

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: P628223

Luminaire Tested: **IFLD-M-SA4A-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628223
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

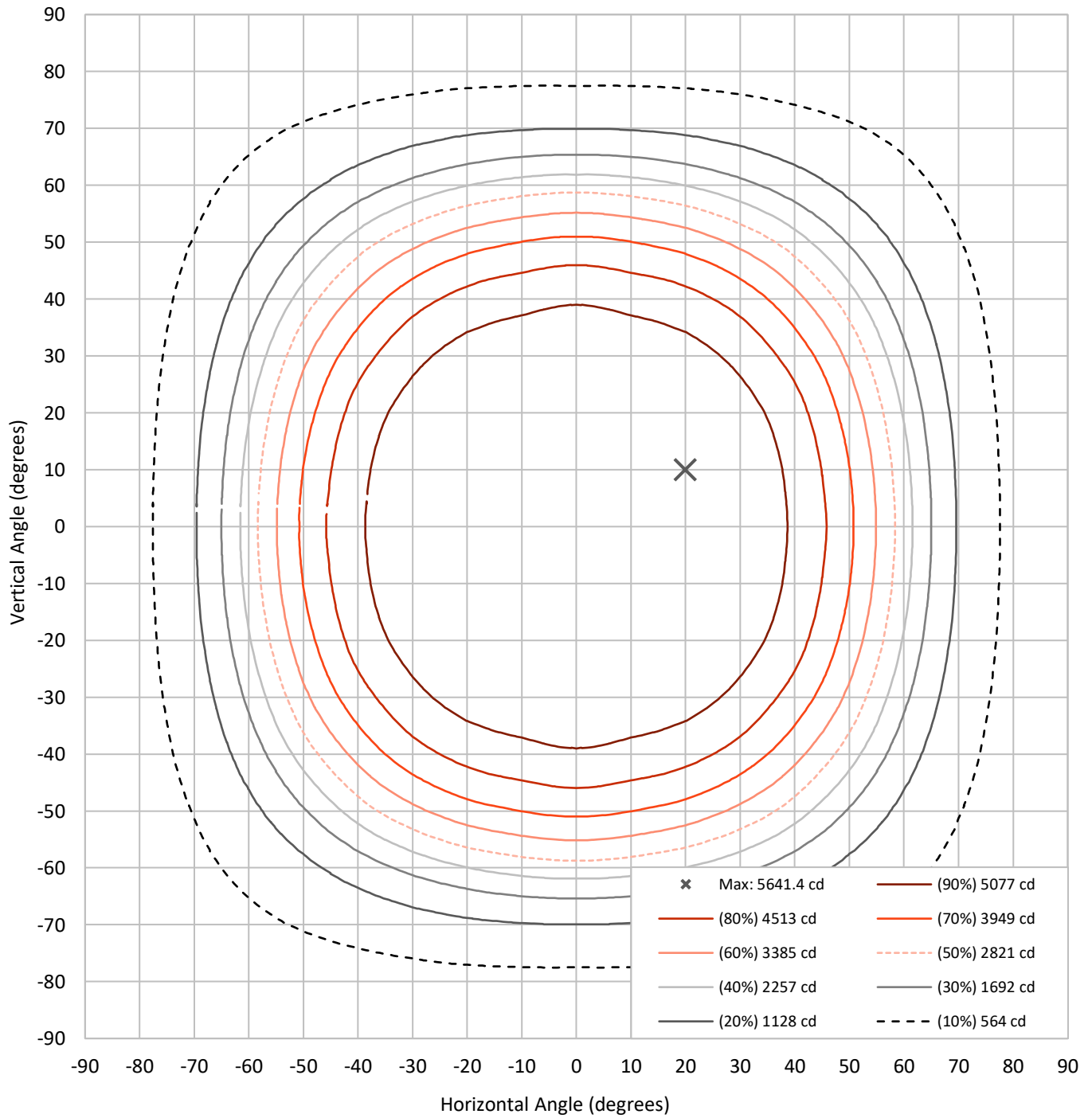
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17306.9 lumens	Max Intensity:	5641.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	134.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10619.9 lumens	Field Lumens:	12731.4 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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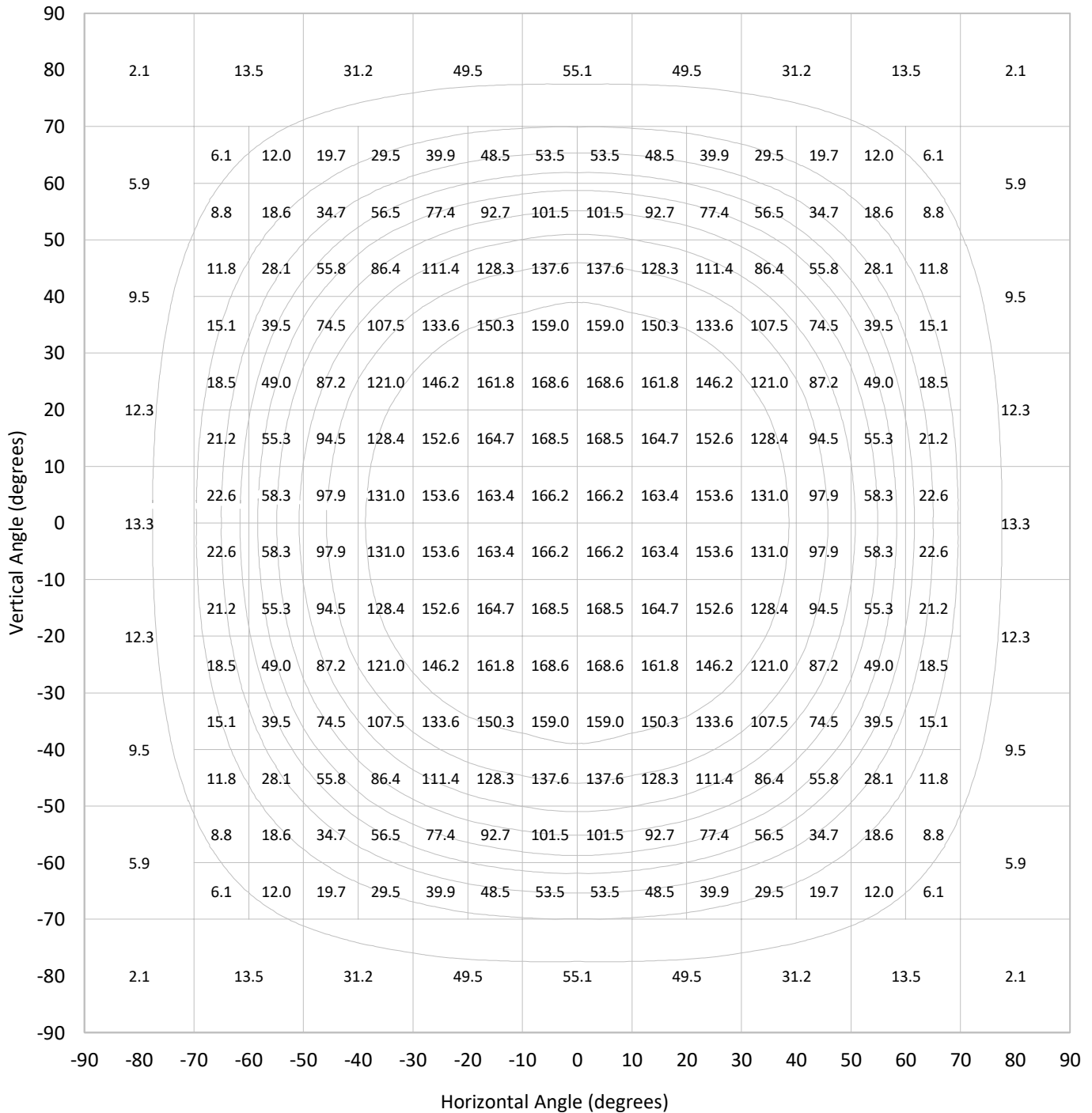
Iso-Candela Plot





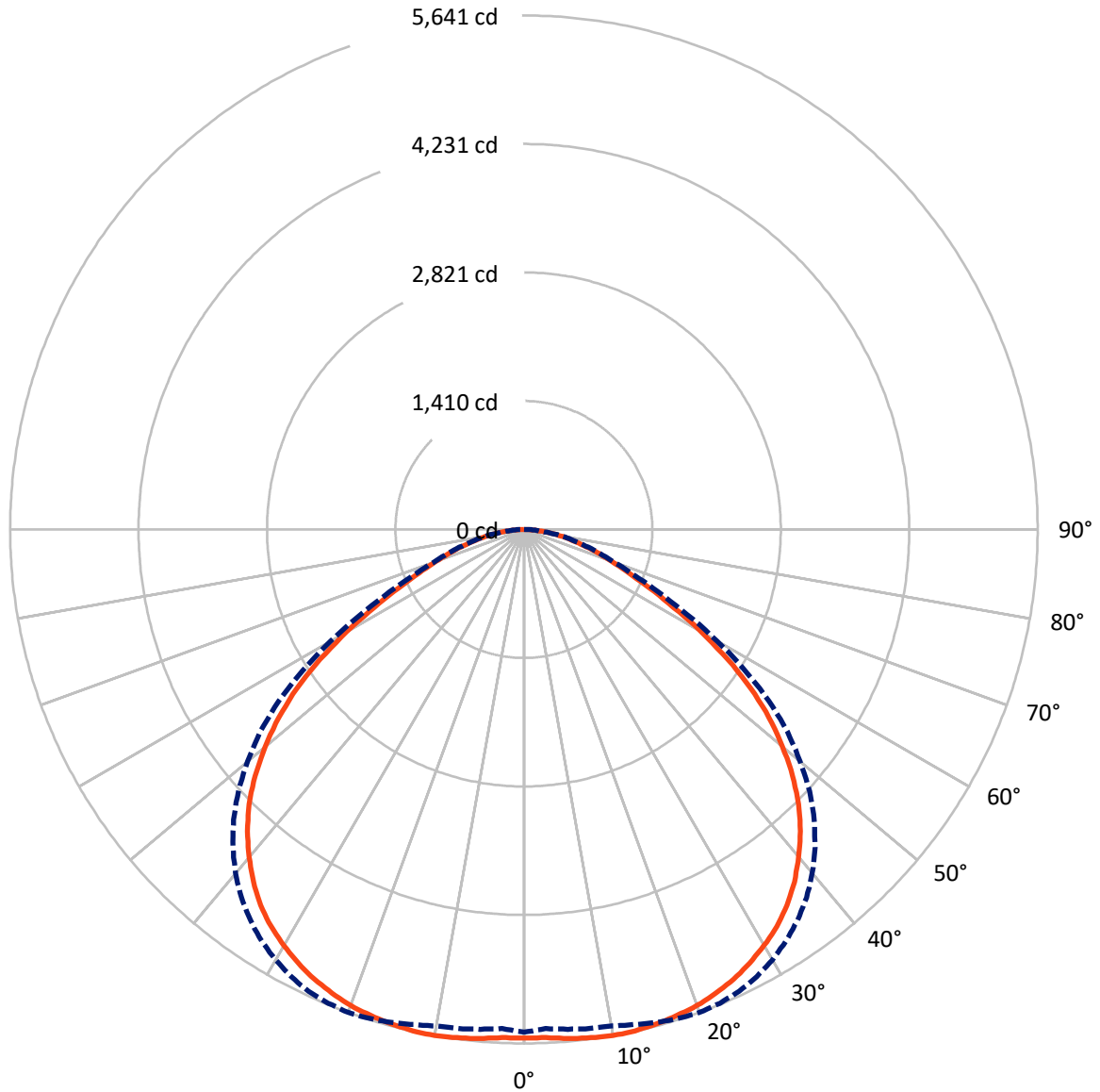
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Lumen Table



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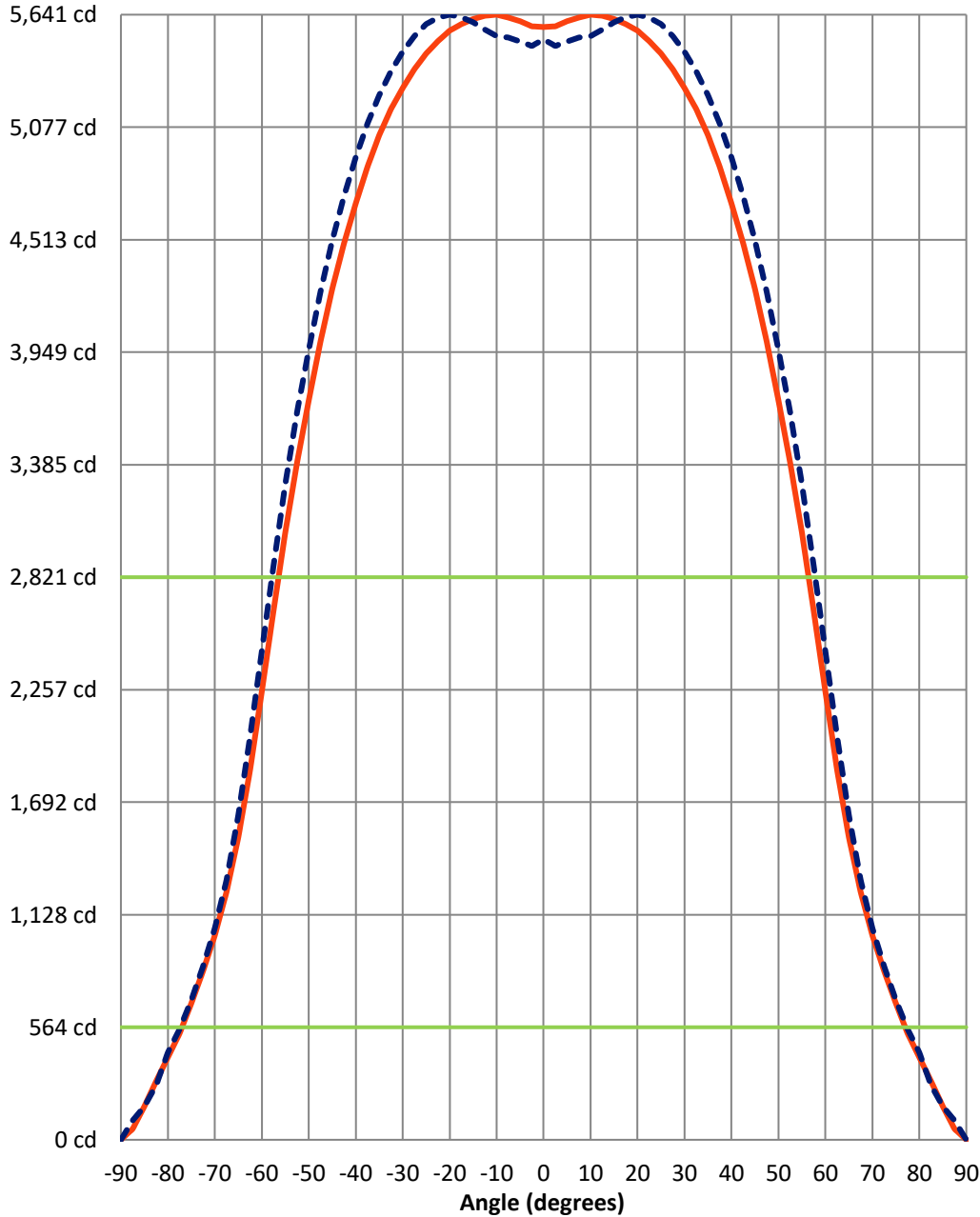
Luminous Intensity Polar Plot



— 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: 10619.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12731.4
 Efficiency: 73.6%

Spill:
 Lumens: 4575.5
 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°	45.5	49.2	51.0	52.8	54.6	56.5	58.3	56.5	54.6	54.6	52.8
85°	122.0	125.6	127.5	140.2	153.0	160.2	169.4	167.5	167.5	165.7	163.9
82.5°	244.0	254.9	264.0	276.8	284.1	295.0	302.3	296.8	293.2	285.9	280.4
80°	433.4	437.0	438.9	440.7	431.6	429.7	426.1	420.6	413.4	404.3	395.2
77.5°	551.8	555.4	559.0	555.4	553.6	551.8	546.3	540.8	533.5	526.3	515.3
75°	730.2	730.2	730.2	724.7	721.1	715.6	706.5	697.4	684.7	670.1	653.7
72.5°	919.6	917.8	915.9	905.0	895.9	885.0	872.2	861.3	846.8	830.4	808.5
70°	1118.1	1121.7	1123.5	1109.0	1098.0	1083.5	1067.1	1047.1	1025.2	1001.5	970.6
67.5°	1391.2	1387.6	1383.9	1363.9	1349.3	1329.3	1305.6	1276.5	1243.7	1207.3	1163.6
65°	1729.9	1735.4	1724.5	1704.4	1677.1	1644.3	1607.9	1566.0	1516.9	1462.2	1400.3
62.5°	2139.6	2148.7	2136.0	2110.5	2075.9	2032.2	1981.2	1921.1	1853.7	1777.3	1700.8
60°	2605.8	2604.0	2580.3	2545.7	2500.2	2445.6	2389.1	2323.6	2247.1	2157.8	2065.0
57.5°	3033.7	3030.1	3001.0	2966.4	2920.8	2862.6	2802.5	2733.3	2653.2	2558.5	2451.0
55°	3418.0	3414.3	3385.2	3348.8	3301.4	3243.1	3188.5	3123.0	3044.7	2944.5	2829.8
52.5°	3758.5	3760.3	3734.8	3694.7	3643.8	3587.3	3534.5	3468.9	3394.3	3294.1	3183.1
50°	4071.7	4069.9	4042.6	4006.1	3958.8	3904.2	3851.4	3785.8	3707.5	3611.0	3503.5
47.5°	4363.0	4359.4	4328.4	4288.4	4239.2	4191.9	4142.7	4084.4	4002.5	3906.0	3798.5
45°	4607.1	4599.8	4568.8	4530.6	4483.2	4441.3	4397.6	4353.9	4266.5	4177.3	4075.3
42.5°	4816.5	4814.6	4783.7	4745.4	4698.1	4661.7	4621.6	4567.0	4494.2	4412.2	4312.1
40°	5016.8	5002.2	4971.2	4934.8	4891.1	4860.2	4820.1	4765.5	4694.5	4614.3	4517.8
37.5°	5166.1	5167.9	5135.1	5095.1	5056.8	5027.7	4991.3	4940.3	4878.4	4800.1	4703.6
35°	5308.1	5299.0	5271.7	5237.1	5202.5	5169.7	5131.5	5087.8	5036.8	4964.0	4872.9
32.5°	5401.0	5413.7	5381.0	5344.5	5324.5	5299.0	5259.0	5213.4	5167.9	5095.1	5013.1
30°	5503.0	5492.0	5466.6	5435.6	5421.0	5404.6	5370.0	5326.3	5273.5	5208.0	5131.5
27.5°	5574.0	5568.5	5537.6	5508.4	5501.1	5486.6	5459.3	5421.0	5368.2	5304.5	5233.5
25°	5604.9	5608.6	5579.5	5563.1	5563.1	5554.0	5532.1	5499.3	5446.5	5388.2	5319.1
22.5°	5619.5	5615.9	5595.8	5592.2	5601.3	5594.0	5584.9	5555.8	5508.4	5461.1	5402.8
20°	5628.6	5603.1	5584.9	5599.5	5610.4	5608.6	5601.3	5583.1	5561.2	5521.2	5470.2
17.5°	5608.6	5592.2	5570.3	5592.2	5615.9	5617.7	5610.4	5599.5	5594.0	5568.5	5523.0
15°	5559.4	5546.7	5550.3	5572.2	5599.5	5608.6	5614.0	5626.8	5619.5	5599.5	5559.4
12.5°	5526.6	5510.3	5526.6	5548.5	5563.1	5568.5	5612.2	5635.9	5635.9	5617.7	5592.2
10°	5517.5	5484.8	5506.6	5526.6	5533.9	5566.7	5603.1	5628.6	5641.4	5626.8	5594.0
7.5°	5499.3	5477.5	5486.6	5495.7	5537.6	5561.2	5581.3	5608.6	5626.8	5625.0	5595.8
5°	5490.2	5462.9	5466.6	5504.8	5533.9	5550.3	5557.6	5581.3	5608.6	5614.0	5592.2
2.5°	5466.6	5453.8	5481.1	5484.8	5506.6	5519.4	5526.6	5548.5	5583.1	5595.8	5586.7
0°	5453.8	5435.6	5417.4	5432.0	5468.4	5495.7	5506.6	5539.4	5579.5	5592.2	5572.2



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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°	51.0	49.2	47.3	45.5	47.3	47.3	47.3	45.5	47.3	45.5	45.5
85°	158.4	151.1	145.7	138.4	131.1	125.6	118.4	111.1	109.3	107.4	103.8
82.5°	273.1	264.0	254.9	244.0	233.1	220.3	207.6	193.0	189.4	185.7	180.3
80°	384.2	371.5	358.7	346.0	335.1	322.3	307.7	291.4	280.4	271.3	260.4
77.5°	500.8	482.6	464.3	442.5	429.7	417.0	402.4	386.0	369.7	355.1	338.7
75°	633.7	613.7	595.5	573.6	549.9	526.3	502.6	480.7	457.1	435.2	413.4
72.5°	781.2	752.1	722.9	695.6	666.5	637.3	606.4	577.2	548.1	519.0	488.0
70°	936.0	899.6	863.1	826.7	788.5	750.2	713.8	677.4	641.0	602.7	568.1
67.5°	1118.1	1076.2	1028.8	977.9	921.4	872.2	824.9	781.2	737.5	693.8	650.1
65°	1345.7	1287.4	1223.7	1154.5	1088.9	1023.4	954.2	888.6	837.6	786.7	737.5
62.5°	1626.1	1544.2	1455.0	1365.7	1285.6	1200.0	1119.9	1034.3	954.2	881.3	821.3
60°	1961.2	1850.1	1740.8	1626.1	1515.0	1398.5	1296.5	1190.9	1090.8	1001.5	914.1
57.5°	2330.8	2201.6	2070.4	1930.2	1779.1	1642.5	1504.1	1365.7	1247.4	1129.0	1030.7
55°	2706.0	2569.4	2421.9	2263.5	2097.8	1922.9	1735.4	1580.6	1418.5	1280.1	1152.7
52.5°	3062.9	2920.8	2767.9	2622.2	2423.7	2223.4	2017.6	1813.7	1624.3	1447.7	1292.9
50°	3381.5	3243.1	3095.6	2926.3	2742.4	2529.3	2299.9	2070.4	1846.5	1638.9	1445.8
47.5°	3672.9	3538.1	3390.6	3221.3	3053.8	2817.0	2585.8	2332.7	2083.2	1844.6	1618.8
45°	3946.0	3809.5	3656.5	3494.4	3301.4	3090.2	2851.6	2596.7	2329.0	2061.3	1800.9
42.5°	4193.7	4057.1	3902.3	3734.8	3543.6	3334.2	3102.9	2846.2	2576.7	2285.3	1999.4
40°	4410.4	4277.5	4128.1	3953.3	3774.9	3554.5	3326.9	3082.9	2804.3	2511.1	2196.1
37.5°	4599.8	4475.9	4328.4	4155.5	3966.1	3769.4	3534.5	3290.5	3039.2	2720.5	2398.2
35°	4767.3	4652.6	4501.4	4337.5	4151.8	3944.2	3723.9	3485.3	3214.0	2915.4	2602.2
32.5°	4913.0	4796.4	4658.0	4494.2	4313.9	4119.0	3893.2	3652.9	3396.1	3092.0	2751.5
30°	5036.8	4923.9	4792.8	4638.0	4465.0	4272.0	4051.7	3809.5	3547.2	3245.0	2908.1
27.5°	5144.2	5036.8	4909.3	4765.5	4599.8	4414.0	4191.9	3947.9	3680.2	3388.8	3051.9
25°	5237.1	5133.3	5015.0	4878.4	4714.5	4532.4	4323.0	4068.0	3800.4	3507.2	3174.0
22.5°	5320.9	5220.7	5102.4	4969.4	4820.1	4638.0	4426.8	4173.7	3902.3	3612.8	3285.0
20°	5395.5	5302.7	5186.1	5049.5	4900.2	4716.3	4506.9	4266.5	3993.4	3709.3	3385.2
17.5°	5455.6	5373.7	5257.1	5113.3	4964.0	4785.5	4581.6	4361.2	4071.7	3791.3	3468.9
15°	5497.5	5417.4	5311.8	5166.1	5020.4	4843.8	4639.8	4412.2	4142.7	3856.8	3538.1
12.5°	5526.6	5441.1	5342.7	5208.0	5062.3	4887.5	4689.0	4465.0	4202.8	3915.1	3598.2
10°	5533.9	5455.6	5357.3	5237.1	5095.1	4925.7	4730.9	4508.7	4252.0	3960.6	3647.4
7.5°	5537.6	5462.9	5373.7	5259.0	5118.7	4954.9	4761.8	4543.3	4288.4	3998.8	3683.8
5°	5535.7	5464.7	5384.6	5273.5	5133.3	4971.2	4781.9	4567.0	4313.9	4024.3	3711.1
2.5°	5530.3	5466.6	5391.9	5284.5	5149.7	4989.5	4801.9	4594.3	4341.2	4046.2	3733.0
0°	5544.9	5490.2	5395.5	5280.8	5153.3	4989.5	4800.1	4597.9	4344.8	4044.4	3731.2



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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°	45.5	43.7	43.7	41.9	40.1	38.2	34.6	32.8	29.1	23.7	18.2
85°	98.3	92.9	87.4	83.8	80.1	76.5	71.0	65.6	58.3	47.3	36.4
82.5°	173.0	162.1	151.1	138.4	127.5	116.5	107.4	98.3	87.4	71.0	54.6
80°	247.7	231.3	214.9	196.7	180.3	162.1	145.7	131.1	116.5	94.7	72.8
77.5°	322.3	300.5	276.8	254.9	231.3	207.6	183.9	163.9	142.0	116.5	91.0
75°	391.5	366.0	344.2	313.2	284.1	253.1	222.2	194.8	167.5	136.6	109.3
72.5°	460.7	427.9	397.0	367.8	335.1	296.8	262.2	227.6	193.0	156.6	123.8
70°	529.9	489.8	451.6	417.0	380.6	342.3	300.5	260.4	218.5	174.8	136.6
67.5°	600.9	555.4	511.7	468.0	426.1	382.4	338.7	293.2	244.0	193.0	151.1
65°	679.2	622.8	570.0	520.8	471.6	424.3	375.1	326.0	271.3	213.1	163.9
62.5°	757.5	695.6	633.7	571.8	517.2	464.3	411.5	356.9	296.8	234.9	176.6
60°	841.3	770.3	699.3	630.1	562.7	504.4	446.1	387.9	324.1	254.9	189.4
57.5°	934.2	848.6	768.4	690.1	613.7	544.5	480.7	418.8	347.8	275.0	203.9
55°	1039.8	934.2	839.5	752.1	668.3	584.5	515.3	451.6	375.1	295.0	220.3
52.5°	1150.9	1028.8	914.1	815.8	726.6	631.9	548.1	477.1	402.4	315.0	234.9
50°	1280.1	1125.4	997.9	877.7	777.6	679.2	582.7	506.2	429.7	338.7	249.5
47.5°	1413.1	1241.9	1081.7	950.5	832.2	724.7	622.8	531.7	455.2	360.6	264.0
45°	1567.9	1353.0	1176.3	1021.6	885.0	772.1	662.8	559.0	477.1	382.4	278.6
42.5°	1717.2	1484.1	1274.7	1099.9	945.1	817.6	699.3	588.2	498.9	404.3	291.4
40°	1893.8	1615.2	1369.4	1174.5	1005.2	861.3	735.7	619.1	519.0	424.3	304.1
37.5°	2063.2	1748.1	1484.1	1256.5	1063.4	905.0	772.1	648.3	537.2	444.3	320.5
35°	2230.7	1895.6	1593.3	1332.9	1123.5	954.2	808.5	675.6	555.4	460.7	335.1
32.5°	2390.9	2034.0	1704.4	1418.5	1189.1	999.7	841.3	701.1	573.6	475.3	349.6
30°	2540.3	2165.1	1813.7	1505.9	1249.2	1041.6	872.2	726.6	595.5	488.0	364.2
27.5°	2676.8	2292.6	1922.9	1587.9	1305.6	1079.8	905.0	750.2	613.7	500.8	376.9
25°	2800.7	2407.3	2023.1	1662.5	1356.6	1121.7	936.0	773.9	630.1	511.7	387.9
22.5°	2917.2	2512.9	2114.1	1737.2	1418.5	1163.6	965.1	795.8	646.4	522.6	398.8
20°	3019.2	2609.4	2201.6	1811.9	1473.2	1201.8	990.6	815.8	661.0	529.9	409.7
17.5°	3101.1	2695.0	2279.9	1877.4	1520.5	1234.6	1012.5	834.0	673.8	539.0	417.0
15°	3174.0	2767.9	2345.4	1933.9	1562.4	1261.9	1032.5	848.6	684.7	544.5	426.1
12.5°	3235.9	2829.8	2401.9	1983.0	1598.8	1285.6	1048.9	859.5	693.8	549.9	431.6
10°	3286.9	2879.0	2449.2	2021.3	1627.9	1303.8	1061.6	870.4	701.1	555.4	437.0
7.5°	3325.1	2915.4	2483.8	2054.1	1651.6	1316.6	1072.6	877.7	708.4	559.0	446.1
5°	3354.2	2946.3	2511.1	2075.9	1669.8	1334.8	1085.3	886.8	715.6	562.7	446.1
2.5°	3376.1	2971.8	2533.0	2094.1	1684.4	1331.1	1085.3	885.0	715.6	562.7	444.3
0°	3372.4	2973.6	2531.1	2094.1	1684.4	1327.5	1085.3	883.2	715.6	562.7	444.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.7	9.1	3.6	0.0
85°	27.3	18.2	9.1	0.0
82.5°	40.1	25.5	12.7	0.0
80°	52.8	34.6	16.4	0.0
77.5°	67.4	43.7	21.9	0.0
75°	80.1	51.0	25.5	0.0
72.5°	92.9	60.1	29.1	0.0
70°	103.8	67.4	32.8	0.0
67.5°	114.7	76.5	38.2	0.0
65°	123.8	83.8	41.9	0.0
62.5°	131.1	92.9	45.5	0.0
60°	140.2	100.2	49.2	0.0
57.5°	147.5	105.6	52.8	0.0
55°	154.8	109.3	56.5	0.0
52.5°	162.1	114.7	60.1	0.0
50°	169.4	120.2	63.7	0.0
47.5°	176.6	123.8	65.6	0.0
45°	187.6	129.3	69.2	0.0
42.5°	196.7	132.9	72.8	0.0
40°	205.8	136.6	74.7	0.0
37.5°	214.9	140.2	78.3	0.0
35°	224.0	143.9	80.1	0.0
32.5°	231.3	147.5	81.9	0.0
30°	238.5	151.1	83.8	0.0
27.5°	245.8	153.0	85.6	0.0
25°	251.3	156.6	87.4	0.0
22.5°	256.8	158.4	89.2	0.0
20°	260.4	160.2	91.0	0.0
17.5°	265.9	162.1	92.9	0.0
15°	267.7	163.9	96.5	0.0
12.5°	271.3	165.7	96.5	0.0
10°	273.1	167.5	96.5	0.0
7.5°	276.8	167.5	96.5	0.0
5°	275.0	167.5	96.5	0.0
2.5°	275.0	167.5	96.5	0.0
0°	273.1	167.5	96.5	0.0

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