

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: P673246

Luminaire Tested: **CCP-SA-2A-730-U-T3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673246  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-730-U-T3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T3 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

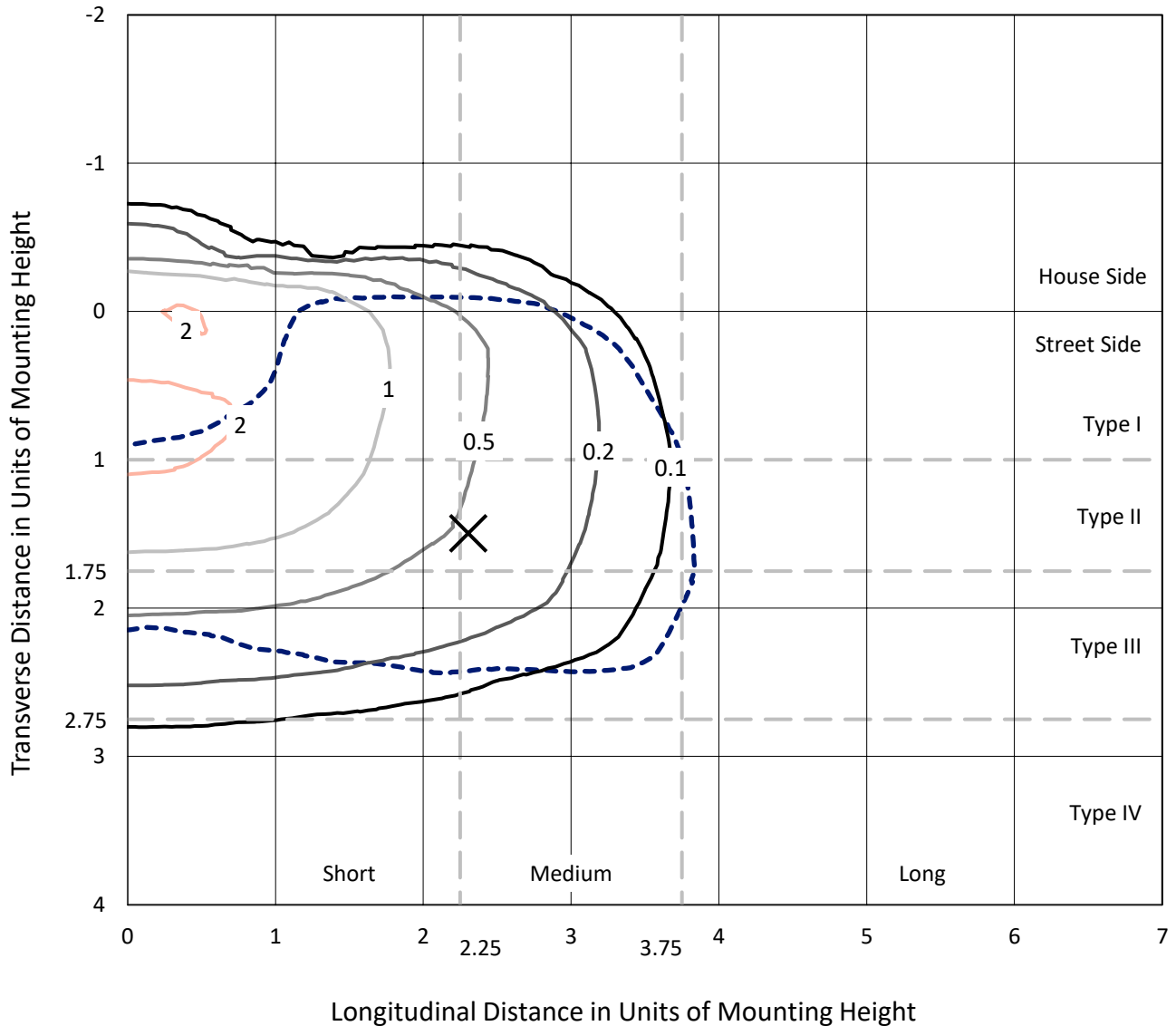
Lumens per Lamp: N/A  
Luminaire Lumens: 3589.4 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

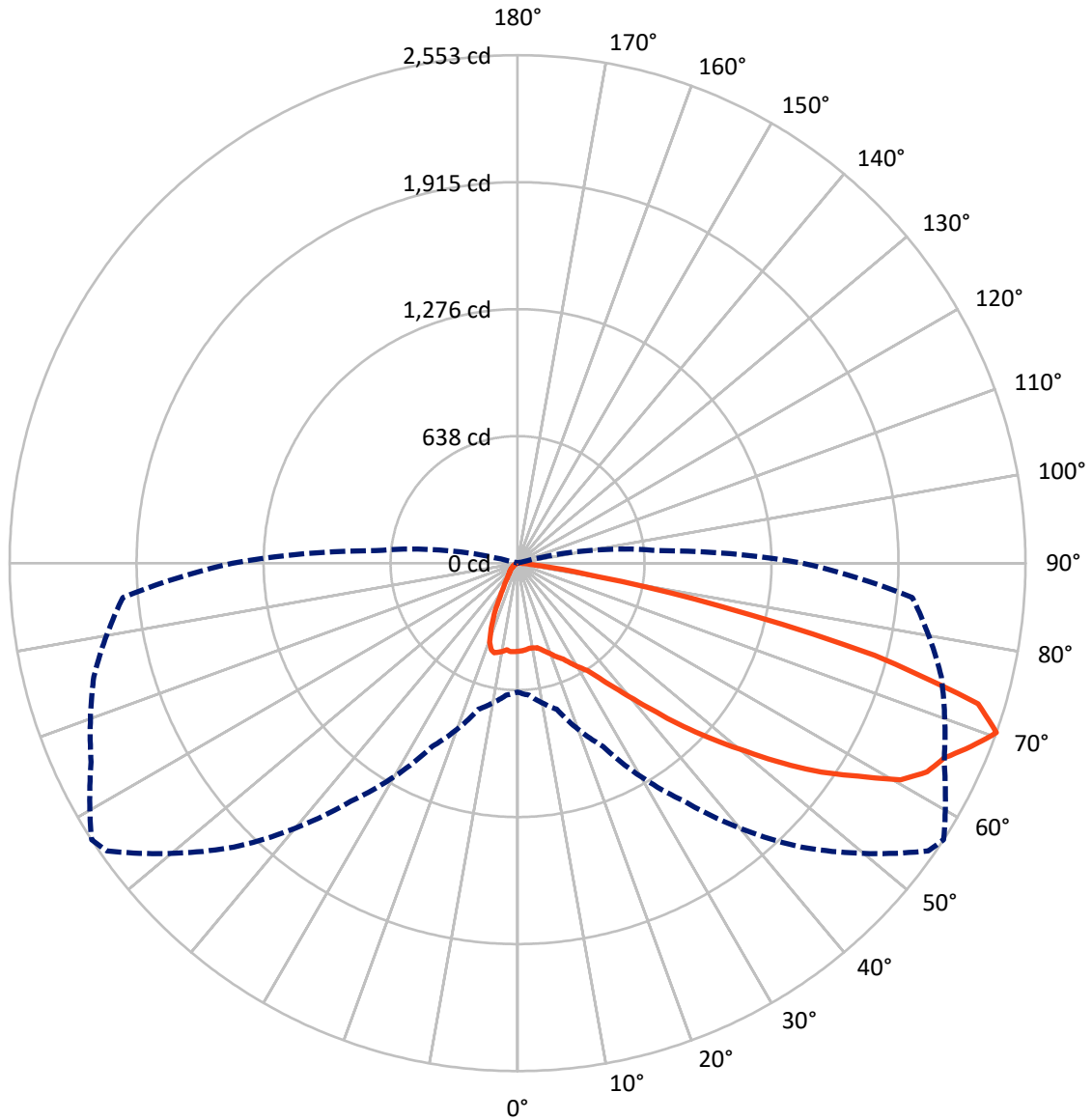
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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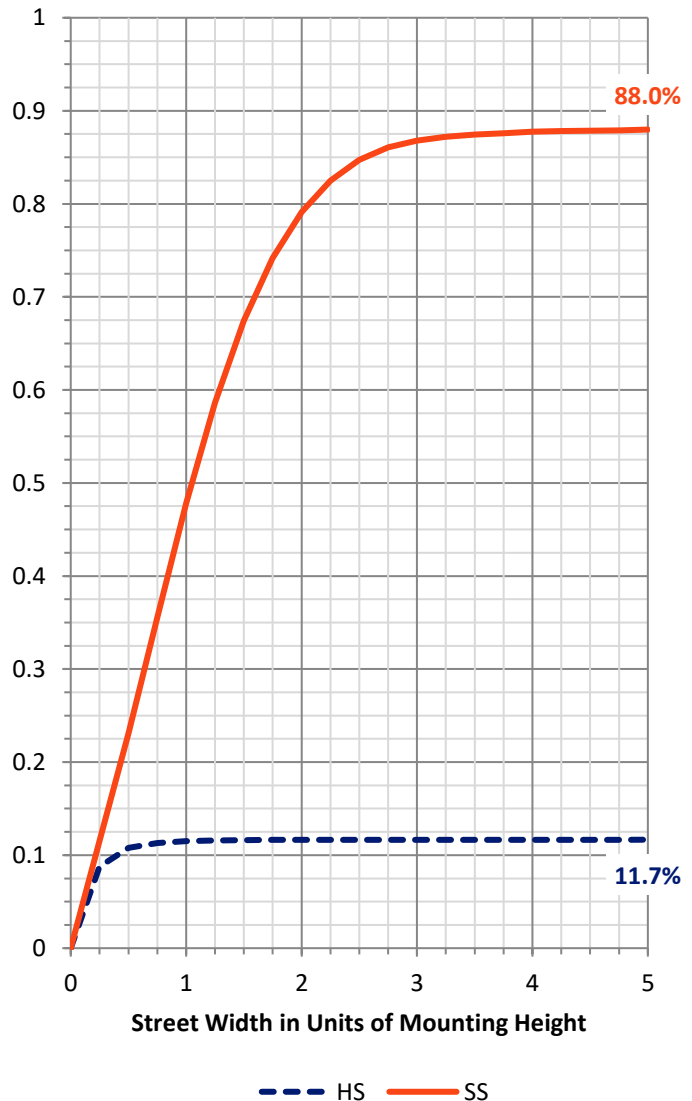
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 423.1    | 0.0    | 423.1  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 3166.3   | 0.0    | 3166.3 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 3589.4   | 0.0    | 3589.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.4   | 1.2       |
| 10°-20°   | 115.7  | 3.2       |
| 20°-30°   | 194.9  | 5.4       |
| 30°-40°   | 333.6  | 9.3       |
| 40°-50°   | 560.1  | 15.6      |
| 50°-60°   | 859.8  | 24.0      |
| 60°-70°   | 992.7  | 27.7      |
| 70°-80°   | 468.9  | 13.1      |
| 80°-90°   | 22.2   | 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°    | 3589.4 | 100.0     |
| 0°-180°   | 3589.4 | 100.0     |



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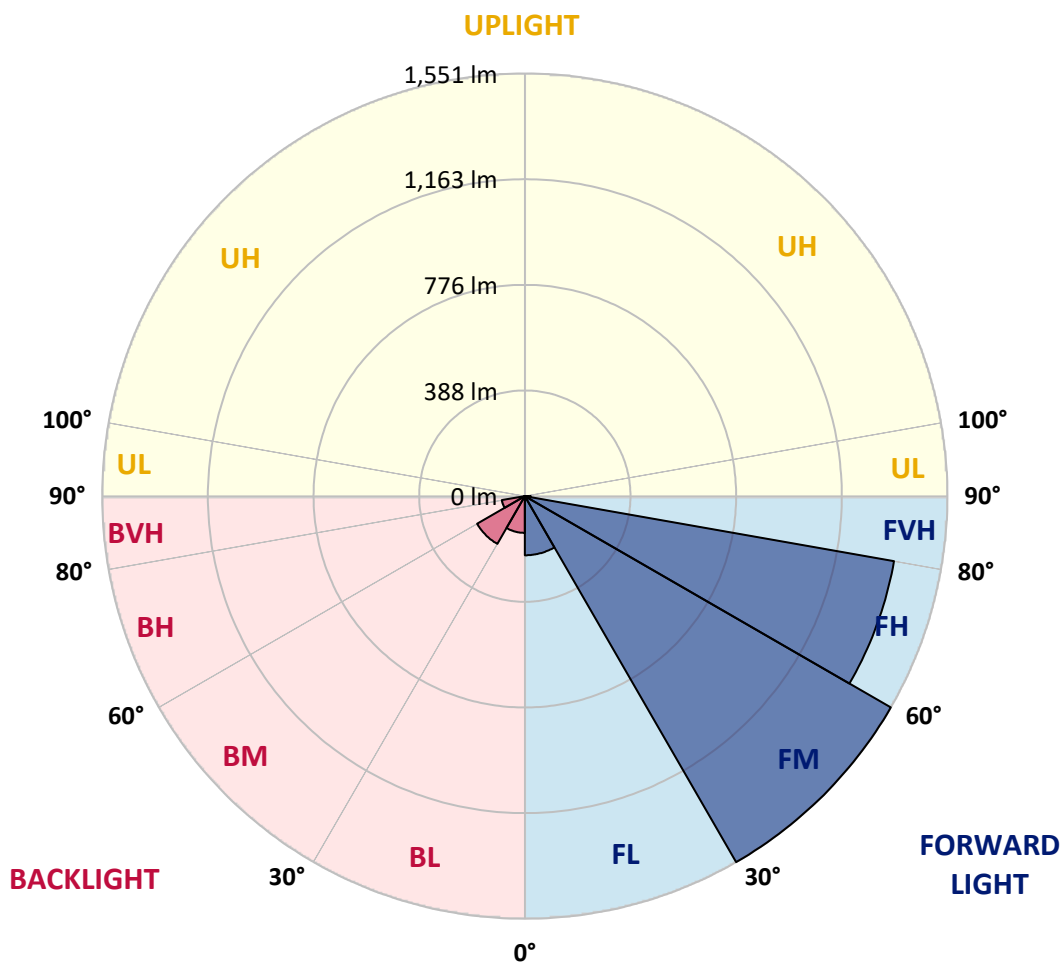
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 217.2  | 6.0       |                         |      |         |
| FM (30°-60°)   | 1551.3 | 43.2      |                         |      |         |
| FH (60°-80°)   | 1376.0 | 38.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 21.9   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 134.9  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 202.2  | 5.6       | B0/220                  |      |         |
| BH (60°-80°)   | 85.6   | 2.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.4    | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  | 442.9  |
| 2.5°  | 436.5  | 433.7  | 436.5  | 440.1  | 436.5  | 439.2  | 438.3  | 441.1  | 437.4  | 437.4  | 440.1  |
| 5°    | 408.0  | 412.6  | 414.5  | 419.0  | 423.6  | 431.9  | 437.4  | 437.4  | 442.9  | 445.6  | 449.3  |
| 7.5°  | 398.0  | 390.6  | 398.0  | 401.6  | 406.2  | 420.0  | 428.2  | 431.9  | 439.2  | 449.3  | 454.8  |
| 10°   | 383.3  | 388.8  | 388.8  | 400.7  | 407.1  | 415.4  | 430.1  | 432.8  | 449.3  | 459.4  | 464.9  |
| 12.5° | 382.4  | 382.4  | 387.0  | 395.2  | 408.0  | 423.6  | 442.0  | 436.5  | 453.9  | 472.2  | 481.4  |
| 15°   | 385.1  | 391.5  | 391.5  | 402.5  | 412.6  | 434.6  | 450.2  | 451.1  | 475.9  | 494.2  | 502.5  |
| 17.5° | 397.0  | 394.3  | 398.0  | 404.4  | 420.0  | 441.1  | 466.7  | 469.5  | 497.9  | 522.7  | 534.6  |
| 20°   | 421.8  | 426.4  | 420.9  | 417.2  | 423.6  | 451.1  | 484.2  | 489.7  | 521.7  | 545.6  | 557.5  |
| 22.5° | 514.4  | 510.7  | 488.7  | 463.1  | 452.1  | 464.9  | 500.7  | 513.5  | 551.1  | 579.5  | 589.6  |
| 25°   | 618.9  | 612.5  | 586.8  | 548.3  | 497.9  | 492.4  | 533.7  | 533.7  | 587.8  | 618.9  | 616.2  |
| 27.5° | 718.0  | 716.1  | 685.9  | 645.5  | 574.0  | 534.6  | 560.3  | 570.3  | 629.0  | 654.7  | 642.8  |
| 30°   | 818.8  | 820.7  | 793.2  | 744.6  | 669.4  | 602.4  | 597.9  | 606.1  | 660.2  | 700.6  | 675.8  |
| 32.5° | 936.2  | 919.7  | 900.4  | 833.5  | 764.7  | 689.5  | 646.5  | 642.8  | 695.1  | 731.7  | 698.7  |
| 35°   | 1040.7 | 1030.7 | 1009.6 | 949.0  | 870.2  | 780.3  | 719.8  | 710.6  | 739.1  | 787.7  | 751.9  |
| 37.5° | 1132.4 | 1122.4 | 1094.8 | 1054.5 | 993.1  | 893.1  | 807.8  | 794.1  | 806.0  | 857.4  | 814.3  |
| 40°   | 1211.3 | 1214.0 | 1206.7 | 1167.3 | 1110.4 | 1019.7 | 921.5  | 899.5  | 889.4  | 935.3  | 886.7  |
| 42.5° | 1268.1 | 1294.7 | 1296.6 | 1248.0 | 1202.1 | 1152.6 | 1042.6 | 1025.2 | 1001.3 | 1039.8 | 1005.9 |
| 45°   | 1387.3 | 1372.7 | 1381.8 | 1364.4 | 1314.0 | 1306.7 | 1182.0 | 1171.9 | 1138.9 | 1151.7 | 1115.9 |
| 47.5° | 1480.9 | 1478.1 | 1495.6 | 1467.1 | 1453.4 | 1454.3 | 1340.6 | 1323.2 | 1276.4 | 1300.2 | 1259.9 |
| 50°   | 1535.0 | 1520.3 | 1583.6 | 1605.6 | 1602.8 | 1613.8 | 1501.1 | 1486.4 | 1441.4 | 1476.3 | 1390.1 |
| 52.5° | 1547.8 | 1574.4 | 1634.0 | 1713.8 | 1747.7 | 1770.6 | 1676.2 | 1670.7 | 1622.1 | 1644.1 | 1524.9 |
| 55°   | 1579.9 | 1605.6 | 1640.4 | 1771.6 | 1897.2 | 1902.7 | 1848.6 | 1854.1 | 1811.0 | 1805.5 | 1653.3 |
| 57.5° | 1579.0 | 1573.5 | 1669.8 | 1822.0 | 1996.2 | 2075.1 | 2045.7 | 2019.1 | 1972.4 | 1918.3 | 1735.8 |
| 60°   | 1521.2 | 1518.5 | 1618.4 | 1828.4 | 2050.3 | 2230.9 | 2242.9 | 2211.7 | 2094.3 | 2014.5 | 1833.0 |
| 62.5° | 1406.6 | 1417.6 | 1518.5 | 1773.4 | 2101.7 | 2286.9 | 2330.9 | 2309.8 | 2164.0 | 2078.7 | 1947.6 |
| 65°   | 1275.5 | 1252.6 | 1369.9 | 1635.8 | 1986.1 | 2270.4 | 2365.7 | 2358.4 | 2246.5 | 2148.4 | 2053.1 |
| 67.5° | 1023.3 | 1033.4 | 1123.3 | 1407.5 | 1789.0 | 2209.9 | 2447.3 | 2458.4 | 2312.6 | 2209.9 | 2085.2 |
| 70°   | 648.3  | 666.6  | 760.2  | 1016.9 | 1460.7 | 2019.1 | 2520.7 | 2552.8 | 2364.8 | 2204.4 | 1991.6 |
| 72.5° | 188.9  | 196.2  | 323.7  | 507.1  | 930.7  | 1619.3 | 2403.3 | 2419.8 | 2263.0 | 2000.8 | 1540.5 |
| 75°   | 62.4   | 66.0   | 95.4   | 165.1  | 364.9  | 837.2  | 1775.2 | 1853.2 | 1800.9 | 1450.6 | 881.2  |
| 77.5° | 41.3   | 43.1   | 52.3   | 78.9   | 138.5  | 262.2  | 951.8  | 1035.2 | 1015.1 | 679.5  | 284.3  |
| 80°   | 30.3   | 31.2   | 38.5   | 53.2   | 84.4   | 94.4   | 351.2  | 406.2  | 392.5  | 155.9  | 56.9   |
| 82.5° | 19.3   | 19.3   | 28.4   | 37.6   | 53.2   | 46.8   | 101.8  | 112.8  | 110.0  | 59.6   | 22.0   |
| 85°   | 12.8   | 13.8   | 21.1   | 29.3   | 29.3   | 22.0   | 29.3   | 33.9   | 36.7   | 32.1   | 10.1   |
| 87.5° | 3.7    | 4.6    | 11.9   | 20.2   | 11.9   | 11.0   | 10.1   | 11.0   | 12.8   | 17.4   | 5.5    |
| 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°    | 442.9  | 442.9  | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 |
| 2.5°  | 442.9  | 446.6  | 445.6 | 447.5 | 444.7 | 442.0 | 444.7 | 444.7 | 444.7 | 442.0 | 440.1 |
| 5°    | 446.6  | 444.7  | 446.6 | 442.9 | 446.6 | 442.9 | 441.1 | 435.6 | 434.6 | 434.6 | 438.3 |
| 7.5°  | 452.1  | 453.9  | 445.6 | 445.6 | 437.4 | 439.2 | 434.6 | 435.6 | 433.7 | 431.0 | 429.1 |
| 10°   | 460.3  | 467.6  | 459.4 | 456.6 | 447.5 | 440.1 | 429.1 | 423.6 | 423.6 | 420.0 | 423.6 |
| 12.5° | 483.2  | 480.5  | 475.9 | 466.7 | 455.7 | 441.1 | 414.5 | 387.9 | 365.9 | 349.4 | 357.6 |
| 15°   | 501.6  | 500.7  | 494.2 | 476.8 | 462.1 | 417.2 | 350.3 | 281.5 | 244.8 | 228.3 | 225.6 |
| 17.5° | 530.0  | 527.2  | 516.2 | 493.3 | 444.7 | 345.7 | 240.2 | 182.5 | 146.7 | 138.5 | 135.7 |
| 20°   | 556.6  | 555.7  | 531.8 | 502.5 | 400.7 | 252.2 | 156.8 | 120.1 | 110.0 | 111.0 | 109.1 |
| 22.5° | 585.0  | 580.4  | 552.0 | 491.5 | 319.1 | 167.8 | 111.9 | 107.3 | 103.6 | 102.7 | 104.5 |
| 25°   | 617.1  | 600.6  | 572.2 | 466.7 | 234.7 | 115.5 | 105.4 | 101.8 | 98.1  | 97.2  | 97.2  |
| 27.5° | 629.9  | 618.9  | 581.3 | 407.1 | 148.5 | 100.9 | 99.0  | 94.4  | 89.9  | 87.1  | 86.2  |
| 30°   | 659.3  | 641.0  | 590.5 | 320.0 | 105.4 | 92.6  | 89.9  | 84.4  | 77.9  | 73.4  | 73.4  |
| 32.5° | 688.6  | 666.6  | 591.4 | 223.7 | 88.0  | 83.4  | 78.9  | 71.5  | 63.3  | 58.7  | 59.6  |
| 35°   | 725.3  | 695.1  | 581.3 | 144.9 | 78.9  | 73.4  | 64.2  | 55.9  | 48.6  | 44.9  | 44.9  |
| 37.5° | 787.7  | 759.2  | 540.1 | 95.4  | 71.5  | 62.4  | 53.2  | 44.0  | 37.6  | 34.8  | 34.8  |
| 40°   | 866.5  | 829.8  | 483.2 | 75.2  | 63.3  | 53.2  | 42.2  | 33.9  | 30.3  | 27.5  | 27.5  |
| 42.5° | 961.0  | 915.1  | 398.9 | 66.9  | 55.9  | 44.0  | 33.0  | 26.6  | 22.9  | 22.9  | 22.0  |
| 45°   | 1055.4 | 980.2  | 312.7 | 61.4  | 49.5  | 36.7  | 25.7  | 21.1  | 19.3  | 18.3  | 18.3  |
| 47.5° | 1190.2 | 1059.1 | 223.7 | 55.9  | 43.1  | 28.4  | 21.1  | 17.4  | 15.6  | 14.7  | 15.6  |
| 50°   | 1319.5 | 1133.4 | 158.6 | 50.4  | 35.8  | 22.9  | 17.4  | 15.6  | 13.8  | 12.8  | 12.8  |
| 52.5° | 1433.2 | 1184.7 | 111.0 | 44.0  | 30.3  | 19.3  | 15.6  | 13.8  | 12.8  | 11.9  | 11.9  |
| 55°   | 1495.6 | 1167.3 | 76.1  | 37.6  | 24.8  | 16.5  | 13.8  | 11.9  | 11.0  | 10.1  | 10.1  |
| 57.5° | 1559.7 | 1118.7 | 57.8  | 31.2  | 20.2  | 15.6  | 12.8  | 11.0  | 10.1  | 9.2   | 9.2   |
| 60°   | 1613.8 | 1082.9 | 44.9  | 24.8  | 16.5  | 12.8  | 11.0  | 9.2   | 8.3   | 7.3   | 6.4   |
| 62.5° | 1616.6 | 1011.4 | 33.0  | 18.3  | 12.8  | 11.0  | 9.2   | 7.3   | 4.6   | 3.7   | 2.8   |
| 65°   | 1627.6 | 936.2  | 23.8  | 13.8  | 9.2   | 8.3   | 6.4   | 3.7   | 1.8   | 0.0   | 0.0   |
| 67.5° | 1589.1 | 847.3  | 19.3  | 10.1  | 6.4   | 4.6   | 2.8   | 0.9   | 0.0   | 0.0   | 0.0   |
| 70°   | 1432.3 | 715.2  | 14.7  | 7.3   | 4.6   | 2.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1025.2 | 464.9  | 10.1  | 5.5   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 546.5  | 198.1  | 7.3   | 3.7   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 171.5  | 50.4   | 4.6   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 37.6   | 13.8   | 2.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 12.8   | 5.5    | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.6    | 1.8    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.8    | 0.9    | 0.9   | 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)