

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: P673507

Luminaire Tested: **CCP-SA-1B-722-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673507  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-722-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4W distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

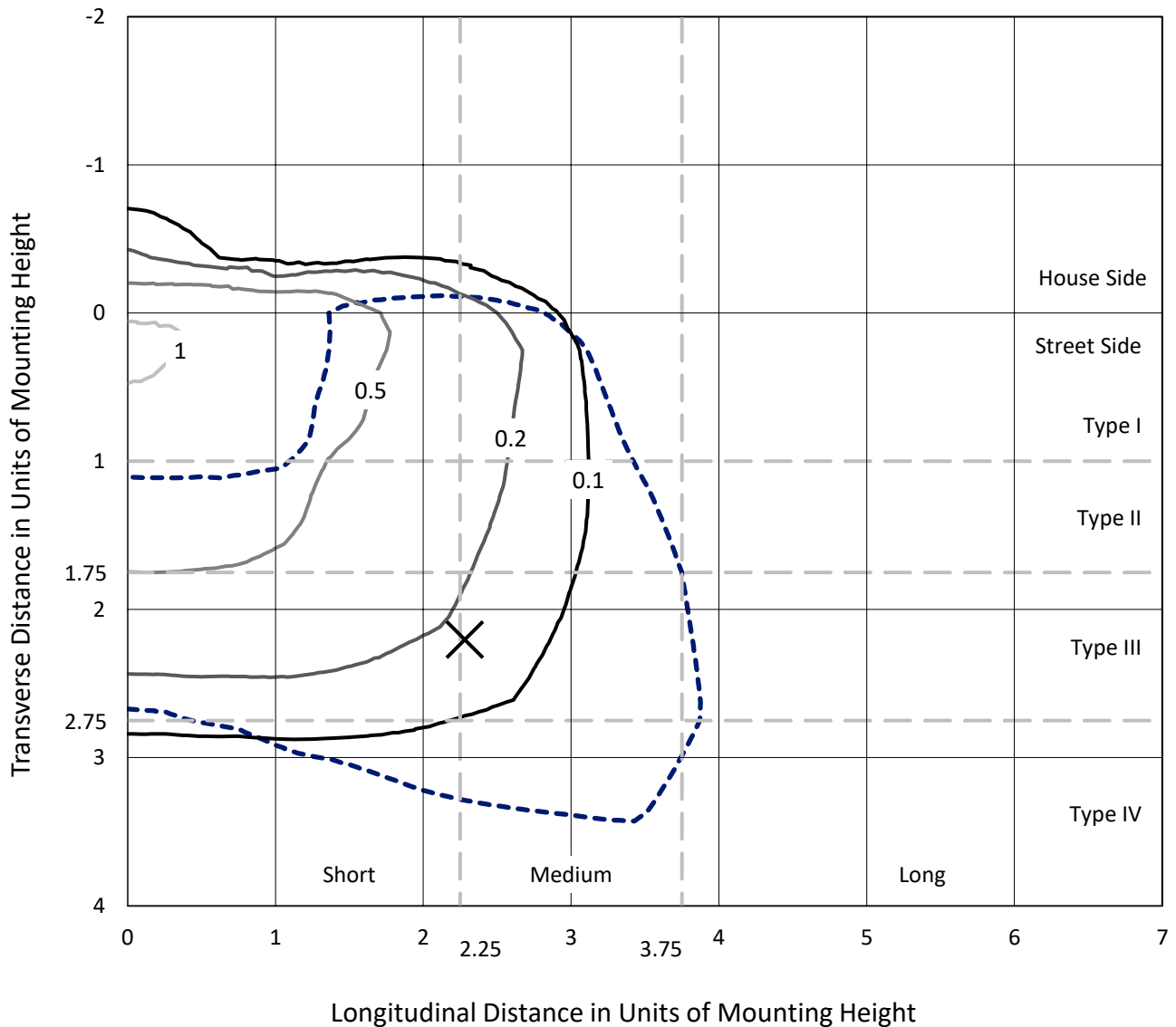
Lumens per Lamp: N/A  
Luminaire Lumens: 1835.4 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

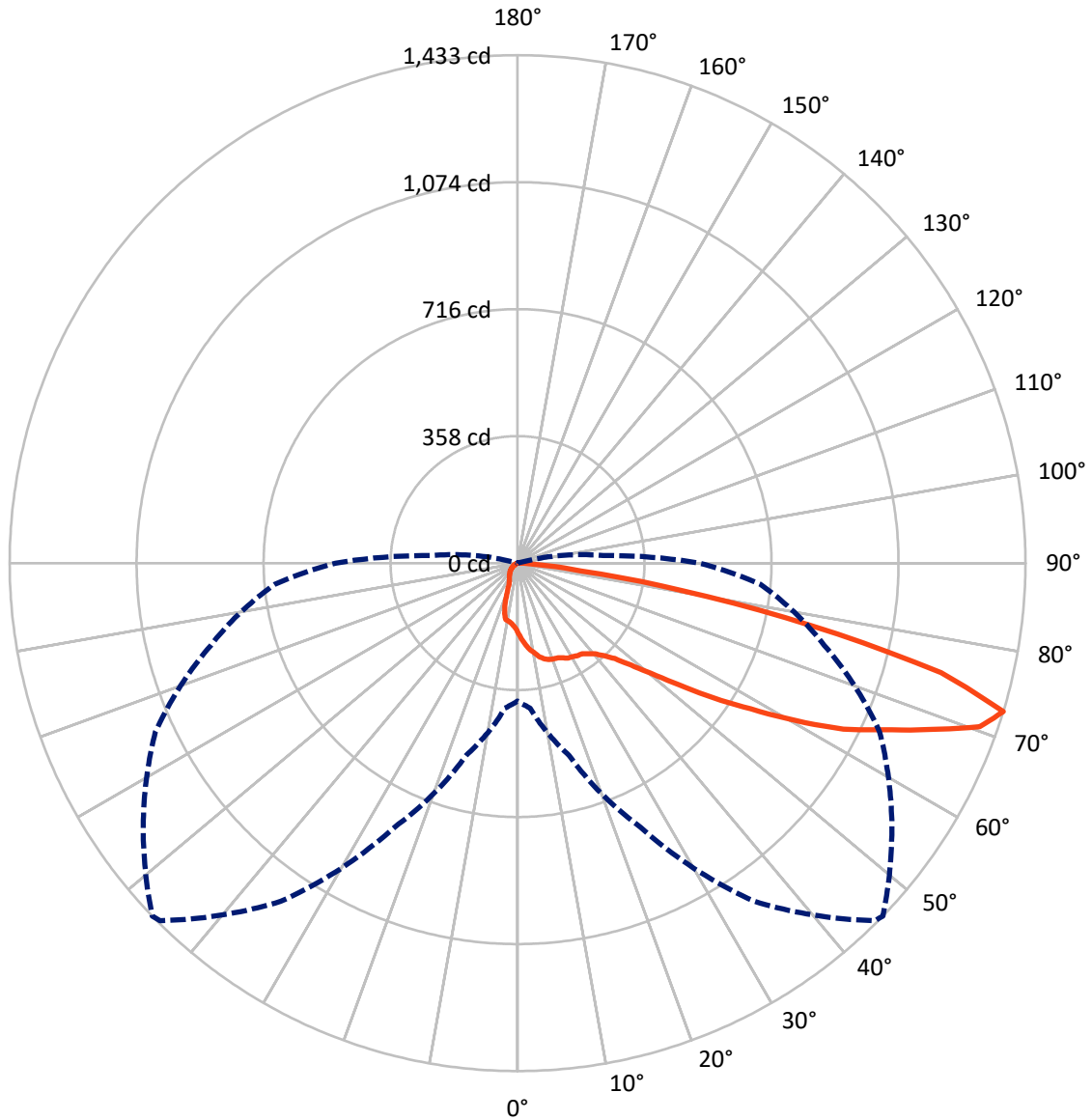
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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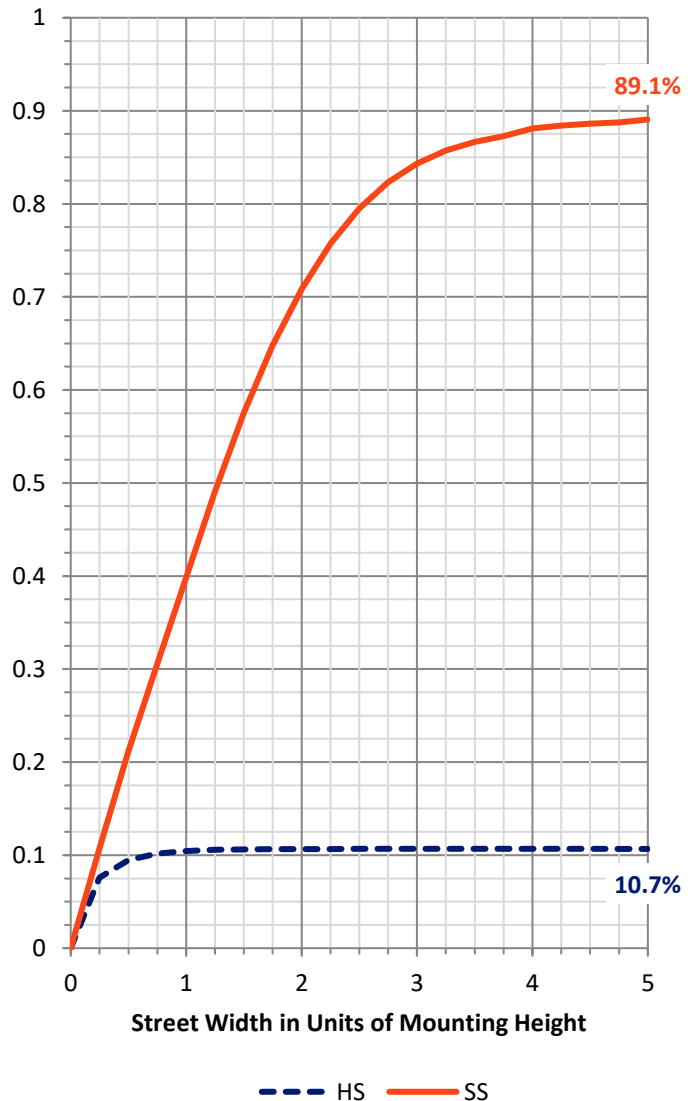
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 197.6    | 0.0    | 197.6  |
|                    | % Fixture | 10.8     | 0.0    | 10.8   |
| <b>Street Side</b> | Lumens    | 1637.8   | 0.0    | 1637.8 |
|                    | % Fixture | 89.2     | 0.0    | 89.2   |
| <b>Total</b>       | Lumens    | 1835.4   | 0.0    | 1835.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.6   | 1.1       |
| 10°-20°   | 59.3   | 3.2       |
| 20°-30°   | 92.8   | 5.1       |
| 30°-40°   | 130.0  | 7.1       |
| 40°-50°   | 214.3  | 11.7      |
| 50°-60°   | 385.2  | 21.0      |
| 60°-70°   | 558.3  | 30.4      |
| 70°-80°   | 348.4  | 19.0      |
| 80°-90°   | 27.6   | 1.5       |
| 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°    | 1835.4 | 100.0     |
| 0°-180°   | 1835.4 | 100.0     |

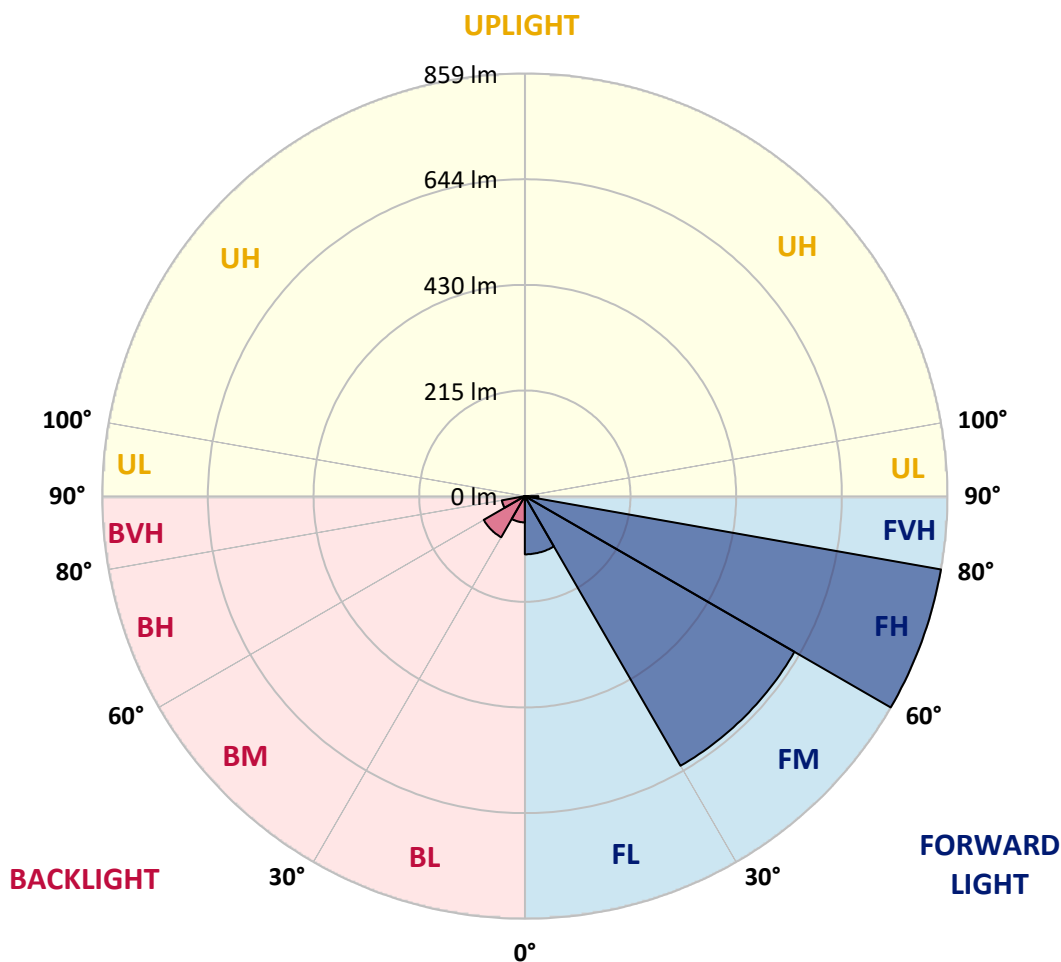


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 118.3  | 6.4       |                         |      |         |
| FM (30°-60°)   | 632.9  | 34.5      |                         |      |         |
| FH (60°-80°)   | 859.1  | 46.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 27.5   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 53.4   | 2.9       | B0/110                  |      |         |
| BM (30°-60°)   | 96.5   | 5.3       | B0/220                  |      |         |
| BH (60°-80°)   | 47.5   | 2.6       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.1    | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 196.2 | 196.2 | 196.2  | 196.2  | 196.2  | 196.2  | 196.2  | 196.2  | 196.2  | 196.2  | 196.2  |
| 2.5°  | 219.6 | 218.6 | 220.0  | 219.6  | 213.9  | 214.9  | 214.4  | 210.7  | 204.1  | 200.4  | 198.0  |
| 5°    | 244.8 | 247.2 | 245.3  | 241.1  | 237.8  | 231.3  | 230.3  | 224.2  | 213.9  | 207.4  | 200.4  |
| 7.5°  | 271.1 | 271.1 | 267.3  | 260.8  | 253.7  | 246.7  | 245.8  | 235.5  | 226.6  | 215.4  | 205.5  |
| 10°   | 290.7 | 288.4 | 285.6  | 278.6  | 270.6  | 261.2  | 256.6  | 249.1  | 239.2  | 225.7  | 213.0  |
| 12.5° | 308.0 | 304.3 | 299.6  | 289.3  | 280.0  | 269.7  | 270.6  | 258.4  | 251.9  | 239.7  | 221.0  |
| 15°   | 317.9 | 314.6 | 310.4  | 301.0  | 286.5  | 281.8  | 280.0  | 272.5  | 260.8  | 248.6  | 230.8  |
| 17.5° | 320.2 | 317.9 | 312.3  | 300.1  | 292.1  | 286.5  | 286.0  | 277.2  | 272.0  | 261.7  | 242.0  |
| 20°   | 315.5 | 311.3 | 307.1  | 299.2  | 291.7  | 289.8  | 288.4  | 288.4  | 281.8  | 268.3  | 249.1  |
| 22.5° | 307.6 | 302.9 | 300.6  | 295.9  | 289.8  | 289.3  | 290.3  | 289.3  | 284.2  | 275.3  | 256.6  |
| 25°   | 301.5 | 299.2 | 295.4  | 294.0  | 290.3  | 297.3  | 295.9  | 294.5  | 293.1  | 282.8  | 268.3  |
| 27.5° | 303.4 | 302.9 | 300.1  | 294.5  | 291.7  | 299.2  | 303.4  | 303.8  | 303.4  | 293.1  | 279.0  |
| 30°   | 304.3 | 302.0 | 299.2  | 297.7  | 298.7  | 306.2  | 306.2  | 316.5  | 312.3  | 302.0  | 289.8  |
| 32.5° | 315.1 | 313.7 | 304.3  | 301.0  | 301.5  | 310.4  | 310.9  | 321.2  | 319.8  | 312.7  | 299.2  |
| 35°   | 338.0 | 328.6 | 315.1  | 305.7  | 305.7  | 317.4  | 313.7  | 328.6  | 332.4  | 321.2  | 305.7  |
| 37.5° | 372.2 | 365.2 | 340.8  | 319.8  | 311.8  | 320.2  | 324.0  | 332.4  | 343.6  | 333.8  | 318.8  |
| 40°   | 440.1 | 438.7 | 404.0  | 358.6  | 327.2  | 334.7  | 336.1  | 349.2  | 356.7  | 343.2  | 338.9  |
| 42.5° | 539.3 | 532.3 | 500.0  | 428.4  | 355.3  | 352.1  | 357.2  | 365.6  | 383.4  | 372.2  | 361.9  |
| 45°   | 636.2 | 633.0 | 600.6  | 520.6  | 406.4  | 386.7  | 383.9  | 398.9  | 425.1  | 412.9  | 405.0  |
| 47.5° | 706.5 | 699.9 | 681.6  | 614.2  | 481.3  | 427.4  | 429.3  | 444.3  | 477.5  | 468.2  | 470.5  |
| 50°   | 760.3 | 757.0 | 737.8  | 700.8  | 575.8  | 491.6  | 487.8  | 502.8  | 547.7  | 553.8  | 560.4  |
| 52.5° | 819.3 | 825.4 | 799.6  | 768.2  | 687.7  | 577.7  | 569.3  | 574.4  | 632.5  | 646.5  | 664.8  |
| 55°   | 875.9 | 885.8 | 860.0  | 855.8  | 804.8  | 673.2  | 671.8  | 659.6  | 734.5  | 736.4  | 746.2  |
| 57.5° | 912.9 | 909.6 | 907.8  | 930.7  | 921.8  | 782.8  | 775.7  | 763.6  | 831.5  | 819.3  | 848.8  |
| 60°   | 915.7 | 925.1 | 956.4  | 1013.1 | 1029.0 | 911.5  | 901.2  | 868.0  | 915.3  | 886.2  | 942.4  |
| 62.5° | 936.8 | 944.3 | 1002.3 | 1080.5 | 1101.1 | 1024.8 | 1031.8 | 947.6  | 986.9  | 963.9  | 1046.3 |
| 65°   | 883.4 | 906.8 | 1023.4 | 1132.9 | 1195.7 | 1139.5 | 1132.5 | 1050.1 | 1060.4 | 1038.8 | 1148.9 |
| 67.5° | 835.2 | 844.1 | 965.8  | 1148.9 | 1270.6 | 1254.7 | 1251.9 | 1140.9 | 1136.2 | 1096.4 | 1177.9 |
| 70°   | 678.8 | 689.6 | 809.9  | 1067.4 | 1295.9 | 1389.0 | 1382.5 | 1268.2 | 1187.7 | 1065.1 | 1029.0 |
| 72.5° | 389.0 | 410.6 | 561.3  | 822.1  | 1164.3 | 1426.5 | 1432.6 | 1288.8 | 1126.9 | 895.6  | 687.3  |
| 75°   | 127.3 | 133.4 | 233.1  | 465.8  | 870.8  | 1244.4 | 1233.6 | 1107.7 | 909.2  | 591.3  | 310.4  |
| 77.5° | 43.1  | 44.0  | 68.8   | 168.5  | 482.7  | 840.8  | 846.9  | 791.7  | 558.5  | 245.8  | 85.7   |
| 80°   | 22.0  | 23.4  | 33.7   | 63.2   | 198.5  | 457.9  | 467.7  | 451.3  | 234.1  | 72.6   | 20.6   |
| 82.5° | 10.3  | 10.8  | 19.7   | 35.1   | 90.8   | 179.8  | 179.8  | 197.6  | 82.9   | 40.7   | 8.4    |
| 85°   | 3.7   | 3.7   | 10.3   | 20.1   | 38.4   | 59.9   | 60.4   | 60.9   | 43.5   | 30.4   | 3.7    |
| 87.5° | 1.4   | 1.4   | 5.1    | 8.4    | 14.0   | 18.3   | 18.3   | 14.5   | 22.0   | 20.1   | 1.4    |
| 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°    | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 | 196.2 |
| 2.5°  | 197.1 | 194.3 | 191.9 | 188.7 | 184.5 | 182.1 | 182.6 | 179.8 | 179.8 | 178.4 | 177.9 |
| 5°    | 197.1 | 194.3 | 188.2 | 182.6 | 178.8 | 174.2 | 171.8 | 169.9 | 169.9 | 169.0 | 169.5 |
| 7.5°  | 198.5 | 194.3 | 185.9 | 178.4 | 172.3 | 167.6 | 163.9 | 163.4 | 162.5 | 160.1 | 162.0 |
| 10°   | 206.9 | 200.8 | 186.8 | 176.5 | 169.5 | 164.3 | 157.8 | 155.9 | 153.1 | 148.9 | 149.3 |
| 12.5° | 213.9 | 206.0 | 193.3 | 179.3 | 170.4 | 162.0 | 147.0 | 130.6 | 123.6 | 116.1 | 116.6 |
| 15°   | 224.2 | 213.0 | 195.7 | 183.1 | 170.4 | 143.3 | 116.1 | 95.0  | 83.8  | 78.2  | 78.2  |
| 17.5° | 229.9 | 220.5 | 202.2 | 185.4 | 156.8 | 116.6 | 82.4  | 64.1  | 62.3  | 63.2  | 63.2  |
| 20°   | 241.6 | 228.9 | 209.7 | 187.3 | 134.4 | 82.9  | 60.4  | 58.5  | 59.5  | 61.3  | 60.9  |
| 22.5° | 249.1 | 236.4 | 215.4 | 178.8 | 103.9 | 59.5  | 56.6  | 55.7  | 56.6  | 59.0  | 59.0  |
| 25°   | 255.1 | 247.2 | 224.2 | 158.2 | 73.5  | 53.8  | 52.9  | 53.8  | 54.8  | 55.7  | 57.1  |
| 27.5° | 270.1 | 256.6 | 230.3 | 131.6 | 52.9  | 50.1  | 51.0  | 51.5  | 51.5  | 52.9  | 53.4  |
| 30°   | 280.0 | 269.2 | 235.0 | 101.6 | 46.8  | 46.3  | 47.3  | 47.8  | 48.2  | 49.6  | 50.1  |
| 32.5° | 289.3 | 285.6 | 228.9 | 68.8  | 44.0  | 43.1  | 42.6  | 43.1  | 44.9  | 46.3  | 45.9  |
| 35°   | 302.9 | 300.6 | 220.0 | 47.8  | 41.2  | 39.3  | 38.4  | 38.9  | 40.3  | 41.7  | 41.2  |
| 37.5° | 319.3 | 321.6 | 198.5 | 41.7  | 38.4  | 36.0  | 34.2  | 34.2  | 34.6  | 36.0  | 36.5  |
| 40°   | 338.5 | 344.6 | 173.2 | 38.9  | 36.5  | 33.7  | 31.8  | 29.5  | 29.0  | 28.6  | 29.0  |
| 42.5° | 373.6 | 380.6 | 144.7 | 37.0  | 33.7  | 30.4  | 27.6  | 24.8  | 22.5  | 21.1  | 21.1  |
| 45°   | 422.7 | 417.1 | 107.2 | 35.1  | 32.3  | 27.6  | 23.4  | 20.1  | 16.9  | 15.4  | 15.4  |
| 47.5° | 490.6 | 471.4 | 73.5  | 33.2  | 30.0  | 24.3  | 19.7  | 15.4  | 12.6  | 11.2  | 11.2  |
| 50°   | 584.7 | 521.5 | 47.8  | 31.4  | 28.6  | 21.1  | 15.9  | 11.2  | 9.4   | 8.9   | 9.4   |
| 52.5° | 673.7 | 572.6 | 37.9  | 29.0  | 25.7  | 18.3  | 12.2  | 9.4   | 8.4   | 8.0   | 8.0   |
| 55°   | 755.6 | 598.3 | 33.7  | 26.7  | 23.4  | 15.0  | 10.3  | 8.0   | 7.5   | 7.0   | 7.0   |
| 57.5° | 824.9 | 607.2 | 29.0  | 23.4  | 18.7  | 11.7  | 8.4   | 7.0   | 6.1   | 5.6   | 5.6   |
| 60°   | 884.8 | 609.5 | 22.5  | 18.7  | 13.6  | 8.9   | 7.0   | 6.1   | 5.1   | 4.2   | 4.2   |
| 62.5° | 932.6 | 593.2 | 15.9  | 13.1  | 9.4   | 7.0   | 6.1   | 4.2   | 2.8   | 1.9   | 1.4   |
| 65°   | 970.5 | 560.4 | 10.8  | 8.9   | 6.1   | 5.1   | 3.7   | 1.9   | 0.5   | 0.0   | 0.0   |
| 67.5° | 926.0 | 485.9 | 8.4   | 6.6   | 4.2   | 3.3   | 1.9   | 0.5   | 0.0   | 0.0   | 0.0   |
| 70°   | 755.1 | 376.9 | 6.1   | 4.2   | 2.8   | 0.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 514.0 | 243.0 | 4.7   | 2.8   | 1.4   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 230.8 | 87.1  | 3.3   | 1.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 56.2  | 20.6  | 2.3   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 15.0  | 5.1   | 1.4   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 5.6   | 1.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 2.3   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.9   | 0.5   | 0.0   | 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)