

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: P628159

Luminaire Tested: **IFLD-S-SA3E-722-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628159  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-722-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

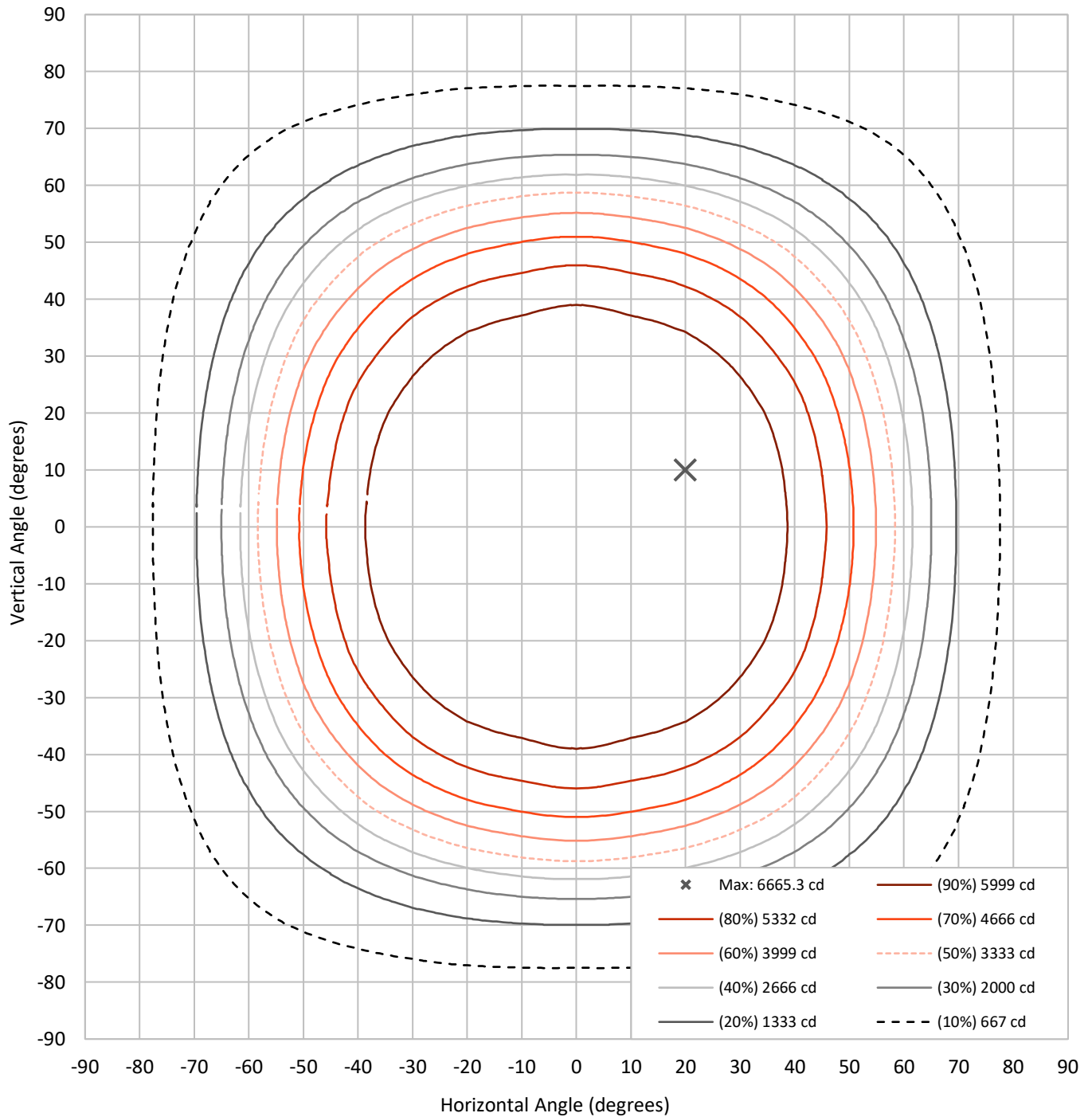
**Summary**

|                                   |  |                      |                 |
|-----------------------------------|--|----------------------|-----------------|
| Lumens per Lamp:                  | N/A                                    | NEMA Type:           | 7H x 7V         |
| Luminaire Lumens:                 | 20448.1 lumens                         | Max Intensity:       | 6665.3 candela  |
| Efficiency:                       | N/A                                    | Max Intensity Angle: | 20°H x 10°V     |
| Efficacy:                         | 88.1 lumens/watt                       |                      |                 |
| Luminous Opening:                 | Rectangular (W 1.5' x L: 0.5' x H: 0') |                      |                 |
| Beam Angle (50%):                 | 115.7°H x 112.9°V                      | Field Angle (10%):   | 154.7°H x 154°V |
| Beam Lumens:                      | 12547.4 lumens                         | Field Lumens:        | 15042.2 lumens  |
| Beam Efficiency:                  | 61.4%                                  | Field Efficiency:    | 73.6%           |
| Input Watts (W):                  | 232.1                                  |                      |                 |
| 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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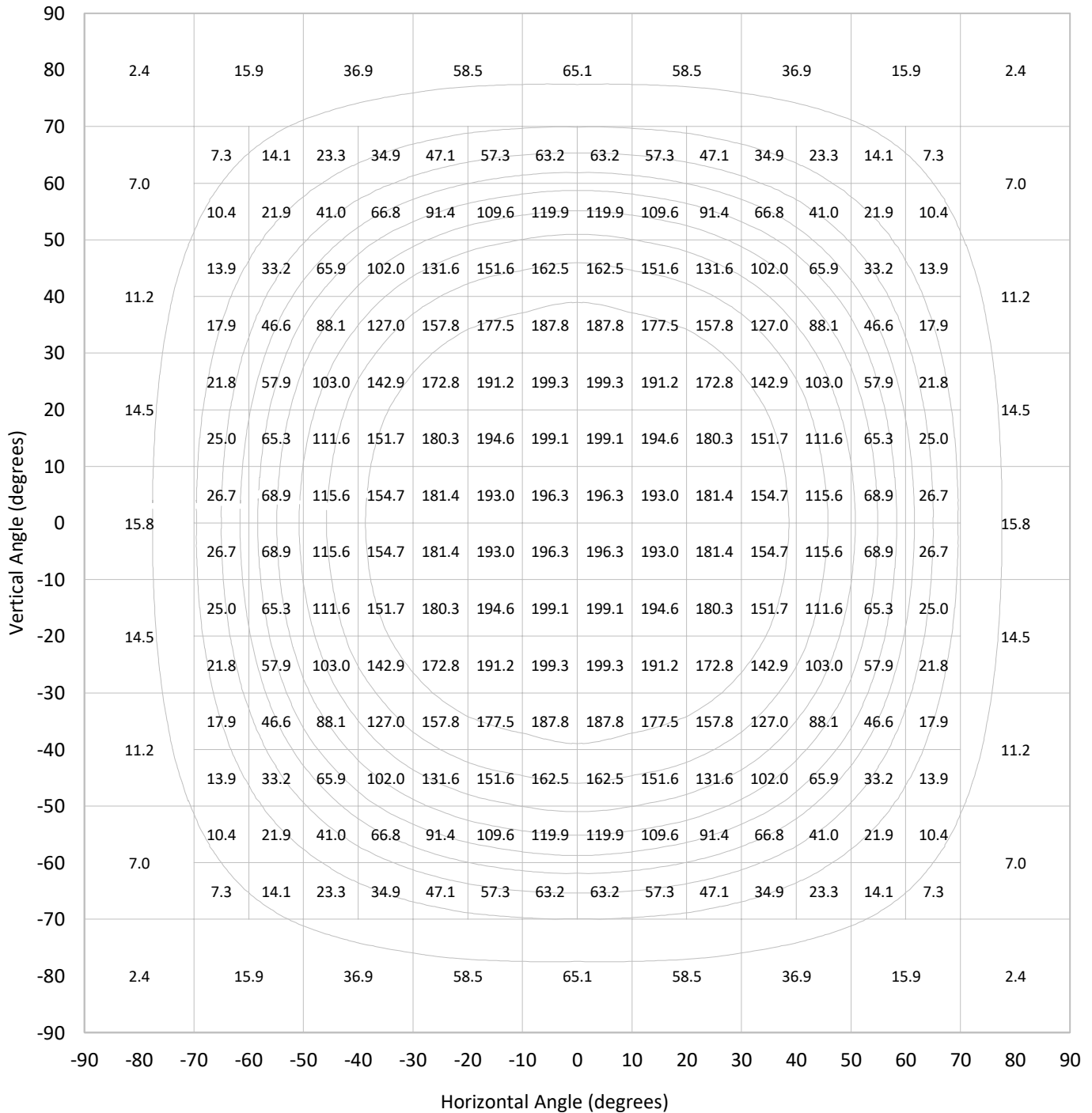
### Iso-Candela Plot





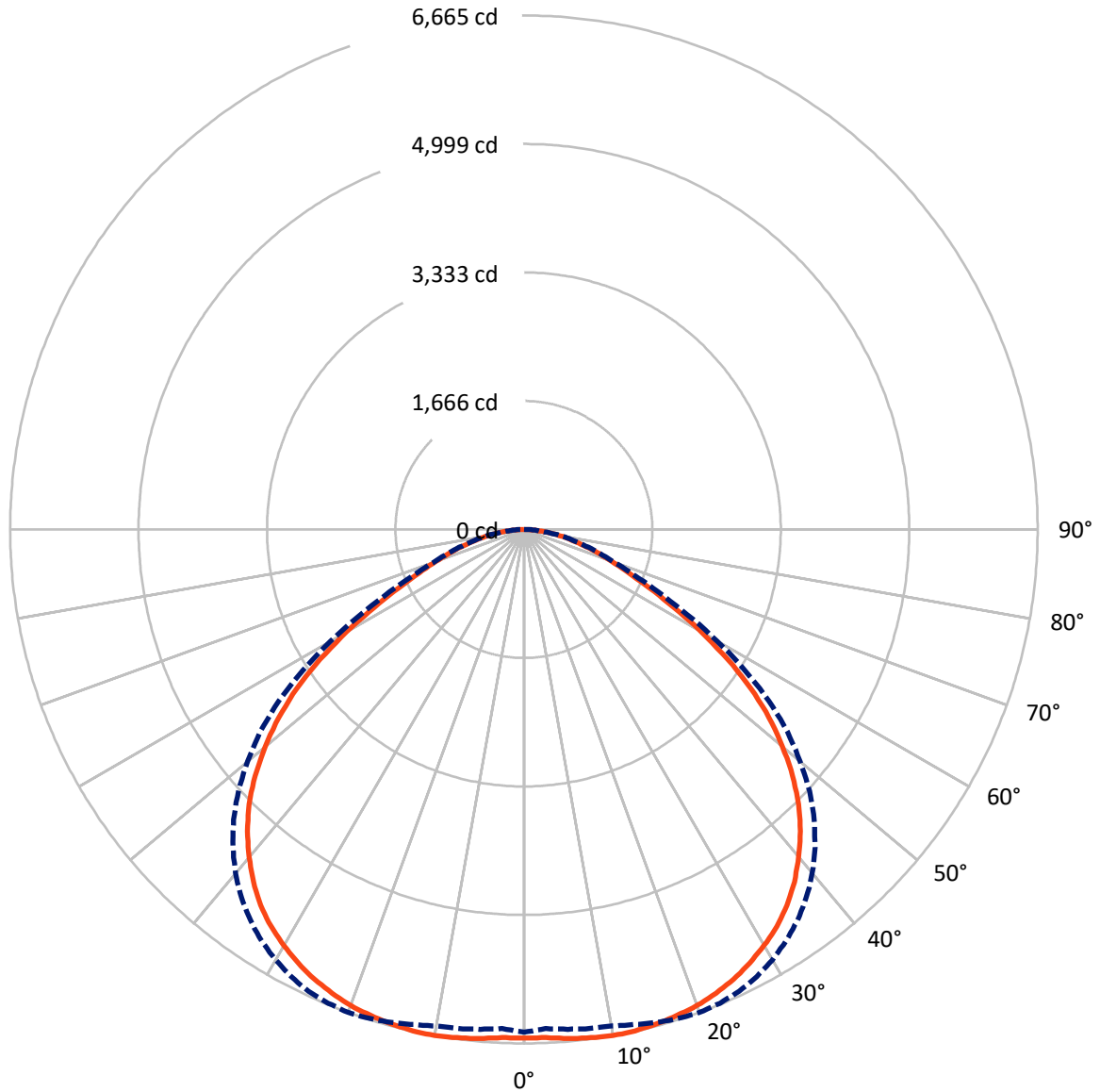
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### Lumen Table



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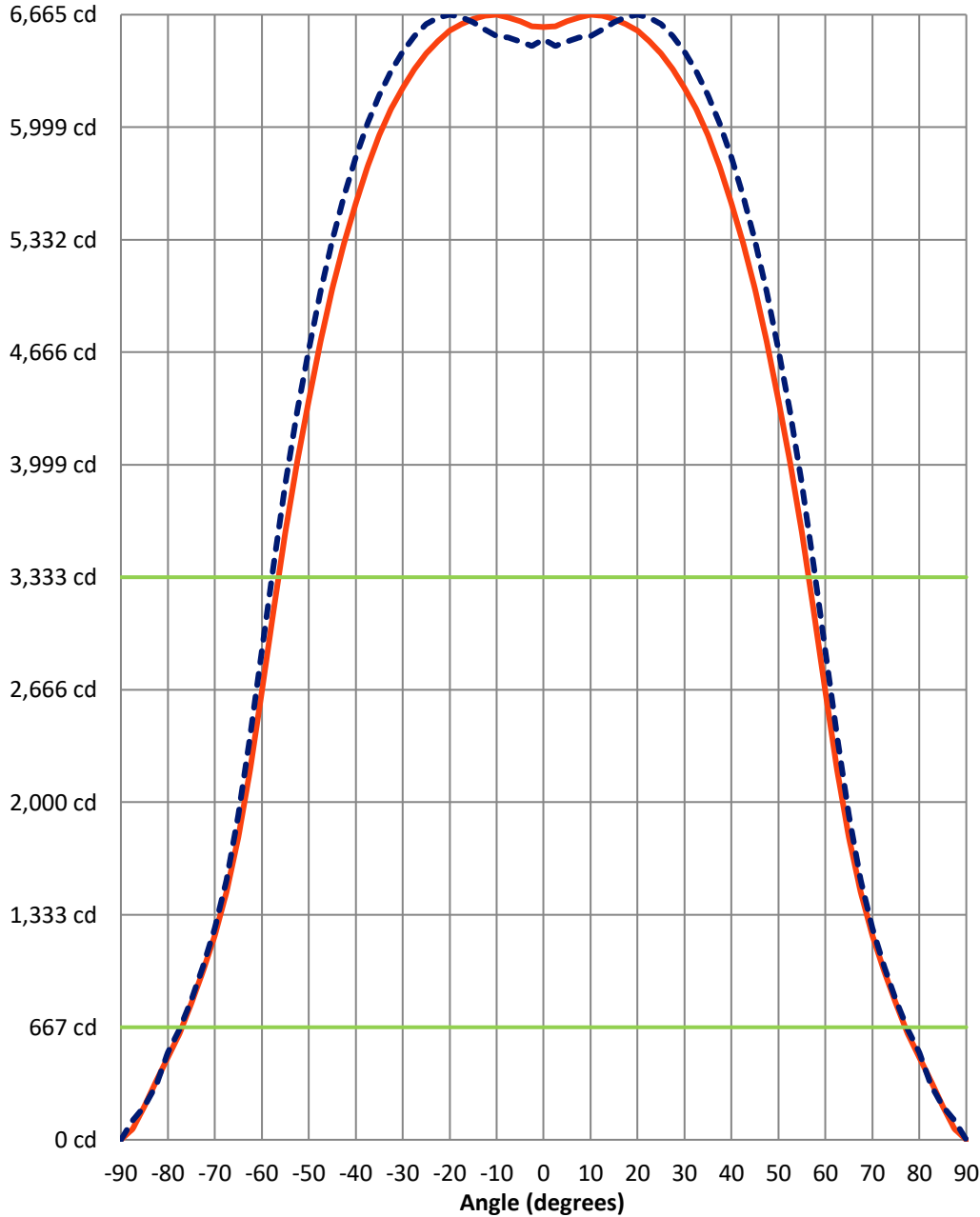
### Luminous Intensity Polar Plot



— 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: 12547.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 15042.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5405.9  
 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° | 53.8   | 58.1   | 60.2   | 62.4   | 64.5   | 66.7   | 68.8   | 66.7   | 64.5   | 64.5   | 62.4   |
| 85°   | 144.1  | 148.5  | 150.6  | 165.7  | 180.7  | 189.3  | 200.1  | 197.9  | 197.9  | 195.8  | 193.6  |
| 82.5° | 288.3  | 301.2  | 312.0  | 327.0  | 335.6  | 348.5  | 357.1  | 350.7  | 346.4  | 337.8  | 331.3  |
| 80°   | 512.1  | 516.4  | 518.5  | 520.7  | 509.9  | 507.7  | 503.4  | 497.0  | 488.4  | 477.6  | 466.9  |
| 77.5° | 651.9  | 656.2  | 660.5  | 656.2  | 654.0  | 651.9  | 645.4  | 639.0  | 630.4  | 621.8  | 608.9  |
| 75°   | 862.7  | 862.7  | 862.7  | 856.3  | 852.0  | 845.5  | 834.8  | 824.0  | 809.0  | 791.7  | 772.4  |
| 72.5° | 1086.5 | 1084.3 | 1082.2 | 1069.3 | 1058.5 | 1045.6 | 1030.6 | 1017.6 | 1000.4 | 981.1  | 955.3  |
| 70°   | 1321.0 | 1325.3 | 1327.5 | 1310.2 | 1297.3 | 1280.1 | 1260.8 | 1237.1 | 1211.3 | 1183.3 | 1146.7 |
| 67.5° | 1643.7 | 1639.4 | 1635.1 | 1611.5 | 1594.2 | 1570.6 | 1542.6 | 1508.2 | 1469.5 | 1426.4 | 1374.8 |
| 65°   | 2043.9 | 2050.4 | 2037.4 | 2013.8 | 1981.5 | 1942.8 | 1899.8 | 1850.3 | 1792.2 | 1727.6 | 1654.5 |
| 62.5° | 2528.0 | 2538.7 | 2523.7 | 2493.6 | 2452.7 | 2401.0 | 2340.8 | 2269.8 | 2190.2 | 2099.8 | 2009.5 |
| 60°   | 3078.8 | 3076.6 | 3048.6 | 3007.8 | 2954.0 | 2889.4 | 2822.7 | 2745.3 | 2654.9 | 2549.5 | 2439.8 |
| 57.5° | 3584.4 | 3580.1 | 3545.6 | 3504.8 | 3451.0 | 3382.1 | 3311.1 | 3229.4 | 3134.7 | 3022.8 | 2895.9 |
| 55°   | 4038.3 | 4034.0 | 3999.6 | 3956.6 | 3900.6 | 3831.8 | 3767.2 | 3689.8 | 3597.3 | 3478.9 | 3343.4 |
| 52.5° | 4440.6 | 4442.8 | 4412.7 | 4365.3 | 4305.1 | 4238.4 | 4176.0 | 4098.6 | 4010.4 | 3892.0 | 3760.8 |
| 50°   | 4810.7 | 4808.6 | 4776.3 | 4733.2 | 4677.3 | 4612.8 | 4550.4 | 4472.9 | 4380.4 | 4266.4 | 4139.4 |
| 47.5° | 5154.9 | 5150.6 | 5114.1 | 5066.7 | 5008.6 | 4952.7 | 4894.6 | 4825.8 | 4728.9 | 4614.9 | 4488.0 |
| 45°   | 5443.2 | 5434.6 | 5398.1 | 5352.9 | 5296.9 | 5247.5 | 5195.8 | 5144.2 | 5040.9 | 4935.5 | 4815.0 |
| 42.5° | 5690.7 | 5688.5 | 5651.9 | 5606.7 | 5550.8 | 5507.8 | 5460.4 | 5395.9 | 5309.8 | 5213.0 | 5094.7 |
| 40°   | 5927.3 | 5910.1 | 5873.5 | 5830.5 | 5778.9 | 5742.3 | 5695.0 | 5630.4 | 5546.5 | 5451.8 | 5337.8 |
| 37.5° | 6103.7 | 6105.9 | 6067.2 | 6019.8 | 5974.7 | 5940.2 | 5897.2 | 5837.0 | 5763.8 | 5671.3 | 5557.3 |
| 35°   | 6271.6 | 6260.8 | 6228.5 | 6187.6 | 6146.8 | 6108.0 | 6062.9 | 6011.2 | 5951.0 | 5864.9 | 5757.4 |
| 32.5° | 6381.3 | 6396.3 | 6357.6 | 6314.6 | 6290.9 | 6260.8 | 6213.5 | 6159.7 | 6105.9 | 6019.8 | 5923.0 |
| 30°   | 6501.8 | 6488.9 | 6458.7 | 6422.2 | 6404.9 | 6385.6 | 6344.7 | 6293.1 | 6230.7 | 6153.2 | 6062.9 |
| 27.5° | 6585.7 | 6579.2 | 6542.6 | 6508.2 | 6499.6 | 6482.4 | 6450.1 | 6404.9 | 6342.6 | 6267.3 | 6183.3 |
| 25°   | 6622.2 | 6626.5 | 6592.1 | 6572.8 | 6572.8 | 6562.0 | 6536.2 | 6497.5 | 6435.1 | 6366.2 | 6284.5 |
| 22.5° | 6639.5 | 6635.2 | 6611.5 | 6607.2 | 6617.9 | 6609.3 | 6598.6 | 6564.2 | 6508.2 | 6452.3 | 6383.4 |
| 20°   | 6650.2 | 6620.1 | 6598.6 | 6615.8 | 6628.7 | 6626.5 | 6617.9 | 6596.4 | 6570.6 | 6523.3 | 6463.0 |
| 17.5° | 6626.5 | 6607.2 | 6581.4 | 6607.2 | 6635.2 | 6637.3 | 6628.7 | 6615.8 | 6609.3 | 6579.2 | 6525.4 |
| 15°   | 6568.5 | 6553.4 | 6557.7 | 6583.5 | 6615.8 | 6626.5 | 6633.0 | 6648.1 | 6639.5 | 6615.8 | 6568.5 |
| 12.5° | 6529.7 | 6510.4 | 6529.7 | 6555.5 | 6572.8 | 6579.2 | 6630.9 | 6658.8 | 6658.8 | 6637.3 | 6607.2 |
| 10°   | 6519.0 | 6480.2 | 6506.1 | 6529.7 | 6538.3 | 6577.1 | 6620.1 | 6650.2 | 6665.3 | 6648.1 | 6609.3 |
| 7.5°  | 6497.5 | 6471.6 | 6482.4 | 6493.2 | 6542.6 | 6570.6 | 6594.3 | 6626.5 | 6648.1 | 6645.9 | 6611.5 |
| 5°    | 6486.7 | 6454.4 | 6458.7 | 6503.9 | 6538.3 | 6557.7 | 6566.3 | 6594.3 | 6626.5 | 6633.0 | 6607.2 |
| 2.5°  | 6458.7 | 6443.7 | 6475.9 | 6480.2 | 6506.1 | 6521.1 | 6529.7 | 6555.5 | 6596.4 | 6611.5 | 6600.7 |
| 0°    | 6443.7 | 6422.2 | 6400.6 | 6417.9 | 6460.9 | 6493.2 | 6506.1 | 6544.8 | 6592.1 | 6607.2 | 6583.5 |



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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° | 60.2   | 58.1   | 55.9   | 53.8   | 55.9   | 55.9   | 55.9   | 53.8   | 55.9   | 53.8   | 53.8   |
| 85°   | 187.2  | 178.6  | 172.1  | 163.5  | 154.9  | 148.5  | 139.8  | 131.2  | 129.1  | 126.9  | 122.6  |
| 82.5° | 322.7  | 312.0  | 301.2  | 288.3  | 275.4  | 260.3  | 245.3  | 228.1  | 223.8  | 219.5  | 213.0  |
| 80°   | 454.0  | 438.9  | 423.8  | 408.8  | 395.9  | 380.8  | 363.6  | 344.2  | 331.3  | 320.6  | 307.7  |
| 77.5° | 591.7  | 570.1  | 548.6  | 522.8  | 507.7  | 492.7  | 475.5  | 456.1  | 436.7  | 419.5  | 400.2  |
| 75°   | 748.7  | 725.0  | 703.5  | 677.7  | 649.7  | 621.8  | 593.8  | 568.0  | 540.0  | 514.2  | 488.4  |
| 72.5° | 923.0  | 888.6  | 854.1  | 821.9  | 787.4  | 753.0  | 716.4  | 682.0  | 647.6  | 613.2  | 576.6  |
| 70°   | 1105.9 | 1062.8 | 1019.8 | 976.8  | 931.6  | 886.4  | 843.4  | 800.3  | 757.3  | 712.1  | 671.3  |
| 67.5° | 1321.0 | 1271.5 | 1215.6 | 1155.3 | 1088.6 | 1030.6 | 974.6  | 923.0  | 871.3  | 819.7  | 768.1  |
| 65°   | 1589.9 | 1521.1 | 1445.8 | 1364.0 | 1286.6 | 1209.1 | 1127.4 | 1049.9 | 989.7  | 929.4  | 871.3  |
| 62.5° | 1921.3 | 1824.5 | 1719.0 | 1613.6 | 1518.9 | 1417.8 | 1323.2 | 1222.0 | 1127.4 | 1041.3 | 970.3  |
| 60°   | 2317.1 | 2185.9 | 2056.8 | 1921.3 | 1790.0 | 1652.3 | 1531.9 | 1407.1 | 1288.7 | 1183.3 | 1080.0 |
| 57.5° | 2753.9 | 2601.1 | 2446.2 | 2280.6 | 2102.0 | 1940.6 | 1777.1 | 1613.6 | 1473.8 | 1333.9 | 1217.7 |
| 55°   | 3197.1 | 3035.7 | 2861.5 | 2674.3 | 2478.5 | 2272.0 | 2050.4 | 1867.5 | 1676.0 | 1512.5 | 1361.9 |
| 52.5° | 3618.8 | 3451.0 | 3270.2 | 3098.1 | 2863.6 | 2627.0 | 2383.8 | 2142.9 | 1919.1 | 1710.4 | 1527.5 |
| 50°   | 3995.3 | 3831.8 | 3657.5 | 3457.4 | 3240.1 | 2988.4 | 2717.3 | 2446.2 | 2181.6 | 1936.3 | 1708.3 |
| 47.5° | 4339.5 | 4180.3 | 4006.0 | 3806.0 | 3608.0 | 3328.3 | 3055.1 | 2756.0 | 2461.3 | 2179.4 | 1912.7 |
| 45°   | 4662.2 | 4500.9 | 4320.2 | 4128.7 | 3900.6 | 3651.1 | 3369.2 | 3068.0 | 2751.7 | 2435.5 | 2127.8 |
| 42.5° | 4954.9 | 4793.5 | 4610.6 | 4412.7 | 4186.8 | 3939.4 | 3666.1 | 3362.8 | 3044.3 | 2700.1 | 2362.3 |
| 40°   | 5210.9 | 5053.8 | 4877.4 | 4670.9 | 4460.0 | 4199.7 | 3930.7 | 3642.4 | 3313.3 | 2966.9 | 2594.7 |
| 37.5° | 5434.6 | 5288.3 | 5114.1 | 4909.7 | 4685.9 | 4453.6 | 4176.0 | 3887.7 | 3590.8 | 3214.3 | 2833.5 |
| 35°   | 5632.6 | 5497.0 | 5318.5 | 5124.8 | 4905.4 | 4660.1 | 4399.8 | 4117.9 | 3797.4 | 3444.5 | 3074.5 |
| 32.5° | 5804.7 | 5667.0 | 5503.5 | 5309.8 | 5096.8 | 4866.6 | 4599.9 | 4315.9 | 4012.5 | 3653.2 | 3250.9 |
| 30°   | 5951.0 | 5817.6 | 5662.7 | 5479.8 | 5275.4 | 5047.4 | 4787.0 | 4500.9 | 4191.1 | 3833.9 | 3435.9 |
| 27.5° | 6077.9 | 5951.0 | 5800.4 | 5630.4 | 5434.6 | 5215.2 | 4952.7 | 4664.4 | 4348.1 | 4003.9 | 3605.9 |
| 25°   | 6187.6 | 6065.0 | 5925.2 | 5763.8 | 5570.2 | 5355.0 | 5107.6 | 4806.4 | 4490.1 | 4143.7 | 3750.0 |
| 22.5° | 6286.6 | 6168.3 | 6028.4 | 5871.4 | 5695.0 | 5479.8 | 5230.2 | 4931.2 | 4610.6 | 4268.5 | 3881.3 |
| 20°   | 6374.8 | 6265.1 | 6127.4 | 5966.0 | 5789.6 | 5572.3 | 5324.9 | 5040.9 | 4718.2 | 4382.6 | 3999.6 |
| 17.5° | 6445.8 | 6349.0 | 6211.3 | 6041.3 | 5864.9 | 5654.1 | 5413.1 | 5152.8 | 4810.7 | 4479.4 | 4098.6 |
| 15°   | 6495.3 | 6400.6 | 6275.9 | 6103.7 | 5931.6 | 5722.9 | 5482.0 | 5213.0 | 4894.6 | 4556.8 | 4180.3 |
| 12.5° | 6529.7 | 6428.6 | 6312.4 | 6153.2 | 5981.1 | 5774.6 | 5540.1 | 5275.4 | 4965.6 | 4625.7 | 4251.3 |
| 10°   | 6538.3 | 6445.8 | 6329.6 | 6187.6 | 6019.8 | 5819.7 | 5589.5 | 5327.1 | 5023.7 | 4679.5 | 4309.4 |
| 7.5°  | 6542.6 | 6454.4 | 6349.0 | 6213.5 | 6047.8 | 5854.2 | 5626.1 | 5367.9 | 5066.7 | 4724.6 | 4352.4 |
| 5°    | 6540.5 | 6456.6 | 6361.9 | 6230.7 | 6065.0 | 5873.5 | 5649.8 | 5395.9 | 5096.8 | 4754.8 | 4384.7 |
| 2.5°  | 6534.0 | 6458.7 | 6370.5 | 6243.6 | 6084.4 | 5895.0 | 5673.4 | 5428.2 | 5129.1 | 4780.6 | 4410.5 |
| 0°    | 6551.2 | 6486.7 | 6374.8 | 6239.3 | 6088.7 | 5895.0 | 5671.3 | 5432.5 | 5133.4 | 4778.4 | 4408.4 |





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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° | 53.8   | 51.6   | 51.6   | 49.5   | 47.3   | 45.2   | 40.9   | 38.7   | 34.4  | 28.0  | 21.5  |
| 85°   | 116.2  | 109.7  | 103.3  | 99.0   | 94.7   | 90.4   | 83.9   | 77.5   | 68.8  | 55.9  | 43.0  |
| 82.5° | 204.4  | 191.5  | 178.6  | 163.5  | 150.6  | 137.7  | 126.9  | 116.2  | 103.3 | 83.9  | 64.5  |
| 80°   | 292.6  | 273.2  | 253.9  | 232.4  | 213.0  | 191.5  | 172.1  | 154.9  | 137.7 | 111.9 | 86.1  |
| 77.5° | 380.8  | 355.0  | 327.0  | 301.2  | 273.2  | 245.3  | 217.3  | 193.6  | 167.8 | 137.7 | 107.6 |
| 75°   | 462.6  | 432.4  | 406.6  | 370.1  | 335.6  | 299.1  | 262.5  | 230.2  | 197.9 | 161.4 | 129.1 |
| 72.5° | 544.3  | 505.6  | 469.0  | 434.6  | 395.9  | 350.7  | 309.8  | 268.9  | 228.1 | 185.0 | 146.3 |
| 70°   | 626.1  | 578.7  | 533.6  | 492.7  | 449.7  | 404.5  | 355.0  | 307.7  | 258.2 | 206.5 | 161.4 |
| 67.5° | 710.0  | 656.2  | 604.6  | 552.9  | 503.4  | 451.8  | 400.2  | 346.4  | 288.3 | 228.1 | 178.6 |
| 65°   | 802.5  | 735.8  | 673.4  | 615.3  | 557.2  | 501.3  | 443.2  | 385.1  | 320.6 | 251.7 | 193.6 |
| 62.5° | 895.0  | 821.9  | 748.7  | 675.6  | 611.0  | 548.6  | 486.2  | 421.7  | 350.7 | 277.5 | 208.7 |
| 60°   | 994.0  | 910.1  | 826.2  | 744.4  | 664.8  | 596.0  | 527.1  | 458.3  | 383.0 | 301.2 | 223.8 |
| 57.5° | 1103.7 | 1002.6 | 907.9  | 815.4  | 725.0  | 643.3  | 568.0  | 494.8  | 410.9 | 324.9 | 241.0 |
| 55°   | 1228.5 | 1103.7 | 991.8  | 888.6  | 789.6  | 690.6  | 608.9  | 533.6  | 443.2 | 348.5 | 260.3 |
| 52.5° | 1359.7 | 1215.6 | 1080.0 | 963.9  | 858.4  | 746.6  | 647.6  | 563.7  | 475.5 | 372.2 | 277.5 |
| 50°   | 1512.5 | 1329.6 | 1179.0 | 1037.0 | 918.7  | 802.5  | 688.5  | 598.1  | 507.7 | 400.2 | 294.8 |
| 47.5° | 1669.5 | 1467.3 | 1278.0 | 1123.1 | 983.2  | 856.3  | 735.8  | 628.2  | 537.9 | 426.0 | 312.0 |
| 45°   | 1852.4 | 1598.5 | 1389.9 | 1207.0 | 1045.6 | 912.2  | 783.1  | 660.5  | 563.7 | 451.8 | 329.2 |
| 42.5° | 2028.8 | 1753.5 | 1506.0 | 1299.5 | 1116.6 | 966.0  | 826.2  | 694.9  | 589.5 | 477.6 | 344.2 |
| 40°   | 2237.5 | 1908.4 | 1617.9 | 1387.7 | 1187.6 | 1017.6 | 869.2  | 731.5  | 613.2 | 501.3 | 359.3 |
| 37.5° | 2437.6 | 2065.4 | 1753.5 | 1484.5 | 1256.5 | 1069.3 | 912.2  | 765.9  | 634.7 | 525.0 | 378.7 |
| 35°   | 2635.6 | 2239.7 | 1882.5 | 1574.9 | 1327.5 | 1127.4 | 955.3  | 798.2  | 656.2 | 544.3 | 395.9 |
| 32.5° | 2824.9 | 2403.2 | 2013.8 | 1676.0 | 1404.9 | 1181.2 | 994.0  | 828.3  | 677.7 | 561.5 | 413.1 |
| 30°   | 3001.3 | 2558.1 | 2142.9 | 1779.3 | 1475.9 | 1230.6 | 1030.6 | 858.4  | 703.5 | 576.6 | 430.3 |
| 27.5° | 3162.7 | 2708.7 | 2272.0 | 1876.1 | 1542.6 | 1275.8 | 1069.3 | 886.4  | 725.0 | 591.7 | 445.4 |
| 25°   | 3309.0 | 2844.3 | 2390.3 | 1964.3 | 1602.9 | 1325.3 | 1105.9 | 914.4  | 744.4 | 604.6 | 458.3 |
| 22.5° | 3446.7 | 2969.0 | 2497.9 | 2052.5 | 1676.0 | 1374.8 | 1140.3 | 940.2  | 763.8 | 617.5 | 471.2 |
| 20°   | 3567.1 | 3083.1 | 2601.1 | 2140.7 | 1740.5 | 1420.0 | 1170.4 | 963.9  | 781.0 | 626.1 | 484.1 |
| 17.5° | 3664.0 | 3184.2 | 2693.6 | 2218.2 | 1796.5 | 1458.7 | 1196.2 | 985.4  | 796.0 | 636.8 | 492.7 |
| 15°   | 3750.0 | 3270.2 | 2771.1 | 2284.9 | 1846.0 | 1491.0 | 1219.9 | 1002.6 | 809.0 | 643.3 | 503.4 |
| 12.5° | 3823.2 | 3343.4 | 2837.8 | 2343.0 | 1889.0 | 1518.9 | 1239.3 | 1015.5 | 819.7 | 649.7 | 509.9 |
| 10°   | 3883.4 | 3401.5 | 2893.7 | 2388.1 | 1923.4 | 1540.5 | 1254.3 | 1028.4 | 828.3 | 656.2 | 516.4 |
| 7.5°  | 3928.6 | 3444.5 | 2934.6 | 2426.9 | 1951.4 | 1555.5 | 1267.2 | 1037.0 | 836.9 | 660.5 | 527.1 |
| 5°    | 3963.0 | 3481.1 | 2966.9 | 2452.7 | 1972.9 | 1577.0 | 1282.3 | 1047.8 | 845.5 | 664.8 | 527.1 |
| 2.5°  | 3988.8 | 3511.2 | 2992.7 | 2474.2 | 1990.1 | 1572.7 | 1282.3 | 1045.6 | 845.5 | 664.8 | 525.0 |
| 0°    | 3984.5 | 3513.4 | 2990.6 | 2474.2 | 1990.1 | 1568.4 | 1282.3 | 1043.5 | 845.5 | 664.8 | 525.0 |



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