

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: P628290

Luminaire Tested: **IFLD-L-SA7E-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628290  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

|                   |                                    |                      |                 |
|-------------------|------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                | NEMA Type:           | 7H x 7V         |
| Luminaire Lumens: | 58098.2 lumens                     | Max Intensity:       | 18937.7 candela |
| Efficiency:       | N/A                                | Max Intensity Angle: | 20°H x 10°V     |
| Efficacy:         | 109.1 lumens/watt                  |                      |                 |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') |                      |                 |

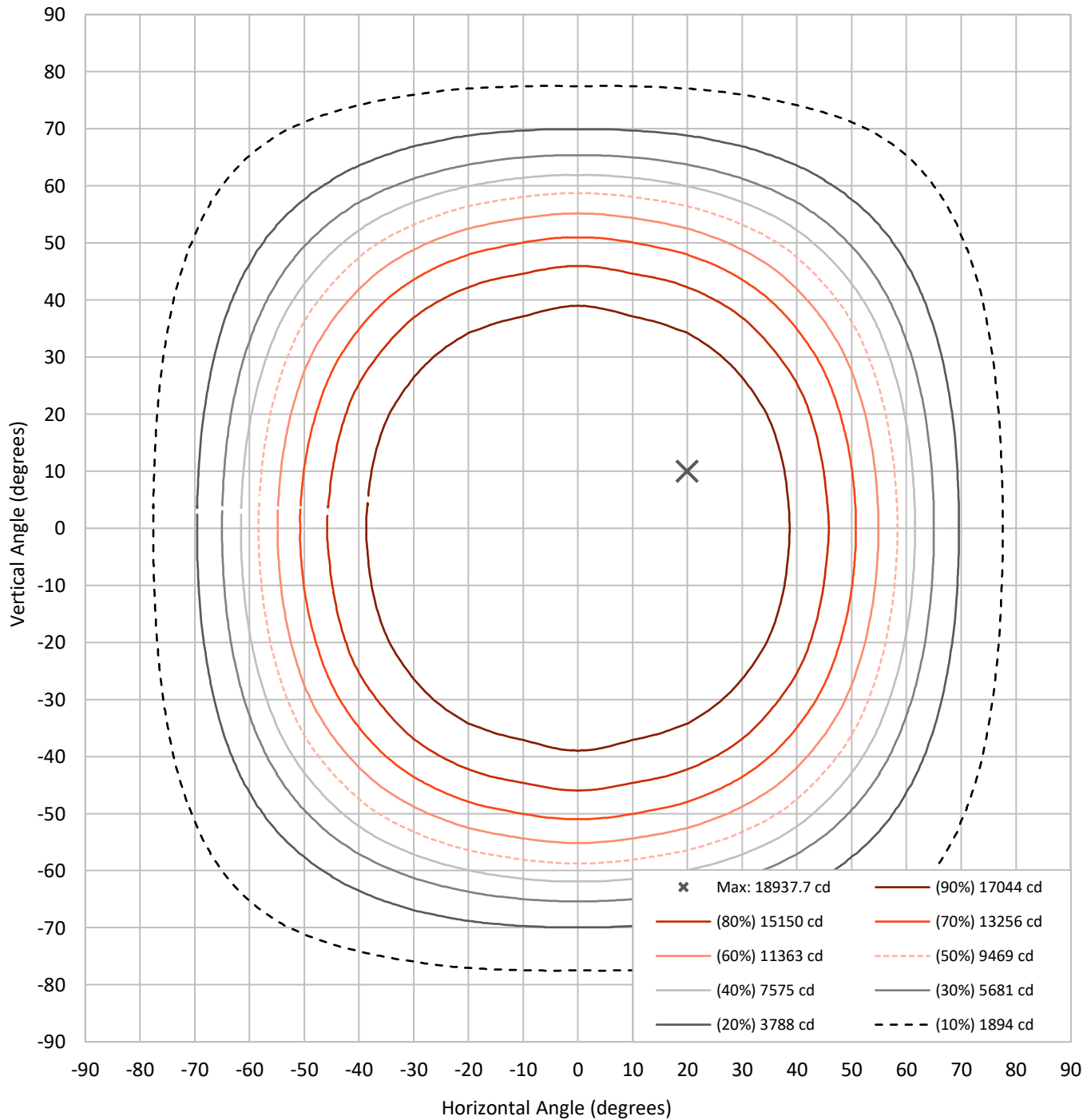
|                   |                   |                    |                 |
|-------------------|-------------------|--------------------|-----------------|
| Beam Angle (50%): | 115.7°H x 112.9°V | Field Angle (10%): | 154.7°H x 154°V |
| Beam Lumens:      | 35650.2 lumens    | Field Lumens:      | 42738.6 lumens  |
| Beam Efficiency:  | 61.4%             | Field Efficiency:  | 73.6%           |

Input Watts (W): 532.7  
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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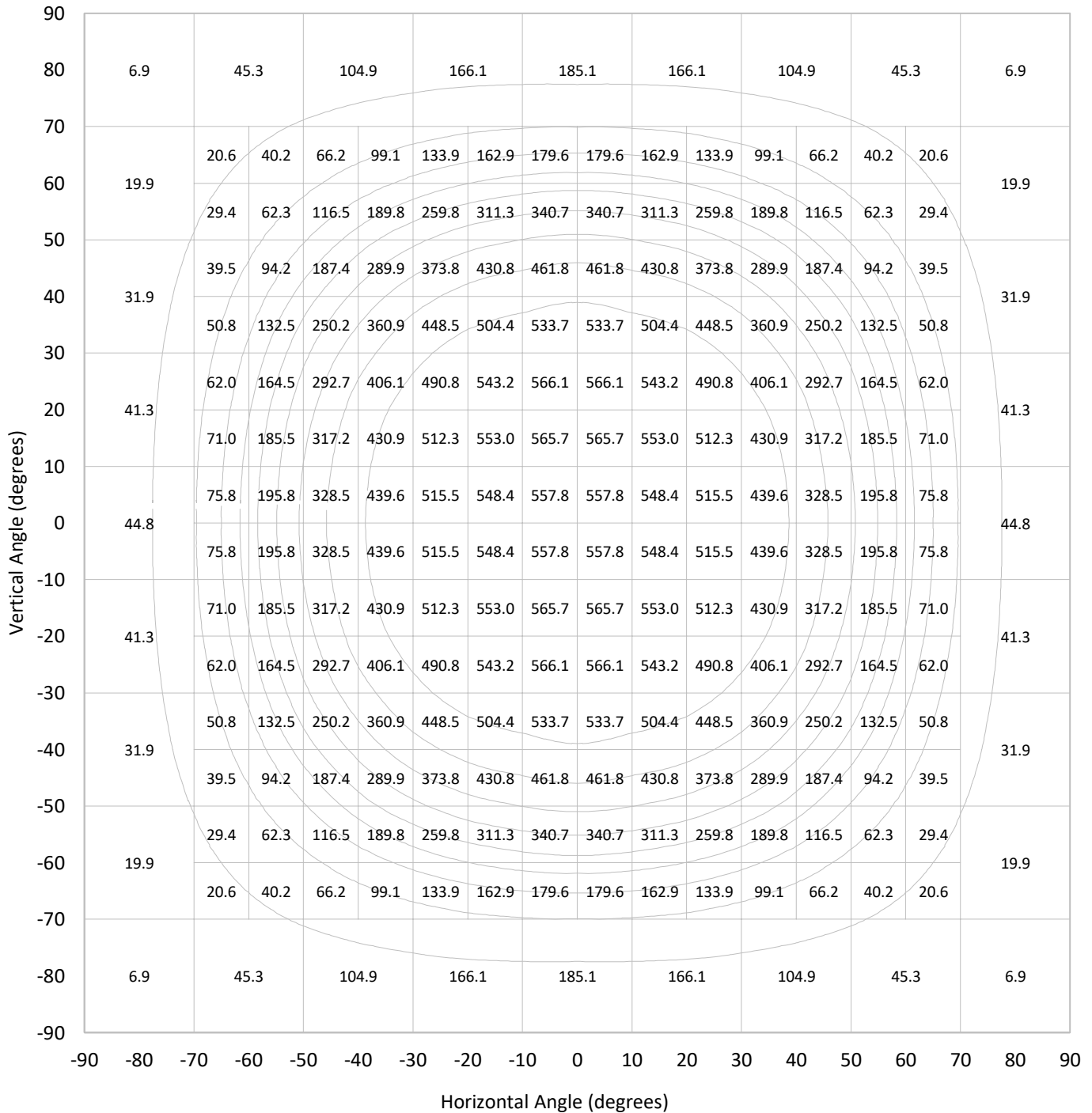
### Iso-Candela Plot





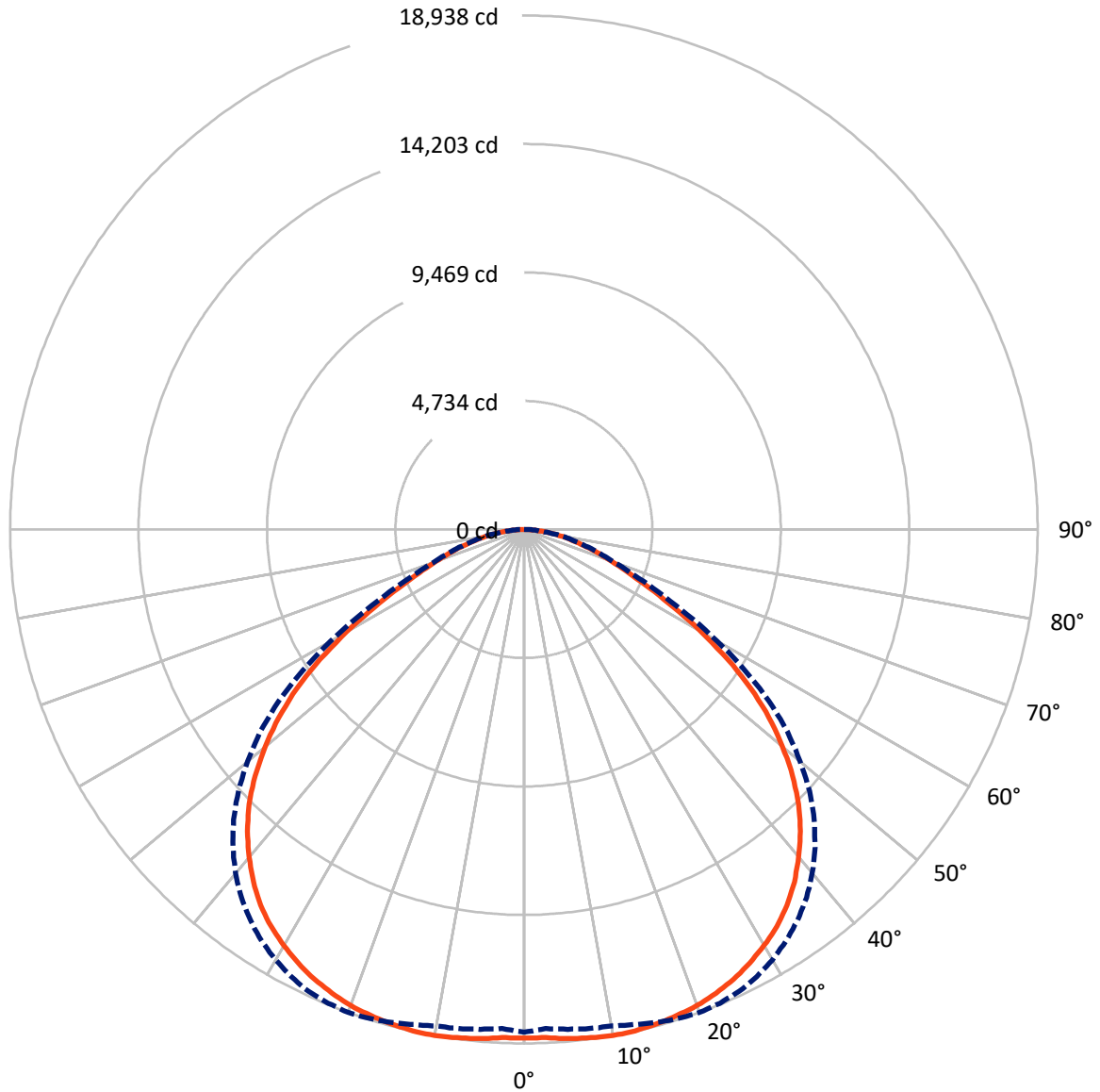
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### Lumen Table



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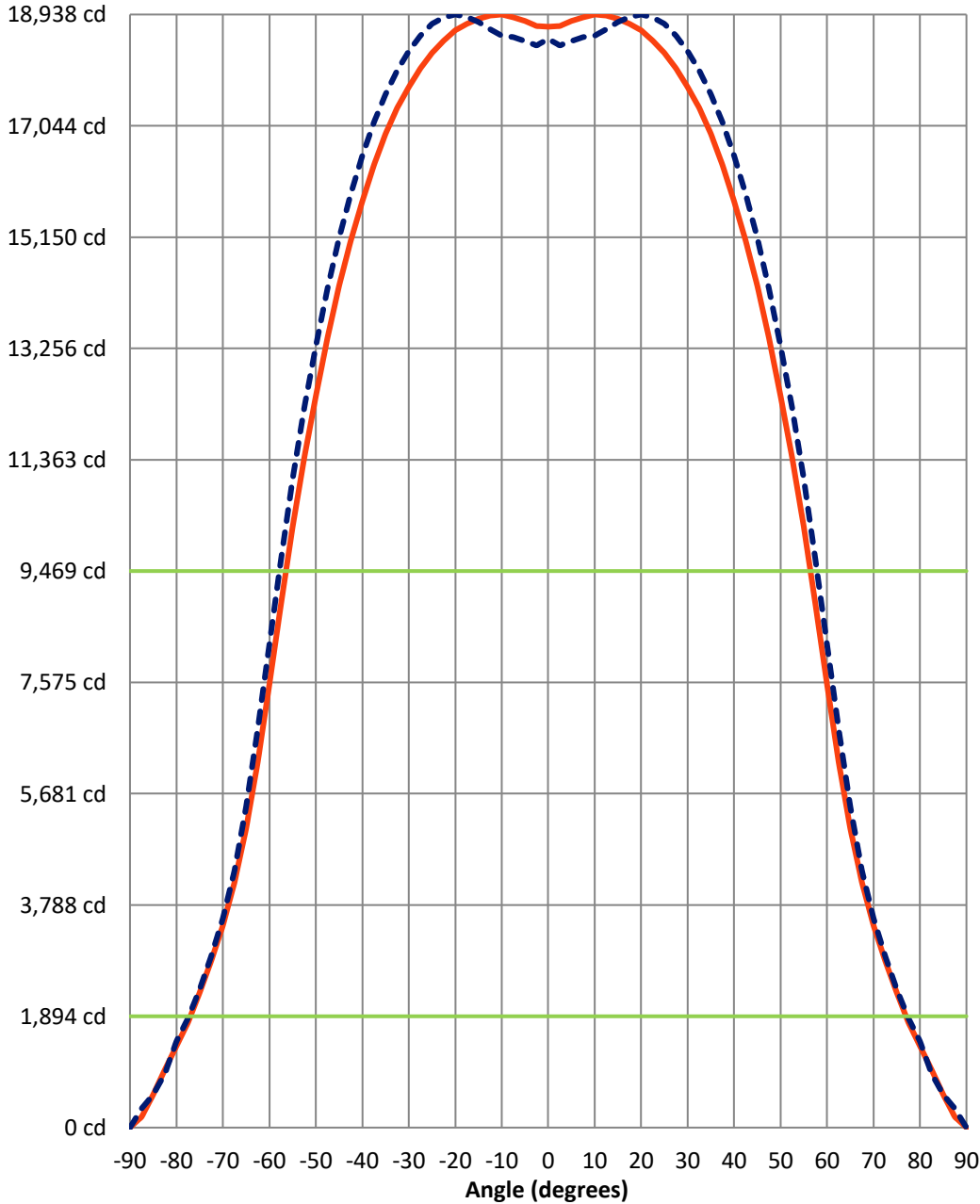
### Luminous Intensity Polar Plot



— 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: 35650.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 42738.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 15359.6  
 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° | 152.8   | 165.0   | 171.2   | 177.3   | 183.4   | 189.5   | 195.6   | 189.5   | 183.4   | 183.4   | 177.3   |
| 85°   | 409.6   | 421.8   | 427.9   | 470.7   | 513.5   | 537.9   | 568.5   | 562.4   | 556.3   | 556.3   | 550.2   |
| 82.5° | 819.1   | 855.8   | 886.4   | 929.2   | 953.6   | 990.3   | 1014.7  | 996.4   | 959.7   | 959.7   | 941.4   |
| 80°   | 1454.9  | 1467.1  | 1473.2  | 1479.3  | 1448.7  | 1442.6  | 1430.4  | 1412.1  | 1357.1  | 1357.1  | 1326.5  |
| 77.5° | 1852.2  | 1864.4  | 1876.7  | 1864.4  | 1858.3  | 1852.2  | 1833.9  | 1815.5  | 1766.6  | 1766.6  | 1729.9  |
| 75°   | 2451.3  | 2451.3  | 2451.3  | 2432.9  | 2420.7  | 2402.4  | 2371.8  | 2341.2  | 2249.5  | 2249.5  | 2194.5  |
| 72.5° | 3087.0  | 3080.9  | 3074.8  | 3038.1  | 3007.5  | 2970.9  | 2928.1  | 2891.4  | 2787.5  | 2787.5  | 2714.1  |
| 70°   | 3753.3  | 3765.5  | 3771.6  | 3722.7  | 3686.1  | 3637.2  | 3582.1  | 3514.9  | 3362.1  | 3362.1  | 3258.2  |
| 67.5° | 4670.2  | 4658.0  | 4645.8  | 4578.5  | 4529.6  | 4462.4  | 4382.9  | 4285.1  | 4052.8  | 4052.8  | 3906.1  |
| 65°   | 5807.2  | 5825.6  | 5788.9  | 5721.6  | 5630.0  | 5519.9  | 5397.7  | 5257.1  | 4908.6  | 4908.6  | 4700.8  |
| 62.5° | 7182.6  | 7213.2  | 7170.4  | 7084.8  | 6968.7  | 6822.0  | 6650.8  | 6449.1  | 5966.2  | 5966.2  | 5709.4  |
| 60°   | 8747.5  | 8741.4  | 8661.9  | 8545.8  | 8393.0  | 8209.6  | 8020.1  | 7800.0  | 7243.7  | 7243.7  | 6932.0  |
| 57.5° | 10184.0 | 10171.8 | 10074.0 | 9957.9  | 9805.0  | 9609.4  | 9407.7  | 9175.4  | 8588.6  | 8588.6  | 8227.9  |
| 55°   | 11473.9 | 11461.6 | 11363.8 | 11241.6 | 11082.6 | 10887.0 | 10703.6 | 10483.6 | 9884.5  | 9884.5  | 9499.4  |
| 52.5° | 12617.0 | 12623.1 | 12537.5 | 12403.0 | 12231.9 | 12042.4 | 11865.1 | 11645.0 | 11058.2 | 11058.2 | 10685.3 |
| 50°   | 13668.4 | 13662.3 | 13570.6 | 13448.3 | 13289.4 | 13106.0 | 12928.7 | 12708.7 | 12121.8 | 12121.8 | 11761.2 |
| 47.5° | 14646.4 | 14634.2 | 14530.3 | 14395.8 | 14230.8 | 14071.8 | 13906.8 | 13711.2 | 13112.1 | 13112.1 | 12751.4 |
| 45°   | 15465.6 | 15441.1 | 15337.2 | 15208.8 | 15049.9 | 14909.3 | 14762.6 | 14615.9 | 14022.9 | 14022.9 | 13680.6 |
| 42.5° | 16168.5 | 16162.4 | 16058.5 | 15930.1 | 15771.2 | 15648.9 | 15514.5 | 15331.1 | 14811.5 | 14811.5 | 14475.3 |
| 40°   | 16841.0 | 16792.1 | 16688.1 | 16565.9 | 16419.2 | 16315.2 | 16180.8 | 15997.4 | 15490.0 | 15490.0 | 15166.0 |
| 37.5° | 17342.2 | 17348.3 | 17238.3 | 17103.8 | 16975.4 | 16877.6 | 16755.4 | 16584.2 | 16113.5 | 16113.5 | 15789.5 |
| 35°   | 17819.0 | 17788.4 | 17696.8 | 17580.6 | 17464.5 | 17354.4 | 17226.1 | 17079.4 | 16663.7 | 16663.7 | 16358.0 |
| 32.5° | 18130.8 | 18173.6 | 18063.5 | 17941.3 | 17874.0 | 17788.4 | 17654.0 | 17501.1 | 17103.8 | 17103.8 | 16828.7 |
| 30°   | 18473.1 | 18436.4 | 18350.8 | 18246.9 | 18198.0 | 18143.0 | 18026.9 | 17880.1 | 17482.8 | 17482.8 | 17226.1 |
| 27.5° | 18711.5 | 18693.2 | 18589.2 | 18491.4 | 18467.0 | 18418.1 | 18326.4 | 18198.0 | 17806.8 | 17806.8 | 17568.4 |
| 25°   | 18815.4 | 18827.6 | 18729.8 | 18674.8 | 18674.8 | 18644.3 | 18570.9 | 18460.9 | 18088.0 | 18088.0 | 17855.7 |
| 22.5° | 18864.3 | 18852.1 | 18784.8 | 18772.6 | 18803.2 | 18778.7 | 18748.2 | 18650.4 | 18332.5 | 18332.5 | 18136.9 |
| 20°   | 18894.9 | 18809.3 | 18748.2 | 18797.1 | 18833.7 | 18827.6 | 18803.2 | 18742.1 | 18534.2 | 18534.2 | 18363.1 |
| 17.5° | 18827.6 | 18772.6 | 18699.3 | 18772.6 | 18852.1 | 18858.2 | 18833.7 | 18797.1 | 18693.2 | 18693.2 | 18540.3 |
| 15°   | 18662.6 | 18619.8 | 18632.0 | 18705.4 | 18797.1 | 18827.6 | 18846.0 | 18888.8 | 18797.1 | 18797.1 | 18662.6 |
| 12.5° | 18552.6 | 18497.5 | 18552.6 | 18625.9 | 18674.8 | 18693.2 | 18839.9 | 18919.3 | 18858.2 | 18858.2 | 18772.6 |
| 10°   | 18522.0 | 18412.0 | 18485.3 | 18552.6 | 18577.0 | 18687.0 | 18809.3 | 18894.9 | 18937.7 | 18888.8 | 18778.7 |
| 7.5°  | 18460.9 | 18387.5 | 18418.1 | 18448.6 | 18589.2 | 18668.7 | 18735.9 | 18827.6 | 18888.8 | 18882.7 | 18784.8 |
| 5°    | 18430.3 | 18338.6 | 18350.8 | 18479.2 | 18577.0 | 18632.0 | 18656.5 | 18735.9 | 18827.6 | 18846.0 | 18772.6 |
| 2.5°  | 18350.8 | 18308.0 | 18399.7 | 18412.0 | 18485.3 | 18528.1 | 18552.6 | 18625.9 | 18742.1 | 18784.8 | 18754.3 |
| 0°    | 18308.0 | 18246.9 | 18185.8 | 18234.7 | 18356.9 | 18448.6 | 18485.3 | 18595.3 | 18729.8 | 18772.6 | 18705.4 |



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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° | 171.2   | 165.0   | 158.9   | 152.8   | 158.9   | 158.9   | 158.9   | 152.8   | 158.9   | 152.8   | 152.8   |
| 85°   | 531.8   | 507.4   | 489.0   | 464.6   | 440.1   | 421.8   | 397.3   | 372.9   | 366.8   | 360.7   | 348.4   |
| 82.5° | 916.9   | 886.4   | 855.8   | 819.1   | 782.4   | 739.7   | 696.9   | 648.0   | 635.7   | 623.5   | 605.2   |
| 80°   | 1289.8  | 1247.0  | 1204.2  | 1161.4  | 1124.8  | 1082.0  | 1033.1  | 978.1   | 941.4   | 910.8   | 874.1   |
| 77.5° | 1681.0  | 1619.9  | 1558.8  | 1485.4  | 1442.6  | 1399.8  | 1350.9  | 1295.9  | 1240.9  | 1192.0  | 1137.0  |
| 75°   | 2127.3  | 2060.0  | 1998.9  | 1925.6  | 1846.1  | 1766.6  | 1687.2  | 1613.8  | 1534.3  | 1461.0  | 1387.6  |
| 72.5° | 2622.4  | 2524.6  | 2426.8  | 2335.1  | 2237.3  | 2139.5  | 2035.6  | 1937.8  | 1840.0  | 1742.2  | 1638.2  |
| 70°   | 3142.0  | 3019.8  | 2897.5  | 2775.2  | 2646.9  | 2518.5  | 2396.2  | 2274.0  | 2151.7  | 2023.4  | 1907.2  |
| 67.5° | 3753.3  | 3612.7  | 3453.8  | 3282.6  | 3093.1  | 2928.1  | 2769.1  | 2622.4  | 2475.7  | 2329.0  | 2182.3  |
| 65°   | 4517.4  | 4321.8  | 4107.8  | 3875.6  | 3655.5  | 3435.4  | 3203.1  | 2983.1  | 2811.9  | 2640.8  | 2475.7  |
| 62.5° | 5458.8  | 5183.7  | 4884.2  | 4584.7  | 4315.7  | 4028.4  | 3759.4  | 3472.1  | 3203.1  | 2958.6  | 2756.9  |
| 60°   | 6583.6  | 6210.7  | 5843.9  | 5458.8  | 5085.9  | 4694.7  | 4352.4  | 3997.8  | 3661.6  | 3362.1  | 3068.7  |
| 57.5° | 7824.5  | 7390.5  | 6950.3  | 6479.6  | 5972.3  | 5513.8  | 5049.2  | 4584.7  | 4187.3  | 3790.0  | 3459.9  |
| 55°   | 9083.7  | 8625.3  | 8130.1  | 7598.3  | 7042.0  | 6455.2  | 5825.6  | 5306.0  | 4761.9  | 4297.3  | 3869.4  |
| 52.5° | 10281.8 | 9805.0  | 9291.6  | 8802.5  | 8136.2  | 7463.8  | 6773.1  | 6088.4  | 5452.7  | 4859.7  | 4340.1  |
| 50°   | 11351.6 | 10887.0 | 10391.9 | 9823.4  | 9206.0  | 8490.8  | 7720.6  | 6950.3  | 6198.4  | 5501.6  | 4853.6  |
| 47.5° | 12329.7 | 11877.3 | 11382.2 | 10813.7 | 10251.3 | 9456.6  | 8680.3  | 7830.6  | 6993.1  | 6192.3  | 5434.3  |
| 45°   | 13246.6 | 12788.1 | 12274.6 | 11730.6 | 11082.6 | 10373.5 | 9572.8  | 8717.0  | 7818.4  | 6919.8  | 6045.6  |
| 42.5° | 14077.9 | 13619.5 | 13099.9 | 12537.5 | 11895.6 | 11192.7 | 10416.3 | 9554.4  | 8649.7  | 7671.7  | 6711.9  |
| 40°   | 14805.4 | 14359.1 | 13857.9 | 13271.0 | 12672.0 | 11932.3 | 11168.2 | 10349.1 | 9413.8  | 8429.6  | 7372.1  |
| 37.5° | 15441.1 | 15025.4 | 14530.3 | 13949.6 | 13313.8 | 12653.6 | 11865.1 | 11046.0 | 10202.4 | 9132.6  | 8050.6  |
| 35°   | 16003.5 | 15618.4 | 15111.0 | 14560.9 | 13937.3 | 13240.5 | 12500.8 | 11700.0 | 10789.2 | 9786.7  | 8735.3  |
| 32.5° | 16492.5 | 16101.3 | 15636.7 | 15086.6 | 14481.4 | 13827.3 | 13069.3 | 12262.4 | 11400.5 | 10379.7 | 9236.5  |
| 30°   | 16908.2 | 16529.2 | 16089.1 | 15569.5 | 14988.8 | 14340.8 | 13601.1 | 12788.1 | 11907.9 | 10893.1 | 9762.3  |
| 27.5° | 17268.9 | 16908.2 | 16480.3 | 15997.4 | 15441.1 | 14817.6 | 14071.8 | 13252.7 | 12354.1 | 11376.0 | 10245.2 |
| 25°   | 17580.6 | 17232.2 | 16834.8 | 16376.4 | 15826.2 | 15214.9 | 14512.0 | 13656.1 | 12757.6 | 11773.4 | 10654.7 |
| 22.5° | 17861.8 | 17525.6 | 17128.3 | 16682.0 | 16180.8 | 15569.5 | 14860.4 | 14010.7 | 13099.9 | 12127.9 | 11027.6 |
| 20°   | 18112.4 | 17800.7 | 17409.5 | 16951.0 | 16449.7 | 15832.3 | 15129.4 | 14322.5 | 13405.5 | 12451.9 | 11363.8 |
| 17.5° | 18314.2 | 18039.1 | 17647.9 | 17164.9 | 16663.7 | 16064.6 | 15380.0 | 14640.3 | 13668.4 | 12727.0 | 11645.0 |
| 15°   | 18454.8 | 18185.8 | 17831.2 | 17342.2 | 16853.2 | 16260.2 | 15575.6 | 14811.5 | 13906.8 | 12947.1 | 11877.3 |
| 12.5° | 18552.6 | 18265.3 | 17935.2 | 17482.8 | 16993.8 | 16406.9 | 15740.6 | 14988.8 | 14108.5 | 13142.7 | 12079.0 |
| 10°   | 18577.0 | 18314.2 | 17984.1 | 17580.6 | 17103.8 | 16535.3 | 15881.2 | 15135.5 | 14273.5 | 13295.5 | 12244.1 |
| 7.5°  | 18589.2 | 18338.6 | 18039.1 | 17654.0 | 17183.3 | 16633.1 | 15985.2 | 15251.6 | 14395.8 | 13423.9 | 12366.3 |
| 5°    | 18583.1 | 18344.7 | 18075.8 | 17702.9 | 17232.2 | 16688.1 | 16052.4 | 15331.1 | 14481.4 | 13509.4 | 12458.0 |
| 2.5°  | 18564.8 | 18350.8 | 18100.2 | 17739.5 | 17287.2 | 16749.3 | 16119.6 | 15422.8 | 14573.1 | 13582.8 | 12531.4 |
| 0°    | 18613.7 | 18430.3 | 18112.4 | 17727.3 | 17299.4 | 16749.3 | 16113.5 | 15435.0 | 14585.3 | 13576.7 | 12525.3 |





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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° | 152.8   | 146.7  | 146.7  | 140.6  | 134.5  | 128.4  | 116.1  | 110.0  | 97.8   | 79.5   | 61.1   |
| 85°   | 330.1   | 311.8  | 293.4  | 281.2  | 269.0  | 256.7  | 238.4  | 220.1  | 195.6  | 158.9  | 122.3  |
| 82.5° | 580.7   | 544.0  | 507.4  | 464.6  | 427.9  | 391.2  | 360.7  | 330.1  | 293.4  | 238.4  | 183.4  |
| 80°   | 831.4   | 776.3  | 721.3  | 660.2  | 605.2  | 544.0  | 489.0  | 440.1  | 391.2  | 317.9  | 244.5  |
| 77.5° | 1082.0  | 1008.6 | 929.2  | 855.8  | 776.3  | 696.9  | 617.4  | 550.2  | 476.8  | 391.2  | 305.6  |
| 75°   | 1314.3  | 1228.7 | 1155.3 | 1051.4 | 953.6  | 849.7  | 745.8  | 654.1  | 562.4  | 458.5  | 366.8  |
| 72.5° | 1546.6  | 1436.5 | 1332.6 | 1234.8 | 1124.8 | 996.4  | 880.3  | 764.1  | 648.0  | 525.7  | 415.7  |
| 70°   | 1778.8  | 1644.4 | 1516.0 | 1399.8 | 1277.6 | 1149.2 | 1008.6 | 874.1  | 733.5  | 586.8  | 458.5  |
| 67.5° | 2017.2  | 1864.4 | 1717.7 | 1571.0 | 1430.4 | 1283.7 | 1137.0 | 984.2  | 819.1  | 648.0  | 507.4  |
| 65°   | 2280.1  | 2090.6 | 1913.3 | 1748.3 | 1583.2 | 1424.3 | 1259.3 | 1094.2 | 910.8  | 715.2  | 550.2  |
| 62.5° | 2543.0  | 2335.1 | 2127.3 | 1919.4 | 1736.1 | 1558.8 | 1381.5 | 1198.1 | 996.4  | 788.6  | 592.9  |
| 60°   | 2824.1  | 2585.7 | 2347.3 | 2115.1 | 1888.9 | 1693.3 | 1497.7 | 1302.0 | 1088.1 | 855.8  | 635.7  |
| 57.5° | 3135.9  | 2848.6 | 2579.6 | 2316.8 | 2060.0 | 1827.7 | 1613.8 | 1406.0 | 1167.6 | 923.0  | 684.6  |
| 55°   | 3490.4  | 3135.9 | 2818.0 | 2524.6 | 2243.4 | 1962.2 | 1729.9 | 1516.0 | 1259.3 | 990.3  | 739.7  |
| 52.5° | 3863.3  | 3453.8 | 3068.7 | 2738.6 | 2439.0 | 2121.2 | 1840.0 | 1601.6 | 1350.9 | 1057.5 | 788.6  |
| 50°   | 4297.3  | 3777.8 | 3349.9 | 2946.4 | 2610.2 | 2280.1 | 1956.1 | 1699.4 | 1442.6 | 1137.0 | 837.5  |
| 47.5° | 4743.6  | 4169.0 | 3631.0 | 3190.9 | 2793.6 | 2432.9 | 2090.6 | 1785.0 | 1528.2 | 1210.3 | 886.4  |
| 45°   | 5263.2  | 4541.9 | 3948.9 | 3429.3 | 2970.9 | 2591.9 | 2225.1 | 1876.7 | 1601.6 | 1283.7 | 935.3  |
| 42.5° | 5764.4  | 4982.0 | 4279.0 | 3692.2 | 3172.6 | 2744.7 | 2347.3 | 1974.5 | 1674.9 | 1357.1 | 978.1  |
| 40°   | 6357.4  | 5422.1 | 4596.9 | 3942.8 | 3374.3 | 2891.4 | 2469.6 | 2078.4 | 1742.2 | 1424.3 | 1020.8 |
| 37.5° | 6925.9  | 5868.4 | 4982.0 | 4217.9 | 3569.9 | 3038.1 | 2591.9 | 2176.2 | 1803.3 | 1491.5 | 1075.9 |
| 35°   | 7488.3  | 6363.5 | 5348.8 | 4474.6 | 3771.6 | 3203.1 | 2714.1 | 2267.9 | 1864.4 | 1546.6 | 1124.8 |
| 32.5° | 8026.2  | 6828.1 | 5721.6 | 4761.9 | 3991.7 | 3356.0 | 2824.1 | 2353.5 | 1925.6 | 1595.5 | 1173.7 |
| 30°   | 8527.5  | 7268.2 | 6088.4 | 5055.3 | 4193.4 | 3496.6 | 2928.1 | 2439.0 | 1998.9 | 1638.2 | 1222.6 |
| 27.5° | 8985.9  | 7696.1 | 6455.2 | 5330.4 | 4382.9 | 3624.9 | 3038.1 | 2518.5 | 2060.0 | 1681.0 | 1265.4 |
| 25°   | 9401.6  | 8081.2 | 6791.4 | 5581.0 | 4554.1 | 3765.5 | 3142.0 | 2598.0 | 2115.1 | 1717.7 | 1302.0 |
| 22.5° | 9792.8  | 8435.8 | 7097.0 | 5831.7 | 4761.9 | 3906.1 | 3239.8 | 2671.3 | 2170.1 | 1754.4 | 1338.7 |
| 20°   | 10135.1 | 8759.7 | 7390.5 | 6082.3 | 4945.3 | 4034.5 | 3325.4 | 2738.6 | 2219.0 | 1778.8 | 1375.4 |
| 17.5° | 10410.2 | 9047.0 | 7653.3 | 6302.4 | 5104.2 | 4144.5 | 3398.8 | 2799.7 | 2261.8 | 1809.4 | 1399.8 |
| 15°   | 10654.7 | 9291.6 | 7873.4 | 6491.9 | 5244.8 | 4236.2 | 3466.0 | 2848.6 | 2298.4 | 1827.7 | 1430.4 |
| 12.5° | 10862.6 | 9499.4 | 8062.9 | 6656.9 | 5367.1 | 4315.7 | 3521.0 | 2885.3 | 2329.0 | 1846.1 | 1448.7 |
| 10°   | 11033.7 | 9664.4 | 8221.8 | 6785.3 | 5464.9 | 4376.8 | 3563.8 | 2922.0 | 2353.5 | 1864.4 | 1467.1 |
| 7.5°  | 11162.1 | 9786.7 | 8338.0 | 6895.3 | 5544.4 | 4419.6 | 3600.5 | 2946.4 | 2377.9 | 1876.7 | 1497.7 |
| 5°    | 11259.9 | 9890.6 | 8429.6 | 6968.7 | 5605.5 | 4480.7 | 3643.3 | 2977.0 | 2402.4 | 1888.9 | 1497.7 |
| 2.5°  | 11333.3 | 9976.2 | 8503.0 | 7029.8 | 5654.4 | 4468.5 | 3643.3 | 2970.9 | 2402.4 | 1888.9 | 1491.5 |
| 0°    | 11321.0 | 9982.3 | 8496.9 | 7029.8 | 5654.4 | 4456.3 | 3643.3 | 2964.7 | 2402.4 | 1888.9 | 1491.5 |



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