

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: P628444

Luminaire Tested: **IFLD-S-SA2E-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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:	11921.5 lumens	Max Intensity:	3885.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	76.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

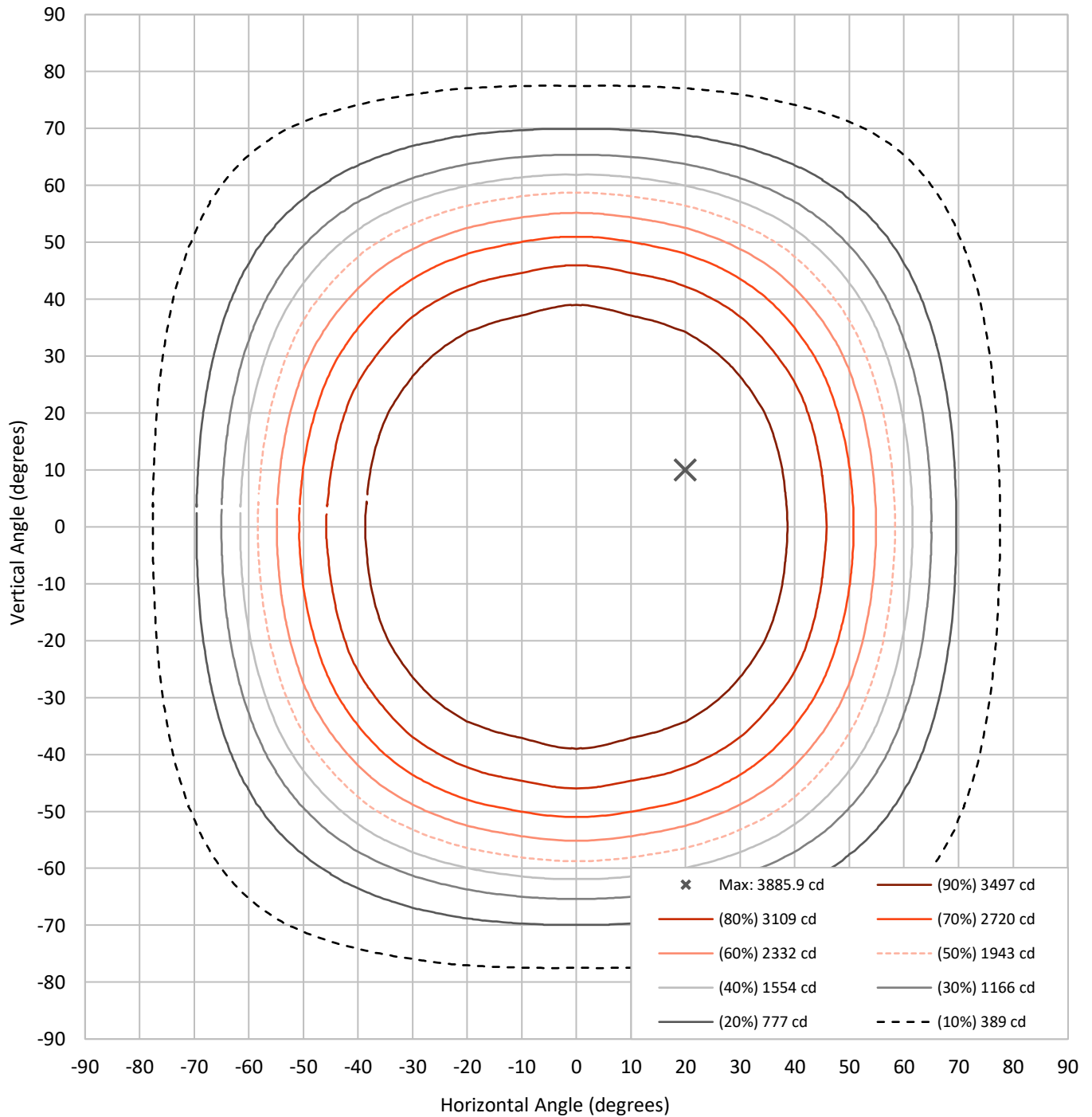
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7315.3 lumens	Field Lumens:	8769.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 156.2
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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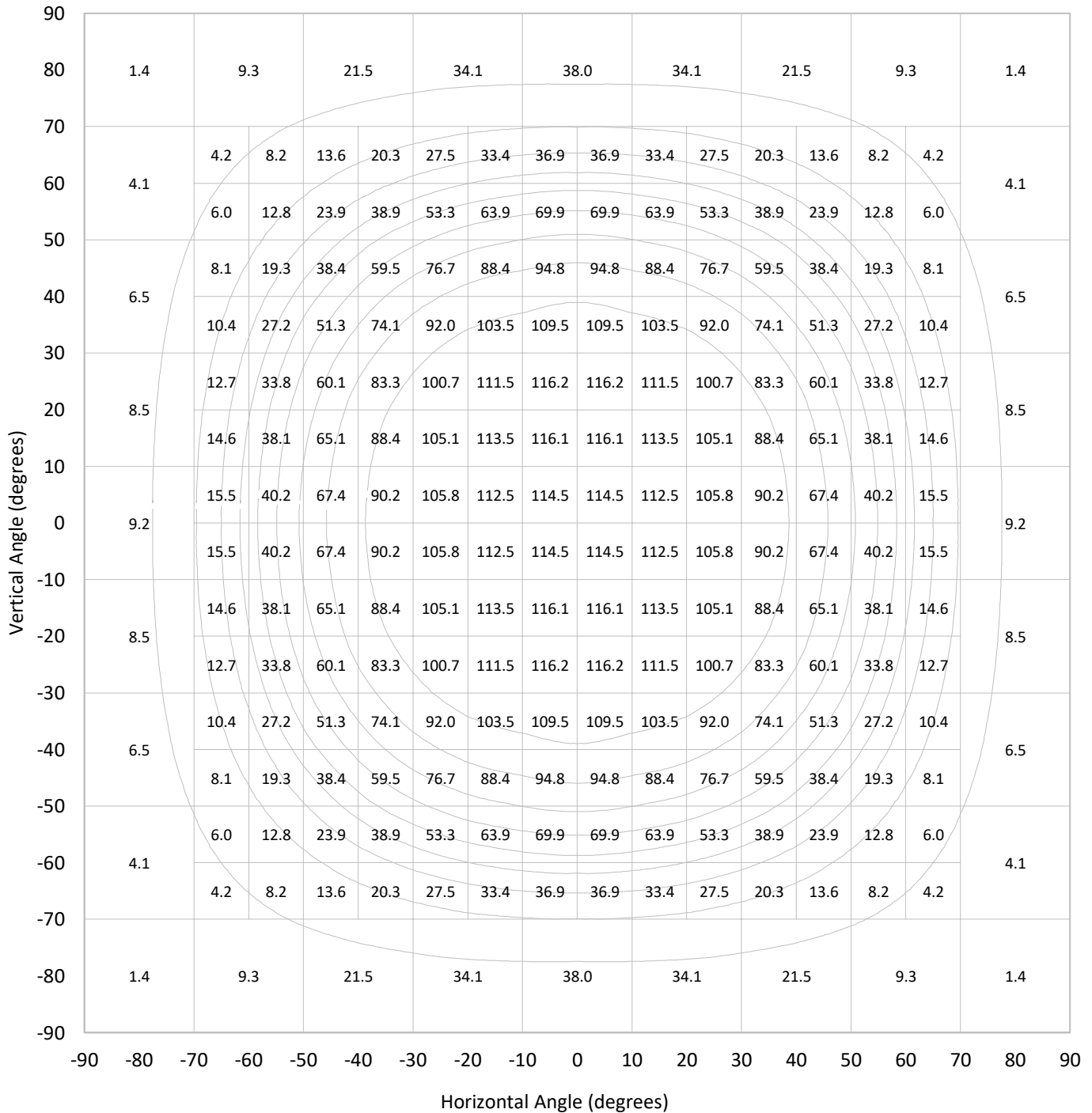
Iso-Candela Plot





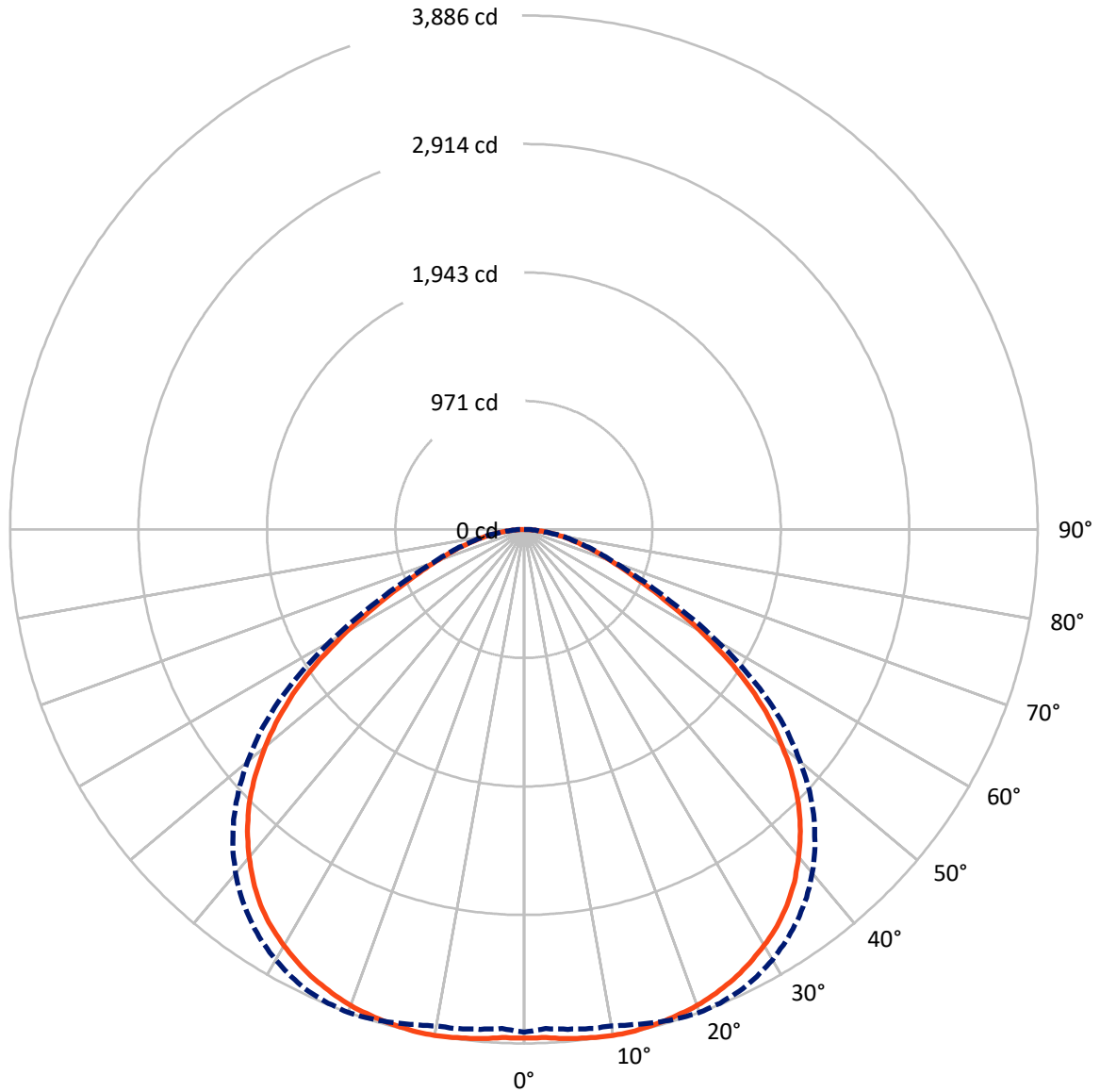
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Lumen Table



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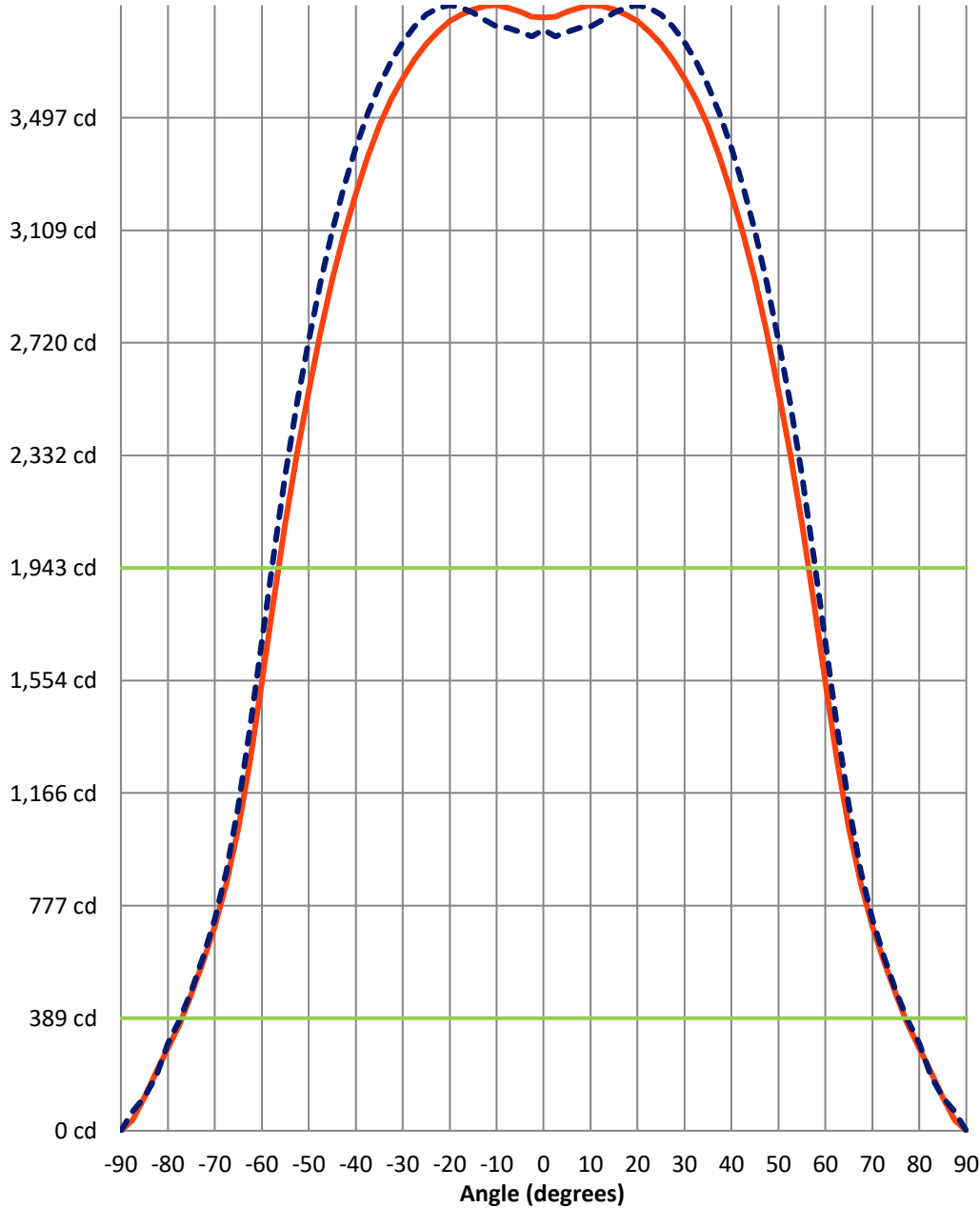
Luminous Intensity Polar Plot



— 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: 7315.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8769.8
 Efficiency: 73.6%

Spill:
 Lumens: 3151.7
 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°	31.4	33.9	35.1	36.4	37.6	38.9	40.1	38.9	37.6	37.6	36.4
85°	84.0	86.5	87.8	96.6	105.4	110.4	116.7	115.4	114.1	114.1	112.9
82.5°	168.1	175.6	181.9	190.7	195.7	203.2	208.2	204.5	201.9	196.9	193.2
80°	298.5	301.0	302.3	303.5	297.3	296.0	293.5	289.8	284.7	278.5	272.2
77.5°	380.1	382.6	385.1	382.6	381.3	380.1	376.3	372.5	367.5	362.5	355.0
75°	503.0	503.0	503.0	499.2	496.7	493.0	486.7	480.4	471.6	461.6	450.3
72.5°	633.4	632.2	630.9	623.4	617.1	609.6	600.8	593.3	583.3	572.0	556.9
70°	770.2	772.7	773.9	763.9	756.4	746.3	735.0	721.2	706.2	689.9	668.6
67.5°	958.3	955.8	953.3	939.5	929.5	915.7	899.4	879.3	856.7	831.6	801.5
65°	1191.6	1195.4	1187.9	1174.1	1155.2	1132.7	1107.6	1078.7	1044.9	1007.2	964.6
62.5°	1473.8	1480.1	1471.3	1453.8	1429.9	1399.8	1364.7	1323.3	1276.9	1224.2	1171.5
60°	1795.0	1793.7	1777.4	1753.6	1722.2	1684.6	1645.7	1600.5	1547.8	1486.4	1422.4
57.5°	2089.7	2087.2	2067.1	2043.3	2012.0	1971.8	1930.4	1882.8	1827.6	1762.3	1688.3
55°	2354.4	2351.9	2331.8	2306.7	2274.1	2234.0	2196.3	2151.2	2097.2	2028.3	1949.2
52.5°	2588.9	2590.2	2572.6	2545.0	2509.9	2471.0	2434.7	2389.5	2338.1	2269.1	2192.6
50°	2804.7	2803.4	2784.6	2759.5	2726.9	2689.3	2652.9	2607.8	2553.8	2487.3	2413.3
47.5°	3005.4	3002.9	2981.6	2954.0	2920.1	2887.5	2853.6	2813.5	2757.0	2690.5	2616.5
45°	3173.5	3168.4	3147.1	3120.8	3088.2	3059.3	3029.2	2999.1	2938.9	2877.4	2807.2
42.5°	3317.7	3316.5	3295.1	3268.8	3236.2	3211.1	3183.5	3145.9	3095.7	3039.3	2970.3
40°	3455.7	3445.7	3424.3	3399.2	3369.1	3347.8	3320.2	3282.6	3233.7	3178.5	3112.0
37.5°	3558.5	3559.8	3537.2	3509.6	3483.3	3463.2	3438.1	3403.0	3360.4	3306.4	3239.9
35°	3656.4	3650.1	3631.3	3607.5	3583.6	3561.1	3534.7	3504.6	3469.5	3419.3	3356.6
32.5°	3720.4	3729.1	3706.6	3681.5	3667.7	3650.1	3622.5	3591.2	3559.8	3509.6	3453.2
30°	3790.6	3783.1	3765.5	3744.2	3734.2	3722.9	3699.0	3668.9	3632.6	3587.4	3534.7
27.5°	3839.5	3835.8	3814.4	3794.4	3789.3	3779.3	3760.5	3734.2	3697.8	3653.9	3605.0
25°	3860.8	3863.4	3843.3	3832.0	3832.0	3825.7	3810.7	3788.1	3751.7	3711.6	3663.9
22.5°	3870.9	3868.4	3854.6	3852.1	3858.3	3853.3	3847.0	3827.0	3794.4	3761.7	3721.6
20°	3877.1	3859.6	3847.0	3857.1	3864.6	3863.4	3858.3	3845.8	3830.7	3803.1	3768.0
17.5°	3863.4	3852.1	3837.0	3852.1	3868.4	3869.6	3864.6	3857.1	3853.3	3835.8	3804.4
15°	3829.5	3820.7	3823.2	3838.3	3857.1	3863.4	3867.1	3875.9	3870.9	3857.1	3829.5
12.5°	3806.9	3795.6	3806.9	3822.0	3832.0	3835.8	3865.9	3882.2	3882.2	3869.6	3852.1
10°	3800.6	3778.1	3793.1	3806.9	3811.9	3834.5	3859.6	3877.1	3885.9	3875.9	3853.3
7.5°	3788.1	3773.0	3779.3	3785.6	3814.4	3830.7	3844.5	3863.4	3875.9	3874.6	3854.6
5°	3781.8	3763.0	3765.5	3791.9	3811.9	3823.2	3828.2	3844.5	3863.4	3867.1	3852.1
2.5°	3765.5	3756.7	3775.5	3778.1	3793.1	3801.9	3806.9	3822.0	3845.8	3854.6	3848.3
0°	3756.7	3744.2	3731.6	3741.7	3766.8	3785.6	3793.1	3815.7	3843.3	3852.1	3838.3



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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°	35.1	33.9	32.6	31.4	32.6	32.6	32.6	31.4	32.6	31.4	31.4
85°	109.1	104.1	100.3	95.3	90.3	86.5	81.5	76.5	75.3	74.0	71.5
82.5°	188.2	181.9	175.6	168.1	160.6	151.8	143.0	133.0	130.5	127.9	124.2
80°	264.7	255.9	247.1	238.3	230.8	222.0	212.0	200.7	193.2	186.9	179.4
77.5°	344.9	332.4	319.9	304.8	296.0	287.2	277.2	265.9	254.6	244.6	233.3
75°	436.5	422.7	410.2	395.1	378.8	362.5	346.2	331.1	314.8	299.8	284.7
72.5°	538.1	518.0	498.0	479.2	459.1	439.0	417.7	397.6	377.6	357.5	336.2
70°	644.7	619.6	594.6	569.5	543.1	516.8	491.7	466.6	441.5	415.2	391.4
67.5°	770.2	741.3	708.7	673.6	634.7	600.8	568.2	538.1	508.0	477.9	447.8
65°	927.0	886.8	842.9	795.2	750.1	704.9	657.3	612.1	577.0	541.9	508.0
62.5°	1120.1	1063.7	1002.2	940.8	885.6	826.6	771.4	712.5	657.3	607.1	565.7
60°	1350.9	1274.4	1199.1	1120.1	1043.6	963.3	893.1	820.3	751.3	689.9	629.7
57.5°	1605.5	1516.5	1426.2	1329.6	1225.5	1131.4	1036.1	940.8	859.2	777.7	710.0
55°	1863.9	1769.9	1668.3	1559.1	1445.0	1324.6	1195.4	1088.8	977.1	881.8	794.0
52.5°	2109.8	2012.0	1906.6	1806.2	1669.5	1531.5	1389.8	1249.3	1118.9	997.2	890.6
50°	2329.3	2234.0	2132.4	2015.7	1889.0	1742.3	1584.2	1426.2	1271.9	1128.9	995.9
47.5°	2530.0	2437.2	2335.6	2218.9	2103.5	1940.5	1781.2	1606.8	1435.0	1270.6	1115.1
45°	2718.1	2624.1	2518.7	2407.1	2274.1	2128.6	1964.3	1788.7	1604.3	1419.9	1240.5
42.5°	2888.7	2794.7	2688.0	2572.6	2440.9	2296.7	2137.4	1960.5	1774.9	1574.2	1377.3
40°	3038.0	2946.4	2843.6	2723.2	2600.2	2448.5	2291.7	2123.6	1931.7	1729.7	1512.7
37.5°	3168.4	3083.2	2981.6	2862.4	2731.9	2596.5	2434.7	2266.6	2093.5	1874.0	1652.0
35°	3283.8	3204.8	3100.7	2987.8	2859.9	2716.9	2565.1	2400.8	2213.9	2008.2	1792.4
32.5°	3384.2	3303.9	3208.6	3095.7	2971.5	2837.3	2681.8	2516.2	2339.3	2129.9	1895.3
30°	3469.5	3391.7	3301.4	3194.8	3075.6	2942.7	2790.9	2624.1	2443.4	2235.2	2003.2
27.5°	3543.5	3469.5	3381.7	3282.6	3168.4	3040.5	2887.5	2719.4	2535.0	2334.3	2102.3
25°	3607.5	3536.0	3454.4	3360.4	3247.5	3122.0	2977.8	2802.2	2617.8	2415.8	2186.3
22.5°	3665.2	3596.2	3514.6	3423.1	3320.2	3194.8	3049.3	2874.9	2688.0	2488.6	2262.8
20°	3716.6	3652.6	3572.3	3478.3	3375.4	3248.7	3104.5	2938.9	2750.8	2555.1	2331.8
17.5°	3758.0	3701.5	3621.3	3522.2	3419.3	3296.4	3155.9	3004.1	2804.7	2611.5	2389.5
15°	3786.8	3731.6	3658.9	3558.5	3458.2	3336.5	3196.0	3039.3	2853.6	2656.7	2437.2
12.5°	3806.9	3748.0	3680.2	3587.4	3487.1	3366.6	3229.9	3075.6	2895.0	2696.8	2478.6
10°	3811.9	3758.0	3690.3	3607.5	3509.6	3393.0	3258.8	3105.7	2928.9	2728.2	2512.4
7.5°	3814.4	3763.0	3701.5	3622.5	3525.9	3413.0	3280.1	3129.6	2954.0	2754.5	2537.5
5°	3813.2	3764.3	3709.1	3632.6	3536.0	3424.3	3293.9	3145.9	2971.5	2772.1	2556.3
2.5°	3809.4	3765.5	3714.1	3640.1	3547.3	3436.9	3307.7	3164.7	2990.3	2787.1	2571.4
0°	3819.4	3781.8	3716.6	3637.6	3549.8	3436.9	3306.4	3167.2	2992.8	2785.9	2570.1



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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°	31.4	30.1	30.1	28.8	27.6	26.3	23.8	22.6	20.1	16.3	12.5
85°	67.7	64.0	60.2	57.7	55.2	52.7	48.9	45.2	40.1	32.6	25.1
82.5°	119.2	111.6	104.1	95.3	87.8	80.3	74.0	67.7	60.2	48.9	37.6
80°	170.6	159.3	148.0	135.5	124.2	111.6	100.3	90.3	80.3	65.2	50.2
77.5°	222.0	207.0	190.7	175.6	159.3	143.0	126.7	112.9	97.8	80.3	62.7
75°	269.7	252.1	237.1	215.7	195.7	174.4	153.0	134.2	115.4	94.1	75.3
72.5°	317.3	294.8	273.4	253.4	230.8	204.5	180.6	156.8	133.0	107.9	85.3
70°	365.0	337.4	311.1	287.2	262.2	235.8	207.0	179.4	150.5	120.4	94.1
67.5°	413.9	382.6	352.5	322.4	293.5	263.4	233.3	201.9	168.1	133.0	104.1
65°	467.9	429.0	392.6	358.7	324.9	292.3	258.4	224.5	186.9	146.8	112.9
62.5°	521.8	479.2	436.5	393.9	356.2	319.9	283.5	245.8	204.5	161.8	121.7
60°	579.5	530.6	481.7	434.0	387.6	347.5	307.3	267.2	223.3	175.6	130.5
57.5°	643.5	584.5	529.3	475.4	422.7	375.0	331.1	288.5	239.6	189.4	140.5
55°	716.2	643.5	578.2	518.0	460.3	402.6	355.0	311.1	258.4	203.2	151.8
52.5°	792.7	708.7	629.7	561.9	500.5	435.3	377.6	328.6	277.2	217.0	161.8
50°	881.8	775.2	687.4	604.6	535.6	467.9	401.4	348.7	296.0	233.3	171.8
47.5°	973.4	855.5	745.1	654.8	573.2	499.2	429.0	366.3	313.6	248.4	181.9
45°	1080.0	932.0	810.3	703.7	609.6	531.8	456.6	385.1	328.6	263.4	191.9
42.5°	1182.8	1022.3	878.0	757.6	651.0	563.2	481.7	405.2	343.7	278.5	200.7
40°	1304.5	1112.6	943.3	809.0	692.4	593.3	506.8	426.5	357.5	292.3	209.5
37.5°	1421.2	1204.2	1022.3	865.5	732.5	623.4	531.8	446.5	370.0	306.1	220.8
35°	1536.6	1305.8	1097.5	918.2	773.9	657.3	556.9	465.4	382.6	317.3	230.8
32.5°	1646.9	1401.1	1174.1	977.1	819.1	688.6	579.5	482.9	395.1	327.4	240.8
30°	1749.8	1491.4	1249.3	1037.3	860.5	717.5	600.8	500.5	410.2	336.2	250.9
27.5°	1843.9	1579.2	1324.6	1093.8	899.4	743.8	623.4	516.8	422.7	344.9	259.6
25°	1929.2	1658.2	1393.6	1145.2	934.5	772.7	644.7	533.1	434.0	352.5	267.2
22.5°	2009.4	1731.0	1456.3	1196.6	977.1	801.5	664.8	548.1	445.3	360.0	274.7
20°	2079.7	1797.5	1516.5	1248.1	1014.8	827.9	682.4	561.9	455.3	365.0	282.2
17.5°	2136.1	1856.4	1570.4	1293.2	1047.4	850.4	697.4	574.5	464.1	371.3	287.2
15°	2186.3	1906.6	1615.6	1332.1	1076.2	869.3	711.2	584.5	471.6	375.0	293.5
12.5°	2229.0	1949.2	1654.5	1366.0	1101.3	885.6	722.5	592.0	477.9	378.8	297.3
10°	2264.1	1983.1	1687.1	1392.3	1121.4	898.1	731.3	599.6	482.9	382.6	301.0
7.5°	2290.4	2008.2	1710.9	1414.9	1137.7	906.9	738.8	604.6	487.9	385.1	307.3
5°	2310.5	2029.5	1729.7	1429.9	1150.2	919.4	747.6	610.9	493.0	387.6	307.3
2.5°	2325.5	2047.1	1744.8	1442.5	1160.3	916.9	747.6	609.6	493.0	387.6	306.1
0°	2323.0	2048.3	1743.5	1442.5	1160.3	914.4	747.6	608.4	493.0	387.6	306.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.8	6.3	2.5	0.0
85°	18.8	12.5	6.3	0.0
82.5°	27.6	17.6	8.8	0.0
80°	36.4	23.8	11.3	0.0
77.5°	46.4	30.1	15.1	0.0
75°	55.2	35.1	17.6	0.0
72.5°	64.0	41.4	20.1	0.0
70°	71.5	46.4	22.6	0.0
67.5°	79.0	52.7	26.3	0.0
65°	85.3	57.7	28.8	0.0
62.5°	90.3	64.0	31.4	0.0
60°	96.6	69.0	33.9	0.0
57.5°	101.6	72.8	36.4	0.0
55°	106.6	75.3	38.9	0.0
52.5°	111.6	79.0	41.4	0.0
50°	116.7	82.8	43.9	0.0
47.5°	121.7	85.3	45.2	0.0
45°	129.2	89.1	47.7	0.0
42.5°	135.5	91.6	50.2	0.0
40°	141.7	94.1	51.4	0.0
37.5°	148.0	96.6	53.9	0.0
35°	154.3	99.1	55.2	0.0
32.5°	159.3	101.6	56.4	0.0
30°	164.3	104.1	57.7	0.0
27.5°	169.3	105.4	59.0	0.0
25°	173.1	107.9	60.2	0.0
22.5°	176.9	109.1	61.5	0.0
20°	179.4	110.4	62.7	0.0
17.5°	183.1	111.6	64.0	0.0
15°	184.4	112.9	66.5	0.0
12.5°	186.9	114.1	66.5	0.0
10°	188.2	115.4	66.5	0.0
7.5°	190.7	115.4	66.5	0.0
5°	189.4	115.4	66.5	0.0
2.5°	189.4	115.4	66.5	0.0
0°	188.2	115.4	66.5	0.0

(END OF REPORT)