

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: INVUE

Report Number: P676401

Luminaire Tested: **CCW-SA-1F-730-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676401  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-730-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

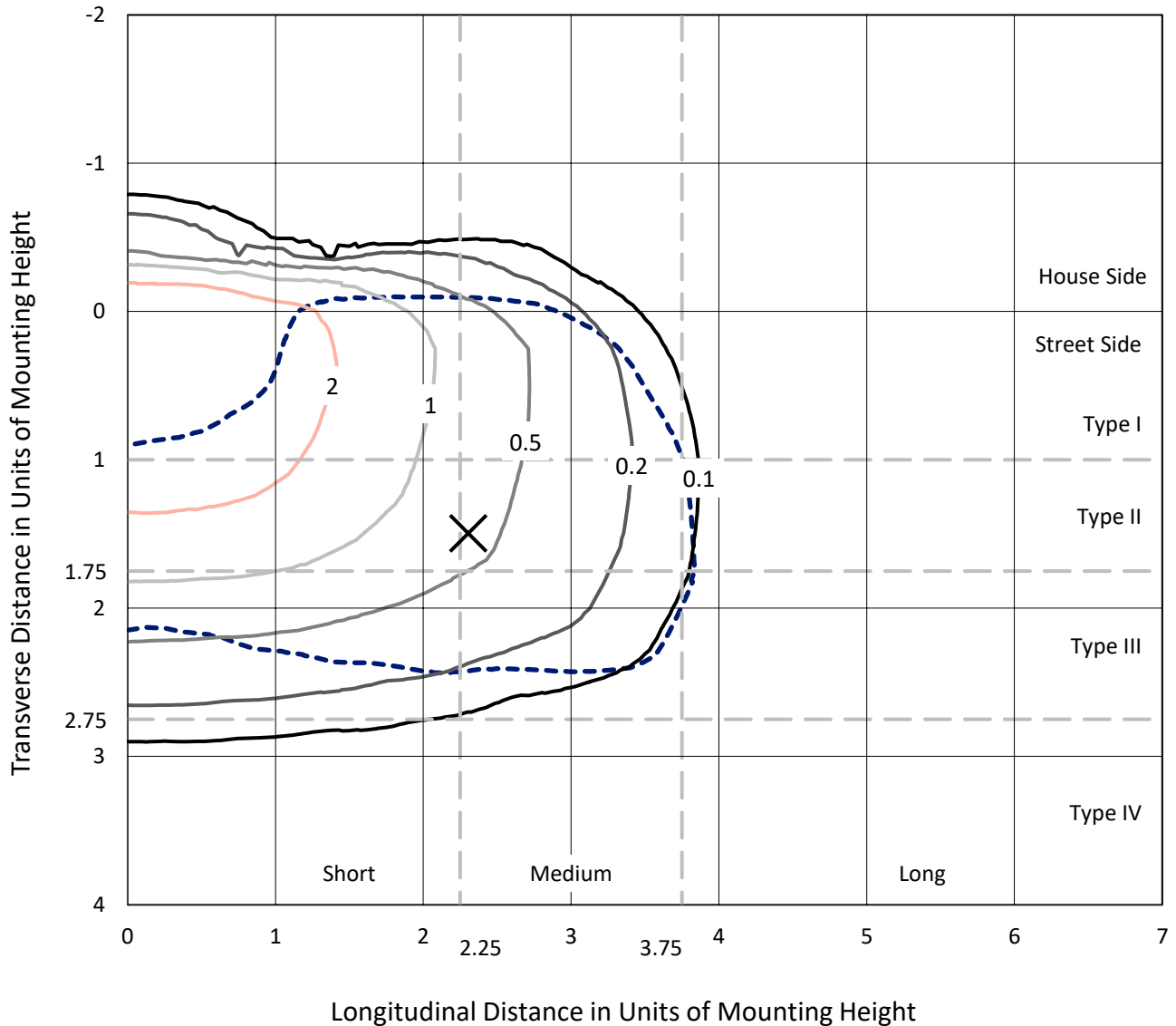
Lumens per Lamp: N/A  
Luminaire Lumens: 4918.5 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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-Footcandle Lines of Horizontal Illumination

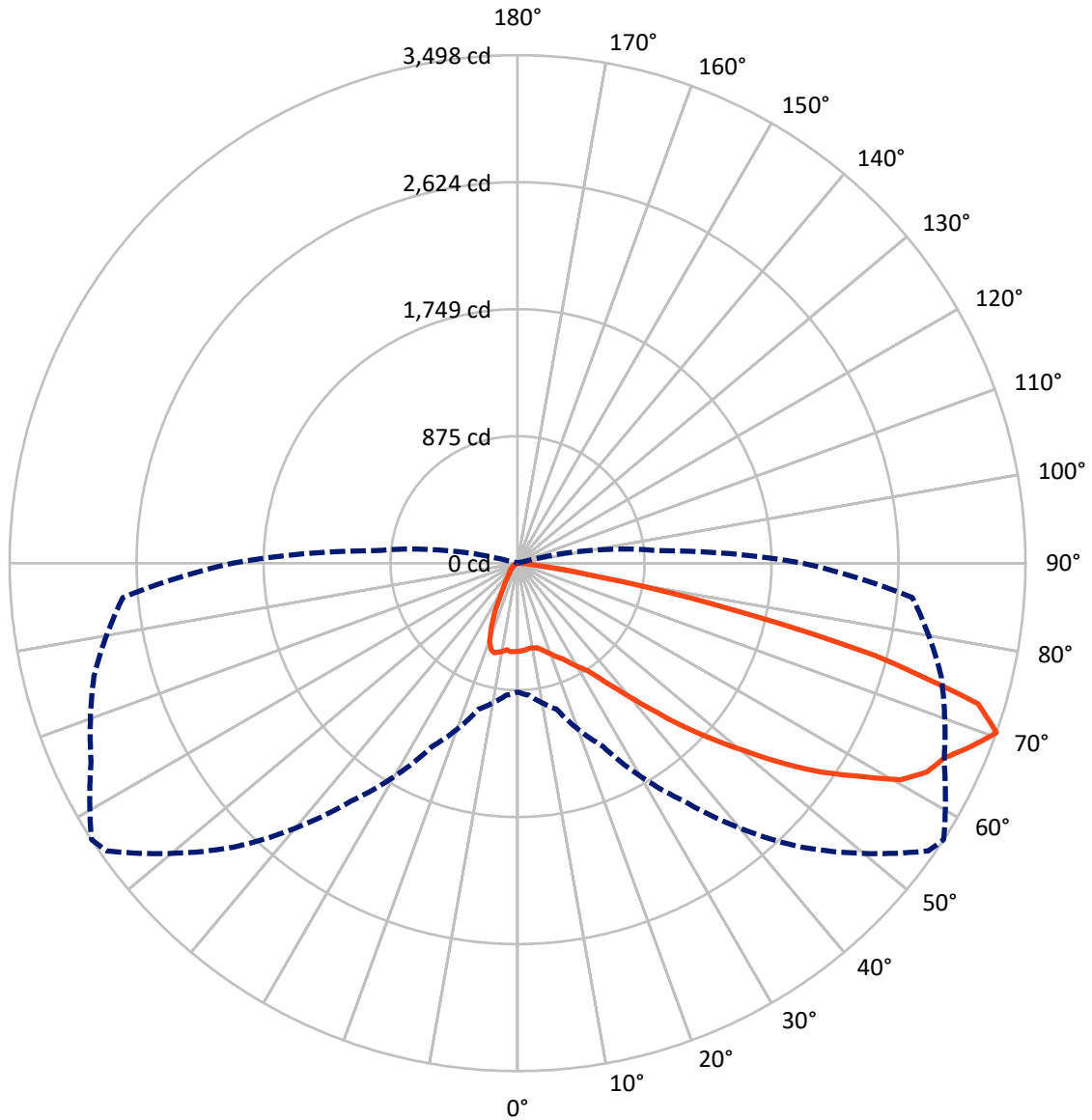
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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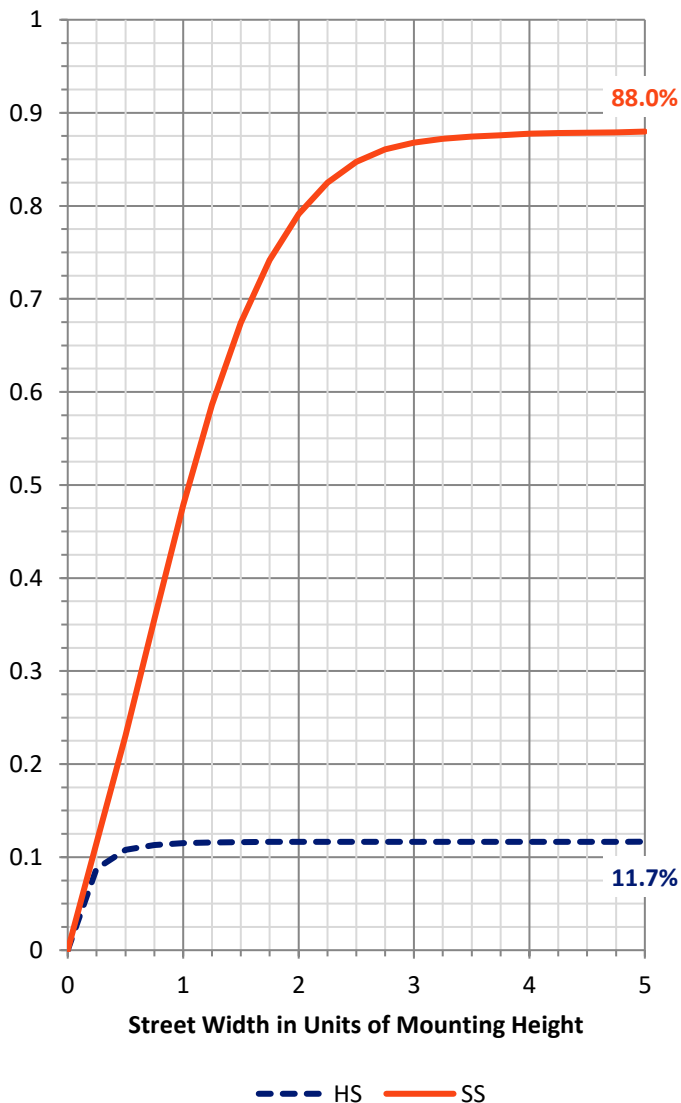
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 579.8    | 0.0    | 579.8  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 4338.8   | 0.0    | 4338.8 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 4918.5   | 0.0    | 4918.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.7   | 1.2       |
| 10°-20°   | 158.6  | 3.2       |
| 20°-30°   | 267.1  | 5.4       |
| 30°-40°   | 457.1  | 9.3       |
| 40°-50°   | 767.6  | 15.6      |
| 50°-60°   | 1178.2 | 24.0      |
| 60°-70°   | 1360.3 | 27.7      |
| 70°-80°   | 642.6  | 13.1      |
| 80°-90°   | 30.5   | 0.6       |
| 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°    | 4918.5 | 100.0     |
| 0°-180°   | 4918.5 | 100.0     |



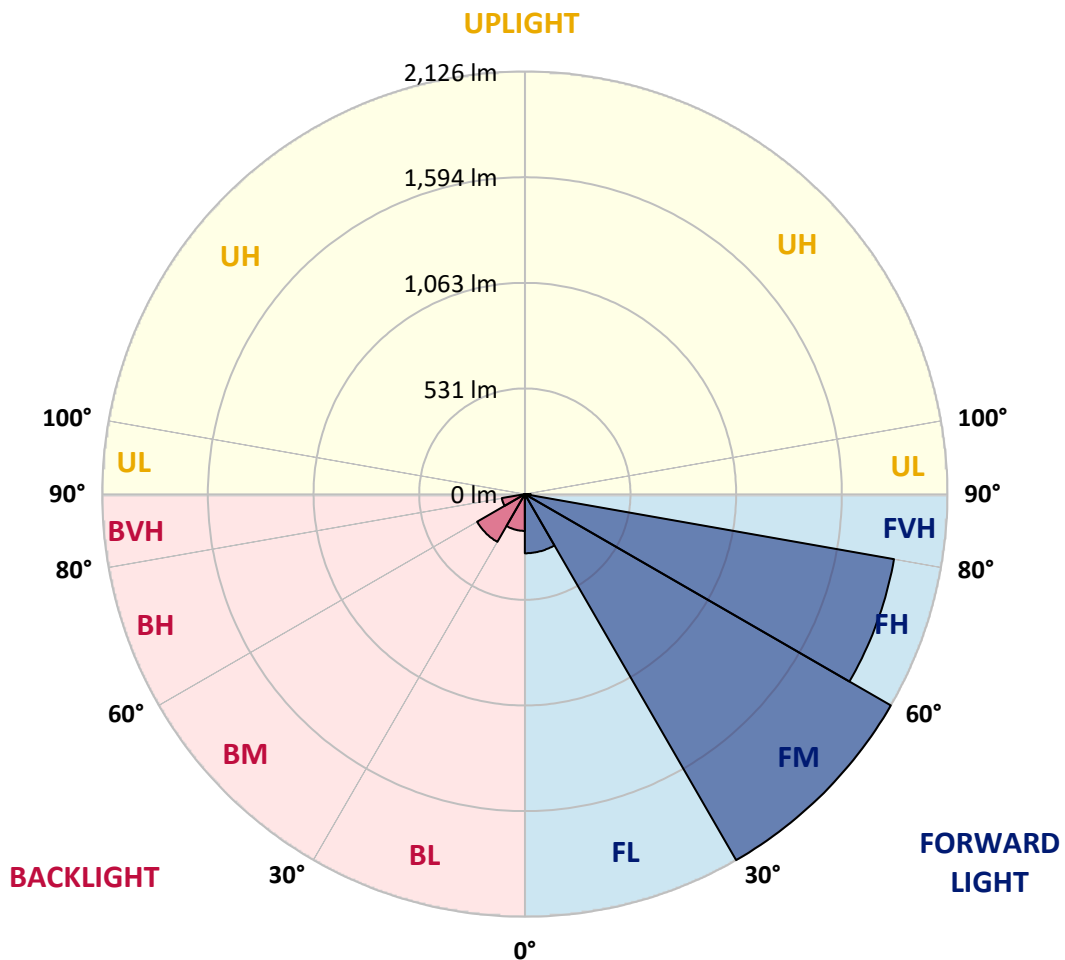
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 297.6  | 6.0       |                         |      |         |
| FM (30°-60°)   | 2125.7 | 43.2      |                         |      |         |
| FH (60°-80°)   | 1885.6 | 38.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 29.9   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 184.8  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 277.1  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 117.3  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.5    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  | 606.9  |
| 2.5°  | 598.1  | 594.3  | 598.1  | 603.1  | 598.1  | 601.9  | 600.6  | 604.4  | 599.3  | 599.3  | 603.1  |
| 5°    | 559.1  | 565.4  | 567.9  | 574.2  | 580.5  | 591.8  | 599.3  | 599.3  | 606.9  | 610.7  | 615.7  |
| 7.5°  | 545.3  | 535.3  | 545.3  | 550.3  | 556.6  | 575.5  | 586.8  | 591.8  | 601.9  | 615.7  | 623.2  |
| 10°   | 525.2  | 532.7  | 532.7  | 549.1  | 557.9  | 569.2  | 589.3  | 593.1  | 615.7  | 629.5  | 637.0  |
| 12.5° | 524.0  | 524.0  | 530.2  | 541.5  | 559.1  | 580.5  | 605.6  | 598.1  | 622.0  | 647.1  | 659.7  |
| 15°   | 527.7  | 536.5  | 536.5  | 551.6  | 565.4  | 595.6  | 616.9  | 618.2  | 652.1  | 677.2  | 688.6  |
| 17.5° | 544.1  | 540.3  | 545.3  | 554.1  | 575.5  | 604.4  | 639.6  | 643.3  | 682.3  | 716.2  | 732.5  |
| 20°   | 578.0  | 584.3  | 576.7  | 571.7  | 580.5  | 618.2  | 663.4  | 671.0  | 714.9  | 747.6  | 763.9  |
| 22.5° | 704.9  | 699.9  | 669.7  | 634.5  | 619.4  | 637.0  | 686.0  | 703.6  | 755.1  | 794.1  | 807.9  |
| 25°   | 848.1  | 839.3  | 804.1  | 751.4  | 682.3  | 674.7  | 731.3  | 731.3  | 805.4  | 848.1  | 844.4  |
| 27.5° | 983.8  | 981.3  | 939.9  | 884.6  | 786.6  | 732.5  | 767.7  | 781.5  | 861.9  | 897.1  | 880.8  |
| 30°   | 1122.0 | 1124.6 | 1086.9 | 1020.3 | 917.2  | 825.5  | 819.2  | 830.5  | 904.7  | 960.0  | 926.0  |
| 32.5° | 1282.9 | 1260.3 | 1233.9 | 1142.1 | 1047.9 | 944.9  | 885.8  | 880.8  | 952.4  | 1002.7 | 957.4  |
| 35°   | 1426.1 | 1412.3 | 1383.4 | 1300.5 | 1192.4 | 1069.3 | 986.3  | 973.8  | 1012.7 | 1079.3 | 1030.3 |
| 37.5° | 1551.8 | 1537.9 | 1500.2 | 1445.0 | 1360.8 | 1223.8 | 1107.0 | 1088.1 | 1104.4 | 1174.8 | 1115.8 |
| 40°   | 1659.8 | 1663.6 | 1653.5 | 1599.5 | 1521.6 | 1397.2 | 1262.8 | 1232.6 | 1218.8 | 1281.6 | 1215.0 |
| 42.5° | 1737.7 | 1774.2 | 1776.7 | 1710.1 | 1647.3 | 1579.4 | 1428.6 | 1404.7 | 1372.1 | 1424.9 | 1378.4 |
| 45°   | 1901.1 | 1881.0 | 1893.5 | 1869.6 | 1800.5 | 1790.5 | 1619.6 | 1605.8 | 1560.6 | 1578.1 | 1529.1 |
| 47.5° | 2029.2 | 2025.5 | 2049.3 | 2010.4 | 1991.5 | 1992.8 | 1837.0 | 1813.1 | 1749.0 | 1781.7 | 1726.4 |
| 50°   | 2103.4 | 2083.3 | 2169.9 | 2200.1 | 2196.3 | 2211.4 | 2056.9 | 2036.8 | 1975.2 | 2022.9 | 1904.8 |
| 52.5° | 2120.9 | 2157.4 | 2239.1 | 2348.4 | 2394.9 | 2426.3 | 2296.9 | 2289.3 | 2222.7 | 2252.9 | 2089.5 |
| 55°   | 2164.9 | 2200.1 | 2247.9 | 2427.5 | 2599.7 | 2607.2 | 2533.1 | 2540.6 | 2481.6 | 2474.0 | 2265.4 |
| 57.5° | 2163.7 | 2156.1 | 2288.1 | 2496.6 | 2735.4 | 2843.4 | 2803.2 | 2766.8 | 2702.7 | 2628.6 | 2378.5 |
| 60°   | 2084.5 | 2080.7 | 2217.7 | 2505.4 | 2809.5 | 3057.0 | 3073.4 | 3030.6 | 2869.8 | 2760.5 | 2511.7 |
| 62.5° | 1927.4 | 1942.5 | 2080.7 | 2430.0 | 2879.9 | 3133.7 | 3194.0 | 3165.1 | 2965.3 | 2848.4 | 2668.8 |
| 65°   | 1747.8 | 1716.4 | 1877.2 | 2241.6 | 2721.5 | 3111.1 | 3241.7 | 3231.7 | 3078.4 | 2943.9 | 2813.3 |
| 67.5° | 1402.2 | 1416.1 | 1539.2 | 1928.7 | 2451.4 | 3028.1 | 3353.6 | 3368.6 | 3168.9 | 3028.1 | 2857.2 |
| 70°   | 888.3  | 913.5  | 1041.6 | 1393.4 | 2001.6 | 2766.8 | 3454.1 | 3498.1 | 3240.5 | 3020.6 | 2729.1 |
| 72.5° | 258.8  | 268.9  | 443.5  | 694.8  | 1275.3 | 2219.0 | 3293.2 | 3315.9 | 3101.0 | 2741.6 | 2110.9 |
| 75°   | 85.4   | 90.5   | 130.7  | 226.2  | 500.1  | 1147.2 | 2432.6 | 2539.4 | 2467.7 | 1987.8 | 1207.5 |
| 77.5° | 56.5   | 59.1   | 71.6   | 108.1  | 189.7  | 359.4  | 1304.2 | 1418.6 | 1390.9 | 931.1  | 389.5  |
| 80°   | 41.5   | 42.7   | 52.8   | 72.9   | 115.6  | 129.4  | 481.2  | 556.6  | 537.8  | 213.6  | 77.9   |
| 82.5° | 26.4   | 26.4   | 39.0   | 51.5   | 72.9   | 64.1   | 139.5  | 154.5  | 150.8  | 81.7   | 30.2   |
| 85°   | 17.6   | 18.8   | 28.9   | 40.2   | 40.2   | 30.2   | 40.2   | 46.5   | 50.3   | 44.0   | 13.8   |
| 87.5° | 5.0    | 6.3    | 16.3   | 27.6   | 16.3   | 15.1   | 13.8   | 15.1   | 17.6   | 23.9   | 7.5    |
| 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°    | 606.9  | 606.9  | 606.9 | 606.9 | 606.9 | 606.9 | 606.9 | 606.9 | 606.9 | 606.9 | 606.9 |
| 2.5°  | 606.9  | 611.9  | 610.7 | 613.2 | 609.4 | 605.6 | 609.4 | 609.4 | 609.4 | 605.6 | 603.1 |
| 5°    | 611.9  | 609.4  | 611.9 | 606.9 | 611.9 | 606.9 | 604.4 | 596.8 | 595.6 | 595.6 | 600.6 |
| 7.5°  | 619.4  | 622.0  | 610.7 | 610.7 | 599.3 | 601.9 | 595.6 | 596.8 | 594.3 | 590.5 | 588.0 |
| 10°   | 630.8  | 640.8  | 629.5 | 625.7 | 613.2 | 603.1 | 588.0 | 580.5 | 580.5 | 575.5 | 580.5 |
| 12.5° | 662.2  | 658.4  | 652.1 | 639.6 | 624.5 | 604.4 | 567.9 | 531.5 | 501.3 | 478.7 | 490.0 |
| 15°   | 687.3  | 686.0  | 677.2 | 653.4 | 633.3 | 571.7 | 480.0 | 385.7 | 335.5 | 312.9 | 309.1 |
| 17.5° | 726.2  | 722.5  | 707.4 | 676.0 | 609.4 | 473.7 | 329.2 | 250.0 | 201.0 | 189.7 | 186.0 |
| 20°   | 762.7  | 761.4  | 728.8 | 688.6 | 549.1 | 345.5 | 214.9 | 164.6 | 150.8 | 152.0 | 149.5 |
| 22.5° | 801.6  | 795.4  | 756.4 | 673.5 | 437.3 | 229.9 | 153.3 | 147.0 | 142.0 | 140.7 | 143.2 |
| 25°   | 845.6  | 823.0  | 784.0 | 639.6 | 321.7 | 158.3 | 144.5 | 139.5 | 134.4 | 133.2 | 133.2 |
| 27.5° | 863.2  | 848.1  | 796.6 | 557.9 | 203.6 | 138.2 | 135.7 | 129.4 | 123.1 | 119.4 | 118.1 |
| 30°   | 903.4  | 878.3  | 809.2 | 438.5 | 144.5 | 126.9 | 123.1 | 115.6 | 106.8 | 100.5 | 100.5 |
| 32.5° | 943.6  | 913.5  | 810.4 | 306.6 | 120.6 | 114.3 | 108.1 | 98.0  | 86.7  | 80.4  | 81.7  |
| 35°   | 993.9  | 952.4  | 796.6 | 198.5 | 108.1 | 100.5 | 88.0  | 76.6  | 66.6  | 61.6  | 61.6  |
| 37.5° | 1079.3 | 1040.4 | 740.1 | 130.7 | 98.0  | 85.4  | 72.9  | 60.3  | 51.5  | 47.7  | 47.7  |
| 40°   | 1187.4 | 1137.1 | 662.2 | 103.0 | 86.7  | 72.9  | 57.8  | 46.5  | 41.5  | 37.7  | 37.7  |
| 42.5° | 1316.8 | 1254.0 | 546.6 | 91.7  | 76.6  | 60.3  | 45.2  | 36.4  | 31.4  | 31.4  | 30.2  |
| 45°   | 1446.2 | 1343.2 | 428.5 | 84.2  | 67.9  | 50.3  | 35.2  | 28.9  | 26.4  | 25.1  | 25.1  |
| 47.5° | 1630.9 | 1451.2 | 306.6 | 76.6  | 59.1  | 39.0  | 28.9  | 23.9  | 21.4  | 20.1  | 21.4  |
| 50°   | 1808.1 | 1553.0 | 217.4 | 69.1  | 49.0  | 31.4  | 23.9  | 21.4  | 18.8  | 17.6  | 17.6  |
| 52.5° | 1963.9 | 1623.4 | 152.0 | 60.3  | 41.5  | 26.4  | 21.4  | 18.8  | 17.6  | 16.3  | 16.3  |
| 55°   | 2049.3 | 1599.5 | 104.3 | 51.5  | 33.9  | 22.6  | 18.8  | 16.3  | 15.1  | 13.8  | 13.8  |
| 57.5° | 2137.3 | 1532.9 | 79.2  | 42.7  | 27.6  | 21.4  | 17.6  | 15.1  | 13.8  | 12.6  | 12.6  |
| 60°   | 2211.4 | 1483.9 | 61.6  | 33.9  | 22.6  | 17.6  | 15.1  | 12.6  | 11.3  | 10.1  | 8.8   |
| 62.5° | 2215.2 | 1385.9 | 45.2  | 25.1  | 17.6  | 15.1  | 12.6  | 10.1  | 6.3   | 5.0   | 3.8   |
| 65°   | 2230.3 | 1282.9 | 32.7  | 18.8  | 12.6  | 11.3  | 8.8   | 5.0   | 2.5   | 0.0   | 0.0   |
| 67.5° | 2177.5 | 1161.0 | 26.4  | 13.8  | 8.8   | 6.3   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   |
| 70°   | 1962.6 | 980.1  | 20.1  | 10.1  | 6.3   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1404.7 | 637.0  | 13.8  | 7.5   | 2.5   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 748.9  | 271.4  | 10.1  | 5.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 235.0  | 69.1   | 6.3   | 2.5   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 51.5   | 18.8   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 17.6   | 7.5    | 2.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.3    | 2.5    | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.5    | 1.3    | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)