

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P477027

Luminaire Tested: **IFLD-S-SA3C-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477027  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

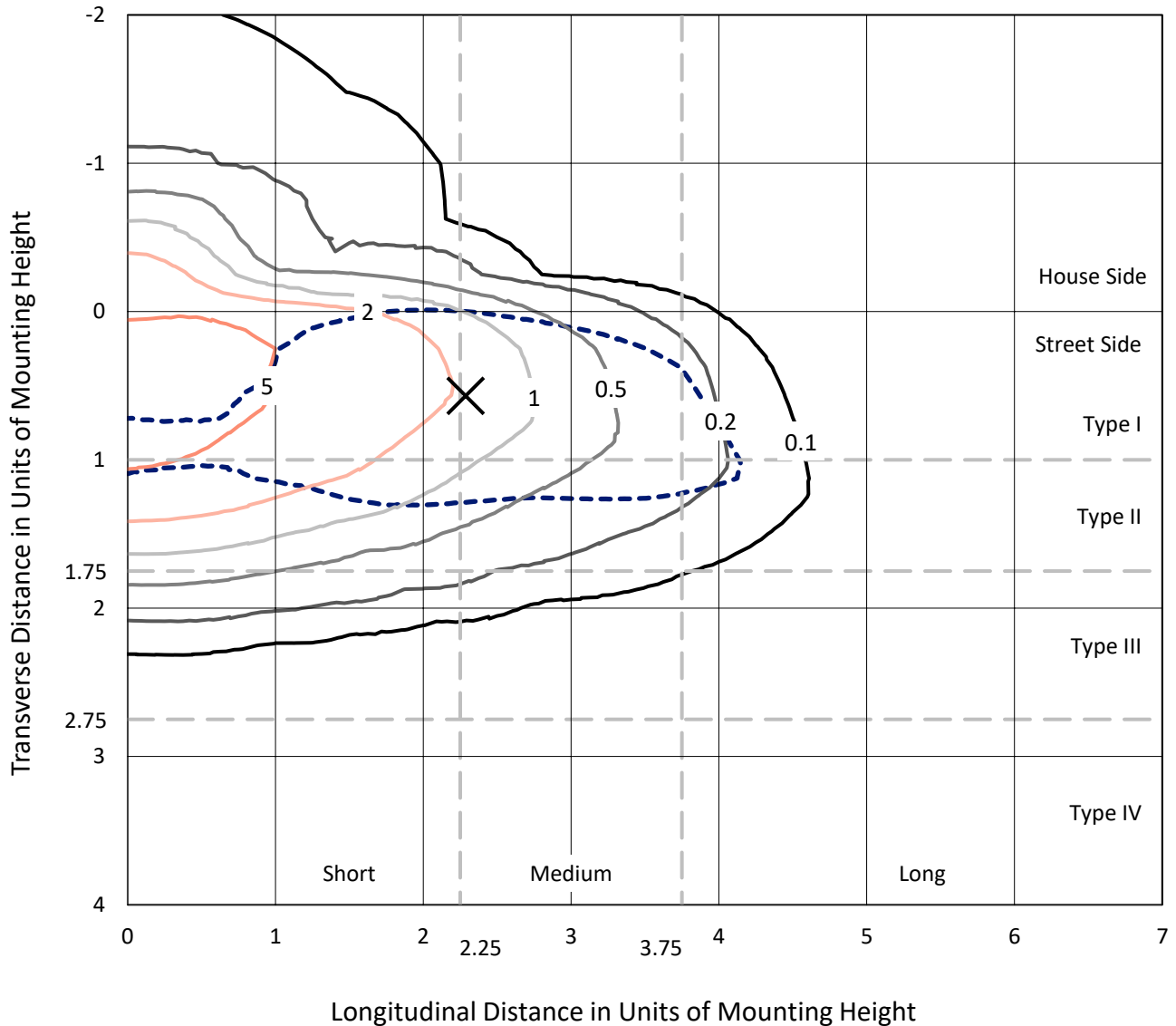
Lumens per Lamp: N/A  
Luminaire Lumens: 21788.8 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

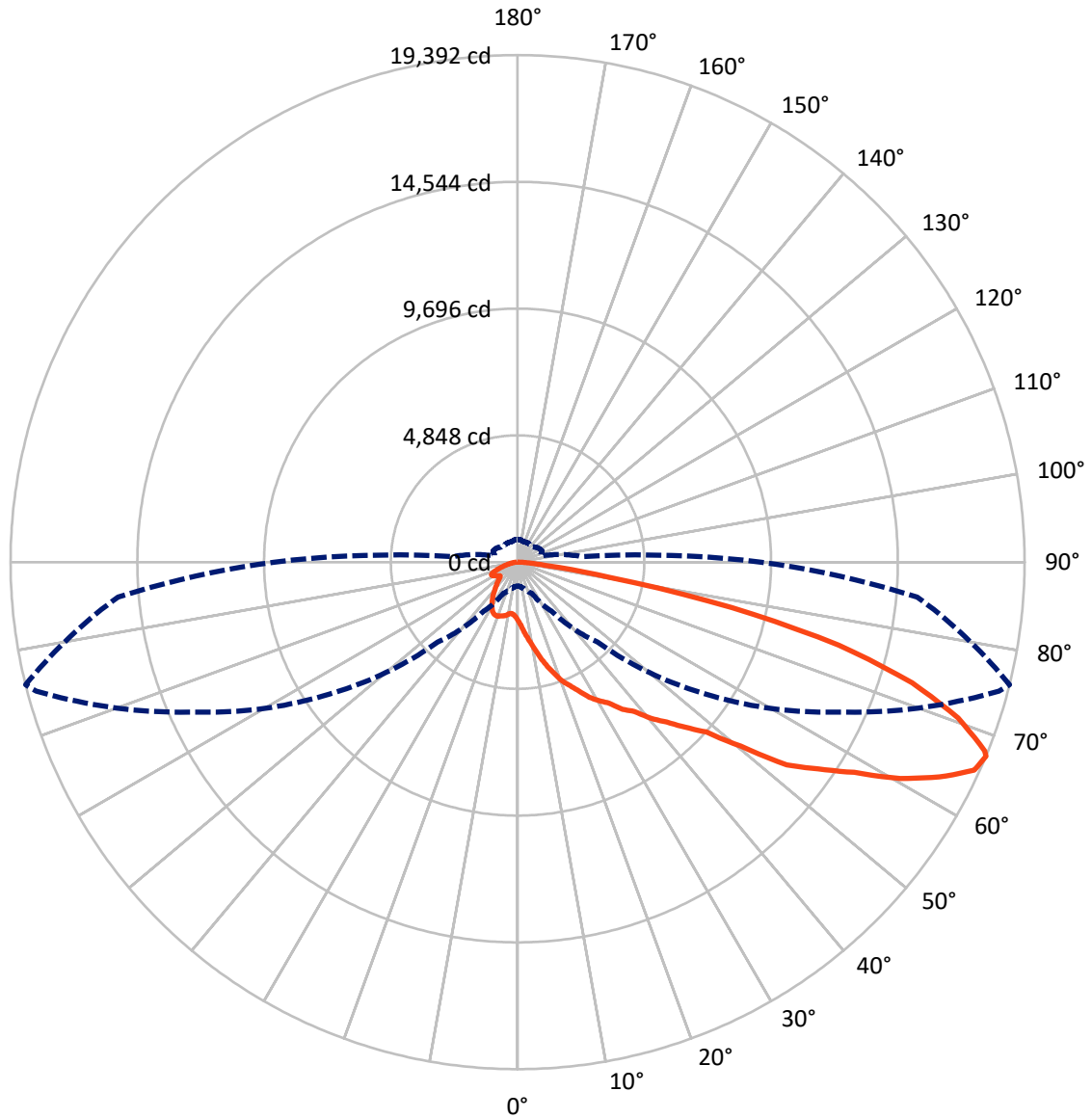
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3099.7   | 0.0    | 3099.7  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 18689.1  | 0.0    | 18689.1 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 21788.8  | 0.0    | 21788.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 258.3   | 1.2       |
| 10°-20°   | 968.7   | 4.4       |
| 20°-30°   | 1801.0  | 8.3       |
| 30°-40°   | 2854.9  | 13.1      |
| 40°-50°   | 3948.6  | 18.1      |
| 50°-60°   | 4857.0  | 22.3      |
| 60°-70°   | 4519.7  | 20.7      |
| 70°-80°   | 2268.0  | 10.4      |
| 80°-90°   | 312.7   | 1.4       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 21788.8 | 100.0     |
| 0°-180°   | 21788.8 | 100.0     |

**Coefficient of Utilization**



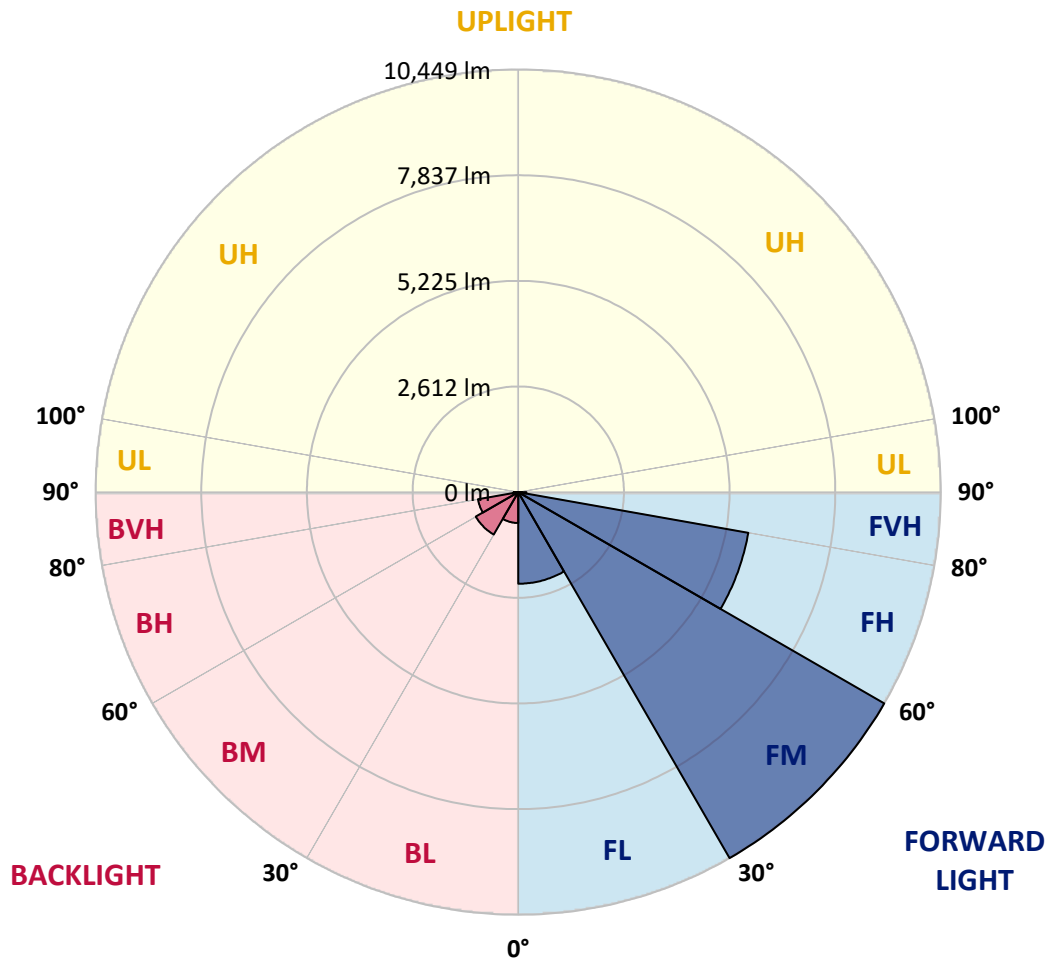
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2264.6  | 10.4      |                         |      |         |
| FM (30°-60°)   | 10449.2 | 48.0      |                         |      |         |
| FH (60°-80°)   | 5776.0  | 26.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 199.2   | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 763.3   | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1211.3  | 5.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 1011.6  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 113.5   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2229.8  | 2229.8  | 2229.8 | 2229.8 | 2229.8 | 2229.8  | 2229.8  | 2229.8  | 2229.8  | 2229.8  | 2229.8  |
| 2.5°  | 3093.8  | 3056.6  | 3019.4 | 2939.9 | 2912.6 | 2838.1  | 2701.5  | 2550.1  | 2425.9  | 2408.5  | 2321.6  |
| 5°    | 3838.7  | 3784.1  | 3771.7 | 3727.0 | 3585.5 | 3441.5  | 3218.0  | 2974.7  | 2671.7  | 2694.1  | 2396.1  |
| 7.5°  | 4397.4  | 4365.2  | 4298.1 | 4255.9 | 4171.5 | 3980.3  | 3749.4  | 3426.6  | 3041.7  | 2967.2  | 2562.5  |
| 10°   | 4819.5  | 4774.8  | 4772.4 | 4735.1 | 4690.4 | 4494.3  | 4318.0  | 3883.4  | 3389.3  | 3287.5  | 2766.1  |
| 12.5° | 5033.1  | 5025.6  | 5157.2 | 5157.2 | 5139.9 | 5057.9  | 4755.0  | 4357.7  | 3719.6  | 3684.8  | 3002.0  |
| 15°   | 5264.0  | 5201.9  | 5316.1 | 5403.1 | 5447.7 | 5490.0  | 5239.2  | 4819.5  | 4141.7  | 4074.6  | 3255.2  |
| 17.5° | 5264.0  | 5259.0  | 5373.3 | 5517.3 | 5750.7 | 5805.3  | 5668.7  | 5244.1  | 4491.8  | 4442.1  | 3533.3  |
| 20°   | 5174.6  | 5246.6  | 5326.1 | 5519.8 | 5773.0 | 5994.0  | 6033.7  | 5678.7  | 4879.1  | 4839.4  | 3848.7  |
| 22.5° | 5591.8  | 5522.2  | 5604.2 | 5678.7 | 5874.8 | 6210.0  | 6319.3  | 6061.1  | 5286.4  | 5134.9  | 4134.2  |
| 25°   | 6292.0  | 6244.8  | 6185.2 | 6076.0 | 6157.9 | 6304.4  | 6470.8  | 6344.1  | 5634.0  | 5465.1  | 4409.8  |
| 27.5° | 6974.8  | 6977.3  | 6848.2 | 6609.8 | 6433.5 | 6463.3  | 6659.5  | 6592.4  | 5927.0  | 5852.5  | 4598.6  |
| 30°   | 7945.7  | 7886.1  | 7742.1 | 7419.3 | 7074.1 | 6791.1  | 6758.8  | 6823.3  | 6299.4  | 6155.4  | 4869.2  |
| 32.5° | 8673.2  | 8685.6  | 8482.0 | 8017.7 | 7545.9 | 7315.0  | 7031.9  | 7059.2  | 6535.3  | 6428.5  | 5085.2  |
| 35°   | 9261.7  | 9246.8  | 9102.8 | 8717.9 | 8159.2 | 7881.1  | 7498.7  | 7342.3  | 7084.1  | 6915.2  | 5415.5  |
| 37.5° | 9897.3  | 9775.7  | 9542.2 | 9107.7 | 8750.2 | 8365.3  | 7992.8  | 7640.3  | 7449.1  | 7245.5  | 5698.5  |
| 40°   | 10153.1 | 10153.1 | 9840.2 | 9641.6 | 9217.0 | 8926.5  | 8685.6  | 8032.6  | 7893.5  | 7853.8  | 6061.1  |
| 42.5° | 9971.8  | 10083.5 | 9954.4 | 9728.5 | 9554.7 | 9187.2  | 9122.6  | 8439.8  | 8442.3  | 8362.8  | 6495.6  |
| 45°   | 9954.4  | 9800.5  | 9693.7 | 9750.8 | 9668.9 | 9649.0  | 9812.9  | 9003.4  | 9018.3  | 9008.4  | 7079.1  |
| 47.5° | 9455.3  | 9385.8  | 9544.7 | 9639.1 | 9706.1 | 10014.0 | 10485.8 | 9676.3  | 9783.1  | 9708.6  | 7752.0  |
| 50°   | 8958.7  | 8946.3  | 9045.6 | 9388.3 | 9678.8 | 10185.4 | 11126.4 | 10714.2 | 11064.3 | 11059.4 | 8971.2  |
| 52.5° | 7598.0  | 7729.6  | 8119.5 | 8844.5 | 9562.1 | 10418.8 | 11610.6 | 12040.2 | 12708.1 | 12889.4 | 9981.7  |
| 55°   | 6296.9  | 6227.4  | 6803.5 | 7856.3 | 9053.1 | 10510.6 | 12151.9 | 12837.2 | 13820.5 | 13952.1 | 11019.6 |
| 57.5° | 4899.0  | 5028.1  | 5482.5 | 6493.1 | 8000.3 | 10056.2 | 12549.2 | 13624.3 | 15076.9 | 15178.7 | 12223.9 |
| 60°   | 3655.0  | 3672.4  | 4171.5 | 4985.9 | 6599.9 | 9030.7  | 12678.3 | 14431.3 | 16517.1 | 16807.6 | 13485.3 |
| 62.5° | 2299.3  | 2403.6  | 2783.5 | 3585.5 | 4968.5 | 7595.6  | 12099.8 | 14920.5 | 18026.7 | 18103.7 | 14756.6 |
| 65°   | 1239.0  | 1306.1  | 1591.6 | 2095.7 | 3471.3 | 5745.7  | 10565.3 | 14627.5 | 18736.9 | 19193.7 | 15322.7 |
| 67°   | 916.2   | 928.6   | 1060.2 | 1338.3 | 2321.6 | 4325.4  | 8809.8  | 13567.2 | 19059.7 | 19392.4 | 15345.1 |
| 67.5° | 859.1   | 876.5   | 980.8  | 1201.8 | 2058.4 | 3982.8  | 8350.4  | 13189.8 | 18915.7 | 19273.2 | 15171.3 |
| 70°   | 735.0   | 739.9   | 764.8  | 826.8  | 1154.6 | 2396.1  | 5686.1  | 10808.6 | 17532.6 | 17875.3 | 13952.1 |
| 72.5° | 653.0   | 658.0   | 667.9  | 680.3  | 782.2  | 1385.5  | 3458.8  | 8318.1  | 15238.3 | 15784.6 | 12037.7 |
| 75°   | 573.6   | 591.0   | 595.9  | 586.0  | 665.4  | 901.3   | 1839.9  | 6113.2  | 12430.0 | 12695.7 | 9361.0  |
| 77.5° | 486.7   | 494.1   | 504.1  | 514.0  | 593.4  | 672.9   | 884.0   | 4126.8  | 8531.7  | 8370.3  | 5062.9  |
| 80°   | 409.7   | 412.2   | 419.6  | 427.1  | 514.0  | 514.0   | 501.6   | 2229.8  | 3727.0  | 3563.1  | 1710.8  |
| 82.5° | 293.0   | 310.4   | 327.8  | 347.6  | 427.1  | 345.1   | 327.8   | 993.2   | 1179.4  | 1122.3  | 578.5   |
| 85°   | 114.2   | 139.0   | 216.0  | 238.4  | 270.6  | 186.2   | 218.5   | 429.6   | 491.6   | 486.7   | 216.0   |
| 87.5° | 19.9    | 22.3    | 59.6   | 91.9   | 99.3   | 64.6    | 104.3   | 153.9   | 183.7   | 198.6   | 79.5    |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 |
| 2.5°  | 2249.6 | 2172.6 | 2080.8 | 1988.9 | 1929.3 | 1835.0 | 1827.5 | 1770.4 | 1762.9 | 1743.1 | 1753.0 |
| 5°    | 2267.0 | 2175.1 | 1988.9 | 1842.4 | 1775.4 | 1720.7 | 1733.1 | 1708.3 | 1700.9 | 1688.5 | 1668.6 |
| 7.5°  | 2403.6 | 2222.3 | 1944.2 | 1817.6 | 1767.9 | 1743.1 | 1743.1 | 1713.3 | 1690.9 | 1705.8 | 1720.7 |
| 10°   | 2493.0 | 2244.7 | 1979.0 | 1852.3 | 1812.6 | 1758.0 | 1777.8 | 1740.6 | 1753.0 | 1723.2 | 1723.2 |
| 12.5° | 2637.0 | 2371.3 | 2051.0 | 1904.5 | 1839.9 | 1790.3 | 1810.1 | 1767.9 | 1758.0 | 1760.5 | 1753.0 |
| 15°   | 2830.6 | 2455.7 | 2083.3 | 1934.3 | 1889.6 | 1827.5 | 1812.6 | 1775.4 | 1738.1 | 1725.7 | 1740.6 |
| 17.5° | 3011.9 | 2560.0 | 2105.6 | 1951.7 | 1879.6 | 1810.1 | 1792.7 | 1745.6 | 1733.1 | 1695.9 | 1666.1 |
| 20°   | 3227.9 | 2684.1 | 2135.4 | 1966.6 | 1842.4 | 1772.9 | 1728.2 | 1681.0 | 1638.8 | 1616.4 | 1626.4 |
| 22.5° | 3371.9 | 2748.7 | 2150.3 | 1936.8 | 1787.8 | 1723.2 | 1628.9 | 1596.6 | 1537.0 | 1512.2 | 1492.3 |
| 25°   | 3607.8 | 2828.2 | 2113.1 | 1854.8 | 1690.9 | 1586.7 | 1502.2 | 1457.5 | 1415.3 | 1383.0 | 1373.1 |
| 27.5° | 3667.4 | 2887.8 | 2026.1 | 1715.8 | 1537.0 | 1427.7 | 1355.7 | 1301.1 | 1273.8 | 1224.1 | 1214.2 |
| 30°   | 3841.2 | 2828.2 | 1897.0 | 1546.9 | 1390.5 | 1278.8 | 1206.7 | 1167.0 | 1102.5 | 1090.0 | 1062.7 |
| 32.5° | 3953.0 | 2845.5 | 1733.1 | 1383.0 | 1221.6 | 1122.3 | 1075.1 | 1035.4 | 1018.0 | 958.4  | 943.5  |
| 35°   | 4139.2 | 2785.9 | 1566.8 | 1231.6 | 1082.6 | 1005.6 | 965.9  | 953.5  | 896.4  | 869.1  | 844.2  |
| 37.5° | 4258.4 | 2751.2 | 1400.4 | 1060.2 | 931.1  | 898.9  | 911.3  | 859.1  | 789.6  | 737.5  | 720.1  |
| 40°   | 4467.0 | 2738.8 | 1211.7 | 918.7  | 826.8  | 819.4  | 859.1  | 759.8  | 633.2  | 588.5  | 563.6  |
| 42.5° | 4767.4 | 2654.3 | 1065.2 | 792.1  | 744.9  | 777.2  | 784.6  | 633.2  | 561.2  | 523.9  | 506.5  |
| 45°   | 5055.4 | 2671.7 | 921.2  | 655.5  | 648.1  | 695.2  | 677.9  | 536.3  | 494.1  | 466.8  | 481.7  |
| 47.5° | 5609.1 | 2758.6 | 779.7  | 546.3  | 583.5  | 628.2  | 526.4  | 479.2  | 439.5  | 419.6  | 422.1  |
| 50°   | 6465.8 | 2843.1 | 655.5  | 499.1  | 551.2  | 568.6  | 451.9  | 434.5  | 432.0  | 392.3  | 389.8  |
| 52.5° | 6979.8 | 2810.8 | 633.2  | 558.7  | 591.0  | 568.6  | 491.6  | 479.2  | 459.4  | 442.0  | 422.1  |
| 55°   | 7796.7 | 2905.1 | 680.3  | 653.0  | 670.4  | 546.3  | 551.2  | 546.3  | 531.4  | 486.7  | 499.1  |
| 57.5° | 8447.2 | 2967.2 | 742.4  | 730.0  | 720.1  | 568.6  | 576.1  | 578.5  | 568.6  | 548.7  | 566.1  |
| 60°   | 9341.1 | 3091.4 | 807.0  | 809.5  | 811.9  | 618.3  | 630.7  | 645.6  | 643.1  | 635.7  | 640.6  |
| 62.5° | 9889.9 | 3034.3 | 879.0  | 918.7  | 906.3  | 720.1  | 717.6  | 727.5  | 727.5  | 739.9  | 747.4  |
| 65°   | 9807.9 | 2823.2 | 916.2  | 1015.6 | 951.0  | 794.6  | 794.6  | 799.5  | 802.0  | 826.8  | 829.3  |
| 67°   | 9316.3 | 2445.8 | 896.4  | 1030.5 | 951.0  | 824.4  | 824.4  | 829.3  | 811.9  | 876.5  | 856.6  |
| 67.5° | 9087.9 | 2334.0 | 879.0  | 1018.0 | 943.5  | 821.9  | 821.9  | 824.4  | 809.5  | 871.5  | 851.7  |
| 70°   | 7903.5 | 1733.1 | 757.3  | 901.3  | 874.0  | 799.5  | 799.5  | 784.6  | 772.2  | 854.2  | 836.8  |
| 72.5° | 6746.4 | 1258.9 | 608.3  | 767.3  | 789.6  | 769.7  | 774.7  | 737.5  | 702.7  | 759.8  | 744.9  |
| 75°   | 5167.2 | 926.2  | 474.3  | 591.0  | 667.9  | 720.1  | 752.4  | 658.0  | 613.3  | 628.2  | 600.9  |
| 77.5° | 2882.8 | 603.4  | 374.9  | 437.0  | 509.0  | 670.4  | 722.6  | 593.4  | 501.6  | 484.2  | 484.2  |
| 80°   | 978.3  | 352.6  | 275.6  | 325.3  | 350.1  | 593.4  | 675.4  | 481.7  | 394.8  | 377.4  | 365.0  |
| 82.5° | 370.0  | 216.0  | 188.7  | 223.5  | 223.5  | 469.3  | 551.2  | 370.0  | 298.0  | 384.9  | 392.3  |
| 85°   | 168.8  | 129.1  | 124.2  | 129.1  | 129.1  | 288.0  | 389.8  | 240.9  | 268.2  | 230.9  | 203.6  |
| 87.5° | 67.0   | 62.1   | 57.1   | 54.6   | 44.7   | 49.7   | 134.1  | 64.6   | 121.7  | 32.3   | 29.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)