

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: P628230

Luminaire Tested: **IFLD-L-SA7C-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628230
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41545.3 lumens	Max Intensity:	13542.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	112.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

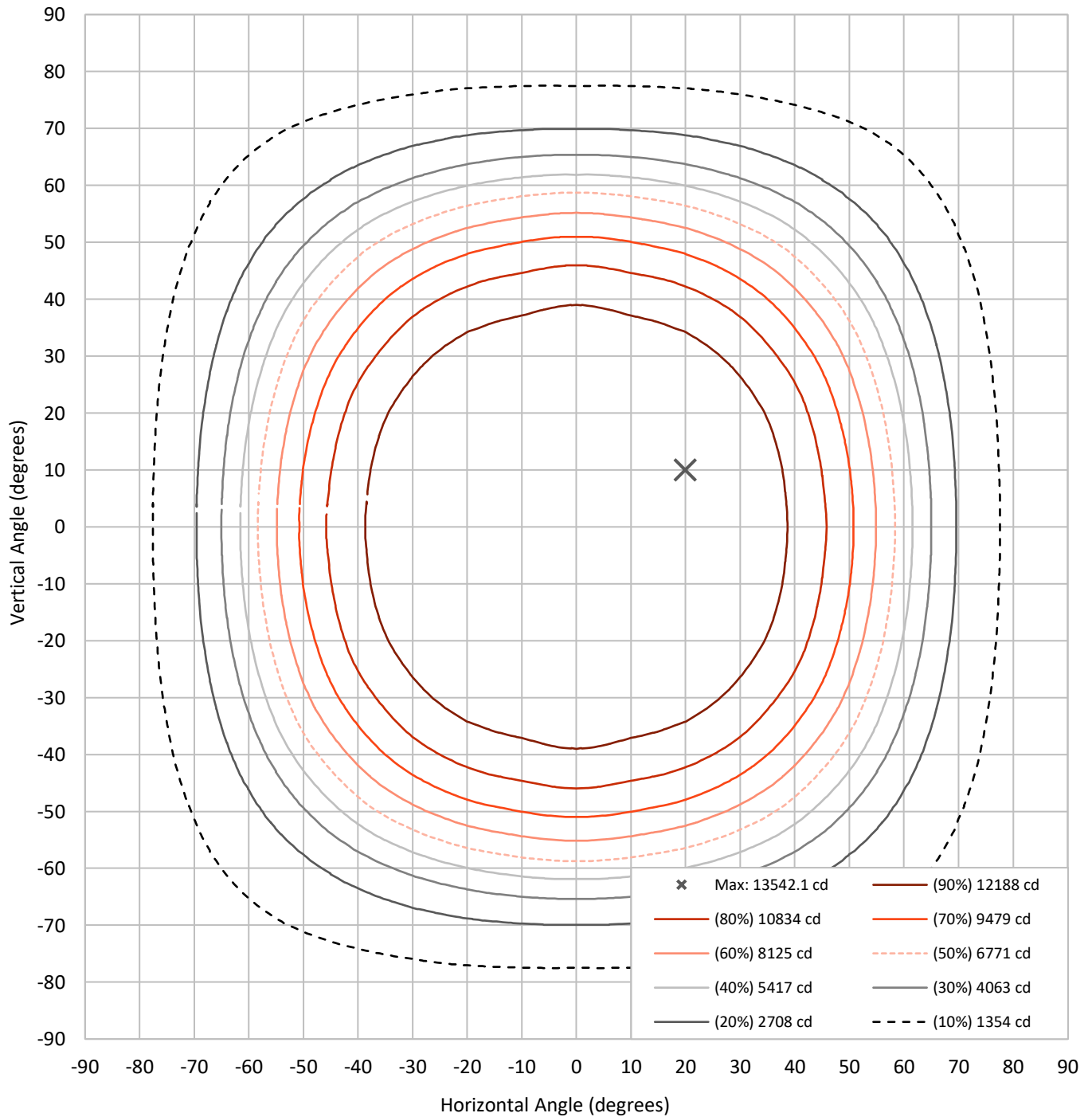
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	25493 lumens	Field Lumens:	30561.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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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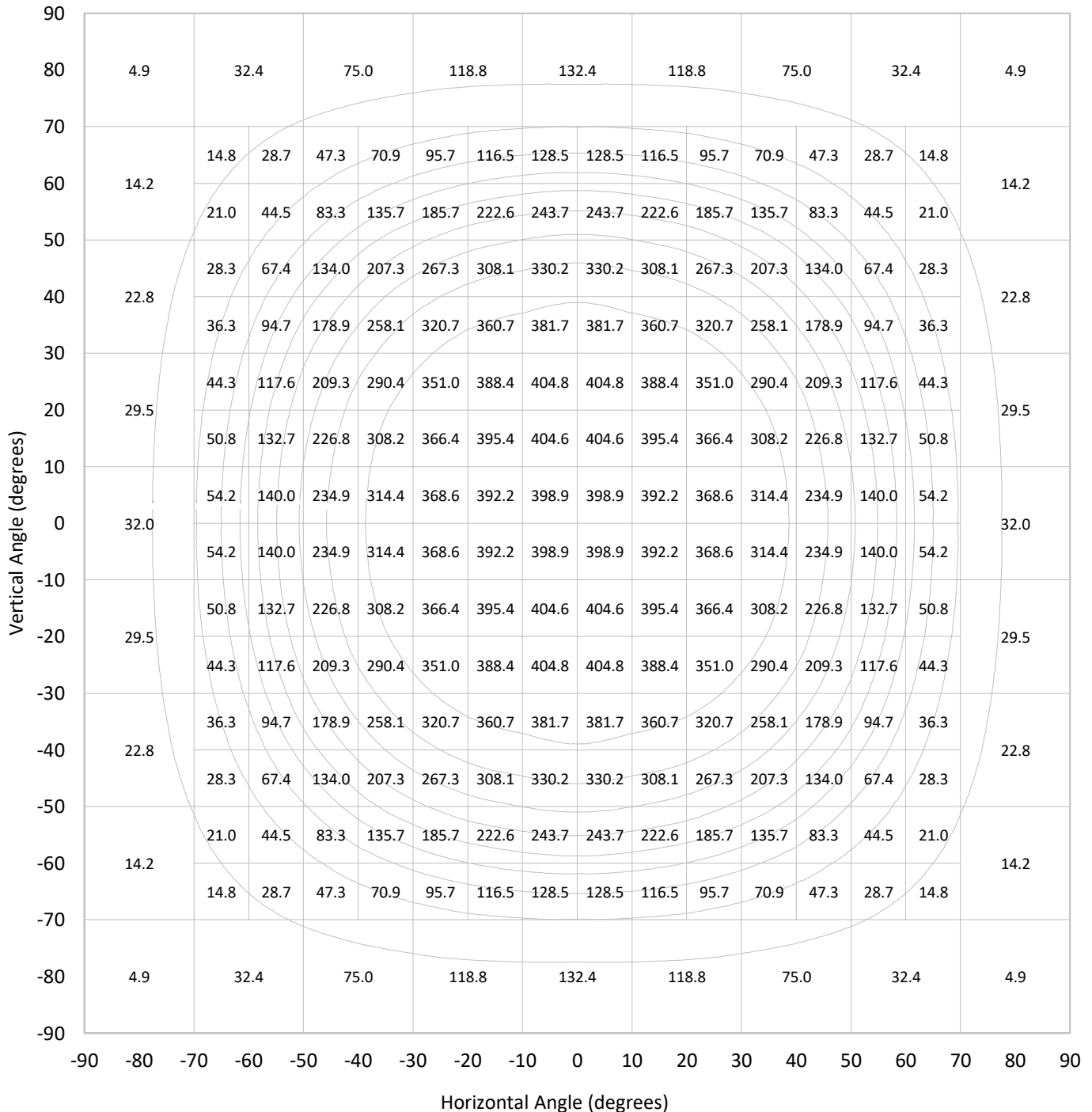
Iso-Candela Plot





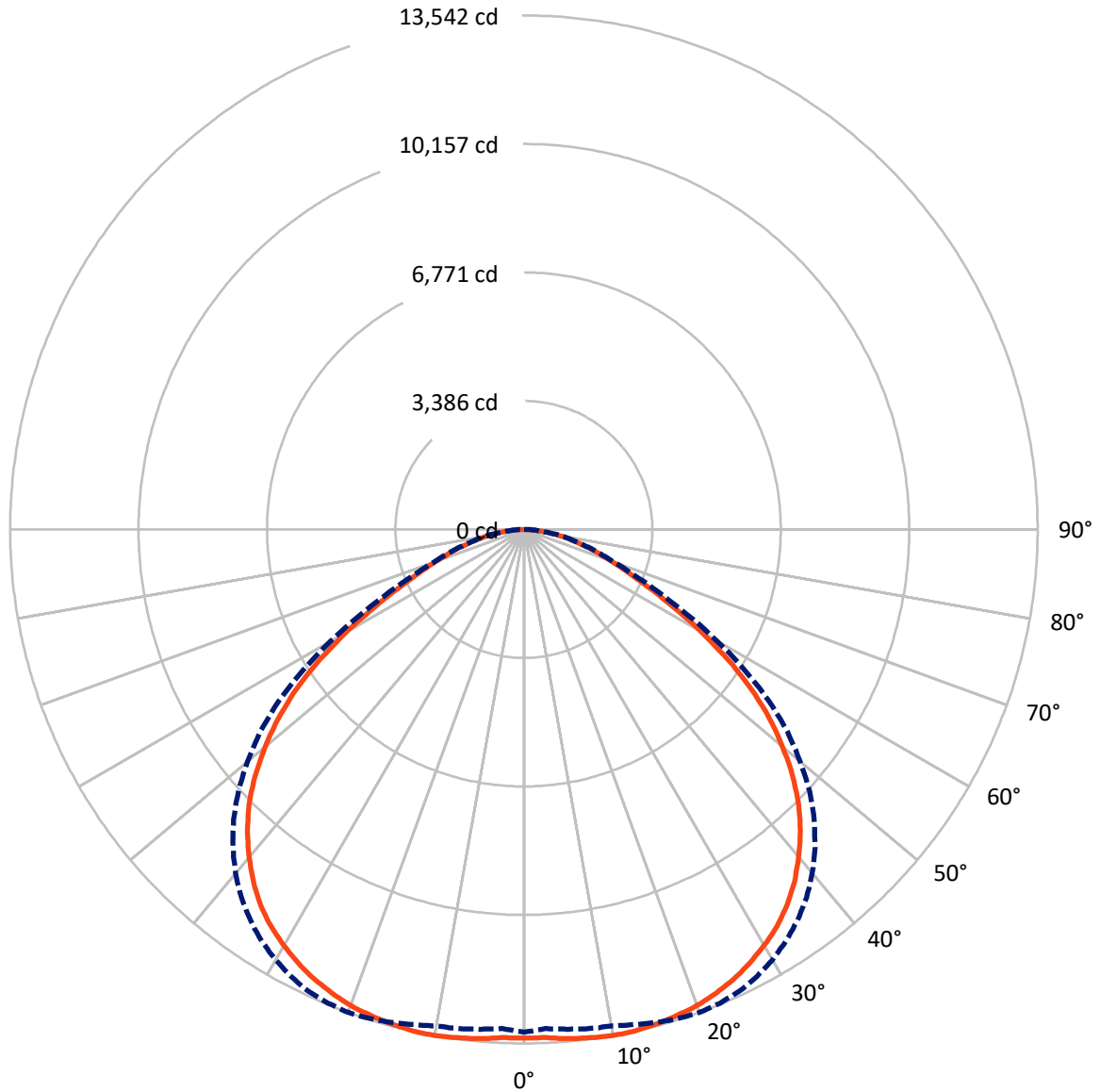
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Lumen Table



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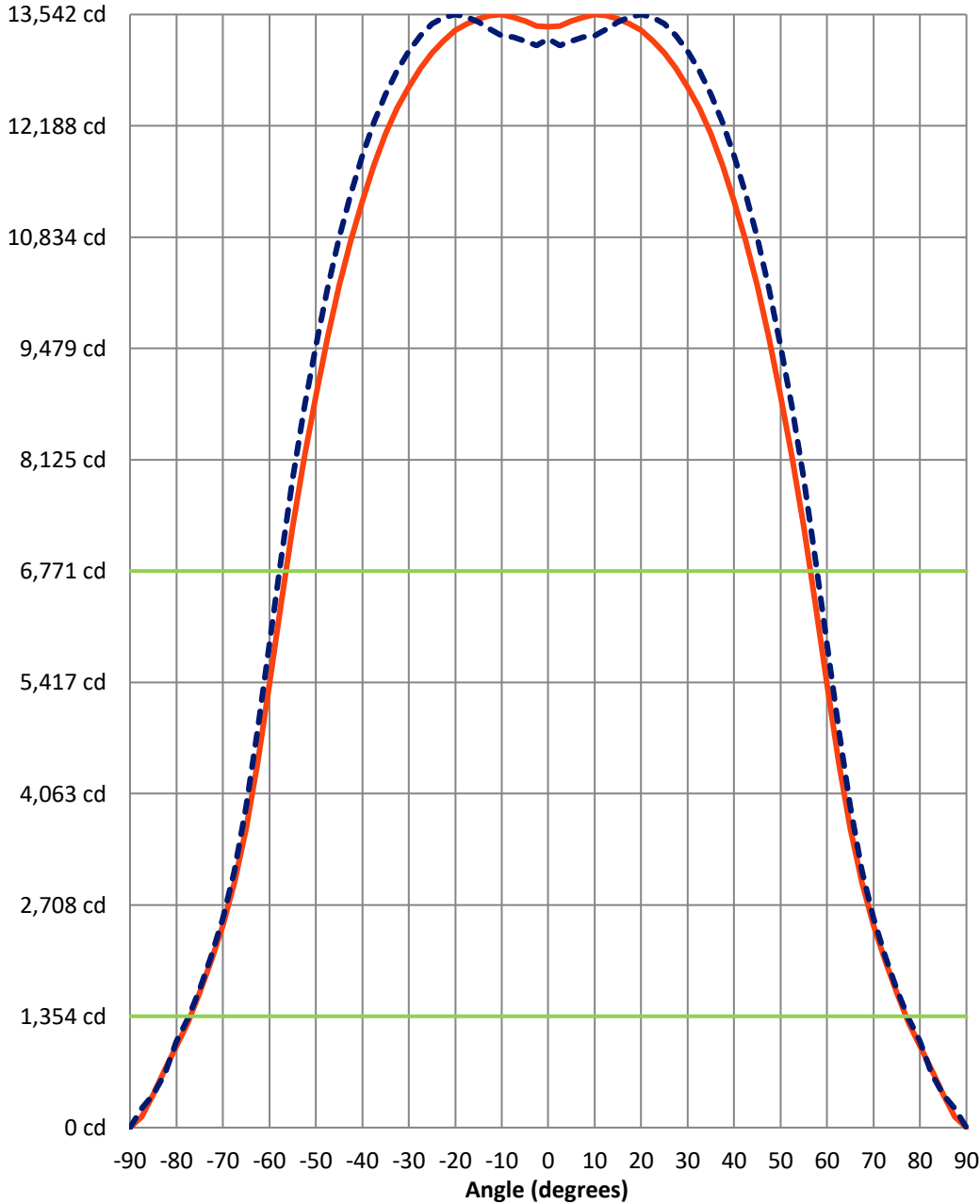
Luminous Intensity Polar Plot



— 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: 25493
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 30561.8
 Efficiency: 73.6%

Spill:
 Lumens: 10983.5
 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°	109.3	118.0	122.4	126.8	131.1	135.5	139.9	135.5	131.1	131.1	126.8
85°	292.9	301.6	306.0	336.6	367.2	384.7	406.5	402.2	402.2	397.8	393.4
82.5°	585.7	612.0	633.8	664.4	681.9	708.1	725.6	712.5	703.8	686.3	673.2
80°	1040.4	1049.1	1053.5	1057.8	1036.0	1031.6	1022.9	1009.8	992.3	970.4	948.6
77.5°	1324.5	1333.2	1342.0	1333.2	1328.9	1324.5	1311.4	1298.3	1280.8	1263.3	1237.1
75°	1752.9	1752.9	1752.9	1739.8	1731.0	1717.9	1696.0	1674.2	1643.6	1608.6	1569.3
72.5°	2207.5	2203.1	2198.7	2172.5	2150.6	2124.4	2093.8	2067.6	2032.6	1993.3	1940.8
70°	2683.9	2692.7	2697.1	2662.1	2635.9	2600.9	2561.5	2513.5	2461.0	2404.2	2329.9
67.5°	3339.6	3330.9	3322.1	3274.1	3239.1	3191.0	3134.2	3064.2	2985.6	2898.1	2793.2
65°	4152.7	4165.8	4139.6	4091.5	4025.9	3947.2	3859.8	3759.3	3641.2	3510.1	3361.5
62.5°	5136.2	5158.1	5127.5	5066.3	4983.2	4878.3	4755.9	4611.6	4449.9	4266.3	4082.7
60°	6255.2	6250.9	6194.0	6111.0	6001.7	5870.6	5735.1	5577.7	5394.1	5179.9	4957.0
57.5°	7282.5	7273.7	7203.8	7120.7	7011.5	6871.6	6727.3	6561.2	6368.9	6141.6	5883.7
55°	8204.8	8196.1	8126.1	8038.7	7925.0	7785.2	7654.0	7496.7	7308.7	7068.3	6792.9
52.5°	9022.2	9026.6	8965.4	8869.2	8746.8	8611.3	8484.6	8327.2	8148.0	7907.6	7640.9
50°	9774.1	9769.7	9704.1	9616.7	9503.1	9371.9	9245.2	9087.8	8899.8	8668.2	8410.3
47.5°	10473.5	10464.7	10390.4	10294.3	10176.2	10062.6	9944.6	9804.7	9608.0	9376.3	9118.4
45°	11059.2	11041.7	10967.4	10875.6	10762.0	10661.4	10556.5	10451.6	10241.8	10027.6	9782.8
42.5°	11561.9	11557.5	11483.2	11391.4	11277.8	11190.4	11094.2	10963.0	10788.2	10591.5	10351.1
40°	12042.7	12007.8	11933.5	11846.0	11741.1	11666.8	11570.7	11439.5	11269.0	11076.7	10845.0
37.5°	12401.2	12405.6	12326.9	12230.7	12138.9	12069.0	11981.5	11859.2	11710.5	11522.6	11290.9
35°	12742.1	12720.3	12654.7	12571.7	12488.6	12409.9	12318.1	12213.2	12090.8	11916.0	11697.4
32.5°	12965.1	12995.7	12917.0	12829.6	12781.5	12720.3	12624.1	12514.8	12405.6	12230.7	12034.0
30°	13209.9	13183.6	13122.4	13048.1	13013.2	12973.8	12890.8	12785.9	12659.1	12501.7	12318.1
27.5°	13380.3	13367.2	13292.9	13223.0	13205.5	13170.5	13105.0	13013.2	12886.4	12733.4	12562.9
25°	13454.7	13463.4	13393.5	13354.1	13354.1	13332.3	13279.8	13201.1	13074.4	12934.5	12768.4
22.5°	13489.6	13480.9	13432.8	13424.1	13445.9	13428.4	13406.6	13336.6	13223.0	13109.3	12969.4
20°	13511.5	13450.3	13406.6	13441.5	13467.8	13463.4	13445.9	13402.2	13349.7	13253.6	13131.2
17.5°	13463.4	13424.1	13371.6	13424.1	13480.9	13485.3	13467.8	13441.5	13428.4	13367.2	13257.9
15°	13345.4	13314.8	13323.5	13376.0	13441.5	13463.4	13476.5	13507.1	13489.6	13441.5	13345.4
12.5°	13266.7	13227.3	13266.7	13319.1	13354.1	13367.2	13472.1	13529.0	13529.0	13485.3	13424.1
10°	13244.8	13166.2	13218.6	13266.7	13284.2	13362.9	13450.3	13511.5	13542.1	13507.1	13428.4
7.5°	13201.1	13148.7	13170.5	13192.4	13292.9	13349.7	13397.8	13463.4	13507.1	13502.7	13432.8
5°	13179.3	13113.7	13122.4	13214.2	13284.2	13323.5	13341.0	13397.8	13463.4	13476.5	13424.1
2.5°	13122.4	13091.8	13157.4	13166.2	13218.6	13249.2	13266.7	13319.1	13402.2	13432.8	13410.9
0°	13091.8	13048.1	13004.4	13039.4	13126.8	13192.4	13218.6	13297.3	13393.5	13424.1	13376.0



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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°	122.4	118.0	113.7	109.3	113.7	113.7	113.7	109.3	113.7	109.3	109.3
85°	380.3	362.8	349.7	332.2	314.7	301.6	284.1	266.6	262.3	257.9	249.2
82.5°	655.7	633.8	612.0	585.7	559.5	528.9	498.3	463.4	454.6	445.9	432.8
80°	922.3	891.7	861.1	830.5	804.3	773.7	738.7	699.4	673.2	651.3	625.1
77.5°	1202.1	1158.4	1114.7	1062.2	1031.6	1001.0	966.0	926.7	887.4	852.4	813.0
75°	1521.2	1473.1	1429.4	1376.9	1320.1	1263.3	1206.5	1154.0	1097.2	1044.7	992.3
72.5°	1875.3	1805.3	1735.4	1669.8	1599.9	1529.9	1455.6	1385.7	1315.7	1245.8	1171.5
70°	2246.8	2159.4	2072.0	1984.5	1892.7	1800.9	1713.5	1626.1	1538.7	1446.9	1363.8
67.5°	2683.9	2583.4	2469.7	2347.4	2211.8	2093.8	1980.2	1875.3	1770.3	1665.4	1560.5
65°	3230.3	3090.5	2937.5	2771.4	2614.0	2456.6	2290.5	2133.2	2010.8	1888.4	1770.3
62.5°	3903.5	3706.8	3492.6	3278.4	3086.1	2880.6	2688.3	2482.9	2290.5	2115.7	1971.4
60°	4707.8	4441.2	4178.9	3903.5	3636.9	3357.1	3112.3	2858.8	2618.4	2404.2	2194.4
57.5°	5595.2	5284.8	4970.1	4633.5	4270.7	3942.9	3610.6	3278.4	2994.3	2710.2	2474.1
55°	6495.7	6167.8	5813.7	5433.4	5035.7	4616.0	4165.8	3794.2	3405.2	3073.0	2767.0
52.5°	7352.4	7011.5	6644.3	6294.6	5818.1	5337.3	4843.3	4353.7	3899.1	3475.1	3103.6
50°	8117.4	7785.2	7431.1	7024.6	6583.1	6071.6	5520.9	4970.1	4432.4	3934.1	3470.8
47.5°	8816.8	8493.3	8139.2	7732.7	7330.6	6762.3	6207.1	5599.5	5000.7	4428.1	3886.0
45°	9472.5	9144.6	8777.4	8388.4	7925.0	7418.0	6845.3	6233.4	5590.8	4948.2	4323.1
42.5°	10066.9	9739.1	9367.6	8965.4	8506.4	8003.7	7448.6	6832.2	6185.3	5485.9	4799.6
40°	10587.1	10268.0	9909.6	9489.9	9061.6	8532.6	7986.2	7400.5	6731.7	6027.9	5271.7
37.5°	11041.7	10744.5	10390.4	9975.2	9520.5	9048.5	8484.6	7898.8	7295.6	6530.6	5756.9
35°	11443.9	11168.5	10805.7	10412.3	9966.4	9468.1	8939.2	8366.5	7715.2	6998.3	6246.5
32.5°	11793.6	11513.8	11181.6	10788.2	10355.4	9887.7	9345.7	8768.7	8152.3	7422.4	6604.9
30°	12090.8	11819.8	11505.1	11133.5	10718.3	10254.9	9726.0	9144.6	8515.2	7789.5	6980.9
27.5°	12348.7	12090.8	11784.8	11439.5	11041.7	10595.9	10062.6	9476.8	8834.3	8134.9	7326.2
25°	12571.7	12322.5	12038.4	11710.5	11317.1	10880.0	10377.3	9765.3	9122.8	8419.0	7619.1
22.5°	12772.7	12532.3	12248.2	11929.1	11570.7	11133.5	10626.5	10018.9	9367.6	8672.5	7885.7
20°	12952.0	12729.0	12449.3	12121.4	11763.0	11321.5	10818.8	10241.8	9586.1	8904.2	8126.1
17.5°	13096.2	12899.5	12619.7	12274.4	11916.0	11487.6	10998.0	10469.1	9774.1	9100.9	8327.2
15°	13196.7	13004.4	12750.9	12401.2	12051.5	11627.5	11137.9	10591.5	9944.6	9258.3	8493.3
12.5°	13266.7	13061.2	12825.2	12501.7	12152.0	11732.4	11255.9	10718.3	10088.8	9398.1	8637.6
10°	13284.2	13096.2	12860.2	12571.7	12230.7	11824.2	11356.5	10823.2	10206.8	9507.4	8755.6
7.5°	13292.9	13113.7	12899.5	12624.1	12287.5	11894.1	11430.8	10906.2	10294.3	9599.2	8843.0
5°	13288.5	13118.1	12925.7	12659.1	12322.5	11933.5	11478.9	10963.0	10355.4	9660.4	8908.6
2.5°	13275.4	13122.4	12943.2	12685.3	12361.8	11977.2	11526.9	11028.6	10421.0	9712.9	8961.0
0°	13310.4	13179.3	12952.0	12676.6	12370.6	11977.2	11522.6	11037.4	10429.8	9708.5	8956.7



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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°	109.3	104.9	104.9	100.5	96.2	91.8	83.1	78.7	69.9	56.8	43.7
85°	236.0	222.9	209.8	201.1	192.3	183.6	170.5	157.4	139.9	113.7	87.4
82.5°	415.3	389.0	362.8	332.2	306.0	279.8	257.9	236.0	209.8	170.5	131.1
80°	594.5	555.1	515.8	472.1	432.8	389.0	349.7	314.7	279.8	227.3	174.8
77.5°	773.7	721.3	664.4	612.0	555.1	498.3	441.5	393.4	341.0	279.8	218.6
75°	939.8	878.6	826.2	751.9	681.9	607.6	533.3	467.7	402.2	327.8	262.3
72.5°	1105.9	1027.2	952.9	883.0	804.3	712.5	629.5	546.4	463.4	375.9	297.2
70°	1272.0	1175.9	1084.1	1001.0	913.6	821.8	721.3	625.1	524.5	419.6	327.8
67.5°	1442.5	1333.2	1228.3	1123.4	1022.9	918.0	813.0	703.8	585.7	463.4	362.8
65°	1630.5	1495.0	1368.2	1250.2	1132.1	1018.5	900.5	782.5	651.3	511.4	393.4
62.5°	1818.4	1669.8	1521.2	1372.6	1241.4	1114.7	987.9	856.8	712.5	563.9	424.0
60°	2019.5	1849.0	1678.6	1512.4	1350.7	1210.8	1071.0	931.1	778.1	612.0	454.6
57.5°	2242.4	2037.0	1844.7	1656.7	1473.1	1307.0	1154.0	1005.4	834.9	660.1	489.6
55°	2496.0	2242.4	2015.1	1805.3	1604.2	1403.2	1237.1	1084.1	900.5	708.1	528.9
52.5°	2762.6	2469.7	2194.4	1958.3	1744.1	1516.8	1315.7	1145.3	966.0	756.2	563.9
50°	3073.0	2701.4	2395.4	2106.9	1866.5	1630.5	1398.8	1215.2	1031.6	813.0	598.9
47.5°	3392.1	2981.2	2596.5	2281.8	1997.7	1739.8	1495.0	1276.4	1092.8	865.5	633.8
45°	3763.6	3247.8	2823.8	2452.3	2124.4	1853.4	1591.1	1342.0	1145.3	918.0	668.8
42.5°	4122.1	3562.6	3059.9	2640.2	2268.7	1962.7	1678.6	1411.9	1197.7	970.4	699.4
40°	4546.1	3877.3	3287.2	2819.4	2412.9	2067.6	1766.0	1486.2	1245.8	1018.5	730.0
37.5°	4952.6	4196.4	3562.6	3016.2	2552.8	2172.5	1853.4	1556.2	1289.5	1066.6	769.3
35°	5354.8	4550.5	3824.8	3199.7	2697.1	2290.5	1940.8	1621.7	1333.2	1105.9	804.3
32.5°	5739.4	4882.7	4091.5	3405.2	2854.4	2399.8	2019.5	1682.9	1376.9	1140.9	839.3
30°	6097.9	5197.4	4353.7	3615.0	2998.7	2500.3	2093.8	1744.1	1429.4	1171.5	874.2
27.5°	6425.7	5503.4	4616.0	3811.7	3134.2	2592.1	2172.5	1800.9	1473.1	1202.1	904.8
25°	6723.0	5778.8	4856.4	3990.9	3256.6	2692.7	2246.8	1857.8	1512.4	1228.3	931.1
22.5°	7002.7	6032.3	5075.0	4170.2	3405.2	2793.2	2316.8	1910.2	1551.8	1254.5	957.3
20°	7247.5	6264.0	5284.8	4349.4	3536.3	2885.0	2378.0	1958.3	1586.8	1272.0	983.5
17.5°	7444.2	6469.4	5472.8	4506.7	3650.0	2963.7	2430.4	2002.0	1617.4	1293.9	1001.0
15°	7619.1	6644.3	5630.1	4642.2	3750.5	3029.3	2478.5	2037.0	1643.6	1307.0	1022.9
12.5°	7767.7	6792.9	5765.7	4760.3	3837.9	3086.1	2517.8	2063.2	1665.4	1320.1	1036.0
10°	7890.1	6910.9	5879.3	4852.1	3907.9	3129.8	2548.4	2089.4	1682.9	1333.2	1049.1
7.5°	7981.9	6998.3	5962.4	4930.7	3964.7	3160.4	2574.7	2106.9	1700.4	1342.0	1071.0
5°	8051.8	7072.7	6027.9	4983.2	4008.4	3204.1	2605.3	2128.8	1717.9	1350.7	1071.0
2.5°	8104.3	7133.9	6080.4	5026.9	4043.4	3195.4	2605.3	2124.4	1717.9	1350.7	1066.6
0°	8095.5	7138.2	6076.0	5026.9	4043.4	3186.6	2605.3	2120.0	1717.9	1350.7	1066.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	30.6	21.9	8.7	0.0
85°	65.6	43.7	21.9	0.0
82.5°	96.2	61.2	30.6	0.0
80°	126.8	83.1	39.3	0.0
77.5°	161.7	104.9	52.5	0.0
75°	192.3	122.4	61.2	0.0
72.5°	222.9	144.3	69.9	0.0
70°	249.2	161.7	78.7	0.0
67.5°	275.4	183.6	91.8	0.0
65°	297.2	201.1	100.5	0.0
62.5°	314.7	222.9	109.3	0.0
60°	336.6	240.4	118.0	0.0
57.5°	354.1	253.5	126.8	0.0
55°	371.6	262.3	135.5	0.0
52.5°	389.0	275.4	144.3	0.0
50°	406.5	288.5	153.0	0.0
47.5°	424.0	297.2	157.4	0.0
45°	450.2	310.4	166.1	0.0
42.5°	472.1	319.1	174.8	0.0
40°	493.9	327.8	179.2	0.0
37.5°	515.8	336.6	188.0	0.0
35°	537.7	345.3	192.3	0.0
32.5°	555.1	354.1	196.7	0.0
30°	572.6	362.8	201.1	0.0
27.5°	590.1	367.2	205.4	0.0
25°	603.2	375.9	209.8	0.0
22.5°	616.3	380.3	214.2	0.0
20°	625.1	384.7	218.6	0.0
17.5°	638.2	389.0	222.9	0.0
15°	642.6	393.4	231.7	0.0
12.5°	651.3	397.8	231.7	0.0
10°	655.7	402.2	231.7	0.0
7.5°	664.4	402.2	231.7	0.0
5°	660.1	402.2	231.7	0.0
2.5°	660.1	402.2	231.7	0.0
0°	655.7	402.2	231.7	0.0

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