

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: P670628

Luminaire Tested: **CCP-SA-1C-722-U-T2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P670628  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-722-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T2  
distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3322 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

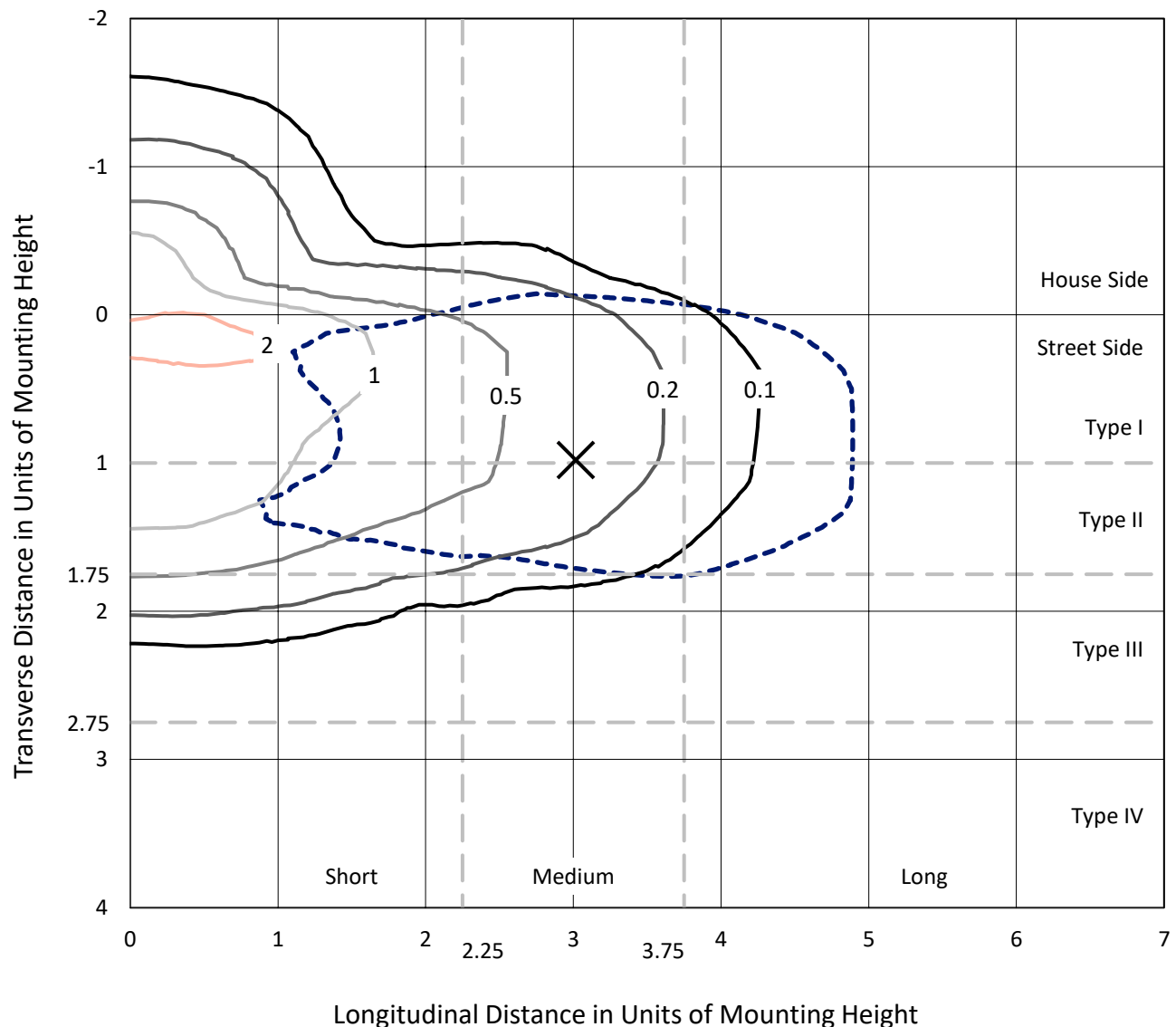
Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

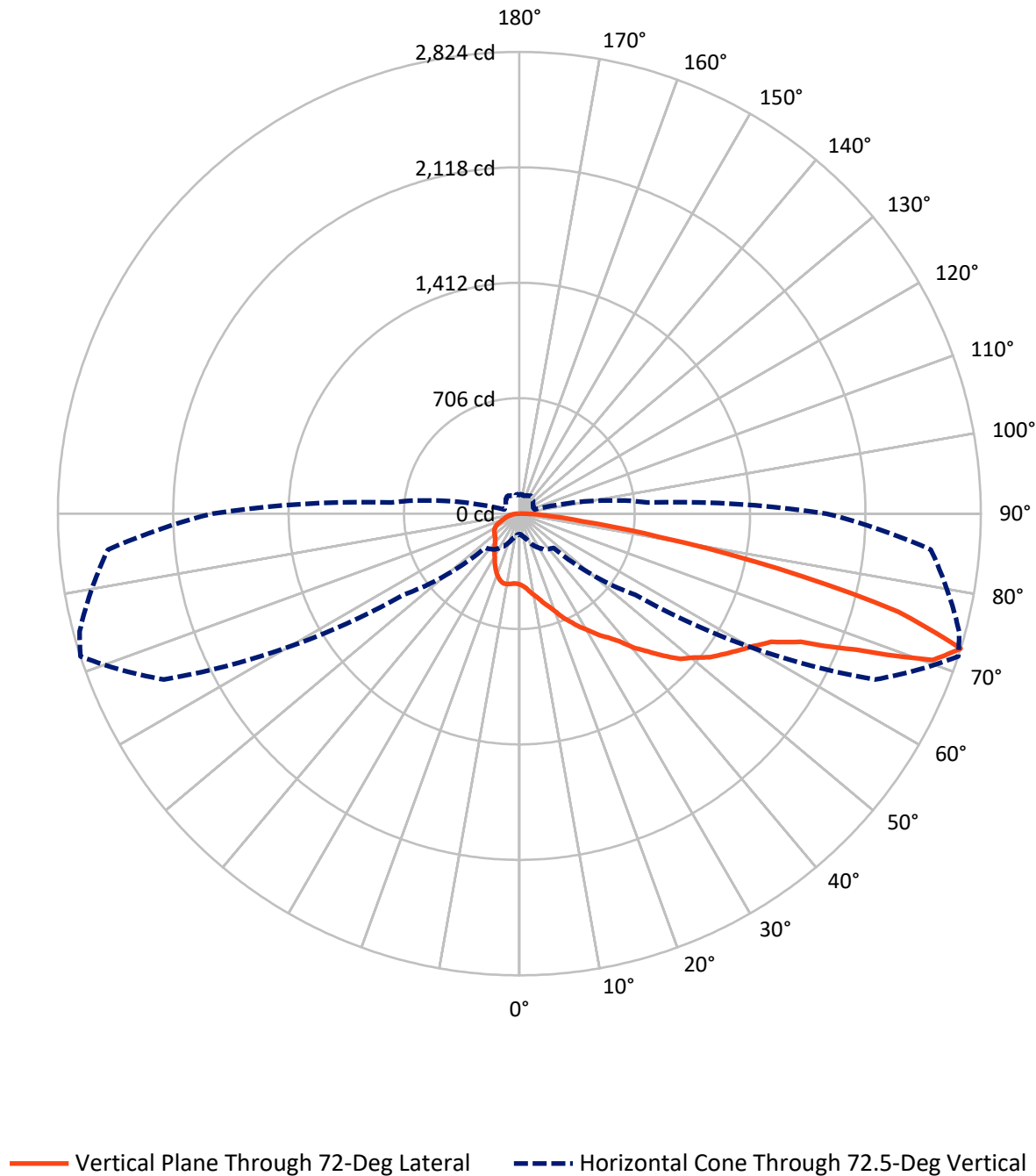
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 699.1    | 0.0    | 699.1  |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 2622.9   | 0.0    | 2622.9 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 3322.0   | 0.0    | 3322.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.9   | 1.3       |
| 10°-20°   | 133.3  | 4.0       |
| 20°-30°   | 230.7  | 6.9       |
| 30°-40°   | 340.7  | 10.3      |
| 40°-50°   | 506.7  | 15.3      |
| 50°-60°   | 694.7  | 20.9      |
| 60°-70°   | 753.5  | 22.7      |
| 70°-80°   | 531.2  | 16.0      |
| 80°-90°   | 88.3   | 2.7       |
| 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°    | 3322.0 | 100.0     |
| 0°-180°   | 3322.0 | 100.0     |

**Coefficient of Utilization**



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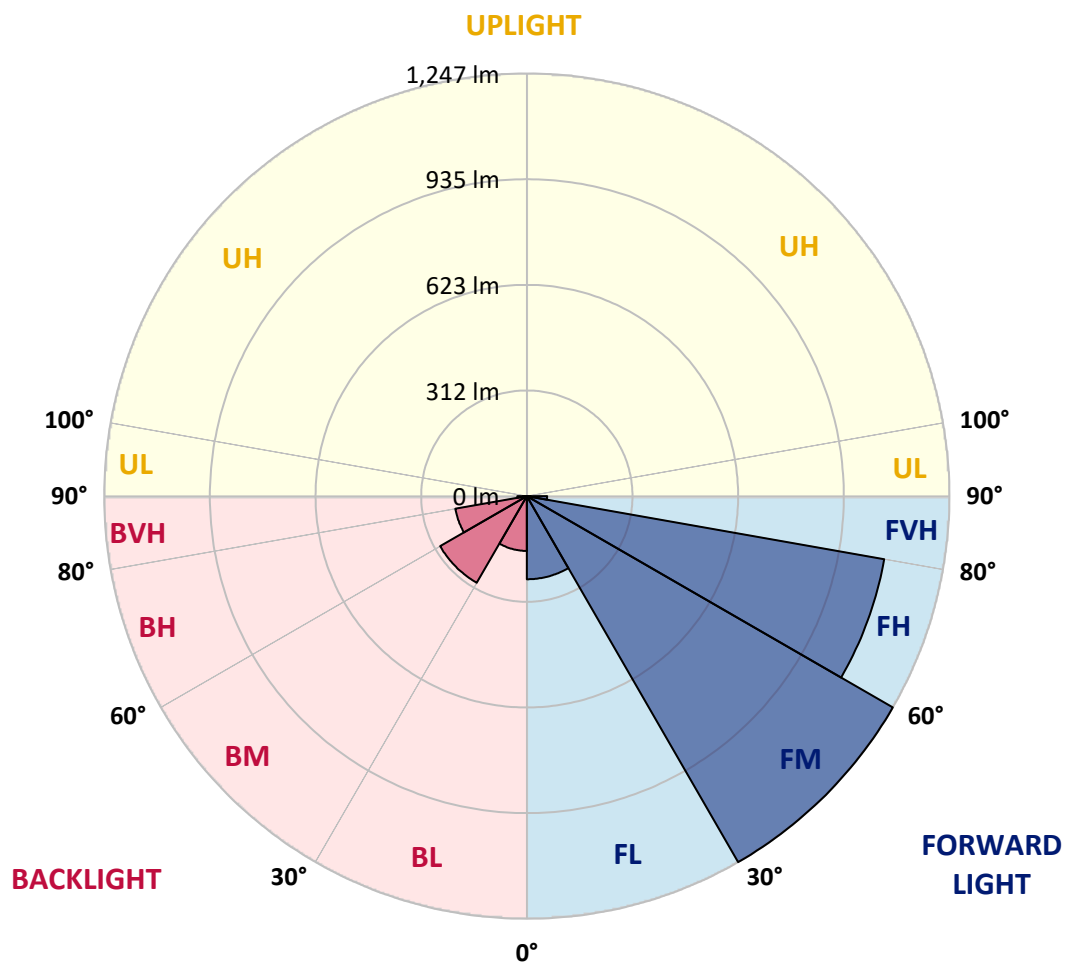
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 245.3  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1246.8 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1070.6 | 32.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 60.2   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 161.6  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 295.3  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 214.2  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 28.1   | 0.8       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  | 434.0  |
| 2.5°  | 468.3  | 468.3  | 464.6  | 463.4  | 463.4  | 453.6  | 454.8  | 448.7  | 443.8  | 443.8  | 438.9  |
| 5°    | 492.8  | 490.3  | 490.3  | 490.3  | 484.2  | 480.5  | 479.3  | 468.3  | 459.7  | 460.9  | 446.2  |
| 7.5°  | 498.9  | 500.1  | 501.4  | 507.5  | 503.8  | 506.3  | 503.8  | 491.6  | 485.4  | 479.3  | 465.8  |
| 10°   | 502.6  | 505.1  | 505.1  | 513.6  | 513.6  | 519.8  | 523.4  | 518.5  | 507.5  | 501.4  | 479.3  |
| 12.5° | 511.2  | 507.5  | 512.4  | 518.5  | 524.7  | 535.7  | 546.7  | 541.8  | 534.5  | 527.1  | 502.6  |
| 15°   | 511.2  | 512.4  | 516.1  | 525.9  | 535.7  | 546.7  | 566.3  | 573.7  | 570.0  | 556.5  | 530.8  |
| 17.5° | 496.5  | 492.8  | 510.0  | 528.3  | 546.7  | 560.2  | 586.0  | 603.1  | 600.7  | 595.8  | 556.5  |
| 20°   | 497.7  | 501.4  | 507.5  | 523.4  | 552.9  | 577.4  | 609.2  | 637.4  | 643.6  | 641.1  | 590.9  |
| 22.5° | 519.8  | 521.0  | 527.1  | 534.5  | 557.8  | 589.6  | 637.4  | 682.8  | 693.8  | 687.7  | 628.9  |
| 25°   | 541.8  | 551.6  | 551.6  | 556.5  | 565.1  | 598.2  | 655.8  | 719.6  | 735.5  | 736.7  | 668.1  |
| 27.5° | 577.4  | 579.8  | 587.2  | 589.6  | 597.0  | 616.6  | 676.7  | 746.5  | 783.3  | 778.4  | 703.6  |
| 30°   | 619.1  | 620.3  | 625.2  | 622.7  | 624.0  | 648.5  | 696.3  | 777.2  | 827.5  | 828.7  | 741.6  |
| 32.5° | 668.1  | 677.9  | 680.3  | 664.4  | 666.9  | 673.0  | 726.9  | 814.0  | 882.6  | 874.0  | 774.7  |
| 35°   | 740.4  | 744.1  | 736.7  | 729.4  | 711.0  | 707.3  | 758.8  | 850.7  | 930.4  | 940.2  | 823.8  |
| 37.5° | 829.9  | 839.7  | 829.9  | 790.7  | 771.1  | 756.4  | 798.0  | 891.2  | 988.0  | 1021.1 | 872.8  |
| 40°   | 913.3  | 912.0  | 902.2  | 866.7  | 832.4  | 821.3  | 854.4  | 947.6  | 1077.5 | 1109.4 | 943.9  |
| 42.5° | 980.7  | 977.0  | 970.9  | 943.9  | 912.0  | 893.6  | 919.4  | 1006.4 | 1152.3 | 1213.6 | 1026.0 |
| 45°   | 1039.5 | 1034.6 | 1035.8 | 1005.2 | 974.6  | 984.4  | 984.4  | 1073.8 | 1240.6 | 1316.6 | 1120.4 |
| 47.5° | 1094.7 | 1097.1 | 1093.5 | 1070.2 | 1046.9 | 1072.6 | 1059.1 | 1151.1 | 1327.6 | 1412.2 | 1200.1 |
| 50°   | 1158.4 | 1163.3 | 1151.1 | 1136.4 | 1115.5 | 1141.3 | 1124.1 | 1223.4 | 1384.0 | 1499.2 | 1295.7 |
| 52.5° | 1218.5 | 1223.4 | 1234.4 | 1216.0 | 1195.2 | 1216.0 | 1176.8 | 1290.8 | 1458.8 | 1583.8 | 1369.3 |
| 55°   | 1233.2 | 1230.8 | 1292.1 | 1311.7 | 1322.7 | 1260.2 | 1223.4 | 1348.4 | 1517.6 | 1637.7 | 1452.6 |
| 57.5° | 1165.8 | 1171.9 | 1255.3 | 1311.7 | 1429.3 | 1375.4 | 1276.1 | 1415.9 | 1578.9 | 1708.8 | 1529.9 |
| 60°   | 997.8  | 1001.5 | 1105.7 | 1239.3 | 1411.0 | 1483.3 | 1418.3 | 1502.9 | 1646.3 | 1768.9 | 1616.9 |
| 62.5° | 666.9  | 695.1  | 825.0  | 1034.6 | 1281.0 | 1512.7 | 1645.1 | 1650.0 | 1728.5 | 1844.9 | 1735.8 |
| 65°   | 351.8  | 365.3  | 467.1  | 636.2  | 970.9  | 1411.0 | 1858.4 | 1941.8 | 1892.7 | 1984.7 | 1907.4 |
| 67.5° | 230.5  | 235.4  | 290.5  | 386.1  | 560.2  | 1029.7 | 1882.9 | 2448.0 | 2222.5 | 2250.7 | 2182.0 |
| 70°   | 171.6  | 174.1  | 214.5  | 285.6  | 346.9  | 550.4  | 1543.4 | 2684.6 | 2683.4 | 2608.6 | 2508.1 |
| 72.5° | 126.3  | 129.9  | 158.1  | 218.2  | 267.2  | 296.7  | 867.9  | 2401.4 | 2824.4 | 2786.4 | 2527.7 |
| 75°   | 99.3   | 101.7  | 116.5  | 169.2  | 215.8  | 194.9  | 440.1  | 1778.7 | 2395.3 | 2578.0 | 2313.2 |
| 77.5° | 80.9   | 83.4   | 91.9   | 122.6  | 172.8  | 150.8  | 210.8  | 1147.4 | 1624.3 | 1855.9 | 1770.1 |
| 80°   | 67.4   | 67.4   | 73.6   | 87.0   | 133.6  | 114.0  | 125.0  | 644.8  | 875.3  | 966.0  | 802.9  |
| 82.5° | 57.6   | 56.4   | 61.3   | 63.7   | 99.3   | 82.1   | 80.9   | 291.8  | 384.9  | 408.2  | 301.6  |
| 85°   | 36.8   | 38.0   | 57.6   | 55.2   | 65.0   | 56.4   | 45.4   | 138.5  | 181.4  | 185.1  | 112.8  |
| 87.5° | 14.7   | 14.7   | 24.5   | 30.6   | 36.8   | 34.3   | 22.1   | 62.5   | 79.7   | 79.7   | 31.9   |
| 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°    | 434.0  | 434.0  | 434.0 | 434.0 | 434.0 | 434.0 | 434.0 | 434.0 | 434.0 | 434.0 | 434.0 |
| 2.5°  | 437.6  | 432.7  | 429.0 | 426.6 | 420.5 | 414.3 | 415.6 | 414.3 | 409.4 | 407.0 | 407.0 |
| 5°    | 442.5  | 437.6  | 431.5 | 421.7 | 415.6 | 408.2 | 410.7 | 405.8 | 400.9 | 404.5 | 398.4 |
| 7.5°  | 454.8  | 446.2  | 437.6 | 422.9 | 413.1 | 402.1 | 397.2 | 394.7 | 391.0 | 388.6 | 388.6 |
| 10°   | 472.0  | 459.7  | 443.8 | 421.7 | 405.8 | 388.6 | 386.1 | 381.2 | 377.6 | 377.6 | 376.3 |
| 12.5° | 489.1  | 475.6  | 448.7 | 413.1 | 386.1 | 373.9 | 372.7 | 373.9 | 376.3 | 377.6 | 378.8 |
| 15°   | 511.2  | 489.1  | 447.4 | 397.2 | 370.2 | 365.3 | 371.4 | 376.3 | 381.2 | 386.1 | 384.9 |
| 17.5° | 532.0  | 506.3  | 436.4 | 377.6 | 356.7 | 357.9 | 369.0 | 378.8 | 388.6 | 393.5 | 394.7 |
| 20°   | 560.2  | 522.2  | 420.5 | 354.3 | 343.2 | 354.3 | 369.0 | 381.2 | 392.3 | 398.4 | 399.6 |
| 22.5° | 592.1  | 540.6  | 399.6 | 333.4 | 332.2 | 343.2 | 357.9 | 376.3 | 388.6 | 399.6 | 398.4 |
| 25°   | 620.3  | 552.9  | 372.7 | 316.3 | 318.7 | 326.1 | 343.2 | 362.9 | 375.1 | 387.4 | 383.7 |
| 27.5° | 638.7  | 555.3  | 344.5 | 304.0 | 304.0 | 311.4 | 327.3 | 339.6 | 350.6 | 360.4 | 361.6 |
| 30°   | 659.5  | 550.4  | 312.6 | 288.1 | 288.1 | 297.9 | 304.0 | 311.4 | 317.5 | 319.9 | 322.4 |
| 32.5° | 684.0  | 539.4  | 293.0 | 275.8 | 275.8 | 283.2 | 286.8 | 284.4 | 283.2 | 277.0 | 280.7 |
| 35°   | 707.3  | 523.4  | 270.9 | 259.9 | 264.8 | 268.5 | 267.2 | 259.9 | 252.5 | 241.5 | 237.8 |
| 37.5° | 735.5  | 507.5  | 251.3 | 242.7 | 251.3 | 252.5 | 252.5 | 243.9 | 234.1 | 220.7 | 220.7 |
| 40°   | 778.4  | 495.2  | 235.4 | 231.7 | 240.3 | 239.0 | 232.9 | 226.8 | 230.5 | 223.1 | 223.1 |
| 42.5° | 823.8  | 490.3  | 220.7 | 221.9 | 225.6 | 226.8 | 220.7 | 213.3 | 228.0 | 219.4 | 220.7 |
| 45°   | 880.2  | 494.0  | 210.8 | 209.6 | 218.2 | 217.0 | 213.3 | 207.2 | 212.1 | 190.0 | 183.9 |
| 47.5° | 932.9  | 501.4  | 205.9 | 201.0 | 210.8 | 213.3 | 208.4 | 194.9 | 187.6 | 174.1 | 171.6 |
| 50°   | 980.7  | 517.3  | 201.0 | 191.2 | 201.0 | 205.9 | 197.4 | 182.7 | 174.1 | 165.5 | 165.5 |
| 52.5° | 1026.0 | 540.6  | 198.6 | 180.2 | 188.8 | 194.9 | 190.0 | 175.3 | 165.5 | 161.8 | 158.1 |
| 55°   | 1072.6 | 561.4  | 194.9 | 172.8 | 175.3 | 187.6 | 186.3 | 166.7 | 156.9 | 156.9 | 155.7 |
| 57.5° | 1138.8 | 589.6  | 190.0 | 160.6 | 165.5 | 179.0 | 179.0 | 163.0 | 152.0 | 153.2 | 154.5 |
| 60°   | 1206.2 | 622.7  | 185.1 | 148.3 | 152.0 | 170.4 | 172.8 | 158.1 | 148.3 | 149.6 | 148.3 |
| 62.5° | 1314.1 | 684.0  | 175.3 | 133.6 | 141.0 | 159.4 | 165.5 | 152.0 | 143.4 | 145.9 | 145.9 |
| 65°   | 1477.2 | 789.5  | 154.5 | 121.4 | 129.9 | 149.6 | 158.1 | 145.9 | 136.1 | 143.4 | 141.0 |
| 67.5° | 1739.5 | 934.1  | 129.9 | 111.6 | 122.6 | 139.7 | 149.6 | 138.5 | 129.9 | 141.0 | 137.3 |
| 70°   | 1974.9 | 1005.2 | 111.6 | 103.0 | 111.6 | 128.7 | 139.7 | 131.2 | 122.6 | 133.6 | 128.7 |
| 72.5° | 1879.2 | 788.2  | 96.8  | 93.2  | 101.7 | 116.5 | 129.9 | 121.4 | 112.8 | 118.9 | 114.0 |
| 75°   | 1621.8 | 627.6  | 84.6  | 83.4  | 90.7  | 105.4 | 118.9 | 112.8 | 104.2 | 106.6 | 104.2 |
| 77.5° | 1229.5 | 518.5  | 72.3  | 71.1  | 77.2  | 94.4  | 106.6 | 101.7 | 93.2  | 91.9  | 91.9  |
| 80°   | 549.2  | 255.0  | 60.1  | 60.1  | 63.7  | 80.9  | 90.7  | 88.3  | 79.7  | 78.5  | 77.2  |
| 82.5° | 180.2  | 96.8   | 49.0  | 46.6  | 51.5  | 67.4  | 80.9  | 78.5  | 69.9  | 67.4  | 65.0  |
| 85°   | 72.3   | 46.6   | 35.5  | 35.5  | 40.5  | 56.4  | 72.3  | 67.4  | 56.4  | 50.3  | 50.3  |
| 87.5° | 24.5   | 19.6   | 18.4  | 18.4  | 25.7  | 38.0  | 53.9  | 45.4  | 40.5  | 35.5  | 36.8  |
| 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)