

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: P673242

Luminaire Tested: **CCP-SA-1C-730-U-T3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673242  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-730-U-T3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

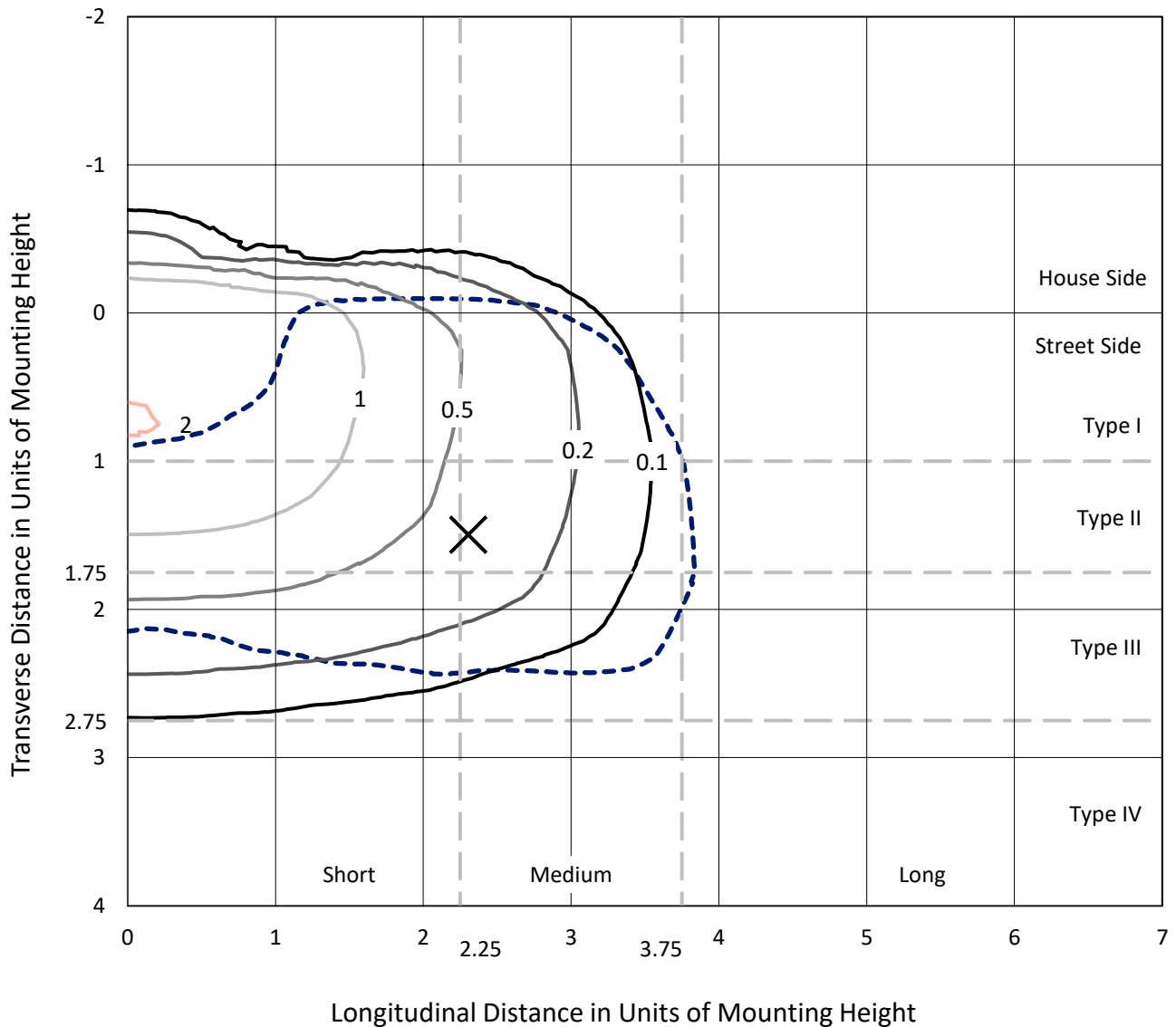
Lumens per Lamp: N/A  
Luminaire Lumens: 2966 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

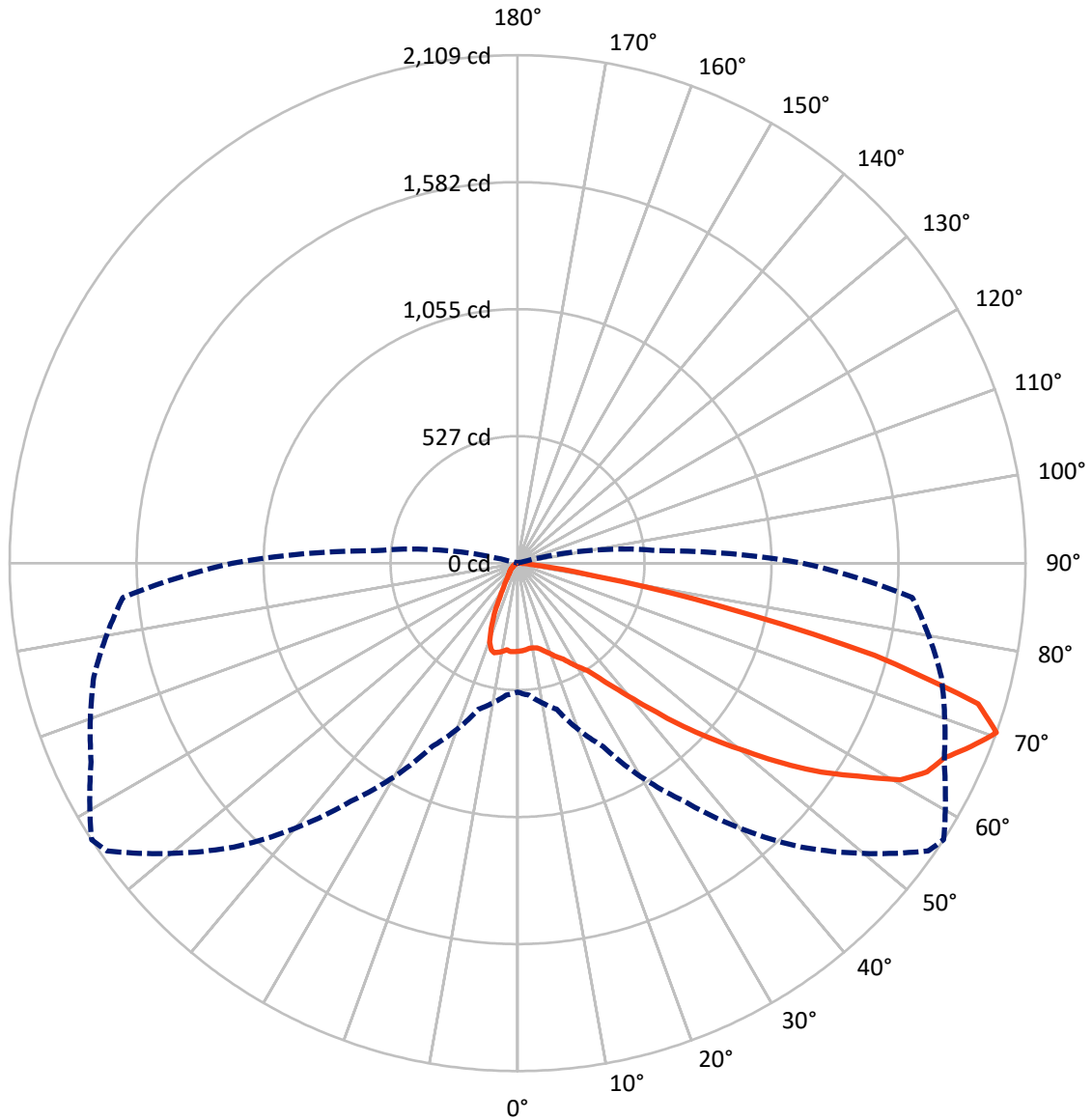
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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    | 349.6    | 0.0    | 349.6  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 2616.4   | 0.0    | 2616.4 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 2966.0   | 0.0    | 2966.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.2   | 1.2       |
| 10°-20°   | 95.6   | 3.2       |
| 20°-30°   | 161.1  | 5.4       |
| 30°-40°   | 275.6  | 9.3       |
| 40°-50°   | 462.8  | 15.6      |
| 50°-60°   | 710.5  | 24.0      |
| 60°-70°   | 820.3  | 27.7      |
| 70°-80°   | 387.5  | 13.1      |
| 80°-90°   | 18.4   | 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°    | 2966.0 | 100.0     |
| 0°-180°   | 2966.0 | 100.0     |



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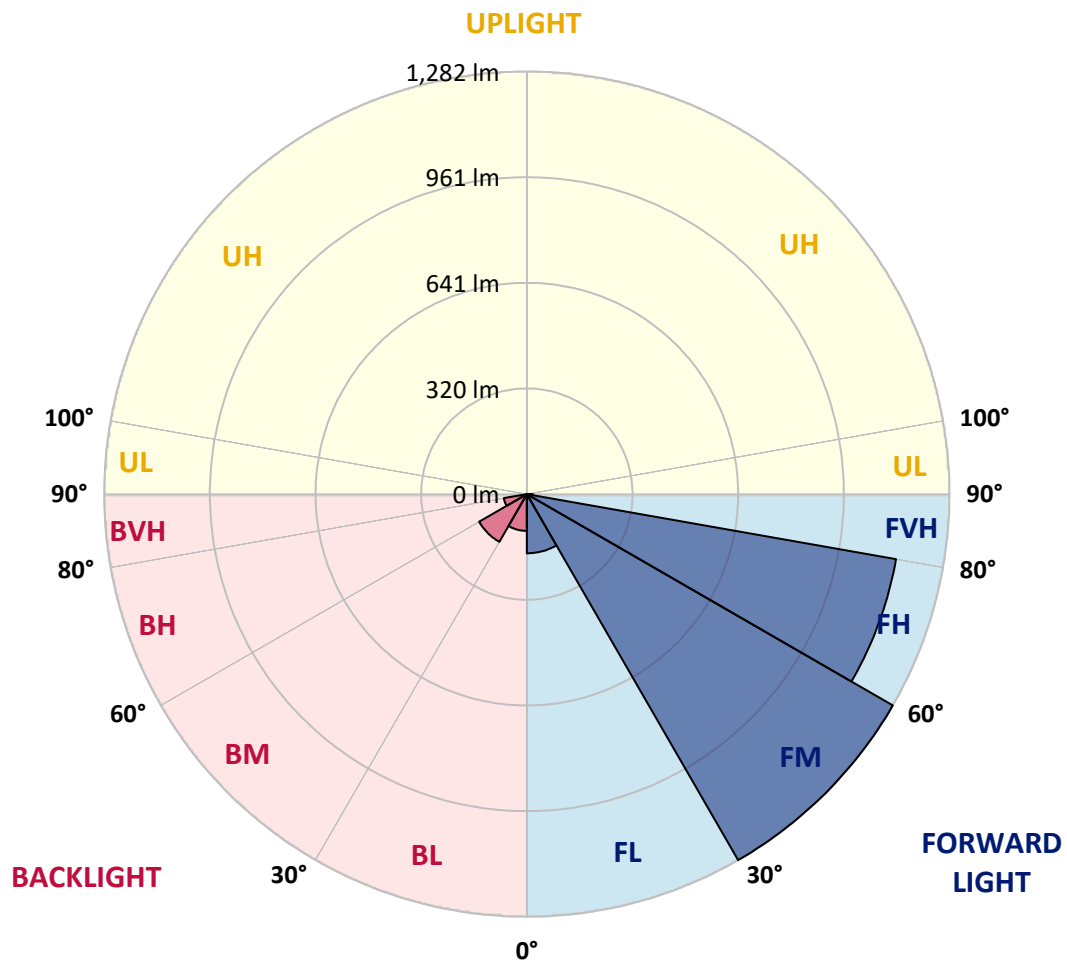
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 179.4  | 6.0       |                         |      |         |
| FM (30°-60°)   | 1281.8 | 43.2      |                         |      |         |
| FH (60°-80°)   | 1137.0 | 38.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 18.0   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 111.5  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 167.1  | 5.6       | B0/220                  |      |         |
| BH (60°-80°)   | 70.7   | 2.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.3    | 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°    | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  | 366.0  |
| 2.5°  | 360.7  | 358.4  | 360.7  | 363.7  | 360.7  | 362.9  | 362.2  | 364.4  | 361.4  | 361.4  | 363.7  |
| 5°    | 337.2  | 341.0  | 342.5  | 346.3  | 350.1  | 356.9  | 361.4  | 361.4  | 366.0  | 368.2  | 371.3  |
| 7.5°  | 328.8  | 322.8  | 328.8  | 331.9  | 335.7  | 347.0  | 353.8  | 356.9  | 362.9  | 371.3  | 375.8  |
| 10°   | 316.7  | 321.3  | 321.3  | 331.1  | 336.4  | 343.2  | 355.4  | 357.6  | 371.3  | 379.6  | 384.1  |
| 12.5° | 316.0  | 316.0  | 319.7  | 326.6  | 337.2  | 350.1  | 365.2  | 360.7  | 375.1  | 390.2  | 397.8  |
| 15°   | 318.2  | 323.5  | 323.5  | 332.6  | 341.0  | 359.1  | 372.0  | 372.8  | 393.2  | 408.4  | 415.2  |
| 17.5° | 328.1  | 325.8  | 328.8  | 334.1  | 347.0  | 364.4  | 385.7  | 387.9  | 411.4  | 431.9  | 441.7  |
| 20°   | 348.5  | 352.3  | 347.8  | 344.7  | 350.1  | 372.8  | 400.1  | 404.6  | 431.1  | 450.8  | 460.7  |
| 22.5° | 425.1  | 422.0  | 403.8  | 382.6  | 373.5  | 384.1  | 413.7  | 424.3  | 455.4  | 478.9  | 487.2  |
| 25°   | 511.4  | 506.1  | 484.9  | 453.1  | 411.4  | 406.9  | 441.0  | 441.0  | 485.7  | 511.4  | 509.2  |
| 27.5° | 593.3  | 591.8  | 566.8  | 533.4  | 474.3  | 441.7  | 462.9  | 471.3  | 519.8  | 541.0  | 531.1  |
| 30°   | 676.6  | 678.1  | 655.4  | 615.2  | 553.1  | 497.8  | 494.0  | 500.8  | 545.5  | 578.9  | 558.4  |
| 32.5° | 773.6  | 760.0  | 744.0  | 688.7  | 631.9  | 569.8  | 534.2  | 531.1  | 574.3  | 604.6  | 577.4  |
| 35°   | 860.0  | 851.6  | 834.2  | 784.2  | 719.0  | 644.8  | 594.8  | 587.2  | 610.7  | 650.9  | 621.3  |
| 37.5° | 935.7  | 927.4  | 904.7  | 871.3  | 820.6  | 738.0  | 667.5  | 656.2  | 666.0  | 708.4  | 672.8  |
| 40°   | 1000.9 | 1003.2 | 997.1  | 964.5  | 917.6  | 842.5  | 761.5  | 743.3  | 735.0  | 772.8  | 732.7  |
| 42.5° | 1047.9 | 1069.9 | 1071.4 | 1031.2 | 993.3  | 952.4  | 861.5  | 847.1  | 827.4  | 859.2  | 831.2  |
| 45°   | 1146.4 | 1134.3 | 1141.8 | 1127.4 | 1085.8 | 1079.7 | 976.7  | 968.3  | 941.0  | 951.7  | 922.1  |
| 47.5° | 1223.7 | 1221.4 | 1235.8 | 1212.3 | 1200.9 | 1201.7 | 1107.7 | 1093.3 | 1054.7 | 1074.4 | 1041.1 |
| 50°   | 1268.4 | 1256.2 | 1308.5 | 1326.7 | 1324.4 | 1333.5 | 1240.3 | 1228.2 | 1191.1 | 1219.9 | 1148.7 |
| 52.5° | 1279.0 | 1300.9 | 1350.2 | 1416.1 | 1444.2 | 1463.1 | 1385.1 | 1380.5 | 1340.3 | 1358.5 | 1260.0 |
| 55°   | 1305.5 | 1326.7 | 1355.5 | 1463.9 | 1567.7 | 1572.2 | 1527.5 | 1532.0 | 1496.4 | 1491.9 | 1366.1 |
| 57.5° | 1304.7 | 1300.2 | 1379.7 | 1505.5 | 1649.5 | 1714.6 | 1690.4 | 1668.4 | 1629.8 | 1585.1 | 1434.3 |
| 60°   | 1257.0 | 1254.7 | 1337.3 | 1510.8 | 1694.2 | 1843.5 | 1853.3 | 1827.5 | 1730.6 | 1664.6 | 1514.6 |
| 62.5° | 1162.3 | 1171.4 | 1254.7 | 1465.4 | 1736.6 | 1889.7 | 1926.0 | 1908.6 | 1788.1 | 1717.7 | 1609.3 |
| 65°   | 1053.9 | 1035.0 | 1132.0 | 1351.7 | 1641.2 | 1876.0 | 1954.8 | 1948.8 | 1856.3 | 1775.3 | 1696.5 |
| 67.5° | 845.6  | 853.9  | 928.2  | 1163.1 | 1478.2 | 1826.0 | 2022.3 | 2031.4 | 1910.9 | 1826.0 | 1723.0 |
| 70°   | 535.7  | 550.8  | 628.1  | 840.3  | 1207.0 | 1668.4 | 2082.9 | 2109.4 | 1954.1 | 1821.5 | 1645.7 |
| 72.5° | 156.1  | 162.1  | 267.5  | 419.0  | 769.1  | 1338.1 | 1985.9 | 1999.5 | 1870.0 | 1653.3 | 1272.9 |
| 75°   | 51.5   | 54.6   | 78.8   | 136.4  | 301.6  | 691.8  | 1466.9 | 1531.3 | 1488.1 | 1198.7 | 728.1  |
| 77.5° | 34.1   | 35.6   | 43.2   | 65.2   | 114.4  | 216.7  | 786.5  | 855.4  | 838.8  | 561.4  | 234.9  |
| 80°   | 25.0   | 25.8   | 31.8   | 43.9   | 69.7   | 78.0   | 290.2  | 335.7  | 324.3  | 128.8  | 47.0   |
| 82.5° | 15.9   | 15.9   | 23.5   | 31.1   | 43.9   | 38.6   | 84.1   | 93.2   | 90.9   | 49.2   | 18.2   |
| 85°   | 10.6   | 11.4   | 17.4   | 24.2   | 24.2   | 18.2   | 24.2   | 28.0   | 30.3   | 26.5   | 8.3    |
| 87.5° | 3.0    | 3.8    | 9.8    | 16.7   | 9.8    | 9.1    | 8.3    | 9.1    | 10.6   | 14.4   | 4.5    |
| 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°    | 366.0  | 366.0 | 366.0 | 366.0 | 366.0 | 366.0 | 366.0 | 366.0 | 366.0 | 366.0 | 366.0 |
| 2.5°  | 366.0  | 369.0 | 368.2 | 369.8 | 367.5 | 365.2 | 367.5 | 367.5 | 367.5 | 365.2 | 363.7 |
| 5°    | 369.0  | 367.5 | 369.0 | 366.0 | 369.0 | 366.0 | 364.4 | 359.9 | 359.1 | 359.1 | 362.2 |
| 7.5°  | 373.5  | 375.1 | 368.2 | 368.2 | 361.4 | 362.9 | 359.1 | 359.9 | 358.4 | 356.1 | 354.6 |
| 10°   | 380.4  | 386.4 | 379.6 | 377.3 | 369.8 | 363.7 | 354.6 | 350.1 | 350.1 | 347.0 | 350.1 |
| 12.5° | 399.3  | 397.0 | 393.2 | 385.7 | 376.6 | 364.4 | 342.5 | 320.5 | 302.3 | 288.7 | 295.5 |
| 15°   | 414.5  | 413.7 | 408.4 | 394.0 | 381.9 | 344.7 | 289.4 | 232.6 | 202.3 | 188.7 | 186.4 |
| 17.5° | 437.9  | 435.7 | 426.6 | 407.6 | 367.5 | 285.6 | 198.5 | 150.8 | 121.2 | 114.4 | 112.1 |
| 20°   | 459.9  | 459.2 | 439.5 | 415.2 | 331.1 | 208.4 | 129.6 | 99.3  | 90.9  | 91.7  | 90.2  |
| 22.5° | 483.4  | 479.6 | 456.1 | 406.1 | 263.7 | 138.7 | 92.4  | 88.6  | 85.6  | 84.9  | 86.4  |
| 25°   | 509.9  | 496.3 | 472.8 | 385.7 | 194.0 | 95.5  | 87.1  | 84.1  | 81.1  | 80.3  | 80.3  |
| 27.5° | 520.5  | 511.4 | 480.4 | 336.4 | 122.7 | 83.3  | 81.8  | 78.0  | 74.3  | 72.0  | 71.2  |
| 30°   | 544.8  | 529.6 | 488.0 | 264.4 | 87.1  | 76.5  | 74.3  | 69.7  | 64.4  | 60.6  | 60.6  |
| 32.5° | 569.0  | 550.8 | 488.7 | 184.9 | 72.7  | 68.9  | 65.2  | 59.1  | 52.3  | 48.5  | 49.2  |
| 35°   | 599.3  | 574.3 | 480.4 | 119.7 | 65.2  | 60.6  | 53.0  | 46.2  | 40.2  | 37.1  | 37.1  |
| 37.5° | 650.9  | 627.4 | 446.3 | 78.8  | 59.1  | 51.5  | 43.9  | 36.4  | 31.1  | 28.8  | 28.8  |
| 40°   | 716.0  | 685.7 | 399.3 | 62.1  | 52.3  | 43.9  | 34.9  | 28.0  | 25.0  | 22.7  | 22.7  |
| 42.5° | 794.1  | 756.2 | 329.6 | 55.3  | 46.2  | 36.4  | 27.3  | 22.0  | 18.9  | 18.9  | 18.2  |
| 45°   | 872.1  | 810.0 | 258.4 | 50.8  | 40.9  | 30.3  | 21.2  | 17.4  | 15.9  | 15.2  | 15.2  |
| 47.5° | 983.5  | 875.1 | 184.9 | 46.2  | 35.6  | 23.5  | 17.4  | 14.4  | 12.9  | 12.1  | 12.9  |
| 50°   | 1090.3 | 936.5 | 131.1 | 41.7  | 29.5  | 18.9  | 14.4  | 12.9  | 11.4  | 10.6  | 10.6  |
| 52.5° | 1184.3 | 978.9 | 91.7  | 36.4  | 25.0  | 15.9  | 12.9  | 11.4  | 10.6  | 9.8   | 9.8   |
| 55°   | 1235.8 | 964.5 | 62.9  | 31.1  | 20.5  | 13.6  | 11.4  | 9.8   | 9.1   | 8.3   | 8.3   |
| 57.5° | 1288.8 | 924.4 | 47.7  | 25.8  | 16.7  | 12.9  | 10.6  | 9.1   | 8.3   | 7.6   | 7.6   |
| 60°   | 1333.5 | 894.8 | 37.1  | 20.5  | 13.6  | 10.6  | 9.1   | 7.6   | 6.8   | 6.1   | 5.3   |
| 62.5° | 1335.8 | 835.7 | 27.3  | 15.2  | 10.6  | 9.1   | 7.6   | 6.1   | 3.8   | 3.0   | 2.3   |
| 65°   | 1344.9 | 773.6 | 19.7  | 11.4  | 7.6   | 6.8   | 5.3   | 3.0   | 1.5   | 0.0   | 0.0   |
| 67.5° | 1313.1 | 700.1 | 15.9  | 8.3   | 5.3   | 3.8   | 2.3   | 0.8   | 0.0   | 0.0   | 0.0   |
| 70°   | 1183.5 | 591.0 | 12.1  | 6.1   | 3.8   | 2.3   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 847.1  | 384.1 | 8.3   | 4.5   | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 451.6  | 163.7 | 6.1   | 3.0   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 141.7  | 41.7  | 3.8   | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 31.1   | 11.4  | 2.3   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 10.6   | 4.5   | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.8    | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.5    | 0.8   | 0.8   | 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)