

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: P628166

Luminaire Tested: **IFLD-M-SA4B-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628166
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

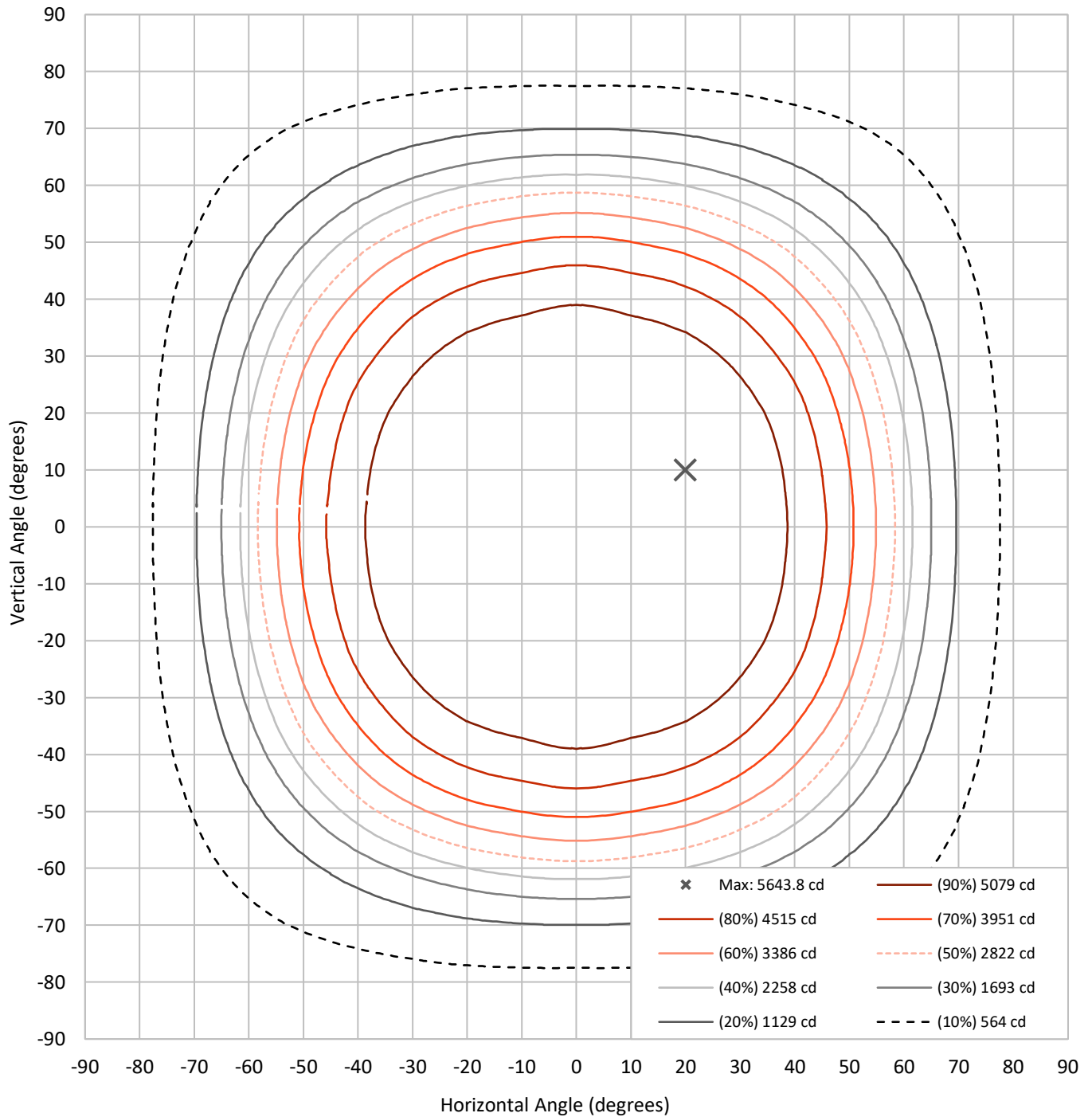
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17314.3 lumens	Max Intensity:	5643.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	104.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10624.4 lumens	Field Lumens:	12736.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 166.1
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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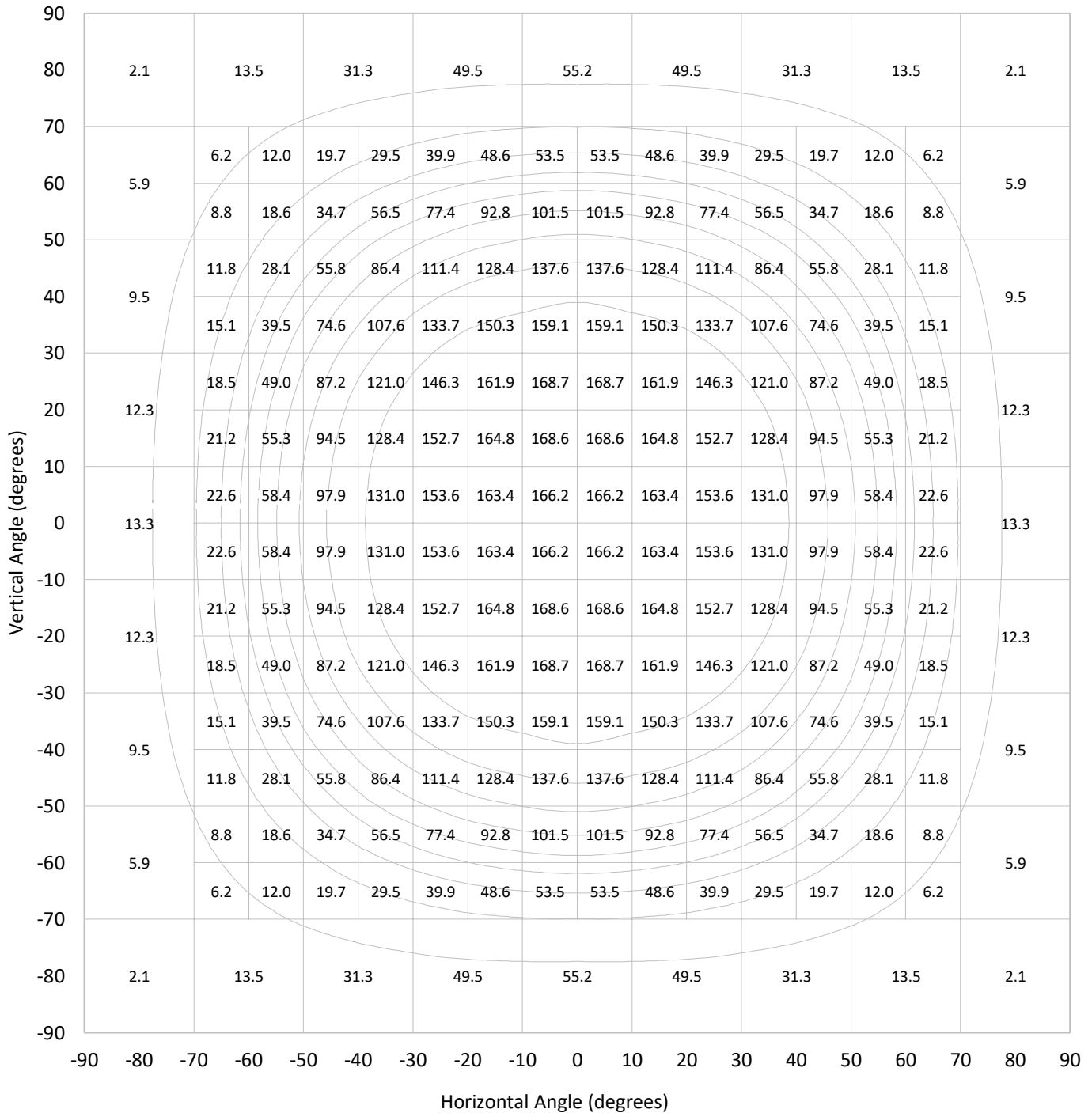
Iso-Candela Plot





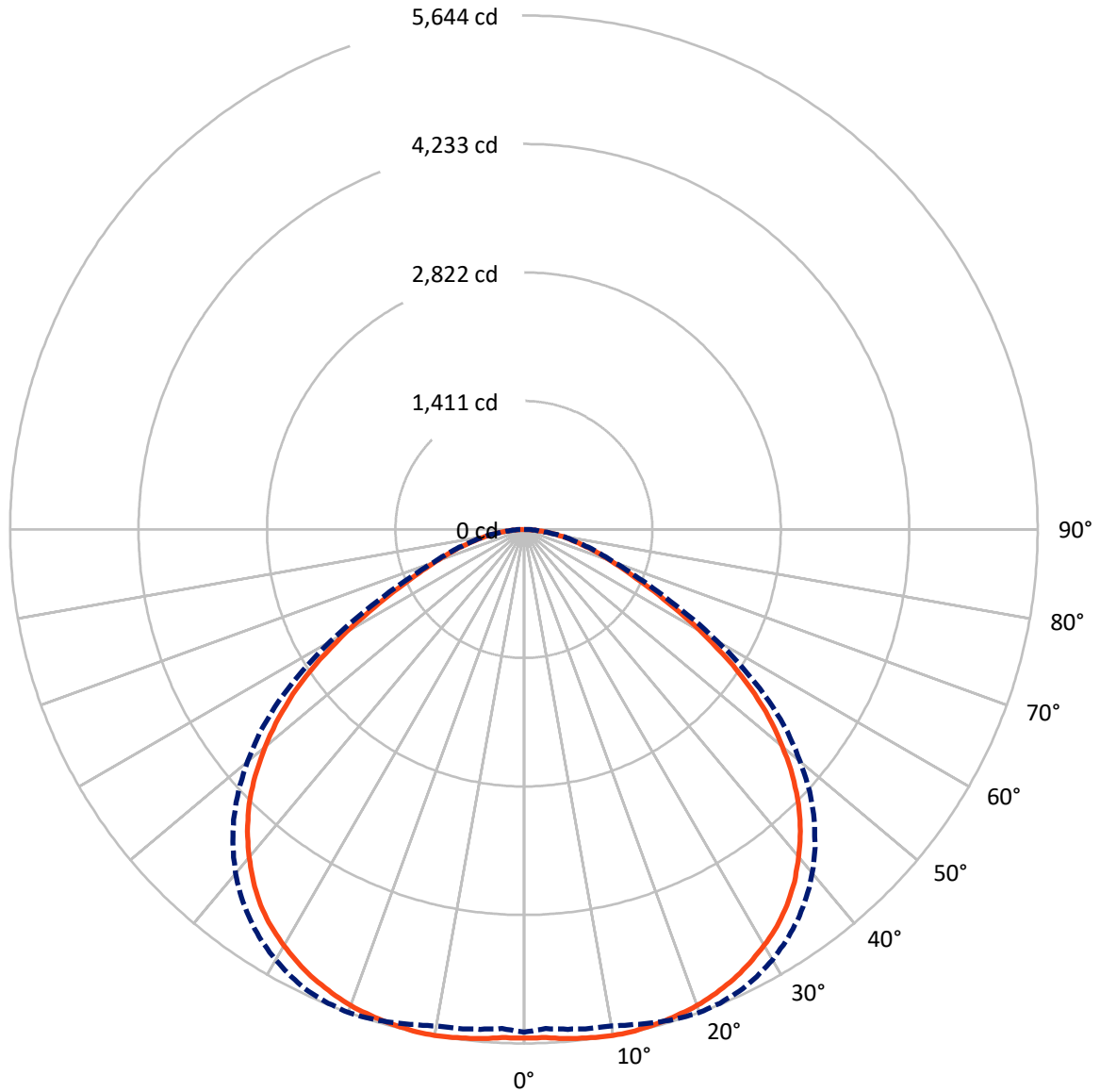
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Lumen Table



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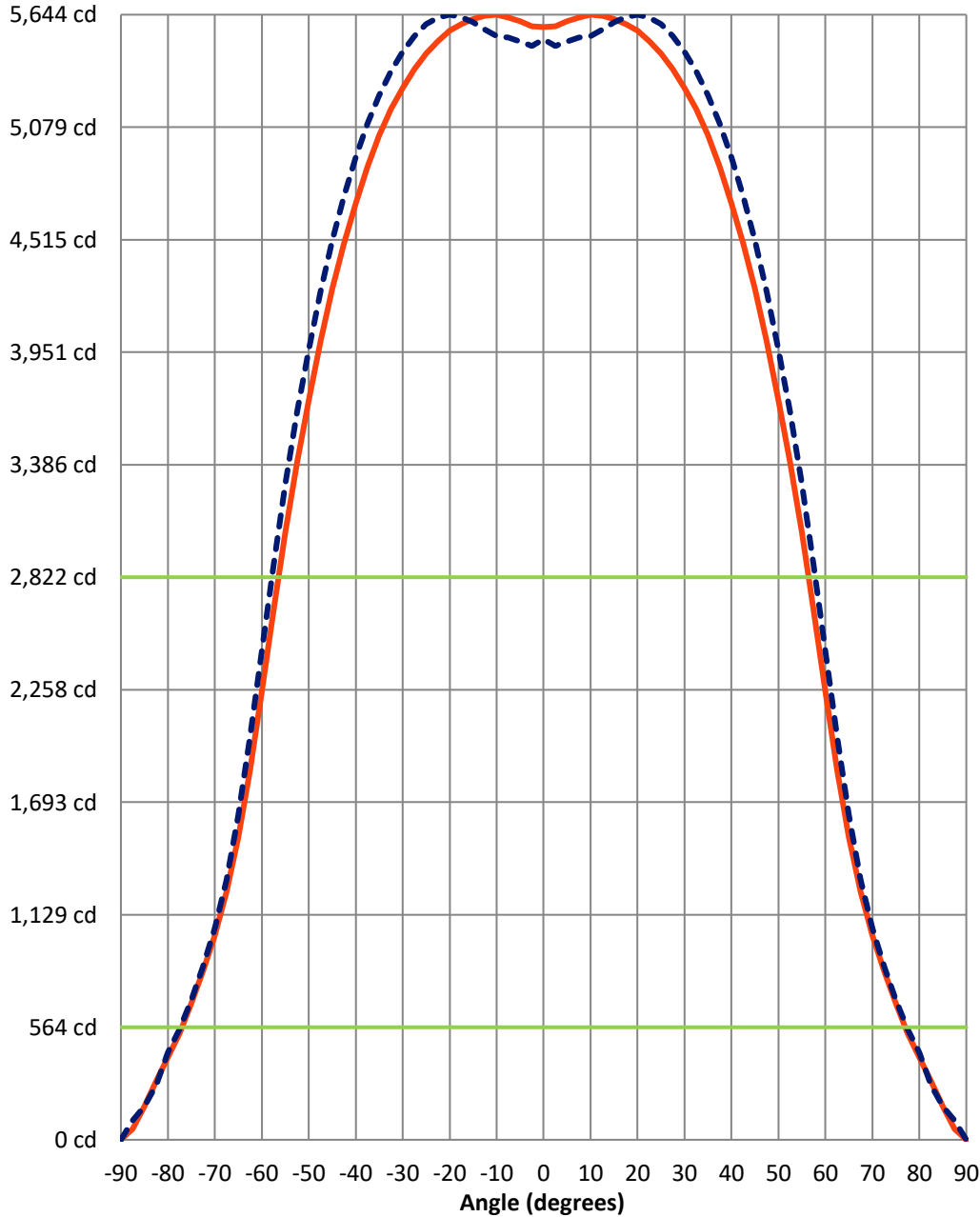
Luminous Intensity Polar Plot



— 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: 10624.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12736.9
 Efficiency: 73.6%

Spill:
 Lumens: 4577.4
 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°	45.5	49.2	51.0	52.8	54.7	56.5	58.3	56.5	54.7	54.7	52.8
85°	122.1	125.7	127.5	140.3	153.0	160.3	169.4	167.6	167.6	165.8	164.0
82.5°	244.1	255.0	264.2	276.9	284.2	295.1	302.4	296.9	293.3	286.0	280.5
80°	433.6	437.2	439.0	440.9	431.8	429.9	426.3	420.8	413.5	404.4	395.3
77.5°	552.0	555.6	559.3	555.6	553.8	552.0	546.5	541.1	533.8	526.5	515.6
75°	730.5	730.5	730.5	725.1	721.4	715.9	706.8	697.7	685.0	670.4	654.0
72.5°	920.0	918.2	916.3	905.4	896.3	885.4	872.6	861.7	847.1	830.7	808.9
70°	1118.6	1122.2	1124.0	1109.4	1098.5	1083.9	1067.5	1047.5	1025.6	1002.0	971.0
67.5°	1391.8	1388.2	1384.5	1364.5	1349.9	1329.9	1306.2	1277.0	1244.3	1207.8	1164.1
65°	1730.7	1736.1	1725.2	1705.2	1677.8	1645.0	1608.6	1566.7	1517.5	1462.9	1400.9
62.5°	2140.5	2149.7	2136.9	2111.4	2076.8	2033.1	1982.1	1921.9	1854.5	1778.0	1701.5
60°	2606.9	2605.1	2581.4	2546.8	2501.3	2446.6	2390.1	2324.5	2248.0	2158.8	2065.9
57.5°	3035.0	3031.4	3002.2	2967.6	2922.1	2863.8	2803.7	2734.4	2654.3	2559.6	2452.1
55°	3419.4	3415.8	3386.6	3350.2	3302.8	3244.5	3189.9	3124.3	3046.0	2945.8	2831.0
52.5°	3760.1	3761.9	3736.4	3696.3	3645.3	3588.8	3536.0	3470.4	3395.7	3295.5	3184.4
50°	4073.4	4071.6	4044.3	4007.8	3960.5	3905.8	3853.0	3787.4	3709.1	3612.5	3505.0
47.5°	4364.9	4361.3	4330.3	4290.2	4241.0	4193.7	4144.5	4086.2	4004.2	3907.6	3800.2
45°	4609.0	4601.7	4570.8	4532.5	4485.1	4443.2	4399.5	4355.8	4268.3	4179.1	4077.1
42.5°	4818.5	4816.7	4785.7	4747.5	4700.1	4663.7	4623.6	4568.9	4496.1	4414.1	4313.9
40°	5018.9	5004.3	4973.4	4936.9	4893.2	4862.2	4822.2	4767.5	4696.5	4616.3	4519.7
37.5°	5168.3	5170.1	5137.3	5097.2	5059.0	5029.8	4993.4	4942.4	4880.5	4802.1	4705.6
35°	5310.4	5301.3	5273.9	5239.3	5204.7	5171.9	5133.7	5090.0	5038.9	4966.1	4875.0
32.5°	5403.3	5416.0	5383.3	5346.8	5326.8	5301.3	5261.2	5215.7	5170.1	5097.2	5015.3
30°	5505.3	5494.4	5468.9	5437.9	5423.3	5406.9	5372.3	5328.6	5275.8	5210.2	5133.7
27.5°	5576.4	5570.9	5539.9	5510.8	5503.5	5488.9	5461.6	5423.3	5370.5	5306.7	5235.7
25°	5607.3	5611.0	5581.8	5565.4	5565.4	5556.3	5534.5	5501.7	5448.8	5390.5	5321.3
22.5°	5621.9	5618.3	5598.2	5594.6	5603.7	5596.4	5587.3	5558.1	5510.8	5463.4	5405.1
20°	5631.0	5605.5	5587.3	5601.9	5612.8	5611.0	5603.7	5585.5	5563.6	5523.5	5472.5
17.5°	5611.0	5594.6	5572.7	5594.6	5618.3	5620.1	5612.8	5601.9	5596.4	5570.9	5525.3
15°	5561.8	5549.0	5552.7	5574.5	5601.9	5611.0	5616.4	5629.2	5621.9	5601.9	5561.8
12.5°	5529.0	5512.6	5529.0	5550.9	5565.4	5570.9	5614.6	5638.3	5638.3	5620.1	5594.6
10°	5519.9	5487.1	5509.0	5529.0	5536.3	5569.1	5605.5	5631.0	5643.8	5629.2	5596.4
7.5°	5501.7	5479.8	5488.9	5498.0	5539.9	5563.6	5583.6	5611.0	5629.2	5627.4	5598.2
5°	5492.6	5465.2	5468.9	5507.1	5536.3	5552.7	5560.0	5583.6	5611.0	5616.4	5594.6
2.5°	5468.9	5456.1	5483.4	5487.1	5509.0	5521.7	5529.0	5550.9	5585.5	5598.2	5589.1
0°	5456.1	5437.9	5419.7	5434.3	5470.7	5498.0	5509.0	5541.7	5581.8	5594.6	5574.5



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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°	51.0	49.2	47.4	45.5	47.4	47.4	47.4	45.5	47.4	45.5	45.5
85°	158.5	151.2	145.7	138.5	131.2	125.7	118.4	111.1	109.3	107.5	103.8
82.5°	273.3	264.2	255.0	244.1	233.2	220.4	207.7	193.1	189.5	185.8	180.4
80°	384.4	371.6	358.9	346.1	335.2	322.4	307.9	291.5	280.5	271.4	260.5
77.5°	501.0	482.8	464.5	442.7	429.9	417.2	402.6	386.2	369.8	355.2	338.8
75°	634.0	613.9	595.7	573.8	550.2	526.5	502.8	480.9	457.3	435.4	413.5
72.5°	781.5	752.4	723.2	695.9	666.8	637.6	606.6	577.5	548.3	519.2	488.2
70°	936.4	899.9	863.5	827.1	788.8	750.6	714.1	677.7	641.3	603.0	568.4
67.5°	1118.6	1076.7	1029.3	978.3	921.8	872.6	825.3	781.5	737.8	694.1	650.4
65°	1346.3	1288.0	1224.2	1155.0	1089.4	1023.8	954.6	889.0	838.0	787.0	737.8
62.5°	1626.8	1544.8	1455.6	1366.3	1286.2	1200.5	1120.4	1034.8	954.6	881.7	821.6
60°	1962.0	1850.9	1741.6	1626.8	1515.7	1399.1	1297.1	1191.4	1091.2	1002.0	914.5
57.5°	2331.8	2202.5	2071.3	1931.0	1779.8	1643.2	1504.8	1366.3	1247.9	1129.5	1031.1
55°	2707.1	2570.5	2422.9	2264.4	2098.6	1923.8	1736.1	1581.3	1419.1	1280.7	1153.2
52.5°	3064.2	2922.1	2769.1	2623.3	2424.7	2224.3	2018.5	1814.5	1625.0	1448.3	1293.4
50°	3383.0	3244.5	3097.0	2927.5	2743.5	2530.4	2300.9	2071.3	1847.2	1639.6	1446.5
47.5°	3674.5	3539.6	3392.1	3222.7	3055.1	2818.2	2586.9	2333.7	2084.1	1845.4	1619.5
45°	3947.7	3811.1	3658.1	3495.9	3302.8	3091.5	2852.9	2597.8	2330.0	2062.2	1801.7
42.5°	4195.5	4058.8	3904.0	3736.4	3545.1	3335.6	3104.3	2847.4	2577.8	2286.3	2000.3
40°	4412.3	4279.3	4129.9	3955.0	3776.5	3556.0	3328.3	3084.2	2805.5	2512.2	2197.0
37.5°	4601.7	4477.8	4330.3	4157.2	3967.8	3771.0	3536.0	3291.9	3040.5	2721.7	2399.2
35°	4769.3	4654.6	4503.4	4339.4	4153.6	3945.9	3725.5	3486.8	3215.4	2916.6	2603.3
32.5°	4915.1	4798.5	4660.0	4496.1	4315.7	4120.8	3894.9	3654.4	3397.6	3093.3	2752.7
30°	5038.9	4926.0	4794.8	4640.0	4466.9	4273.8	4053.4	3811.1	3548.8	3246.3	2909.3
27.5°	5146.4	5038.9	4911.4	4767.5	4601.7	4415.9	4193.7	3949.5	3681.7	3390.3	3053.2
25°	5239.3	5135.5	5017.1	4880.5	4716.5	4534.3	4324.8	4069.8	3802.0	3508.7	3175.3
22.5°	5323.1	5222.9	5104.5	4971.5	4822.2	4640.0	4428.7	4175.4	3904.0	3614.3	3286.4
20°	5397.8	5304.9	5188.3	5051.7	4902.3	4718.3	4508.8	4268.3	3995.1	3710.9	3386.6
17.5°	5457.9	5376.0	5259.4	5115.5	4966.1	4787.5	4583.5	4363.1	4073.4	3792.9	3470.4
15°	5499.8	5419.7	5314.0	5168.3	5022.5	4845.8	4641.8	4414.1	4144.5	3858.5	3539.6
12.5°	5529.0	5443.4	5345.0	5210.2	5064.4	4889.6	4691.0	4466.9	4204.6	3916.7	3599.8
10°	5536.3	5457.9	5359.6	5239.3	5097.2	4927.8	4732.9	4510.6	4253.8	3962.3	3649.0
7.5°	5539.9	5465.2	5376.0	5261.2	5120.9	4957.0	4763.9	4545.3	4290.2	4000.5	3685.4
5°	5538.1	5467.1	5386.9	5275.8	5135.5	4973.4	4783.9	4568.9	4315.7	4026.1	3712.7
2.5°	5532.6	5468.9	5394.2	5286.7	5151.9	4991.6	4803.9	4596.3	4343.0	4047.9	3734.6
0°	5547.2	5492.6	5397.8	5283.1	5155.5	4991.6	4802.1	4599.9	4346.7	4046.1	3732.8



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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	38.3	34.6	32.8	29.1	23.7	18.2
85°	98.4	92.9	87.4	83.8	80.2	76.5	71.0	65.6	58.3	47.4	36.4
82.5°	173.1	162.1	151.2	138.5	127.5	116.6	107.5	98.4	87.4	71.0	54.7
80°	247.8	231.4	215.0	196.7	180.4	162.1	145.7	131.2	116.6	94.7	72.9
77.5°	322.4	300.6	276.9	255.0	231.4	207.7	184.0	164.0	142.1	116.6	91.1
75°	391.7	366.2	344.3	313.3	284.2	253.2	222.3	194.9	167.6	136.6	109.3
72.5°	460.9	428.1	397.1	368.0	335.2	296.9	262.3	227.7	193.1	156.7	123.9
70°	530.1	490.0	451.8	417.2	380.7	342.5	300.6	260.5	218.6	174.9	136.6
67.5°	601.2	555.6	511.9	468.2	426.3	382.6	338.8	293.3	244.1	193.1	151.2
65°	679.5	623.0	570.2	521.0	471.8	424.5	375.3	326.1	271.4	213.1	164.0
62.5°	757.8	695.9	634.0	572.0	517.4	464.5	411.7	357.1	296.9	235.0	176.7
60°	841.6	770.6	699.5	630.3	562.9	504.6	446.3	388.0	324.3	255.0	189.5
57.5°	934.6	848.9	768.8	690.4	613.9	544.7	480.9	419.0	348.0	275.1	204.0
55°	1040.2	934.6	839.8	752.4	668.6	584.8	515.6	451.8	375.3	295.1	220.4
52.5°	1151.3	1029.3	914.5	816.1	726.9	632.1	548.3	477.3	402.6	315.2	235.0
50°	1280.7	1125.8	998.3	878.1	777.9	679.5	583.0	506.4	429.9	338.8	249.6
47.5°	1413.7	1242.4	1082.1	951.0	832.5	725.1	623.0	531.9	455.4	360.7	264.2
45°	1568.5	1353.6	1176.8	1022.0	885.4	772.4	663.1	559.3	477.3	382.6	278.7
42.5°	1717.9	1484.7	1275.2	1100.3	945.5	818.0	699.5	588.4	499.2	404.4	291.5
40°	1894.6	1615.9	1370.0	1175.0	1005.6	861.7	736.0	619.4	519.2	424.5	304.2
37.5°	2064.0	1748.9	1484.7	1257.0	1063.9	905.4	772.4	648.5	537.4	444.5	320.6
35°	2231.6	1896.4	1594.0	1333.5	1124.0	954.6	808.9	675.9	555.6	460.9	335.2
32.5°	2391.9	2034.9	1705.2	1419.1	1189.6	1000.1	841.6	701.4	573.8	475.5	349.8
30°	2541.3	2166.1	1814.5	1506.6	1249.7	1042.0	872.6	726.9	595.7	488.2	364.3
27.5°	2678.0	2293.6	1923.8	1588.6	1306.2	1080.3	905.4	750.6	613.9	501.0	377.1
25°	2801.8	2408.3	2024.0	1663.3	1357.2	1122.2	936.4	774.2	630.3	511.9	388.0
22.5°	2918.4	2514.0	2115.0	1737.9	1419.1	1164.1	965.5	796.1	646.7	522.8	399.0
20°	3020.5	2610.6	2202.5	1812.6	1473.8	1202.4	991.0	816.1	661.3	530.1	409.9
17.5°	3102.4	2696.2	2280.8	1878.2	1521.2	1235.1	1012.9	834.4	674.0	539.2	417.2
15°	3175.3	2769.1	2346.4	1934.7	1563.1	1262.5	1032.9	848.9	685.0	544.7	426.3
12.5°	3237.2	2831.0	2402.9	1983.9	1599.5	1286.2	1049.3	859.9	694.1	550.2	431.8
10°	3288.2	2880.2	2450.2	2022.1	1628.6	1304.4	1062.1	870.8	701.4	555.6	437.2
7.5°	3326.5	2916.6	2484.9	2054.9	1652.3	1317.1	1073.0	878.1	708.7	559.3	446.3
5°	3355.7	2947.6	2512.2	2076.8	1670.5	1335.3	1085.8	887.2	715.9	562.9	446.3
2.5°	3377.5	2973.1	2534.0	2095.0	1685.1	1331.7	1085.8	885.4	715.9	562.9	444.5
0°	3373.9	2974.9	2532.2	2095.0	1685.1	1328.1	1085.8	883.5	715.9	562.9	444.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.8	9.1	3.6	0.0
85°	27.3	18.2	9.1	0.0
82.5°	40.1	25.5	12.8	0.0
80°	52.8	34.6	16.4	0.0
77.5°	67.4	43.7	21.9	0.0
75°	80.2	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°	114.8	76.5	38.3	0.0
65°	123.9	83.8	41.9	0.0
62.5°	131.2	92.9	45.5	0.0
60°	140.3	100.2	49.2	0.0
57.5°	147.6	105.7	52.8	0.0
55°	154.8	109.3	56.5	0.0
52.5°	162.1	114.8	60.1	0.0
50°	169.4	120.2	63.8	0.0
47.5°	176.7	123.9	65.6	0.0
45°	187.6	129.3	69.2	0.0
42.5°	196.7	133.0	72.9	0.0
40°	205.9	136.6	74.7	0.0
37.5°	215.0	140.3	78.3	0.0
35°	224.1	143.9	80.2	0.0
32.5°	231.4	147.6	82.0	0.0
30°	238.6	151.2	83.8	0.0
27.5°	245.9	153.0	85.6	0.0
25°	251.4	156.7	87.4	0.0
22.5°	256.9	158.5	89.3	0.0
20°	260.5	160.3	91.1	0.0
17.5°	266.0	162.1	92.9	0.0
15°	267.8	164.0	96.6	0.0
12.5°	271.4	165.8	96.6	0.0
10°	273.3	167.6	96.6	0.0
7.5°	276.9	167.6	96.6	0.0
5°	275.1	167.6	96.6	0.0
2.5°	275.1	167.6	96.6	0.0
0°	273.3	167.6	96.6	0.0

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