

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: P671102

Luminaire Tested: **CCP-SA-1A-740-U-T4W**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671102  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-740-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T4W  
distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2760 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

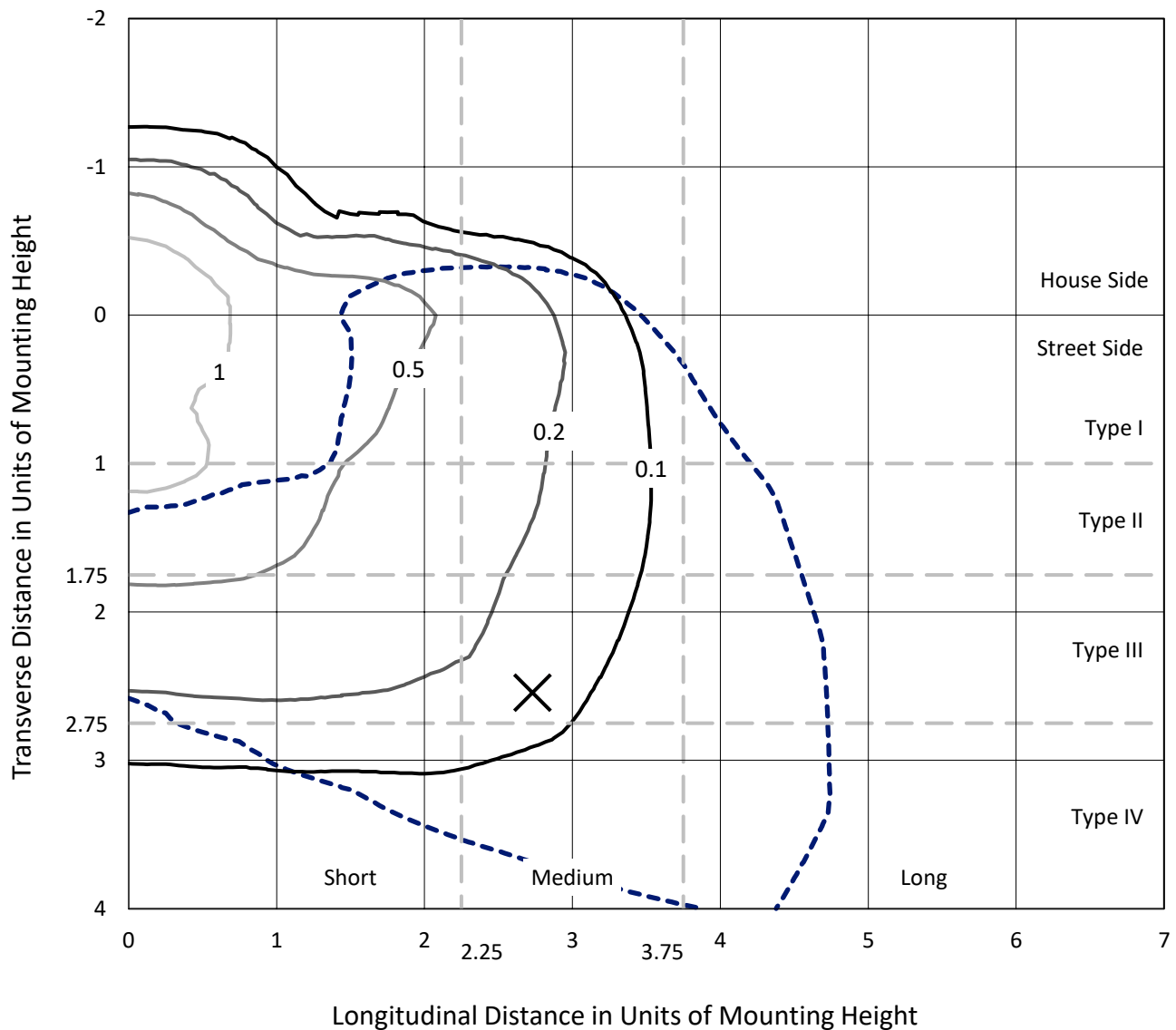
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

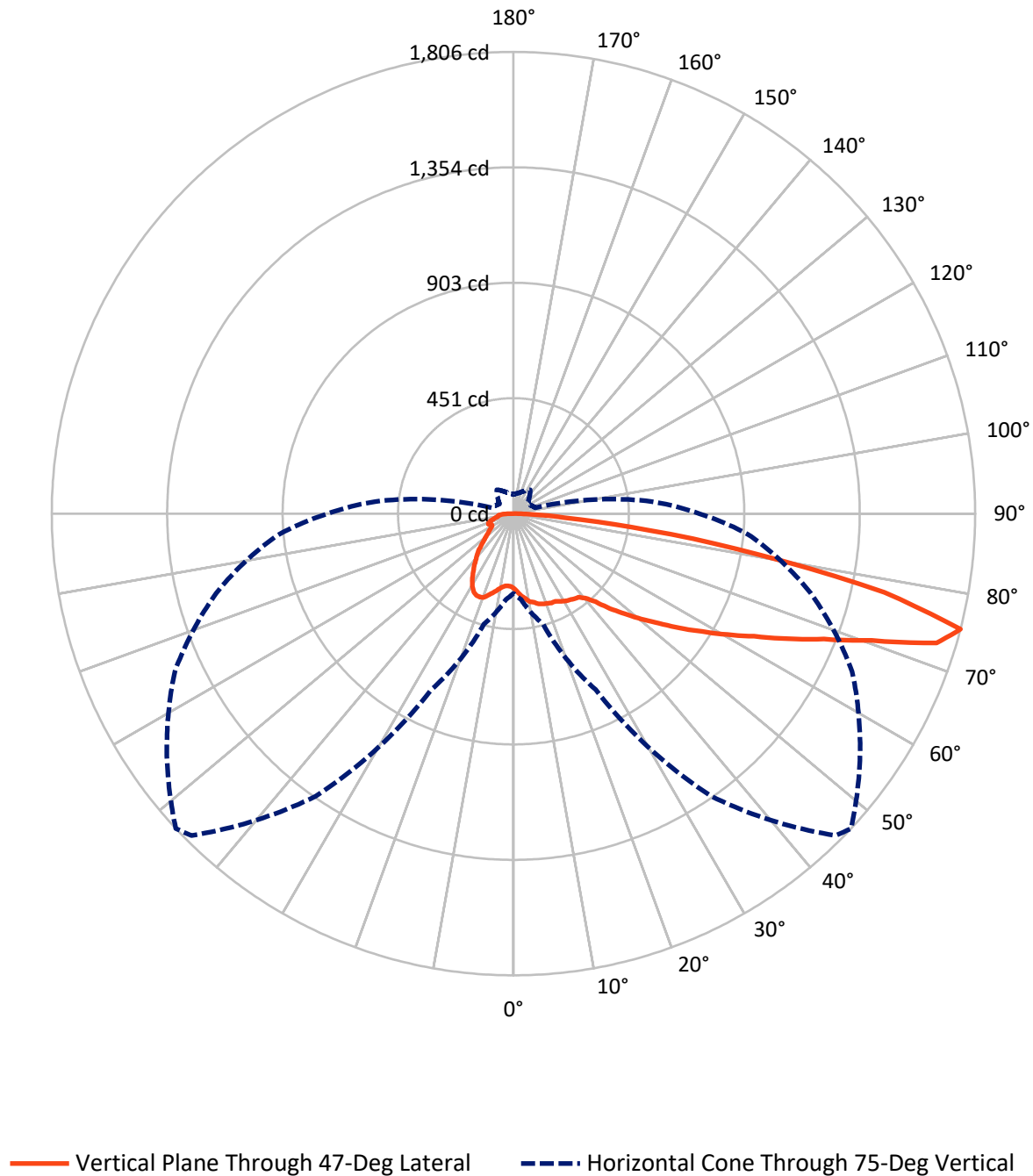
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - 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    | 660.0    | 0.0    | 660.0  |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 2099.9   | 0.0    | 2099.9 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 2760.0   | 0.0    | 2760.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.6   | 1.1       |
| 10°-20°   | 98.4   | 3.6       |
| 20°-30°   | 168.5  | 6.1       |
| 30°-40°   | 235.8  | 8.5       |
| 40°-50°   | 328.7  | 11.9      |
| 50°-60°   | 491.4  | 17.8      |
| 60°-70°   | 708.4  | 25.7      |
| 70°-80°   | 603.0  | 21.8      |
| 80°-90°   | 96.1   | 3.5       |
| 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°    | 2760.0 | 100.0     |
| 0°-180°   | 2760.0 | 100.0     |

**Coefficient of Utilization**



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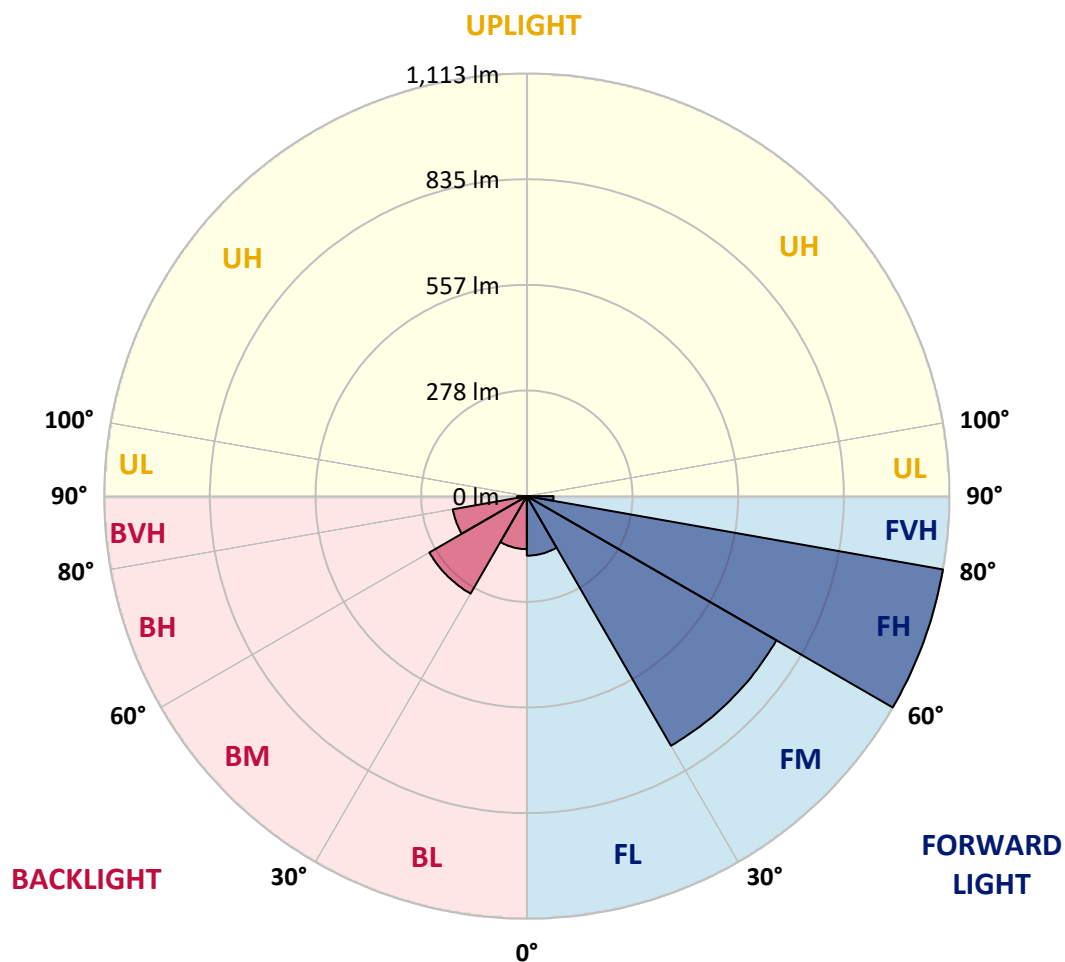
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 156.8  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 759.2  | 27.5      |                         |      |         |
| FH   | (60°-80°)   | 1113.5 | 40.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 70.4   | 2.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 139.7  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 296.7  | 10.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 198.0  | 7.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.7   | 0.9       |                         |      | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  | 293.0  |
| 2.5°  | 314.2  | 315.2  | 315.2  | 313.2  | 311.2  | 307.1  | 307.1  | 303.1  | 301.1  | 296.1  | 294.1  |
| 5°    | 343.4  | 340.4  | 337.4  | 336.4  | 331.3  | 324.3  | 323.3  | 319.2  | 308.2  | 303.1  | 296.1  |
| 7.5°  | 364.5  | 363.5  | 362.5  | 358.5  | 349.4  | 338.4  | 335.3  | 329.3  | 318.2  | 308.2  | 300.1  |
| 10°   | 381.7  | 385.7  | 381.7  | 372.6  | 363.5  | 351.5  | 350.5  | 339.4  | 329.3  | 317.2  | 307.1  |
| 12.5° | 400.8  | 401.8  | 394.8  | 383.7  | 369.6  | 359.5  | 355.5  | 351.5  | 340.4  | 330.3  | 315.2  |
| 15°   | 413.9  | 411.9  | 406.8  | 391.7  | 375.6  | 365.6  | 366.6  | 361.5  | 349.4  | 342.4  | 326.3  |
| 17.5° | 413.9  | 413.9  | 405.8  | 394.8  | 380.7  | 371.6  | 371.6  | 368.6  | 360.5  | 350.5  | 339.4  |
| 20°   | 405.8  | 405.8  | 400.8  | 394.8  | 378.6  | 376.6  | 374.6  | 372.6  | 372.6  | 363.5  | 347.4  |
| 22.5° | 395.8  | 393.8  | 395.8  | 385.7  | 374.6  | 376.6  | 379.7  | 378.6  | 375.6  | 367.6  | 356.5  |
| 25°   | 385.7  | 386.7  | 388.7  | 381.7  | 371.6  | 380.7  | 379.7  | 384.7  | 382.7  | 376.6  | 367.6  |
| 27.5° | 384.7  | 386.7  | 387.7  | 380.7  | 376.6  | 384.7  | 388.7  | 393.8  | 394.8  | 388.7  | 377.6  |
| 30°   | 399.8  | 398.8  | 397.8  | 388.7  | 385.7  | 392.7  | 396.8  | 403.8  | 409.9  | 396.8  | 387.7  |
| 32.5° | 439.1  | 433.0  | 427.0  | 402.8  | 393.8  | 398.8  | 402.8  | 412.9  | 413.9  | 406.8  | 393.8  |
| 35°   | 501.5  | 497.5  | 477.3  | 435.0  | 409.9  | 404.8  | 408.9  | 415.9  | 417.9  | 412.9  | 402.8  |
| 37.5° | 573.0  | 571.0  | 542.8  | 491.4  | 443.1  | 418.9  | 414.9  | 425.0  | 433.0  | 422.0  | 407.9  |
| 40°   | 643.5  | 635.4  | 615.3  | 564.9  | 485.4  | 440.1  | 435.0  | 440.1  | 443.1  | 435.0  | 426.0  |
| 42.5° | 706.9  | 697.9  | 692.8  | 642.5  | 540.8  | 475.3  | 471.3  | 459.2  | 468.3  | 458.2  | 446.1  |
| 45°   | 760.3  | 758.3  | 756.3  | 713.0  | 604.2  | 532.7  | 529.7  | 498.5  | 508.6  | 500.5  | 483.4  |
| 47.5° | 798.6  | 807.6  | 804.6  | 780.5  | 676.7  | 594.2  | 585.1  | 544.8  | 559.9  | 551.9  | 534.7  |
| 50°   | 843.9  | 848.9  | 845.9  | 829.8  | 744.2  | 664.6  | 647.5  | 606.2  | 623.4  | 622.4  | 613.3  |
| 52.5° | 884.2  | 899.3  | 882.2  | 881.2  | 840.9  | 741.2  | 712.0  | 672.7  | 700.9  | 712.0  | 711.0  |
| 55°   | 931.5  | 943.6  | 938.6  | 936.5  | 927.5  | 815.7  | 789.5  | 742.2  | 789.5  | 805.6  | 819.7  |
| 57.5° | 971.8  | 970.8  | 989.9  | 1013.1 | 1024.2 | 901.3  | 870.1  | 814.7  | 886.2  | 904.3  | 943.6  |
| 60°   | 989.9  | 1007.0 | 1039.3 | 1097.7 | 1128.9 | 992.9  | 960.7  | 916.4  | 983.9  | 998.0  | 1070.5 |
| 62.5° | 1002.0 | 1017.1 | 1079.5 | 1178.2 | 1196.4 | 1086.6 | 1056.4 | 1012.1 | 1090.6 | 1100.7 | 1208.4 |
| 65°   | 968.8  | 982.9  | 1106.7 | 1208.4 | 1272.9 | 1187.3 | 1180.3 | 1133.9 | 1197.4 | 1203.4 | 1353.5 |
| 67.5° | 930.5  | 945.6  | 1083.6 | 1246.7 | 1374.6 | 1321.2 | 1310.2 | 1254.8 | 1303.1 | 1296.1 | 1464.2 |
| 70°   | 863.0  | 883.2  | 1024.2 | 1279.9 | 1487.4 | 1508.5 | 1486.4 | 1407.8 | 1412.9 | 1346.4 | 1469.3 |
| 72.5° | 657.6  | 670.7  | 801.6  | 1148.0 | 1539.8 | 1768.4 | 1730.1 | 1573.0 | 1515.6 | 1356.5 | 1297.1 |
| 75°   | 312.2  | 336.4  | 447.1  | 759.3  | 1349.4 | 1780.4 | 1805.6 | 1654.6 | 1461.2 | 1203.4 | 919.4  |
| 77.5° | 90.6   | 90.6   | 136.0  | 322.3  | 845.9  | 1435.0 | 1482.4 | 1404.8 | 1205.4 | 891.2  | 483.4  |
| 80°   | 49.3   | 52.4   | 71.5   | 113.8  | 371.6  | 905.3  | 973.8  | 931.5  | 710.0  | 352.5  | 124.9  |
| 82.5° | 28.2   | 29.2   | 47.3   | 68.5   | 169.2  | 492.4  | 532.7  | 483.4  | 269.9  | 106.7  | 58.4   |
| 85°   | 16.1   | 17.1   | 27.2   | 45.3   | 100.7  | 181.3  | 197.4  | 171.2  | 108.8  | 71.5   | 29.2   |
| 87.5° | 8.1    | 8.1    | 13.1   | 21.1   | 51.4   | 51.4   | 50.4   | 61.4   | 65.5   | 43.3   | 13.1   |
| 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°    | 293.0  | 293.0  | 293.0 | 293.0 | 293.0 | 293.0 | 293.0 | 293.0 | 293.0 | 293.0 | 293.0 |
| 2.5°  | 293.0  | 292.0  | 292.0 | 288.0 | 287.0 | 284.0 | 284.0 | 282.0 | 281.0 | 284.0 | 284.0 |
| 5°    | 294.1  | 289.0  | 288.0 | 284.0 | 285.0 | 283.0 | 287.0 | 285.0 | 284.0 | 284.0 | 283.0 |
| 7.5°  | 296.1  | 291.0  | 287.0 | 284.0 | 283.0 | 286.0 | 291.0 | 291.0 | 297.1 | 294.1 | 294.1 |
| 10°   | 301.1  | 298.1  | 293.0 | 291.0 | 291.0 | 294.1 | 300.1 | 304.1 | 309.2 | 309.2 | 306.1 |
| 12.5° | 313.2  | 308.2  | 302.1 | 299.1 | 303.1 | 306.1 | 312.2 | 316.2 | 322.3 | 324.3 | 322.3 |
| 15°   | 322.3  | 317.2  | 315.2 | 313.2 | 316.2 | 320.2 | 325.3 | 329.3 | 336.4 | 338.4 | 337.4 |
| 17.5° | 334.3  | 328.3  | 327.3 | 328.3 | 330.3 | 333.3 | 336.4 | 339.4 | 344.4 | 344.4 | 344.4 |
| 20°   | 340.4  | 338.4  | 337.4 | 340.4 | 344.4 | 348.4 | 346.4 | 344.4 | 343.4 | 345.4 | 344.4 |
| 22.5° | 351.5  | 349.4  | 350.5 | 353.5 | 353.5 | 351.5 | 348.4 | 341.4 | 339.4 | 341.4 | 339.4 |
| 25°   | 361.5  | 359.5  | 359.5 | 357.5 | 356.5 | 349.4 | 343.4 | 337.4 | 330.3 | 333.3 | 332.3 |
| 27.5° | 371.6  | 370.6  | 370.6 | 362.5 | 352.5 | 340.4 | 332.3 | 325.3 | 321.2 | 326.3 | 323.3 |
| 30°   | 383.7  | 384.7  | 379.7 | 360.5 | 336.4 | 323.3 | 314.2 | 313.2 | 312.2 | 315.2 | 314.2 |
| 32.5° | 394.8  | 395.8  | 387.7 | 357.5 | 324.3 | 299.1 | 290.0 | 291.0 | 296.1 | 301.1 | 306.1 |
| 35°   | 400.8  | 405.8  | 395.8 | 347.4 | 300.1 | 271.9 | 261.8 | 270.9 | 280.0 | 287.0 | 292.0 |
| 37.5° | 411.9  | 425.0  | 407.9 | 336.4 | 279.0 | 247.7 | 240.7 | 243.7 | 254.8 | 265.9 | 270.9 |
| 40°   | 428.0  | 443.1  | 410.9 | 315.2 | 250.8 | 223.6 | 219.5 | 220.5 | 224.6 | 231.6 | 236.7 |
| 42.5° | 456.2  | 472.3  | 413.9 | 288.0 | 222.6 | 208.5 | 197.4 | 194.4 | 191.3 | 191.3 | 190.3 |
| 45°   | 497.5  | 512.6  | 409.9 | 253.8 | 194.4 | 184.3 | 176.2 | 169.2 | 161.1 | 148.0 | 150.0 |
| 47.5° | 557.9  | 570.0  | 412.9 | 223.6 | 168.2 | 160.1 | 154.1 | 146.0 | 133.9 | 119.8 | 118.8 |
| 50°   | 649.5  | 631.4  | 408.9 | 192.3 | 149.0 | 142.0 | 137.0 | 125.9 | 111.8 | 101.7 | 100.7 |
| 52.5° | 756.3  | 720.0  | 404.8 | 166.2 | 132.9 | 126.9 | 122.9 | 110.8 | 97.7  | 92.6  | 91.6  |
| 55°   | 885.2  | 832.8  | 410.9 | 143.0 | 120.8 | 115.8 | 111.8 | 100.7 | 90.6  | 86.6  | 85.6  |
| 57.5° | 1037.3 | 954.7  | 444.1 | 124.9 | 107.8 | 105.7 | 104.7 | 95.7  | 86.6  | 83.6  | 82.6  |
| 60°   | 1180.3 | 1071.5 | 466.3 | 111.8 | 95.7  | 97.7  | 99.7  | 95.7  | 85.6  | 83.6  | 83.6  |
| 62.5° | 1300.1 | 1168.2 | 431.0 | 100.7 | 89.6  | 95.7  | 104.7 | 101.7 | 97.7  | 99.7  | 97.7  |
| 65°   | 1405.8 | 1201.4 | 322.3 | 94.7  | 86.6  | 100.7 | 115.8 | 114.8 | 105.7 | 107.8 | 106.7 |
| 67.5° | 1424.0 | 1161.1 | 210.5 | 89.6  | 84.6  | 110.8 | 129.9 | 117.8 | 99.7  | 99.7  | 96.7  |
| 70°   | 1348.4 | 1053.4 | 141.0 | 84.6  | 83.6  | 110.8 | 132.9 | 110.8 | 93.7  | 93.7  | 89.6  |
| 72.5° | 1106.7 | 841.9  | 108.8 | 79.6  | 76.5  | 98.7  | 125.9 | 104.7 | 87.6  | 85.6  | 78.5  |
| 75°   | 727.1  | 542.8  | 88.6  | 75.5  | 66.5  | 86.6  | 113.8 | 96.7  | 83.6  | 77.5  | 74.5  |
| 77.5° | 356.5  | 243.7  | 74.5  | 66.5  | 57.4  | 75.5  | 103.7 | 91.6  | 78.5  | 72.5  | 70.5  |
| 80°   | 97.7   | 87.6   | 62.4  | 58.4  | 48.3  | 65.5  | 97.7  | 87.6  | 73.5  | 67.5  | 64.5  |
| 82.5° | 55.4   | 54.4   | 50.4  | 47.3  | 40.3  | 65.5  | 98.7  | 87.6  | 69.5  | 68.5  | 58.4  |
| 85°   | 30.2   | 32.2   | 36.3  | 35.2  | 31.2  | 58.4  | 93.7  | 76.5  | 56.4  | 47.3  | 47.3  |
| 87.5° | 12.1   | 15.1   | 18.1  | 20.1  | 21.1  | 43.3  | 70.5  | 58.4  | 43.3  | 36.3  | 36.3  |
| 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)