

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: P628306

Luminaire Tested: **IFLD-S-SA6B-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35140.1 lumens	Max Intensity:	11454.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	143.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

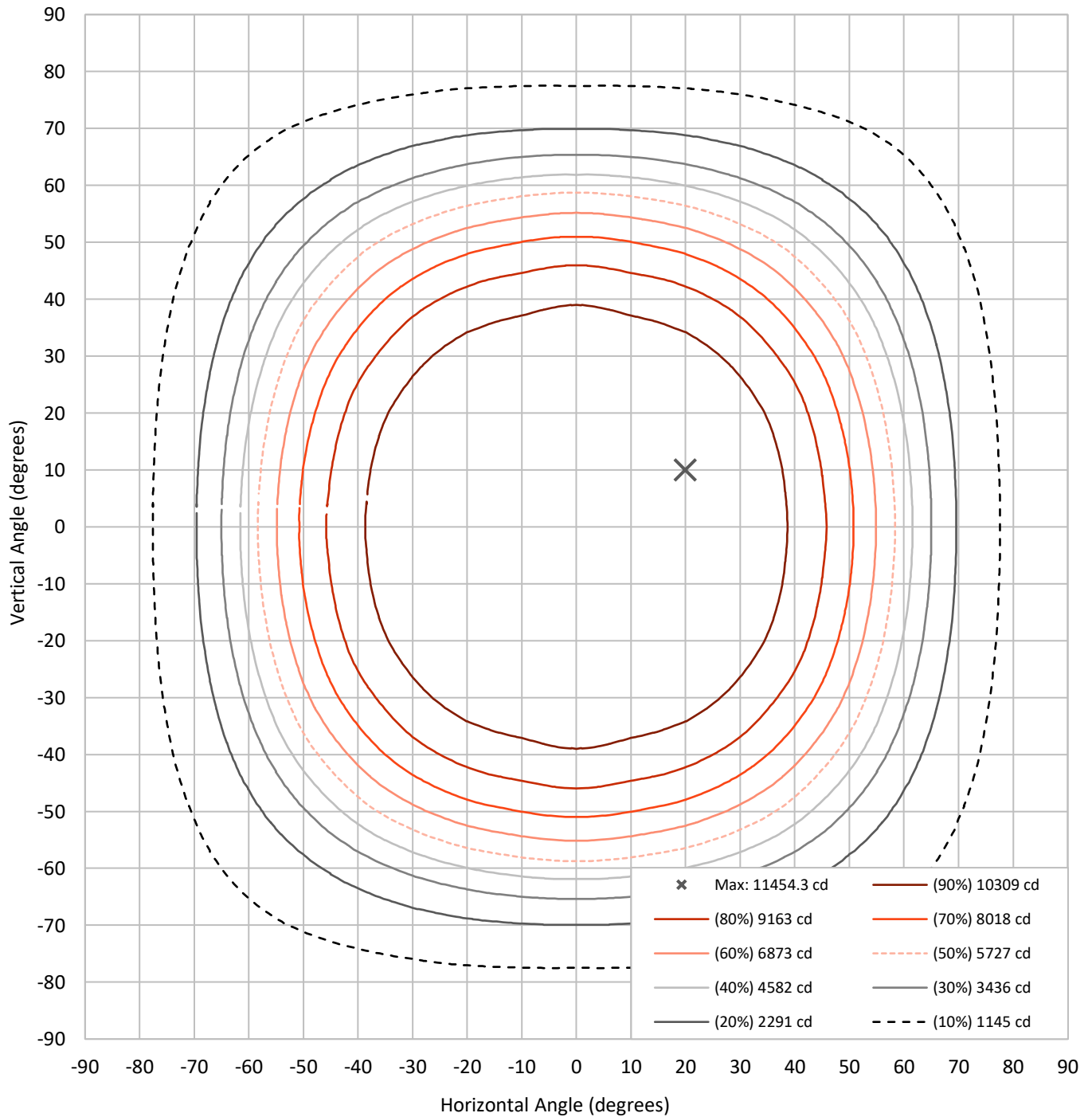
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21562.7 lumens	Field Lumens:	25850 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9
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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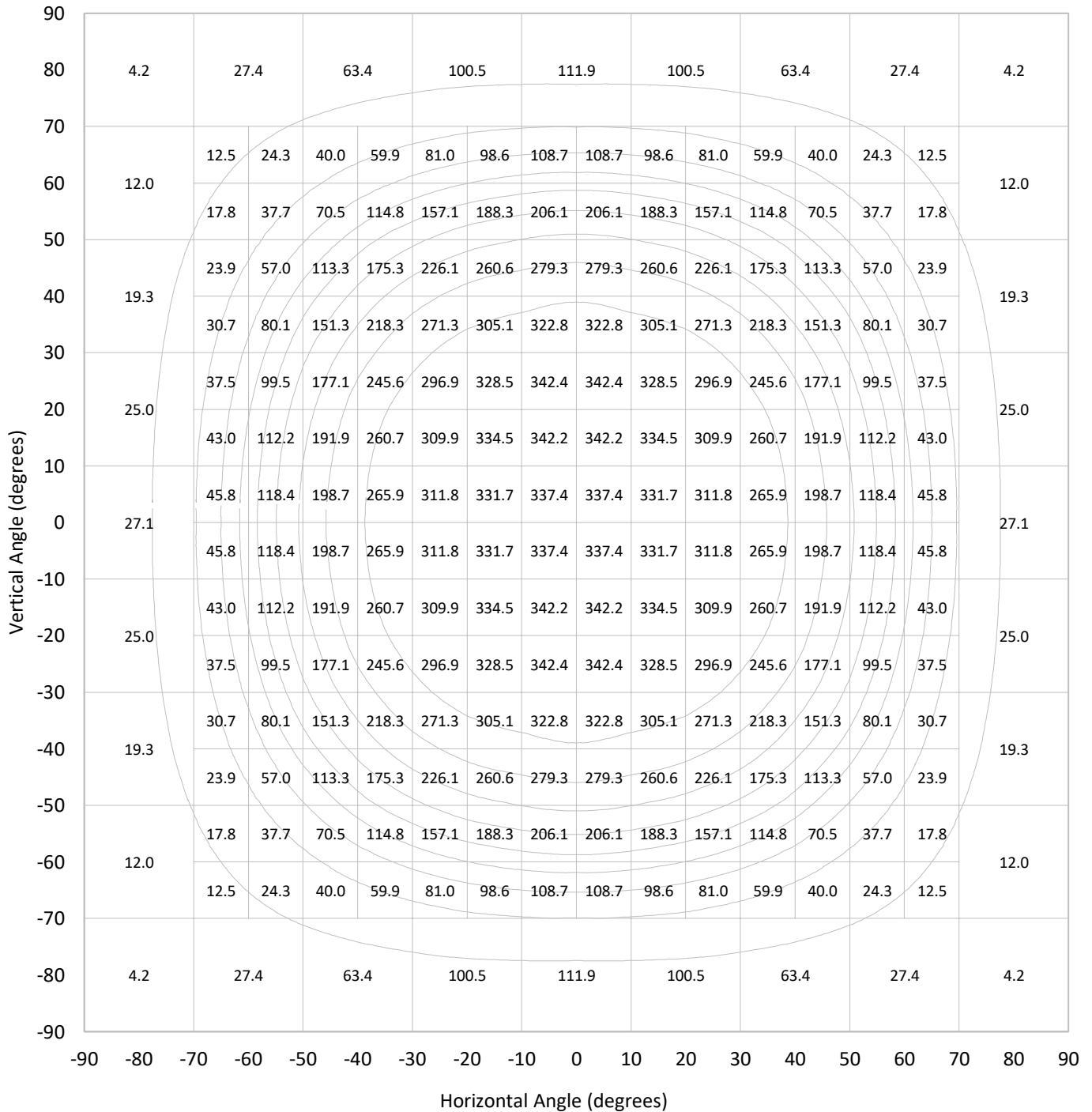
Iso-Candela Plot





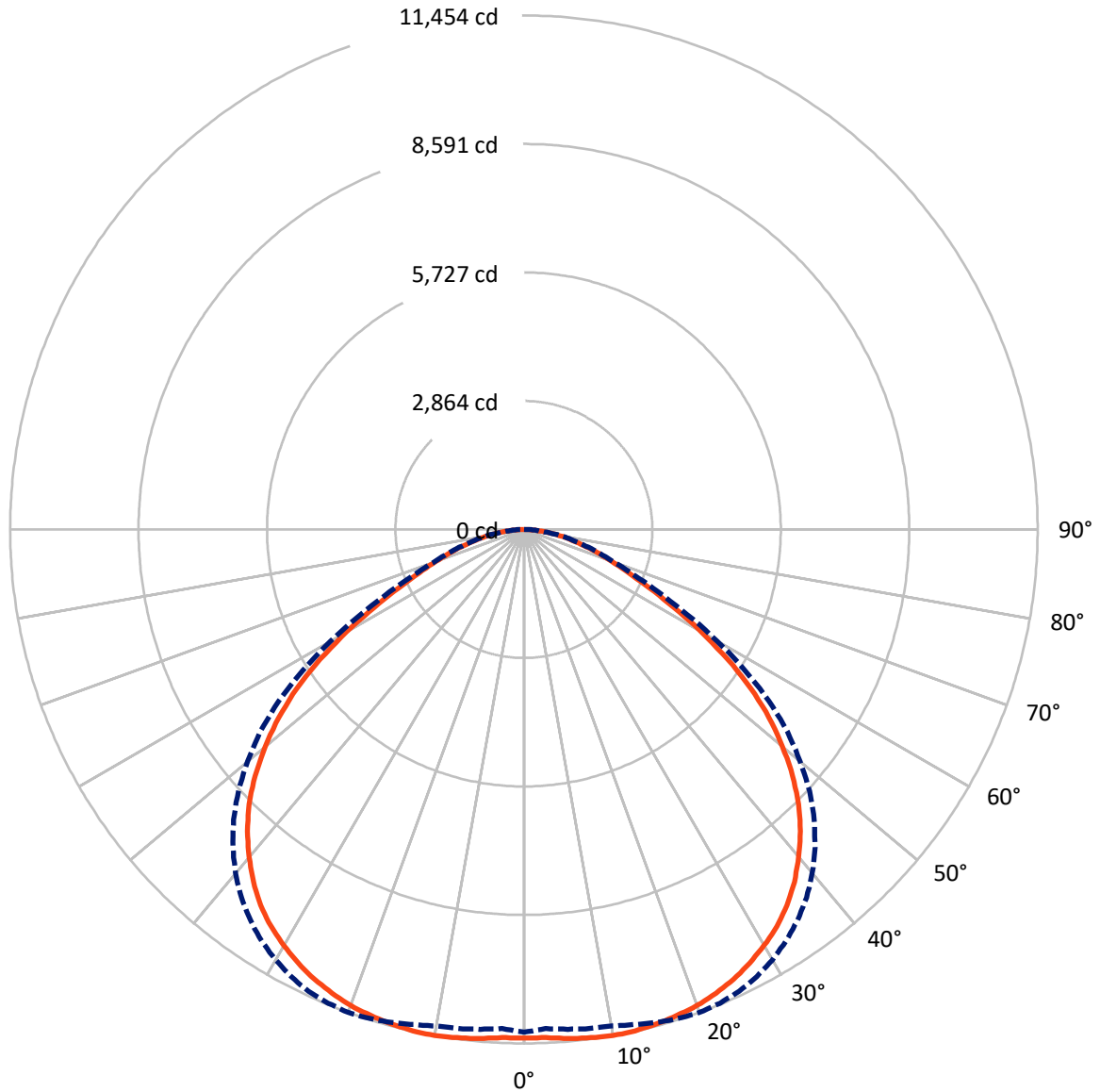
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Lumen Table



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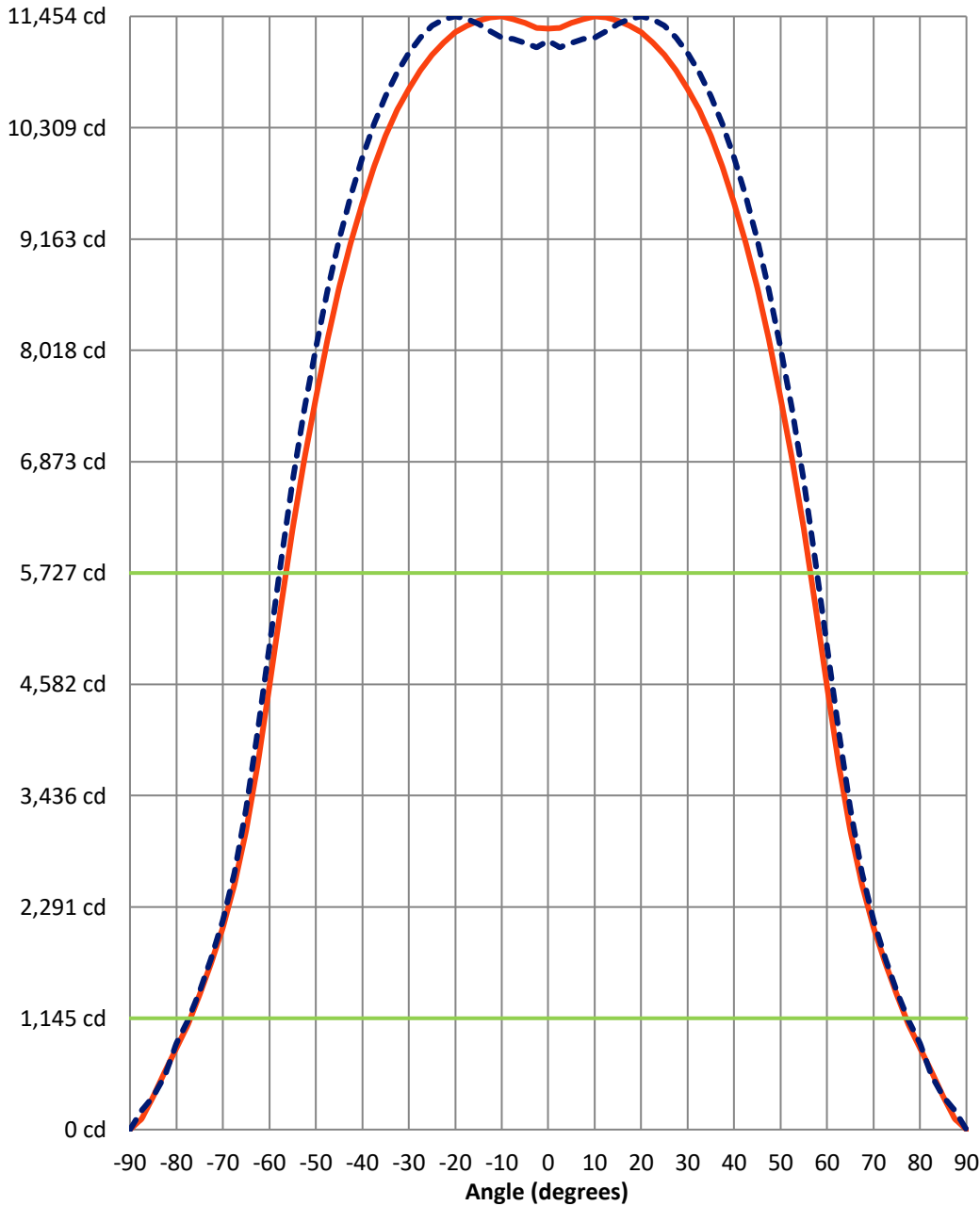
Luminous Intensity Polar Plot



— 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: 21562.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25850
 Efficiency: 73.6%

Spill:
 Lumens: 9290.1
 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°	92.4	99.8	103.5	107.2	110.9	114.6	118.3	114.6	110.9	110.9	107.2
85°	247.7	255.1	258.8	284.7	310.6	325.4	343.8	340.2	340.2	336.5	332.8
82.5°	495.4	517.6	536.1	562.0	576.8	599.0	613.8	602.7	595.3	580.5	569.4
80°	880.0	887.4	891.1	894.7	876.3	872.6	865.2	854.1	839.3	820.8	802.3
77.5°	1120.3	1127.7	1135.1	1127.7	1124.0	1120.3	1109.2	1098.1	1083.3	1068.5	1046.3
75°	1482.6	1482.6	1482.6	1471.5	1464.1	1453.0	1434.6	1416.1	1390.2	1360.6	1327.3
72.5°	1867.1	1863.4	1859.7	1837.6	1819.1	1796.9	1771.0	1748.8	1719.2	1686.0	1641.6
70°	2270.1	2277.5	2281.2	2251.7	2229.5	2199.9	2166.6	2126.0	2081.6	2033.5	1970.7
67.5°	2824.7	2817.3	2810.0	2769.3	2739.7	2699.0	2651.0	2591.8	2525.3	2451.3	2362.6
65°	3512.4	3523.5	3501.3	3460.7	3405.2	3338.7	3264.7	3179.7	3079.9	2968.9	2843.2
62.5°	4344.3	4362.8	4336.9	4285.2	4214.9	4126.2	4022.7	3900.7	3763.9	3608.6	3453.3
60°	5290.8	5287.1	5239.1	5168.8	5076.4	4965.5	4850.9	4717.8	4562.5	4381.3	4192.7
57.5°	6159.7	6152.3	6093.2	6022.9	5930.5	5812.2	5690.2	5549.7	5387.0	5194.7	4976.6
55°	6939.8	6932.4	6873.3	6799.3	6703.2	6584.9	6474.0	6340.9	6181.9	5978.5	5745.6
52.5°	7631.2	7634.9	7583.2	7501.8	7398.3	7283.7	7176.5	7043.4	6891.8	6688.4	6462.9
50°	8267.2	8263.5	8208.0	8134.1	8037.9	7927.0	7819.8	7686.7	7527.7	7331.8	7113.6
47.5°	8858.7	8851.4	8788.5	8707.2	8607.3	8511.2	8411.4	8293.1	8126.7	7930.7	7712.6
45°	9354.2	9339.4	9276.5	9198.9	9102.8	9017.7	8929.0	8840.3	8662.8	8481.6	8274.6
42.5°	9779.4	9775.7	9712.8	9635.2	9539.0	9465.1	9383.8	9272.8	9125.0	8958.6	8755.2
40°	10186.1	10156.5	10093.6	10019.7	9931.0	9868.1	9786.8	9675.8	9531.7	9369.0	9173.0
37.5°	10489.3	10493.0	10426.4	10345.1	10267.4	10208.3	10134.3	10030.8	9905.1	9746.1	9550.1
35°	10777.6	10759.2	10703.7	10633.5	10563.2	10496.7	10419.0	10330.3	10226.7	10078.9	9894.0
32.5°	10966.2	10992.1	10925.5	10851.6	10810.9	10759.2	10677.8	10585.4	10493.0	10345.1	10178.7
30°	11173.3	11151.1	11099.3	11036.5	11006.9	10973.6	10903.4	10814.6	10707.4	10574.3	10419.0
27.5°	11317.5	11306.4	11243.5	11184.4	11169.6	11140.0	11084.5	11006.9	10899.7	10770.3	10626.1
25°	11380.3	11387.7	11328.5	11295.3	11295.3	11276.8	11232.4	11165.9	11058.6	10940.3	10799.8
22.5°	11409.9	11402.5	11361.8	11354.4	11372.9	11358.1	11339.6	11280.5	11184.4	11088.2	10969.9
20°	11428.4	11376.6	11339.6	11369.2	11391.4	11387.7	11372.9	11335.9	11291.6	11210.2	11106.7
17.5°	11387.7	11354.4	11310.1	11354.4	11402.5	11406.2	11391.4	11369.2	11358.1	11306.4	11213.9
15°	11287.9	11262.0	11269.4	11313.8	11369.2	11387.7	11398.8	11424.7	11409.9	11369.2	11287.9
12.5°	11221.3	11188.0	11221.3	11265.7	11295.3	11306.4	11395.1	11443.2	11443.2	11406.2	11354.4
10°	11202.8	11136.3	11180.7	11221.3	11236.1	11302.7	11376.6	11428.4	11454.3	11424.7	11358.1
7.5°	11165.9	11121.5	11140.0	11158.5	11243.5	11291.6	11332.2	11387.7	11424.7	11421.0	11361.8
5°	11147.4	11091.9	11099.3	11177.0	11236.1	11269.4	11284.2	11332.2	11387.7	11398.8	11354.4
2.5°	11099.3	11073.4	11128.9	11136.3	11180.7	11206.5	11221.3	11265.7	11335.9	11361.8	11343.3
0°	11073.4	11036.5	10999.5	11029.1	11103.0	11158.5	11180.7	11247.2	11328.5	11354.4	11313.8



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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°	103.5	99.8	96.1	92.4	96.1	96.1	96.1	92.4	96.1	92.4	92.4
85°	321.7	306.9	295.8	281.0	266.2	255.1	240.3	225.5	221.8	218.1	210.7
82.5°	554.6	536.1	517.6	495.4	473.3	447.4	421.5	391.9	384.5	377.1	366.0
80°	780.1	754.3	728.4	702.5	680.3	654.4	624.8	591.6	569.4	550.9	528.7
77.5°	1016.8	979.8	942.8	898.4	872.6	846.7	817.1	783.8	750.6	721.0	687.7
75°	1286.7	1246.0	1209.0	1164.7	1116.6	1068.5	1020.5	976.1	928.0	883.7	839.3
72.5°	1586.1	1527.0	1467.8	1412.4	1353.2	1294.1	1231.2	1172.0	1112.9	1053.7	990.9
70°	1900.4	1826.5	1752.5	1678.6	1600.9	1523.3	1449.3	1375.4	1301.5	1223.8	1153.6
67.5°	2270.1	2185.1	2089.0	1985.5	1870.8	1771.0	1674.9	1586.1	1497.4	1408.7	1319.9
65°	2732.3	2614.0	2484.6	2344.1	2211.0	2077.9	1937.4	1804.3	1700.8	1597.2	1497.4
62.5°	3301.7	3135.3	2954.1	2773.0	2610.3	2436.5	2273.8	2100.1	1937.4	1789.5	1667.5
60°	3982.0	3756.5	3534.6	3301.7	3076.2	2839.5	2632.5	2418.0	2214.7	2033.5	1856.0
57.5°	4732.6	4470.0	4203.8	3919.1	3612.3	3335.0	3054.0	2773.0	2532.7	2292.3	2092.7
55°	5494.2	5216.9	4917.4	4595.8	4259.3	3904.4	3523.5	3209.3	2880.2	2599.2	2340.4
52.5°	6218.9	5930.5	5619.9	5324.1	4921.1	4514.4	4096.6	3682.5	3298.0	2939.4	2625.1
50°	6865.9	6584.9	6285.4	5941.6	5568.1	5135.6	4669.7	4203.8	3749.1	3327.6	2935.7
47.5°	7457.5	7183.9	6884.4	6540.5	6200.4	5719.7	5250.2	4736.2	4229.7	3745.4	3286.9
45°	8012.1	7734.8	7424.2	7095.1	6703.2	6274.3	5790.0	5272.4	4728.9	4185.4	3656.6
42.5°	8514.9	8237.6	7923.3	7583.2	7195.0	6769.8	6300.2	5778.9	5231.7	4640.1	4059.6
40°	8954.9	8685.0	8381.8	8026.9	7664.5	7217.1	6755.0	6259.5	5693.9	5098.6	4459.0
37.5°	9339.4	9088.0	8788.5	8437.3	8052.7	7653.4	7176.5	6681.0	6170.8	5523.8	4869.4
35°	9679.5	9446.6	9139.7	8807.0	8429.9	8008.4	7561.0	7076.6	6525.7	5919.4	5283.5
32.5°	9975.3	9738.7	9457.7	9125.0	8758.9	8363.3	7904.8	7416.8	6895.5	6278.0	5586.6
30°	10226.7	9997.5	9731.3	9417.0	9065.8	8673.9	8226.5	7734.8	7202.4	6588.6	5904.6
27.5°	10444.9	10226.7	9967.9	9675.8	9339.4	8962.3	8511.2	8015.8	7472.3	6880.7	6196.7
25°	10633.5	10422.7	10182.4	9905.1	9572.3	9202.6	8777.4	8259.8	7716.3	7121.0	6444.4
22.5°	10803.5	10600.2	10359.9	10089.9	9786.8	9417.0	8988.2	8474.2	7923.3	7335.5	6669.9
20°	10955.1	10766.6	10529.9	10252.6	9949.4	9576.0	9150.8	8662.8	8108.2	7531.4	6873.3
17.5°	11077.1	10910.7	10674.1	10382.0	10078.9	9716.5	9302.4	8855.0	8267.2	7697.8	7043.4
15°	11162.2	10999.5	10785.0	10489.3	10193.5	9834.8	9420.7	8958.6	8411.4	7830.9	7183.9
12.5°	11221.3	11047.5	10847.9	10574.3	10278.5	9923.6	9520.6	9065.8	8533.4	7949.2	7305.9
10°	11236.1	11077.1	10877.5	10633.5	10345.1	10001.2	9605.6	9154.5	8633.2	8041.6	7405.7
7.5°	11243.5	11091.9	10910.7	10677.8	10393.1	10060.4	9668.5	9224.8	8707.2	8119.3	7479.6
5°	11239.8	11095.6	10932.9	10707.4	10422.7	10093.6	9709.1	9272.8	8758.9	8171.0	7535.1
2.5°	11228.7	11099.3	10947.7	10729.6	10456.0	10130.6	9749.8	9328.3	8814.4	8215.4	7579.5
0°	11258.3	11147.4	10955.1	10722.2	10463.4	10130.6	9746.1	9335.7	8821.8	8211.7	7575.8



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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°	92.4	88.7	88.7	85.0	81.3	77.6	70.2	66.6	59.2	48.1	37.0
85°	199.7	188.6	177.5	170.1	162.7	155.3	144.2	133.1	118.3	96.1	73.9
82.5°	351.2	329.1	306.9	281.0	258.8	236.6	218.1	199.7	177.5	144.2	110.9
80°	502.8	469.6	436.3	399.3	366.0	329.1	295.8	266.2	236.6	192.3	147.9
77.5°	654.4	610.1	562.0	517.6	469.6	421.5	373.4	332.8	288.4	236.6	184.9
75°	794.9	743.2	698.8	635.9	576.8	513.9	451.1	395.6	340.2	277.3	221.8
72.5°	935.4	868.9	806.0	746.9	680.3	602.7	532.4	462.2	391.9	318.0	251.4
70°	1075.9	994.6	916.9	846.7	772.7	695.1	610.1	528.7	443.7	354.9	277.3
67.5°	1220.1	1127.7	1038.9	950.2	865.2	776.4	687.7	595.3	495.4	391.9	306.9
65°	1379.1	1264.5	1157.3	1057.4	957.6	861.5	761.6	661.8	550.9	432.6	332.8
62.5°	1538.1	1412.4	1286.7	1161.0	1050.0	942.8	835.6	724.7	602.7	477.0	358.6
60°	1708.2	1564.0	1419.8	1279.3	1142.5	1024.2	905.8	787.5	658.1	517.6	384.5
57.5°	1896.7	1722.9	1560.3	1401.3	1246.0	1105.5	976.1	850.4	706.2	558.3	414.1
55°	2111.2	1896.7	1704.5	1527.0	1356.9	1186.8	1046.3	916.9	761.6	599.0	447.4
52.5°	2336.7	2089.0	1856.0	1656.4	1475.2	1283.0	1112.9	968.7	817.1	639.6	477.0
50°	2599.2	2284.9	2026.1	1782.1	1578.7	1379.1	1183.1	1027.9	872.6	687.7	506.5
47.5°	2869.1	2521.6	2196.2	1930.0	1689.7	1471.5	1264.5	1079.6	924.3	732.1	536.1
45°	3183.4	2747.1	2388.5	2074.2	1796.9	1567.7	1345.8	1135.1	968.7	776.4	565.7
42.5°	3486.6	3013.3	2588.1	2233.2	1918.9	1660.1	1419.8	1194.2	1013.1	820.8	591.6
40°	3845.2	3279.5	2780.4	2384.8	2040.9	1748.8	1493.7	1257.1	1053.7	861.5	617.5
37.5°	4189.0	3549.4	3013.3	2551.1	2159.2	1837.6	1567.7	1316.2	1090.7	902.1	650.7
35°	4529.2	3848.9	3235.1	2706.4	2281.2	1937.4	1641.6	1371.7	1127.7	935.4	680.3
32.5°	4854.6	4129.9	3460.7	2880.2	2414.3	2029.8	1708.2	1423.5	1164.7	965.0	709.9
30°	5157.7	4396.1	3682.5	3057.7	2536.4	2114.9	1771.0	1475.2	1209.0	990.9	739.5
27.5°	5435.0	4654.9	3904.4	3224.1	2651.0	2192.5	1837.6	1523.3	1246.0	1016.8	765.3
25°	5686.5	4887.8	4107.7	3375.6	2754.5	2277.5	1900.4	1571.4	1279.3	1038.9	787.5
22.5°	5923.1	5102.3	4292.6	3527.2	2880.2	2362.6	1959.6	1615.7	1312.5	1061.1	809.7
20°	6130.1	5298.2	4470.0	3678.8	2991.1	2440.2	2011.3	1656.4	1342.1	1075.9	831.9
17.5°	6296.5	5472.0	4629.0	3811.9	3087.3	2506.8	2055.7	1693.4	1368.0	1094.4	846.7
15°	6444.4	5619.9	4762.1	3926.5	3172.3	2562.2	2096.4	1722.9	1390.2	1105.5	865.2
12.5°	6570.1	5745.6	4876.7	4026.4	3246.2	2610.3	2129.6	1745.1	1408.7	1116.6	876.3
10°	6673.6	5845.4	4972.9	4104.0	3305.4	2647.3	2155.5	1767.3	1423.5	1127.7	887.4
7.5°	6751.3	5919.4	5043.1	4170.6	3353.5	2673.2	2177.7	1782.1	1438.3	1135.1	905.8
5°	6810.4	5982.2	5098.6	4214.9	3390.4	2710.1	2203.6	1800.6	1453.0	1142.5	905.8
2.5°	6854.8	6034.0	5143.0	4251.9	3420.0	2702.7	2203.6	1796.9	1453.0	1142.5	902.1
0°	6847.4	6037.7	5139.3	4251.9	3420.0	2695.3	2203.6	1793.2	1453.0	1142.5	902.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.9	18.5	7.4	0.0
85°	55.5	37.0	18.5	0.0
82.5°	81.3	51.8	25.9	0.0
80°	107.2	70.2	33.3	0.0
77.5°	136.8	88.7	44.4	0.0
75°	162.7	103.5	51.8	0.0
72.5°	188.6	122.0	59.2	0.0
70°	210.7	136.8	66.6	0.0
67.5°	232.9	155.3	77.6	0.0
65°	251.4	170.1	85.0	0.0
62.5°	266.2	188.6	92.4	0.0
60°	284.7	203.4	99.8	0.0
57.5°	299.5	214.4	107.2	0.0
55°	314.3	221.8	114.6	0.0
52.5°	329.1	232.9	122.0	0.0
50°	343.8	244.0	129.4	0.0
47.5°	358.6	251.4	133.1	0.0
45°	380.8	262.5	140.5	0.0
42.5°	399.3	269.9	147.9	0.0
40°	417.8	277.3	151.6	0.0
37.5°	436.3	284.7	159.0	0.0
35°	454.8	292.1	162.7	0.0
32.5°	469.6	299.5	166.4	0.0
30°	484.3	306.9	170.1	0.0
27.5°	499.1	310.6	173.8	0.0
25°	510.2	318.0	177.5	0.0
22.5°	521.3	321.7	181.2	0.0
20°	528.7	325.4	184.9	0.0
17.5°	539.8	329.1	188.6	0.0
15°	543.5	332.8	196.0	0.0
12.5°	550.9	336.5	196.0	0.0
10°	554.6	340.2	196.0	0.0
7.5°	562.0	340.2	196.0	0.0
5°	558.3	340.2	196.0	0.0
2.5°	558.3	340.2	196.0	0.0
0°	554.6	340.2	196.0	0.0

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