

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: P628455

Luminaire Tested: **IFLD-M-SA4A-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628455
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12163.9 lumens	Max Intensity:	3964.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

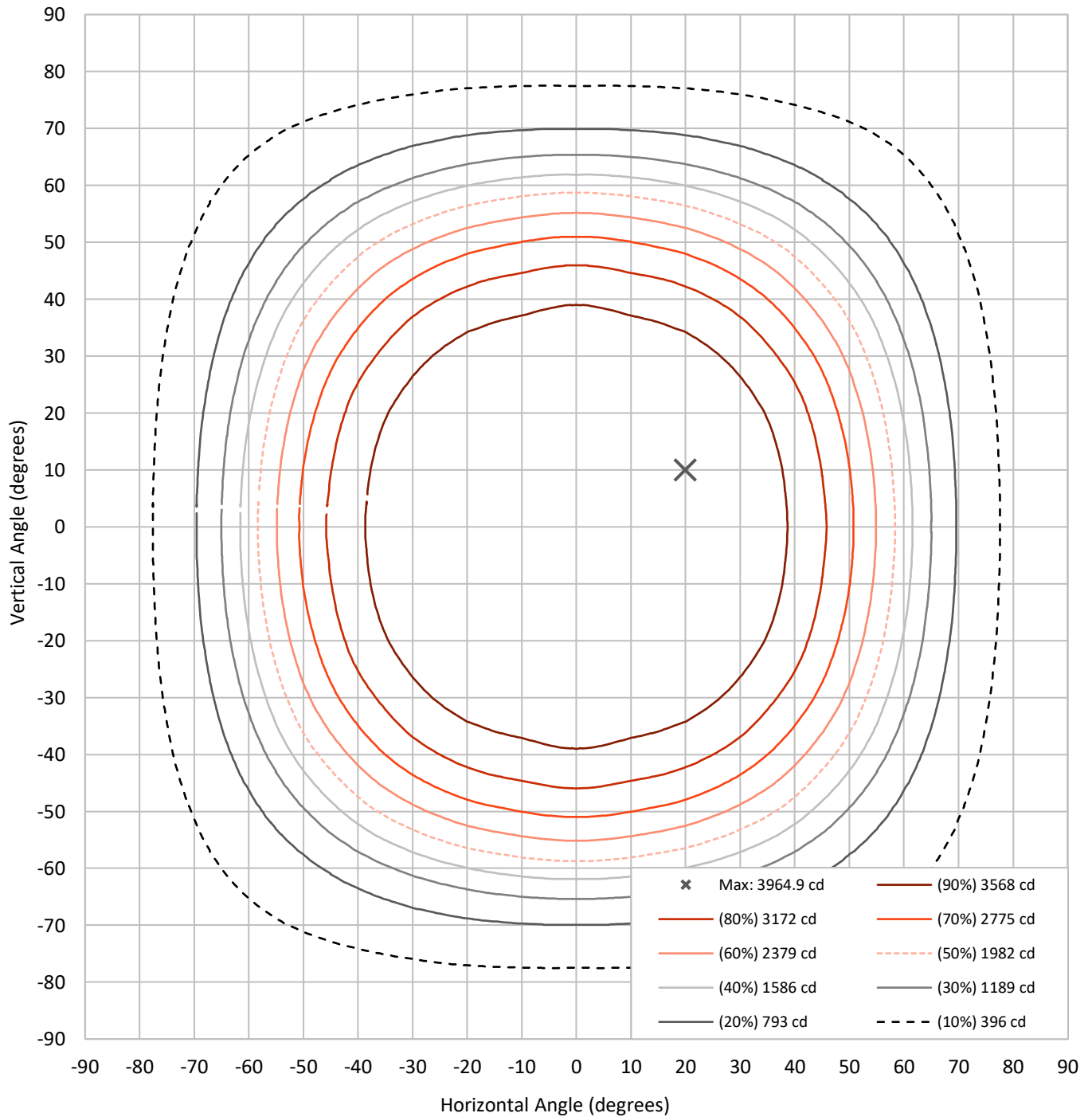
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7464 lumens	Field Lumens:	8948.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 128.6
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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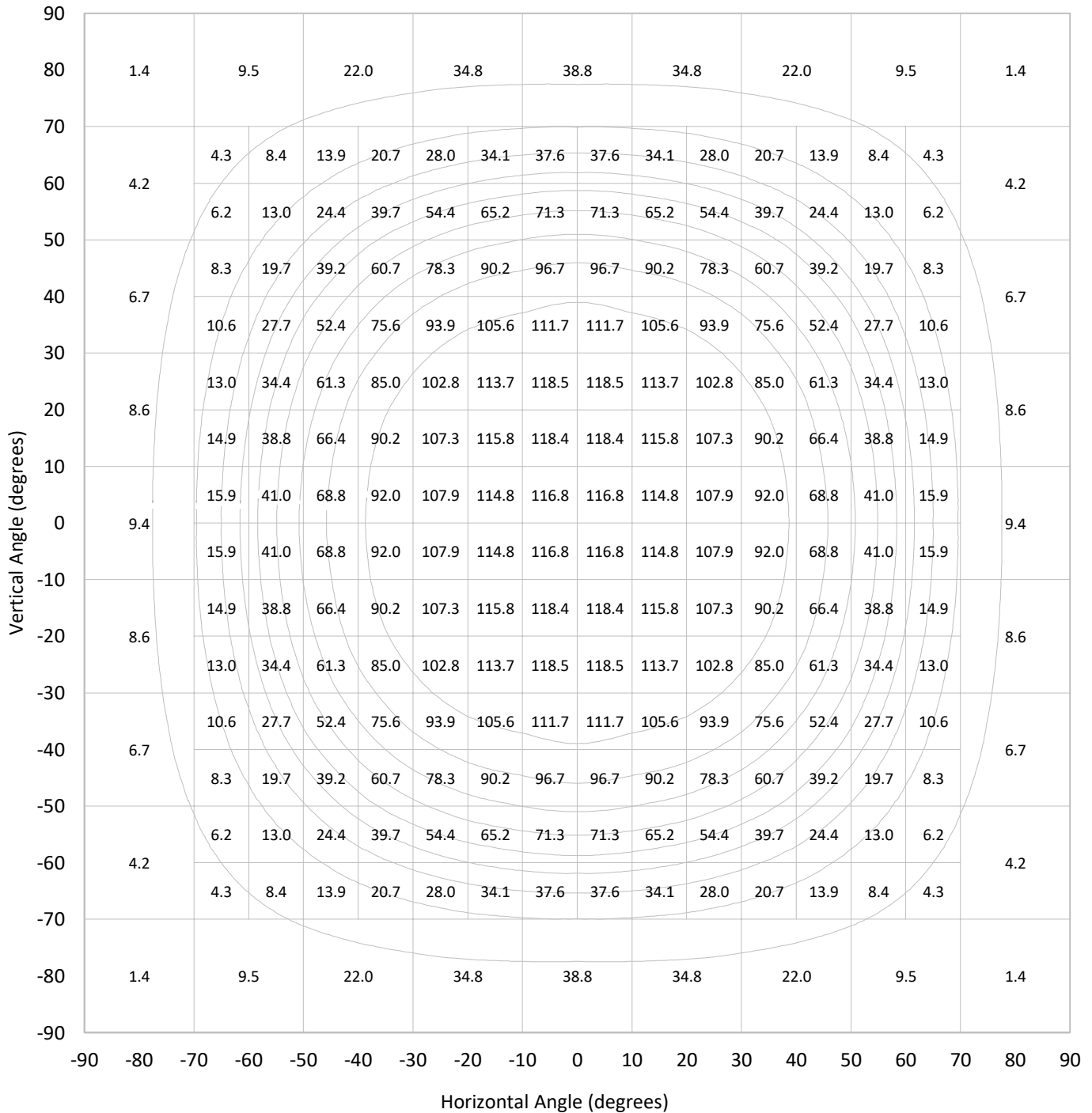
Iso-Candela Plot





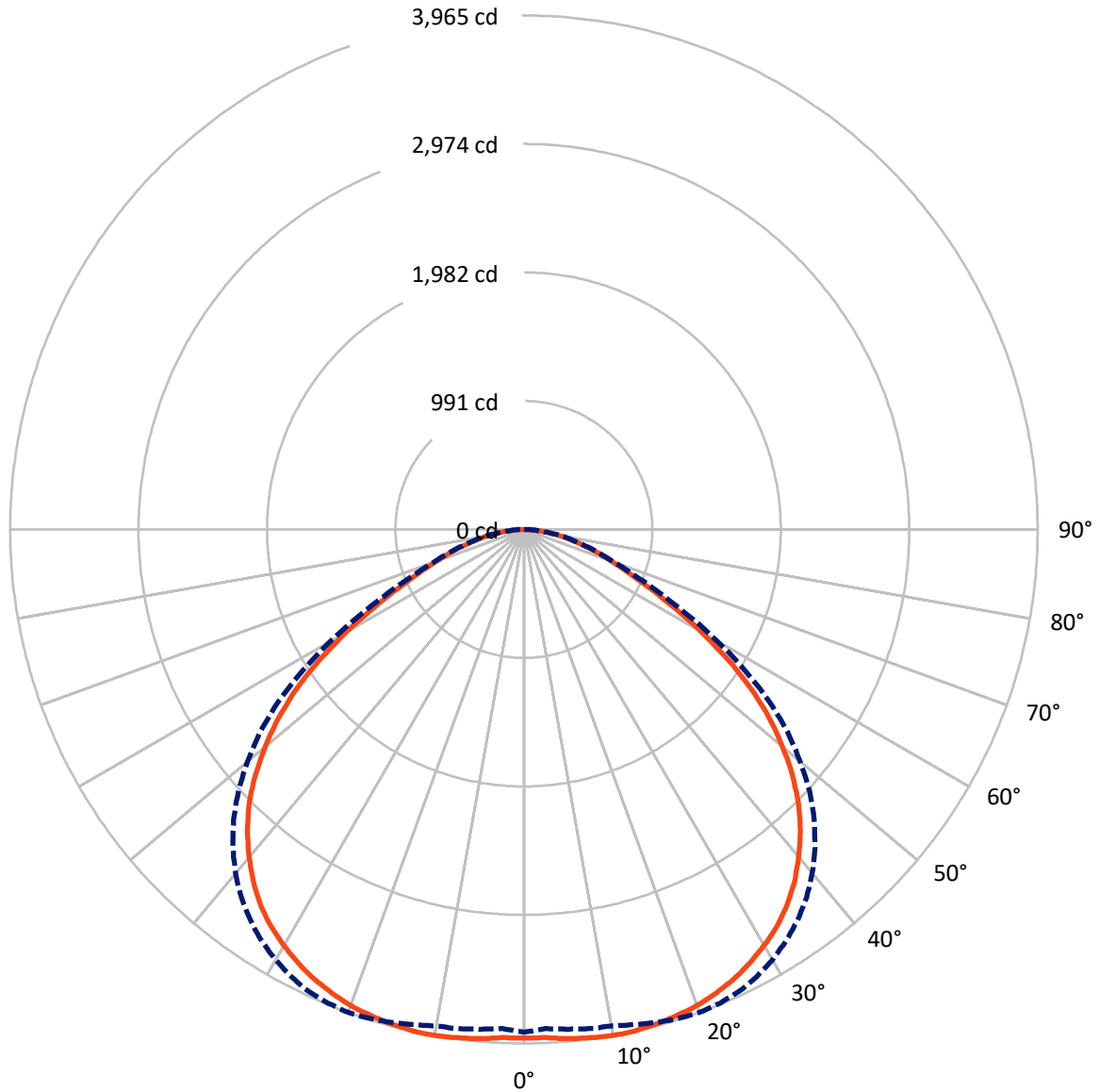
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Lumen Table



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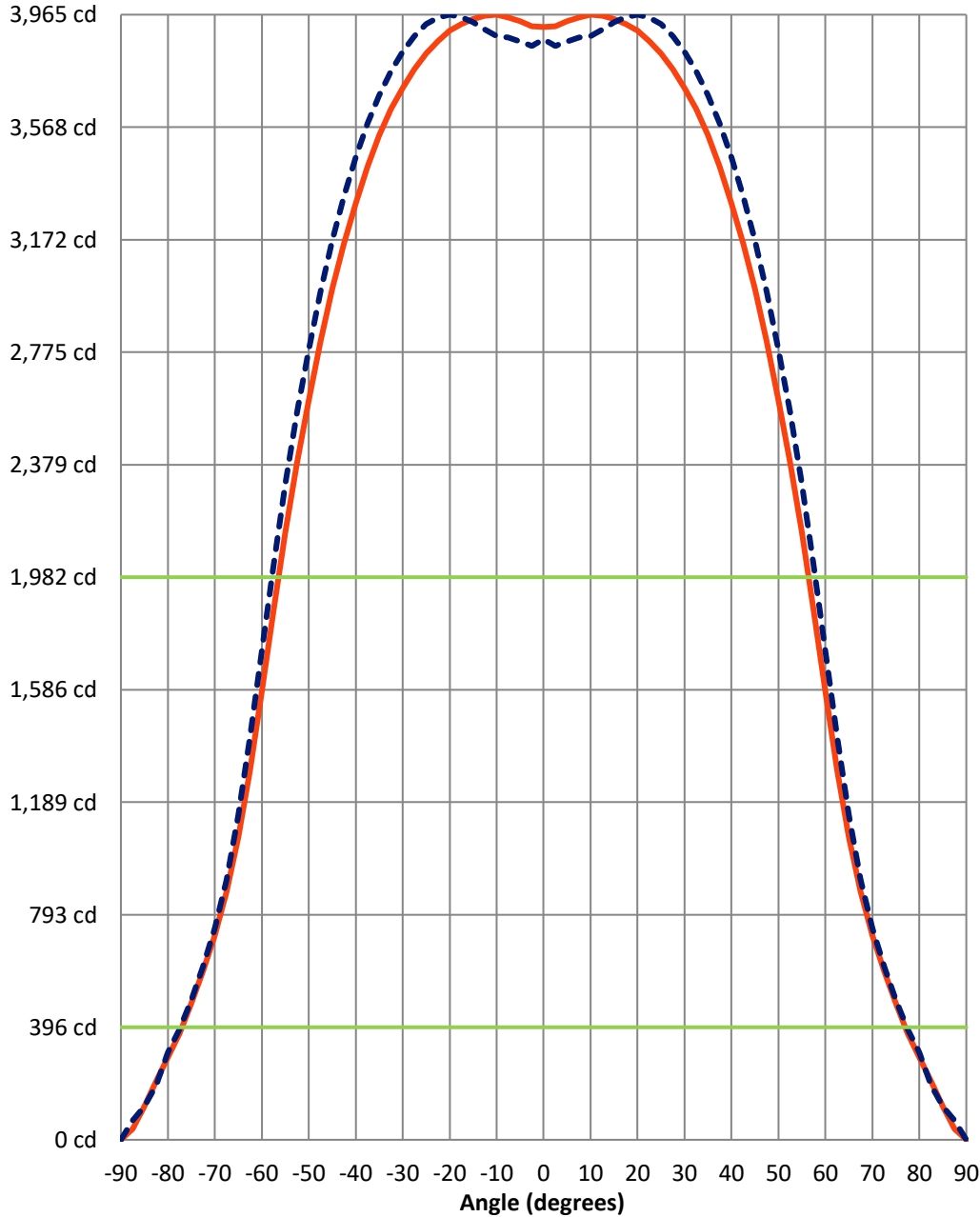
Luminous Intensity Polar Plot



— 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: 7464
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8948.1
 Efficiency: 73.6%

Spill:
 Lumens: 3215.8
 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°	32.0	34.6	35.8	37.1	38.4	39.7	41.0	39.7	38.4	38.4	37.1
85°	85.7	88.3	89.6	98.5	107.5	112.6	119.0	117.7	117.7	116.5	115.2
82.5°	171.5	179.2	185.6	194.5	199.7	207.3	212.5	208.6	206.1	200.9	197.1
80°	304.6	307.2	308.4	309.7	303.3	302.0	299.5	295.6	290.5	284.1	277.7
77.5°	387.8	390.4	392.9	390.4	389.1	387.8	384.0	380.1	375.0	369.9	362.2
75°	513.2	513.2	513.2	509.4	506.8	503.0	496.6	490.2	481.2	471.0	459.5
72.5°	646.3	645.0	643.8	636.1	629.7	622.0	613.0	605.4	595.1	583.6	568.2
70°	785.8	788.4	789.7	779.4	771.7	761.5	750.0	735.9	720.5	703.9	682.2
67.5°	977.8	975.2	972.7	958.6	948.4	934.3	917.6	897.2	874.1	848.5	817.8
65°	1215.8	1219.7	1212.0	1197.9	1178.7	1155.7	1130.1	1100.7	1066.1	1027.7	984.2
62.5°	1503.8	1510.2	1501.3	1483.3	1459.0	1428.3	1392.5	1350.2	1302.9	1249.1	1195.4
60°	1831.4	1830.2	1813.5	1789.2	1757.2	1718.8	1679.1	1633.1	1579.3	1516.6	1451.3
57.5°	2132.2	2129.7	2109.2	2084.9	2052.9	2011.9	1969.7	1921.0	1864.7	1798.2	1722.7
55°	2402.3	2399.7	2379.2	2353.6	2320.3	2279.4	2241.0	2194.9	2139.9	2069.5	1988.9
52.5°	2641.6	2642.9	2624.9	2596.8	2561.0	2521.3	2484.2	2438.1	2385.6	2315.2	2237.2
50°	2861.7	2860.4	2841.2	2815.6	2782.4	2744.0	2706.9	2660.8	2605.8	2537.9	2462.4
47.5°	3066.5	3063.9	3042.2	3014.0	2979.5	2946.2	2911.6	2870.7	2813.1	2745.3	2669.7
45°	3238.0	3232.9	3211.1	3184.2	3151.0	3121.5	3090.8	3060.1	2998.7	2935.9	2864.3
42.5°	3385.2	3383.9	3362.1	3335.3	3302.0	3276.4	3248.2	3209.8	3158.6	3101.0	3030.7
40°	3526.0	3515.7	3494.0	3468.4	3437.6	3415.9	3387.7	3349.3	3299.4	3243.1	3175.3
37.5°	3630.9	3632.2	3609.1	3581.0	3554.1	3533.6	3508.0	3472.2	3428.7	3373.7	3305.8
35°	3730.7	3724.3	3705.1	3680.8	3656.5	3633.5	3606.6	3575.9	3540.0	3488.8	3424.8
32.5°	3796.0	3805.0	3781.9	3756.3	3742.2	3724.3	3696.2	3664.2	3632.2	3581.0	3523.4
30°	3867.7	3860.0	3842.1	3820.3	3810.1	3798.6	3774.2	3743.5	3706.4	3660.3	3606.6
27.5°	3917.6	3913.7	3892.0	3871.5	3866.4	3856.2	3837.0	3810.1	3773.0	3728.2	3678.3
25°	3939.3	3941.9	3921.4	3909.9	3909.9	3903.5	3888.1	3865.1	3828.0	3787.0	3738.4
22.5°	3949.6	3947.0	3932.9	3930.4	3936.8	3931.7	3925.3	3904.8	3871.5	3838.2	3797.3
20°	3956.0	3938.1	3925.3	3935.5	3943.2	3941.9	3936.8	3924.0	3908.6	3880.5	3844.6
17.5°	3941.9	3930.4	3915.0	3930.4	3947.0	3948.3	3943.2	3935.5	3931.7	3913.7	3881.7
15°	3907.3	3898.4	3900.9	3916.3	3935.5	3941.9	3945.7	3954.7	3949.6	3935.5	3907.3
12.5°	3884.3	3872.8	3884.3	3899.7	3909.9	3913.7	3944.5	3961.1	3961.1	3948.3	3930.4
10°	3877.9	3854.9	3870.2	3884.3	3889.4	3912.5	3938.1	3956.0	3964.9	3954.7	3931.7
7.5°	3865.1	3849.8	3856.2	3862.6	3892.0	3908.6	3922.7	3941.9	3954.7	3953.4	3932.9
5°	3858.7	3839.5	3842.1	3869.0	3889.4	3900.9	3906.1	3922.7	3941.9	3945.7	3930.4
2.5°	3842.1	3833.1	3852.3	3854.9	3870.2	3879.2	3884.3	3899.7	3924.0	3932.9	3926.5
0°	3833.1	3820.3	3807.5	3817.8	3843.4	3862.6	3870.2	3893.3	3921.4	3930.4	3916.3



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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°	35.8	34.6	33.3	32.0	33.3	33.3	33.3	32.0	33.3	32.0	32.0
85°	111.3	106.2	102.4	97.3	92.1	88.3	83.2	78.1	76.8	75.5	73.0
82.5°	192.0	185.6	179.2	171.5	163.8	154.9	145.9	135.7	133.1	130.5	126.7
80°	270.0	261.1	252.1	243.2	235.5	226.5	216.3	204.8	197.1	190.7	183.0
77.5°	352.0	339.2	326.4	311.0	302.0	293.1	282.8	271.3	259.8	249.6	238.0
75°	445.4	431.3	418.5	403.1	386.5	369.9	353.2	337.9	321.2	305.9	290.5
72.5°	549.1	528.6	508.1	488.9	468.4	447.9	426.2	405.7	385.2	364.8	343.0
70°	657.8	632.2	606.6	581.0	554.2	527.3	501.7	476.1	450.5	423.6	399.3
67.5°	785.8	756.4	723.1	687.3	647.6	613.0	579.8	549.1	518.3	487.6	456.9
65°	945.8	904.8	860.1	811.4	765.3	719.3	670.6	624.6	588.7	552.9	518.3
62.5°	1142.9	1085.3	1022.6	959.9	903.6	843.4	787.1	726.9	670.6	619.4	577.2
60°	1378.4	1300.3	1223.5	1142.9	1064.8	982.9	911.2	837.0	766.6	703.9	642.5
57.5°	1638.2	1547.3	1455.2	1356.6	1250.4	1154.4	1057.1	959.9	876.7	793.5	724.4
55°	1901.8	1805.9	1702.2	1590.8	1474.4	1351.5	1219.7	1110.9	997.0	899.7	810.1
52.5°	2152.7	2052.9	1945.4	1843.0	1703.5	1562.7	1418.1	1274.7	1141.6	1017.5	908.7
50°	2376.7	2279.4	2175.7	2056.7	1927.4	1777.7	1616.4	1455.2	1297.8	1151.9	1016.2
47.5°	2581.4	2486.7	2383.1	2264.0	2146.3	1979.9	1817.4	1639.5	1464.1	1296.5	1137.8
45°	2773.4	2677.4	2569.9	2456.0	2320.3	2171.9	2004.2	1825.0	1636.9	1448.8	1265.8
42.5°	2947.5	2851.5	2742.7	2624.9	2490.6	2343.4	2180.8	2000.4	1811.0	1606.2	1405.3
40°	3099.8	3006.3	2901.4	2778.5	2653.1	2498.2	2338.3	2166.8	1971.0	1764.9	1543.5
37.5°	3232.9	3145.8	3042.2	2920.6	2787.5	2649.3	2484.2	2312.7	2136.0	1912.1	1685.5
35°	3350.6	3270.0	3163.8	3048.6	2918.0	2772.1	2617.3	2449.6	2258.9	2049.0	1828.9
32.5°	3453.0	3371.1	3273.8	3158.6	3031.9	2895.0	2736.3	2567.4	2386.9	2173.2	1933.8
30°	3540.0	3460.7	3368.5	3259.7	3138.2	3002.5	2847.6	2677.4	2493.1	2280.7	2043.9
27.5°	3615.5	3540.0	3450.4	3349.3	3232.9	3102.3	2946.2	2774.7	2586.6	2381.8	2145.0
25°	3680.8	3607.9	3524.7	3428.7	3313.5	3185.5	3038.3	2859.2	2671.0	2465.0	2230.8
22.5°	3739.7	3669.3	3586.1	3492.7	3387.7	3259.7	3111.3	2933.4	2742.7	2539.2	2308.8
20°	3792.2	3726.9	3645.0	3549.0	3444.0	3314.8	3167.6	2998.7	2806.7	2607.0	2379.2
17.5°	3834.4	3776.8	3694.9	3593.8	3488.8	3363.4	3220.1	3065.2	2861.7	2664.6	2438.1
15°	3863.8	3807.5	3733.3	3630.9	3528.5	3404.4	3261.0	3101.0	2911.6	2710.7	2486.7
12.5°	3884.3	3824.2	3755.0	3660.3	3557.9	3435.1	3295.6	3138.2	2953.9	2751.7	2529.0
10°	3889.4	3834.4	3765.3	3680.8	3581.0	3462.0	3325.0	3168.9	2988.4	2783.6	2563.5
7.5°	3892.0	3839.5	3776.8	3696.2	3597.6	3482.4	3346.8	3193.2	3014.0	2810.5	2589.1
5°	3890.7	3840.8	3784.5	3706.4	3607.9	3494.0	3360.9	3209.8	3031.9	2828.4	2608.3
2.5°	3886.9	3842.1	3789.6	3714.1	3619.4	3506.8	3374.9	3229.0	3051.1	2843.8	2623.7
0°	3897.1	3858.7	3792.2	3711.5	3621.9	3506.8	3373.7	3231.6	3053.7	2842.5	2622.4



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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°	32.0	30.7	30.7	29.4	28.2	26.9	24.3	23.0	20.5	16.6	12.8
85°	69.1	65.3	61.4	58.9	56.3	53.8	49.9	46.1	41.0	33.3	25.6
82.5°	121.6	113.9	106.2	97.3	89.6	81.9	75.5	69.1	61.4	49.9	38.4
80°	174.1	162.5	151.0	138.2	126.7	113.9	102.4	92.1	81.9	66.6	51.2
77.5°	226.5	211.2	194.5	179.2	162.5	145.9	129.3	115.2	99.8	81.9	64.0
75°	275.2	257.2	241.9	220.1	199.7	177.9	156.1	136.9	117.7	96.0	76.8
72.5°	323.8	300.8	279.0	258.5	235.5	208.6	184.3	160.0	135.7	110.1	87.0
70°	372.4	344.3	317.4	293.1	267.5	240.6	211.2	183.0	153.6	122.9	96.0
67.5°	422.3	390.4	359.6	328.9	299.5	268.8	238.0	206.1	171.5	135.7	106.2
65°	477.4	437.7	400.6	366.0	331.5	298.2	263.6	229.1	190.7	149.7	115.2
62.5°	532.4	488.9	445.4	401.9	363.5	326.4	289.2	250.8	208.6	165.1	124.1
60°	591.3	541.4	491.5	442.8	395.5	354.5	313.6	272.6	227.8	179.2	133.1
57.5°	656.6	596.4	540.1	485.1	431.3	382.7	337.9	294.4	244.4	193.3	143.3
55°	730.8	656.6	590.0	528.6	469.7	410.8	362.2	317.4	263.6	207.3	154.9
52.5°	808.9	723.1	642.5	573.4	510.7	444.1	385.2	335.3	282.8	221.4	165.1
50°	899.7	790.9	701.4	616.9	546.5	477.4	409.5	355.8	302.0	238.0	175.3
47.5°	993.2	872.8	760.2	668.1	584.9	509.4	437.7	373.7	320.0	253.4	185.6
45°	1101.9	950.9	826.8	718.0	622.0	542.7	465.9	392.9	335.3	268.8	195.8
42.5°	1206.9	1043.1	895.9	773.0	664.2	574.6	491.5	413.4	350.7	284.1	204.8
40°	1331.0	1135.2	962.4	825.5	706.5	605.4	517.1	435.1	364.8	298.2	213.7
37.5°	1450.1	1228.6	1043.1	883.1	747.4	636.1	542.7	455.6	377.6	312.3	225.3
35°	1567.8	1332.3	1119.9	936.8	789.7	670.6	568.2	474.8	390.4	323.8	235.5
32.5°	1680.4	1429.6	1197.9	997.0	835.7	702.6	591.3	492.7	403.1	334.0	245.7
30°	1785.4	1521.7	1274.7	1058.4	878.0	732.1	613.0	510.7	418.5	343.0	256.0
27.5°	1881.4	1611.3	1351.5	1116.0	917.6	758.9	636.1	527.3	431.3	352.0	264.9
25°	1968.4	1691.9	1421.9	1168.5	953.5	788.4	657.8	543.9	442.8	359.6	272.6
22.5°	2050.3	1766.2	1485.9	1221.0	997.0	817.8	678.3	559.3	454.3	367.3	280.3
20°	2122.0	1834.0	1547.3	1273.4	1035.4	844.7	696.2	573.4	464.6	372.4	288.0
17.5°	2179.6	1894.2	1602.4	1319.5	1068.7	867.7	711.6	586.2	473.5	378.8	293.1
15°	2230.8	1945.4	1648.4	1359.2	1098.1	886.9	725.7	596.4	481.2	382.7	299.5
12.5°	2274.3	1988.9	1688.1	1393.7	1123.7	903.6	737.2	604.1	487.6	386.5	303.3
10°	2310.1	2023.4	1721.4	1420.6	1144.2	916.4	746.1	611.8	492.7	390.4	307.2
7.5°	2337.0	2049.0	1745.7	1443.7	1160.8	925.3	753.8	616.9	497.9	392.9	313.6
5°	2357.5	2070.8	1764.9	1459.0	1173.6	938.1	762.8	623.3	503.0	395.5	313.6
2.5°	2372.8	2088.7	1780.3	1471.8	1183.9	935.6	762.8	622.0	503.0	395.5	312.3
0°	2370.3	2090.0	1779.0	1471.8	1183.9	933.0	762.8	620.7	503.0	395.5	312.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.0	6.4	2.6	0.0
85°	19.2	12.8	6.4	0.0
82.5°	28.2	17.9	9.0	0.0
80°	37.1	24.3	11.5	0.0
77.5°	47.4	30.7	15.4	0.0
75°	56.3	35.8	17.9	0.0
72.5°	65.3	42.2	20.5	0.0
70°	73.0	47.4	23.0	0.0
67.5°	80.6	53.8	26.9	0.0
65°	87.0	58.9	29.4	0.0
62.5°	92.1	65.3	32.0	0.0
60°	98.5	70.4	34.6	0.0
57.5°	103.7	74.2	37.1	0.0
55°	108.8	76.8	39.7	0.0
52.5°	113.9	80.6	42.2	0.0
50°	119.0	84.5	44.8	0.0
47.5°	124.1	87.0	46.1	0.0
45°	131.8	90.9	48.6	0.0
42.5°	138.2	93.4	51.2	0.0
40°	144.6	96.0	52.5	0.0
37.5°	151.0	98.5	55.0	0.0
35°	157.4	101.1	56.3	0.0
32.5°	162.5	103.7	57.6	0.0
30°	167.7	106.2	58.9	0.0
27.5°	172.8	107.5	60.2	0.0
25°	176.6	110.1	61.4	0.0
22.5°	180.5	111.3	62.7	0.0
20°	183.0	112.6	64.0	0.0
17.5°	186.9	113.9	65.3	0.0
15°	188.1	115.2	67.8	0.0
12.5°	190.7	116.5	67.8	0.0
10°	192.0	117.7	67.8	0.0
7.5°	194.5	117.7	67.8	0.0
5°	193.3	117.7	67.8	0.0
2.5°	193.3	117.7	67.8	0.0
0°	192.0	117.7	67.8	0.0

(END OF REPORT)