

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: P624621

Luminaire Tested: **IFLD-S-SA6A-950-U-77**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624621  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-950-U-77  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens  
Light Source: (96) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

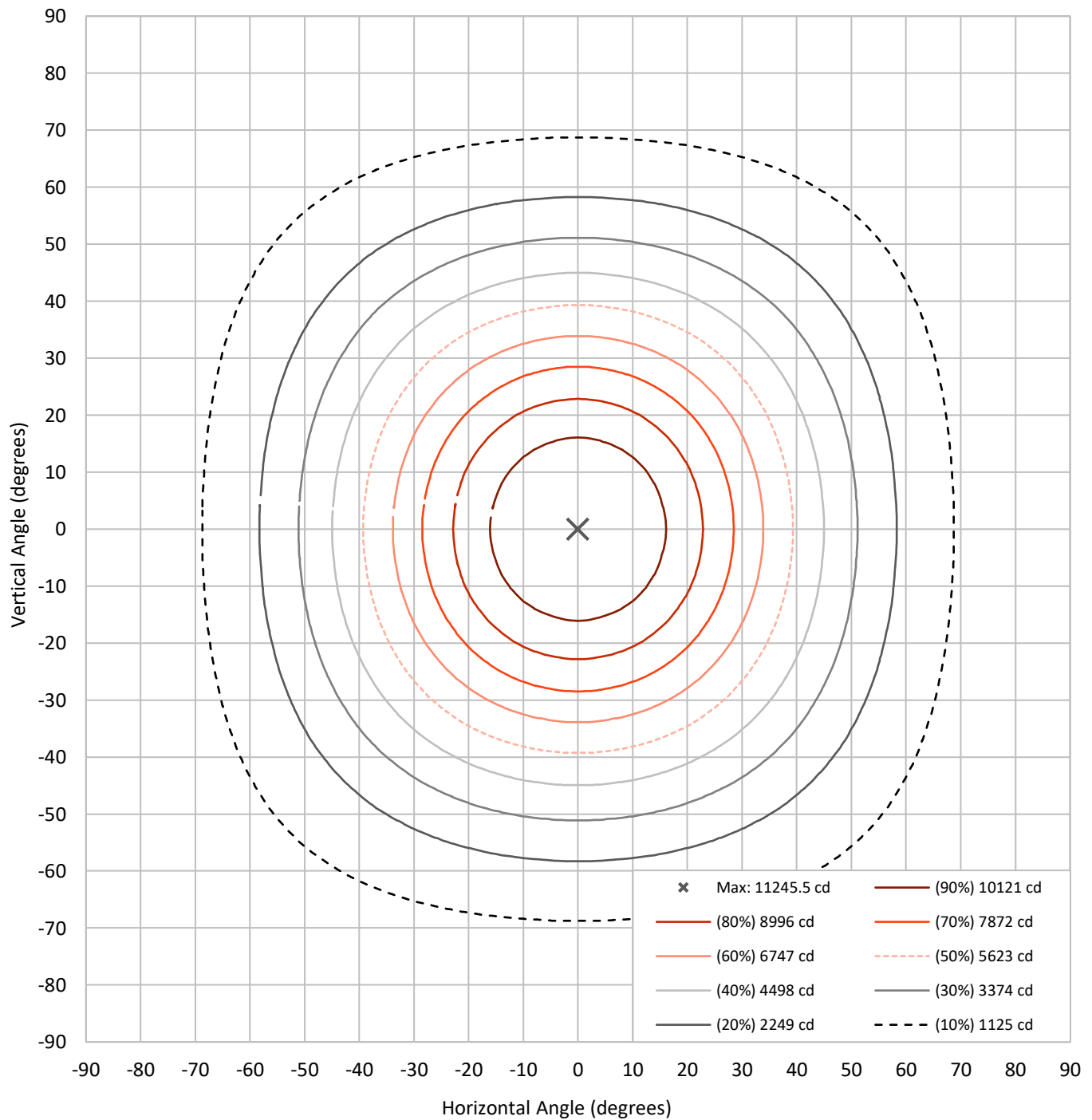
|                                   |                                      |                      |                   |
|-----------------------------------|--------------------------------------|----------------------|-------------------|
| Lumens per Lamp:                  | N/A                                  | NEMA Type:           | 7H x 7V           |
| Luminaire Lumens:                 | 20247.7 lumens                       | Max Intensity:       | 11245.5 candela   |
| Efficiency:                       | N/A                                  | Max Intensity Angle: | 0°H x 0°V         |
| Efficacy:                         | 106.8 lumens/watt                    |                      |                   |
| Luminous Opening:                 | Rectangular (W 1.5' x L: 1' 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:                      | 8761 lumens                          | Field Lumens:        | 14345.8 lumens    |
| Beam Efficiency:                  | 43.3%                                | Field Efficiency:    | 70.9%             |
| Input Watts (W):                  | 189.6                                |                      |                   |
| 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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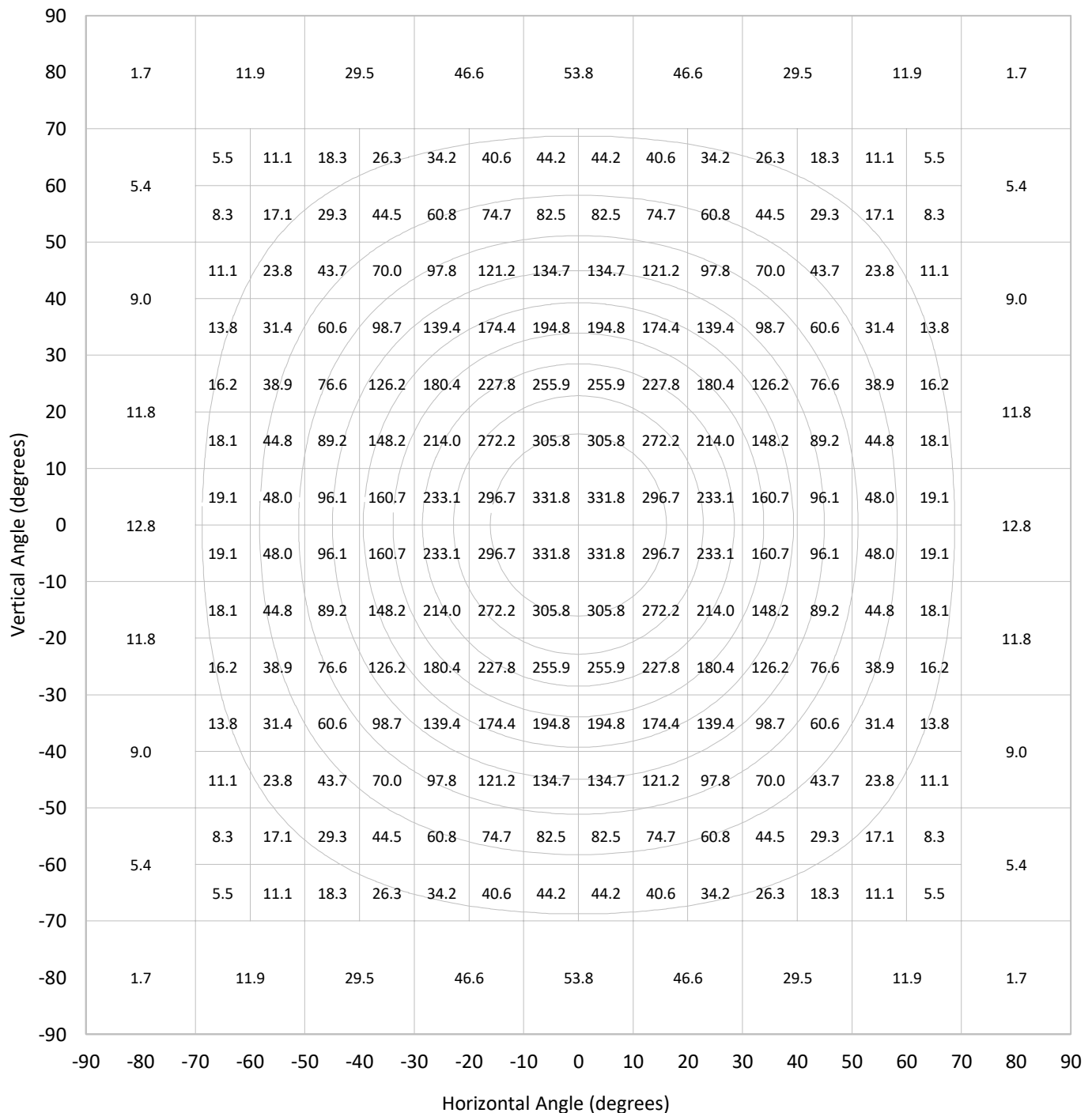
## Iso-Candela Plot



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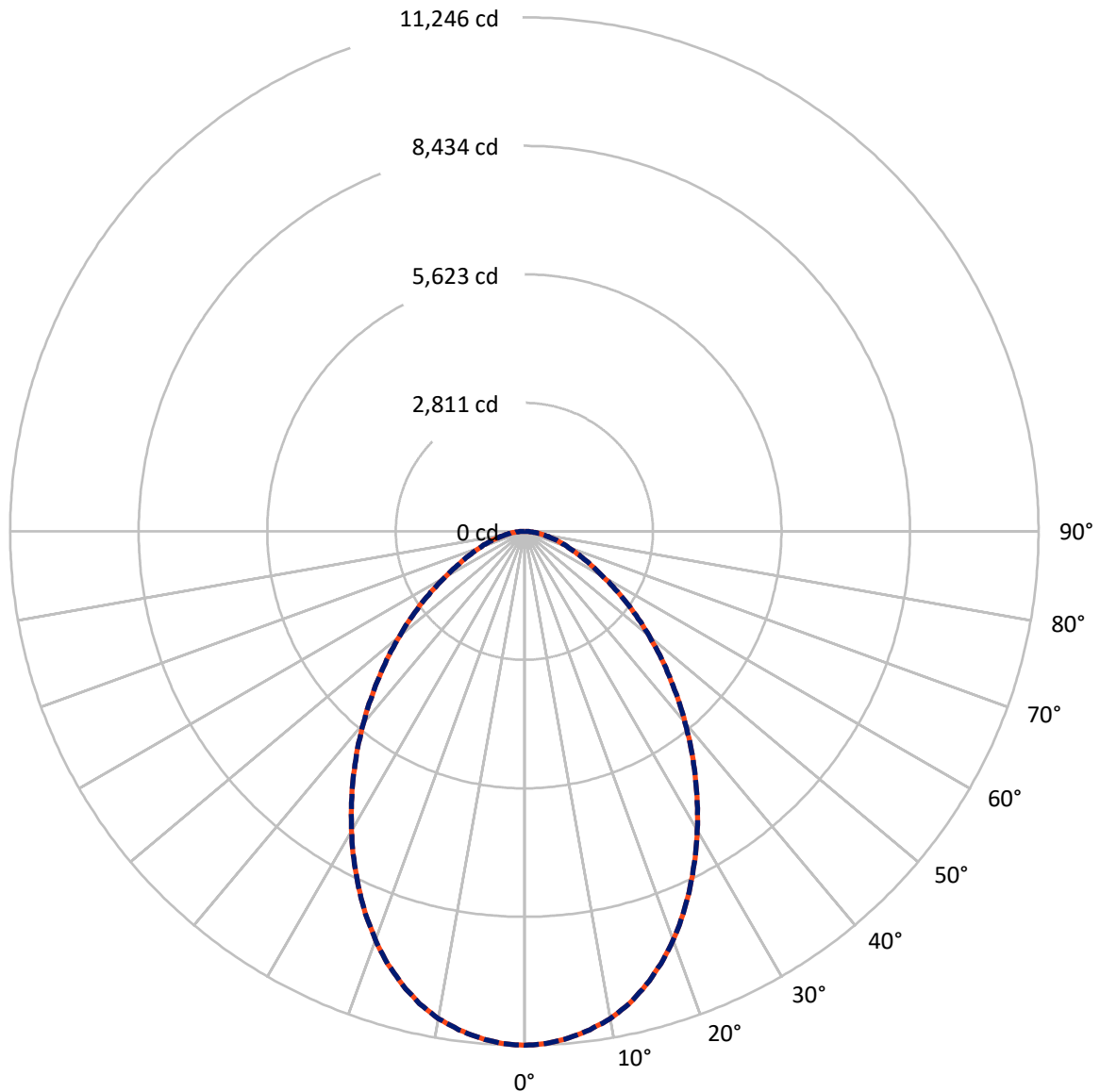
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## Lumen Table



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## Luminous Intensity Polar Plot

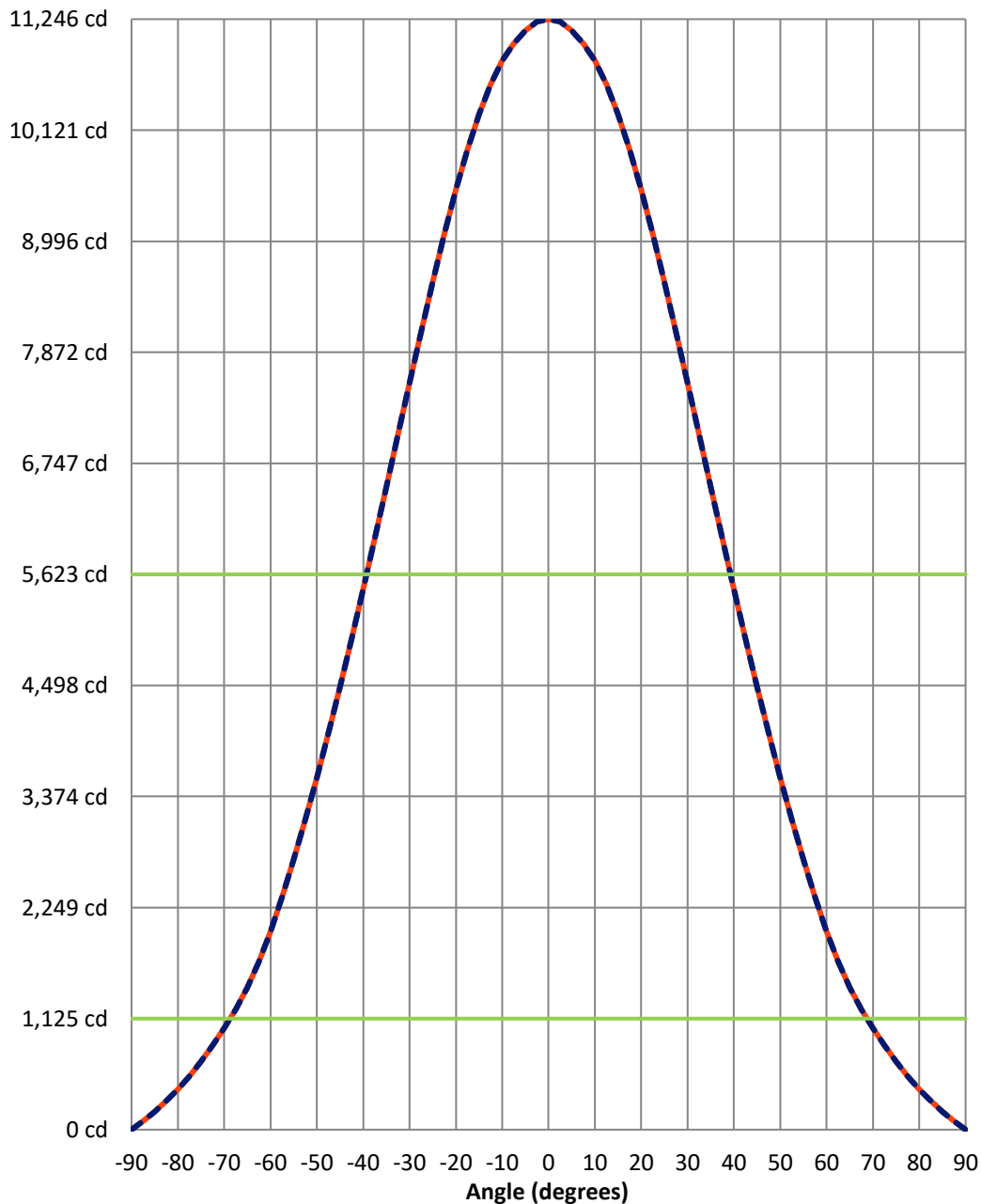


— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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## Luminous Intensity Plot



**Beam:**

H Angle: 78.6°  
V Angle: 78.6°  
Lumens: 8761  
Efficiency: 43.3%

**Field:**

H Angle: 137.5°  
V Angle: 137.5°  
Lumens: 14345.8  
Efficiency: 70.9%

**Spill:**

Lumens: 5901.9  
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° | 86.6    | 86.6    | 86.6    | 86.6    | 86.6    | 86.6    | 86.6    | 82.3   | 82.3   | 80.2   | 78.1   |
| 85°   | 181.5   | 181.5   | 181.5   | 181.5   | 181.5   | 177.3   | 175.2   | 173.1  | 171.0  | 166.8  | 164.7  |
| 82.5° | 291.3   | 291.3   | 291.3   | 291.3   | 287.1   | 282.9   | 280.8   | 276.5  | 272.3  | 266.0  | 259.7  |
| 80°   | 407.4   | 407.4   | 407.4   | 407.4   | 401.1   | 396.9   | 390.5   | 386.3  | 380.0  | 371.5  | 363.1  |
| 77.5° | 540.4   | 540.4   | 540.4   | 534.1   | 529.9   | 523.5   | 517.2   | 508.8  | 500.3  | 489.8  | 477.1  |
| 75°   | 690.3   | 690.3   | 690.3   | 681.9   | 675.5   | 669.2   | 658.6   | 648.1  | 635.4  | 620.6  | 603.8  |
| 72.5° | 852.9   | 852.9   | 852.9   | 842.3   | 836.0   | 825.4   | 812.7   | 798.0  | 783.2  | 764.2  | 743.1  |
| 70°   | 1028.1  | 1028.1  | 1028.1  | 1015.4  | 1004.9  | 994.3   | 977.4   | 960.5  | 939.4  | 918.3  | 893.0  |
| 67.5° | 1218.1  | 1218.1  | 1218.1  | 1203.3  | 1190.6  | 1175.8  | 1156.8  | 1135.7 | 1110.4 | 1080.9 | 1051.3 |
| 65°   | 1439.7  | 1439.7  | 1431.3  | 1418.6  | 1403.8  | 1382.7  | 1359.5  | 1330.0 | 1298.3 | 1260.3 | 1220.2 |
| 62.5° | 1701.5  | 1701.5  | 1688.8  | 1674.1  | 1655.1  | 1627.6  | 1595.9  | 1557.9 | 1513.6 | 1465.1 | 1416.5 |
| 60°   | 2005.5  | 2005.5  | 1990.7  | 1971.7  | 1944.3  | 1910.5  | 1868.3  | 1819.7 | 1764.8 | 1703.6 | 1644.5 |
| 57.5° | 2355.9  | 2355.9  | 2336.9  | 2311.6  | 2277.8  | 2235.6  | 2182.8  | 2121.6 | 2051.9 | 1975.9 | 1902.0 |
| 55°   | 2735.9  | 2735.9  | 2712.7  | 2683.1  | 2643.0  | 2592.4  | 2529.0  | 2457.2 | 2372.8 | 2286.3 | 2191.3 |
| 52.5° | 3139.1  | 3139.1  | 3111.7  | 3077.9  | 3031.4  | 2972.3  | 2900.6  | 2816.1 | 2719.0 | 2617.7 | 2505.8 |
| 50°   | 3563.4  | 3563.4  | 3531.8  | 3493.8  | 3441.0  | 3371.3  | 3289.0  | 3191.9 | 3084.2 | 2966.0 | 2837.2 |
| 47.5° | 4017.3  | 4017.3  | 3981.4  | 3937.1  | 3873.8  | 3793.5  | 3696.4  | 3584.5 | 3462.1 | 3329.1 | 3183.4 |
| 45°   | 4483.8  | 4483.8  | 4443.7  | 4393.1  | 4323.4  | 4232.6  | 4125.0  | 4017.3 | 3861.1 | 3707.0 | 3538.1 |
| 42.5° | 4969.4  | 4969.4  | 4922.9  | 4865.9  | 4785.7  | 4686.5  | 4564.1  | 4424.7 | 4270.6 | 4097.5 | 3913.9 |
| 40°   | 5473.9  | 5473.9  | 5421.1  | 5355.7  | 5267.0  | 5153.0  | 5015.8  | 4859.6 | 4686.5 | 4494.4 | 4291.7 |
| 37.5° | 5989.0  | 5989.0  | 5929.9  | 5858.1  | 5758.9  | 5632.2  | 5478.1  | 5305.0 | 5110.8 | 4897.6 | 4673.8 |
| 35°   | 6508.3  | 6508.3  | 6442.9  | 6364.8  | 6255.0  | 6115.7  | 5948.9  | 5756.8 | 5541.5 | 5309.3 | 5058.0 |
| 32.5° | 7038.2  | 7038.2  | 6966.4  | 6877.8  | 6753.2  | 6599.1  | 6415.4  | 6206.4 | 5989.0 | 5718.8 | 5444.4 |
| 30°   | 7561.7  | 7561.7  | 7483.6  | 7386.5  | 7253.5  | 7084.6  | 6884.1  | 6654.0 | 6398.5 | 6122.0 | 5826.5 |
| 27.5° | 8076.8  | 8055.7  | 7990.3  | 7886.8  | 7741.2  | 7561.7  | 7344.3  | 7095.2 | 6818.6 | 6514.7 | 6198.0 |
| 25°   | 8583.5  | 8560.2  | 8488.5  | 8374.5  | 8218.3  | 8021.9  | 7787.6  | 7521.6 | 7224.0 | 6903.1 | 6556.9 |
| 22.5° | 9069.0  | 9043.7  | 8967.7  | 8845.2  | 8678.5  | 8465.3  | 8214.0  | 7929.0 | 7612.4 | 7268.3 | 6903.1 |
| 20°   | 9518.7  | 9491.2  | 9413.1  | 9284.3  | 9111.2  | 8885.3  | 8619.4  | 8313.3 | 7975.5 | 7612.4 | 7224.0 |
| 17.5° | 9924.0  | 9896.5  | 9814.2  | 9681.2  | 9518.7  | 9267.4  | 8993.0  | 8670.0 | 8313.3 | 7929.0 | 7521.6 |
| 15°   | 10280.7 | 10251.2 | 10166.7 | 10033.8 | 9848.0  | 9611.5  | 9322.3  | 8993.0 | 8619.4 | 8214.0 | 7787.6 |
| 12.5° | 10584.7 | 10555.2 | 10468.6 | 10335.6 | 10143.5 | 9907.1  | 9611.5  | 9267.4 | 8885.3 | 8465.3 | 8021.9 |
| 10°   | 10825.4 | 10795.8 | 10713.5 | 10586.8 | 10388.4 | 10143.5 | 9848.0  | 9518.7 | 9111.2 | 8678.5 | 8218.3 |
| 7.5°  | 10998.5 | 10971.1 | 10895.1 | 10768.4 | 10586.8 | 10335.6 | 10033.8 | 9681.2 | 9284.3 | 8845.2 | 8374.5 |
| 5°    | 11129.4 | 11097.7 | 11021.7 | 10895.1 | 10713.5 | 10468.6 | 10166.7 | 9814.2 | 9413.1 | 8967.7 | 8488.5 |
| 2.5°  | 11220.2 | 11182.2 | 11097.7 | 10971.1 | 10795.8 | 10555.2 | 10251.2 | 9896.5 | 9491.2 | 9043.7 | 8560.2 |
| 0°    | 11245.5 | 11220.2 | 11129.4 | 10998.5 | 10825.4 | 10584.7 | 10280.7 | 9924.0 | 9518.7 | 9069.0 | 8583.5 |

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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° | 76.0   | 76.0   | 73.9   | 71.8   | 69.7   | 65.4   | 63.3   | 61.2   | 59.1   | 54.9   | 52.8   |
| 85°   | 160.4  | 156.2  | 152.0  | 147.8  | 141.4  | 137.2  | 130.9  | 126.7  | 120.3  | 114.0  | 107.7  |
| 82.5° | 253.3  | 247.0  | 238.5  | 232.2  | 223.8  | 213.2  | 204.8  | 194.2  | 183.7  | 175.2  | 164.7  |
| 80°   | 354.7  | 344.1  | 333.5  | 323.0  | 310.3  | 297.7  | 285.0  | 272.3  | 257.5  | 242.8  | 228.0  |
| 77.5° | 464.4  | 449.7  | 434.9  | 418.0  | 403.2  | 386.3  | 369.4  | 352.5  | 333.5  | 314.5  | 295.5  |
| 75°   | 586.9  | 567.9  | 546.8  | 525.6  | 506.6  | 483.4  | 460.2  | 437.0  | 411.7  | 388.4  | 363.1  |
| 72.5° | 719.9  | 696.6  | 671.3  | 646.0  | 618.5  | 589.0  | 559.4  | 527.8  | 498.2  | 468.6  | 437.0  |
| 70°   | 863.4  | 836.0  | 804.3  | 772.6  | 738.9  | 703.0  | 667.1  | 629.1  | 591.1  | 553.1  | 515.1  |
| 67.5° | 1017.5 | 983.7  | 945.7  | 907.7  | 865.5  | 823.3  | 781.1  | 736.8  | 690.3  | 643.9  | 599.5  |
| 65°   | 1182.2 | 1140.0 | 1095.6 | 1047.1 | 998.5  | 950.0  | 899.3  | 846.5  | 793.7  | 738.9  | 690.3  |
| 62.5° | 1365.8 | 1313.1 | 1256.1 | 1197.0 | 1142.1 | 1083.0 | 1028.1 | 962.6  | 899.3  | 838.1  | 776.9  |
| 60°   | 1579.1 | 1509.4 | 1439.7 | 1365.8 | 1296.2 | 1220.2 | 1152.6 | 1080.9 | 1009.1 | 939.4  | 867.6  |
| 57.5° | 1817.6 | 1728.9 | 1644.5 | 1555.8 | 1462.9 | 1378.5 | 1292.0 | 1205.4 | 1125.2 | 1042.9 | 964.7  |
| 55°   | 2087.8 | 1980.2 | 1874.6 | 1764.8 | 1657.2 | 1551.6 | 1441.8 | 1344.7 | 1245.5 | 1152.6 | 1061.9 |
| 52.5° | 2383.4 | 2260.9 | 2130.0 | 2005.5 | 1868.3 | 1737.4 | 1614.9 | 1492.5 | 1376.4 | 1264.5 | 1161.1 |
| 50°   | 2700.0 | 2556.5 | 2406.6 | 2254.6 | 2098.4 | 1944.3 | 1796.5 | 1652.9 | 1517.8 | 1387.0 | 1264.5 |
| 47.5° | 3029.3 | 2866.8 | 2695.8 | 2522.7 | 2355.9 | 2168.0 | 1990.7 | 1828.2 | 1665.6 | 1517.8 | 1376.4 |
| 45°   | 3367.1 | 3183.4 | 2995.6 | 2799.2 | 2602.9 | 2400.2 | 2203.9 | 2005.5 | 1828.2 | 1652.9 | 1492.5 |
| 42.5° | 3715.4 | 3508.5 | 3299.5 | 3082.1 | 2864.7 | 2643.0 | 2421.4 | 2203.9 | 1990.7 | 1796.5 | 1614.9 |
| 40°   | 4074.3 | 3846.3 | 3607.8 | 3371.3 | 3139.1 | 2885.8 | 2643.0 | 2400.2 | 2168.0 | 1944.3 | 1737.4 |
| 37.5° | 4433.2 | 4184.1 | 3926.5 | 3660.5 | 3394.5 | 3139.1 | 2864.7 | 2602.9 | 2355.9 | 2098.4 | 1868.3 |
| 35°   | 4794.2 | 4519.7 | 4241.1 | 3951.9 | 3660.5 | 3371.3 | 3082.1 | 2799.2 | 2522.7 | 2254.6 | 2005.5 |
| 32.5° | 5157.3 | 4857.5 | 4549.3 | 4241.1 | 3926.5 | 3607.8 | 3299.5 | 2995.6 | 2695.8 | 2406.6 | 2130.0 |
| 30°   | 5514.0 | 5188.9 | 4857.5 | 4519.7 | 4184.1 | 3846.3 | 3508.5 | 3183.4 | 2866.8 | 2556.5 | 2260.9 |
| 27.5° | 5862.3 | 5514.0 | 5157.3 | 4794.2 | 4433.2 | 4074.3 | 3715.4 | 3367.1 | 3029.3 | 2700.0 | 2383.4 |
| 25°   | 6198.0 | 5826.5 | 5444.4 | 5058.0 | 4673.8 | 4291.7 | 3913.9 | 3538.1 | 3183.4 | 2837.2 | 2505.8 |
| 22.5° | 6514.7 | 6122.0 | 5718.8 | 5309.3 | 4897.6 | 4494.4 | 4097.5 | 3707.0 | 3329.1 | 2966.0 | 2617.7 |
| 20°   | 6818.6 | 6398.5 | 5989.0 | 5541.5 | 5110.8 | 4686.5 | 4270.6 | 3861.1 | 3462.1 | 3084.2 | 2719.0 |
| 17.5° | 7095.2 | 6654.0 | 6206.4 | 5756.8 | 5305.0 | 4859.6 | 4424.7 | 4017.3 | 3584.5 | 3191.9 | 2816.1 |
| 15°   | 7344.3 | 6884.1 | 6415.4 | 5948.9 | 5478.1 | 5015.8 | 4564.1 | 4125.0 | 3696.4 | 3289.0 | 2900.6 |
| 12.5° | 7561.7 | 7084.6 | 6599.1 | 6115.7 | 5632.2 | 5153.0 | 4686.5 | 4232.6 | 3793.5 | 3371.3 | 2972.3 |
| 10°   | 7741.2 | 7253.5 | 6753.2 | 6255.0 | 5758.9 | 5267.0 | 4785.7 | 4323.4 | 3873.8 | 3441.0 | 3031.4 |
| 7.5°  | 7886.8 | 7386.5 | 6877.8 | 6364.8 | 5858.1 | 5355.7 | 4865.9 | 4393.1 | 3937.1 | 3493.8 | 3077.9 |
| 5°    | 7990.3 | 7483.6 | 6966.4 | 6442.9 | 5929.9 | 5421.1 | 4922.9 | 4443.7 | 3981.4 | 3531.8 | 3111.7 |
| 2.5°  | 8055.7 | 7561.7 | 7038.2 | 6508.3 | 5989.0 | 5473.9 | 4969.4 | 4483.8 | 4017.3 | 3563.4 | 3139.1 |
| 0°    | 8076.8 | 7561.7 | 7038.2 | 6508.3 | 5989.0 | 5473.9 | 4969.4 | 4483.8 | 4017.3 | 3563.4 | 3139.1 |

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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° | 50.7   | 46.4   | 42.2   | 40.1   | 35.9   | 33.8   | 29.6   | 25.3  | 23.2  | 19.0  | 14.8  |
| 85°   | 101.3  | 92.9   | 86.6   | 80.2   | 73.9   | 65.4   | 59.1   | 52.8  | 44.3  | 38.0  | 29.6  |
| 82.5° | 154.1  | 143.6  | 133.0  | 122.4  | 111.9  | 101.3  | 88.7   | 78.1  | 67.6  | 57.0  | 44.3  |
| 80°   | 213.2  | 196.3  | 181.5  | 166.8  | 152.0  | 137.2  | 120.3  | 105.6 | 88.7  | 73.9  | 59.1  |
| 77.5° | 274.4  | 255.4  | 234.3  | 213.2  | 192.1  | 173.1  | 152.0  | 133.0 | 114.0 | 92.9  | 73.9  |
| 75°   | 339.9  | 314.5  | 291.3  | 263.9  | 238.5  | 211.1  | 185.8  | 160.4 | 137.2 | 114.0 | 88.7  |
| 72.5° | 407.4  | 375.8  | 344.1  | 314.5  | 282.9  | 251.2  | 221.7  | 190.0 | 160.4 | 133.0 | 105.6 |
| 70°   | 477.1  | 439.1  | 401.1  | 365.2  | 329.3  | 291.3  | 257.5  | 221.7 | 185.8 | 152.0 | 120.3 |
| 67.5° | 551.0  | 506.6  | 462.3  | 415.9  | 375.8  | 333.5  | 291.3  | 251.2 | 211.1 | 173.1 | 137.2 |
| 65°   | 631.2  | 578.4  | 523.5  | 475.0  | 422.2  | 375.8  | 329.3  | 282.9 | 238.5 | 192.1 | 152.0 |
| 62.5° | 713.5  | 652.3  | 591.1  | 529.9  | 475.0  | 415.9  | 365.2  | 314.5 | 263.9 | 213.2 | 166.8 |
| 60°   | 798.0  | 728.3  | 658.6  | 591.1  | 523.5  | 462.3  | 401.1  | 344.1 | 291.3 | 234.3 | 181.5 |
| 57.5° | 884.5  | 806.4  | 728.3  | 652.3  | 578.4  | 506.6  | 439.1  | 375.8 | 314.5 | 255.4 | 196.3 |
| 55°   | 973.2  | 884.5  | 798.0  | 713.5  | 631.2  | 551.0  | 477.1  | 407.4 | 339.9 | 274.4 | 213.2 |
| 52.5° | 1061.9 | 964.7  | 867.6  | 776.9  | 690.3  | 599.5  | 515.1  | 437.0 | 363.1 | 295.5 | 228.0 |
| 50°   | 1152.6 | 1042.9 | 939.4  | 838.1  | 738.9  | 643.9  | 553.1  | 468.6 | 388.4 | 314.5 | 242.8 |
| 47.5° | 1245.5 | 1125.2 | 1009.1 | 899.3  | 793.7  | 690.3  | 591.1  | 498.2 | 411.7 | 333.5 | 257.5 |
| 45°   | 1344.7 | 1205.4 | 1080.9 | 962.6  | 846.5  | 736.8  | 629.1  | 527.8 | 437.0 | 352.5 | 272.3 |
| 42.5° | 1441.8 | 1292.0 | 1152.6 | 1028.1 | 899.3  | 781.1  | 667.1  | 559.4 | 460.2 | 369.4 | 285.0 |
| 40°   | 1551.6 | 1378.5 | 1220.2 | 1083.0 | 950.0  | 823.3  | 703.0  | 589.0 | 483.4 | 386.3 | 297.7 |
| 37.5° | 1657.2 | 1462.9 | 1296.2 | 1142.1 | 998.5  | 865.5  | 738.9  | 618.5 | 506.6 | 403.2 | 310.3 |
| 35°   | 1764.8 | 1555.8 | 1365.8 | 1197.0 | 1047.1 | 907.7  | 772.6  | 646.0 | 525.6 | 418.0 | 323.0 |
| 32.5° | 1874.6 | 1644.5 | 1439.7 | 1256.1 | 1095.6 | 945.7  | 804.3  | 671.3 | 546.8 | 434.9 | 333.5 |
| 30°   | 1980.2 | 1728.9 | 1509.4 | 1313.1 | 1140.0 | 983.7  | 836.0  | 696.6 | 567.9 | 449.7 | 344.1 |
| 27.5° | 2087.8 | 1817.6 | 1579.1 | 1365.8 | 1182.2 | 1017.5 | 863.4  | 719.9 | 586.9 | 464.4 | 354.7 |
| 25°   | 2191.3 | 1902.0 | 1644.5 | 1416.5 | 1220.2 | 1051.3 | 893.0  | 743.1 | 603.8 | 477.1 | 363.1 |
| 22.5° | 2286.3 | 1975.9 | 1703.6 | 1465.1 | 1260.3 | 1080.9 | 918.3  | 764.2 | 620.6 | 489.8 | 371.5 |
| 20°   | 2372.8 | 2051.9 | 1764.8 | 1513.6 | 1298.3 | 1110.4 | 939.4  | 783.2 | 635.4 | 500.3 | 380.0 |
| 17.5° | 2457.2 | 2121.6 | 1819.7 | 1557.9 | 1330.0 | 1135.7 | 960.5  | 798.0 | 648.1 | 508.8 | 386.3 |
| 15°   | 2529.0 | 2182.8 | 1868.3 | 1595.9 | 1359.5 | 1156.8 | 977.4  | 812.7 | 658.6 | 517.2 | 390.5 |
| 12.5° | 2592.4 | 2235.6 | 1910.5 | 1627.6 | 1382.7 | 1175.8 | 994.3  | 825.4 | 669.2 | 523.5 | 396.9 |
| 10°   | 2643.0 | 2277.8 | 1944.3 | 1655.1 | 1403.8 | 1190.6 | 1004.9 | 836.0 | 675.5 | 529.9 | 401.1 |
| 7.5°  | 2683.1 | 2311.6 | 1971.7 | 1674.1 | 1418.6 | 1203.3 | 1015.4 | 842.3 | 681.9 | 534.1 | 407.4 |
| 5°    | 2712.7 | 2336.9 | 1990.7 | 1688.8 | 1431.3 | 1218.1 | 1028.1 | 852.9 | 690.3 | 540.4 | 407.4 |
| 2.5°  | 2735.9 | 2355.9 | 2005.5 | 1701.5 | 1439.7 | 1218.1 | 1028.1 | 852.9 | 690.3 | 540.4 | 407.4 |
| 0°    | 2735.9 | 2355.9 | 2005.5 | 1701.5 | 1439.7 | 1218.1 | 1028.1 | 852.9 | 690.3 | 540.4 | 407.4 |

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|       | 82.5° | 85°   | 87.5° | 90° |
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| 90°   | 0.0   | 0.0   | 0.0   | 0.0 |
| 87.5° | 10.6  | 8.4   | 4.2   | 0.0 |
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| 55°   | 154.1 | 101.3 | 50.7  | 0.0 |
| 52.5° | 164.7 | 107.7 | 52.8  | 0.0 |
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| 47.5° | 183.7 | 120.3 | 59.1  | 0.0 |
| 45°   | 194.2 | 126.7 | 61.2  | 0.0 |
| 42.5° | 204.8 | 130.9 | 63.3  | 0.0 |
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| 35°   | 232.2 | 147.8 | 71.8  | 0.0 |
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| 30°   | 247.0 | 156.2 | 76.0  | 0.0 |
| 27.5° | 253.3 | 160.4 | 76.0  | 0.0 |
| 25°   | 259.7 | 164.7 | 78.1  | 0.0 |
| 22.5° | 266.0 | 166.8 | 80.2  | 0.0 |
| 20°   | 272.3 | 171.0 | 82.3  | 0.0 |
| 17.5° | 276.5 | 173.1 | 82.3  | 0.0 |
| 15°   | 280.8 | 175.2 | 86.6  | 0.0 |
| 12.5° | 282.9 | 177.3 | 86.6  | 0.0 |
| 10°   | 287.1 | 181.5 | 86.6  | 0.0 |
| 7.5°  | 291.3 | 181.5 | 86.6  | 0.0 |
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| 0°    | 291.3 | 181.5 | 86.6  | 0.0 |

(END OF REPORT)