

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: P674581

Luminaire Tested: **CCP-SA-1B-760-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674581  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-760-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

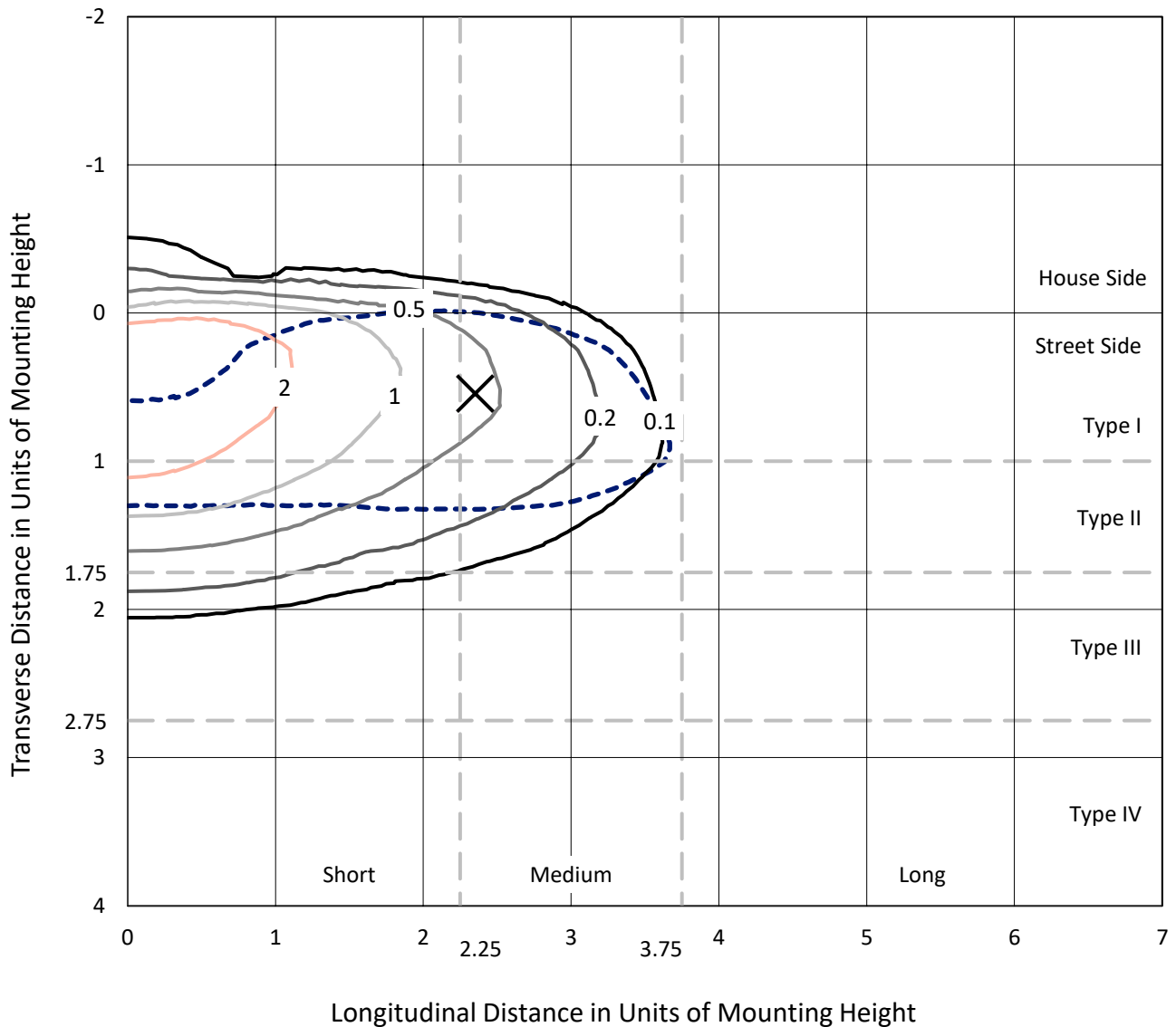
Lumens per Lamp: N/A  
Luminaire Lumens: 2860.4 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 24  
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

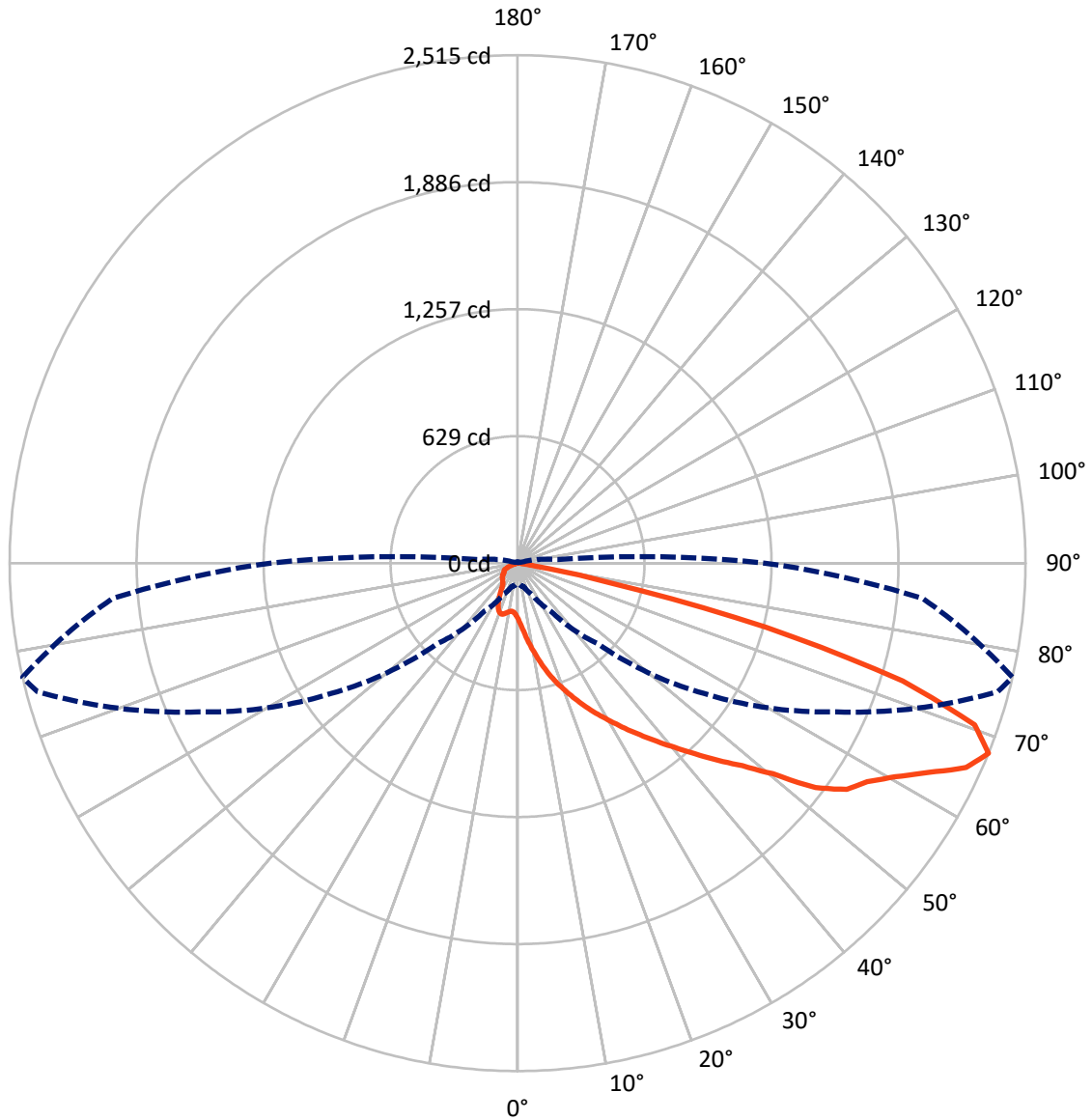
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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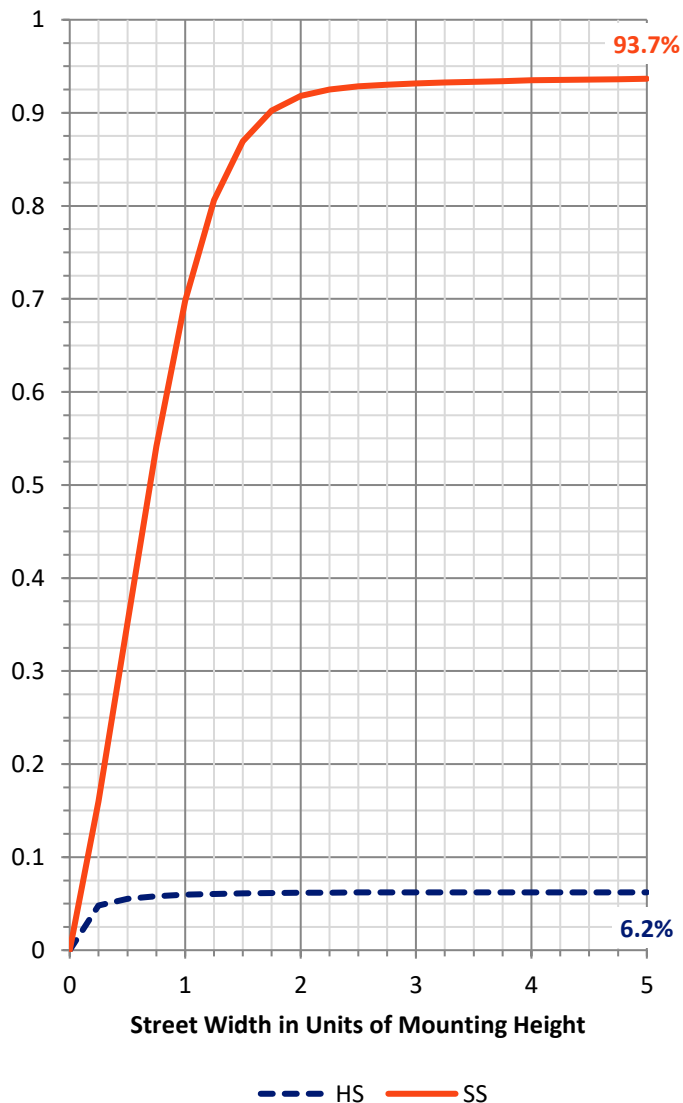
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 178.7    | 0.0    | 178.7  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 2681.7   | 0.0    | 2681.7 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 2860.4   | 0.0    | 2860.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.2   | 1.1       |
| 10°-20°   | 119.1  | 4.2       |
| 20°-30°   | 232.6  | 8.1       |
| 30°-40°   | 406.7  | 14.2      |
| 40°-50°   | 593.2  | 20.7      |
| 50°-60°   | 693.6  | 24.2      |
| 60°-70°   | 562.3  | 19.7      |
| 70°-80°   | 211.2  | 7.4       |
| 80°-90°   | 9.6    | 0.3       |
| 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°    | 2860.4 | 100.0     |
| 0°-180°   | 2860.4 | 100.0     |

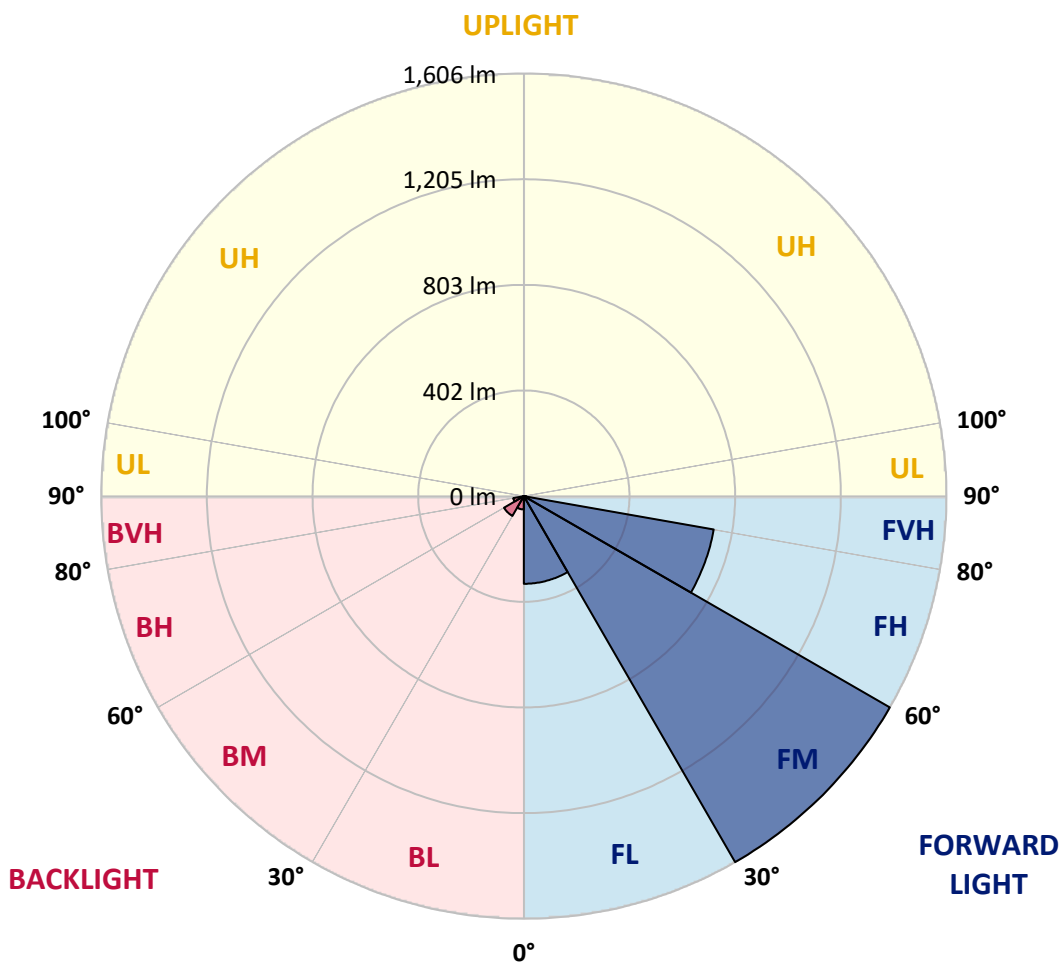


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 333.2  | 11.6      |                         |      |         |
| FM (30°-60°)   | 1606.5 | 56.2      |                         |      |         |
| FH (60°-80°)   | 732.9  | 25.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 9.0    | 0.3       |                         |      | G0/10   |
| BL (0°-30°)    | 50.7   | 1.8       | B0/110                  |      |         |
| BM (30°-60°)   | 87.0   | 3.0       | B0/220                  |      |         |
| BH (60°-80°)   | 40.5   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  | 274.0  |
| 2.5°  | 411.4  | 396.4  | 399.2  | 393.0  | 385.0  | 366.4  | 346.8  | 327.2  | 309.6  | 305.7  | 288.2  |
| 5°    | 526.8  | 522.1  | 517.2  | 513.1  | 496.3  | 473.1  | 437.7  | 392.8  | 352.2  | 345.2  | 308.8  |
| 7.5°  | 616.4  | 609.4  | 613.8  | 601.1  | 583.6  | 561.1  | 516.2  | 468.2  | 405.7  | 395.3  | 338.8  |
| 10°   | 682.5  | 678.6  | 680.7  | 674.7  | 666.2  | 643.8  | 599.3  | 539.2  | 466.9  | 447.2  | 372.4  |
| 12.5° | 732.1  | 732.8  | 741.9  | 742.4  | 735.4  | 717.1  | 670.1  | 607.3  | 522.4  | 504.8  | 409.5  |
| 15°   | 768.2  | 769.0  | 780.1  | 792.0  | 800.0  | 790.4  | 747.8  | 677.6  | 587.7  | 563.7  | 448.5  |
| 17.5° | 774.2  | 774.7  | 794.3  | 818.3  | 843.1  | 851.4  | 818.6  | 747.3  | 647.4  | 620.0  | 493.2  |
| 20°   | 778.0  | 782.4  | 800.0  | 827.6  | 866.9  | 892.4  | 874.6  | 814.2  | 705.2  | 673.4  | 537.1  |
| 22.5° | 825.0  | 825.0  | 835.4  | 855.0  | 886.2  | 926.2  | 922.6  | 875.6  | 761.5  | 730.0  | 580.7  |
| 25°   | 924.7  | 924.7  | 914.6  | 909.5  | 926.2  | 957.8  | 966.8  | 941.2  | 825.8  | 788.6  | 626.7  |
| 27.5° | 1056.7 | 1056.7 | 1040.9 | 1002.9 | 988.5  | 1001.6 | 1011.2 | 998.3  | 885.2  | 848.5  | 675.3  |
| 30°   | 1193.5 | 1198.2 | 1170.8 | 1122.5 | 1071.9 | 1061.8 | 1052.5 | 1049.7 | 948.5  | 907.1  | 724.6  |
| 32.5° | 1330.9 | 1330.4 | 1296.3 | 1236.1 | 1170.0 | 1134.4 | 1104.2 | 1100.8 | 1015.6 | 975.1  | 771.3  |
| 35°   | 1440.6 | 1440.9 | 1405.0 | 1343.3 | 1266.8 | 1221.4 | 1172.9 | 1157.1 | 1089.2 | 1044.0 | 827.1  |
| 37.5° | 1535.7 | 1530.2 | 1491.5 | 1432.9 | 1361.6 | 1314.6 | 1254.2 | 1213.1 | 1165.4 | 1119.4 | 882.9  |
| 40°   | 1590.1 | 1582.9 | 1545.2 | 1489.4 | 1435.5 | 1399.6 | 1346.4 | 1280.8 | 1249.0 | 1199.4 | 946.4  |
| 42.5° | 1598.1 | 1591.9 | 1566.9 | 1533.3 | 1489.2 | 1457.7 | 1443.5 | 1357.2 | 1336.8 | 1291.9 | 1022.3 |
| 45°   | 1575.7 | 1565.6 | 1557.3 | 1539.8 | 1527.4 | 1512.2 | 1531.5 | 1438.6 | 1437.5 | 1392.9 | 1097.4 |
| 47.5° | 1519.9 | 1506.2 | 1508.3 | 1527.7 | 1541.6 | 1555.3 | 1615.7 | 1545.2 | 1539.0 | 1497.2 | 1196.1 |
| 50°   | 1424.6 | 1417.9 | 1440.6 | 1478.8 | 1534.1 | 1588.8 | 1699.6 | 1654.2 | 1678.7 | 1639.5 | 1332.2 |
| 52.5° | 1231.0 | 1239.2 | 1307.1 | 1399.1 | 1494.6 | 1604.6 | 1778.4 | 1816.9 | 1879.6 | 1847.3 | 1469.0 |
| 55°   | 998.6  | 995.5  | 1086.1 | 1249.3 | 1401.9 | 1594.5 | 1812.7 | 1912.7 | 2011.3 | 1977.5 | 1545.2 |
| 57.5° | 804.4  | 809.8  | 871.0  | 1032.4 | 1244.6 | 1516.8 | 1820.7 | 1962.8 | 2064.2 | 2041.8 | 1615.7 |
| 60°   | 603.7  | 608.9  | 664.7  | 805.1  | 1035.5 | 1354.6 | 1754.6 | 1980.3 | 2163.7 | 2146.6 | 1728.3 |
| 62.5° | 384.2  | 391.0  | 447.0  | 583.6  | 791.5  | 1102.6 | 1606.2 | 1962.0 | 2267.5 | 2281.7 | 1881.9 |
| 65°   | 189.0  | 195.0  | 236.3  | 340.9  | 529.1  | 824.5  | 1399.1 | 1892.0 | 2399.7 | 2440.2 | 2005.1 |
| 67.5° | 104.6  | 107.4  | 121.6  | 173.5  | 295.1  | 565.5  | 1124.3 | 1742.5 | 2460.4 | 2514.6 | 2013.4 |
| 70°   | 81.3   | 82.1   | 87.5   | 101.2  | 143.8  | 331.8  | 799.7  | 1493.6 | 2334.6 | 2400.2 | 1845.8 |
| 72.5° | 68.4   | 69.5   | 72.0   | 76.7   | 89.9   | 172.8  | 502.5  | 1154.3 | 1964.3 | 1994.0 | 1428.0 |
| 75°   | 50.1   | 51.6   | 58.9   | 63.0   | 71.0   | 104.8  | 221.6  | 693.6  | 1298.1 | 1268.9 | 798.9  |
| 77.5° | 42.1   | 43.4   | 45.2   | 51.1   | 58.6   | 71.5   | 77.7   | 290.8  | 528.3  | 459.4  | 209.7  |
| 80°   | 28.7   | 30.2   | 35.1   | 38.2   | 49.6   | 47.3   | 32.3   | 78.0   | 106.1  | 86.5   | 40.3   |
| 82.5° | 20.4   | 21.7   | 24.3   | 31.2   | 35.9   | 25.0   | 17.6   | 23.8   | 25.6   | 24.3   | 13.2   |
| 85°   | 6.5    | 8.3    | 17.6   | 25.8   | 19.4   | 8.5    | 11.1   | 9.0    | 8.0    | 7.7    | 5.2    |
| 87.5° | 1.3    | 1.3    | 8.8    | 10.3   | 7.7    | 4.4    | 3.9    | 2.8    | 3.6    | 3.6    | 2.8    |
| 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°    | 274.0  | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 | 274.0 |
| 2.5°  | 279.9  | 268.3 | 251.5 | 235.8 | 219.7 | 208.4 | 200.4 | 192.4 | 189.3 | 188.0 | 184.6 |
| 5°    | 292.3  | 270.1 | 236.8 | 209.9 | 190.3 | 177.9 | 170.4 | 164.0 | 159.8 | 158.5 | 156.7 |
| 7.5°  | 310.1  | 278.1 | 230.3 | 199.3 | 179.7 | 166.3 | 154.2 | 140.2 | 129.1 | 124.7 | 122.9 |
| 10°   | 329.5  | 290.2 | 231.4 | 197.3 | 171.2 | 141.8 | 114.7 | 92.2  | 82.4  | 78.8  | 76.2  |
| 12.5° | 357.9  | 303.7 | 235.8 | 195.0 | 145.6 | 101.2 | 73.3  | 64.0  | 61.7  | 61.2  | 60.7  |
| 15°   | 386.3  | 322.5 | 243.0 | 179.5 | 108.7 | 68.9  | 60.9  | 57.6  | 56.3  | 55.0  | 55.0  |
| 17.5° | 415.0  | 340.6 | 245.8 | 149.3 | 75.1  | 59.6  | 55.5  | 52.7  | 50.6  | 49.6  | 48.8  |
| 20°   | 447.2  | 359.7 | 237.6 | 112.3 | 60.2  | 54.5  | 49.8  | 46.5  | 44.7  | 43.6  | 42.9  |
| 22.5° | 482.1  | 378.6 | 219.5 | 78.2  | 54.7  | 49.1  | 44.7  | 41.3  | 39.5  | 38.5  | 38.2  |
| 25°   | 514.9  | 394.8 | 190.6 | 58.9  | 49.3  | 43.9  | 39.8  | 36.9  | 35.6  | 34.6  | 34.3  |
| 27.5° | 548.7  | 408.8 | 152.9 | 51.9  | 44.9  | 39.8  | 35.6  | 33.3  | 32.0  | 31.2  | 31.0  |
| 30°   | 581.8  | 418.3 | 113.9 | 47.5  | 41.1  | 35.9  | 32.3  | 30.5  | 29.2  | 28.4  | 28.1  |
| 32.5° | 615.9  | 423.7 | 77.0  | 43.6  | 37.2  | 32.5  | 29.4  | 27.6  | 26.9  | 26.1  | 26.1  |
| 35°   | 648.7  | 423.0 | 55.5  | 40.0  | 34.1  | 29.4  | 26.6  | 25.3  | 25.0  | 24.3  | 24.3  |
| 37.5° | 684.6  | 417.5 | 47.3  | 36.7  | 30.7  | 26.6  | 24.3  | 23.5  | 23.2  | 22.7  | 22.5  |
| 40°   | 725.3  | 405.4 | 43.1  | 34.1  | 27.9  | 24.3  | 22.2  | 21.7  | 21.4  | 20.9  | 20.9  |
| 42.5° | 770.0  | 389.7 | 40.8  | 31.2  | 25.6  | 21.9  | 20.4  | 19.6  | 19.4  | 18.9  | 18.9  |
| 45°   | 821.9  | 374.7 | 39.2  | 28.4  | 23.5  | 20.1  | 18.6  | 17.8  | 17.6  | 17.0  | 17.0  |
| 47.5° | 892.7  | 366.2 | 36.7  | 25.8  | 21.2  | 18.3  | 16.8  | 16.3  | 15.8  | 15.2  | 15.2  |
| 50°   | 990.0  | 356.1 | 33.3  | 23.2  | 19.4  | 16.5  | 15.5  | 14.7  | 14.5  | 13.9  | 13.9  |
| 52.5° | 1070.1 | 334.7 | 30.0  | 20.7  | 17.3  | 15.2  | 14.2  | 13.7  | 13.2  | 12.9  | 12.9  |
| 55°   | 1098.2 | 309.6 | 26.6  | 18.6  | 15.8  | 14.2  | 13.2  | 12.7  | 12.4  | 12.1  | 12.1  |
| 57.5° | 1143.2 | 301.6 | 23.5  | 16.5  | 14.2  | 13.2  | 12.1  | 11.9  | 11.6  | 11.4  | 11.1  |
| 60°   | 1219.8 | 306.3 | 20.7  | 14.7  | 12.9  | 11.9  | 11.1  | 10.8  | 10.3  | 9.8   | 9.8   |
| 62.5° | 1294.2 | 300.6 | 17.6  | 12.9  | 11.1  | 10.6  | 9.8   | 9.3   | 8.3   | 7.5   | 7.0   |
| 65°   | 1312.3 | 262.6 | 15.2  | 10.8  | 9.3   | 8.8   | 8.0   | 7.0   | 5.4   | 4.4   | 4.4   |
| 67.5° | 1224.8 | 199.6 | 13.2  | 9.3   | 7.7   | 7.2   | 5.7   | 4.6   | 3.4   | 2.6   | 2.6   |
| 70°   | 1010.7 | 126.5 | 10.8  | 7.2   | 6.5   | 4.9   | 3.6   | 3.4   | 2.3   | 2.1   | 1.8   |
| 72.5° | 729.2  | 69.2  | 9.0   | 5.9   | 4.6   | 3.1   | 2.6   | 2.1   | 1.5   | 1.0   | 1.0   |
| 75°   | 369.3  | 32.5  | 6.7   | 4.6   | 3.1   | 2.1   | 1.5   | 1.0   | 1.0   | 0.8   | 0.8   |
| 77.5° | 104.6  | 15.0  | 4.4   | 3.1   | 2.1   | 1.3   | 1.0   | 0.8   | 0.8   | 0.5   | 0.5   |
| 80°   | 20.7   | 7.5   | 2.8   | 2.1   | 1.5   | 1.0   | 0.8   | 0.5   | 0.5   | 0.3   | 0.3   |
| 82.5° | 7.5    | 3.9   | 2.1   | 1.5   | 1.3   | 1.0   | 0.5   | 0.3   | 0.3   | 0.0   | 0.0   |
| 85°   | 3.9    | 2.1   | 1.5   | 1.3   | 1.0   | 0.8   | 0.5   | 0.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.1    | 1.5   | 1.3   | 1.3   | 1.0   | 0.8   | 0.5   | 0.3   | 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)