

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: P628164

Luminaire Tested: **IFLD-S-SA6E-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628164
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	40112.7 lumens	Max Intensity:	13075.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

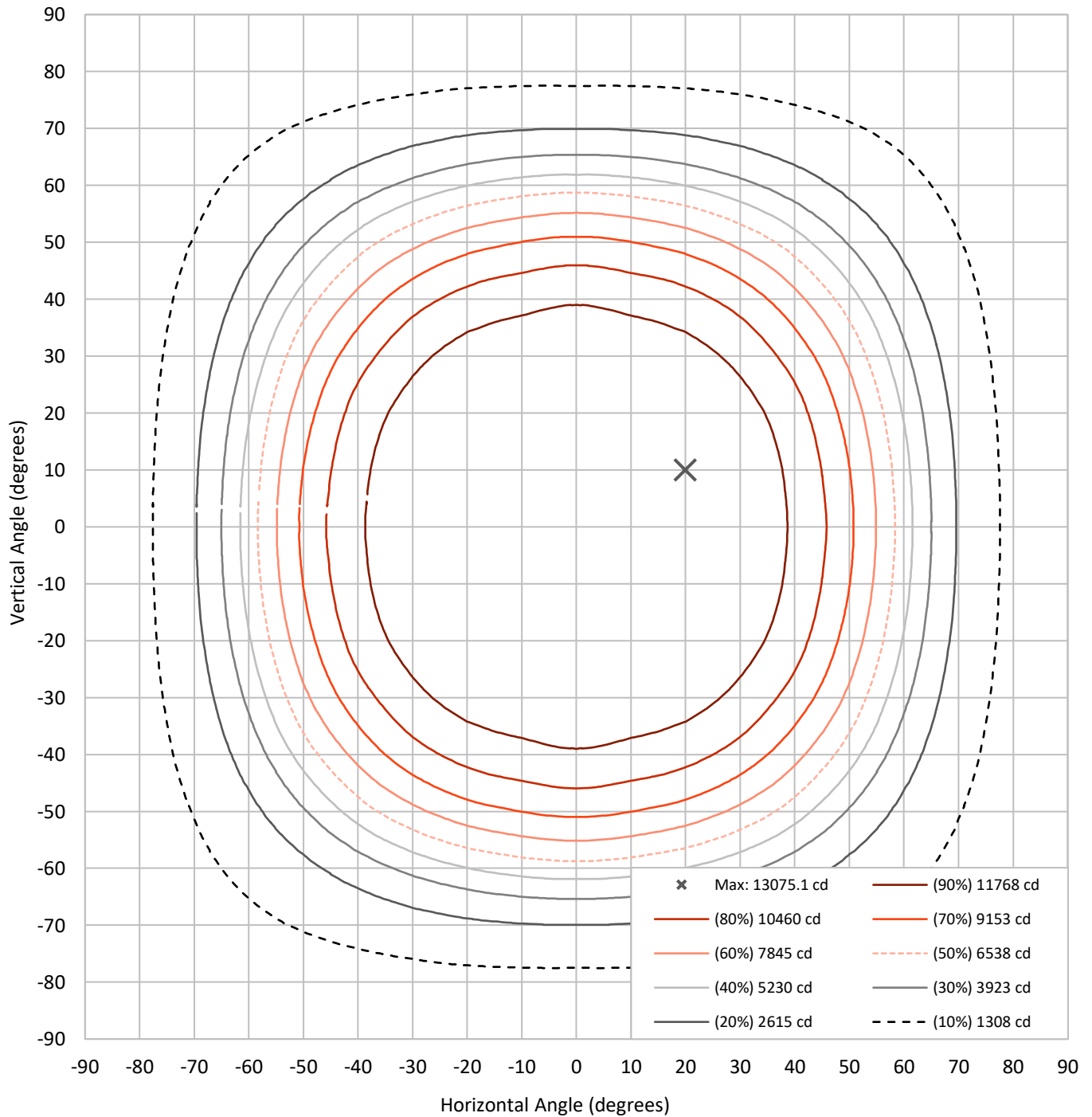
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	24614 lumens	Field Lumens:	29507.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2
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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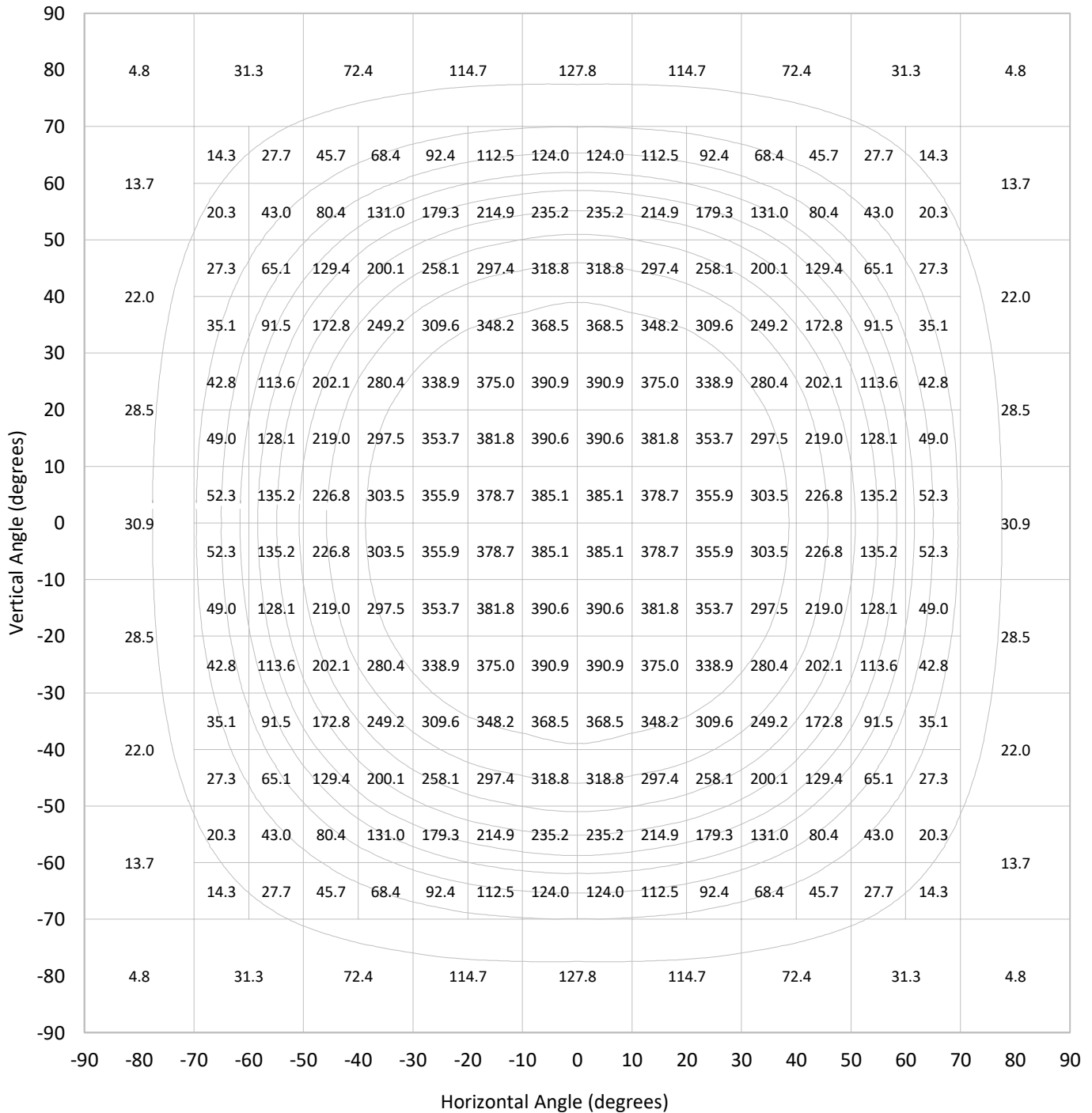
Iso-Candela Plot





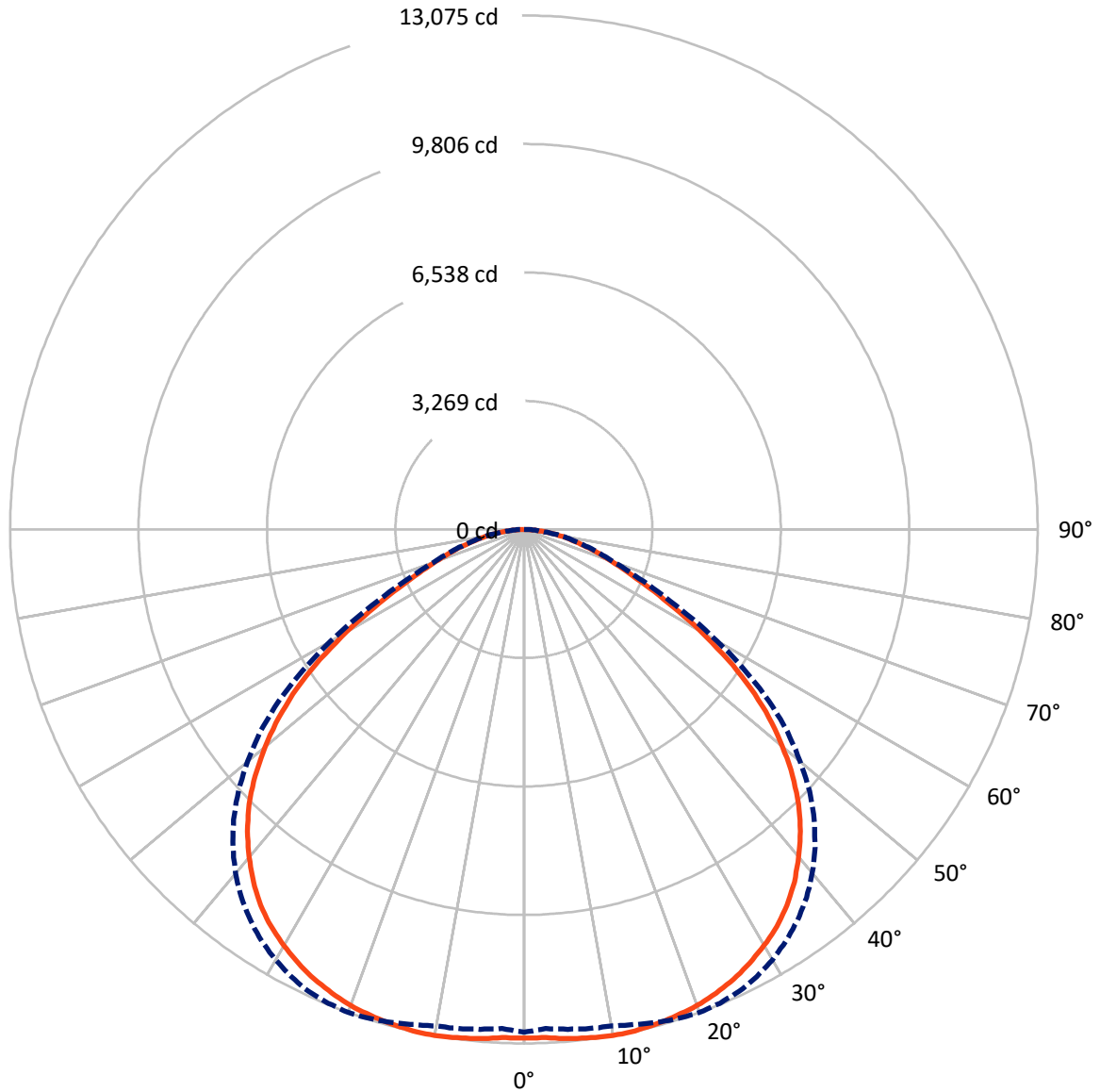
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Lumen Table



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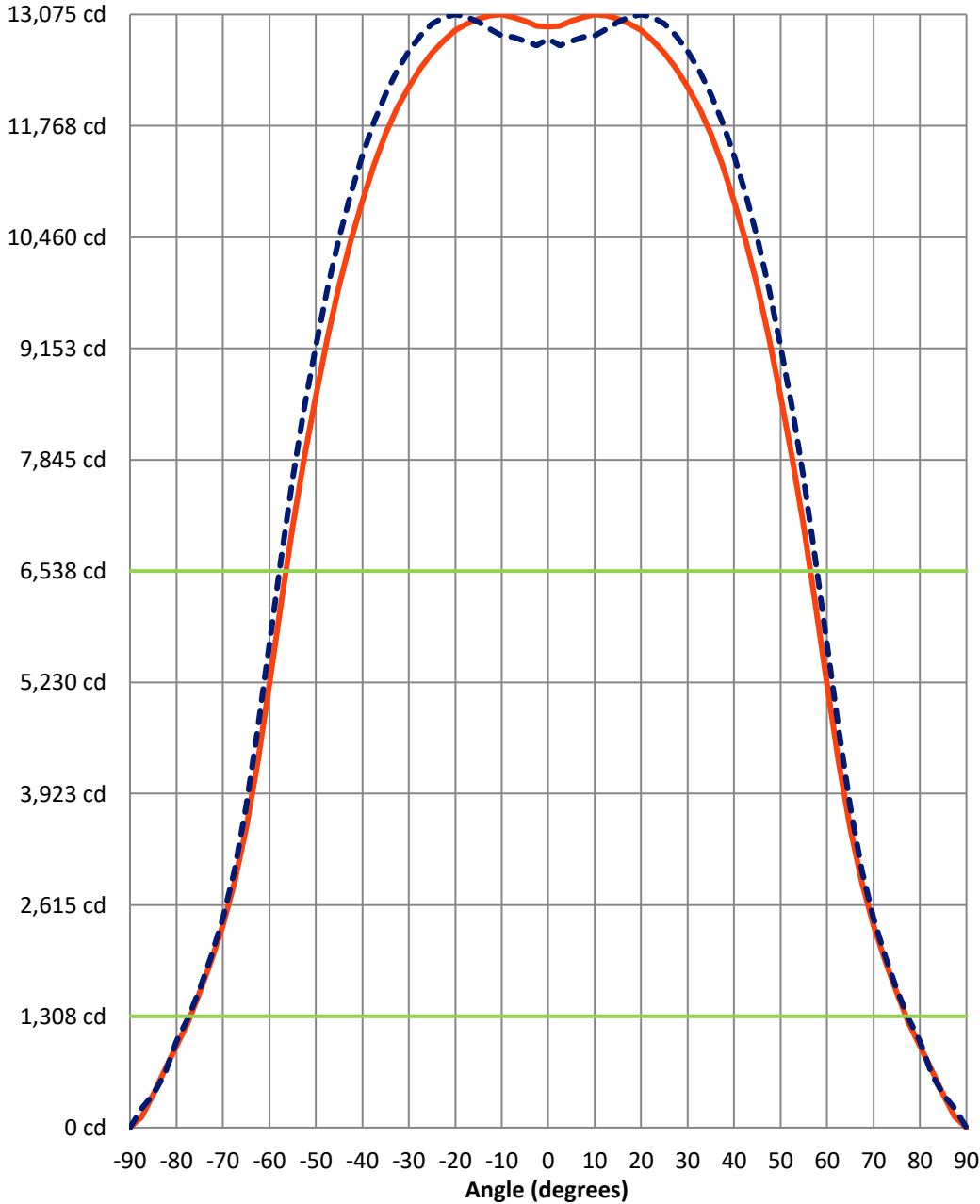
Luminous Intensity Polar Plot



— 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: 24614
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 29507.9
 Efficiency: 73.6%

Spill:
 Lumens: 10604.7
 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°	105.5	114.0	118.2	122.4	126.6	130.8	135.1	130.8	126.6	126.6	122.4
85°	282.8	291.2	295.4	325.0	354.5	371.4	392.5	388.3	388.3	384.1	379.8
82.5°	565.5	590.9	612.0	641.5	658.4	683.7	700.6	687.9	679.5	662.6	650.0
80°	1004.5	1012.9	1017.1	1021.4	1000.3	996.0	987.6	974.9	958.1	937.0	915.8
77.5°	1278.8	1287.3	1295.7	1287.3	1283.0	1278.8	1266.2	1253.5	1236.6	1219.7	1194.4
75°	1692.4	1692.4	1692.4	1679.8	1671.3	1658.7	1637.6	1616.5	1586.9	1553.1	1515.2
72.5°	2131.4	2127.1	2122.9	2097.6	2076.5	2051.2	2021.6	1996.3	1962.5	1924.5	1873.9
70°	2591.4	2599.8	2604.0	2570.3	2545.0	2511.2	2473.2	2426.8	2376.1	2321.3	2249.5
67.5°	3224.5	3216.0	3207.6	3161.2	3127.4	3081.0	3026.1	2958.6	2882.6	2798.2	2696.9
65°	4009.5	4022.1	3996.8	3950.4	3887.1	3811.1	3726.7	3629.6	3515.7	3389.1	3245.6
62.5°	4959.1	4980.2	4950.6	4891.6	4811.4	4710.1	4591.9	4452.6	4296.5	4119.2	3941.9
60°	6039.5	6035.3	5980.4	5900.3	5794.7	5668.1	5537.3	5385.4	5208.1	5001.3	4786.0
57.5°	7031.4	7022.9	6955.4	6875.2	6769.7	6634.6	6495.4	6335.0	6149.3	5929.8	5680.8
55°	7921.9	7913.4	7845.9	7761.5	7651.8	7516.7	7390.1	7238.2	7056.7	6824.5	6558.7
52.5°	8711.1	8715.3	8656.2	8563.4	8445.2	8314.4	8192.0	8040.1	7867.0	7634.9	7377.4
50°	9437.0	9432.8	9369.5	9285.1	9175.4	9048.8	8926.4	8774.4	8592.9	8369.3	8120.2
47.5°	10112.3	10103.9	10032.1	9939.3	9825.3	9715.6	9601.6	9466.6	9276.7	9053.0	8804.0
45°	10677.9	10661.0	10589.2	10500.6	10390.9	10293.8	10192.5	10091.2	9888.6	9681.8	9445.5
42.5°	11163.2	11159.0	11087.3	10998.6	10888.9	10804.5	10711.6	10585.0	10416.2	10226.3	9994.1
40°	11627.5	11593.7	11522.0	11437.6	11336.3	11264.5	11171.7	11045.1	10880.5	10694.7	10471.1
37.5°	11973.6	11977.8	11901.8	11809.0	11720.3	11652.8	11568.4	11450.2	11306.7	11125.2	10901.6
35°	12302.8	12281.7	12218.3	12138.2	12058.0	11982.0	11893.4	11792.1	11673.9	11505.1	11294.1
32.5°	12518.0	12547.5	12471.6	12387.2	12340.7	12281.7	12188.8	12083.3	11977.8	11809.0	11619.0
30°	12754.4	12729.0	12669.9	12598.2	12564.4	12526.4	12446.3	12345.0	12222.6	12070.6	11893.4
27.5°	12919.0	12906.3	12834.5	12767.0	12750.1	12716.4	12653.1	12564.4	12442.0	12294.3	12129.7
25°	12990.7	12999.1	12931.6	12893.6	12893.6	12872.5	12821.9	12745.9	12623.5	12488.5	12328.1
22.5°	13024.5	13016.0	12969.6	12961.2	12982.3	12965.4	12944.3	12876.7	12767.0	12657.3	12522.2
20°	13045.6	12986.5	12944.3	12978.0	13003.4	12999.1	12982.3	12940.1	12889.4	12796.6	12678.4
17.5°	12999.1	12961.2	12910.5	12961.2	13016.0	13020.2	13003.4	12978.0	12965.4	12906.3	12800.8
15°	12885.2	12855.6	12864.1	12914.7	12978.0	12999.1	13011.8	13041.3	13024.5	12978.0	12885.2
12.5°	12809.2	12771.2	12809.2	12859.9	12893.6	12906.3	13007.6	13062.4	13062.4	13020.2	12961.2
10°	12788.1	12712.1	12762.8	12809.2	12826.1	12902.1	12986.5	13045.6	13075.1	13041.3	12965.4
7.5°	12745.9	12695.3	12716.4	12737.5	12834.5	12889.4	12935.8	12999.1	13041.3	13037.1	12969.6
5°	12724.8	12661.5	12669.9	12758.6	12826.1	12864.1	12881.0	12935.8	12999.1	13011.8	12961.2
2.5°	12669.9	12640.4	12703.7	12712.1	12762.8	12792.3	12809.2	12859.9	12940.1	12969.6	12948.5
0°	12640.4	12598.2	12556.0	12589.8	12674.2	12737.5	12762.8	12838.8	12931.6	12961.2	12914.7



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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°	118.2	114.0	109.7	105.5	109.7	109.7	109.7	105.5	109.7	105.5	105.5
85°	367.2	350.3	337.6	320.8	303.9	291.2	274.3	257.5	253.2	249.0	240.6
82.5°	633.1	612.0	590.9	565.5	540.2	510.7	481.1	447.4	438.9	430.5	417.8
80°	890.5	861.0	831.4	801.9	776.6	747.0	713.3	675.3	650.0	628.9	603.5
77.5°	1160.6	1118.4	1076.2	1025.6	996.0	966.5	932.7	894.7	856.8	823.0	785.0
75°	1468.7	1422.3	1380.1	1329.5	1274.6	1219.7	1164.9	1114.2	1059.3	1008.7	958.1
72.5°	1810.6	1743.1	1675.5	1612.2	1544.7	1477.2	1405.4	1337.9	1270.4	1202.8	1131.1
70°	2169.3	2084.9	2000.5	1916.1	1827.5	1738.8	1654.4	1570.0	1485.6	1397.0	1316.8
67.5°	2591.4	2494.3	2384.6	2266.4	2135.6	2021.6	1911.9	1810.6	1709.3	1608.0	1506.7
65°	3119.0	2983.9	2836.2	2675.8	2523.9	2371.9	2211.5	2059.6	1941.4	1823.3	1709.3
62.5°	3768.9	3579.0	3372.2	3165.4	2979.7	2781.3	2595.6	2397.2	2211.5	2042.7	1903.4
60°	4545.5	4288.0	4034.8	3768.9	3511.5	3241.3	3005.0	2760.2	2528.1	2321.3	2118.7
57.5°	5402.2	5102.6	4798.7	4473.7	4123.4	3806.9	3486.1	3165.4	2891.0	2616.7	2388.8
55°	6271.7	5955.1	5613.3	5246.1	4862.0	4456.8	4022.1	3663.4	3287.8	2967.0	2671.6
52.5°	7098.9	6769.7	6415.2	6077.5	5617.5	5153.2	4676.3	4203.6	3764.7	3355.3	2996.6
50°	7837.5	7516.7	7174.9	6782.3	6356.1	5862.3	5330.5	4798.7	4279.6	3798.5	3351.1
47.5°	8512.7	8200.4	7858.6	7466.1	7077.8	6529.1	5993.1	5406.5	4828.3	4275.4	3752.0
45°	9145.8	8829.3	8474.8	8099.1	7651.8	7162.2	6609.3	6018.4	5398.0	4777.6	4174.1
42.5°	9719.8	9403.3	9044.5	8656.2	8213.1	7727.7	7191.7	6596.6	5972.0	5296.7	4634.1
40°	10222.1	9914.0	9567.9	9162.7	8749.1	8238.4	7710.9	7145.3	6499.6	5820.1	5089.9
37.5°	10661.0	10374.0	10032.1	9631.2	9192.3	8736.4	8192.0	7626.4	7044.0	6305.4	5558.4
35°	11049.3	10783.4	10433.1	10053.2	9622.7	9141.6	8630.9	8078.0	7449.2	6757.0	6031.1
32.5°	11386.9	11116.8	10796.0	10416.2	9998.4	9546.8	9023.4	8466.3	7871.2	7166.4	6377.2
30°	11673.9	11412.2	11108.4	10749.6	10348.7	9901.3	9390.6	8829.3	8221.5	7520.9	6740.1
27.5°	11922.9	11673.9	11378.5	11045.1	10661.0	10230.5	9715.6	9150.0	8529.6	7854.4	7073.6
25°	12138.2	11897.6	11623.3	11306.7	10926.9	10504.8	10019.5	9428.6	8808.2	8128.7	7356.3
22.5°	12332.3	12100.2	11825.8	11517.7	11171.7	10749.6	10260.0	9673.4	9044.5	8373.5	7613.8
20°	12505.3	12290.1	12020.0	11703.4	11357.4	10931.1	10445.7	9888.6	9255.6	8597.2	7845.9
17.5°	12644.6	12454.7	12184.6	11851.2	11505.1	11091.5	10618.8	10108.1	9437.0	8787.1	8040.1
15°	12741.7	12556.0	12311.2	11973.6	11635.9	11226.5	10753.8	10226.3	9601.6	8939.0	8200.4
12.5°	12809.2	12610.9	12382.9	12070.6	11733.0	11327.8	10867.8	10348.7	9740.9	9074.1	8339.7
10°	12826.1	12644.6	12416.7	12138.2	11809.0	11416.5	10964.9	10450.0	9854.9	9179.6	8453.7
7.5°	12834.5	12661.5	12454.7	12188.8	11863.8	11484.0	11036.6	10530.1	9939.3	9268.2	8538.1
5°	12830.3	12665.7	12480.0	12222.6	11897.6	11522.0	11083.0	10585.0	9998.4	9327.3	8601.4
2.5°	12817.7	12669.9	12496.9	12247.9	11935.6	11564.2	11129.5	10648.3	10061.7	9378.0	8652.0
0°	12851.4	12724.8	12505.3	12239.5	11944.0	11564.2	11125.2	10656.8	10070.1	9373.7	8647.8



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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°	105.5	101.3	101.3	97.1	92.9	88.6	80.2	76.0	67.5	54.9	42.2
85°	227.9	215.2	202.6	194.1	185.7	177.3	164.6	151.9	135.1	109.7	84.4
82.5°	400.9	375.6	350.3	320.8	295.4	270.1	249.0	227.9	202.6	164.6	126.6
80°	574.0	536.0	498.0	455.8	417.8	375.6	337.6	303.9	270.1	219.5	168.8
77.5°	747.0	696.4	641.5	590.9	536.0	481.1	426.3	379.8	329.2	270.1	211.0
75°	907.4	848.3	797.7	725.9	658.4	586.6	514.9	451.6	388.3	316.5	253.2
72.5°	1067.8	991.8	920.1	852.5	776.6	687.9	607.8	527.6	447.4	363.0	287.0
70°	1228.2	1135.3	1046.7	966.5	882.1	793.5	696.4	603.5	506.5	405.2	316.5
67.5°	1392.8	1287.3	1186.0	1084.7	987.6	886.3	785.0	679.5	565.5	447.4	350.3
65°	1574.2	1443.4	1321.0	1207.1	1093.1	983.4	869.4	755.5	628.9	493.8	379.8
62.5°	1755.7	1612.2	1468.7	1325.2	1198.6	1076.2	953.8	827.2	687.9	544.4	409.4
60°	1949.9	1785.3	1620.7	1460.3	1304.1	1169.1	1034.0	899.0	751.2	590.9	438.9
57.5°	2165.1	1966.8	1781.1	1599.6	1422.3	1261.9	1114.2	970.7	806.1	637.3	472.7
55°	2409.9	2165.1	1945.7	1743.1	1548.9	1354.8	1194.4	1046.7	869.4	683.7	510.7
52.5°	2667.4	2384.6	2118.7	1890.8	1684.0	1464.5	1270.4	1105.8	932.7	730.1	544.4
50°	2967.0	2608.3	2312.8	2034.3	1802.2	1574.2	1350.6	1173.3	996.0	785.0	578.2
47.5°	3275.1	2878.4	2507.0	2203.1	1928.8	1679.8	1443.4	1232.4	1055.1	835.7	612.0
45°	3633.9	3135.8	2726.4	2367.7	2051.2	1789.5	1536.3	1295.7	1105.8	886.3	645.7
42.5°	3979.9	3439.7	2954.4	2549.2	2190.4	1895.0	1620.7	1363.2	1156.4	937.0	675.3
40°	4389.3	3743.6	3173.8	2722.2	2329.7	1996.3	1705.1	1435.0	1202.8	983.4	704.8
37.5°	4781.8	4051.7	3439.7	2912.1	2464.8	2097.6	1789.5	1502.5	1245.0	1029.8	742.8
35°	5170.1	4393.5	3692.9	3089.4	2604.0	2211.5	1873.9	1565.8	1287.3	1067.8	776.6
32.5°	5541.5	4714.3	3950.4	3287.8	2756.0	2317.1	1949.9	1624.9	1329.5	1101.6	810.3
30°	5887.6	5018.2	4203.6	3490.4	2895.3	2414.1	2021.6	1684.0	1380.1	1131.1	844.1
27.5°	6204.1	5313.6	4456.8	3680.3	3026.1	2502.8	2097.6	1738.8	1422.3	1160.6	873.6
25°	6491.1	5579.5	4689.0	3853.3	3144.3	2599.8	2169.3	1793.7	1460.3	1186.0	899.0
22.5°	6761.2	5824.3	4900.0	4026.4	3287.8	2696.9	2236.9	1844.4	1498.3	1211.3	924.3
20°	6997.6	6048.0	5102.6	4199.4	3414.4	2785.5	2296.0	1890.8	1532.0	1228.2	949.6
17.5°	7187.5	6246.3	5284.1	4351.3	3524.1	2861.5	2346.6	1933.0	1561.6	1249.3	966.5
15°	7356.3	6415.2	5436.0	4482.2	3621.2	2924.8	2393.0	1966.8	1586.9	1261.9	987.6
12.5°	7499.8	6558.7	5566.8	4596.1	3705.6	2979.7	2431.0	1992.1	1608.0	1274.6	1000.3
10°	7618.0	6672.6	5676.6	4684.8	3773.1	3021.9	2460.6	2017.4	1624.9	1287.3	1012.9
7.5°	7706.6	6757.0	5756.8	4760.7	3828.0	3051.4	2485.9	2034.3	1641.8	1295.7	1034.0
5°	7774.2	6828.8	5820.1	4811.4	3870.2	3093.6	2515.4	2055.4	1658.7	1304.1	1034.0
2.5°	7824.8	6887.9	5870.7	4853.6	3904.0	3085.2	2515.4	2051.2	1658.7	1304.1	1029.8
0°	7816.4	6892.1	5866.5	4853.6	3904.0	3076.7	2515.4	2046.9	1658.7	1304.1	1029.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	29.5	21.1	8.4	0.0
85°	63.3	42.2	21.1	0.0
82.5°	92.9	59.1	29.5	0.0
80°	122.4	80.2	38.0	0.0
77.5°	156.2	101.3	50.6	0.0
75°	185.7	118.2	59.1	0.0
72.5°	215.2	139.3	67.5	0.0
70°	240.6	156.2	76.0	0.0
67.5°	265.9	177.3	88.6	0.0
65°	287.0	194.1	97.1	0.0
62.5°	303.9	215.2	105.5	0.0
60°	325.0	232.1	114.0	0.0
57.5°	341.9	244.8	122.4	0.0
55°	358.7	253.2	130.8	0.0
52.5°	375.6	265.9	139.3	0.0
50°	392.5	278.6	147.7	0.0
47.5°	409.4	287.0	151.9	0.0
45°	434.7	299.7	160.4	0.0
42.5°	455.8	308.1	168.8	0.0
40°	476.9	316.5	173.0	0.0
37.5°	498.0	325.0	181.5	0.0
35°	519.1	333.4	185.7	0.0
32.5°	536.0	341.9	189.9	0.0
30°	552.9	350.3	194.1	0.0
27.5°	569.8	354.5	198.4	0.0
25°	582.4	363.0	202.6	0.0
22.5°	595.1	367.2	206.8	0.0
20°	603.5	371.4	211.0	0.0
17.5°	616.2	375.6	215.2	0.0
15°	620.4	379.8	223.7	0.0
12.5°	628.9	384.1	223.7	0.0
10°	633.1	388.3	223.7	0.0
7.5°	641.5	388.3	223.7	0.0
5°	637.3	388.3	223.7	0.0
2.5°	637.3	388.3	223.7	0.0
0°	633.1	388.3	223.7	0.0

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