

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: P628194

Luminaire Tested: **IFLD-M-SA4A-727-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628194  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

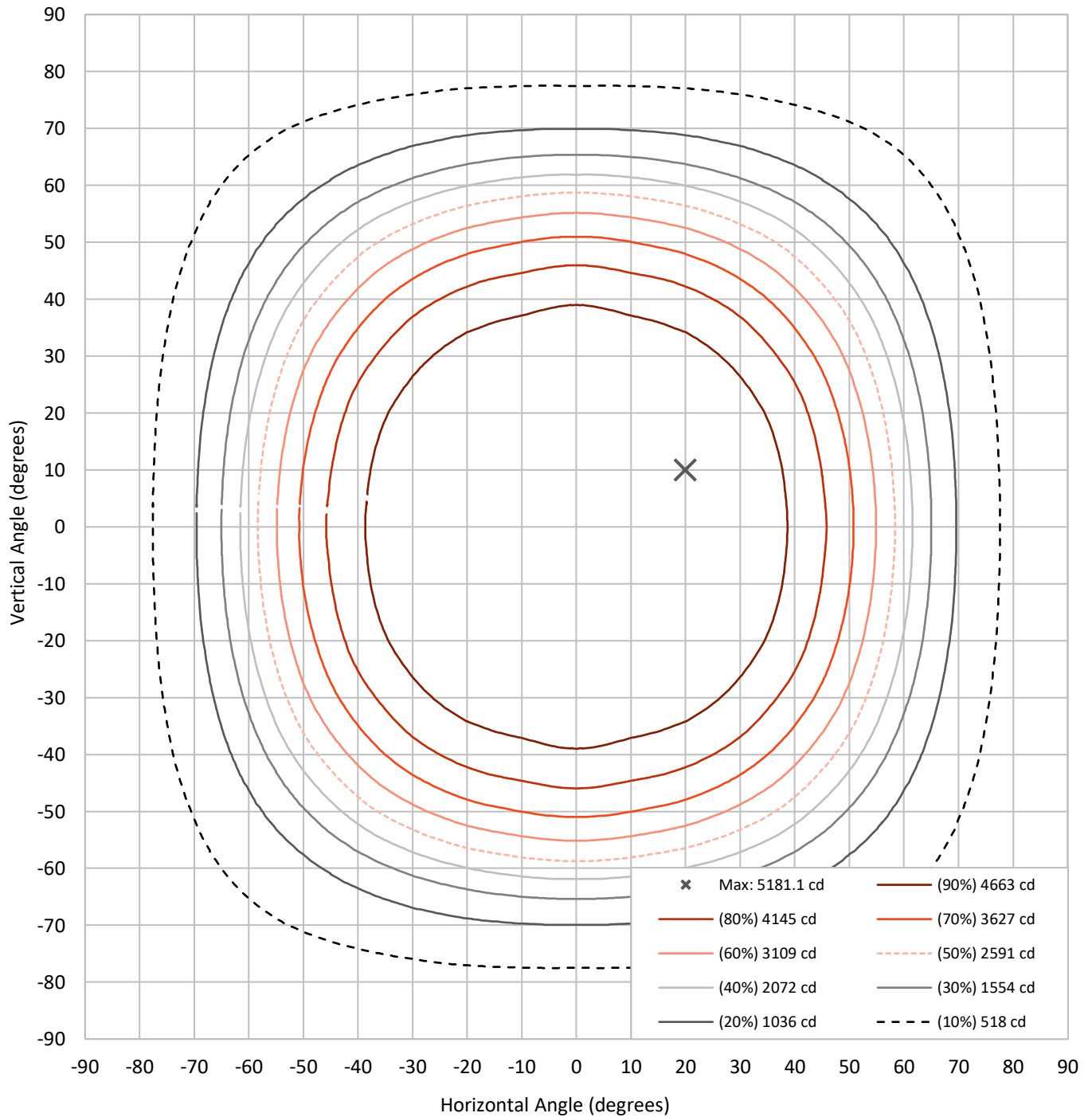
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15894.8 lumens	Max Intensity:	5181.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	123.6 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:	9753.4 lumens	Field Lumens:	11692.6 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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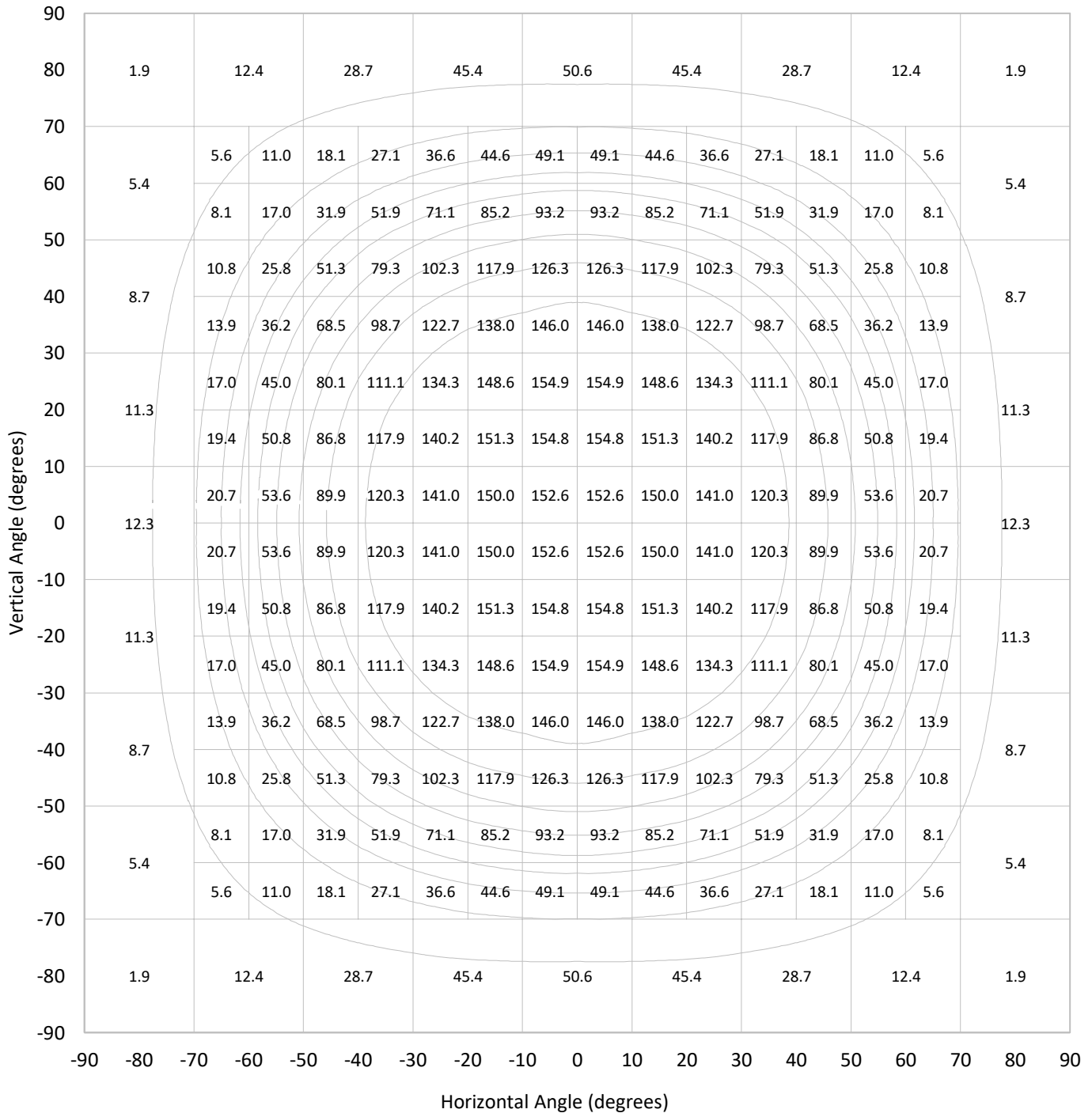
### Iso-Candela Plot





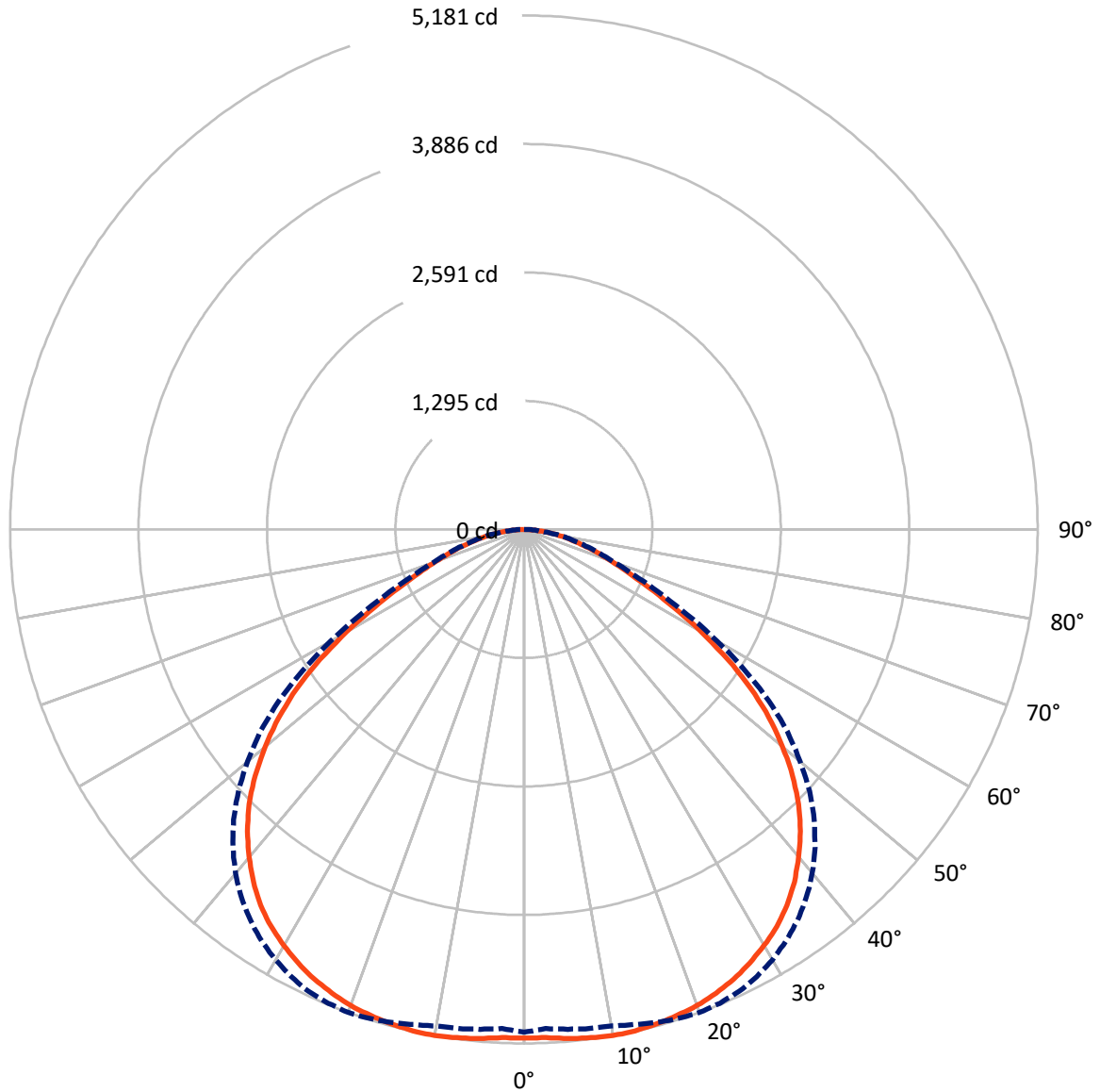
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### Lumen Table



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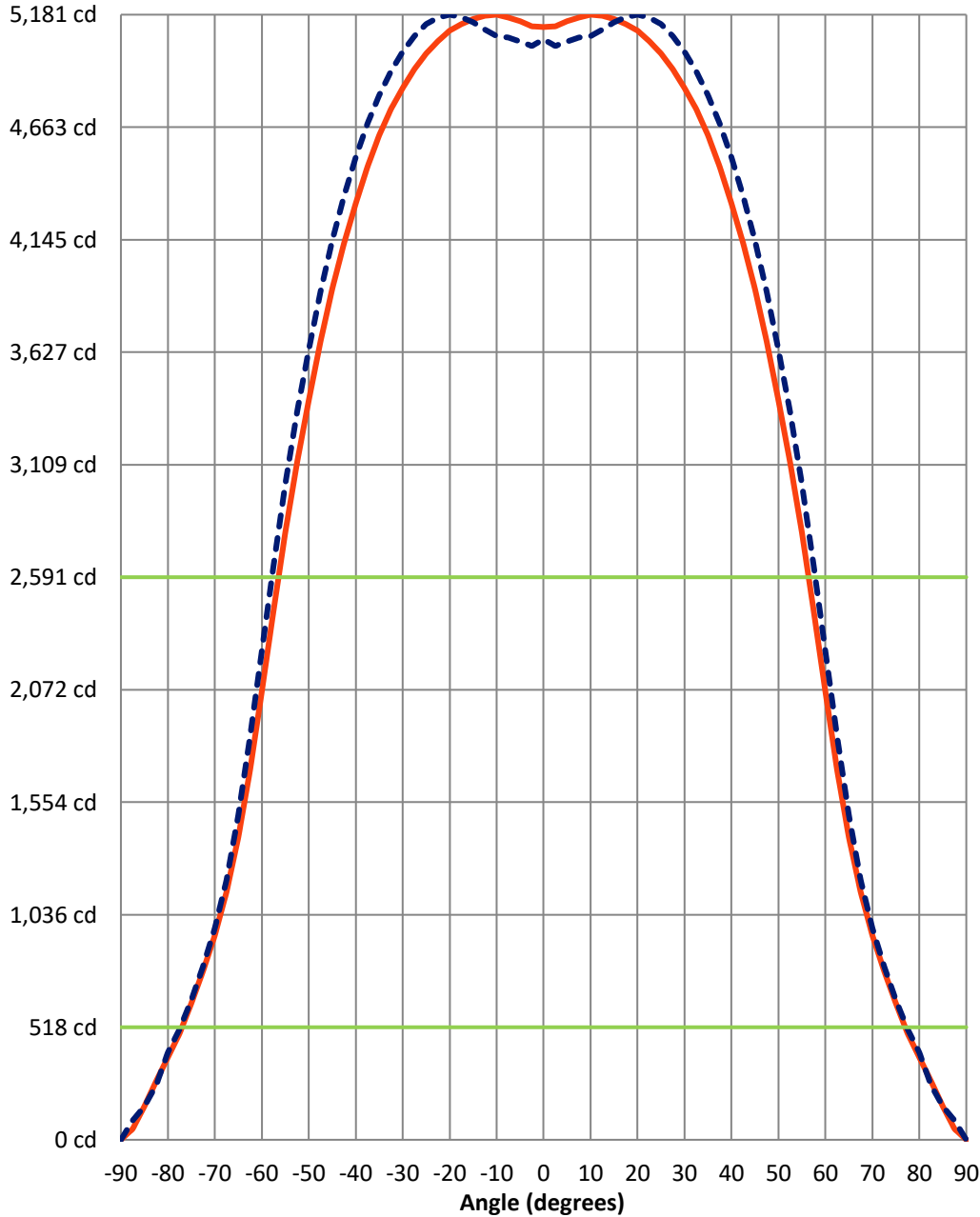
### Luminous Intensity Polar Plot



— 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: 9753.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 11692.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4202.2  
 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°	41.8	45.2	46.8	48.5	50.2	51.8	53.5	51.8	50.2	50.2	48.5
85°	112.1	115.4	117.1	128.8	140.5	147.2	155.5	153.9	153.9	152.2	150.5
82.5°	224.1	234.1	242.5	254.2	260.9	270.9	277.6	272.6	269.3	262.6	257.5
80°	398.0	401.4	403.0	404.7	396.4	394.7	391.3	386.3	379.6	371.3	362.9
77.5°	506.7	510.1	513.4	510.1	508.4	506.7	501.7	496.7	490.0	483.3	473.3
75°	670.6	670.6	670.6	665.6	662.3	657.2	648.9	640.5	628.8	615.4	600.4
72.5°	844.6	842.9	841.2	831.2	822.8	812.8	801.1	791.0	777.7	762.6	742.5
70°	1026.8	1030.2	1031.9	1018.5	1008.5	995.1	980.0	961.6	941.6	919.8	891.4
67.5°	1277.7	1274.4	1271.0	1252.6	1239.2	1220.8	1199.1	1172.3	1142.2	1108.8	1068.7
65°	1588.8	1593.8	1583.8	1565.4	1540.3	1510.2	1476.7	1438.3	1393.1	1342.9	1286.1
62.5°	1965.1	1973.4	1961.7	1938.3	1906.5	1866.4	1819.6	1764.4	1702.5	1632.3	1562.0
60°	2393.2	2391.5	2369.8	2338.0	2296.2	2246.0	2194.2	2134.0	2063.7	1981.8	1896.5
57.5°	2786.2	2782.9	2756.1	2724.3	2682.5	2629.0	2573.8	2510.3	2436.7	2349.7	2251.0
55°	3139.1	3135.7	3109.0	3075.5	3032.0	2978.5	2928.4	2868.1	2796.2	2704.3	2598.9
52.5°	3451.8	3453.5	3430.1	3393.3	3346.4	3294.6	3246.1	3185.9	3117.3	3025.4	2923.3
50°	3739.5	3737.8	3712.7	3679.3	3635.8	3585.6	3537.1	3476.9	3405.0	3316.3	3217.7
47.5°	4007.0	4003.7	3975.3	3938.5	3893.3	3849.8	3804.7	3751.2	3675.9	3587.3	3488.6
45°	4231.1	4224.5	4196.0	4160.9	4117.4	4079.0	4038.8	3998.7	3918.4	3836.5	3742.8
42.5°	4423.5	4421.8	4393.4	4358.2	4314.8	4281.3	4244.5	4194.4	4127.5	4052.2	3960.2
40°	4607.4	4594.1	4565.6	4532.2	4492.0	4463.6	4426.8	4376.6	4311.4	4237.8	4149.2
37.5°	4744.6	4746.2	4716.1	4679.3	4644.2	4617.5	4584.0	4537.2	4480.3	4408.4	4319.8
35°	4875.0	4866.7	4841.6	4809.8	4778.0	4747.9	4712.8	4672.7	4625.8	4558.9	4475.3
32.5°	4960.3	4972.0	4941.9	4908.5	4890.1	4866.7	4829.9	4788.0	4746.2	4679.3	4604.1
30°	5054.0	5043.9	5020.5	4992.1	4978.7	4963.6	4931.9	4891.7	4843.2	4783.0	4712.8
27.5°	5119.2	5114.2	5085.7	5059.0	5052.3	5038.9	5013.8	4978.7	4930.2	4871.7	4806.4
25°	5147.6	5151.0	5124.2	5109.1	5109.1	5100.8	5080.7	5050.6	5002.1	4948.6	4885.0
22.5°	5161.0	5157.6	5139.2	5135.9	5144.3	5137.6	5129.2	5102.5	5059.0	5015.5	4962.0
20°	5169.4	5145.9	5129.2	5142.6	5152.6	5151.0	5144.3	5127.5	5107.5	5070.7	5023.9
17.5°	5151.0	5135.9	5115.8	5135.9	5157.6	5159.3	5152.6	5142.6	5137.6	5114.2	5072.4
15°	5105.8	5094.1	5097.4	5117.5	5142.6	5151.0	5156.0	5167.7	5161.0	5142.6	5105.8
12.5°	5075.7	5060.6	5075.7	5095.8	5109.1	5114.2	5154.3	5176.0	5176.0	5159.3	5135.9
10°	5067.3	5037.2	5057.3	5075.7	5082.4	5112.5	5145.9	5169.4	5181.1	5167.7	5137.6
7.5°	5050.6	5030.5	5038.9	5047.3	5085.7	5107.5	5125.9	5151.0	5167.7	5166.0	5139.2
5°	5042.3	5017.2	5020.5	5055.6	5082.4	5097.4	5104.1	5125.9	5151.0	5156.0	5135.9
2.5°	5020.5	5008.8	5033.9	5037.2	5057.3	5069.0	5075.7	5095.8	5127.5	5139.2	5130.9
0°	5008.8	4992.1	4975.4	4988.7	5022.2	5047.3	5057.3	5087.4	5124.2	5135.9	5117.5



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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°	46.8	45.2	43.5	41.8	43.5	43.5	43.5	41.8	43.5	41.8	41.8
85°	145.5	138.8	133.8	127.1	120.4	115.4	108.7	102.0	100.3	98.7	95.3
82.5°	250.9	242.5	234.1	224.1	214.1	202.4	190.7	177.3	173.9	170.6	165.6
80°	352.9	341.2	329.5	317.8	307.7	296.0	282.6	267.6	257.5	249.2	239.2
77.5°	459.9	443.2	426.5	406.4	394.7	383.0	369.6	354.5	339.5	326.1	311.1
75°	582.0	563.6	546.9	526.8	505.1	483.3	461.6	441.5	419.8	399.7	379.6
72.5°	717.5	690.7	663.9	638.9	612.1	585.3	556.9	530.1	503.4	476.6	448.2
70°	859.6	826.2	792.7	759.3	724.1	689.0	655.6	622.1	588.7	553.6	521.8
67.5°	1026.8	988.4	944.9	898.1	846.2	801.1	757.6	717.5	677.3	637.2	597.0
65°	1235.9	1182.4	1123.8	1060.3	1000.1	939.9	876.3	816.1	769.3	722.5	677.3
62.5°	1493.4	1418.2	1336.2	1254.3	1180.7	1102.1	1028.5	949.9	876.3	809.4	754.2
60°	1801.2	1699.1	1598.8	1493.4	1391.4	1284.4	1190.7	1093.7	1001.8	919.8	839.5
57.5°	2140.7	2021.9	1901.5	1772.7	1633.9	1508.5	1381.4	1254.3	1145.6	1036.9	946.6
55°	2485.2	2359.7	2224.3	2078.8	1926.6	1766.0	1593.8	1451.6	1302.8	1175.7	1058.6
52.5°	2813.0	2682.5	2542.0	2408.2	2225.9	2042.0	1853.0	1665.7	1491.8	1329.5	1187.4
50°	3105.6	2978.5	2843.1	2687.5	2518.6	2322.9	2112.2	1901.5	1695.8	1505.1	1327.9
47.5°	3373.2	3249.5	3114.0	2958.5	2804.6	2587.2	2374.8	2142.3	1913.2	1694.1	1486.8
45°	3624.1	3498.6	3358.2	3209.3	3032.0	2838.0	2619.0	2384.8	2139.0	1893.1	1654.0
42.5°	3851.5	3726.1	3583.9	3430.1	3254.5	3062.1	2849.7	2613.9	2366.4	2098.8	1836.3
40°	4050.5	3928.4	3791.3	3630.8	3466.9	3264.5	3055.5	2831.4	2575.5	2306.2	2016.9
37.5°	4224.5	4110.7	3975.3	3816.4	3642.5	3461.8	3246.1	3022.0	2791.2	2498.5	2202.5
35°	4378.3	4273.0	4134.1	3983.6	3813.0	3622.4	3420.0	3201.0	2951.8	2677.5	2389.8
32.5°	4512.1	4405.1	4278.0	4127.5	3961.9	3782.9	3575.6	3354.8	3119.0	2839.7	2527.0
30°	4625.8	4522.1	4401.7	4259.6	4100.7	3923.4	3721.1	3498.6	3257.8	2980.2	2670.8
27.5°	4724.5	4625.8	4508.8	4376.6	4224.5	4053.9	3849.8	3625.7	3379.9	3112.3	2802.9
25°	4809.8	4714.5	4605.8	4480.3	4329.8	4162.6	3970.3	3736.1	3490.3	3221.0	2915.0
22.5°	4886.7	4794.7	4686.0	4563.9	4426.8	4259.6	4065.6	3833.1	3583.9	3318.0	3017.0
20°	4955.3	4870.0	4763.0	4637.5	4500.4	4331.5	4139.2	3918.4	3667.5	3406.7	3109.0
17.5°	5010.5	4935.2	4828.2	4696.1	4558.9	4395.0	4207.7	4005.4	3739.5	3481.9	3185.9
15°	5048.9	4975.4	4878.4	4744.6	4610.8	4448.6	4261.2	4052.2	3804.7	3542.1	3249.5
12.5°	5075.7	4997.1	4906.8	4783.0	4649.2	4488.7	4306.4	4100.7	3859.9	3595.6	3304.6
10°	5082.4	5010.5	4920.2	4809.8	4679.3	4523.8	4344.9	4140.8	3905.0	3637.4	3349.8
7.5°	5085.7	5017.2	4935.2	4829.9	4701.1	4550.6	4373.3	4172.6	3938.5	3672.6	3383.2
5°	5084.1	5018.8	4945.3	4843.2	4714.5	4565.6	4391.7	4194.4	3961.9	3696.0	3408.3
2.5°	5079.0	5020.5	4951.9	4853.3	4729.5	4582.3	4410.1	4219.4	3987.0	3716.0	3428.4
0°	5092.4	5042.3	4955.3	4849.9	4732.9	4582.3	4408.4	4222.8	3990.3	3714.4	3426.7





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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°	41.8	40.1	40.1	38.5	36.8	35.1	31.8	30.1	26.8	21.7	16.7
85°	90.3	85.3	80.3	76.9	73.6	70.2	65.2	60.2	53.5	43.5	33.4
82.5°	158.9	148.8	138.8	127.1	117.1	107.0	98.7	90.3	80.3	65.2	50.2
80°	227.4	212.4	197.3	180.6	165.6	148.8	133.8	120.4	107.0	87.0	66.9
77.5°	296.0	275.9	254.2	234.1	212.4	190.7	168.9	150.5	130.4	107.0	83.6
75°	359.6	336.2	316.1	287.7	260.9	232.5	204.0	178.9	153.9	125.4	100.3
72.5°	423.1	393.0	364.6	337.8	307.7	272.6	240.8	209.0	177.3	143.8	113.7
70°	486.7	449.9	414.8	383.0	349.5	314.4	275.9	239.2	200.7	160.5	125.4
67.5°	551.9	510.1	469.9	429.8	391.3	351.2	311.1	269.3	224.1	177.3	138.8
65°	623.8	572.0	523.5	478.3	433.1	389.7	344.5	299.4	249.2	195.7	150.5
62.5°	695.7	638.9	582.0	525.1	475.0	426.5	378.0	327.8	272.6	215.7	162.2
60°	772.6	707.4	642.2	578.6	516.8	463.3	409.7	356.2	297.7	234.1	173.9
57.5°	857.9	779.3	705.7	633.8	563.6	500.0	441.5	384.6	319.4	252.5	187.3
55°	954.9	857.9	771.0	690.7	613.8	536.8	473.3	414.8	344.5	270.9	202.4
52.5°	1056.9	944.9	839.5	749.2	667.3	580.3	503.4	438.2	369.6	289.3	215.7
50°	1175.7	1033.5	916.5	806.1	714.1	623.8	535.2	464.9	394.7	311.1	229.1
47.5°	1297.8	1140.6	993.4	873.0	764.3	665.6	572.0	488.3	418.1	331.1	242.5
45°	1439.9	1242.6	1080.4	938.2	812.8	709.1	608.7	513.4	438.2	351.2	255.9
42.5°	1577.1	1363.0	1170.7	1010.1	868.0	750.9	642.2	540.2	458.2	371.3	267.6
40°	1739.3	1483.4	1257.6	1078.7	923.2	791.0	675.6	568.6	476.6	389.7	279.3
37.5°	1894.8	1605.5	1363.0	1153.9	976.7	831.2	709.1	595.4	493.4	408.1	294.3
35°	2048.7	1741.0	1463.3	1224.2	1031.9	876.3	742.5	620.5	510.1	423.1	307.7
32.5°	2195.8	1868.1	1565.4	1302.8	1092.1	918.1	772.6	643.9	526.8	436.5	321.1
30°	2333.0	1988.5	1665.7	1383.1	1147.3	956.6	801.1	667.3	546.9	448.2	334.5
27.5°	2458.4	2105.5	1766.0	1458.3	1199.1	991.7	831.2	689.0	563.6	459.9	346.2
25°	2572.1	2210.9	1858.0	1526.9	1245.9	1030.2	859.6	710.8	578.6	469.9	356.2
22.5°	2679.2	2307.9	1941.6	1595.5	1302.8	1068.7	886.4	730.8	593.7	480.0	366.3
20°	2772.8	2396.5	2021.9	1664.0	1353.0	1103.8	909.8	749.2	607.1	486.7	376.3
17.5°	2848.1	2475.1	2093.8	1724.2	1396.4	1133.9	929.8	766.0	618.8	495.0	383.0
15°	2915.0	2542.0	2154.0	1776.1	1434.9	1159.0	948.2	779.3	628.8	500.0	391.3
12.5°	2971.8	2598.9	2205.9	1821.2	1468.4	1180.7	963.3	789.4	637.2	505.1	396.4
10°	3018.7	2644.0	2249.4	1856.4	1495.1	1197.4	975.0	799.4	643.9	510.1	401.4
7.5°	3053.8	2677.5	2281.1	1886.5	1516.9	1209.1	985.0	806.1	650.6	513.4	409.7
5°	3080.5	2705.9	2306.2	1906.5	1533.6	1225.9	996.7	814.5	657.2	516.8	409.7
2.5°	3100.6	2729.3	2326.3	1923.2	1547.0	1222.5	996.7	812.8	657.2	516.8	408.1
0°	3097.3	2731.0	2324.6	1923.2	1547.0	1219.2	996.7	811.1	657.2	516.8	408.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	8.4	3.3	0.0
85°	25.1	16.7	8.4	0.0
82.5°	36.8	23.4	11.7	0.0
80°	48.5	31.8	15.1	0.0
77.5°	61.9	40.1	20.1	0.0
75°	73.6	46.8	23.4	0.0
72.5°	85.3	55.2	26.8	0.0
70°	95.3	61.9	30.1	0.0
67.5°	105.4	70.2	35.1	0.0
65°	113.7	76.9	38.5	0.0
62.5°	120.4	85.3	41.8	0.0
60°	128.8	92.0	45.2	0.0
57.5°	135.5	97.0	48.5	0.0
55°	142.2	100.3	51.8	0.0
52.5°	148.8	105.4	55.2	0.0
50°	155.5	110.4	58.5	0.0
47.5°	162.2	113.7	60.2	0.0
45°	172.3	118.7	63.6	0.0
42.5°	180.6	122.1	66.9	0.0
40°	189.0	125.4	68.6	0.0
37.5°	197.3	128.8	71.9	0.0
35°	205.7	132.1	73.6	0.0
32.5°	212.4	135.5	75.3	0.0
30°	219.1	138.8	76.9	0.0
27.5°	225.8	140.5	78.6	0.0
25°	230.8	143.8	80.3	0.0
22.5°	235.8	145.5	81.9	0.0
20°	239.2	147.2	83.6	0.0
17.5°	244.2	148.8	85.3	0.0
15°	245.8	150.5	88.6	0.0
12.5°	249.2	152.2	88.6	0.0
10°	250.9	153.9	88.6	0.0
7.5°	254.2	153.9	88.6	0.0
5°	252.5	153.9	88.6	0.0
2.5°	252.5	153.9	88.6	0.0
0°	250.9	153.9	88.6	0.0

(END OF REPORT)