

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: P628152

Luminaire Tested: **IFLD-S-SA2C-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628152
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10775 lumens	Max Intensity:	3512.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	99.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

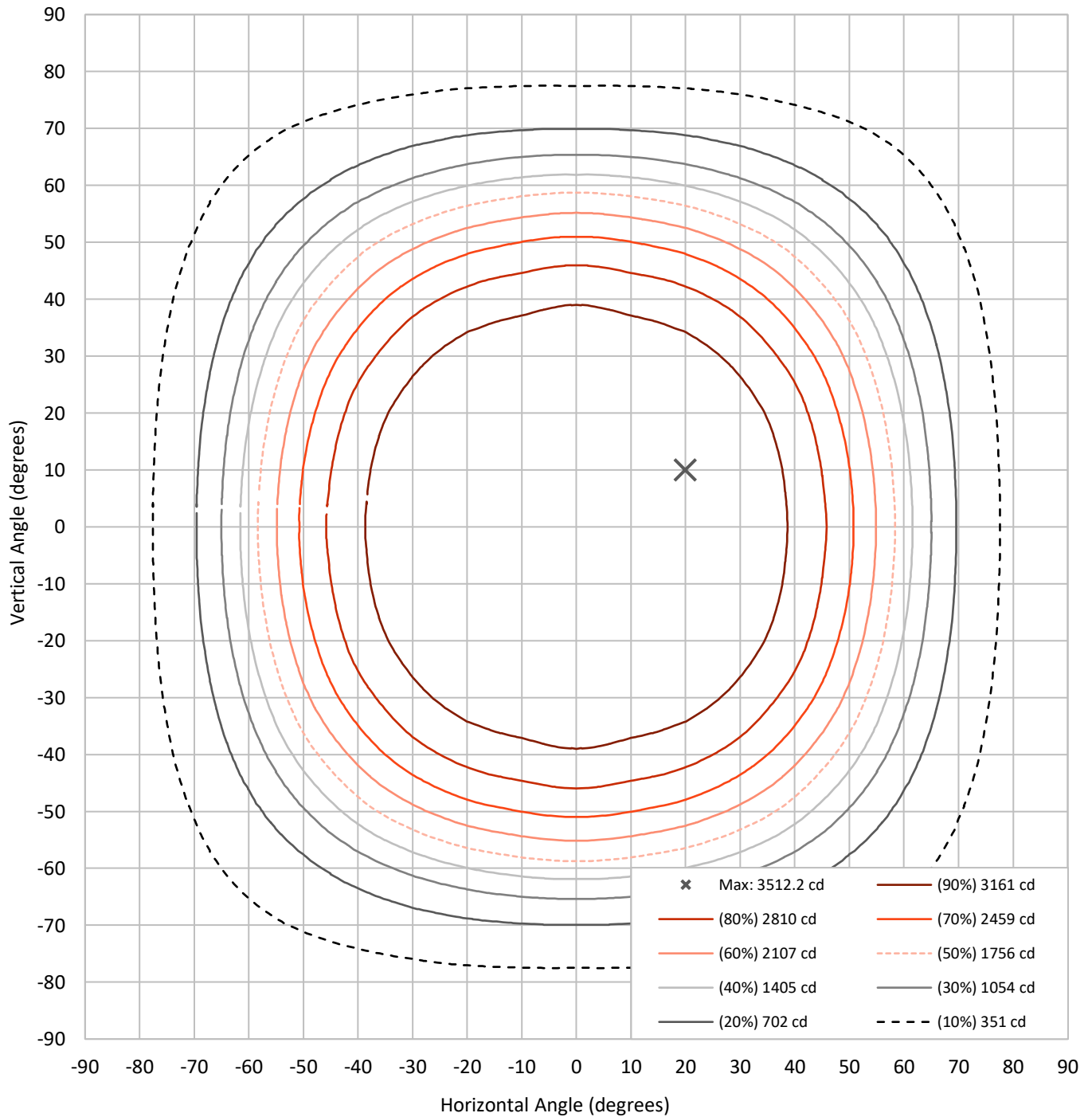
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6611.8 lumens	Field Lumens:	7926.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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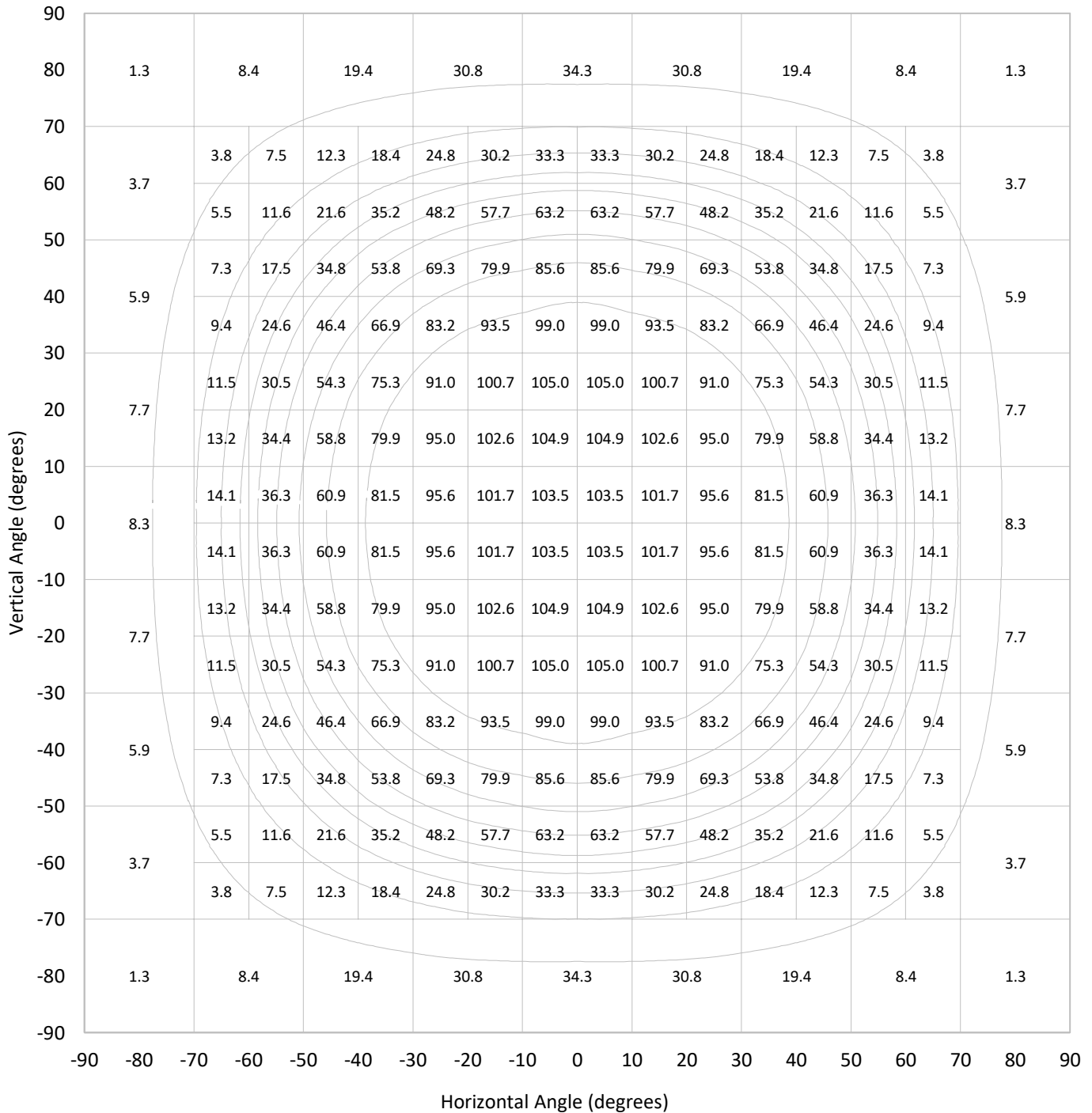
Iso-Candela Plot





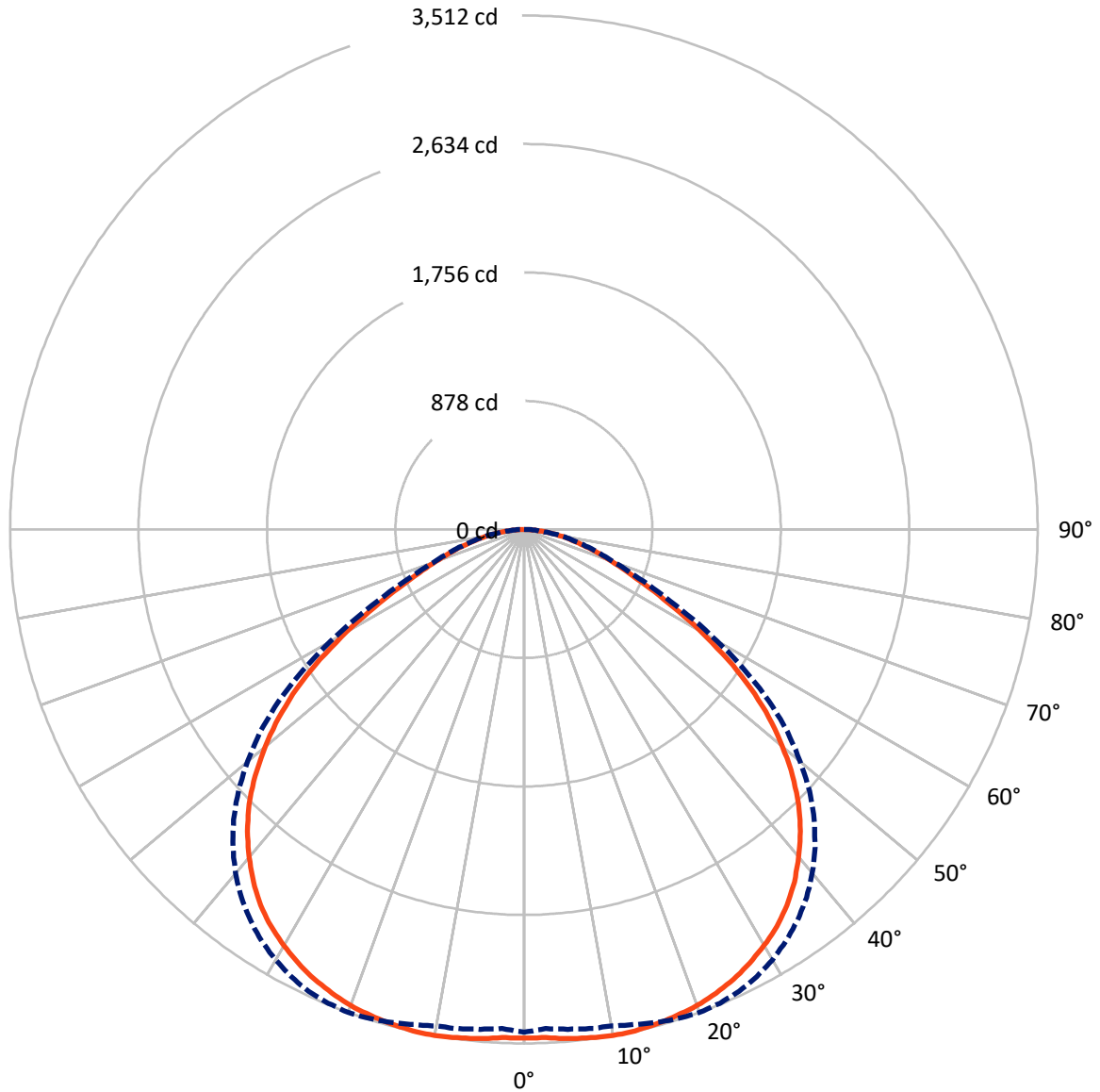
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Lumen Table



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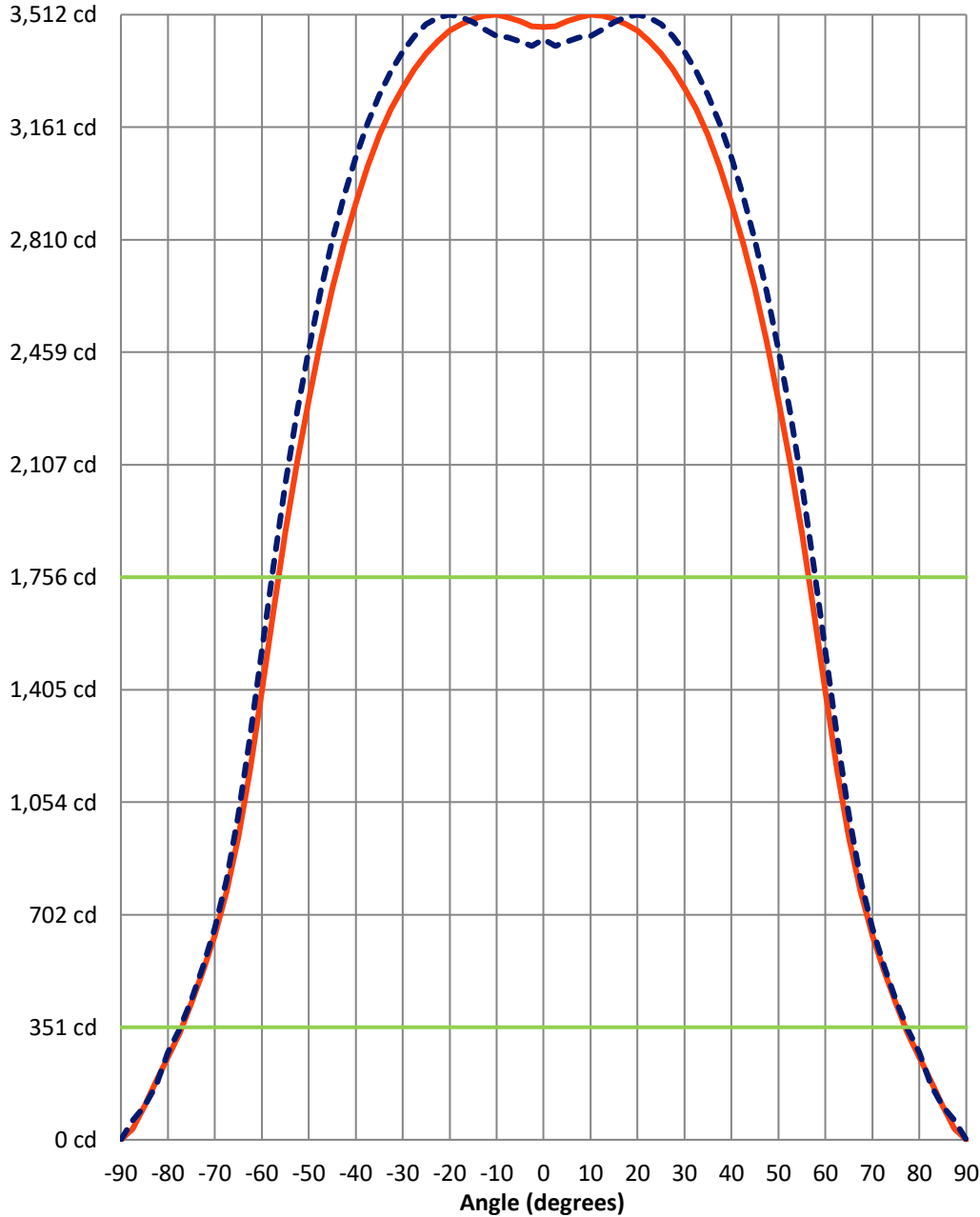
Luminous Intensity Polar Plot



— 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: 6611.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7926.4
 Efficiency: 73.6%

Spill:
 Lumens: 2848.6
 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°	28.3	30.6	31.7	32.9	34.0	35.1	36.3	35.1	34.0	34.0	32.9
85°	76.0	78.2	79.4	87.3	95.2	99.8	105.4	104.3	104.3	103.2	102.0
82.5°	151.9	158.7	164.4	172.3	176.9	183.7	188.2	184.8	182.5	178.0	174.6
80°	269.8	272.1	273.2	274.4	268.7	267.6	265.3	261.9	257.4	251.7	246.0
77.5°	343.5	345.8	348.0	345.8	344.6	343.5	340.1	336.7	332.2	327.6	320.8
75°	454.6	454.6	454.6	451.2	448.9	445.5	439.9	434.2	426.3	417.2	407.0
72.5°	572.5	571.4	570.3	563.5	557.8	551.0	543.0	536.2	527.2	517.0	503.4
70°	696.1	698.4	699.5	690.4	683.6	674.6	664.4	651.9	638.3	623.5	604.3
67.5°	866.2	863.9	861.6	849.1	840.1	827.6	812.9	794.7	774.3	751.6	724.4
65°	1077.0	1080.4	1073.6	1061.1	1044.1	1023.7	1001.1	975.0	944.4	910.4	871.8
62.5°	1332.1	1337.8	1329.8	1314.0	1292.4	1265.2	1233.5	1196.1	1154.1	1106.5	1058.9
60°	1622.3	1621.2	1606.5	1584.9	1556.6	1522.6	1487.4	1446.6	1399.0	1343.4	1285.6
57.5°	1888.8	1886.5	1868.3	1846.8	1818.5	1782.2	1744.8	1701.7	1651.8	1592.9	1526.0
55°	2128.0	2125.7	2107.6	2084.9	2055.4	2019.1	1985.1	1944.3	1895.6	1833.2	1761.8
52.5°	2340.0	2341.1	2325.2	2300.3	2268.5	2233.4	2200.5	2159.7	2113.2	2050.9	1981.7
50°	2535.0	2533.8	2516.8	2494.1	2464.7	2430.7	2397.8	2357.0	2308.2	2248.1	2181.2
47.5°	2716.4	2714.1	2694.8	2669.9	2639.3	2609.8	2579.2	2542.9	2491.9	2431.8	2364.9
45°	2868.3	2863.7	2844.5	2820.7	2791.2	2765.1	2737.9	2710.7	2656.3	2600.7	2537.2
42.5°	2998.6	2997.5	2978.2	2954.4	2925.0	2902.3	2877.3	2843.3	2798.0	2747.0	2684.6
40°	3123.4	3114.3	3095.0	3072.3	3045.1	3025.9	3000.9	2966.9	2922.7	2872.8	2812.7
37.5°	3216.3	3217.5	3197.0	3172.1	3148.3	3130.2	3107.5	3075.7	3037.2	2988.4	2928.4
35°	3304.7	3299.1	3282.1	3260.5	3239.0	3218.6	3194.8	3167.6	3135.8	3090.5	3033.8
32.5°	3362.6	3370.5	3350.1	3327.4	3315.0	3299.1	3274.1	3245.8	3217.5	3172.1	3121.1
30°	3426.1	3419.3	3403.4	3384.1	3375.0	3364.8	3343.3	3316.1	3283.2	3242.4	3194.8
27.5°	3470.3	3466.9	3447.6	3429.5	3424.9	3415.9	3398.8	3375.0	3342.2	3302.5	3258.3
25°	3489.5	3491.8	3473.7	3463.5	3463.5	3457.8	3444.2	3423.8	3390.9	3354.6	3311.6
22.5°	3498.6	3496.3	3483.9	3481.6	3487.3	3482.7	3477.1	3458.9	3429.5	3400.0	3363.7
20°	3504.3	3488.4	3477.1	3486.1	3492.9	3491.8	3487.3	3475.9	3462.3	3437.4	3405.6
17.5°	3491.8	3481.6	3468.0	3481.6	3496.3	3497.5	3492.9	3486.1	3482.7	3466.9	3438.5
15°	3461.2	3453.3	3455.5	3469.1	3486.1	3491.8	3495.2	3503.1	3498.6	3486.1	3461.2
12.5°	3440.8	3430.6	3440.8	3454.4	3463.5	3466.9	3494.1	3508.8	3508.8	3497.5	3481.6
10°	3435.1	3414.7	3428.3	3440.8	3445.3	3465.7	3488.4	3504.3	3512.2	3503.1	3482.7
7.5°	3423.8	3410.2	3415.9	3421.5	3447.6	3462.3	3474.8	3491.8	3503.1	3502.0	3483.9
5°	3418.1	3401.1	3403.4	3427.2	3445.3	3455.5	3460.1	3474.8	3491.8	3495.2	3481.6
2.5°	3403.4	3395.4	3412.5	3414.7	3428.3	3436.3	3440.8	3454.4	3475.9	3483.9	3478.2
0°	3395.4	3384.1	3372.8	3381.8	3404.5	3421.5	3428.3	3448.7	3473.7	3481.6	3469.1



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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°	31.7	30.6	29.5	28.3	29.5	29.5	29.5	28.3	29.5	28.3	28.3
85°	98.6	94.1	90.7	86.2	81.6	78.2	73.7	69.2	68.0	66.9	64.6
82.5°	170.1	164.4	158.7	151.9	145.1	137.2	129.2	120.2	117.9	115.6	112.2
80°	239.2	231.3	223.3	215.4	208.6	200.7	191.6	181.4	174.6	168.9	162.1
77.5°	311.8	300.4	289.1	275.5	267.6	259.6	250.5	240.3	230.1	221.1	210.9
75°	394.5	382.1	370.7	357.1	342.4	327.6	312.9	299.3	284.6	271.0	257.4
72.5°	486.4	468.2	450.1	433.1	414.9	396.8	377.5	359.4	341.2	323.1	303.8
70°	582.7	560.0	537.4	514.7	490.9	467.1	444.4	421.7	399.1	375.3	353.7
67.5°	696.1	670.0	640.5	608.8	573.7	543.0	513.6	486.4	459.2	431.9	404.7
65°	837.8	801.5	761.8	718.8	678.0	637.1	594.1	553.2	521.5	489.8	459.2
62.5°	1012.4	961.4	905.8	850.3	800.4	747.1	697.2	643.9	594.1	548.7	511.3
60°	1221.0	1151.8	1083.8	1012.4	943.2	870.7	807.2	741.4	679.1	623.5	569.1
57.5°	1451.1	1370.6	1289.0	1201.7	1107.6	1022.6	936.4	850.3	776.6	702.9	641.7
55°	1684.7	1599.7	1507.8	1409.2	1306.0	1197.2	1080.4	984.1	883.2	797.0	717.6
52.5°	1906.9	1818.5	1723.2	1632.5	1509.0	1384.3	1256.1	1129.2	1011.3	901.3	804.9
50°	2105.3	2019.1	1927.3	1821.9	1707.4	1574.7	1431.9	1289.0	1149.6	1020.3	900.2
47.5°	2286.7	2202.8	2111.0	2005.5	1901.2	1753.8	1609.9	1452.3	1297.0	1148.4	1007.9
45°	2456.7	2371.7	2276.5	2175.6	2055.4	1923.9	1775.4	1616.7	1450.0	1283.4	1121.2
42.5°	2610.9	2525.9	2429.5	2325.2	2206.2	2075.8	1931.8	1772.0	1604.2	1422.8	1244.8
40°	2745.8	2663.1	2570.1	2461.3	2350.2	2213.0	2071.3	1919.4	1745.9	1563.4	1367.2
37.5°	2863.7	2786.6	2694.8	2587.1	2469.2	2346.8	2200.5	2048.6	1892.2	1693.8	1493.1
35°	2968.0	2896.6	2802.5	2700.5	2584.8	2455.6	2318.4	2169.9	2001.0	1815.1	1620.1
32.5°	3058.7	2986.2	2900.0	2798.0	2685.7	2564.4	2423.9	2274.2	2114.4	1925.0	1713.0
30°	3135.8	3065.5	2983.9	2887.5	2779.8	2659.7	2522.5	2371.7	2208.5	2020.3	1810.5
27.5°	3202.7	3135.8	3056.5	2966.9	2863.7	2748.1	2609.8	2457.9	2291.2	2109.8	1900.1
25°	3260.5	3195.9	3122.2	3037.2	2935.2	2821.8	2691.4	2532.7	2366.0	2183.5	1976.0
22.5°	3312.7	3250.3	3176.6	3093.9	3000.9	2887.5	2756.0	2598.5	2429.5	2249.3	2045.2
20°	3359.2	3301.3	3228.8	3143.8	3050.8	2936.3	2805.9	2656.3	2486.2	2309.4	2107.6
17.5°	3396.6	3345.6	3273.0	3183.4	3090.5	2979.4	2852.4	2715.2	2535.0	2360.4	2159.7
15°	3422.7	3372.8	3307.0	3216.3	3125.6	3015.7	2888.7	2747.0	2579.2	2401.2	2202.8
12.5°	3440.8	3387.5	3326.3	3242.4	3151.7	3042.9	2919.3	2779.8	2616.6	2437.5	2240.2
10°	3445.3	3396.6	3335.4	3260.5	3172.1	3066.7	2945.4	2807.1	2647.2	2465.8	2270.8
7.5°	3447.6	3401.1	3345.6	3274.1	3186.8	3084.8	2964.6	2828.6	2669.9	2489.6	2293.5
5°	3446.5	3402.2	3352.4	3283.2	3195.9	3095.0	2977.1	2843.3	2685.7	2505.5	2310.5
2.5°	3443.1	3403.4	3356.9	3290.0	3206.1	3106.3	2989.6	2860.3	2702.8	2519.1	2324.1
0°	3452.1	3418.1	3359.2	3287.7	3208.4	3106.3	2988.4	2862.6	2705.0	2518.0	2323.0



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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°	28.3	27.2	27.2	26.1	24.9	23.8	21.5	20.4	18.1	14.7	11.3
85°	61.2	57.8	54.4	52.2	49.9	47.6	44.2	40.8	36.3	29.5	22.7
82.5°	107.7	100.9	94.1	86.2	79.4	72.6	66.9	61.2	54.4	44.2	34.0
80°	154.2	144.0	133.8	122.4	112.2	100.9	90.7	81.6	72.6	59.0	45.3
77.5°	200.7	187.1	172.3	158.7	144.0	129.2	114.5	102.0	88.4	72.6	56.7
75°	243.7	227.9	214.3	195.0	176.9	157.6	138.3	121.3	104.3	85.0	68.0
72.5°	286.8	266.4	247.1	229.0	208.6	184.8	163.3	141.7	120.2	97.5	77.1
70°	329.9	305.0	281.2	259.6	236.9	213.1	187.1	162.1	136.0	108.8	85.0
67.5°	374.1	345.8	318.6	291.4	265.3	238.1	210.9	182.5	151.9	120.2	94.1
65°	422.9	387.7	354.8	324.2	293.6	264.2	233.5	202.9	168.9	132.6	102.0
62.5°	471.6	433.1	394.5	356.0	322.0	289.1	256.2	222.2	184.8	146.2	110.0
60°	523.8	479.6	435.3	392.3	350.3	314.0	277.8	241.5	201.8	158.7	117.9
57.5°	581.6	528.3	478.4	429.7	382.1	339.0	299.3	260.8	216.5	171.2	127.0
55°	647.3	581.6	522.6	468.2	416.1	363.9	320.8	281.2	233.5	183.7	137.2
52.5°	716.5	640.5	569.1	507.9	452.3	393.4	341.2	297.0	250.5	196.1	146.2
50°	797.0	700.6	621.3	546.4	484.1	422.9	362.8	315.2	267.6	210.9	155.3
47.5°	879.8	773.2	673.4	591.8	518.1	451.2	387.7	331.0	283.4	224.5	164.4
45°	976.1	842.3	732.4	636.0	551.0	480.7	412.7	348.0	297.0	238.1	173.5
42.5°	1069.1	924.0	793.6	684.8	588.4	509.0	435.3	366.2	310.6	251.7	181.4
40°	1179.1	1005.6	852.5	731.2	625.8	536.2	458.0	385.5	323.1	264.2	189.3
37.5°	1284.5	1088.4	924.0	782.3	662.1	563.5	480.7	403.6	334.4	276.6	199.5
35°	1388.8	1180.2	992.0	829.9	699.5	594.1	503.4	420.6	345.8	286.8	208.6
32.5°	1488.6	1266.3	1061.1	883.2	740.3	622.4	523.8	436.5	357.1	295.9	217.7
30°	1581.5	1348.0	1129.2	937.6	777.7	648.5	543.0	452.3	370.7	303.8	226.7
27.5°	1666.5	1427.3	1197.2	988.6	812.9	672.3	563.5	467.1	382.1	311.8	234.7
25°	1743.6	1498.8	1259.5	1035.1	844.6	698.4	582.7	481.8	392.3	318.6	241.5
22.5°	1816.2	1564.5	1316.2	1081.6	883.2	724.4	600.9	495.4	402.5	325.4	248.3
20°	1879.7	1624.6	1370.6	1128.0	917.2	748.2	616.7	507.9	411.5	329.9	255.1
17.5°	1930.7	1677.9	1419.4	1168.8	946.6	768.7	630.3	519.2	419.5	335.6	259.6
15°	1976.0	1723.2	1460.2	1204.0	972.7	785.7	642.8	528.3	426.3	339.0	265.3
12.5°	2014.6	1761.8	1495.4	1234.6	995.4	800.4	653.0	535.1	431.9	342.4	268.7
10°	2046.3	1792.4	1524.8	1258.4	1013.5	811.7	660.9	541.9	436.5	345.8	272.1
7.5°	2070.1	1815.1	1546.4	1278.8	1028.3	819.7	667.8	546.4	441.0	348.0	277.8
5°	2088.3	1834.3	1563.4	1292.4	1039.6	831.0	675.7	552.1	445.5	350.3	277.8
2.5°	2101.9	1850.2	1577.0	1303.8	1048.7	828.7	675.7	551.0	445.5	350.3	276.6
0°	2099.6	1851.3	1575.8	1303.8	1048.7	826.5	675.7	549.8	445.5	350.3	276.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.9	5.7	2.3	0.0
85°	17.0	11.3	5.7	0.0
82.5°	24.9	15.9	7.9	0.0
80°	32.9	21.5	10.2	0.0
77.5°	41.9	27.2	13.6	0.0
75°	49.9	31.7	15.9	0.0
72.5°	57.8	37.4	18.1	0.0
70°	64.6	41.9	20.4	0.0
67.5°	71.4	47.6	23.8	0.0
65°	77.1	52.2	26.1	0.0
62.5°	81.6	57.8	28.3	0.0
60°	87.3	62.4	30.6	0.0
57.5°	91.8	65.8	32.9	0.0
55°	96.4	68.0	35.1	0.0
52.5°	100.9	71.4	37.4	0.0
50°	105.4	74.8	39.7	0.0
47.5°	110.0	77.1	40.8	0.0
45°	116.8	80.5	43.1	0.0
42.5°	122.4	82.8	45.3	0.0
40°	128.1	85.0	46.5	0.0
37.5°	133.8	87.3	48.7	0.0
35°	139.4	89.6	49.9	0.0
32.5°	144.0	91.8	51.0	0.0
30°	148.5	94.1	52.2	0.0
27.5°	153.1	95.2	53.3	0.0
25°	156.5	97.5	54.4	0.0
22.5°	159.9	98.6	55.6	0.0
20°	162.1	99.8	56.7	0.0
17.5°	165.5	100.9	57.8	0.0
15°	166.7	102.0	60.1	0.0
12.5°	168.9	103.2	60.1	0.0
10°	170.1	104.3	60.1	0.0
7.5°	172.3	104.3	60.1	0.0
5°	171.2	104.3	60.1	0.0
2.5°	171.2	104.3	60.1	0.0
0°	170.1	104.3	60.1	0.0

(END OF REPORT)