

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: P628484

Luminaire Tested: **IFLD-M-SA4A-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628484
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12620 lumens	Max Intensity:	4113.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

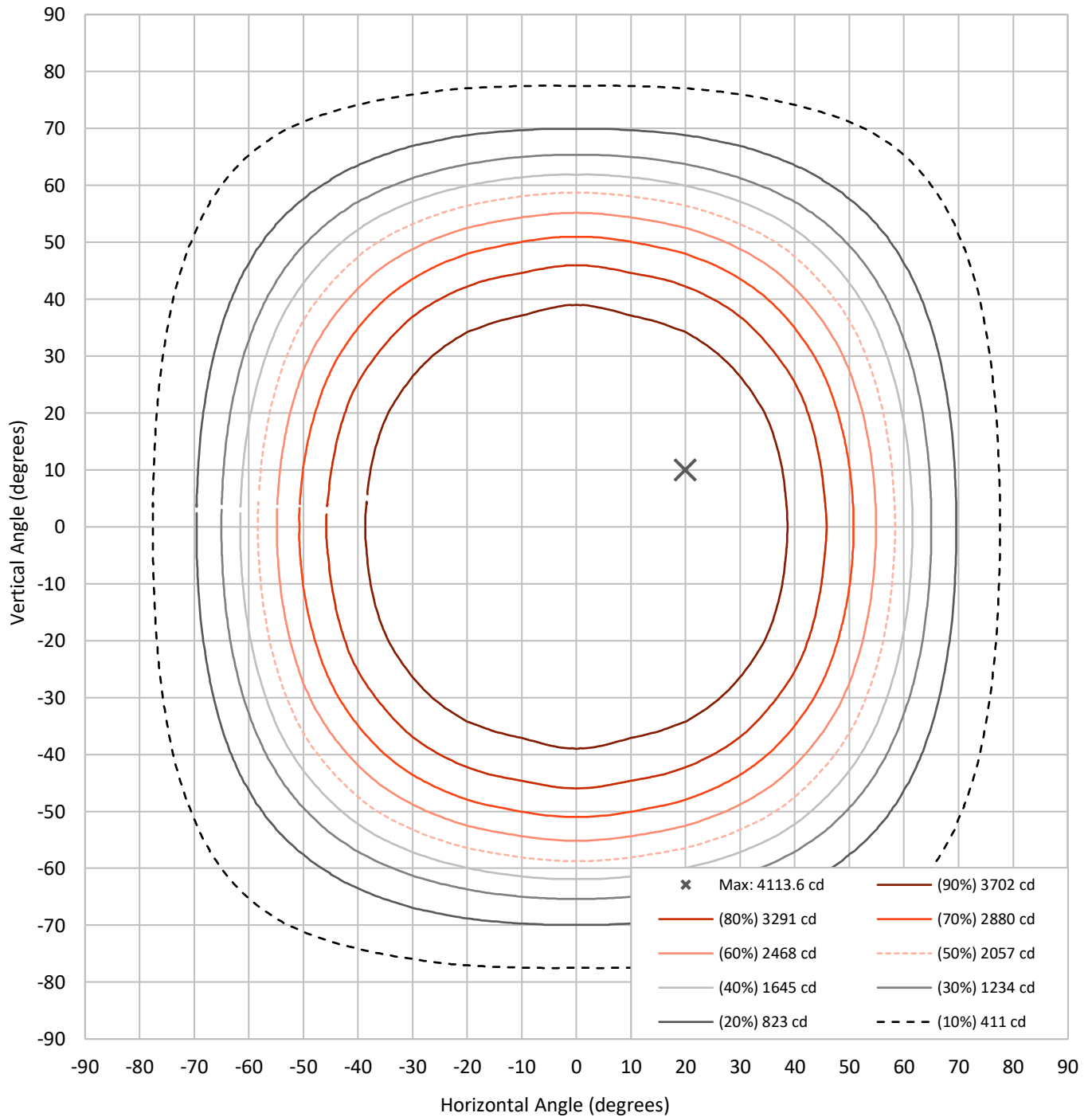
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7743.9 lumens	Field Lumens:	9283.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



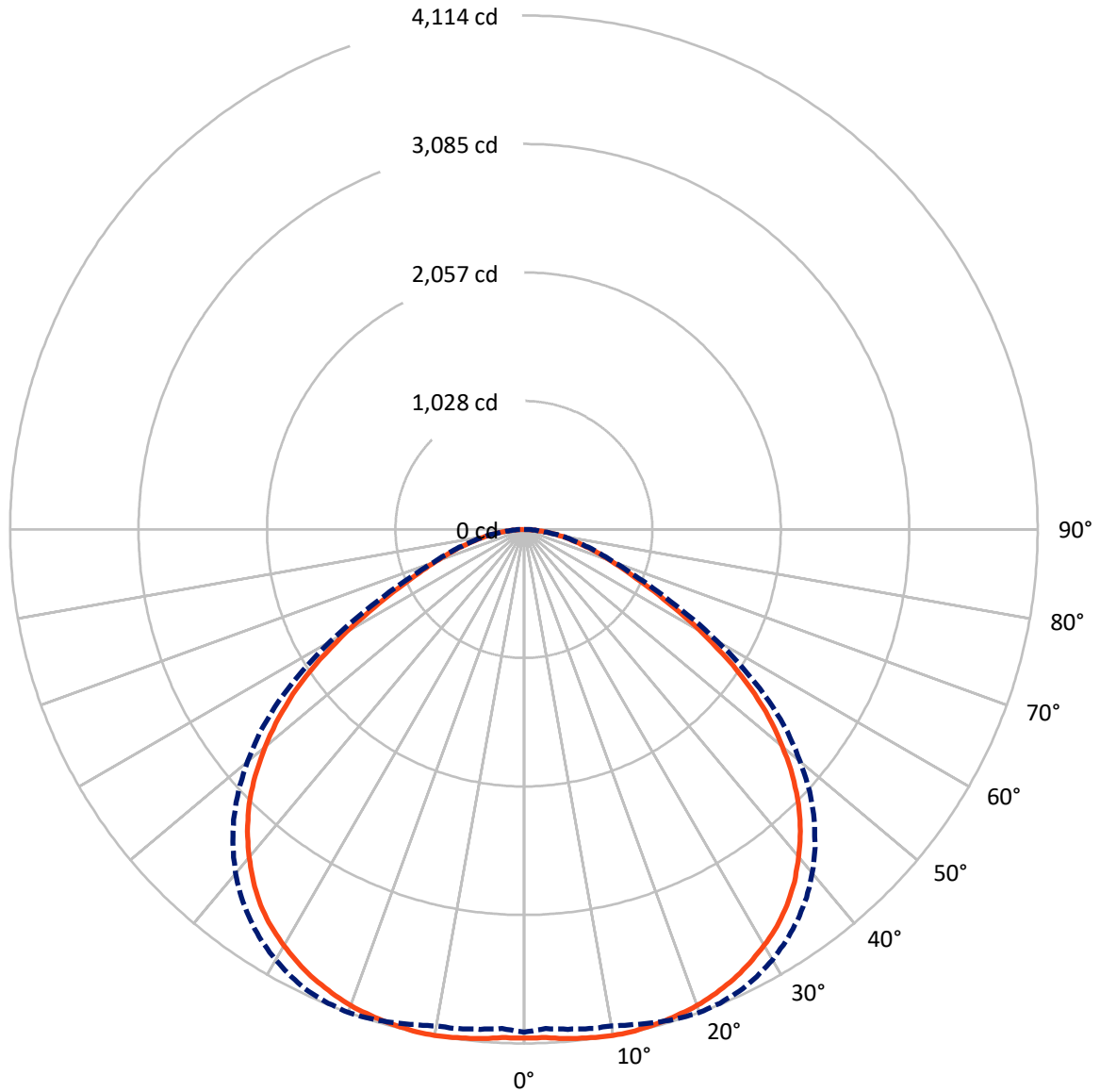
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Iso-Candela Plot



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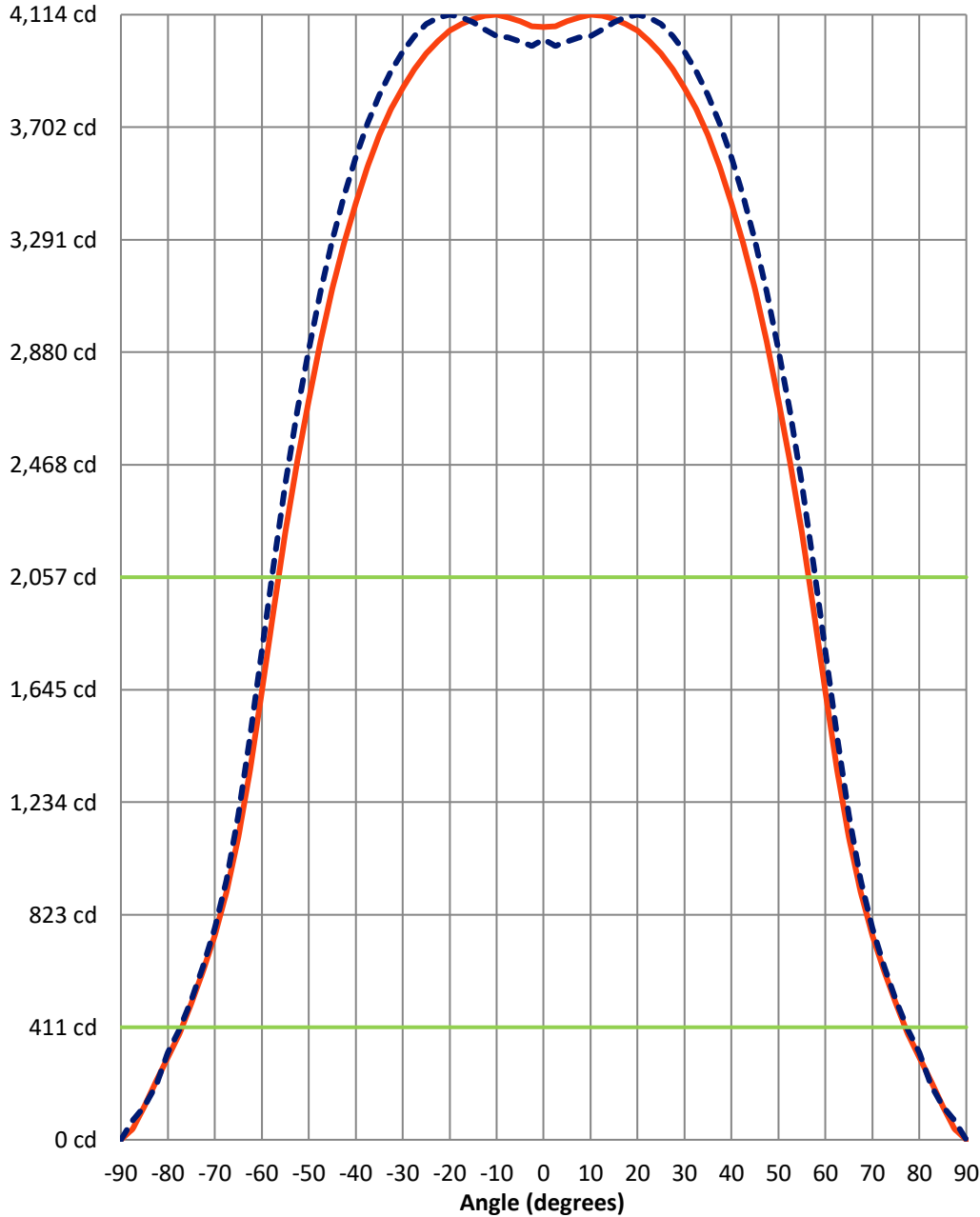
Luminous Intensity Polar Plot



— 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: 7743.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 9283.6
 Efficiency: 73.6%

Spill:
 Lumens: 3336.4
 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°	33.2	35.9	37.2	38.5	39.8	41.2	42.5	41.2	39.8	39.8	38.5
85°	89.0	91.6	92.9	102.2	111.5	116.8	123.5	122.2	122.2	120.8	119.5
82.5°	177.9	185.9	192.5	201.8	207.1	215.1	220.4	216.4	213.8	208.5	204.5
80°	316.0	318.7	320.0	321.3	314.7	313.4	310.7	306.7	301.4	294.8	288.1
77.5°	402.3	405.0	407.6	405.0	403.7	402.3	398.3	394.4	389.1	383.7	375.8
75°	532.5	532.5	532.5	528.5	525.8	521.8	515.2	508.6	499.3	488.6	476.7
72.5°	670.6	669.2	667.9	659.9	653.3	645.3	636.0	628.1	617.4	605.5	589.6
70°	815.3	817.9	819.3	808.6	800.7	790.1	778.1	763.5	747.6	730.3	707.7
67.5°	1014.5	1011.8	1009.2	994.5	983.9	969.3	952.1	930.8	906.9	880.4	848.5
65°	1261.4	1265.4	1257.5	1242.9	1222.9	1199.0	1172.5	1141.9	1106.1	1066.2	1021.1
62.5°	1560.2	1566.8	1557.5	1539.0	1513.7	1481.9	1444.7	1400.9	1351.7	1296.0	1240.2
60°	1900.1	1898.8	1881.5	1856.3	1823.1	1783.3	1742.1	1694.3	1638.5	1573.5	1505.8
57.5°	2212.2	2209.5	2188.3	2163.0	2129.8	2087.4	2043.5	1993.1	1934.7	1865.6	1787.3
55°	2492.3	2489.7	2468.4	2441.9	2407.4	2364.9	2325.0	2277.2	2220.1	2147.1	2063.5
52.5°	2740.6	2742.0	2723.4	2694.2	2657.0	2615.8	2577.3	2529.5	2475.1	2402.0	2321.1
50°	2969.0	2967.7	2947.8	2921.2	2886.7	2846.9	2808.4	2760.6	2703.5	2633.1	2554.7
47.5°	3181.5	3178.8	3156.3	3127.0	3091.2	3056.7	3020.8	2978.3	2918.6	2848.2	2769.9
45°	3359.4	3354.1	3331.5	3303.6	3269.1	3238.6	3206.7	3174.8	3111.1	3046.0	2971.7
42.5°	3512.1	3510.8	3488.2	3460.3	3425.8	3399.3	3370.0	3330.2	3277.1	3217.3	3144.3
40°	3658.2	3647.6	3625.0	3598.4	3566.6	3544.0	3514.8	3474.9	3423.2	3364.7	3294.4
37.5°	3767.1	3768.4	3744.5	3715.3	3687.4	3666.1	3639.6	3602.4	3557.3	3500.2	3429.8
35°	3870.6	3864.0	3844.1	3818.8	3793.6	3769.7	3741.8	3710.0	3672.8	3619.7	3553.3
32.5°	3938.3	3947.6	3923.7	3897.2	3882.6	3864.0	3834.8	3801.6	3768.4	3715.3	3655.5
30°	4012.7	4004.7	3986.2	3963.6	3953.0	3941.0	3915.8	3883.9	3845.4	3797.6	3741.8
27.5°	4064.5	4060.5	4037.9	4016.7	4011.4	4000.8	3980.8	3953.0	3914.4	3868.0	3816.2
25°	4087.1	4089.7	4068.5	4056.5	4056.5	4049.9	4034.0	4010.1	3971.5	3929.1	3878.6
22.5°	4097.7	4095.0	4080.4	4077.8	4084.4	4079.1	4072.5	4051.2	4016.7	3982.2	3939.7
20°	4104.3	4085.7	4072.5	4083.1	4091.1	4089.7	4084.4	4071.1	4055.2	4026.0	3988.8
17.5°	4089.7	4077.8	4061.8	4077.8	4095.0	4096.4	4091.1	4083.1	4079.1	4060.5	4027.3
15°	4053.9	4044.6	4047.2	4063.2	4083.1	4089.7	4093.7	4103.0	4097.7	4083.1	4053.9
12.5°	4030.0	4018.0	4030.0	4045.9	4056.5	4060.5	4092.4	4109.6	4109.6	4096.4	4077.8
10°	4023.3	3999.4	4015.4	4030.0	4035.3	4059.2	4085.7	4104.3	4113.6	4103.0	4079.1
7.5°	4010.1	3994.1	4000.8	4007.4	4037.9	4055.2	4069.8	4089.7	4103.0	4101.7	4080.4
5°	4003.4	3983.5	3986.2	4014.0	4035.3	4047.2	4052.5	4069.8	4089.7	4093.7	4077.8
2.5°	3986.2	3976.9	3996.8	3999.4	4015.4	4024.7	4030.0	4045.9	4071.1	4080.4	4073.8
0°	3976.9	3963.6	3950.3	3960.9	3987.5	4007.4	4015.4	4039.3	4068.5	4077.8	4063.2



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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°	37.2	35.9	34.5	33.2	34.5	34.5	34.5	33.2	34.5	33.2	33.2
85°	115.5	110.2	106.2	100.9	95.6	91.6	86.3	81.0	79.7	78.3	75.7
82.5°	199.2	192.5	185.9	177.9	170.0	160.7	151.4	140.8	138.1	135.4	131.5
80°	280.2	270.9	261.6	252.3	244.3	235.0	224.4	212.5	204.5	197.8	189.9
77.5°	365.2	351.9	338.6	322.7	313.4	304.1	293.5	281.5	269.5	258.9	247.0
75°	462.1	447.5	434.2	418.3	401.0	383.7	366.5	350.5	333.3	317.4	301.4
72.5°	569.6	548.4	527.1	507.2	486.0	464.7	442.2	420.9	399.7	378.4	355.9
70°	682.5	655.9	629.4	602.8	575.0	547.1	520.5	494.0	467.4	439.5	414.3
67.5°	815.3	784.7	750.2	713.0	671.9	636.0	601.5	569.6	537.8	505.9	474.0
65°	981.3	938.8	892.3	841.8	794.0	746.2	695.8	648.0	610.8	573.6	537.8
62.5°	1185.8	1126.0	1060.9	995.9	937.4	875.0	816.6	754.2	695.8	642.7	598.9
60°	1430.1	1349.1	1269.4	1185.8	1104.8	1019.8	945.4	868.4	795.4	730.3	666.6
57.5°	1699.6	1605.3	1509.7	1407.5	1297.3	1197.7	1096.8	995.9	909.6	823.3	751.6
55°	1973.2	1873.6	1766.0	1650.5	1529.7	1402.2	1265.4	1152.6	1034.4	933.5	840.5
52.5°	2233.4	2129.8	2018.3	1912.1	1767.3	1621.3	1471.2	1322.5	1184.4	1055.6	942.8
50°	2465.8	2364.9	2257.3	2133.8	1999.7	1844.4	1677.1	1509.7	1346.4	1195.0	1054.3
47.5°	2678.2	2580.0	2472.4	2348.9	2226.8	2054.2	1885.5	1701.0	1519.0	1345.1	1180.4
45°	2877.4	2777.8	2666.3	2548.1	2407.4	2253.3	2079.4	1893.5	1698.3	1503.1	1313.2
42.5°	3058.0	2958.4	2845.5	2723.4	2584.0	2431.3	2262.6	2075.4	1878.9	1666.4	1458.0
40°	3216.0	3119.1	3010.2	2882.7	2752.6	2591.9	2425.9	2248.0	2044.9	1831.1	1601.4
37.5°	3354.1	3263.8	3156.3	3030.1	2892.0	2748.6	2577.3	2399.4	2216.2	1983.8	1748.8
35°	3476.3	3392.6	3282.4	3162.9	3027.5	2876.1	2715.4	2541.5	2343.6	2125.9	1897.5
32.5°	3582.5	3497.5	3396.6	3277.1	3145.6	3003.6	2838.9	2663.6	2476.4	2254.7	2006.4
30°	3672.8	3590.5	3494.9	3382.0	3255.8	3115.1	2954.4	2777.8	2586.6	2366.2	2120.5
27.5°	3751.1	3672.8	3579.8	3474.9	3354.1	3218.7	3056.7	2878.7	2683.5	2471.1	2225.4
25°	3818.8	3743.2	3656.8	3557.3	3437.8	3305.0	3152.3	2966.4	2771.2	2557.4	2314.4
22.5°	3879.9	3806.9	3720.6	3623.7	3514.8	3382.0	3228.0	3043.4	2845.5	2634.4	2395.4
20°	3934.4	3866.6	3781.7	3682.1	3573.2	3439.1	3286.4	3111.1	2911.9	2704.8	2468.4
17.5°	3978.2	3918.4	3833.5	3728.6	3619.7	3489.5	3340.8	3180.2	2969.0	2764.5	2529.5
15°	4008.7	3950.3	3873.3	3767.1	3660.8	3532.0	3383.3	3217.3	3020.8	2812.3	2580.0
12.5°	4030.0	3967.6	3895.9	3797.6	3691.4	3563.9	3419.2	3255.8	3064.6	2854.8	2623.8
10°	4035.3	3978.2	3906.5	3818.8	3715.3	3591.8	3449.7	3287.7	3100.5	2888.0	2659.6
7.5°	4037.9	3983.5	3918.4	3834.8	3732.5	3613.0	3472.3	3312.9	3127.0	2915.9	2686.2
5°	4036.6	3984.8	3926.4	3845.4	3743.2	3625.0	3486.9	3330.2	3145.6	2934.5	2706.1
2.5°	4032.6	3986.2	3931.7	3853.4	3755.1	3638.3	3501.5	3350.1	3165.6	2950.4	2722.1
0°	4043.2	4003.4	3934.4	3850.7	3757.8	3638.3	3500.2	3352.8	3168.2	2949.1	2720.7



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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°	33.2	31.9	31.9	30.5	29.2	27.9	25.2	23.9	21.2	17.3	13.3
85°	71.7	67.7	63.7	61.1	58.4	55.8	51.8	47.8	42.5	34.5	26.6
82.5°	126.1	118.2	110.2	100.9	92.9	85.0	78.3	71.7	63.7	51.8	39.8
80°	180.6	168.6	156.7	143.4	131.5	118.2	106.2	95.6	85.0	69.0	53.1
77.5°	235.0	219.1	201.8	185.9	168.6	151.4	134.1	119.5	103.6	85.0	66.4
75°	285.5	266.9	251.0	228.4	207.1	184.6	162.0	142.1	122.2	99.6	79.7
72.5°	335.9	312.0	289.5	268.2	244.3	216.4	191.2	166.0	140.8	114.2	90.3
70°	386.4	357.2	329.3	304.1	277.5	249.6	219.1	189.9	159.3	127.5	99.6
67.5°	438.2	405.0	373.1	341.3	310.7	278.8	247.0	213.8	177.9	140.8	110.2
65°	495.3	454.1	415.6	379.8	343.9	309.4	273.5	237.7	197.8	155.4	119.5
62.5°	552.4	507.2	462.1	416.9	377.1	338.6	300.1	260.3	216.4	171.3	128.8
60°	613.5	561.7	509.9	459.4	410.3	367.8	325.3	282.8	236.4	185.9	138.1
57.5°	681.2	618.8	560.3	503.2	447.5	397.0	350.5	305.4	253.6	200.5	148.7
55°	758.2	681.2	612.1	548.4	487.3	426.2	375.8	329.3	273.5	215.1	160.7
52.5°	839.2	750.2	666.6	594.9	529.8	460.8	399.7	347.9	293.5	229.7	171.3
50°	933.5	820.6	727.7	640.0	567.0	495.3	424.9	369.1	313.4	247.0	181.9
47.5°	1030.4	905.6	788.7	693.1	606.8	528.5	454.1	387.7	332.0	262.9	192.5
45°	1143.3	986.6	857.8	744.9	645.3	563.0	483.3	407.6	347.9	278.8	203.2
42.5°	1252.1	1082.2	929.5	802.0	689.1	596.2	509.9	428.9	363.8	294.8	212.5
40°	1380.9	1177.8	998.5	856.5	733.0	628.1	536.4	451.5	378.4	309.4	221.7
37.5°	1504.4	1274.7	1082.2	916.2	775.5	659.9	563.0	472.7	391.7	324.0	233.7
35°	1626.6	1382.3	1161.9	972.0	819.3	695.8	589.6	492.6	405.0	335.9	244.3
32.5°	1743.4	1483.2	1242.9	1034.4	867.1	729.0	613.5	511.2	418.3	346.6	254.9
30°	1852.3	1578.8	1322.5	1098.1	910.9	759.5	636.0	529.8	434.2	355.9	265.6
27.5°	1951.9	1671.7	1402.2	1157.9	952.1	787.4	659.9	547.1	447.5	365.2	274.9
25°	2042.2	1755.4	1475.2	1212.3	989.2	817.9	682.5	564.3	459.4	373.1	282.8
22.5°	2127.2	1832.4	1541.6	1266.8	1034.4	848.5	703.8	580.3	471.4	381.1	290.8
20°	2201.5	1902.8	1605.3	1321.2	1074.2	876.4	722.3	594.9	482.0	386.4	298.8
17.5°	2261.3	1965.2	1662.4	1369.0	1108.7	900.3	738.3	608.1	491.3	393.0	304.1
15°	2314.4	2018.3	1710.2	1410.2	1139.3	920.2	752.9	618.8	499.3	397.0	310.7
12.5°	2359.6	2063.5	1751.4	1446.0	1165.8	937.4	764.8	626.7	505.9	401.0	314.7
10°	2396.7	2099.3	1785.9	1473.9	1187.1	950.7	774.1	634.7	511.2	405.0	318.7
7.5°	2424.6	2125.9	1811.2	1497.8	1204.3	960.0	782.1	640.0	516.5	407.6	325.3
5°	2445.9	2148.4	1831.1	1513.7	1217.6	973.3	791.4	646.7	521.8	410.3	325.3
2.5°	2461.8	2167.0	1847.0	1527.0	1228.2	970.6	791.4	645.3	521.8	410.3	324.0
0°	2459.1	2168.3	1845.7	1527.0	1228.2	968.0	791.4	644.0	521.8	410.3	324.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.3	6.6	2.7	0.0
85°	19.9	13.3	6.6	0.0
82.5°	29.2	18.6	9.3	0.0
80°	38.5	25.2	12.0	0.0
77.5°	49.1	31.9	15.9	0.0
75°	58.4	37.2	18.6	0.0
72.5°	67.7	43.8	21.2	0.0
70°	75.7	49.1	23.9	0.0
67.5°	83.7	55.8	27.9	0.0
65°	90.3	61.1	30.5	0.0
62.5°	95.6	67.7	33.2	0.0
60°	102.2	73.0	35.9	0.0
57.5°	107.6	77.0	38.5	0.0
55°	112.9	79.7	41.2	0.0
52.5°	118.2	83.7	43.8	0.0
50°	123.5	87.6	46.5	0.0
47.5°	128.8	90.3	47.8	0.0
45°	136.8	94.3	50.5	0.0
42.5°	143.4	96.9	53.1	0.0
40°	150.0	99.6	54.4	0.0
37.5°	156.7	102.2	57.1	0.0
35°	163.3	104.9	58.4	0.0
32.5°	168.6	107.6	59.8	0.0
30°	173.9	110.2	61.1	0.0
27.5°	179.3	111.5	62.4	0.0
25°	183.2	114.2	63.7	0.0
22.5°	187.2	115.5	65.1	0.0
20°	189.9	116.8	66.4	0.0
17.5°	193.9	118.2	67.7	0.0
15°	195.2	119.5	70.4	0.0
12.5°	197.8	120.8	70.4	0.0
10°	199.2	122.2	70.4	0.0
7.5°	201.8	122.2	70.4	0.0
5°	200.5	122.2	70.4	0.0
2.5°	200.5	122.2	70.4	0.0
0°	199.2	122.2	70.4	0.0

(END OF REPORT)