

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: P628250

Luminaire Tested: **IFLD-S-SA6D-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628250
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	46410.9 lumens	Max Intensity:	15128.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	126.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

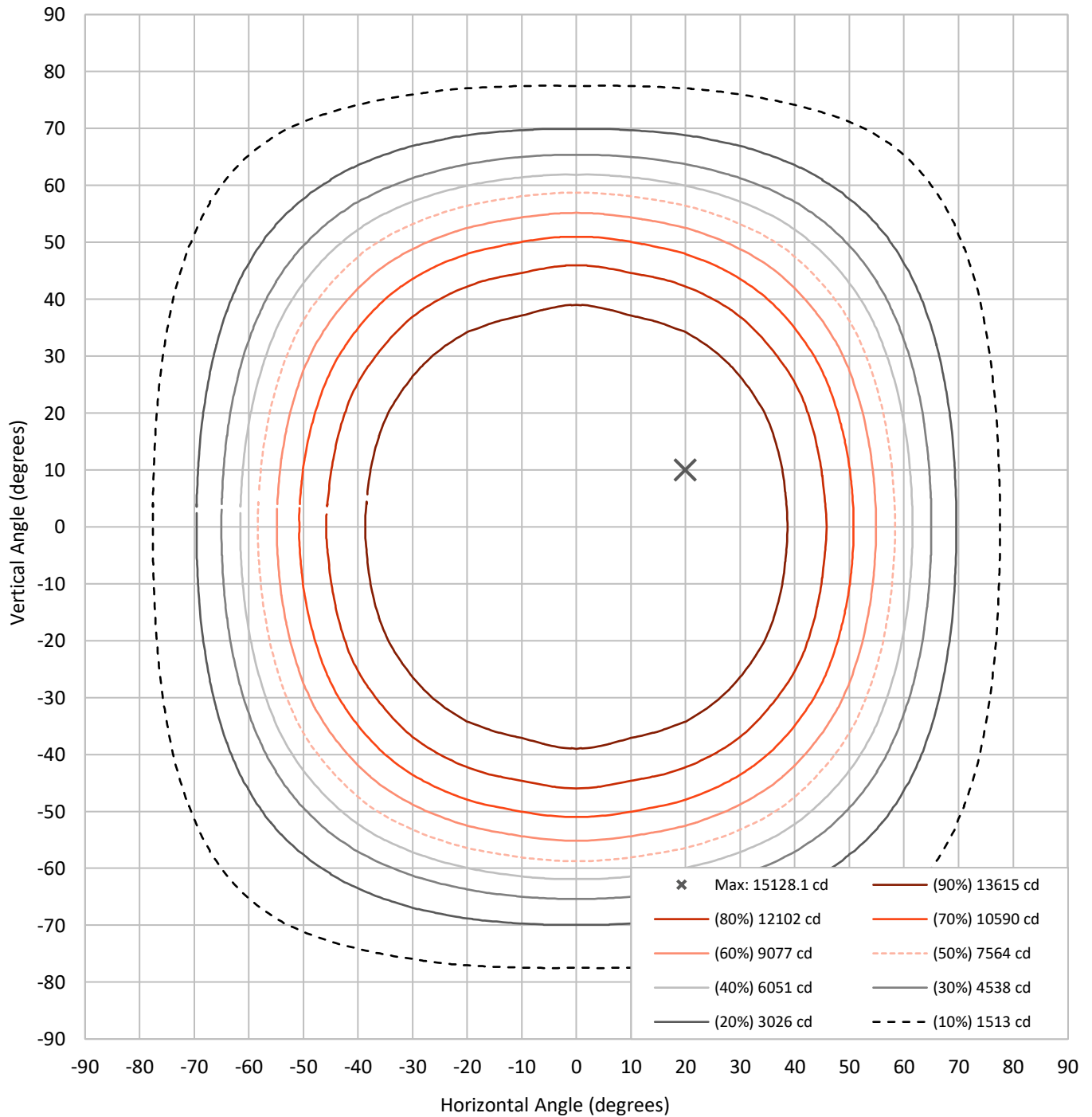
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	28478.7 lumens	Field Lumens:	34141.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 368.2
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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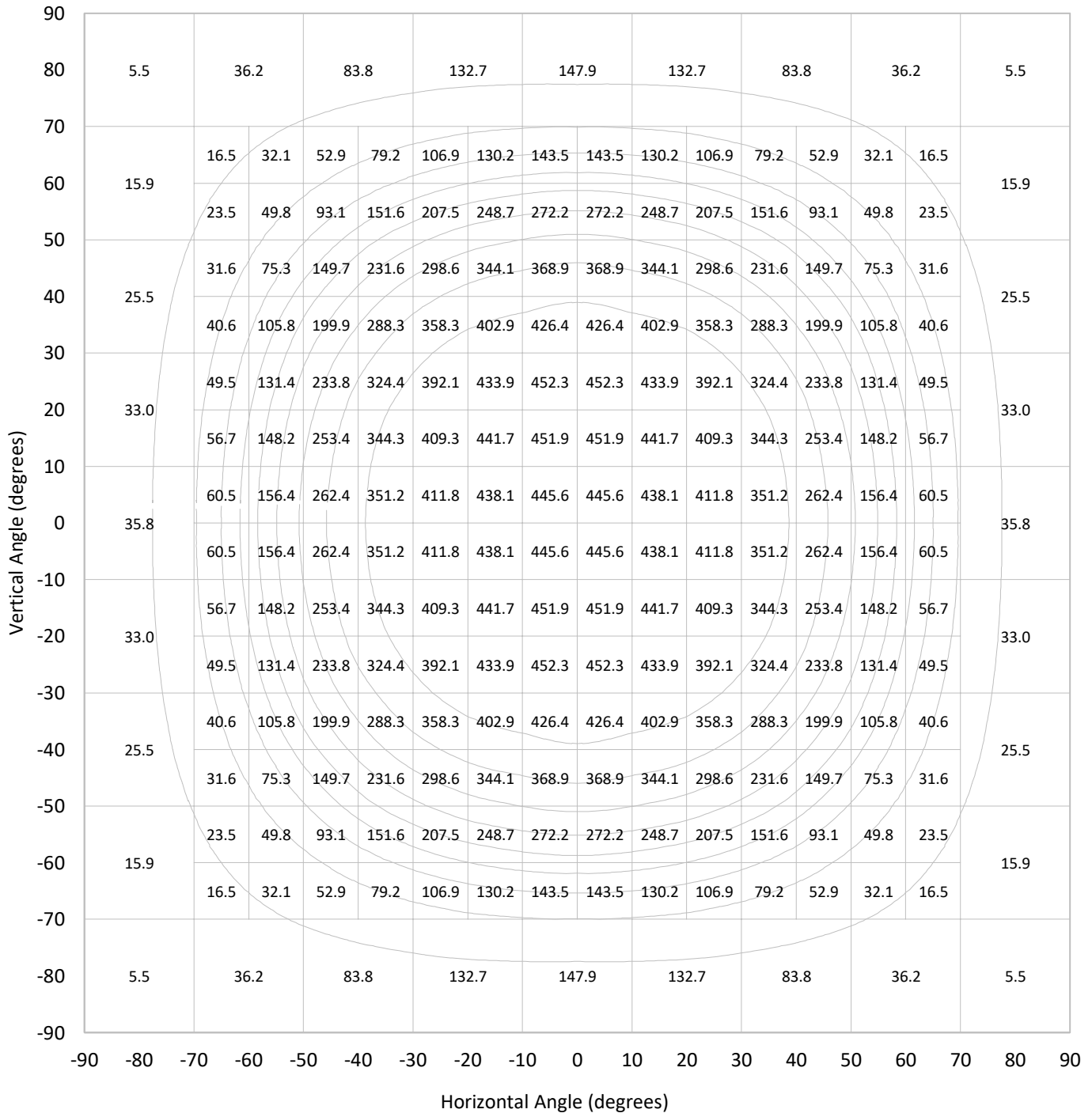
Iso-Candela Plot





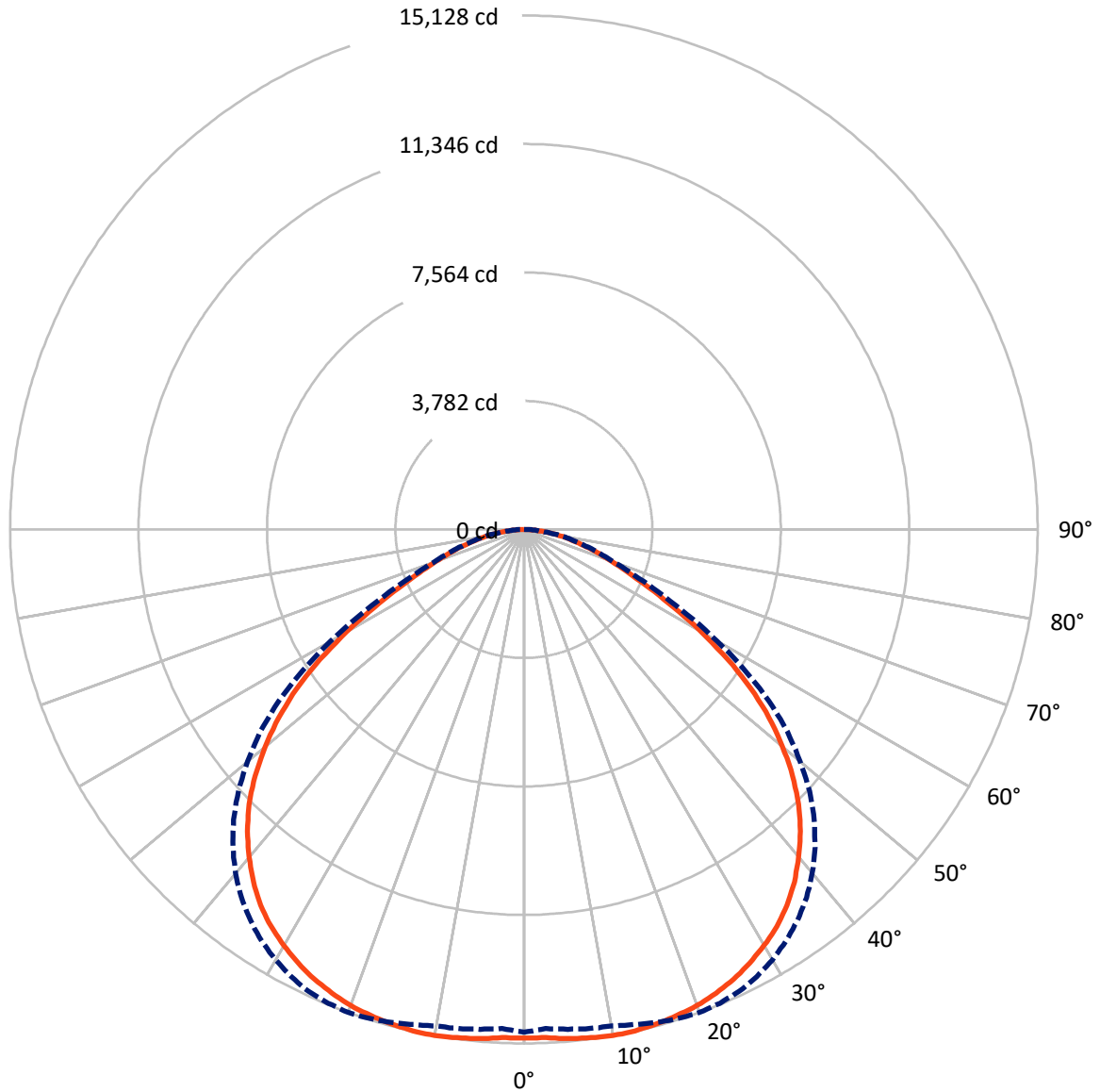
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Lumen Table



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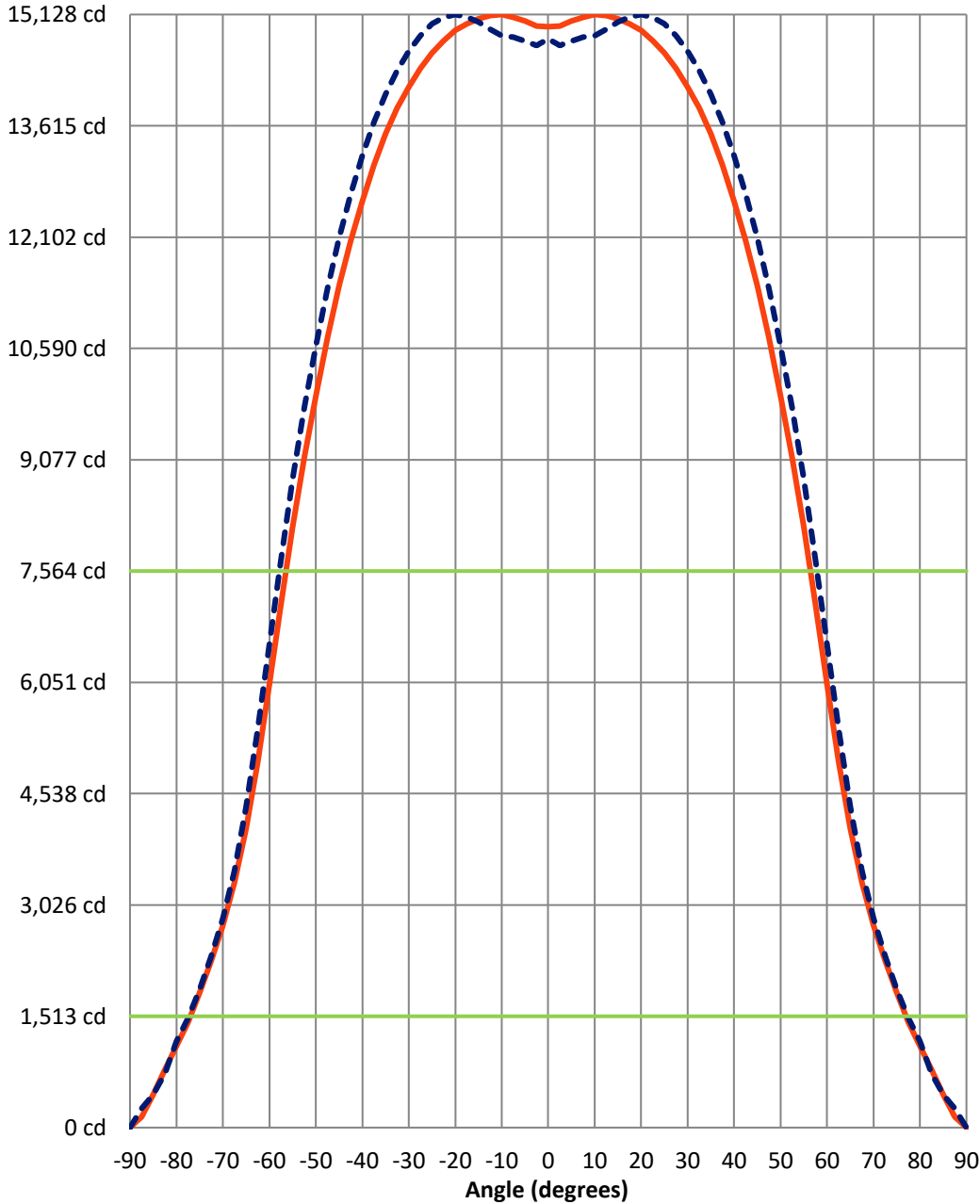
Luminous Intensity Polar Plot



— 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: 28478.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 34141.1
 Efficiency: 73.6%

Spill:
 Lumens: 12269.8
 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°	122.1	131.8	136.7	141.6	146.5	151.4	156.3	151.4	146.5	146.5	141.6
85°	327.2	336.9	341.8	376.0	410.2	429.7	454.1	449.3	449.3	444.4	439.5
82.5°	654.3	683.6	708.1	742.2	761.8	791.1	810.6	796.0	786.2	766.7	752.0
80°	1162.2	1172.0	1176.8	1181.7	1157.3	1152.4	1142.7	1128.0	1108.5	1084.1	1059.7
77.5°	1479.6	1489.4	1499.1	1489.4	1484.5	1479.6	1465.0	1450.3	1430.8	1411.2	1381.9
75°	1958.2	1958.2	1958.2	1943.5	1933.7	1919.1	1894.7	1870.3	1836.1	1797.0	1753.1
72.5°	2466.0	2461.1	2456.2	2426.9	2402.5	2373.2	2339.0	2309.7	2270.7	2226.7	2168.1
70°	2998.3	3008.0	3012.9	2973.9	2944.6	2905.5	2861.5	2807.8	2749.2	2685.7	2602.7
67.5°	3730.8	3721.0	3711.2	3657.5	3618.4	3564.7	3501.2	3423.1	3335.2	3237.5	3120.4
65°	4639.0	4653.7	4624.4	4570.7	4497.4	4409.5	4311.8	4199.5	4067.7	3921.2	3755.2
62.5°	5737.7	5762.2	5728.0	5659.6	5566.8	5449.6	5312.9	5151.8	4971.1	4766.0	4560.9
60°	6987.8	6982.9	6919.5	6826.7	6704.6	6558.1	6406.7	6230.9	6025.8	5786.6	5537.5
57.5°	8135.4	8125.6	8047.5	7954.7	7832.6	7676.4	7515.2	7329.7	7114.8	6860.9	6572.8
55°	9165.7	9156.0	9077.8	8980.2	8853.2	8696.9	8550.4	8374.7	8164.7	7896.1	7588.5
52.5°	10078.9	10083.8	10015.4	9908.0	9771.2	9619.9	9478.3	9302.5	9102.2	8833.7	8535.8
50°	10918.8	10913.9	10840.7	10743.0	10616.0	10469.5	10327.9	10152.1	9942.2	9683.3	9395.2
47.5°	11700.1	11690.3	11607.3	11499.9	11368.0	11241.1	11109.2	10953.0	10733.2	10474.4	10186.3
45°	12354.4	12334.9	12251.9	12149.4	12022.4	11910.1	11792.9	11675.7	11441.3	11202.0	10928.6
42.5°	12916.0	12911.1	12828.1	12725.6	12598.6	12500.9	12393.5	12247.0	12051.7	11831.9	11563.4
40°	13453.2	13414.1	13331.1	13233.4	13116.2	13033.2	12925.8	12779.3	12588.8	12374.0	12115.2
37.5°	13853.6	13858.5	13770.6	13663.1	13560.6	13482.5	13384.8	13248.1	13082.0	12872.1	12613.3
35°	14234.5	14210.1	14136.8	14044.0	13951.2	13863.4	13760.8	13643.6	13506.9	13311.6	13067.4
32.5°	14483.5	14517.7	14429.8	14332.1	14278.4	14210.1	14102.6	13980.5	13858.5	13663.1	13443.4
30°	14757.0	14727.7	14659.3	14576.3	14537.2	14493.3	14400.5	14283.3	14141.7	13965.9	13760.8
27.5°	14947.4	14932.8	14849.8	14771.6	14752.1	14713.0	14639.8	14537.2	14395.6	14224.7	14034.3
25°	15030.4	15040.2	14962.1	14918.1	14918.1	14893.7	14835.1	14747.2	14605.6	14449.3	14263.8
22.5°	15069.5	15059.7	15006.0	14996.2	15020.7	15001.1	14976.7	14898.6	14771.6	14644.7	14488.4
20°	15093.9	15025.5	14976.7	15015.8	15045.1	15040.2	15020.7	14971.8	14913.2	14805.8	14669.1
17.5°	15040.2	14996.2	14937.7	14996.2	15059.7	15064.6	15045.1	15015.8	15001.1	14932.8	14810.7
15°	14908.4	14874.2	14883.9	14942.5	15015.8	15040.2	15054.8	15089.0	15069.5	15015.8	14908.4
12.5°	14820.5	14776.5	14820.5	14879.1	14918.1	14932.8	15050.0	15113.4	15113.4	15064.6	14996.2
10°	14796.0	14708.1	14766.7	14820.5	14840.0	14927.9	15025.5	15093.9	15128.1	15089.0	15001.1
7.5°	14747.2	14688.6	14713.0	14737.4	14849.8	14913.2	14966.9	15040.2	15089.0	15084.1	15006.0
5°	14722.8	14649.5	14659.3	14761.9	14840.0	14883.9	14903.5	14966.9	15040.2	15054.8	14996.2
2.5°	14659.3	14625.1	14698.4	14708.1	14766.7	14800.9	14820.5	14879.1	14971.8	15006.0	14981.6
0°	14625.1	14576.3	14527.5	14566.5	14664.2	14737.4	14766.7	14854.6	14962.1	14996.2	14942.5



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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°	136.7	131.8	127.0	122.1	127.0	127.0	127.0	122.1	127.0	122.1	122.1
85°	424.8	405.3	390.7	371.1	351.6	336.9	317.4	297.9	293.0	288.1	278.3
82.5°	732.5	708.1	683.6	654.3	625.0	590.9	556.7	517.6	507.9	498.1	483.4
80°	1030.4	996.2	962.0	927.8	898.5	864.3	825.3	781.3	752.0	727.6	698.3
77.5°	1342.9	1294.0	1245.2	1186.6	1152.4	1118.2	1079.2	1035.2	991.3	952.2	908.3
75°	1699.3	1645.6	1596.8	1538.2	1474.7	1411.2	1347.8	1289.2	1225.7	1167.1	1108.5
72.5°	2094.9	2016.8	1938.6	1865.4	1787.2	1709.1	1626.1	1548.0	1469.8	1391.7	1308.7
70°	2510.0	2412.3	2314.6	2217.0	2114.4	2011.9	1914.2	1816.5	1718.9	1616.3	1523.6
67.5°	2998.3	2886.0	2759.0	2622.3	2470.9	2339.0	2212.1	2094.9	1977.7	1860.5	1743.3
65°	3608.7	3452.4	3281.5	3095.9	2920.1	2744.3	2558.8	2383.0	2246.3	2109.5	1977.7
62.5°	4360.7	4140.9	3901.7	3662.4	3447.5	3218.0	3003.2	2773.6	2558.8	2363.5	2202.3
60°	5259.2	4961.3	4668.3	4360.7	4062.8	3750.3	3476.8	3193.6	2925.0	2685.7	2451.4
57.5°	6250.5	5903.8	5552.2	5176.2	4770.9	4404.6	4033.5	3662.4	3345.0	3027.6	2763.9
55°	7256.4	6890.2	6494.6	6069.8	5625.4	5156.6	4653.7	4238.6	3804.0	3432.9	3091.1
52.5°	8213.5	7832.6	7422.4	7031.8	6499.5	5962.4	5410.6	4863.6	4355.8	3882.1	3467.1
50°	9068.1	8696.9	8301.4	7847.3	7354.1	6782.7	6167.5	5552.2	4951.5	4394.9	3877.2
47.5°	9849.4	9488.0	9092.5	8638.3	8189.1	7554.3	6934.1	6255.4	5586.4	4946.7	4341.1
45°	10581.9	10215.6	9805.4	9370.8	8853.2	8286.8	7647.1	6963.4	6245.6	5527.8	4829.5
42.5°	11246.0	10879.7	10464.7	10015.4	9502.7	8941.1	8320.9	7632.4	6909.7	6128.4	5361.7
40°	11827.1	11470.6	11070.2	10601.4	10122.8	9532.0	8921.6	8267.2	7520.1	6733.9	5889.1
37.5°	12334.9	12002.9	11607.3	11143.4	10635.6	10108.2	9478.3	8823.9	8150.0	7295.5	6431.1
35°	12784.2	12476.5	12071.2	11631.7	11133.7	10577.0	9986.1	9346.4	8618.8	7818.0	6978.1
32.5°	13174.8	12862.3	12491.2	12051.7	11568.3	11045.8	10440.2	9795.7	9107.1	8291.6	7378.5
30°	13506.9	13204.1	12852.5	12437.5	11973.6	11455.9	10865.1	10215.6	9512.4	8701.8	7798.4
27.5°	13795.0	13506.9	13165.1	12779.3	12334.9	11836.8	11241.1	10586.7	9868.9	9087.6	8184.2
25°	14044.0	13765.7	13448.3	13082.0	12642.6	12154.2	11592.7	10909.0	10191.2	9405.0	8511.4
22.5°	14268.7	14000.1	13682.7	13326.2	12925.8	12437.5	11871.0	11192.3	10464.7	9688.2	8809.3
20°	14468.9	14219.8	13907.3	13541.1	13140.6	12647.4	12085.9	11441.3	10708.8	9947.0	9077.8
17.5°	14630.0	14410.3	14097.7	13712.0	13311.6	12833.0	12286.1	11695.2	10918.8	10166.8	9302.5
15°	14742.3	14527.5	14244.2	13853.6	13462.9	12989.3	12442.3	11831.9	11109.2	10342.6	9488.0
12.5°	14820.5	14590.9	14327.3	13965.9	13575.2	13106.5	12574.2	11973.6	11270.4	10498.8	9649.2
10°	14840.0	14630.0	14366.3	14044.0	13663.1	13209.0	12686.5	12090.8	11402.2	10620.9	9781.0
7.5°	14849.8	14649.5	14410.3	14102.6	13726.6	13287.1	12769.5	12183.5	11499.9	10723.5	9878.7
5°	14844.9	14654.4	14439.6	14141.7	13765.7	13331.1	12823.2	12247.0	11568.3	10791.8	9951.9
2.5°	14830.2	14659.3	14459.1	14171.0	13809.6	13379.9	12876.9	12320.3	11641.5	10850.4	10010.5
0°	14869.3	14722.8	14468.9	14161.2	13819.4	13379.9	12872.1	12330.0	11651.3	10845.5	10005.6



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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°	122.1	117.2	117.2	112.3	107.4	102.5	92.8	87.9	78.1	63.5	48.8
85°	263.7	249.0	234.4	224.6	214.9	205.1	190.4	175.8	156.3	127.0	97.7
82.5°	463.9	434.6	405.3	371.1	341.8	312.5	288.1	263.7	234.4	190.4	146.5
80°	664.1	620.2	576.2	527.4	483.4	434.6	390.7	351.6	312.5	253.9	195.3
77.5°	864.3	805.7	742.2	683.6	620.2	556.7	493.2	439.5	380.9	312.5	244.2
75°	1049.9	981.5	922.9	839.9	761.8	678.8	595.7	522.5	449.3	366.2	293.0
72.5°	1235.4	1147.5	1064.5	986.4	898.5	796.0	703.2	610.4	517.6	420.0	332.1
70°	1421.0	1313.6	1211.0	1118.2	1020.6	918.0	805.7	698.3	586.0	468.8	366.2
67.5°	1611.4	1489.4	1372.2	1255.0	1142.7	1025.5	908.3	786.2	654.3	517.6	405.3
65°	1821.4	1670.0	1528.4	1396.6	1264.7	1137.8	1005.9	874.1	727.6	571.3	439.5
62.5°	2031.4	1865.4	1699.3	1533.3	1386.8	1245.2	1103.6	957.1	796.0	629.9	473.7
60°	2256.0	2065.6	1875.1	1689.6	1508.9	1352.6	1196.4	1040.1	869.2	683.6	507.9
57.5°	2505.1	2275.6	2060.7	1850.7	1645.6	1460.1	1289.2	1123.1	932.7	737.4	546.9
55°	2788.3	2505.1	2251.1	2016.8	1792.1	1567.5	1381.9	1211.0	1005.9	791.1	590.9
52.5°	3086.2	2759.0	2451.4	2187.7	1948.4	1694.5	1469.8	1279.4	1079.2	844.8	629.9
50°	3432.9	3017.8	2676.0	2353.7	2085.1	1821.4	1562.6	1357.5	1152.4	908.3	669.0
47.5°	3789.3	3330.3	2900.6	2549.0	2231.6	1943.5	1670.0	1425.9	1220.8	966.9	708.1
45°	4204.4	3628.2	3154.5	2739.5	2373.2	2070.5	1777.5	1499.1	1279.4	1025.5	747.1
42.5°	4604.8	3979.8	3418.2	2949.4	2534.4	2192.5	1875.1	1577.3	1338.0	1084.1	781.3
40°	5078.5	4331.4	3672.2	3149.7	2695.5	2309.7	1972.8	1660.3	1391.7	1137.8	815.5
37.5°	5532.6	4687.9	3979.8	3369.4	2851.8	2426.9	2070.5	1738.4	1440.5	1191.5	859.4
35°	5981.9	5083.4	4272.8	3574.5	3012.9	2558.8	2168.1	1811.7	1489.4	1235.4	898.5
32.5°	6411.6	5454.5	4570.7	3804.0	3188.7	2680.9	2256.0	1880.0	1538.2	1274.5	937.6
30°	6812.0	5806.1	4863.6	4038.4	3349.9	2793.2	2339.0	1948.4	1596.8	1308.7	976.6
27.5°	7178.3	6147.9	5156.6	4258.1	3501.2	2895.7	2426.9	2011.9	1645.6	1342.9	1010.8
25°	7510.3	6455.6	5425.2	4458.3	3638.0	3008.0	2510.0	2075.4	1689.6	1372.2	1040.1
22.5°	7822.9	6738.8	5669.4	4658.6	3804.0	3120.4	2588.1	2134.0	1733.5	1401.5	1069.4
20°	8096.3	6997.6	5903.8	4858.8	3950.5	3222.9	2656.5	2187.7	1772.6	1421.0	1098.7
17.5°	8316.1	7227.1	6113.7	5034.6	4077.5	3310.8	2715.0	2236.5	1806.8	1445.4	1118.2
15°	8511.4	7422.4	6289.5	5185.9	4189.8	3384.0	2768.8	2275.6	1836.1	1460.1	1142.7
12.5°	8677.4	7588.5	6440.9	5317.8	4287.4	3447.5	2812.7	2304.9	1860.5	1474.7	1157.3
10°	8814.1	7720.3	6567.9	5420.3	4365.6	3496.4	2846.9	2334.2	1880.0	1489.4	1172.0
7.5°	8916.7	7818.0	6660.7	5508.2	4429.0	3530.5	2876.2	2353.7	1899.6	1499.1	1196.4
5°	8994.8	7901.0	6733.9	5566.8	4477.9	3579.4	2910.4	2378.1	1919.1	1508.9	1196.4
2.5°	9053.4	7969.4	6792.5	5615.7	4516.9	3569.6	2910.4	2373.2	1919.1	1508.9	1191.5
0°	9043.7	7974.2	6787.6	5615.7	4516.9	3559.8	2910.4	2368.3	1919.1	1508.9	1191.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	34.2	24.4	9.8	0.0
85°	73.2	48.8	24.4	0.0
82.5°	107.4	68.4	34.2	0.0
80°	141.6	92.8	43.9	0.0
77.5°	180.7	117.2	58.6	0.0
75°	214.9	136.7	68.4	0.0
72.5°	249.0	161.1	78.1	0.0
70°	278.3	180.7	87.9	0.0
67.5°	307.6	205.1	102.5	0.0
65°	332.1	224.6	112.3	0.0
62.5°	351.6	249.0	122.1	0.0
60°	376.0	268.6	131.8	0.0
57.5°	395.5	283.2	141.6	0.0
55°	415.1	293.0	151.4	0.0
52.5°	434.6	307.6	161.1	0.0
50°	454.1	322.3	170.9	0.0
47.5°	473.7	332.1	175.8	0.0
45°	503.0	346.7	185.6	0.0
42.5°	527.4	356.5	195.3	0.0
40°	551.8	366.2	200.2	0.0
37.5°	576.2	376.0	210.0	0.0
35°	600.6	385.8	214.9	0.0
32.5°	620.2	395.5	219.7	0.0
30°	639.7	405.3	224.6	0.0
27.5°	659.2	410.2	229.5	0.0
25°	673.9	420.0	234.4	0.0
22.5°	688.5	424.8	239.3	0.0
20°	698.3	429.7	244.2	0.0
17.5°	712.9	434.6	249.0	0.0
15°	717.8	439.5	258.8	0.0
12.5°	727.6	444.4	258.8	0.0
10°	732.5	449.3	258.8	0.0
7.5°	742.2	449.3	258.8	0.0
5°	737.4	449.3	258.8	0.0
2.5°	737.4	449.3	258.8	0.0
0°	732.5	449.3	258.8	0.0

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