

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: P672238

Luminaire Tested: **CCP-SA-2A-730-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672238  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-730-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

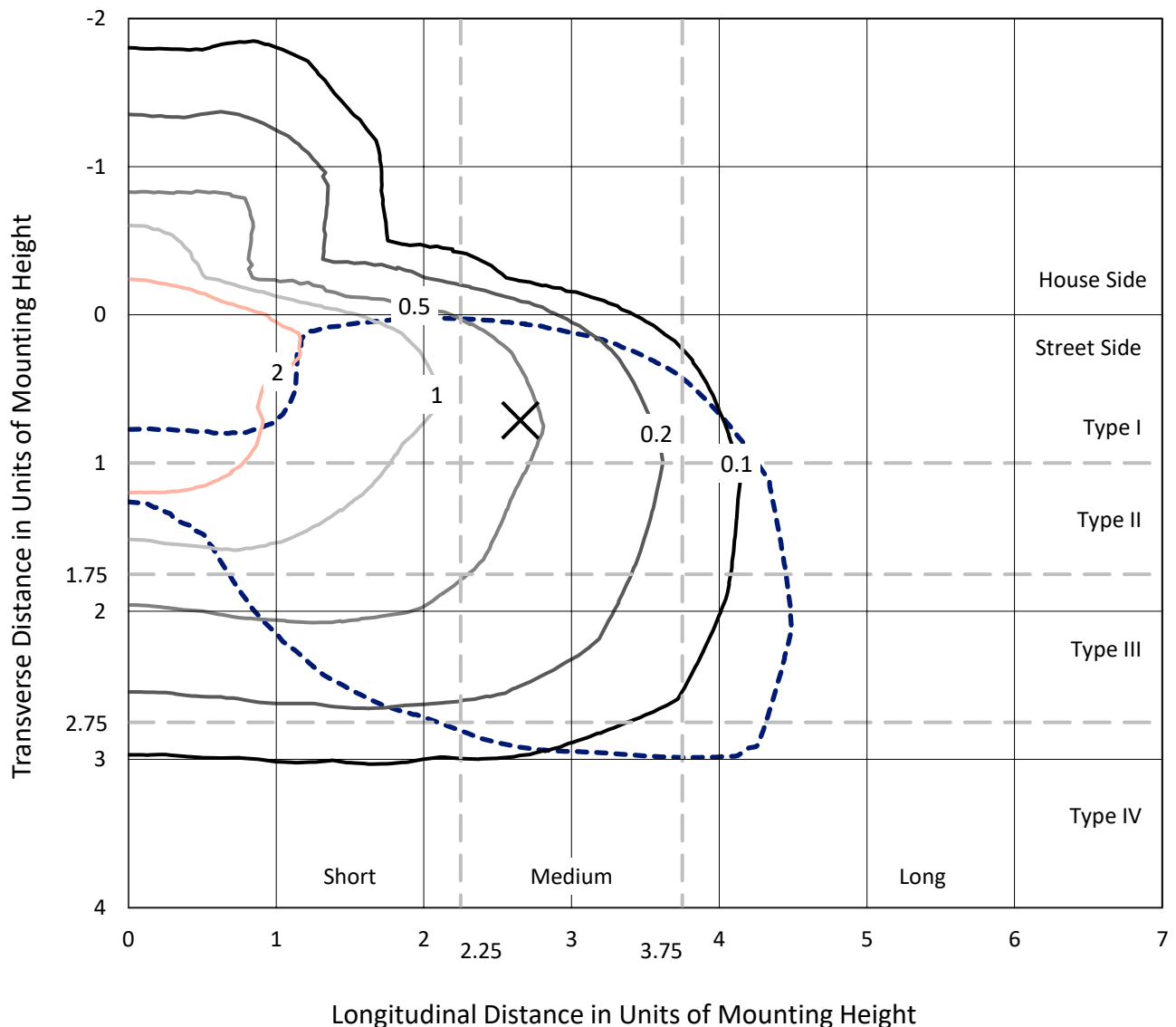
Lumens per Lamp: N/A  
Luminaire Lumens: 5064 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

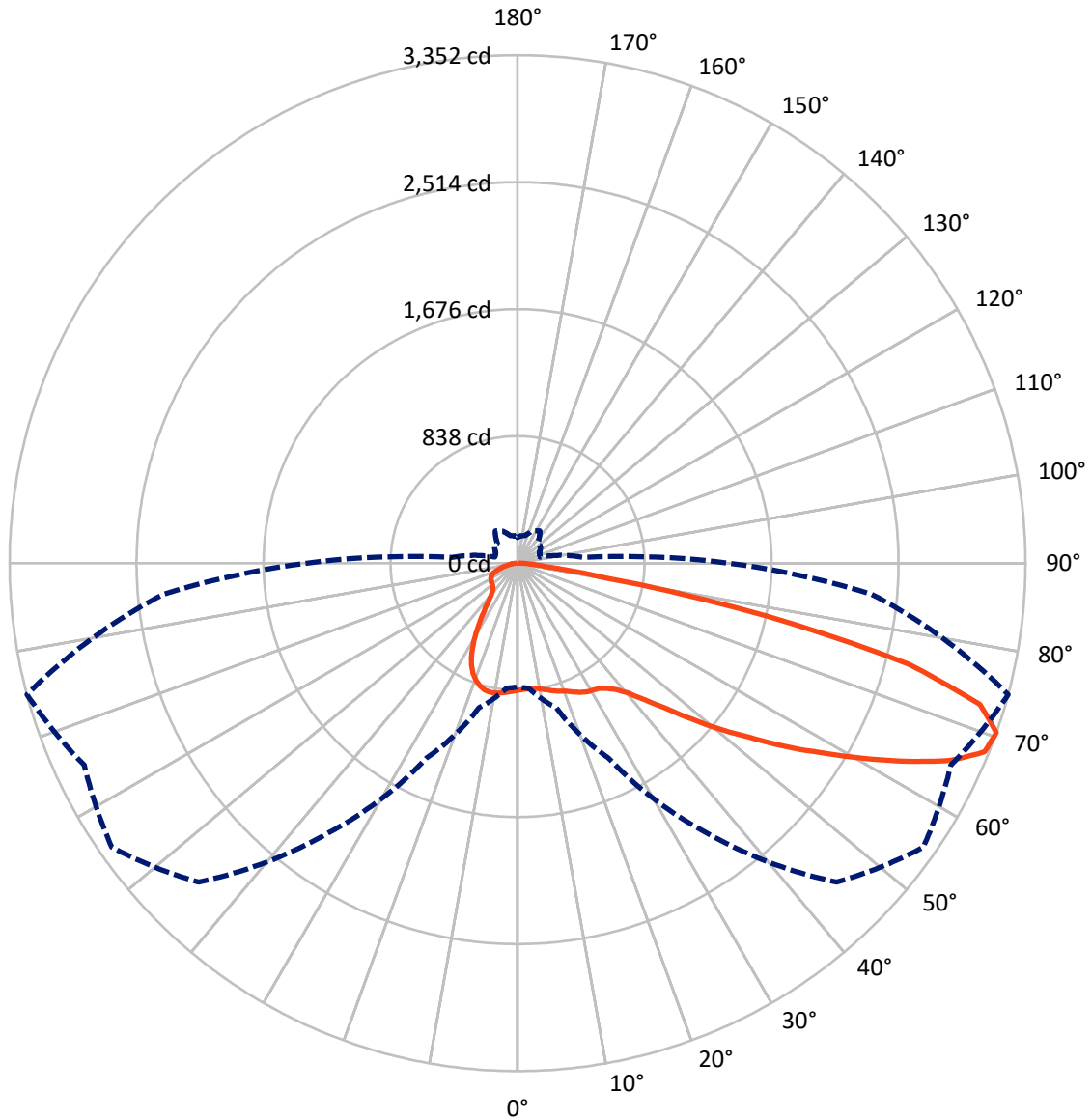
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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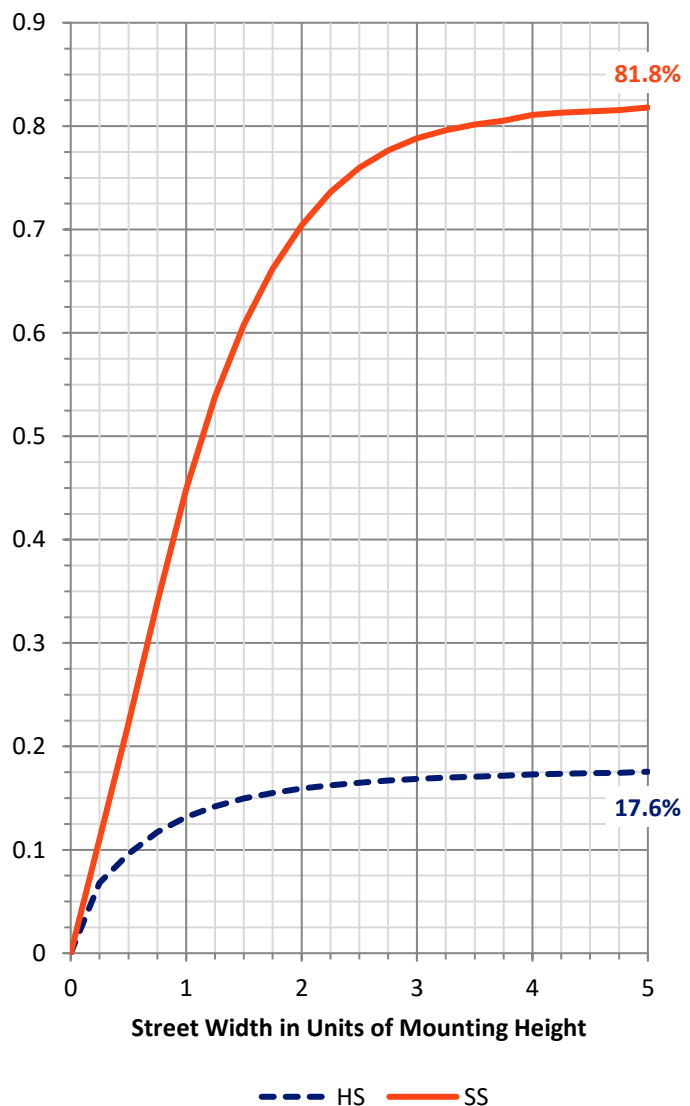
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 900.9    | 0.0    | 900.9  |
|                    | % Fixture | 17.8     | 0.0    | 17.8   |
| <b>Street Side</b> | Lumens    | 4163.1   | 0.0    | 4163.1 |
|                    | % Fixture | 82.2     | 0.0    | 82.2   |
| <b>Total</b>       | Lumens    | 5064.0   | 0.0    | 5064.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.3   | 1.5       |
| 10°-20°   | 201.1  | 4.0       |
| 20°-30°   | 338.8  | 6.7       |
| 30°-40°   | 514.6  | 10.2      |
| 40°-50°   | 737.3  | 14.6      |
| 50°-60°   | 977.5  | 19.3      |
| 60°-70°   | 1223.2 | 24.2      |
| 70°-80°   | 893.3  | 17.6      |
| 80°-90°   | 103.0  | 2.0       |
| 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°    | 5064.0 | 100.0     |
| 0°-180°   | 5064.0 | 100.0     |



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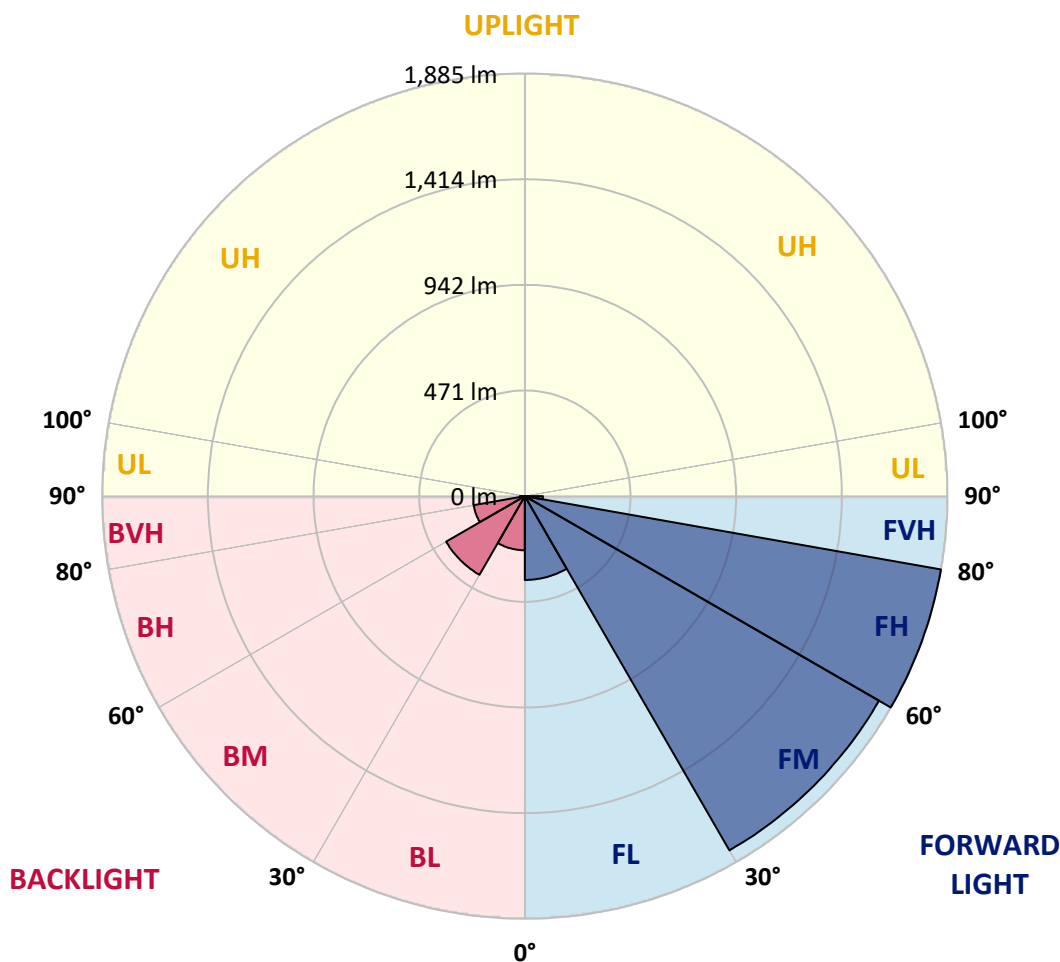
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 373.8  | 7.4       |                         |      |         |
| FM (30°-60°)   | 1824.2 | 36.0      |                         |      |         |
| FH (60°-80°)   | 1884.7 | 37.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 80.4   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 241.5  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 405.1  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 231.7  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 22.6   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  |
| 2.5°  | 792.9  | 797.3  | 801.3  | 805.3  | 808.6  | 817.3  | 819.2  | 828.6  | 831.2  | 833.4  | 836.3  |
| 5°    | 748.5  | 751.7  | 755.8  | 762.3  | 769.2  | 784.9  | 795.8  | 816.6  | 828.3  | 831.9  | 842.1  |
| 7.5°  | 724.4  | 725.5  | 731.0  | 736.4  | 744.5  | 759.8  | 774.7  | 807.1  | 830.5  | 834.5  | 856.3  |
| 10°   | 706.9  | 708.4  | 713.5  | 721.1  | 729.2  | 743.4  | 761.9  | 800.6  | 838.5  | 844.7  | 875.6  |
| 12.5° | 700.7  | 700.0  | 705.8  | 710.9  | 722.2  | 740.1  | 759.4  | 800.9  | 849.4  | 858.1  | 903.7  |
| 15°   | 725.5  | 720.8  | 724.4  | 722.6  | 726.2  | 743.7  | 766.7  | 809.0  | 862.9  | 873.8  | 932.8  |
| 17.5° | 780.2  | 776.2  | 773.6  | 757.9  | 747.7  | 757.6  | 779.4  | 820.3  | 877.1  | 888.8  | 959.1  |
| 20°   | 861.8  | 850.5  | 841.0  | 814.8  | 786.4  | 783.1  | 798.4  | 831.5  | 890.6  | 901.9  | 986.8  |
| 22.5° | 954.7  | 945.6  | 930.3  | 884.4  | 840.3  | 818.4  | 822.4  | 852.3  | 910.3  | 922.6  | 1018.5 |
| 25°   | 1072.0 | 1071.7 | 1040.3 | 978.4  | 911.7  | 867.6  | 859.2  | 885.5  | 932.5  | 944.5  | 1044.7 |
| 27.5° | 1205.8 | 1196.7 | 1159.5 | 1079.7 | 995.9  | 928.5  | 908.8  | 919.4  | 950.3  | 962.7  | 1065.9 |
| 30°   | 1320.2 | 1321.3 | 1283.4 | 1196.3 | 1085.5 | 987.9  | 950.7  | 943.8  | 962.0  | 974.4  | 1085.5 |
| 32.5° | 1442.6 | 1436.4 | 1401.8 | 1312.2 | 1182.5 | 1051.6 | 977.7  | 961.3  | 974.0  | 985.7  | 1112.9 |
| 35°   | 1557.8 | 1550.9 | 1521.0 | 1424.4 | 1289.2 | 1122.0 | 1014.1 | 988.6  | 1002.4 | 1015.2 | 1146.4 |
| 37.5° | 1667.5 | 1668.6 | 1634.7 | 1542.5 | 1392.7 | 1205.1 | 1068.0 | 1029.8 | 1044.7 | 1058.9 | 1197.4 |
| 40°   | 1763.3 | 1757.8 | 1731.6 | 1648.5 | 1500.2 | 1289.6 | 1128.9 | 1085.9 | 1115.0 | 1128.2 | 1261.9 |
| 42.5° | 1793.9 | 1793.5 | 1803.8 | 1752.7 | 1613.2 | 1390.2 | 1204.7 | 1173.3 | 1214.5 | 1234.2 | 1341.0 |
| 45°   | 1767.3 | 1775.3 | 1834.4 | 1832.9 | 1726.1 | 1505.7 | 1308.2 | 1279.8 | 1339.1 | 1361.4 | 1437.5 |
| 47.5° | 1741.1 | 1753.1 | 1833.3 | 1878.8 | 1827.4 | 1632.9 | 1435.3 | 1414.2 | 1499.5 | 1531.5 | 1537.7 |
| 50°   | 1702.8 | 1714.1 | 1809.6 | 1885.4 | 1889.4 | 1761.5 | 1600.1 | 1573.5 | 1683.1 | 1715.9 | 1646.7 |
| 52.5° | 1660.2 | 1668.9 | 1767.7 | 1880.6 | 1918.9 | 1862.1 | 1761.5 | 1753.8 | 1879.9 | 1906.5 | 1757.5 |
| 55°   | 1424.8 | 1462.0 | 1706.1 | 1870.4 | 1939.3 | 1938.9 | 1918.5 | 1943.7 | 2094.5 | 2134.3 | 1881.0 |
| 57.5° | 1289.6 | 1309.3 | 1532.6 | 1864.6 | 1977.6 | 2010.0 | 2080.7 | 2134.6 | 2323.7 | 2359.5 | 2017.3 |
| 60°   | 1245.5 | 1263.0 | 1445.6 | 1857.7 | 2053.7 | 2121.1 | 2239.2 | 2326.7 | 2570.1 | 2613.8 | 2169.6 |
| 62.5° | 1205.4 | 1226.6 | 1410.2 | 1802.7 | 2145.9 | 2297.1 | 2428.3 | 2534.4 | 2829.9 | 2881.6 | 2321.2 |
| 65°   | 1123.8 | 1138.7 | 1345.3 | 1756.4 | 2233.4 | 2548.2 | 2701.3 | 2763.2 | 3081.7 | 3140.0 | 2421.8 |
| 67.5° | 982.8  | 997.0  | 1199.2 | 1650.0 | 2290.2 | 2809.5 | 2999.7 | 3000.1 | 3276.3 | 3324.0 | 2442.9 |
| 70°   | 817.0  | 827.9  | 988.6  | 1418.2 | 2171.8 | 2977.1 | 3269.0 | 3154.9 | 3331.3 | 3352.1 | 2342.3 |
| 72.5° | 584.1  | 593.6  | 724.1  | 1048.4 | 1780.8 | 2841.2 | 3330.2 | 3148.4 | 3197.9 | 3191.4 | 2056.3 |
| 75°   | 360.0  | 378.2  | 443.5  | 639.9  | 1106.7 | 2235.6 | 2997.1 | 2852.8 | 2685.2 | 2667.0 | 1548.3 |
| 77.5° | 234.7  | 244.1  | 299.9  | 377.5  | 488.3  | 1283.4 | 2276.4 | 2139.0 | 1695.5 | 1674.4 | 832.3  |
| 80°   | 141.0  | 156.7  | 196.4  | 237.2  | 221.2  | 490.8  | 1299.8 | 1062.6 | 599.1  | 592.5  | 255.8  |
| 82.5° | 75.8   | 90.0   | 138.5  | 146.9  | 124.3  | 173.5  | 470.8  | 345.4  | 191.7  | 189.5  | 95.8   |
| 85°   | 60.1   | 67.0   | 99.5   | 92.9   | 70.3   | 87.8   | 183.7  | 143.9  | 98.4   | 96.2   | 36.1   |
| 87.5° | 36.4   | 45.9   | 75.4   | 62.7   | 35.0   | 31.7   | 84.2   | 68.1   | 46.3   | 43.0   | 14.2   |
| 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°    | 838.8  | 838.8 | 838.8 | 838.8 | 838.8 | 838.8 | 838.8 | 838.8 | 838.8 | 838.8 | 838.8 |
| 2.5°  | 841.8  | 843.6 | 845.4 | 841.8 | 843.2 | 841.4 | 841.4 | 841.4 | 836.6 | 835.2 | 839.6 |
| 5°    | 849.8  | 852.3 | 853.8 | 842.5 | 835.6 | 825.4 | 817.0 | 804.2 | 796.9 | 792.2 | 792.2 |
| 7.5°  | 866.2  | 869.1 | 862.5 | 837.4 | 813.0 | 785.6 | 757.6 | 734.3 | 717.5 | 710.2 | 712.4 |
| 10°   | 890.2  | 891.3 | 869.4 | 823.2 | 771.1 | 720.4 | 680.7 | 649.7 | 628.9 | 618.4 | 616.9 |
| 12.5° | 918.3  | 913.5 | 870.9 | 791.8 | 714.6 | 646.4 | 598.0 | 557.9 | 531.3 | 521.1 | 516.0 |
| 15°   | 946.0  | 934.7 | 865.4 | 754.3 | 650.4 | 568.5 | 506.5 | 468.6 | 452.2 | 447.5 | 445.7 |
| 17.5° | 970.7  | 949.6 | 847.2 | 700.4 | 576.1 | 477.4 | 431.8 | 418.3 | 420.1 | 424.5 | 426.3 |
| 20°   | 993.3  | 960.9 | 821.0 | 636.2 | 483.2 | 406.3 | 395.0 | 407.4 | 417.6 | 424.2 | 425.2 |
| 22.5° | 1018.1 | 971.8 | 784.5 | 558.3 | 407.0 | 373.5 | 387.0 | 401.2 | 411.4 | 418.0 | 419.1 |
| 25°   | 1037.1 | 971.5 | 733.2 | 465.7 | 358.9 | 364.8 | 380.8 | 393.5 | 401.2 | 405.9 | 405.6 |
| 27.5° | 1049.1 | 962.7 | 665.7 | 389.5 | 340.0 | 358.6 | 373.9 | 382.2 | 386.6 | 390.3 | 389.9 |
| 30°   | 1052.7 | 946.0 | 580.8 | 333.4 | 331.2 | 352.7 | 364.4 | 369.5 | 372.8 | 376.4 | 376.4 |
| 32.5° | 1060.0 | 920.1 | 487.2 | 302.1 | 324.7 | 346.9 | 353.8 | 357.8 | 355.3 | 346.2 | 344.4 |
| 35°   | 1068.0 | 891.3 | 398.6 | 287.5 | 318.5 | 342.9 | 349.5 | 338.9 | 311.2 | 307.5 | 306.1 |
| 37.5° | 1083.7 | 864.7 | 323.6 | 277.3 | 317.0 | 345.1 | 350.5 | 308.3 | 285.0 | 273.7 | 271.8 |
| 40°   | 1110.3 | 838.1 | 273.3 | 270.0 | 318.8 | 354.6 | 336.0 | 293.7 | 255.1 | 233.6 | 229.9 |
| 42.5° | 1145.3 | 805.7 | 244.9 | 266.4 | 323.9 | 369.9 | 330.9 | 272.9 | 230.7 | 216.1 | 213.9 |
| 45°   | 1185.7 | 762.7 | 231.4 | 265.6 | 330.1 | 377.5 | 332.3 | 256.2 | 219.7 | 208.4 | 207.7 |
| 47.5° | 1227.6 | 720.4 | 225.6 | 264.9 | 337.8 | 374.2 | 312.3 | 251.1 | 215.4 | 212.1 | 214.3 |
| 50°   | 1272.8 | 672.3 | 220.8 | 263.1 | 344.0 | 374.2 | 301.4 | 250.0 | 216.8 | 224.1 | 231.4 |
| 52.5° | 1315.1 | 631.9 | 215.4 | 257.6 | 346.5 | 367.7 | 298.1 | 254.0 | 219.0 | 217.2 | 219.4 |
| 55°   | 1366.5 | 611.1 | 212.4 | 250.0 | 341.8 | 347.6 | 294.1 | 264.9 | 220.8 | 205.9 | 205.9 |
| 57.5° | 1425.1 | 606.7 | 208.1 | 239.8 | 326.5 | 319.9 | 293.7 | 271.5 | 216.1 | 202.2 | 199.7 |
| 60°   | 1495.8 | 616.2 | 202.6 | 227.0 | 307.9 | 298.4 | 291.2 | 271.5 | 208.4 | 196.0 | 197.1 |
| 62.5° | 1553.0 | 615.1 | 199.3 | 215.7 | 283.1 | 276.2 | 286.4 | 267.8 | 205.5 | 195.3 | 195.0 |
| 65°   | 1566.5 | 591.8 | 189.8 | 201.1 | 252.5 | 249.2 | 281.3 | 258.7 | 201.5 | 191.3 | 188.4 |
| 67.5° | 1521.0 | 538.9 | 175.6 | 181.8 | 220.1 | 220.5 | 272.2 | 246.7 | 196.0 | 189.1 | 184.4 |
| 70°   | 1391.6 | 435.8 | 154.5 | 158.5 | 185.1 | 189.8 | 258.7 | 232.5 | 186.9 | 179.6 | 168.4 |
| 72.5° | 1164.6 | 313.4 | 130.1 | 131.2 | 147.2 | 159.6 | 235.4 | 213.2 | 173.5 | 156.3 | 144.3 |
| 75°   | 862.2  | 208.1 | 106.0 | 104.6 | 110.4 | 129.7 | 201.1 | 191.7 | 156.0 | 129.7 | 123.5 |
| 77.5° | 455.9  | 123.2 | 81.6  | 82.0  | 78.3  | 99.5  | 159.6 | 166.5 | 138.5 | 109.3 | 103.1 |
| 80°   | 156.0  | 74.0  | 58.7  | 61.2  | 55.4  | 71.1  | 118.4 | 138.5 | 118.4 | 91.1  | 80.5  |
| 82.5° | 71.4   | 45.2  | 41.9  | 43.7  | 39.7  | 48.1  | 81.3  | 104.9 | 94.4  | 66.3  | 53.6  |
| 85°   | 36.1   | 27.0  | 27.0  | 29.5  | 26.2  | 24.8  | 44.8  | 69.6  | 69.2  | 45.5  | 39.4  |
| 87.5° | 14.9   | 13.1  | 12.4  | 14.2  | 12.4  | 9.5   | 12.8  | 25.1  | 36.4  | 27.3  | 17.5  |
| 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)