

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: P628355

Luminaire Tested: **IFLD-S-SA2C-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628355
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10753.1 lumens	Max Intensity:	3505.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	99.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

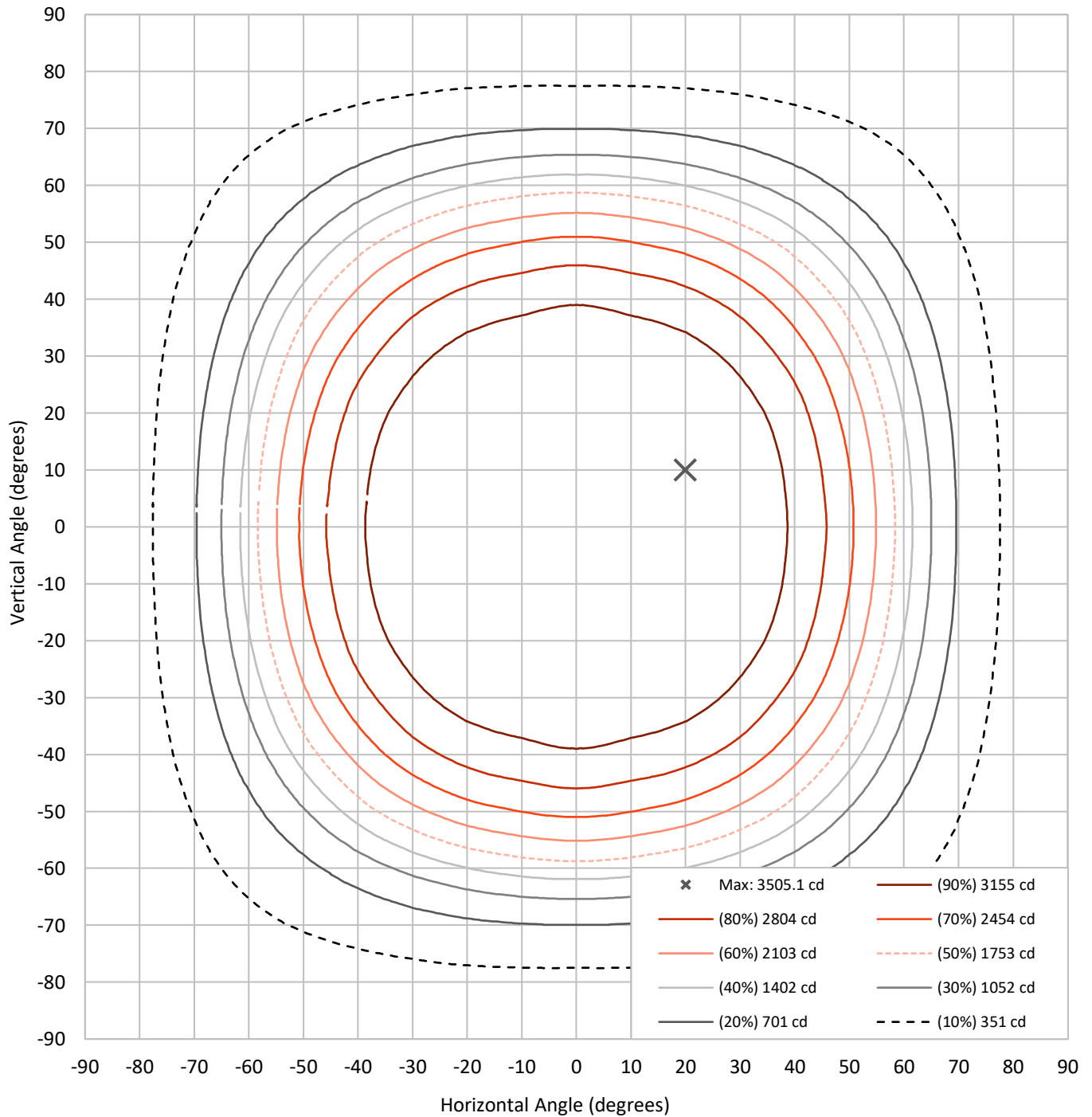
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6598.3 lumens	Field Lumens:	7910.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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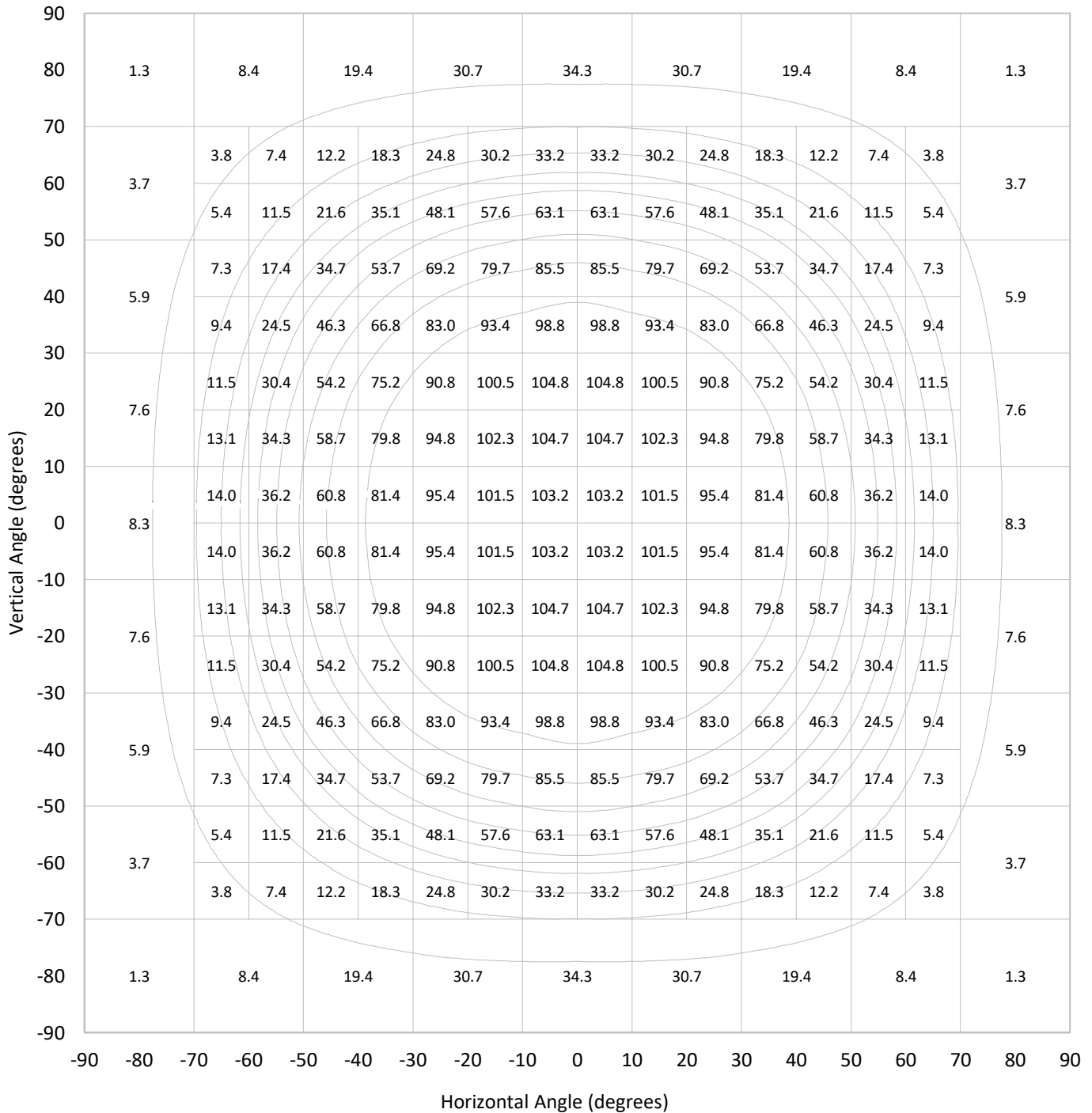
Iso-Candela Plot





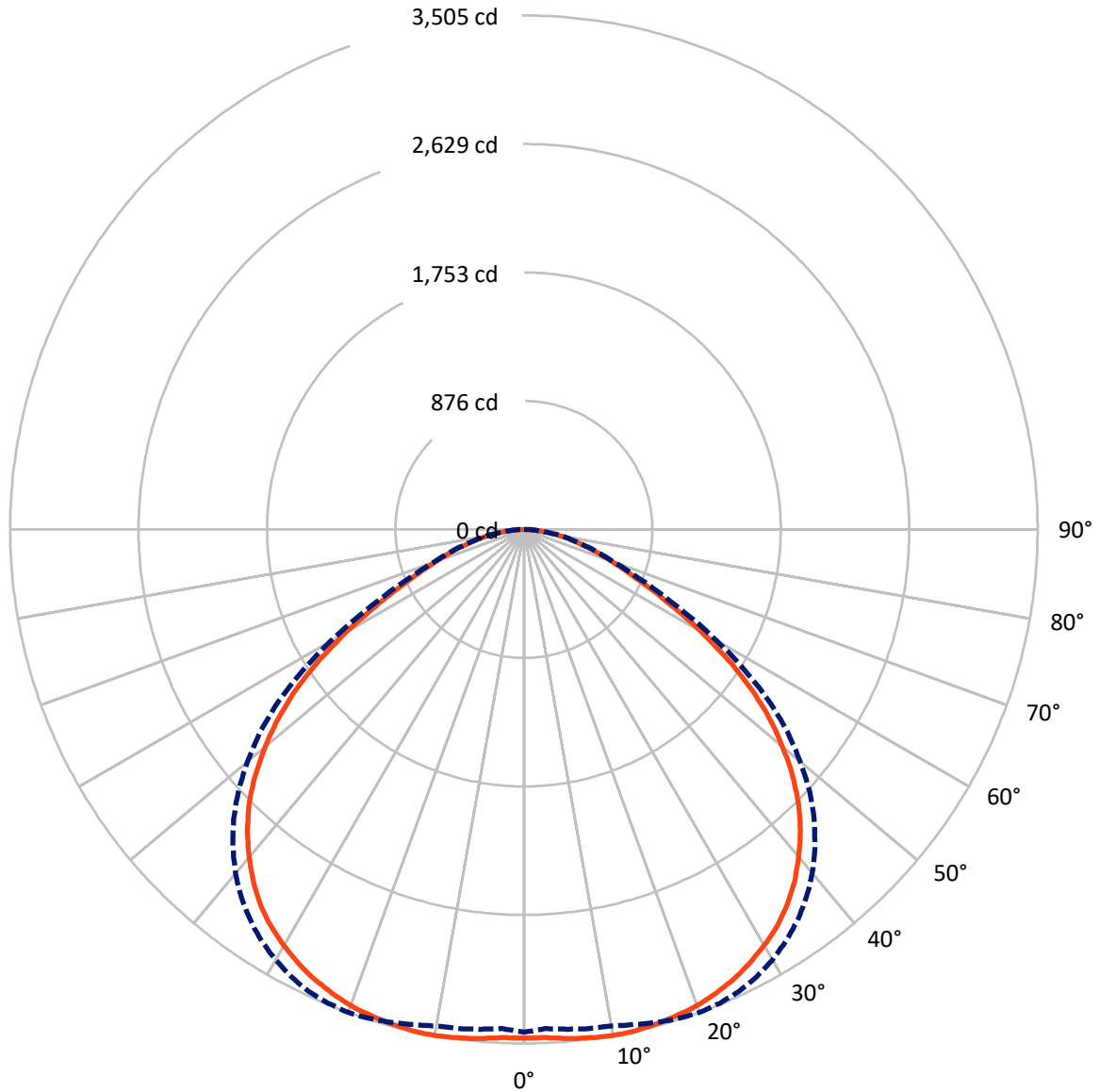
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Lumen Table



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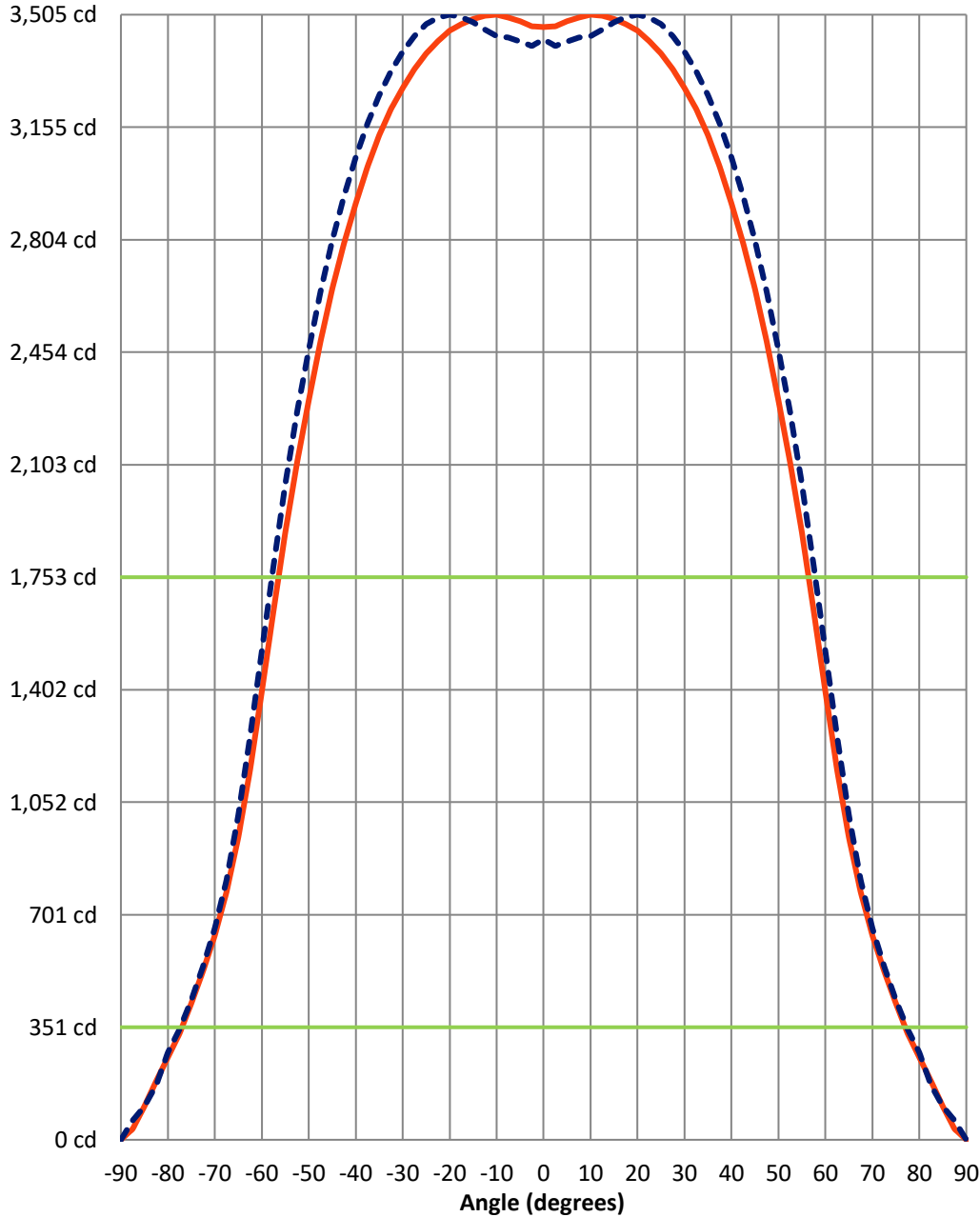
Luminous Intensity Polar Plot



— 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: 6598.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 7910.2
 Efficiency: 73.6%

Spill:
 Lumens: 2842.8
 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°	28.3	30.5	31.7	32.8	33.9	35.1	36.2	35.1	33.9	33.9	32.8
85°	75.8	78.1	79.2	87.1	95.0	99.6	105.2	104.1	104.1	103.0	101.8
82.5°	151.6	158.4	164.1	172.0	176.5	183.3	187.8	184.4	182.2	177.6	174.2
80°	269.3	271.5	272.7	273.8	268.1	267.0	264.7	261.4	256.8	251.2	245.5
77.5°	342.8	345.1	347.3	345.1	343.9	342.8	339.4	336.0	331.5	327.0	320.2
75°	453.7	453.7	453.7	450.3	448.0	444.6	439.0	433.3	425.4	416.4	406.2
72.5°	571.4	570.2	569.1	562.3	556.6	549.9	541.9	535.2	526.1	515.9	502.3
70°	694.7	696.9	698.1	689.0	682.2	673.2	663.0	650.6	637.0	622.3	603.0
67.5°	864.4	862.1	859.9	847.4	838.4	825.9	811.2	793.1	772.7	750.1	723.0
65°	1074.8	1078.2	1071.4	1059.0	1042.0	1021.7	999.0	973.0	942.5	908.5	870.0
62.5°	1329.4	1335.0	1327.1	1311.3	1289.8	1262.6	1231.0	1193.6	1151.8	1104.2	1056.7
60°	1619.0	1617.9	1603.2	1581.7	1553.4	1519.5	1484.4	1443.7	1396.1	1340.7	1283.0
57.5°	1884.9	1882.6	1864.5	1843.0	1814.8	1778.6	1741.2	1698.2	1648.4	1589.6	1522.9
55°	2123.6	2121.4	2103.3	2080.6	2051.2	2015.0	1981.1	1940.3	1891.7	1829.5	1758.2
52.5°	2335.2	2336.3	2320.5	2295.6	2263.9	2228.8	2196.0	2155.3	2108.9	2046.7	1977.7
50°	2529.8	2528.7	2511.7	2489.1	2459.7	2425.7	2392.9	2352.2	2303.5	2243.6	2176.8
47.5°	2710.8	2708.6	2689.3	2664.4	2633.9	2604.5	2573.9	2537.7	2486.8	2426.8	2360.1
45°	2862.4	2857.9	2838.7	2814.9	2785.5	2759.5	2732.3	2705.2	2650.9	2595.4	2532.1
42.5°	2992.5	2991.4	2972.2	2948.4	2919.0	2896.4	2871.5	2837.5	2792.3	2741.4	2679.1
40°	3117.0	3107.9	3088.7	3066.1	3038.9	3019.7	2994.8	2960.9	2916.7	2867.0	2807.0
37.5°	3209.8	3210.9	3190.5	3165.6	3141.9	3123.8	3101.2	3069.5	3031.0	2982.4	2922.4
35°	3298.0	3292.4	3275.4	3253.9	3232.4	3212.0	3188.3	3161.1	3129.4	3084.2	3027.6
32.5°	3355.7	3363.6	3343.3	3320.6	3308.2	3292.4	3267.5	3239.2	3210.9	3165.6	3114.7
30°	3419.1	3412.3	3396.4	3377.2	3368.2	3358.0	3336.5	3309.3	3276.5	3235.8	3188.3
27.5°	3463.2	3459.8	3440.6	3422.5	3417.9	3408.9	3391.9	3368.2	3335.4	3295.8	3251.6
25°	3482.4	3484.7	3466.6	3456.4	3456.4	3450.8	3437.2	3416.8	3384.0	3347.8	3304.8
22.5°	3491.5	3489.2	3476.8	3474.5	3480.2	3475.6	3470.0	3451.9	3422.5	3393.1	3356.9
20°	3497.1	3481.3	3470.0	3479.0	3485.8	3484.7	3480.2	3468.9	3455.3	3430.4	3398.7
17.5°	3484.7	3474.5	3460.9	3474.5	3489.2	3490.4	3485.8	3479.0	3475.6	3459.8	3431.5
15°	3454.2	3446.2	3448.5	3462.1	3479.0	3484.7	3488.1	3496.0	3491.5	3479.0	3454.2
12.5°	3433.8	3423.6	3433.8	3447.4	3456.4	3459.8	3487.0	3501.7	3501.7	3490.4	3474.5
10°	3428.1	3407.8	3421.3	3433.8	3438.3	3458.7	3481.3	3497.1	3505.1	3496.0	3475.6
7.5°	3416.8	3403.2	3408.9	3414.6	3440.6	3455.3	3467.7	3484.7	3496.0	3494.9	3476.8
5°	3411.2	3394.2	3396.4	3420.2	3438.3	3448.5	3453.0	3467.7	3484.7	3488.1	3474.5
2.5°	3396.4	3388.5	3405.5	3407.8	3421.3	3429.3	3433.8	3447.4	3468.9	3476.8	3471.1
0°	3388.5	3377.2	3365.9	3375.0	3397.6	3414.6	3421.3	3441.7	3466.6	3474.5	3462.1



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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	30.5	29.4	28.3	29.4	29.4	29.4	28.3	29.4	28.3	28.3
85°	98.4	93.9	90.5	86.0	81.5	78.1	73.5	69.0	67.9	66.8	64.5
82.5°	169.7	164.1	158.4	151.6	144.8	136.9	129.0	119.9	117.7	115.4	112.0
80°	238.7	230.8	222.9	215.0	208.2	200.3	191.2	181.0	174.2	168.6	161.8
77.5°	311.1	299.8	288.5	274.9	267.0	259.1	250.0	239.9	229.7	220.6	210.4
75°	393.7	381.3	370.0	356.4	341.7	327.0	312.3	298.7	284.0	270.4	256.8
72.5°	485.4	467.3	449.2	432.2	414.1	396.0	376.8	358.7	340.6	322.4	303.2
70°	581.5	558.9	536.3	513.7	489.9	466.1	443.5	420.9	398.3	374.5	353.0
67.5°	694.7	668.7	639.2	607.6	572.5	541.9	512.5	485.4	458.2	431.1	403.9
65°	836.1	799.9	760.3	717.3	676.6	635.8	592.9	552.1	520.4	488.8	458.2
62.5°	1010.3	959.4	904.0	848.5	798.8	745.6	695.8	642.6	592.9	547.6	510.3
60°	1218.5	1149.5	1081.6	1010.3	941.3	868.9	805.6	739.9	677.7	622.3	568.0
57.5°	1448.2	1367.9	1286.4	1199.3	1105.4	1020.5	934.5	848.5	775.0	701.5	640.4
55°	1681.3	1596.4	1504.8	1406.3	1303.4	1194.8	1078.2	982.1	881.4	795.4	716.2
52.5°	1903.0	1814.8	1719.7	1629.2	1505.9	1381.4	1253.6	1126.9	1009.2	899.5	803.3
50°	2101.0	2015.0	1923.4	1818.2	1703.9	1571.5	1429.0	1286.4	1147.2	1018.3	898.3
47.5°	2282.0	2198.3	2106.7	2001.4	1897.4	1750.3	1606.6	1449.3	1294.3	1146.1	1005.8
45°	2451.7	2366.9	2271.8	2171.1	2051.2	1920.0	1771.8	1613.4	1447.1	1280.7	1119.0
42.5°	2605.6	2520.7	2424.6	2320.5	2201.7	2071.6	1927.9	1768.4	1600.9	1419.9	1242.3
40°	2740.2	2657.6	2564.9	2456.3	2345.4	2208.5	2067.1	1915.5	1742.3	1560.2	1364.5
37.5°	2857.9	2781.0	2689.3	2581.8	2464.2	2342.0	2196.0	2044.4	1888.3	1690.3	1490.0
35°	2962.0	2890.7	2796.8	2695.0	2579.6	2450.6	2313.7	2165.5	1996.9	1811.4	1616.8
32.5°	3052.5	2980.1	2894.1	2792.3	2680.3	2559.2	2418.9	2269.6	2110.1	1921.1	1709.5
30°	3129.4	3059.3	2977.8	2881.7	2774.2	2654.3	2517.4	2366.9	2204.0	2016.1	1806.8
27.5°	3196.2	3129.4	3050.2	2960.9	2857.9	2742.5	2604.5	2452.9	2286.6	2105.5	1896.2
25°	3253.9	3189.4	3115.9	3031.0	2929.2	2816.0	2685.9	2527.5	2361.2	2179.1	1972.0
22.5°	3305.9	3243.7	3170.2	3087.6	2994.8	2881.7	2750.4	2593.2	2424.6	2244.7	2041.0
20°	3352.3	3294.6	3222.2	3137.4	3044.6	2930.3	2800.2	2650.9	2481.2	2304.7	2103.3
17.5°	3389.7	3338.7	3266.3	3177.0	3084.2	2973.3	2846.6	2709.7	2529.8	2355.6	2155.3
15°	3415.7	3365.9	3300.3	3209.8	3119.3	3009.5	2882.8	2741.4	2573.9	2396.3	2198.3
12.5°	3433.8	3380.6	3319.5	3235.8	3145.3	3036.7	2913.3	2774.2	2611.3	2432.5	2235.6
10°	3438.3	3389.7	3328.6	3253.9	3165.6	3060.4	2939.4	2801.3	2641.8	2460.8	2266.2
7.5°	3440.6	3394.2	3338.7	3267.5	3180.4	3078.5	2958.6	2822.8	2664.4	2484.5	2288.8
5°	3439.4	3395.3	3345.5	3276.5	3189.4	3088.7	2971.0	2837.5	2680.3	2500.4	2305.8
2.5°	3436.0	3396.4	3350.1	3283.3	3199.6	3100.0	2983.5	2854.5	2697.2	2514.0	2319.4
0°	3445.1	3411.2	3352.3	3281.0	3201.8	3100.0	2982.4	2856.8	2699.5	2512.8	2318.2



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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	26.0	24.9	23.8	21.5	20.4	18.1	14.7	11.3
85°	61.1	57.7	54.3	52.0	49.8	47.5	44.1	40.7	36.2	29.4	22.6
82.5°	107.5	100.7	93.9	86.0	79.2	72.4	66.8	61.1	54.3	44.1	33.9
80°	153.9	143.7	133.5	122.2	112.0	100.7	90.5	81.5	72.4	58.8	45.3
77.5°	200.3	186.7	172.0	158.4	143.7	129.0	114.3	101.8	88.2	72.4	56.6
75°	243.3	227.4	213.8	194.6	176.5	157.3	138.0	121.1	104.1	84.9	67.9
72.5°	286.2	265.9	246.6	228.5	208.2	184.4	162.9	141.4	119.9	97.3	76.9
70°	329.2	304.3	280.6	259.1	236.5	212.7	186.7	161.8	135.8	108.6	84.9
67.5°	373.4	345.1	317.9	290.8	264.7	237.6	210.4	182.2	151.6	119.9	93.9
65°	422.0	386.9	354.1	323.6	293.0	263.6	233.1	202.5	168.6	132.4	101.8
62.5°	470.7	432.2	393.7	355.3	321.3	288.5	255.7	221.8	184.4	146.0	109.7
60°	522.7	478.6	434.5	391.5	349.6	313.4	277.2	241.0	201.4	158.4	117.7
57.5°	580.4	527.2	477.4	428.8	381.3	338.3	298.7	260.2	216.1	170.8	126.7
55°	646.0	580.4	521.6	467.3	415.2	363.2	320.2	280.6	233.1	183.3	136.9
52.5°	715.0	639.2	568.0	506.9	451.4	392.6	340.6	296.4	250.0	195.7	146.0
50°	795.4	699.2	620.0	545.3	483.1	422.0	362.0	314.5	267.0	210.4	155.0
47.5°	878.0	771.6	672.0	590.6	517.0	450.3	386.9	330.4	282.8	224.0	164.1
45°	974.1	840.6	730.9	634.7	549.9	479.7	411.8	347.3	296.4	237.6	173.1
42.5°	1066.9	922.1	792.0	683.4	587.2	508.0	434.5	365.4	310.0	251.2	181.0
40°	1176.7	1003.5	850.8	729.8	624.5	535.2	457.1	384.7	322.4	263.6	188.9
37.5°	1281.9	1086.1	922.1	780.7	660.7	562.3	479.7	402.8	333.8	276.1	199.1
35°	1386.0	1177.8	990.0	828.2	698.1	592.9	502.3	419.7	345.1	286.2	208.2
32.5°	1485.5	1263.8	1059.0	881.4	738.8	621.1	522.7	435.6	356.4	295.3	217.2
30°	1578.3	1345.2	1126.9	935.7	776.1	647.2	541.9	451.4	370.0	303.2	226.3
27.5°	1663.2	1424.4	1194.8	986.6	811.2	670.9	562.3	466.1	381.3	311.1	234.2
25°	1740.1	1495.7	1257.0	1033.0	842.9	696.9	581.5	480.8	391.5	317.9	241.0
22.5°	1812.5	1561.3	1313.6	1079.4	881.4	723.0	599.6	494.4	401.6	324.7	247.8
20°	1875.9	1621.3	1367.9	1125.7	915.3	746.7	615.5	506.9	410.7	329.2	254.6
17.5°	1926.8	1674.5	1416.5	1166.5	944.7	767.1	629.1	518.2	418.6	334.9	259.1
15°	1972.0	1719.7	1457.2	1201.5	970.7	784.1	641.5	527.2	425.4	338.3	264.7
12.5°	2010.5	1758.2	1492.3	1232.1	993.4	798.8	651.7	534.0	431.1	341.7	268.1
10°	2042.2	1788.7	1521.7	1255.8	1011.5	810.1	659.6	540.8	435.6	345.1	271.5
7.5°	2065.9	1811.4	1543.2	1276.2	1026.2	818.0	666.4	545.3	440.1	347.3	277.2
5°	2084.0	1830.6	1560.2	1289.8	1037.5	829.3	674.3	551.0	444.6	349.6	277.2
2.5°	2097.6	1846.4	1573.8	1301.1	1046.5	827.1	674.3	549.9	444.6	349.6	276.1
0°	2095.3	1847.6	1572.6	1301.1	1046.5	824.8	674.3	548.7	444.6	349.6	276.1



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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	15.8	7.9	0.0
80°	32.8	21.5	10.2	0.0
77.5°	41.9	27.2	13.6	0.0
75°	49.8	31.7	15.8	0.0
72.5°	57.7	37.3	18.1	0.0
70°	64.5	41.9	20.4	0.0
67.5°	71.3	47.5	23.8	0.0
65°	76.9	52.0	26.0	0.0
62.5°	81.5	57.7	28.3	0.0
60°	87.1	62.2	30.5	0.0
57.5°	91.6	65.6	32.8	0.0
55°	96.2	67.9	35.1	0.0
52.5°	100.7	71.3	37.3	0.0
50°	105.2	74.7	39.6	0.0
47.5°	109.7	76.9	40.7	0.0
45°	116.5	80.3	43.0	0.0
42.5°	122.2	82.6	45.3	0.0
40°	127.8	84.9	46.4	0.0
37.5°	133.5	87.1	48.7	0.0
35°	139.2	89.4	49.8	0.0
32.5°	143.7	91.6	50.9	0.0
30°	148.2	93.9	52.0	0.0
27.5°	152.7	95.0	53.2	0.0
25°	156.1	97.3	54.3	0.0
22.5°	159.5	98.4	55.4	0.0
20°	161.8	99.6	56.6	0.0
17.5°	165.2	100.7	57.7	0.0
15°	166.3	101.8	60.0	0.0
12.5°	168.6	103.0	60.0	0.0
10°	169.7	104.1	60.0	0.0
7.5°	172.0	104.1	60.0	0.0
5°	170.8	104.1	60.0	0.0
2.5°	170.8	104.1	60.0	0.0
0°	169.7	104.1	60.0	0.0

(END OF REPORT)