

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: P674771

Luminaire Tested: **CCP-SA-1D-840-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674771  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-840-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

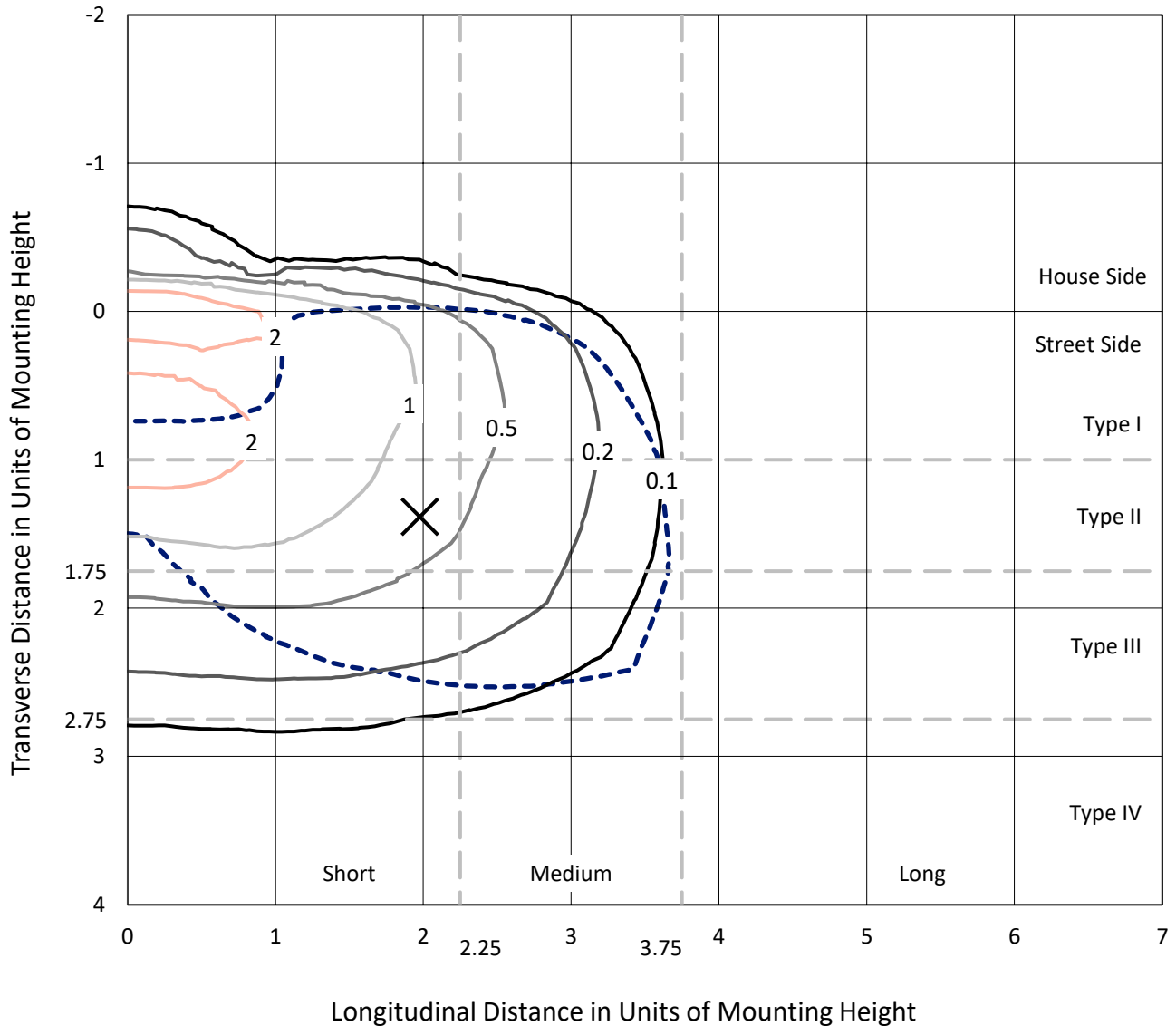
Lumens per Lamp: N/A  
Luminaire Lumens: 3771 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

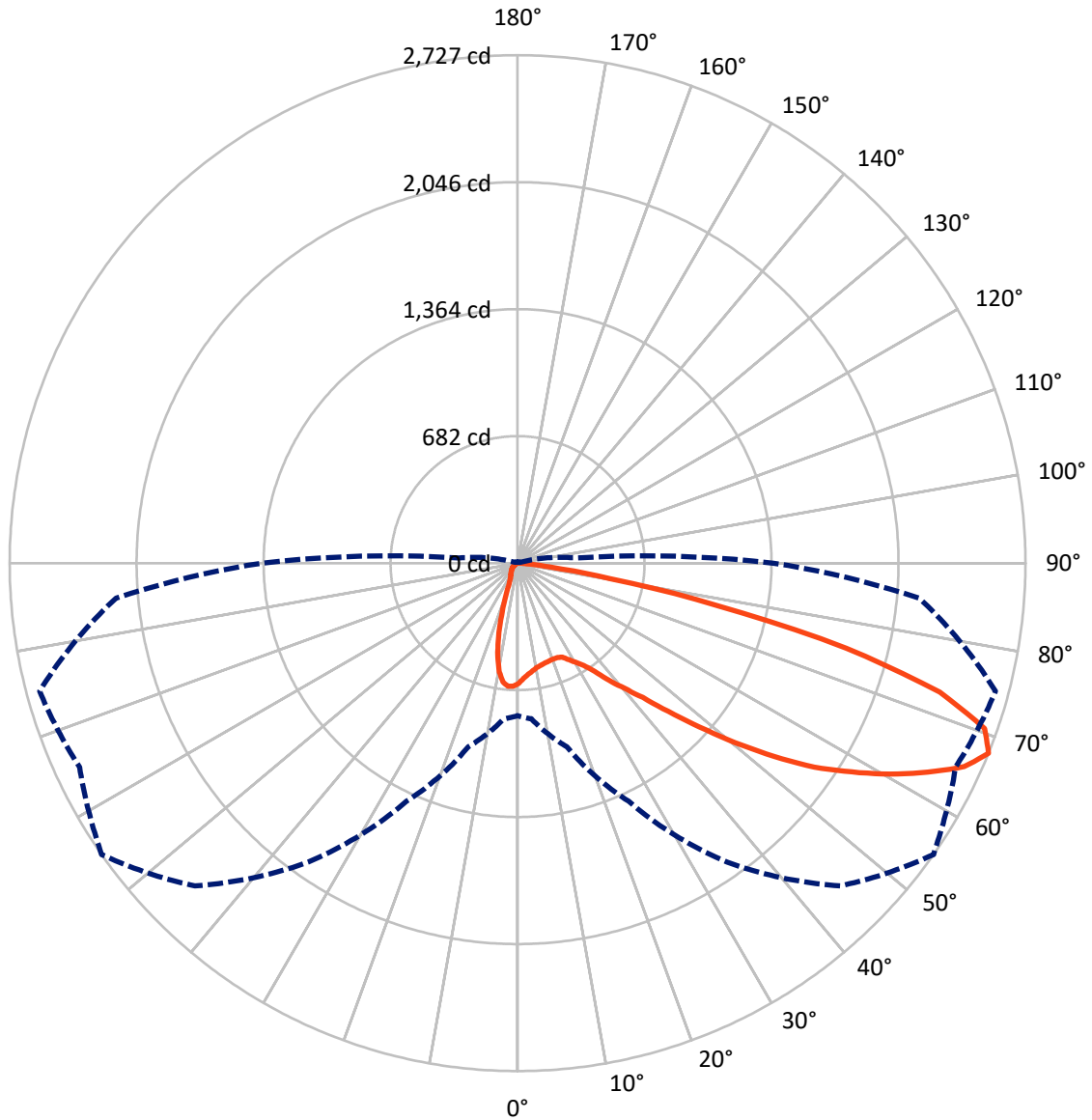
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P674771  
CATALOG NUMBER: CCP-SA-1D-840-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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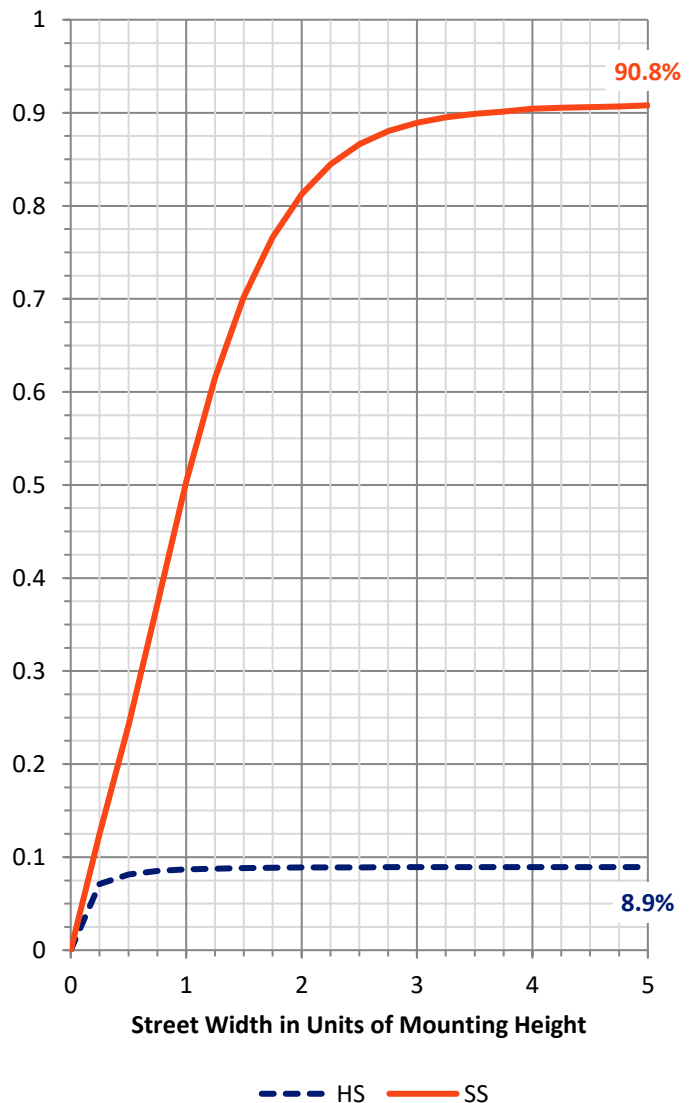
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 338.8    | 0.0    | 338.8  |
|                    | % Fixture | 9.0      | 0.0    | 9.0    |
| <b>Street Side</b> | Lumens    | 3432.3   | 0.0    | 3432.3 |
|                    | % Fixture | 91.0     | 0.0    | 91.0   |
| <b>Total</b>       | Lumens    | 3771.0   | 0.0    | 3771.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.7   | 1.5       |
| 10°-20°   | 129.1  | 3.4       |
| 20°-30°   | 207.2  | 5.5       |
| 30°-40°   | 359.3  | 9.5       |
| 40°-50°   | 599.2  | 15.9      |
| 50°-60°   | 876.2  | 23.2      |
| 60°-70°   | 1021.6 | 27.1      |
| 70°-80°   | 495.8  | 13.1      |
| 80°-90°   | 25.9   | 0.7       |
| 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°    | 3771.0 | 100.0     |
| 0°-180°   | 3771.0 | 100.0     |



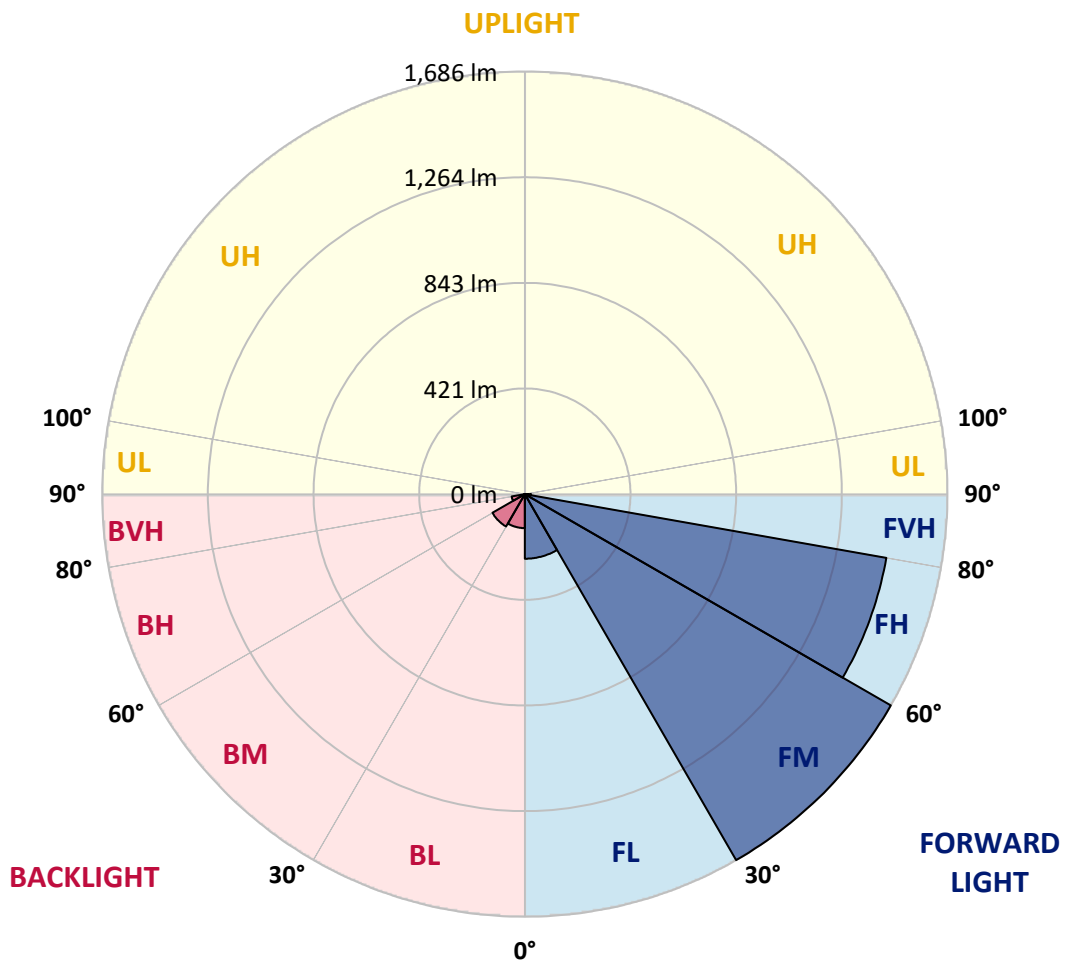
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 257.6  | 6.8       |                         |      |         |
| FM (30°-60°)   | 1685.5 | 44.7      |                         |      |         |
| FH (60°-80°)   | 1464.0 | 38.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 25.2   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 135.4  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 149.2  | 4.0       | B0/220                  |      |         |
| BH (60°-80°)   | 53.4   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.8    | 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-G1**

Type III Short





REPORT NUMBER: P674771

CATALOG NUMBER: CCP-SA-1D-840-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  | 646.2  |
| 2.5°  | 596.6  | 600.4  | 605.2  | 607.0  | 612.9  | 621.2  | 618.8  | 617.1  | 626.4  | 639.3  | 643.5  |
| 5°    | 559.4  | 559.7  | 567.4  | 572.9  | 583.0  | 591.0  | 599.7  | 599.0  | 616.0  | 637.9  | 651.8  |
| 7.5°  | 522.9  | 523.6  | 531.6  | 540.3  | 554.9  | 570.5  | 583.7  | 583.0  | 610.5  | 639.6  | 666.1  |
| 10°   | 475.0  | 478.4  | 488.2  | 503.4  | 526.4  | 551.0  | 569.5  | 571.2  | 604.2  | 646.2  | 685.5  |
| 12.5° | 436.4  | 438.1  | 448.9  | 468.7  | 495.8  | 528.1  | 562.5  | 561.5  | 605.6  | 658.4  | 710.9  |
| 15°   | 420.1  | 419.0  | 425.6  | 440.2  | 471.1  | 511.8  | 555.6  | 558.0  | 610.5  | 672.3  | 737.3  |
| 17.5° | 423.9  | 422.8  | 426.3  | 431.5  | 453.4  | 498.2  | 551.7  | 555.9  | 618.1  | 686.9  | 761.9  |
| 20°   | 466.3  | 459.0  | 452.7  | 447.2  | 450.3  | 487.1  | 549.3  | 553.8  | 622.6  | 698.0  | 788.0  |
| 22.5° | 547.9  | 538.9  | 522.2  | 491.3  | 470.8  | 487.8  | 550.0  | 555.9  | 632.7  | 716.1  | 819.6  |
| 25°   | 681.0  | 672.3  | 636.5  | 573.3  | 519.1  | 512.8  | 559.4  | 565.6  | 656.0  | 743.5  | 853.3  |
| 27.5° | 857.1  | 837.7  | 794.3  | 703.6  | 599.0  | 552.8  | 587.5  | 594.5  | 689.0  | 764.7  | 876.3  |
| 30°   | 1003.4 | 998.9  | 957.2  | 846.0  | 709.1  | 611.5  | 619.1  | 623.0  | 703.9  | 777.6  | 899.2  |
| 32.5° | 1155.3 | 1145.9 | 1107.7 | 999.6  | 837.0  | 695.2  | 654.6  | 656.3  | 723.4  | 796.7  | 932.5  |
| 35°   | 1287.3 | 1278.6 | 1246.6 | 1141.7 | 986.4  | 807.8  | 713.3  | 709.5  | 763.7  | 838.7  | 977.7  |
| 37.5° | 1409.6 | 1408.5 | 1380.4 | 1273.4 | 1120.5 | 924.6  | 799.8  | 796.7  | 826.6  | 884.9  | 1038.9 |
| 40°   | 1529.1 | 1526.3 | 1502.4 | 1404.7 | 1252.5 | 1040.9 | 882.2  | 874.2  | 880.1  | 949.6  | 1119.5 |
| 42.5° | 1602.4 | 1608.3 | 1616.7 | 1554.8 | 1409.2 | 1177.5 | 986.4  | 981.5  | 980.5  | 1050.7 | 1225.4 |
| 45°   | 1642.0 | 1652.4 | 1701.4 | 1695.9 | 1575.3 | 1347.4 | 1134.8 | 1122.2 | 1118.1 | 1189.7 | 1346.7 |
| 47.5° | 1680.6 | 1685.1 | 1765.4 | 1799.1 | 1734.4 | 1524.6 | 1314.0 | 1296.7 | 1279.6 | 1359.2 | 1491.6 |
| 50°   | 1683.0 | 1690.3 | 1789.7 | 1871.7 | 1867.9 | 1699.0 | 1515.2 | 1499.9 | 1480.5 | 1565.6 | 1633.0 |
| 52.5° | 1649.0 | 1663.6 | 1786.6 | 1917.6 | 1950.6 | 1852.9 | 1724.0 | 1711.5 | 1695.5 | 1759.1 | 1752.2 |
| 55°   | 1413.8 | 1438.4 | 1725.4 | 1921.7 | 2008.6 | 1985.0 | 1933.9 | 1916.5 | 1900.9 | 1946.0 | 1868.9 |
| 57.5° | 1301.9 | 1315.8 | 1539.9 | 1918.6 | 2082.6 | 2107.3 | 2115.9 | 2108.0 | 2086.1 | 2142.3 | 1990.9 |
| 60°   | 1234.8 | 1255.0 | 1451.3 | 1883.8 | 2162.5 | 2245.5 | 2300.1 | 2284.1 | 2257.4 | 2334.8 | 2121.5 |
| 62.5° | 1154.6 | 1169.2 | 1363.0 | 1783.8 | 2210.1 | 2386.3 | 2472.8 | 2458.2 | 2402.9 | 2512.4 | 2227.1 |
| 65°   | 1006.5 | 1028.4 | 1222.7 | 1626.4 | 2146.2 | 2489.4 | 2635.4 | 2630.5 | 2534.6 | 2646.5 | 2256.0 |
| 67.5° | 819.3  | 839.1  | 1020.1 | 1410.6 | 1959.2 | 2450.9 | 2727.4 | 2712.2 | 2594.4 | 2656.6 | 2164.6 |
| 70°   | 615.0  | 625.7  | 762.3  | 1077.8 | 1605.2 | 2244.8 | 2660.7 | 2657.6 | 2503.7 | 2507.2 | 1884.2 |
| 72.5° | 330.1  | 360.0  | 506.9  | 721.3  | 1128.8 | 1818.2 | 2371.3 | 2358.8 | 2233.7 | 2053.4 | 1355.0 |
| 75°   | 115.4  | 124.0  | 270.0  | 405.1  | 613.2  | 1211.2 | 1823.4 | 1794.2 | 1670.5 | 1335.6 | 738.3  |
| 77.5° | 70.9   | 77.8   | 119.9  | 207.1  | 238.7  | 525.7  | 1095.5 | 1057.6 | 977.7  | 577.5  | 252.2  |
| 80°   | 49.0   | 55.2   | 80.3   | 108.4  | 81.3   | 170.2  | 504.1  | 489.9  | 377.0  | 137.6  | 58.0   |
| 82.5° | 27.4   | 33.0   | 60.8   | 53.2   | 32.7   | 44.1   | 174.8  | 161.9  | 100.4  | 37.2   | 19.5   |
| 85°   | 16.0   | 19.1   | 42.7   | 37.5   | 16.7   | 15.6   | 45.5   | 40.7   | 26.1   | 13.9   | 9.4    |
| 87.5° | 8.3    | 10.8   | 31.3   | 25.0   | 10.1   | 5.6    | 10.4   | 10.1   | 6.6    | 4.9    | 6.3    |
| 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°    | 646.2  | 646.2 | 646.2 | 646.2 | 646.2 | 646.2 | 646.2 | 646.2 | 646.2 | 646.2 | 646.2 |
| 2.5°  | 651.1  | 649.4 | 658.4 | 661.5 | 660.8 | 659.5 | 662.9 | 658.4 | 658.1 | 657.0 | 656.0 |
| 5°    | 662.9  | 665.7 | 673.0 | 673.0 | 663.3 | 647.3 | 637.6 | 624.4 | 613.2 | 606.6 | 605.6 |
| 7.5°  | 680.6  | 686.2 | 691.1 | 676.1 | 642.8 | 603.2 | 561.1 | 528.1 | 499.3 | 484.3 | 482.9 |
| 10°   | 705.7  | 710.9 | 707.1 | 664.3 | 592.7 | 510.7 | 442.3 | 373.5 | 339.1 | 320.3 | 320.3 |
| 12.5° | 735.5  | 739.7 | 716.4 | 634.8 | 510.4 | 391.6 | 300.2 | 227.9 | 193.5 | 171.3 | 169.9 |
| 15°   | 767.9  | 768.9 | 715.0 | 583.4 | 408.6 | 263.0 | 172.3 | 126.5 | 111.9 | 108.8 | 108.1 |
| 17.5° | 796.0  | 791.8 | 700.4 | 507.3 | 294.3 | 156.7 | 109.4 | 99.0  | 96.2  | 96.2  | 96.2  |
| 20°   | 822.4  | 808.5 | 671.3 | 418.7 | 188.7 | 106.7 | 94.2  | 91.4  | 91.4  | 91.7  | 91.7  |
| 22.5° | 851.6  | 824.1 | 629.6 | 320.3 | 121.3 | 91.4  | 88.3  | 86.9  | 86.5  | 87.6  | 87.2  |
| 25°   | 886.0  | 839.4 | 569.8 | 221.3 | 93.8  | 85.1  | 83.7  | 82.3  | 82.3  | 82.3  | 82.3  |
| 27.5° | 905.1  | 837.3 | 501.7 | 139.7 | 82.0  | 78.9  | 77.5  | 76.1  | 75.0  | 74.7  | 75.0  |
| 30°   | 921.8  | 825.2 | 412.8 | 97.6  | 74.0  | 70.5  | 69.5  | 67.8  | 65.7  | 65.0  | 65.0  |
| 32.5° | 943.7  | 815.1 | 319.6 | 78.5  | 67.1  | 63.2  | 60.1  | 57.3  | 53.9  | 52.5  | 52.1  |
| 35°   | 968.0  | 796.7 | 234.2 | 69.1  | 60.8  | 55.9  | 51.1  | 46.6  | 42.0  | 40.7  | 40.3  |
| 37.5° | 998.2  | 780.0 | 158.8 | 63.9  | 55.6  | 49.7  | 43.1  | 36.8  | 32.7  | 32.0  | 32.0  |
| 40°   | 1039.2 | 766.1 | 109.8 | 59.4  | 50.7  | 43.8  | 35.8  | 29.2  | 26.4  | 25.7  | 25.7  |
| 42.5° | 1095.1 | 754.7 | 83.0  | 55.6  | 46.6  | 37.9  | 28.8  | 24.0  | 21.9  | 21.2  | 21.2  |
| 45°   | 1161.2 | 736.9 | 70.2  | 52.1  | 42.4  | 32.0  | 24.0  | 20.2  | 19.1  | 19.1  | 19.1  |
| 47.5° | 1236.9 | 714.7 | 63.9  | 48.6  | 37.9  | 26.1  | 20.2  | 18.4  | 18.1  | 18.1  | 18.4  |
| 50°   | 1313.3 | 688.3 | 59.4  | 44.5  | 32.7  | 22.2  | 18.4  | 17.4  | 17.4  | 17.7  | 17.7  |
| 52.5° | 1365.1 | 646.9 | 54.9  | 40.0  | 27.4  | 19.5  | 17.4  | 17.0  | 16.7  | 16.7  | 16.7  |
| 55°   | 1415.5 | 610.8 | 48.6  | 35.1  | 22.9  | 18.1  | 16.7  | 16.3  | 16.3  | 16.0  | 16.0  |
| 57.5° | 1468.0 | 582.3 | 40.7  | 29.2  | 19.5  | 17.0  | 16.0  | 16.0  | 15.3  | 14.9  | 14.9  |
| 60°   | 1528.8 | 557.3 | 31.3  | 22.9  | 17.0  | 16.0  | 14.9  | 14.6  | 13.9  | 13.2  | 13.2  |
| 62.5° | 1546.5 | 504.5 | 23.6  | 18.4  | 14.6  | 13.9  | 13.6  | 12.9  | 11.1  | 9.7   | 10.1  |
| 65°   | 1500.3 | 421.5 | 18.8  | 14.6  | 11.8  | 11.8  | 10.8  | 9.0   | 7.3   | 6.3   | 6.3   |
| 67.5° | 1372.8 | 314.8 | 15.3  | 11.5  | 9.4   | 9.0   | 7.6   | 6.6   | 4.5   | 3.8   | 3.8   |
| 70°   | 1131.3 | 208.1 | 12.5  | 9.0   | 7.6   | 6.3   | 5.2   | 4.9   | 3.5   | 2.8   | 2.8   |
| 72.5° | 792.9  | 112.9 | 10.4  | 7.3   | 5.6   | 4.2   | 3.5   | 3.1   | 2.4   | 2.1   | 1.7   |
| 75°   | 418.7  | 43.4  | 8.3   | 5.6   | 3.5   | 2.8   | 2.1   | 2.1   | 1.7   | 1.4   | 1.4   |
| 77.5° | 143.5  | 18.4  | 5.9   | 3.1   | 2.4   | 1.7   | 1.4   | 1.0   | 1.4   | 1.0   | 1.0   |
| 80°   | 34.0   | 10.8  | 3.8   | 2.1   | 1.4   | 1.0   | 1.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 82.5° | 14.9   | 6.3   | 2.4   | 1.4   | 1.4   | 1.0   | 0.7   | 0.3   | 0.3   | 0.3   | 0.3   |
| 85°   | 10.1   | 3.8   | 1.7   | 1.4   | 1.0   | 0.7   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 8.0    | 2.4   | 1.4   | 1.4   | 1.0   | 0.7   | 0.3   | 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)