

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: P624000

Luminaire Tested: **IFLD-M-SA4A-760-U-77**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624000  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-760-U-77  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

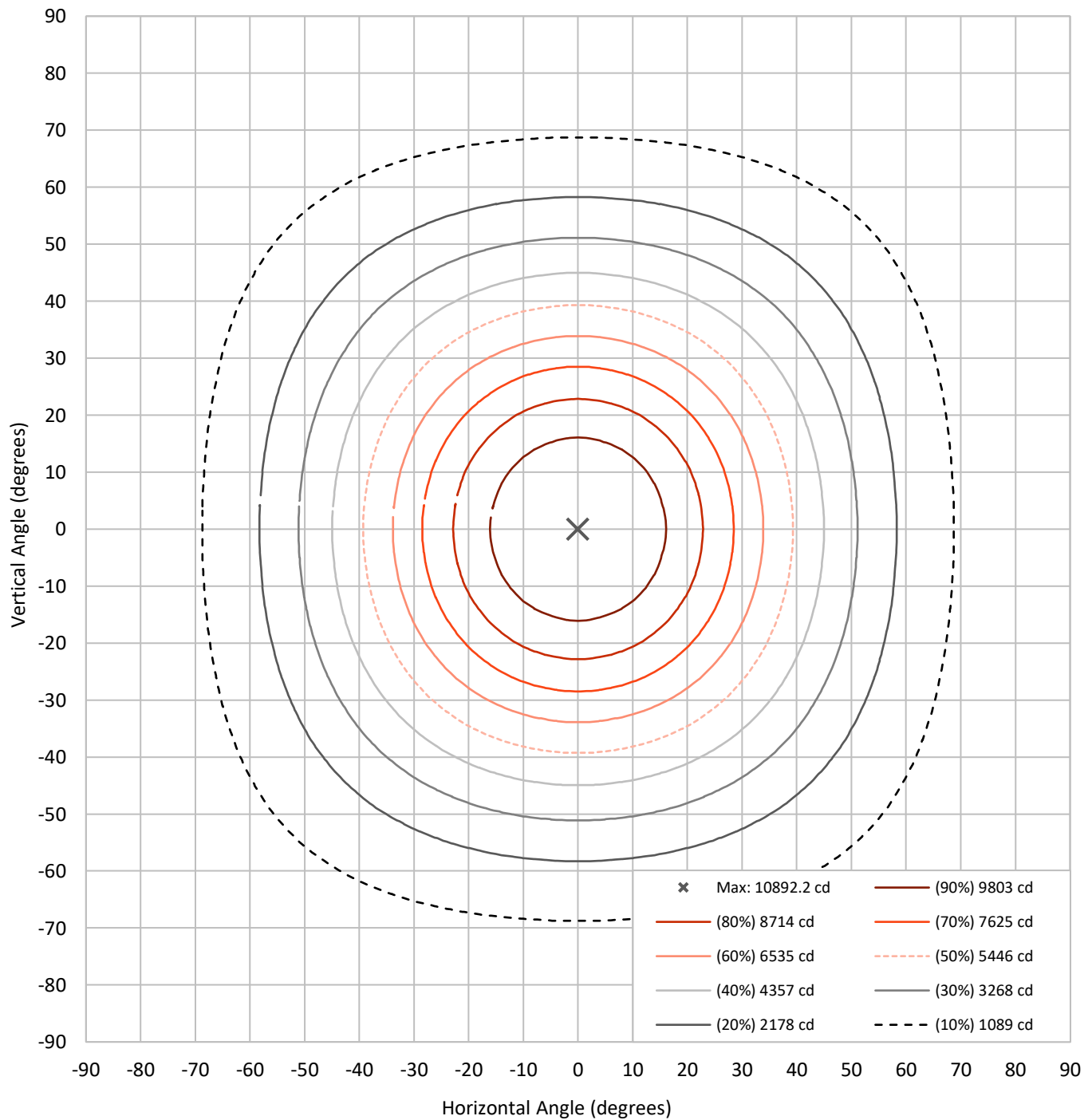
**Summary**

|                                   |                                      |                      |                   |
|-----------------------------------|--------------------------------------|----------------------|-------------------|
| Lumens per Lamp:                  | N/A                                  | NEMA Type:           | 7H x 7V           |
| Luminaire Lumens:                 | 19611.7 lumens                       | Max Intensity:       | 10892.2 candela   |
| Efficiency:                       | N/A                                  | Max Intensity Angle: | 0°H x 0°V         |
| Efficacy:                         | 152.5 lumens/watt                    |                      |                   |
| Luminous Opening:                 | Rectangular (W 2' x L: 0.5' x H: 0') |                      |                   |
| Beam Angle (50%):                 | 78.6°H x 78.6°V                      | Field Angle (10%):   | 137.5°H x 137.5°V |
| Beam Lumens:                      | 8485.8 lumens                        | Field Lumens:        | 13895.2 lumens    |
| Beam Efficiency:                  | 43.3%                                | Field Efficiency:    | 70.9%             |
| Input Watts (W):                  | 128.6                                |                      |                   |
| 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                                |                      |                   |



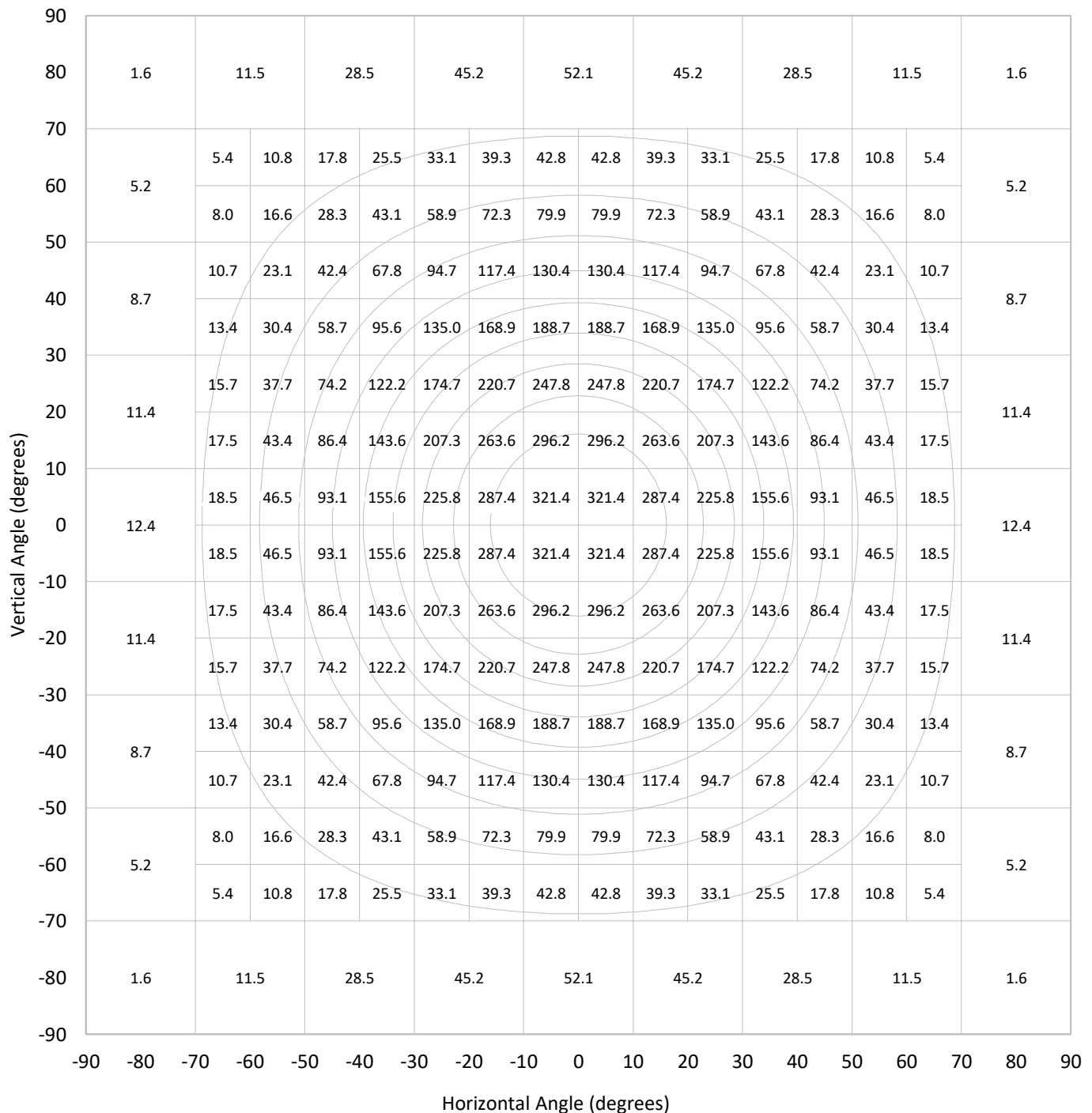
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## Iso-Candela Plot



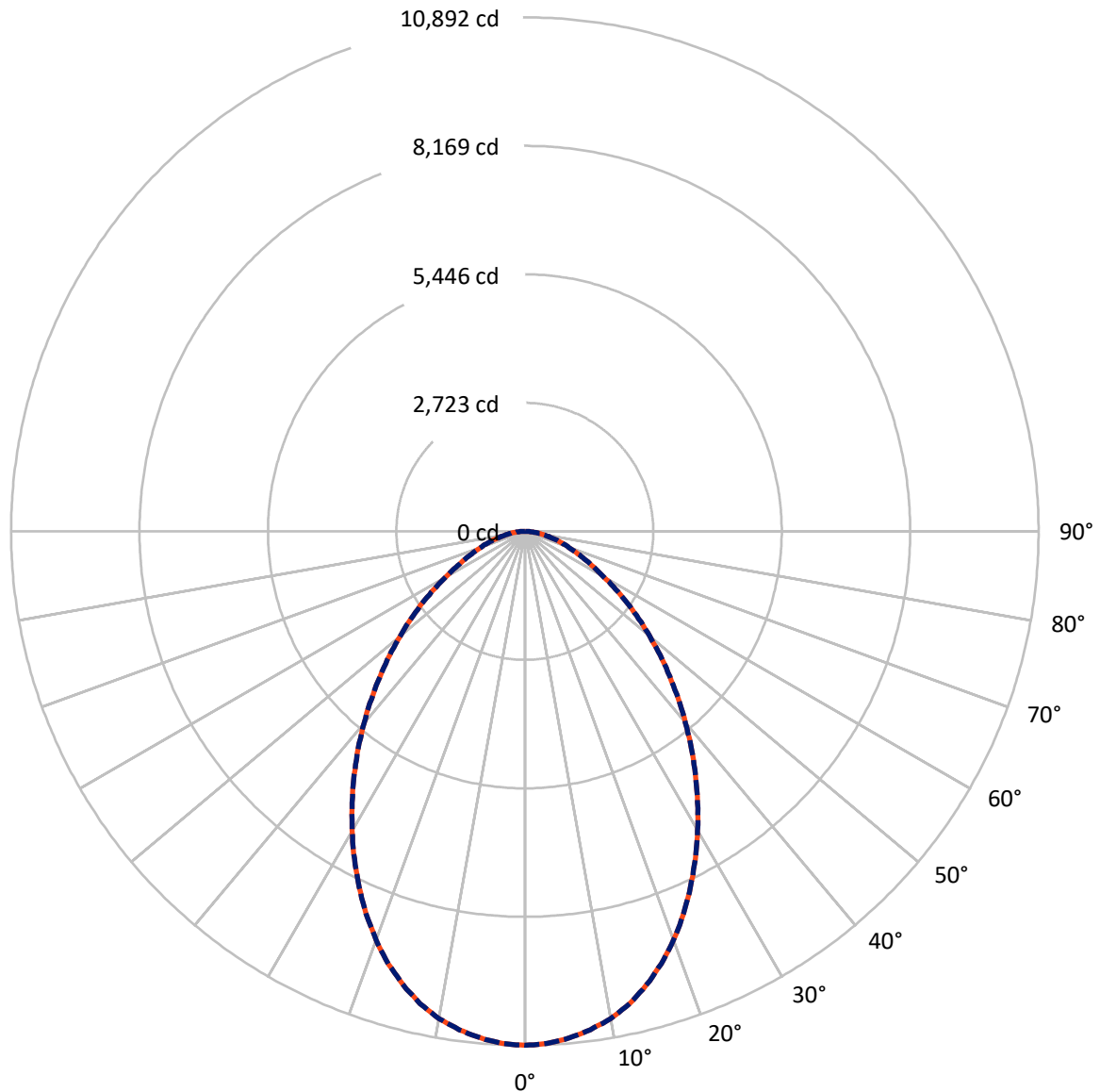
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## Lumen Table



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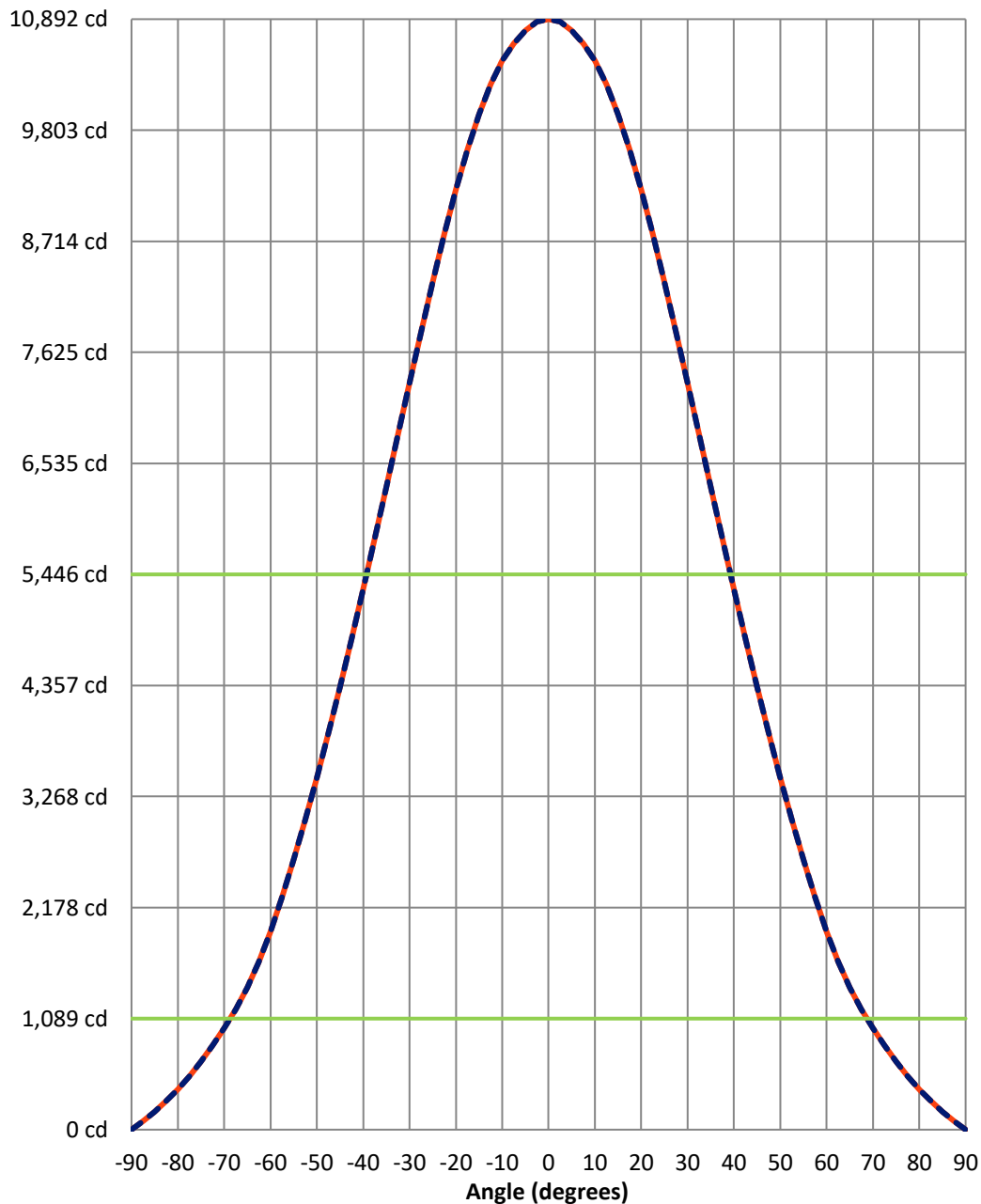
## Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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## Luminous Intensity Plot



**Beam:**

H Angle: 78.6°  
V Angle: 78.6°  
Lumens: 8485.8  
Efficiency: 43.3%

**Field:**

H Angle: 137.5°  
V Angle: 137.5°  
Lumens: 13895.2  
Efficiency: 70.9%

**Spill:**

Lumens: 5716.5  
Efficiency: 29.1%

— Vertical Distribution through 0-Deg  
- - - Horizontal Distribution through 0-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° | 83.8    | 83.8    | 83.8    | 83.8    | 83.8    | 83.8    | 83.8   | 79.7   | 79.7   | 77.7   | 75.7   |
| 85°   | 175.8   | 175.8   | 175.8   | 175.8   | 175.8   | 171.8   | 169.7  | 167.7  | 165.6  | 161.5  | 159.5  |
| 82.5° | 282.2   | 282.2   | 282.2   | 282.2   | 278.1   | 274.0   | 271.9  | 267.9  | 263.8  | 257.6  | 251.5  |
| 80°   | 394.6   | 394.6   | 394.6   | 394.6   | 388.5   | 384.4   | 378.3  | 374.2  | 368.0  | 359.9  | 351.7  |
| 77.5° | 523.4   | 523.4   | 523.4   | 517.3   | 513.2   | 507.1   | 501.0  | 492.8  | 484.6  | 474.4  | 462.1  |
| 75°   | 668.6   | 668.6   | 668.6   | 660.4   | 654.3   | 648.2   | 638.0  | 627.7  | 615.5  | 601.1  | 584.8  |
| 72.5° | 826.1   | 826.1   | 826.1   | 815.8   | 809.7   | 799.5   | 787.2  | 772.9  | 758.6  | 740.2  | 719.7  |
| 70°   | 995.8   | 995.8   | 995.8   | 983.5   | 973.3   | 963.1   | 946.7  | 930.3  | 909.9  | 889.5  | 864.9  |
| 67.5° | 1179.8  | 1179.8  | 1179.8  | 1165.5  | 1153.2  | 1138.9  | 1120.5 | 1100.1 | 1075.5 | 1046.9 | 1018.3 |
| 65°   | 1394.5  | 1394.5  | 1386.3  | 1374.1  | 1359.7  | 1339.3  | 1316.8 | 1288.2 | 1257.5 | 1220.7 | 1181.8 |
| 62.5° | 1648.0  | 1648.0  | 1635.8  | 1621.5  | 1603.1  | 1576.5  | 1545.8 | 1509.0 | 1466.1 | 1419.0 | 1372.0 |
| 60°   | 1942.5  | 1942.5  | 1928.2  | 1909.8  | 1883.2  | 1850.5  | 1809.6 | 1762.5 | 1709.4 | 1650.1 | 1592.8 |
| 57.5° | 2281.9  | 2281.9  | 2263.5  | 2239.0  | 2206.3  | 2165.4  | 2114.2 | 2054.9 | 1987.5 | 1913.9 | 1842.3 |
| 55°   | 2650.0  | 2650.0  | 2627.5  | 2598.8  | 2560.0  | 2510.9  | 2449.6 | 2380.1 | 2298.3 | 2214.4 | 2122.4 |
| 52.5° | 3040.5  | 3040.5  | 3013.9  | 2981.2  | 2936.2  | 2879.0  | 2809.4 | 2727.7 | 2633.6 | 2535.5 | 2427.1 |
| 50°   | 3451.5  | 3451.5  | 3420.8  | 3384.0  | 3332.9  | 3265.4  | 3185.7 | 3091.6 | 2987.3 | 2872.8 | 2748.1 |
| 47.5° | 3891.1  | 3891.1  | 3856.3  | 3813.4  | 3752.1  | 3674.4  | 3580.3 | 3471.9 | 3353.3 | 3224.5 | 3083.4 |
| 45°   | 4343.0  | 4343.0  | 4304.1  | 4255.1  | 4187.6  | 4099.7  | 3995.4 | 3891.1 | 3739.8 | 3590.5 | 3427.0 |
| 42.5° | 4813.3  | 4813.3  | 4768.3  | 4713.1  | 4635.4  | 4539.3  | 4420.7 | 4285.7 | 4136.5 | 3968.8 | 3790.9 |
| 40°   | 5302.0  | 5302.0  | 5250.8  | 5187.5  | 5101.6  | 4991.2  | 4858.3 | 4706.9 | 4539.3 | 4353.2 | 4156.9 |
| 37.5° | 5800.9  | 5800.9  | 5743.6  | 5674.1  | 5578.0  | 5455.3  | 5306.0 | 5138.4 | 4950.3 | 4743.8 | 4527.0 |
| 35°   | 6303.9  | 6303.9  | 6240.5  | 6164.8  | 6058.5  | 5923.6  | 5762.0 | 5576.0 | 5367.4 | 5142.5 | 4899.1 |
| 32.5° | 6817.1  | 6817.1  | 6747.6  | 6661.7  | 6541.1  | 6391.8  | 6213.9 | 6011.5 | 5800.9 | 5539.1 | 5273.3 |
| 30°   | 7324.2  | 7324.2  | 7248.5  | 7154.5  | 7025.7  | 6862.1  | 6667.8 | 6445.0 | 6197.5 | 5929.7 | 5643.4 |
| 27.5° | 7823.1  | 7802.7  | 7739.3  | 7639.1  | 7498.0  | 7324.2  | 7113.6 | 6872.3 | 6604.4 | 6310.0 | 6003.3 |
| 25°   | 8313.8  | 8291.3  | 8221.8  | 8111.4  | 7960.1  | 7769.9  | 7543.0 | 7285.3 | 6997.0 | 6686.2 | 6350.9 |
| 22.5° | 8784.1  | 8759.6  | 8686.0  | 8567.4  | 8405.8  | 8199.3  | 7956.0 | 7680.0 | 7373.3 | 7040.0 | 6686.2 |
| 20°   | 9219.6  | 9193.1  | 9117.4  | 8992.7  | 8825.0  | 8606.2  | 8348.6 | 8052.1 | 7725.0 | 7373.3 | 6997.0 |
| 17.5° | 9612.2  | 9585.6  | 9505.9  | 9377.1  | 9219.6  | 8976.3  | 8710.5 | 8397.7 | 8052.1 | 7680.0 | 7285.3 |
| 15°   | 9957.8  | 9929.2  | 9847.4  | 9718.6  | 9538.6  | 9309.6  | 9029.5 | 8710.5 | 8348.6 | 7956.0 | 7543.0 |
| 12.5° | 10252.2 | 10223.6 | 10139.8 | 10010.9 | 9824.9  | 9595.9  | 9309.6 | 8976.3 | 8606.2 | 8199.3 | 7769.9 |
| 10°   | 10485.3 | 10456.7 | 10377.0 | 10254.3 | 10062.1 | 9824.9  | 9538.6 | 9219.6 | 8825.0 | 8405.8 | 7960.1 |
| 7.5°  | 10653.0 | 10626.4 | 10552.8 | 10430.1 | 10254.3 | 10010.9 | 9718.6 | 9377.1 | 8992.7 | 8567.4 | 8111.4 |
| 5°    | 10779.8 | 10749.1 | 10675.5 | 10552.8 | 10377.0 | 10139.8 | 9847.4 | 9505.9 | 9117.4 | 8686.0 | 8221.8 |
| 2.5°  | 10867.7 | 10830.9 | 10749.1 | 10626.4 | 10456.7 | 10223.6 | 9929.2 | 9585.6 | 9193.1 | 8759.6 | 8291.3 |
| 0°    | 10892.2 | 10867.7 | 10779.8 | 10653.0 | 10485.3 | 10252.2 | 9957.8 | 9612.2 | 9219.6 | 8784.1 | 8313.8 |

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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° | 73.6   | 73.6   | 71.6   | 69.5   | 67.5   | 63.4   | 61.3   | 59.3   | 57.3   | 53.2   | 51.1   |
| 85°   | 155.4  | 151.3  | 147.2  | 143.1  | 137.0  | 132.9  | 126.8  | 122.7  | 116.5  | 110.4  | 104.3  |
| 82.5° | 245.4  | 239.2  | 231.1  | 224.9  | 216.7  | 206.5  | 198.3  | 188.1  | 177.9  | 169.7  | 159.5  |
| 80°   | 343.5  | 333.3  | 323.1  | 312.8  | 300.6  | 288.3  | 276.0  | 263.8  | 249.5  | 235.1  | 220.8  |
| 77.5° | 449.8  | 435.5  | 421.2  | 404.9  | 390.5  | 374.2  | 357.8  | 341.5  | 323.1  | 304.7  | 286.3  |
| 75°   | 568.4  | 550.0  | 529.6  | 509.1  | 490.7  | 468.2  | 445.7  | 423.3  | 398.7  | 376.2  | 351.7  |
| 72.5° | 697.2  | 674.8  | 650.2  | 625.7  | 599.1  | 570.5  | 541.9  | 511.2  | 482.6  | 453.9  | 423.3  |
| 70°   | 836.3  | 809.7  | 779.0  | 748.4  | 715.7  | 680.9  | 646.1  | 609.3  | 572.5  | 535.7  | 498.9  |
| 67.5° | 985.6  | 952.8  | 916.0  | 879.2  | 838.3  | 797.4  | 756.5  | 713.6  | 668.6  | 623.6  | 580.7  |
| 65°   | 1145.0 | 1104.1 | 1061.2 | 1014.2 | 967.2  | 920.1  | 871.1  | 819.9  | 768.8  | 715.7  | 668.6  |
| 62.5° | 1322.9 | 1271.8 | 1216.6 | 1159.4 | 1106.2 | 1048.9 | 995.8  | 932.4  | 871.1  | 811.8  | 752.5  |
| 60°   | 1529.5 | 1462.0 | 1394.5 | 1322.9 | 1255.5 | 1181.8 | 1116.4 | 1046.9 | 977.4  | 909.9  | 840.4  |
| 57.5° | 1760.5 | 1674.6 | 1592.8 | 1507.0 | 1417.0 | 1335.2 | 1251.4 | 1167.5 | 1089.8 | 1010.1 | 934.4  |
| 55°   | 2022.2 | 1917.9 | 1815.7 | 1709.4 | 1605.1 | 1502.9 | 1396.5 | 1302.5 | 1206.4 | 1116.4 | 1028.5 |
| 52.5° | 2308.5 | 2189.9 | 2063.1 | 1942.5 | 1809.6 | 1682.8 | 1564.2 | 1445.6 | 1333.2 | 1224.8 | 1124.6 |
| 50°   | 2615.2 | 2476.2 | 2331.0 | 2183.8 | 2032.5 | 1883.2 | 1740.1 | 1601.0 | 1470.2 | 1343.4 | 1224.8 |
| 47.5° | 2934.2 | 2776.7 | 2611.1 | 2443.4 | 2281.9 | 2099.9 | 1928.2 | 1770.7 | 1613.3 | 1470.2 | 1333.2 |
| 45°   | 3261.3 | 3083.4 | 2901.5 | 2711.3 | 2521.1 | 2324.8 | 2134.7 | 1942.5 | 1770.7 | 1601.0 | 1445.6 |
| 42.5° | 3598.7 | 3398.3 | 3195.9 | 2985.3 | 2774.7 | 2560.0 | 2345.3 | 2134.7 | 1928.2 | 1740.1 | 1564.2 |
| 40°   | 3946.3 | 3725.5 | 3494.4 | 3265.4 | 3040.5 | 2795.1 | 2560.0 | 2324.8 | 2099.9 | 1883.2 | 1682.8 |
| 37.5° | 4293.9 | 4052.6 | 3803.2 | 3545.5 | 3287.9 | 3040.5 | 2774.7 | 2521.1 | 2281.9 | 2032.5 | 1809.6 |
| 35°   | 4643.6 | 4377.7 | 4107.8 | 3827.7 | 3545.5 | 3265.4 | 2985.3 | 2711.3 | 2443.4 | 2183.8 | 1942.5 |
| 32.5° | 4995.3 | 4704.9 | 4406.4 | 4107.8 | 3803.2 | 3494.4 | 3195.9 | 2901.5 | 2611.1 | 2331.0 | 2063.1 |
| 30°   | 5340.8 | 5025.9 | 4704.9 | 4377.7 | 4052.6 | 3725.5 | 3398.3 | 3083.4 | 2776.7 | 2476.2 | 2189.9 |
| 27.5° | 5678.2 | 5340.8 | 4995.3 | 4643.6 | 4293.9 | 3946.3 | 3598.7 | 3261.3 | 2934.2 | 2615.2 | 2308.5 |
| 25°   | 6003.3 | 5643.4 | 5273.3 | 4899.1 | 4527.0 | 4156.9 | 3790.9 | 3427.0 | 3083.4 | 2748.1 | 2427.1 |
| 22.5° | 6310.0 | 5929.7 | 5539.1 | 5142.5 | 4743.8 | 4353.2 | 3968.8 | 3590.5 | 3224.5 | 2872.8 | 2535.5 |
| 20°   | 6604.4 | 6197.5 | 5800.9 | 5367.4 | 4950.3 | 4539.3 | 4136.5 | 3739.8 | 3353.3 | 2987.3 | 2633.6 |
| 17.5° | 6872.3 | 6445.0 | 6011.5 | 5576.0 | 5138.4 | 4706.9 | 4285.7 | 3891.1 | 3471.9 | 3091.6 | 2727.7 |
| 15°   | 7113.6 | 6667.8 | 6213.9 | 5762.0 | 5306.0 | 4858.3 | 4420.7 | 3995.4 | 3580.3 | 3185.7 | 2809.4 |
| 12.5° | 7324.2 | 6862.1 | 6391.8 | 5923.6 | 5455.3 | 4991.2 | 4539.3 | 4099.7 | 3674.4 | 3265.4 | 2879.0 |
| 10°   | 7498.0 | 7025.7 | 6541.1 | 6058.5 | 5578.0 | 5101.6 | 4635.4 | 4187.6 | 3752.1 | 3332.9 | 2936.2 |
| 7.5°  | 7639.1 | 7154.5 | 6661.7 | 6164.8 | 5674.1 | 5187.5 | 4713.1 | 4255.1 | 3813.4 | 3384.0 | 2981.2 |
| 5°    | 7739.3 | 7248.5 | 6747.6 | 6240.5 | 5743.6 | 5250.8 | 4768.3 | 4304.1 | 3856.3 | 3420.8 | 3013.9 |
| 2.5°  | 7802.7 | 7324.2 | 6817.1 | 6303.9 | 5800.9 | 5302.0 | 4813.3 | 4343.0 | 3891.1 | 3451.5 | 3040.5 |
| 0°    | 7823.1 | 7324.2 | 6817.1 | 6303.9 | 5800.9 | 5302.0 | 4813.3 | 4343.0 | 3891.1 | 3451.5 | 3040.5 |



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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° | 49.1   | 45.0   | 40.9   | 38.8   | 34.8   | 32.7   | 28.6  | 24.5  | 22.5  | 18.4  | 14.3  |
| 85°   | 98.1   | 90.0   | 83.8   | 77.7   | 71.6   | 63.4   | 57.3  | 51.1  | 42.9  | 36.8  | 28.6  |
| 82.5° | 149.3  | 139.0  | 128.8  | 118.6  | 108.4  | 98.1   | 85.9  | 75.7  | 65.4  | 55.2  | 42.9  |
| 80°   | 206.5  | 190.2  | 175.8  | 161.5  | 147.2  | 132.9  | 116.5 | 102.2 | 85.9  | 71.6  | 57.3  |
| 77.5° | 265.8  | 247.4  | 227.0  | 206.5  | 186.1  | 167.7  | 147.2 | 128.8 | 110.4 | 90.0  | 71.6  |
| 75°   | 329.2  | 304.7  | 282.2  | 255.6  | 231.1  | 204.5  | 179.9 | 155.4 | 132.9 | 110.4 | 85.9  |
| 72.5° | 394.6  | 364.0  | 333.3  | 304.7  | 274.0  | 243.3  | 214.7 | 184.0 | 155.4 | 128.8 | 102.2 |
| 70°   | 462.1  | 425.3  | 388.5  | 353.7  | 319.0  | 282.2  | 249.5 | 214.7 | 179.9 | 147.2 | 116.5 |
| 67.5° | 533.7  | 490.7  | 447.8  | 402.8  | 364.0  | 323.1  | 282.2 | 243.3 | 204.5 | 167.7 | 132.9 |
| 65°   | 611.4  | 560.3  | 507.1  | 460.1  | 408.9  | 364.0  | 319.0 | 274.0 | 231.1 | 186.1 | 147.2 |
| 62.5° | 691.1  | 631.8  | 572.5  | 513.2  | 460.1  | 402.8  | 353.7 | 304.7 | 255.6 | 206.5 | 161.5 |
| 60°   | 772.9  | 705.4  | 638.0  | 572.5  | 507.1  | 447.8  | 388.5 | 333.3 | 282.2 | 227.0 | 175.8 |
| 57.5° | 856.7  | 781.1  | 705.4  | 631.8  | 560.3  | 490.7  | 425.3 | 364.0 | 304.7 | 247.4 | 190.2 |
| 55°   | 942.6  | 856.7  | 772.9  | 691.1  | 611.4  | 533.7  | 462.1 | 394.6 | 329.2 | 265.8 | 206.5 |
| 52.5° | 1028.5 | 934.4  | 840.4  | 752.5  | 668.6  | 580.7  | 498.9 | 423.3 | 351.7 | 286.3 | 220.8 |
| 50°   | 1116.4 | 1010.1 | 909.9  | 811.8  | 715.7  | 623.6  | 535.7 | 453.9 | 376.2 | 304.7 | 235.1 |
| 47.5° | 1206.4 | 1089.8 | 977.4  | 871.1  | 768.8  | 668.6  | 572.5 | 482.6 | 398.7 | 323.1 | 249.5 |
| 45°   | 1302.5 | 1167.5 | 1046.9 | 932.4  | 819.9  | 713.6  | 609.3 | 511.2 | 423.3 | 341.5 | 263.8 |
| 42.5° | 1396.5 | 1251.4 | 1116.4 | 995.8  | 871.1  | 756.5  | 646.1 | 541.9 | 445.7 | 357.8 | 276.0 |
| 40°   | 1502.9 | 1335.2 | 1181.8 | 1048.9 | 920.1  | 797.4  | 680.9 | 570.5 | 468.2 | 374.2 | 288.3 |
| 37.5° | 1605.1 | 1417.0 | 1255.5 | 1106.2 | 967.2  | 838.3  | 715.7 | 599.1 | 490.7 | 390.5 | 300.6 |
| 35°   | 1709.4 | 1507.0 | 1322.9 | 1159.4 | 1014.2 | 879.2  | 748.4 | 625.7 | 509.1 | 404.9 | 312.8 |
| 32.5° | 1815.7 | 1592.8 | 1394.5 | 1216.6 | 1061.2 | 916.0  | 779.0 | 650.2 | 529.6 | 421.2 | 323.1 |
| 30°   | 1917.9 | 1674.6 | 1462.0 | 1271.8 | 1104.1 | 952.8  | 809.7 | 674.8 | 550.0 | 435.5 | 333.3 |
| 27.5° | 2022.2 | 1760.5 | 1529.5 | 1322.9 | 1145.0 | 985.6  | 836.3 | 697.2 | 568.4 | 449.8 | 343.5 |
| 25°   | 2122.4 | 1842.3 | 1592.8 | 1372.0 | 1181.8 | 1018.3 | 864.9 | 719.7 | 584.8 | 462.1 | 351.7 |
| 22.5° | 2214.4 | 1913.9 | 1650.1 | 1419.0 | 1220.7 | 1046.9 | 889.5 | 740.2 | 601.1 | 474.4 | 359.9 |
| 20°   | 2298.3 | 1987.5 | 1709.4 | 1466.1 | 1257.5 | 1075.5 | 909.9 | 758.6 | 615.5 | 484.6 | 368.0 |
| 17.5° | 2380.1 | 2054.9 | 1762.5 | 1509.0 | 1288.2 | 1100.1 | 930.3 | 772.9 | 627.7 | 492.8 | 374.2 |
| 15°   | 2449.6 | 2114.2 | 1809.6 | 1545.8 | 1316.8 | 1120.5 | 946.7 | 787.2 | 638.0 | 501.0 | 378.3 |
| 12.5° | 2510.9 | 2165.4 | 1850.5 | 1576.5 | 1339.3 | 1138.9 | 963.1 | 799.5 | 648.2 | 507.1 | 384.4 |
| 10°   | 2560.0 | 2206.3 | 1883.2 | 1603.1 | 1359.7 | 1153.2 | 973.3 | 809.7 | 654.3 | 513.2 | 388.5 |
| 7.5°  | 2598.8 | 2239.0 | 1909.8 | 1621.5 | 1374.1 | 1165.5 | 983.5 | 815.8 | 660.4 | 517.3 | 394.6 |
| 5°    | 2627.5 | 2263.5 | 1928.2 | 1635.8 | 1386.3 | 1179.8 | 995.8 | 826.1 | 668.6 | 523.4 | 394.6 |
| 2.5°  | 2650.0 | 2281.9 | 1942.5 | 1648.0 | 1394.5 | 1179.8 | 995.8 | 826.1 | 668.6 | 523.4 | 394.6 |
| 0°    | 2650.0 | 2281.9 | 1942.5 | 1648.0 | 1394.5 | 1179.8 | 995.8 | 826.1 | 668.6 | 523.4 | 394.6 |

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| 90°   | 0.0   | 0.0   | 0.0   | 0.0 |
| 87.5° | 10.2  | 8.2   | 4.1   | 0.0 |
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| 30°   | 239.2 | 151.3 | 73.6  | 0.0 |
| 27.5° | 245.4 | 155.4 | 73.6  | 0.0 |
| 25°   | 251.5 | 159.5 | 75.7  | 0.0 |
| 22.5° | 257.6 | 161.5 | 77.7  | 0.0 |
| 20°   | 263.8 | 165.6 | 79.7  | 0.0 |
| 17.5° | 267.9 | 167.7 | 79.7  | 0.0 |
| 15°   | 271.9 | 169.7 | 83.8  | 0.0 |
| 12.5° | 274.0 | 171.8 | 83.8  | 0.0 |
| 10°   | 278.1 | 175.8 | 83.8  | 0.0 |
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| 0°    | 282.2 | 175.8 | 83.8  | 0.0 |

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