538.3	501.6
60°	1197.8	1130.0	1063.2	993.2	925.3	854.1	791.9	727.4	666.2	611.7	558.3
57.5°	1423.6	1344.6	1264.5	1178.9	1086.6	1003.2	918.6	834.1	761.8	689.5	629.5
55°	1652.7	1569.3	1479.2	1382.4	1281.2	1174.4	1059.9	965.4	866.4	781.8	704.0
52.5°	1870.6	1783.9	1690.5	1601.5	1480.3	1357.9	1232.3	1107.7	992.0	884.2	789.6
50°	2065.3	1980.8	1890.7	1787.2	1674.9	1544.8	1404.7	1264.5	1127.7	1000.9	883.1
47.5°	2243.2	2160.9	2070.8	1967.4	1865.1	1720.5	1579.3	1424.7	1272.3	1126.6	988.7
45°	2410.0	2326.6	2233.2	2134.2	2016.3	1887.3	1741.6	1585.9	1422.4	1259.0	1099.9
42.5°	2561.3	2477.9	2383.4	2281.0	2164.3	2036.4	1895.1	1738.3	1573.7	1395.8	1221.1
40°	2693.6	2612.5	2521.3	2414.5	2305.5	2170.9	2031.9	1882.9	1712.7	1533.7	1341.3
37.5°	2809.3	2733.7	2643.6	2537.9	2422.3	2302.2	2158.7	2009.7	1856.2	1661.6	1464.7
35°	2911.6	2841.6	2749.3	2649.2	2535.7	2408.9	2274.4	2128.7	1963.0	1780.6	1589.3
32.5°	3000.6	2929.4	2844.9	2744.8	2634.7	2515.7	2377.8	2231.0	2074.2	1888.4	1680.5
30°	3076.2	3007.3	2927.2	2832.7	2727.0	2609.1	2474.5	2326.6	2166.5	1981.9	1776.1
27.5°	3141.8	3076.2	2998.4	2910.5	2809.3	2695.9	2560.2	2411.2	2247.7	2069.7	1864.0
25°	3198.6	3135.2	3062.9	2979.5	2879.4	2768.2	2640.3	2484.6	2321.1	2142.0	1938.5
22.5°	3249.7	3188.6	3116.3	3035.1	2943.9	2832.7	2703.7	2549.1	2383.4	2206.5	2006.3
20°	3295.3	3238.6	3167.4	3084.0	2992.8	2880.5	2752.6	2605.8	2439.0	2265.5	2067.5
17.5°	3332.0	3282.0	3210.8	3122.9	3031.7	2922.7	2798.2	2663.6	2486.8	2315.5	2118.7
15°	3357.6	3308.7	3244.2	3155.2	3066.2	2958.3	2833.8	2694.8	2530.2	2355.5	2160.9
12.5°	3375.4	3323.1	3263.1	3180.8	3091.8	2985.0	2863.8	2727.0	2566.9	2391.1	2197.6
10°	3379.8	3332.0	3272.0	3198.6	3111.8	3008.4	2889.4	2753.7	2596.9	2418.9	2227.7
7.5°	3382.1	3336.5	3282.0	3211.9	3126.3	3026.2	2908.3	2774.8	2619.1	2442.3	2249.9
5°	3381.0	3337.6	3288.6	3220.8	3135.2	3036.2	2920.5	2789.3	2634.7	2457.9	2266.6
2.5°	3377.6	3338.7	3293.1	3227.5	3145.2	3047.3	2932.8	2806.0	2651.4	2471.2	2279.9
0°	3386.5	3353.2	3295.3	3225.3	3147.4	3047.3	2931.6	2808.2	2653.6	2470.1	2278.8



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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°	27.8	26.7	26.7	25.6	24.5	23.4	21.1	20.0	17.8	14.5	11.1
85°	60.1	56.7	53.4	51.2	48.9	46.7	43.4	40.0	35.6	28.9	22.2
82.5°	105.7	99.0	92.3	84.5	77.9	71.2	65.6	60.1	53.4	43.4	33.4
80°	151.3	141.2	131.2	120.1	110.1	99.0	89.0	80.1	71.2	57.8	44.5
77.5°	196.9	183.5	169.0	155.7	141.2	126.8	112.3	100.1	86.7	71.2	55.6
75°	239.1	223.5	210.2	191.3	173.5	154.6	135.7	119.0	102.3	83.4	66.7
72.5°	281.4	261.4	242.5	224.7	204.6	181.3	160.2	139.0	117.9	95.6	75.6
70°	323.6	299.2	275.8	254.7	232.4	209.1	183.5	159.0	133.5	106.8	83.4
67.5°	367.0	339.2	312.5	285.8	260.2	233.6	206.9	179.1	149.0	117.9	92.3
65°	414.8	380.4	348.1	318.1	288.0	259.1	229.1	199.1	165.7	130.1	100.1
62.5°	462.7	424.8	387.0	349.2	315.9	283.6	251.3	218.0	181.3	143.5	107.9
60°	513.8	470.4	427.1	384.8	343.7	308.1	272.5	236.9	198.0	155.7	115.7
57.5°	570.5	518.3	469.3	421.5	374.8	332.5	293.6	255.8	212.4	167.9	124.6
55°	635.0	570.5	512.7	459.3	408.2	357.0	314.7	275.8	229.1	180.2	134.6
52.5°	702.9	628.4	558.3	498.2	443.8	385.9	334.8	291.4	245.8	192.4	143.5
50°	781.8	687.3	609.5	536.1	474.9	414.8	355.9	309.2	262.5	206.9	152.4
47.5°	863.0	758.5	660.6	580.5	508.3	442.6	380.4	324.7	278.0	220.2	161.3
45°	957.6	826.3	718.5	623.9	540.5	471.6	404.8	341.4	291.4	233.6	170.2
42.5°	1048.8	906.4	778.5	671.7	577.2	499.4	427.1	359.2	304.7	246.9	177.9
40°	1156.6	986.5	836.3	717.3	613.9	526.1	449.3	378.1	317.0	259.1	185.7
37.5°	1260.1	1067.7	906.4	767.4	649.5	552.7	471.6	395.9	328.1	271.4	195.7
35°	1362.4	1157.8	973.1	814.1	686.2	582.8	493.8	412.6	339.2	281.4	204.6
32.5°	1460.3	1242.3	1041.0	866.4	726.2	610.6	513.8	428.2	350.3	290.3	213.5
30°	1551.5	1322.4	1107.7	919.8	762.9	636.2	532.7	443.8	363.7	298.1	222.4
27.5°	1634.9	1400.2	1174.4	969.8	797.4	659.5	552.7	458.2	374.8	305.8	230.2
25°	1710.5	1470.3	1235.6	1015.4	828.6	685.1	571.6	472.7	384.8	312.5	236.9
22.5°	1781.7	1534.8	1291.2	1061.0	866.4	710.7	589.4	486.0	394.8	319.2	243.6
20°	1844.0	1593.7	1344.6	1106.6	899.7	734.0	605.0	498.2	403.7	323.6	250.2
17.5°	1894.0	1646.0	1392.4	1146.6	928.7	754.0	618.4	509.4	411.5	329.2	254.7
15°	1938.5	1690.5	1432.5	1181.1	954.2	770.7	630.6	518.3	418.2	332.5	260.2
12.5°	1976.3	1728.3	1466.9	1211.1	976.5	785.2	640.6	524.9	423.7	335.9	263.6
10°	2007.4	1758.3	1495.9	1234.5	994.3	796.3	648.4	531.6	428.2	339.2	266.9
7.5°	2030.8	1780.6	1517.0	1254.5	1008.7	804.1	655.1	536.1	432.6	341.4	272.5
5°	2048.6	1799.5	1533.7	1267.9	1019.8	815.2	662.8	541.6	437.1	343.7	272.5
2.5°	2061.9	1815.0	1547.0	1279.0	1028.7	813.0	662.8	540.5	437.1	343.7	271.4
0°	2059.7	1816.2	1545.9	1279.0	1028.7	810.8	662.8	539.4	437.1	343.7	271.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.8	5.6	2.2	0.0
85°	16.7	11.1	5.6	0.0
82.5°	24.5	15.6	7.8	0.0
80°	32.3	21.1	10.0	0.0
77.5°	41.1	26.7	13.3	0.0
75°	48.9	31.1	15.6	0.0
72.5°	56.7	36.7	17.8	0.0
70°	63.4	41.1	20.0	0.0
67.5°	70.1	46.7	23.4	0.0
65°	75.6	51.2	25.6	0.0
62.5°	80.1	56.7	27.8	0.0
60°	85.6	61.2	30.0	0.0
57.5°	90.1	64.5	32.3	0.0
55°	94.5	66.7	34.5	0.0
52.5°	99.0	70.1	36.7	0.0
50°	103.4	73.4	38.9	0.0
47.5°	107.9	75.6	40.0	0.0
45°	114.6	79.0	42.3	0.0
42.5°	120.1	81.2	44.5	0.0
40°	125.7	83.4	45.6	0.0
37.5°	131.2	85.6	47.8	0.0
35°	136.8	87.9	48.9	0.0
32.5°	141.2	90.1	50.0	0.0
30°	145.7	92.3	51.2	0.0
27.5°	150.1	93.4	52.3	0.0
25°	153.5	95.6	53.4	0.0
22.5°	156.8	96.8	54.5	0.0
20°	159.0	97.9	55.6	0.0
17.5°	162.4	99.0	56.7	0.0
15°	163.5	100.1	58.9	0.0
12.5°	165.7	101.2	58.9	0.0
10°	166.8	102.3	58.9	0.0
7.5°	169.0	102.3	58.9	0.0
5°	167.9	102.3	58.9	0.0
2.5°	167.9	102.3	58.9	0.0
0°	166.8	102.3	58.9	0.0

(END OF REPORT)