

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: P628473

Luminaire Tested: **IFLD-S-SA2E-935-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628473  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-935-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12368.5 lumens	Max Intensity:	4031.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	79.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

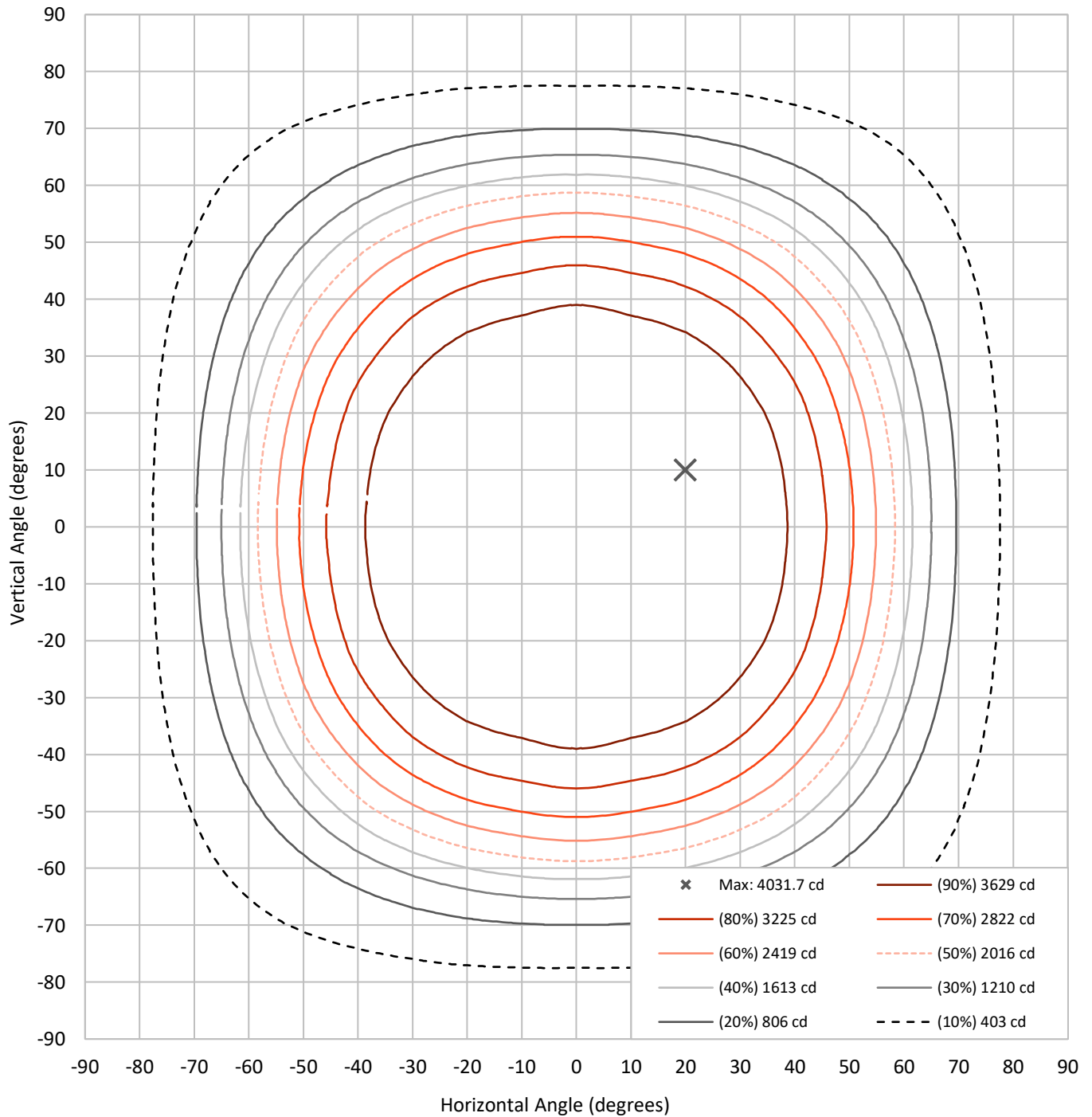
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7589.6 lumens	Field Lumens:	9098.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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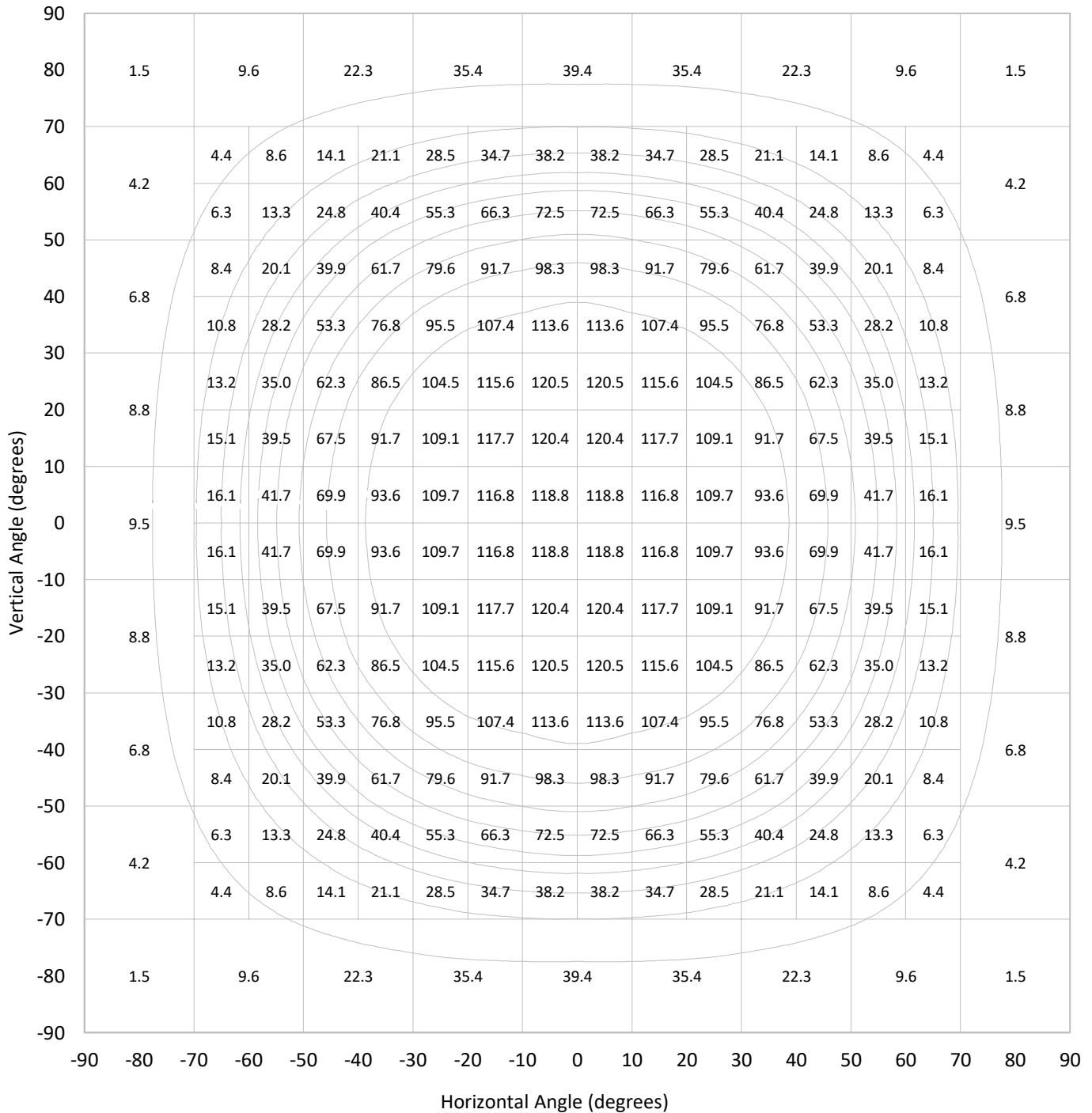
### Iso-Candela Plot





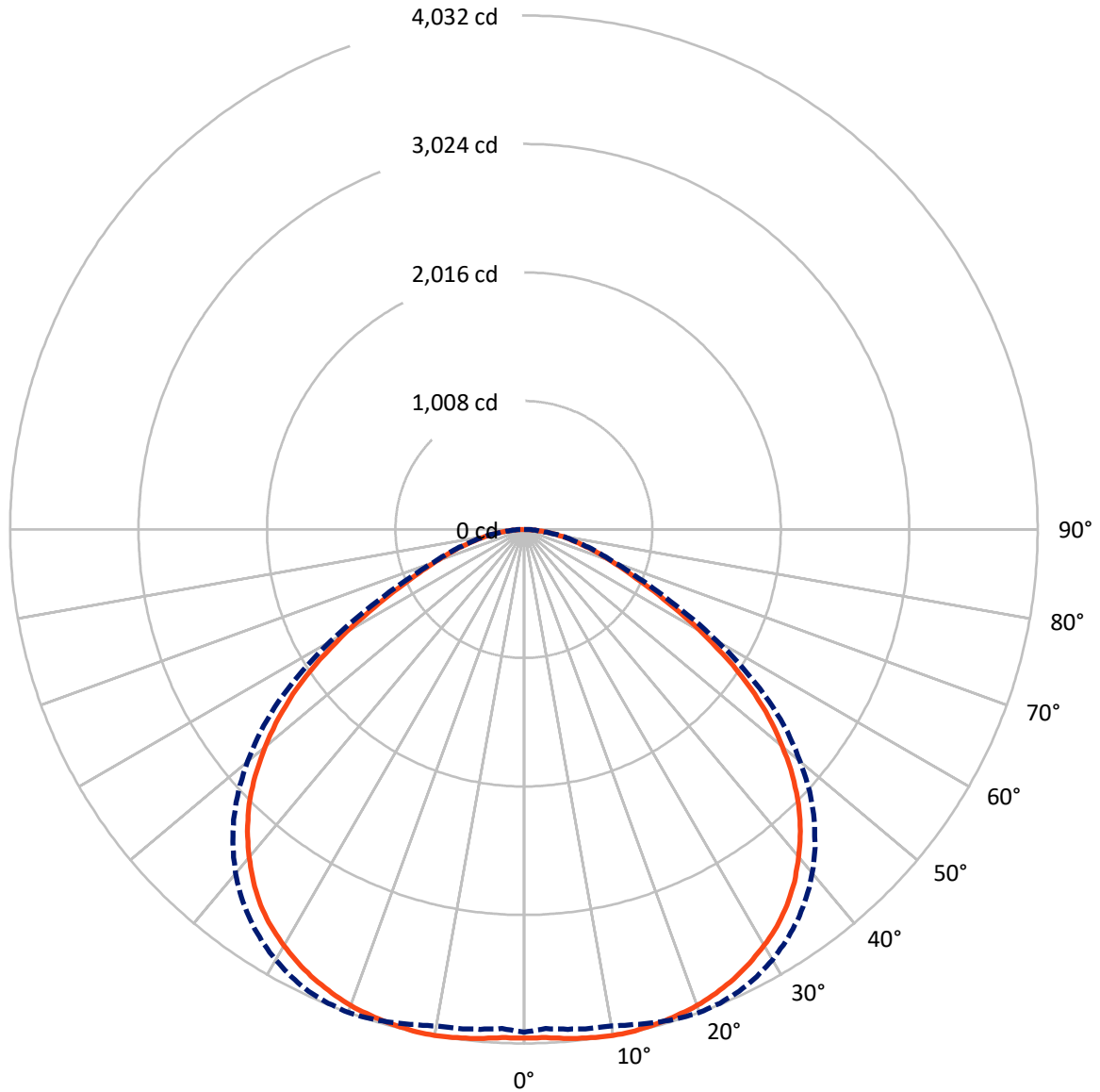
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### Lumen Table



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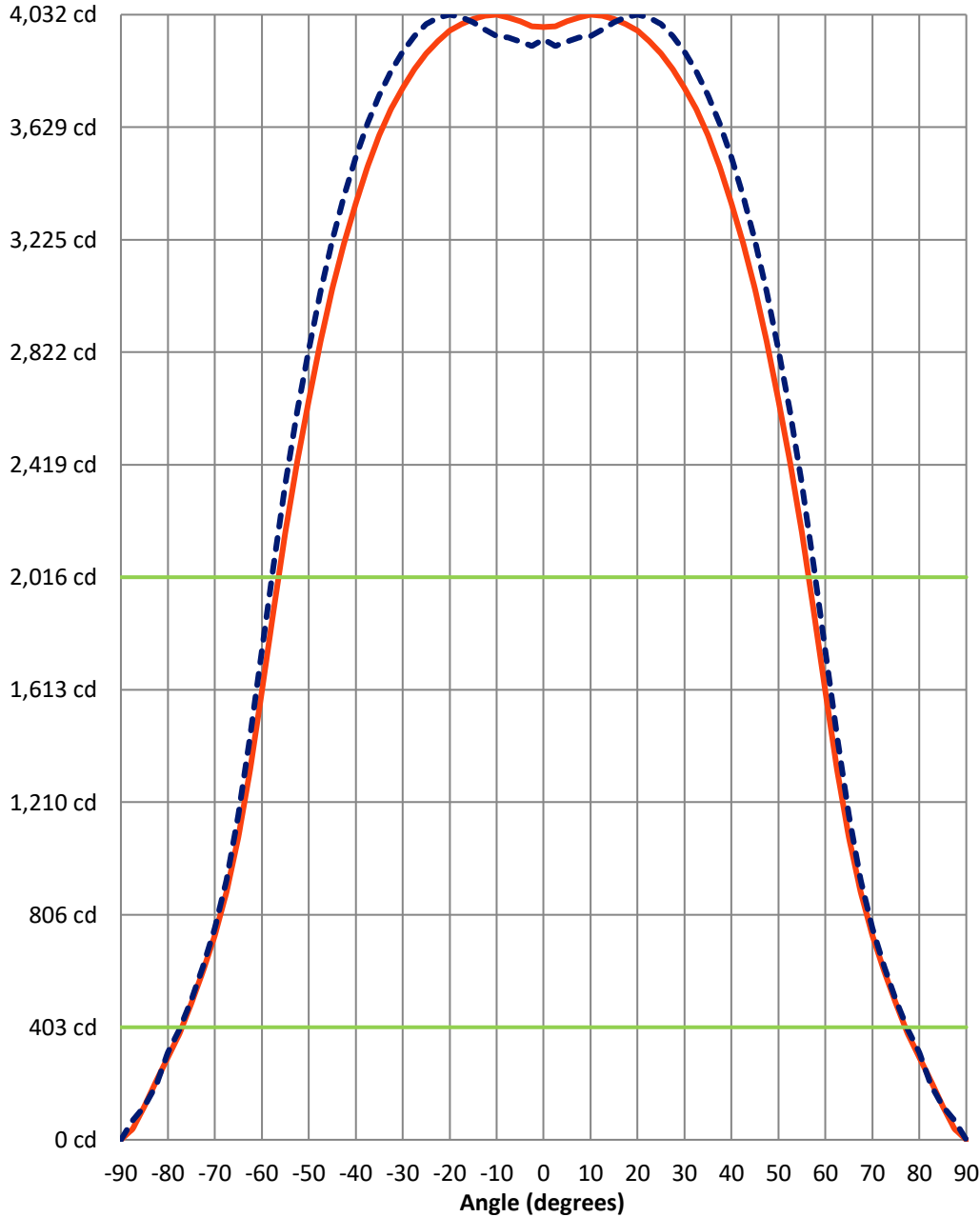
### Luminous Intensity Polar Plot



— 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: 7589.6  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 9098.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3269.9  
 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°	32.5	35.1	36.4	37.7	39.0	40.3	41.6	40.3	39.0	39.0	37.7
85°	87.2	89.8	91.1	100.2	109.3	114.5	121.0	119.7	119.7	118.4	117.1
82.5°	174.4	182.2	188.7	197.8	203.0	210.8	216.0	212.1	209.5	204.3	200.4
80°	309.7	312.3	313.6	314.9	308.4	307.1	304.5	300.6	295.4	288.9	282.4
77.5°	394.3	396.9	399.5	396.9	395.6	394.3	390.4	386.5	381.3	376.1	368.3
75°	521.9	521.9	521.9	517.9	515.3	511.4	504.9	498.4	489.3	478.9	467.2
72.5°	657.2	655.9	654.6	646.8	640.3	632.5	623.4	615.5	605.1	593.4	577.8
70°	799.0	801.6	802.9	792.5	784.7	774.3	762.6	748.3	732.7	715.8	693.6
67.5°	994.2	991.6	989.0	974.7	964.3	950.0	933.1	912.3	888.8	862.8	831.6
65°	1236.3	1240.2	1232.4	1218.1	1198.6	1175.1	1149.1	1119.2	1084.0	1045.0	1000.8
62.5°	1529.1	1535.6	1526.5	1508.3	1483.6	1452.3	1415.9	1372.9	1324.8	1270.1	1215.5
60°	1862.3	1861.0	1844.0	1819.3	1786.8	1747.7	1707.4	1660.6	1605.9	1542.1	1475.8
57.5°	2168.1	2165.5	2144.7	2119.9	2087.4	2045.8	2002.8	1953.4	1896.1	1828.4	1751.6
55°	2442.7	2440.1	2419.3	2393.2	2359.4	2317.7	2278.7	2231.9	2175.9	2104.3	2022.3
52.5°	2686.0	2687.3	2669.1	2640.5	2604.0	2563.7	2526.0	2479.1	2425.8	2354.2	2274.8
50°	2909.9	2908.6	2889.0	2863.0	2829.2	2790.1	2752.4	2705.6	2649.6	2580.6	2503.8
47.5°	3118.1	3115.5	3093.4	3064.7	3029.6	2995.8	2960.6	2919.0	2860.4	2791.4	2714.7
45°	3292.5	3287.3	3265.1	3237.8	3204.0	3174.0	3142.8	3111.6	3049.1	2985.3	2912.5
42.5°	3442.1	3440.8	3418.7	3391.4	3357.5	3331.5	3302.9	3263.8	3211.8	3153.2	3081.6
40°	3585.3	3574.9	3552.7	3526.7	3495.5	3473.4	3444.7	3405.7	3354.9	3297.7	3228.7
37.5°	3692.0	3693.3	3669.9	3641.2	3613.9	3593.1	3567.1	3530.6	3486.4	3430.4	3361.4
35°	3793.5	3787.0	3767.5	3742.7	3718.0	3694.6	3667.3	3636.0	3599.6	3547.5	3482.5
32.5°	3859.9	3869.0	3845.6	3819.5	3805.2	3787.0	3758.4	3725.8	3693.3	3641.2	3582.7
30°	3932.7	3924.9	3906.7	3884.6	3874.2	3862.5	3837.7	3806.5	3768.8	3721.9	3667.3
27.5°	3983.5	3979.6	3957.5	3936.7	3931.4	3921.0	3901.5	3874.2	3836.4	3790.9	3740.1
25°	4005.6	4008.2	3987.4	3975.7	3975.7	3969.2	3953.6	3930.1	3892.4	3850.8	3801.3
22.5°	4016.0	4013.4	3999.1	3996.5	4003.0	3997.8	3991.3	3970.5	3936.7	3902.8	3861.2
20°	4022.5	4004.3	3991.3	4001.7	4009.5	4008.2	4003.0	3990.0	3974.4	3945.8	3909.3
17.5°	4008.2	3996.5	3980.9	3996.5	4013.4	4014.7	4009.5	4001.7	3997.8	3979.6	3947.1
15°	3973.1	3964.0	3966.6	3982.2	4001.7	4008.2	4012.1	4021.2	4016.0	4001.7	3973.1
12.5°	3949.7	3938.0	3949.7	3965.3	3975.7	3979.6	4010.8	4027.7	4027.7	4014.7	3996.5
10°	3943.2	3919.7	3935.3	3949.7	3954.9	3978.3	4004.3	4022.5	4031.7	4021.2	3997.8
7.5°	3930.1	3914.5	3921.0	3927.5	3957.5	3974.4	3988.7	4008.2	4021.2	4019.9	3999.1
5°	3923.6	3904.1	3906.7	3934.0	3954.9	3966.6	3971.8	3988.7	4008.2	4012.1	3996.5
2.5°	3906.7	3897.6	3917.1	3919.7	3935.3	3944.5	3949.7	3965.3	3990.0	3999.1	3992.6
0°	3897.6	3884.6	3871.6	3882.0	3908.0	3927.5	3935.3	3958.8	3987.4	3996.5	3982.2



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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°	36.4	35.1	33.8	32.5	33.8	33.8	33.8	32.5	33.8	32.5	32.5
85°	113.2	108.0	104.1	98.9	93.7	89.8	84.6	79.4	78.1	76.8	74.2
82.5°	195.2	188.7	182.2	174.4	166.6	157.5	148.4	137.9	135.3	132.7	128.8
80°	274.6	265.5	256.4	247.3	239.5	230.3	219.9	208.2	200.4	193.9	186.1
77.5°	357.9	344.9	331.8	316.2	307.1	298.0	287.6	275.9	264.2	253.8	242.1
75°	452.9	438.6	425.5	409.9	393.0	376.1	359.2	343.6	326.6	311.0	295.4
72.5°	558.3	537.5	516.6	497.1	476.3	455.5	433.4	412.5	391.7	370.9	348.8
70°	668.9	642.9	616.9	590.8	563.5	536.2	510.1	484.1	458.1	430.8	406.0
67.5°	799.0	769.1	735.3	698.8	658.5	623.4	589.5	558.3	527.1	495.8	464.6
65°	961.7	920.1	874.5	825.1	778.2	731.4	681.9	635.1	598.6	562.2	527.1
62.5°	1162.1	1103.6	1039.8	976.0	918.8	857.6	800.3	739.2	681.9	629.9	586.9
60°	1401.6	1322.2	1244.1	1162.1	1082.7	999.5	926.6	851.1	779.5	715.8	653.3
57.5°	1665.8	1573.4	1479.7	1379.5	1271.4	1173.8	1074.9	976.0	891.4	806.9	736.6
55°	1933.8	1836.2	1730.8	1617.6	1499.2	1374.2	1240.2	1129.6	1013.8	914.9	823.8
52.5°	2188.9	2087.4	1978.1	1874.0	1732.1	1589.0	1441.9	1296.2	1160.8	1034.6	924.0
50°	2416.6	2317.7	2212.3	2091.3	1959.9	1807.6	1643.6	1479.7	1319.6	1171.2	1033.3
47.5°	2624.9	2528.6	2423.2	2302.1	2182.4	2013.2	1847.9	1667.1	1488.8	1318.3	1156.9
45°	2820.1	2722.5	2613.2	2497.3	2359.4	2208.4	2037.9	1855.8	1664.5	1473.2	1287.1
42.5°	2997.1	2899.5	2788.8	2669.1	2532.5	2382.8	2217.5	2034.0	1841.4	1633.2	1428.9
40°	3151.9	3056.9	2950.2	2825.3	2697.7	2540.3	2377.6	2203.2	2004.1	1794.6	1569.5
37.5°	3287.3	3198.8	3093.4	2969.7	2834.4	2693.8	2526.0	2351.6	2172.0	1944.3	1713.9
35°	3407.0	3325.0	3217.0	3099.9	2967.1	2818.8	2661.3	2490.8	2296.9	2083.5	1859.7
32.5°	3511.1	3427.8	3328.9	3211.8	3083.0	2943.7	2782.3	2610.6	2427.1	2209.7	1966.4
30°	3599.6	3518.9	3425.2	3314.6	3191.0	3053.0	2895.6	2722.5	2535.1	2319.0	2078.3
27.5°	3676.4	3599.6	3508.5	3405.7	3287.3	3154.5	2995.8	2821.4	2630.1	2421.9	2181.1
25°	3742.7	3668.6	3584.0	3486.4	3369.3	3239.1	3089.5	2907.3	2716.0	2506.4	2268.3
22.5°	3802.6	3731.0	3646.4	3551.4	3444.7	3314.6	3163.6	2982.7	2788.8	2581.9	2347.7
20°	3856.0	3789.6	3706.3	3608.7	3502.0	3370.6	3220.9	3049.1	2853.9	2650.9	2419.3
17.5°	3898.9	3840.3	3757.1	3654.3	3547.5	3420.0	3274.3	3116.8	2909.9	2709.5	2479.1
15°	3928.8	3871.6	3796.1	3692.0	3587.9	3461.7	3315.9	3153.2	2960.6	2756.3	2528.6
12.5°	3949.7	3888.5	3818.2	3721.9	3617.8	3492.9	3351.0	3191.0	3003.6	2798.0	2571.5
10°	3954.9	3898.9	3828.6	3742.7	3641.2	3520.2	3381.0	3222.2	3038.7	2830.5	2606.6
7.5°	3957.5	3904.1	3840.3	3758.4	3658.2	3541.0	3403.1	3246.9	3064.7	2857.8	2632.7
5°	3956.2	3905.4	3848.2	3768.8	3668.6	3552.7	3417.4	3263.8	3083.0	2876.0	2652.2
2.5°	3952.3	3906.7	3853.4	3776.6	3680.3	3565.8	3431.7	3283.4	3102.5	2891.6	2667.8
0°	3962.7	3923.6	3856.0	3774.0	3682.9	3565.8	3430.4	3286.0	3105.1	2890.3	2666.5





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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°	32.5	31.2	31.2	29.9	28.6	27.3	24.7	23.4	20.8	16.9	13.0
85°	70.3	66.4	62.5	59.9	57.3	54.7	50.8	46.8	41.6	33.8	26.0
82.5°	123.6	115.8	108.0	98.9	91.1	83.3	76.8	70.3	62.5	50.8	39.0
80°	177.0	165.3	153.6	140.5	128.8	115.8	104.1	93.7	83.3	67.7	52.1
77.5°	230.3	214.7	197.8	182.2	165.3	148.4	131.4	117.1	101.5	83.3	65.1
75°	279.8	261.6	246.0	223.8	203.0	180.9	158.8	139.2	119.7	97.6	78.1
72.5°	329.2	305.8	283.7	262.9	239.5	212.1	187.4	162.7	137.9	111.9	88.5
70°	378.7	350.1	322.7	298.0	272.0	244.7	214.7	186.1	156.2	124.9	97.6
67.5°	429.5	396.9	365.7	334.5	304.5	273.3	242.1	209.5	174.4	137.9	108.0
65°	485.4	445.1	407.3	372.2	337.1	303.2	268.1	232.9	193.9	152.3	117.1
62.5°	541.4	497.1	452.9	408.6	369.6	331.8	294.1	255.1	212.1	167.9	126.2
60°	601.2	550.5	499.7	450.3	402.1	360.5	318.8	277.2	231.6	182.2	135.3
57.5°	667.6	606.4	549.2	493.2	438.6	389.1	343.6	299.3	248.6	196.5	145.8
55°	743.1	667.6	599.9	537.5	477.6	417.7	368.3	322.7	268.1	210.8	157.5
52.5°	822.5	735.3	653.3	583.0	519.2	451.6	391.7	341.0	287.6	225.1	167.9
50°	914.9	804.2	713.2	627.3	555.7	485.4	416.4	361.8	307.1	242.1	178.3
47.5°	1009.9	887.5	773.0	679.3	594.7	517.9	445.1	380.0	325.3	257.7	188.7
45°	1120.5	966.9	840.7	730.1	632.5	551.8	473.7	399.5	341.0	273.3	199.1
42.5°	1227.2	1060.6	911.0	786.0	675.4	584.3	499.7	420.3	356.6	288.9	208.2
40°	1353.4	1154.3	978.6	839.4	718.4	615.5	525.8	442.5	370.9	303.2	217.3
37.5°	1474.5	1249.3	1060.6	897.9	760.0	646.8	551.8	463.3	383.9	317.5	229.0
35°	1594.2	1354.7	1138.7	952.6	802.9	681.9	577.8	482.8	396.9	329.2	239.5
32.5°	1708.7	1453.6	1218.1	1013.8	849.8	714.5	601.2	501.0	409.9	339.7	249.9
30°	1815.4	1547.3	1296.2	1076.2	892.7	744.4	623.4	519.2	425.5	348.8	260.3
27.5°	1913.0	1638.4	1374.2	1134.8	933.1	771.7	646.8	536.2	438.6	357.9	269.4
25°	2001.5	1720.4	1445.8	1188.2	969.5	801.6	668.9	553.1	450.3	365.7	277.2
22.5°	2084.8	1795.9	1510.9	1241.5	1013.8	831.6	689.7	568.7	462.0	373.5	285.0
20°	2157.7	1864.9	1573.4	1294.9	1052.8	858.9	707.9	583.0	472.4	378.7	292.8
17.5°	2216.2	1926.0	1629.3	1341.7	1086.6	882.3	723.6	596.0	481.5	385.2	298.0
15°	2268.3	1978.1	1676.2	1382.1	1116.6	901.9	737.9	606.4	489.3	389.1	304.5
12.5°	2312.5	2022.3	1716.5	1417.2	1142.6	918.8	749.6	614.2	495.8	393.0	308.4
10°	2349.0	2057.5	1750.3	1444.5	1163.4	931.8	758.7	622.1	501.0	396.9	312.3
7.5°	2376.3	2083.5	1775.1	1467.9	1180.3	940.9	766.5	627.3	506.2	399.5	318.8
5°	2397.1	2105.6	1794.6	1483.6	1193.4	953.9	775.6	633.8	511.4	402.1	318.8
2.5°	2412.7	2123.8	1810.2	1496.6	1203.8	951.3	775.6	632.5	511.4	402.1	317.5
0°	2410.1	2125.1	1808.9	1496.6	1203.8	948.7	775.6	631.2	511.4	402.1	317.5



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.1	6.5	2.6	0.0
85°	19.5	13.0	6.5	0.0
82.5°	28.6	18.2	9.1	0.0
80°	37.7	24.7	11.7	0.0
77.5°	48.2	31.2	15.6	0.0
75°	57.3	36.4	18.2	0.0
72.5°	66.4	42.9	20.8	0.0
70°	74.2	48.2	23.4	0.0
67.5°	82.0	54.7	27.3	0.0
65°	88.5	59.9	29.9	0.0
62.5°	93.7	66.4	32.5	0.0
60°	100.2	71.6	35.1	0.0
57.5°	105.4	75.5	37.7	0.0
55°	110.6	78.1	40.3	0.0
52.5°	115.8	82.0	42.9	0.0
50°	121.0	85.9	45.5	0.0
47.5°	126.2	88.5	46.8	0.0
45°	134.0	92.4	49.5	0.0
42.5°	140.5	95.0	52.1	0.0
40°	147.1	97.6	53.4	0.0
37.5°	153.6	100.2	56.0	0.0
35°	160.1	102.8	57.3	0.0
32.5°	165.3	105.4	58.6	0.0
30°	170.5	108.0	59.9	0.0
27.5°	175.7	109.3	61.2	0.0
25°	179.6	111.9	62.5	0.0
22.5°	183.5	113.2	63.8	0.0
20°	186.1	114.5	65.1	0.0
17.5°	190.0	115.8	66.4	0.0
15°	191.3	117.1	69.0	0.0
12.5°	193.9	118.4	69.0	0.0
10°	195.2	119.7	69.0	0.0
7.5°	197.8	119.7	69.0	0.0
5°	196.5	119.7	69.0	0.0
2.5°	196.5	119.7	69.0	0.0
0°	195.2	119.7	69.0	0.0

(END OF REPORT)