

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: P628426

Luminaire Tested: **IFLD-M-SA4A-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628426  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12032.7 lumens	Max Intensity:	3922.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	93.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

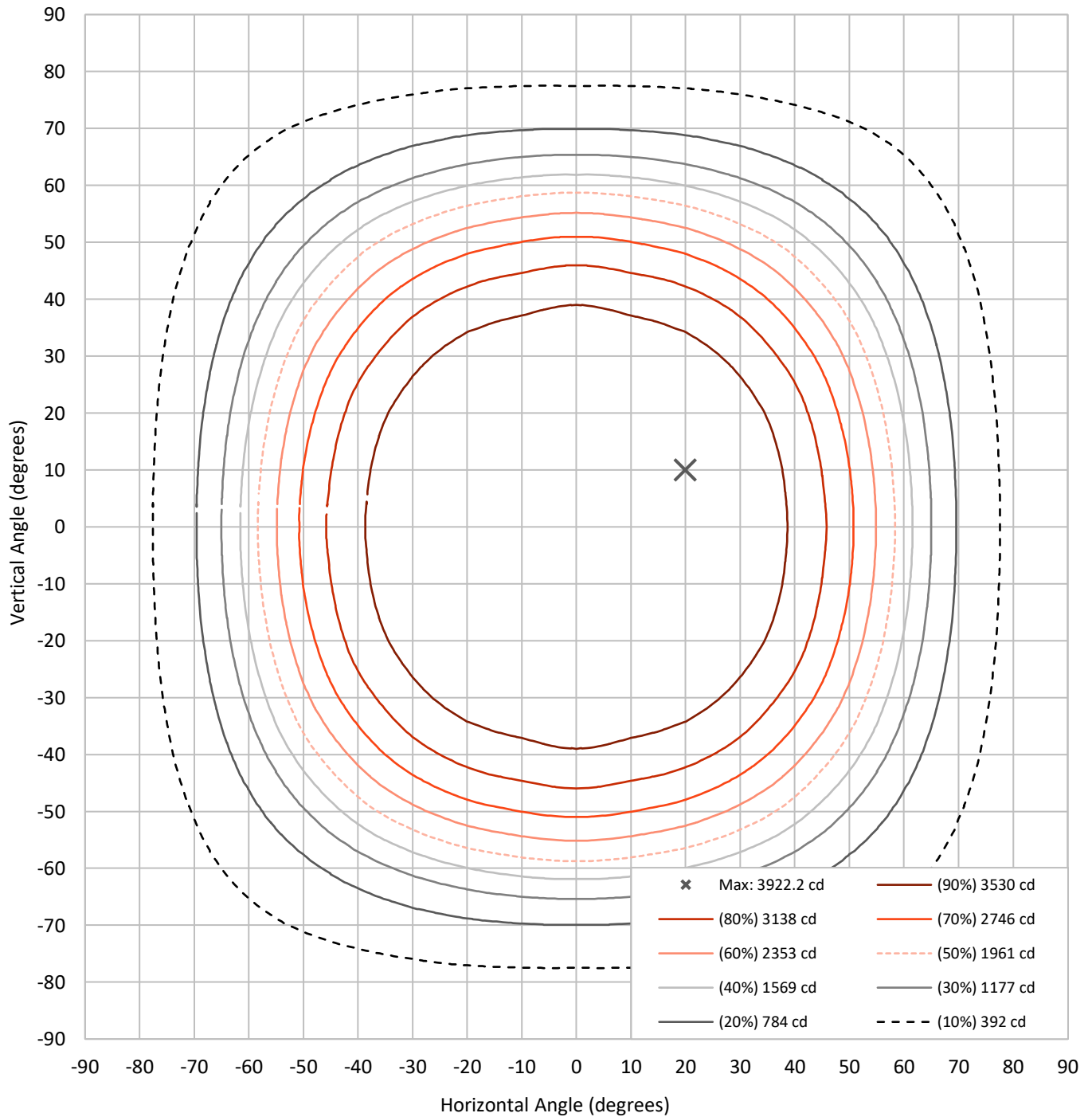
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7383.5 lumens	Field Lumens:	8851.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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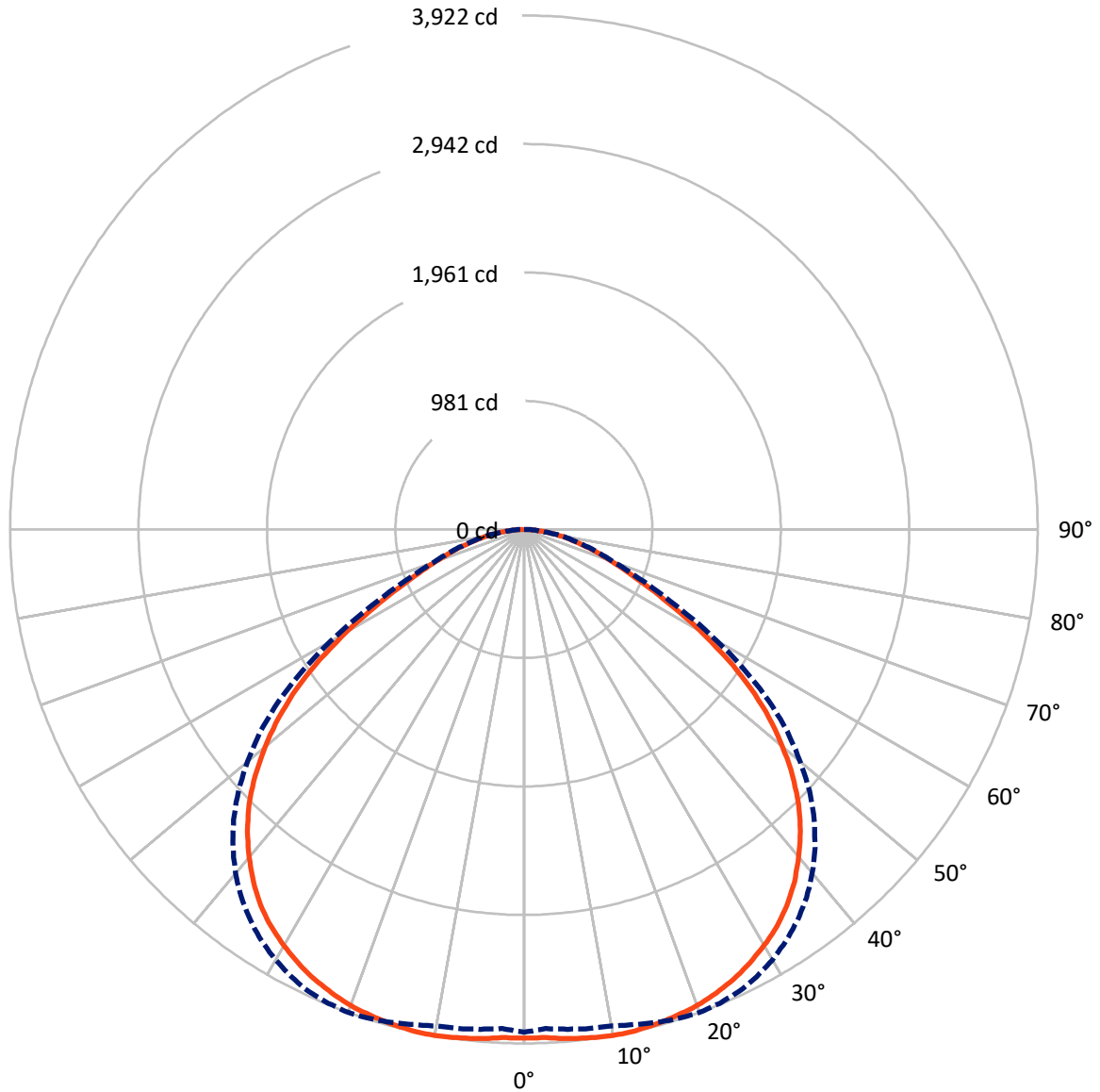
### Iso-Candela Plot





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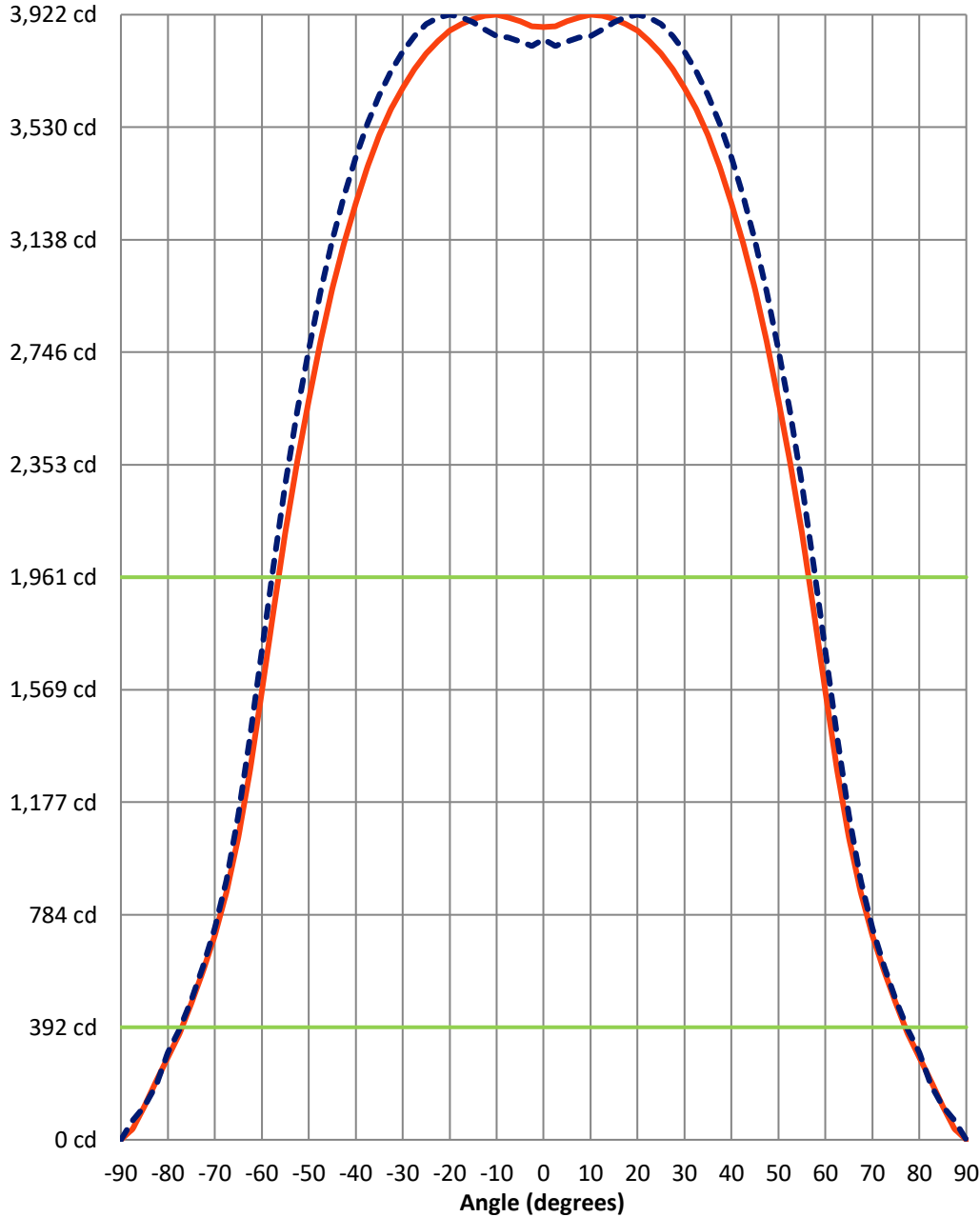
### Luminous Intensity Polar Plot



— 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: 7383.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 8851.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3181.1  
 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°	31.7	34.2	35.4	36.7	38.0	39.2	40.5	39.2	38.0	38.0	36.7
85°	84.8	87.4	88.6	97.5	106.3	111.4	117.7	116.5	116.5	115.2	113.9
82.5°	169.6	177.2	183.6	192.4	197.5	205.1	210.2	206.4	203.8	198.8	195.0
80°	301.3	303.8	305.1	306.4	300.1	298.8	296.3	292.5	287.4	281.1	274.7
77.5°	383.6	386.1	388.7	386.1	384.9	383.6	379.8	376.0	370.9	365.9	358.3
75°	507.7	507.7	507.7	503.9	501.4	497.6	491.2	484.9	476.0	465.9	454.5
72.5°	639.4	638.1	636.8	629.2	622.9	615.3	606.4	598.8	588.7	577.3	562.1
70°	777.3	779.9	781.1	771.0	763.4	753.3	741.9	728.0	712.8	696.3	674.8
67.5°	967.3	964.7	962.2	948.3	938.1	924.2	907.8	887.5	864.7	839.4	809.0
65°	1202.7	1206.5	1198.9	1185.0	1166.0	1143.2	1117.9	1088.8	1054.6	1016.6	973.6
62.5°	1487.6	1493.9	1485.1	1467.3	1443.3	1412.9	1377.5	1335.7	1288.8	1235.7	1182.5
60°	1811.7	1810.4	1794.0	1769.9	1738.3	1700.3	1661.0	1615.5	1562.3	1500.3	1435.7
57.5°	2109.2	2106.7	2086.4	2062.4	2030.7	1990.2	1948.4	1900.3	1844.6	1778.8	1704.1
55°	2376.4	2373.8	2353.6	2328.2	2295.3	2254.8	2216.8	2171.3	2116.8	2047.2	1967.4
52.5°	2613.1	2614.4	2596.6	2568.8	2533.3	2494.1	2457.4	2411.8	2359.9	2290.3	2213.0
50°	2830.9	2829.6	2810.6	2785.3	2752.4	2714.4	2677.7	2632.1	2577.7	2510.6	2435.9
47.5°	3033.4	3030.9	3009.4	2981.5	2947.3	2914.4	2880.2	2839.7	2782.8	2715.7	2641.0
45°	3203.1	3198.0	3176.5	3149.9	3117.0	3087.9	3057.5	3027.1	2966.3	2904.3	2833.4
42.5°	3348.7	3347.4	3325.9	3299.3	3266.4	3241.1	3213.2	3175.2	3124.6	3067.6	2998.0
40°	3487.9	3477.8	3456.3	3431.0	3400.6	3379.1	3351.2	3313.2	3263.9	3208.1	3141.0
37.5°	3591.8	3593.0	3570.2	3542.4	3515.8	3495.5	3470.2	3434.8	3391.7	3337.3	3270.2
35°	3690.5	3684.2	3665.2	3641.1	3617.1	3594.3	3567.7	3537.3	3501.9	3451.2	3387.9
32.5°	3755.1	3763.9	3741.1	3715.8	3701.9	3684.2	3656.3	3624.7	3593.0	3542.4	3485.4
30°	3826.0	3818.4	3800.7	3779.1	3769.0	3757.6	3733.6	3703.2	3666.5	3620.9	3567.7
27.5°	3875.3	3871.5	3850.0	3829.8	3824.7	3814.6	3795.6	3769.0	3732.3	3688.0	3638.6
25°	3896.9	3899.4	3879.1	3867.8	3867.8	3861.4	3846.2	3823.4	3786.7	3746.2	3698.1
22.5°	3907.0	3904.5	3890.5	3888.0	3894.3	3889.3	3882.9	3862.7	3829.8	3796.9	3756.3
20°	3913.3	3895.6	3882.9	3893.1	3900.7	3899.4	3894.3	3881.7	3866.5	3838.6	3803.2
17.5°	3899.4	3888.0	3872.8	3888.0	3904.5	3905.7	3900.7	3893.1	3889.3	3871.5	3839.9
15°	3865.2	3856.4	3858.9	3874.1	3893.1	3899.4	3903.2	3912.1	3907.0	3893.1	3865.2
12.5°	3842.4	3831.0	3842.4	3857.6	3867.8	3871.5	3901.9	3918.4	3918.4	3905.7	3888.0
10°	3836.1	3813.3	3828.5	3842.4	3847.5	3870.3	3895.6	3913.3	3922.2	3912.1	3889.3
7.5°	3823.4	3808.2	3814.6	3820.9	3850.0	3866.5	3880.4	3899.4	3912.1	3910.8	3890.5
5°	3817.1	3798.1	3800.7	3827.2	3847.5	3858.9	3864.0	3880.4	3899.4	3903.2	3888.0
2.5°	3800.7	3791.8	3810.8	3813.3	3828.5	3837.4	3842.4	3857.6	3881.7	3890.5	3884.2
0°	3791.8	3779.1	3766.5	3776.6	3801.9	3820.9	3828.5	3851.3	3879.1	3888.0	3874.1



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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°	35.4	34.2	32.9	31.7	32.9	32.9	32.9	31.7	32.9	31.7	31.7
85°	110.1	105.1	101.3	96.2	91.2	87.4	82.3	77.2	76.0	74.7	72.2
82.5°	189.9	183.6	177.2	169.6	162.1	153.2	144.3	134.2	131.7	129.1	125.3
80°	267.1	258.3	249.4	240.5	233.0	224.1	214.0	202.6	195.0	188.6	181.0
77.5°	348.2	335.5	322.8	307.6	298.8	289.9	279.8	268.4	257.0	246.9	235.5
75°	440.6	426.7	414.0	398.8	382.3	365.9	349.4	334.2	317.8	302.6	287.4
72.5°	543.1	522.9	502.6	483.6	463.4	443.1	421.6	401.3	381.1	360.8	339.3
70°	650.7	625.4	600.1	574.8	548.2	521.6	496.3	471.0	445.6	419.1	395.0
67.5°	777.3	748.2	715.3	679.9	640.6	606.4	573.5	543.1	512.7	482.4	452.0
65°	935.6	895.1	850.8	802.7	757.1	711.5	663.4	617.8	582.4	546.9	512.7
62.5°	1130.6	1073.6	1011.6	949.5	893.8	834.3	778.6	719.1	663.4	612.8	571.0
60°	1363.5	1286.3	1210.3	1130.6	1053.3	972.3	901.4	828.0	758.4	696.3	635.6
57.5°	1620.5	1530.6	1439.5	1342.0	1236.9	1142.0	1045.7	949.5	867.2	784.9	716.6
55°	1881.3	1786.4	1683.8	1573.7	1458.5	1336.9	1206.5	1098.9	986.2	890.0	801.4
52.5°	2129.5	2030.7	1924.4	1823.1	1685.1	1545.8	1402.8	1261.0	1129.3	1006.5	898.9
50°	2351.0	2254.8	2152.3	2034.5	1906.7	1758.5	1599.0	1439.5	1283.8	1139.4	1005.2
47.5°	2553.6	2459.9	2357.4	2239.6	2123.1	1958.6	1797.8	1621.8	1448.3	1282.5	1125.5
45°	2743.5	2648.6	2542.2	2429.5	2295.3	2148.5	1982.6	1805.4	1619.3	1433.2	1252.1
42.5°	2915.7	2820.7	2713.1	2596.6	2463.7	2318.1	2157.3	1978.8	1791.4	1588.9	1390.1
40°	3066.3	2973.9	2870.1	2748.6	2624.5	2471.3	2313.1	2143.4	1949.7	1745.9	1526.8
37.5°	3198.0	3111.9	3009.4	2889.1	2757.4	2620.7	2457.4	2287.7	2113.0	1891.5	1667.4
35°	3314.5	3234.7	3129.7	3015.7	2886.6	2742.2	2589.1	2423.2	2234.6	2026.9	1809.2
32.5°	3415.8	3334.7	3238.5	3124.6	2999.2	2863.8	2706.8	2539.7	2361.2	2149.7	1913.0
30°	3501.9	3423.4	3332.2	3224.6	3104.3	2970.1	2816.9	2648.6	2466.2	2256.1	2021.9
27.5°	3576.6	3501.9	3413.2	3313.2	3198.0	3068.9	2914.4	2744.8	2558.7	2356.1	2121.9
25°	3641.1	3569.0	3486.7	3391.7	3277.8	3151.2	3005.6	2828.3	2642.2	2438.4	2206.7
22.5°	3699.4	3629.7	3547.4	3455.0	3351.2	3224.6	3077.7	2901.8	2713.1	2511.8	2283.9
20°	3751.3	3686.7	3605.7	3510.7	3406.9	3279.0	3133.4	2966.3	2776.4	2578.9	2353.6
17.5°	3793.1	3736.1	3655.1	3555.0	3451.2	3327.2	3185.4	3032.2	2830.9	2635.9	2411.8
15°	3822.2	3766.5	3693.0	3591.8	3490.5	3367.7	3225.9	3067.6	2880.2	2681.5	2459.9
12.5°	3842.4	3782.9	3714.6	3620.9	3519.6	3398.1	3260.1	3104.3	2922.0	2722.0	2501.7
10°	3847.5	3793.1	3724.7	3641.1	3542.4	3424.6	3289.2	3134.7	2956.2	2753.6	2535.9
7.5°	3850.0	3798.1	3736.1	3656.3	3558.8	3444.9	3310.7	3158.8	2981.5	2780.2	2561.2
5°	3848.8	3799.4	3743.7	3666.5	3569.0	3456.3	3324.6	3175.2	2999.2	2797.9	2580.2
2.5°	3845.0	3800.7	3748.7	3674.0	3580.4	3468.9	3338.5	3194.2	3018.2	2813.1	2595.4
0°	3855.1	3817.1	3751.3	3671.5	3582.9	3468.9	3337.3	3196.8	3020.8	2811.9	2594.1





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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°	31.7	30.4	30.4	29.1	27.9	26.6	24.1	22.8	20.3	16.5	12.7
85°	68.4	64.6	60.8	58.2	55.7	53.2	49.4	45.6	40.5	32.9	25.3
82.5°	120.3	112.7	105.1	96.2	88.6	81.0	74.7	68.4	60.8	49.4	38.0
80°	172.2	160.8	149.4	136.7	125.3	112.7	101.3	91.2	81.0	65.8	50.6
77.5°	224.1	208.9	192.4	177.2	160.8	144.3	127.9	113.9	98.8	81.0	63.3
75°	272.2	254.5	239.3	217.8	197.5	176.0	154.5	135.5	116.5	95.0	76.0
72.5°	320.3	297.5	276.0	255.7	233.0	206.4	182.3	158.3	134.2	108.9	86.1
70°	368.4	340.6	314.0	289.9	264.6	238.0	208.9	181.0	151.9	121.5	95.0
67.5°	417.8	386.1	355.8	325.4	296.3	265.9	235.5	203.8	169.6	134.2	105.1
65°	472.2	433.0	396.3	362.1	327.9	295.0	260.8	226.6	188.6	148.1	113.9
62.5°	526.7	483.6	440.6	397.5	359.6	322.8	286.1	248.1	206.4	163.3	122.8
60°	584.9	535.5	486.2	438.0	391.2	350.7	310.2	269.7	225.4	177.2	131.7
57.5°	649.5	590.0	534.3	479.8	426.7	378.5	334.2	291.2	241.8	191.2	141.8
55°	722.9	649.5	583.6	522.9	464.6	406.4	358.3	314.0	260.8	205.1	153.2
52.5°	800.1	715.3	635.6	567.2	505.1	439.3	381.1	331.7	279.8	219.0	163.3
50°	890.0	782.4	693.8	610.2	540.6	472.2	405.1	352.0	298.8	235.5	173.4
47.5°	982.4	863.4	752.0	660.9	578.6	503.9	433.0	369.7	316.5	250.7	183.6
45°	1090.1	940.7	817.9	710.2	615.3	536.8	460.8	388.7	331.7	265.9	193.7
42.5°	1193.9	1031.8	886.2	764.7	657.1	568.5	486.2	408.9	346.9	281.1	202.6
40°	1316.7	1123.0	952.1	816.6	698.9	598.8	511.5	430.5	360.8	295.0	211.4
37.5°	1434.4	1215.4	1031.8	873.6	739.4	629.2	536.8	450.7	373.5	308.9	222.8
35°	1550.9	1317.9	1107.8	926.7	781.1	663.4	562.1	469.7	386.1	320.3	233.0
32.5°	1662.3	1414.2	1185.0	986.2	826.7	695.1	584.9	487.4	398.8	330.4	243.1
30°	1766.1	1505.3	1261.0	1047.0	868.5	724.2	606.4	505.1	414.0	339.3	253.2
27.5°	1861.1	1593.9	1336.9	1104.0	907.8	750.8	629.2	521.6	426.7	348.2	262.1
25°	1947.2	1673.7	1406.6	1155.9	943.2	779.9	650.7	538.1	438.0	355.8	269.7
22.5°	2028.2	1747.1	1469.9	1207.8	986.2	809.0	671.0	553.3	449.4	363.4	277.3
20°	2099.1	1814.2	1530.6	1259.7	1024.2	835.6	688.7	567.2	459.6	368.4	284.9
17.5°	2156.1	1873.7	1585.1	1305.3	1057.1	858.4	703.9	579.8	468.4	374.7	289.9
15°	2206.7	1924.4	1630.7	1344.5	1086.3	877.4	717.8	590.0	476.0	378.5	296.3
12.5°	2249.8	1967.4	1669.9	1378.7	1111.6	893.8	729.2	597.6	482.4	382.3	300.1
10°	2285.2	2001.6	1702.8	1405.3	1131.8	906.5	738.1	605.2	487.4	386.1	303.8
7.5°	2311.8	2026.9	1726.9	1428.1	1148.3	915.3	745.7	610.2	492.5	388.7	310.2
5°	2332.0	2048.5	1745.9	1443.3	1161.0	928.0	754.6	616.6	497.6	391.2	310.2
2.5°	2347.2	2066.2	1761.1	1455.9	1171.1	925.5	754.6	615.3	497.6	391.2	308.9
0°	2344.7	2067.4	1759.8	1455.9	1171.1	922.9	754.6	614.0	497.6	391.2	308.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.9	6.3	2.5	0.0
85°	19.0	12.7	6.3	0.0
82.5°	27.9	17.7	8.9	0.0
80°	36.7	24.1	11.4	0.0
77.5°	46.8	30.4	15.2	0.0
75°	55.7	35.4	17.7	0.0
72.5°	64.6	41.8	20.3	0.0
70°	72.2	46.8	22.8	0.0
67.5°	79.8	53.2	26.6	0.0
65°	86.1	58.2	29.1	0.0
62.5°	91.2	64.6	31.7	0.0
60°	97.5	69.6	34.2	0.0
57.5°	102.5	73.4	36.7	0.0
55°	107.6	76.0	39.2	0.0
52.5°	112.7	79.8	41.8	0.0
50°	117.7	83.6	44.3	0.0
47.5°	122.8	86.1	45.6	0.0
45°	130.4	89.9	48.1	0.0
42.5°	136.7	92.4	50.6	0.0
40°	143.1	95.0	51.9	0.0
37.5°	149.4	97.5	54.4	0.0
35°	155.7	100.0	55.7	0.0
32.5°	160.8	102.5	57.0	0.0
30°	165.9	105.1	58.2	0.0
27.5°	170.9	106.3	59.5	0.0
25°	174.7	108.9	60.8	0.0
22.5°	178.5	110.1	62.0	0.0
20°	181.0	111.4	63.3	0.0
17.5°	184.8	112.7	64.6	0.0
15°	186.1	113.9	67.1	0.0
12.5°	188.6	115.2	67.1	0.0
10°	189.9	116.5	67.1	0.0
7.5°	192.4	116.5	67.1	0.0
5°	191.2	116.5	67.1	0.0
2.5°	191.2	116.5	67.1	0.0
0°	189.9	116.5	67.1	0.0

(END OF REPORT)