

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: P677005

Luminaire Tested: **CCW-SA-1A-750-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677005  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-750-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

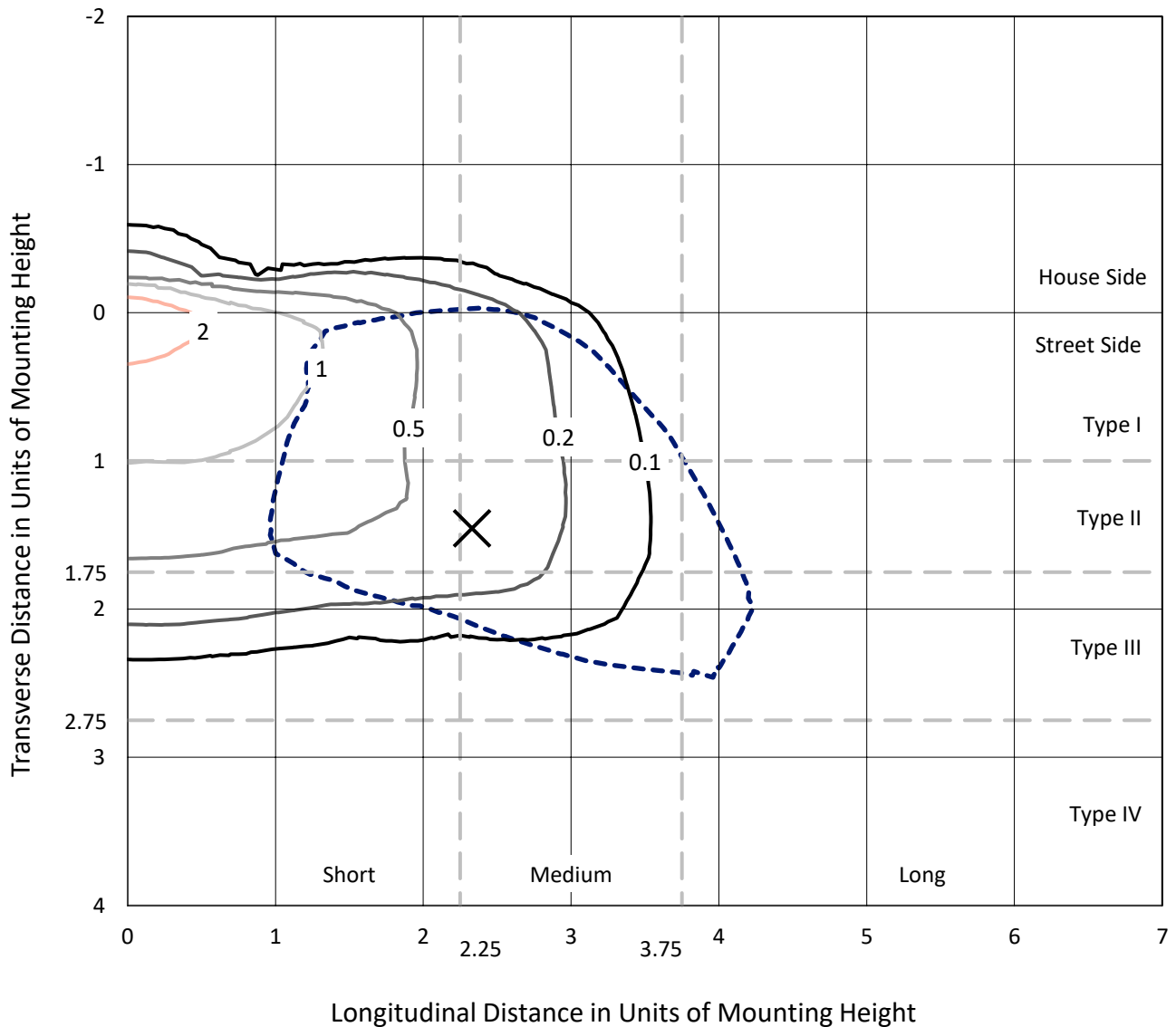
Lumens per Lamp: N/A  
Luminaire Lumens: 2312.5 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

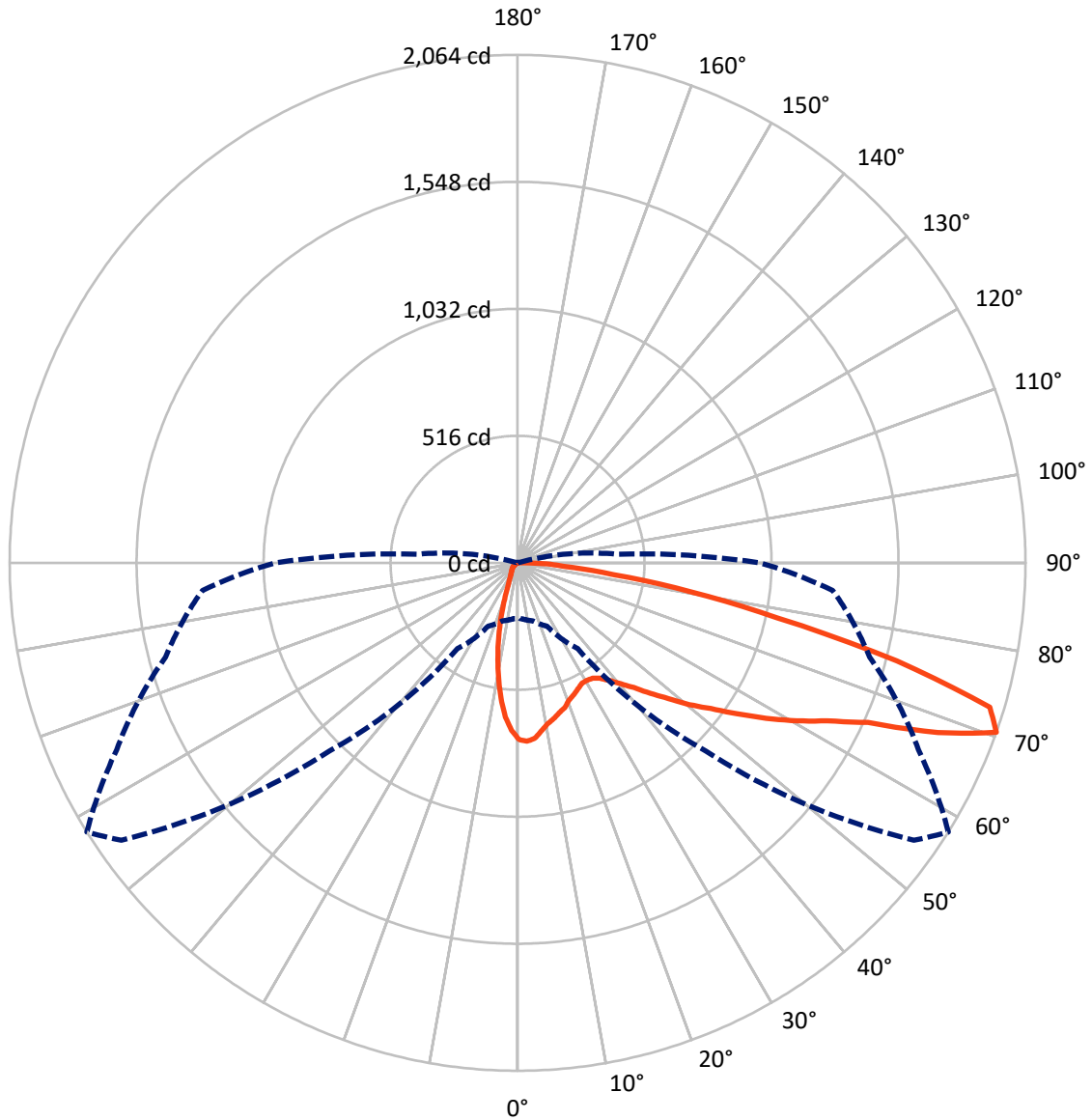
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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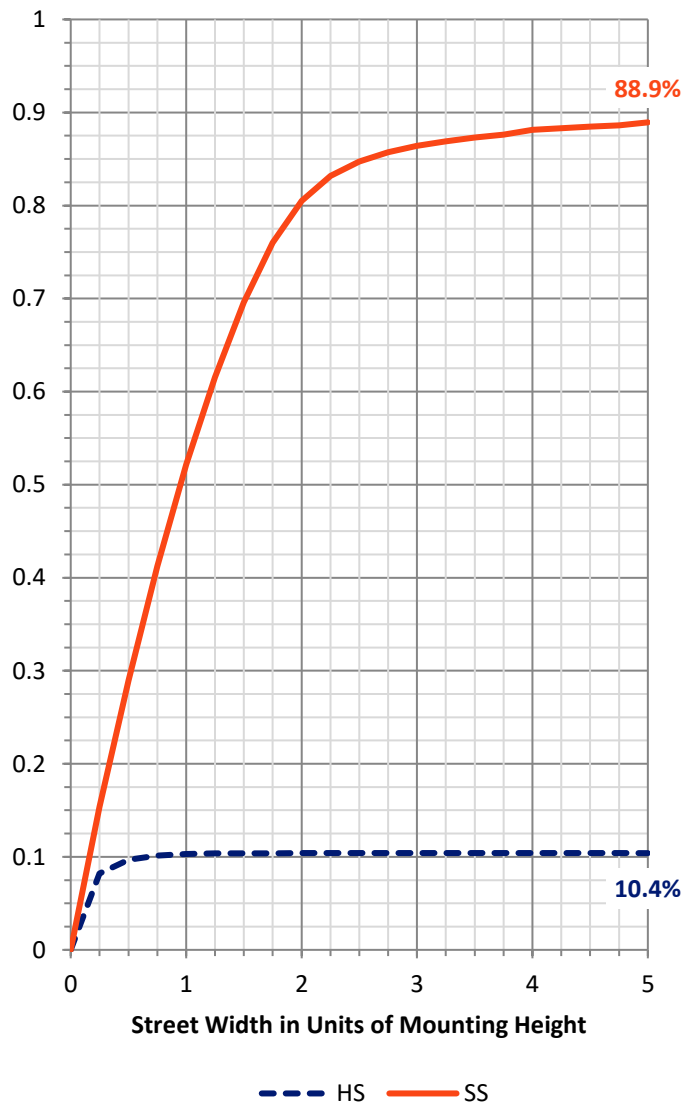
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 242.2    | 0.0    | 242.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 2070.3   | 0.0    | 2070.3 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 2312.5   | 0.0    | 2312.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.6   | 2.5       |
| 10°-20°   | 121.9  | 5.3       |
| 20°-30°   | 163.3  | 7.1       |
| 30°-40°   | 220.7  | 9.5       |
| 40°-50°   | 316.8  | 13.7      |
| 50°-60°   | 466.8  | 20.2      |
| 60°-70°   | 569.4  | 24.6      |
| 70°-80°   | 347.7  | 15.0      |
| 80°-90°   | 47.2   | 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°    | 2312.5 | 100.0     |
| 0°-180°   | 2312.5 | 100.0     |

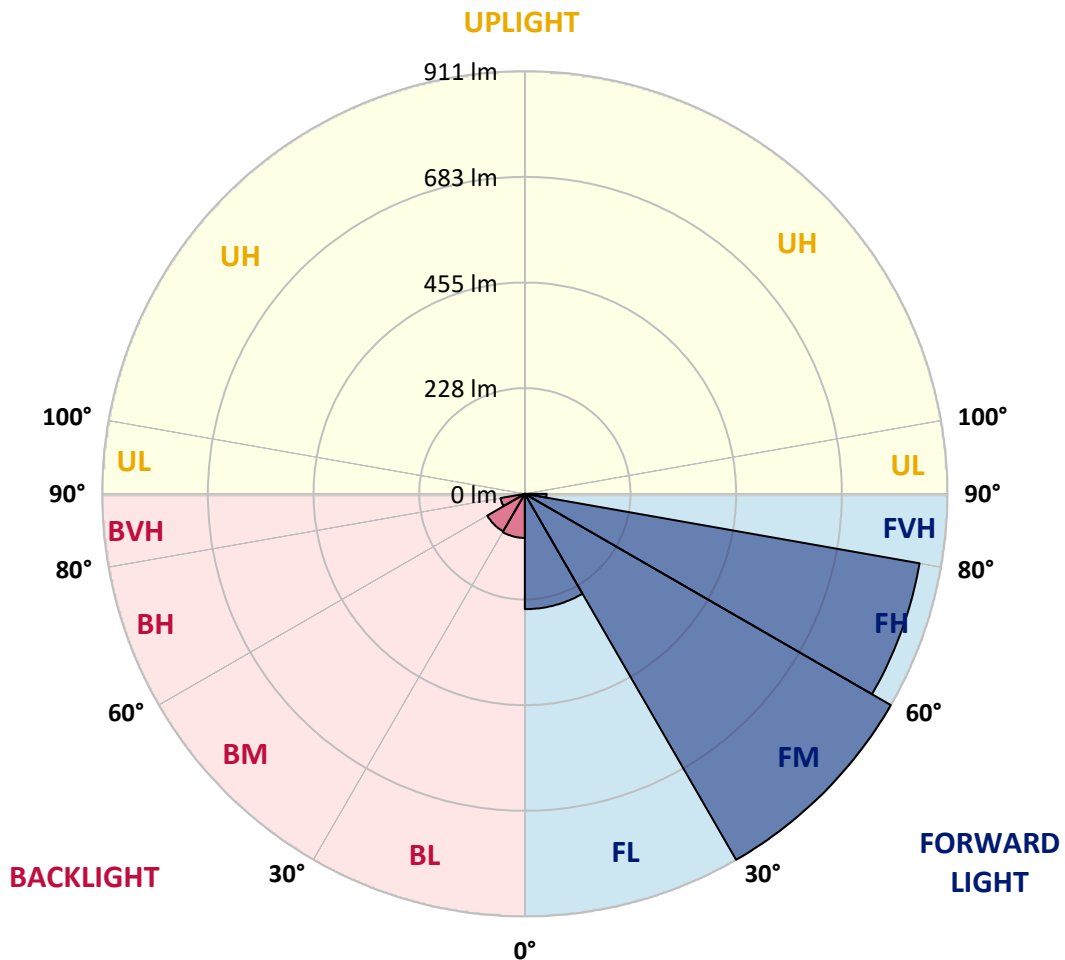


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 248.6  | 10.8      |                         |      |         |
| FM (30°-60°)   | 910.9  | 39.4      |                         |      |         |
| FH (60°-80°)   | 864.1  | 37.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 46.8   | 2.0       |                         |      | G1/100  |
| BL (0°-30°)    | 95.2   | 4.1       | B0/110                  |      |         |
| BM (30°-60°)   | 93.5   | 4.0       | B0/220                  |      |         |
| BH (60°-80°)   | 53.1   | 2.3       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.5    | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 717.9 | 717.9 | 717.9 | 717.9 | 717.9  | 717.9  | 717.9  | 717.9  | 717.9  | 717.9  | 717.9  |
| 2.5°  | 730.9 | 733.6 | 727.1 | 734.7 | 727.6  | 730.9  | 727.1  | 726.0  | 726.5  | 727.1  | 722.7  |
| 5°    | 696.7 | 703.2 | 705.9 | 701.6 | 711.9  | 710.3  | 716.8  | 717.3  | 714.6  | 711.9  | 712.4  |
| 7.5°  | 651.7 | 658.2 | 660.9 | 663.7 | 674.0  | 687.5  | 696.2  | 690.8  | 695.1  | 704.9  | 690.2  |
| 10°   | 619.2 | 617.6 | 617.0 | 622.4 | 642.0  | 653.3  | 668.0  | 666.4  | 677.2  | 686.4  | 674.5  |
| 12.5° | 579.1 | 575.8 | 585.6 | 589.9 | 607.3  | 627.3  | 638.7  | 650.6  | 661.5  | 671.2  | 657.7  |
| 15°   | 549.2 | 552.0 | 555.8 | 565.0 | 577.4  | 604.0  | 620.8  | 632.2  | 651.7  | 656.6  | 651.2  |
| 17.5° | 525.4 | 527.6 | 533.0 | 537.9 | 553.6  | 579.1  | 605.6  | 619.2  | 639.8  | 652.8  | 636.0  |
| 20°   | 525.9 | 519.4 | 519.4 | 524.3 | 533.0  | 563.3  | 591.5  | 595.9  | 624.1  | 646.3  | 634.9  |
| 22.5° | 526.5 | 524.3 | 519.4 | 518.9 | 522.7  | 544.4  | 573.1  | 582.9  | 613.2  | 639.3  | 625.7  |
| 25°   | 534.1 | 525.9 | 526.5 | 518.9 | 520.5  | 531.4  | 554.1  | 568.8  | 603.5  | 643.0  | 620.8  |
| 27.5° | 540.6 | 544.4 | 536.8 | 533.5 | 524.3  | 523.8  | 542.7  | 555.2  | 598.6  | 651.7  | 624.1  |
| 30°   | 555.2 | 557.9 | 557.9 | 555.8 | 547.1  | 534.6  | 538.9  | 554.7  | 588.8  | 650.1  | 618.6  |
| 32.5° | 579.6 | 574.7 | 581.2 | 578.0 | 566.6  | 547.1  | 550.9  | 559.0  | 594.8  | 670.7  | 627.3  |
| 35°   | 587.7 | 591.5 | 600.2 | 593.2 | 589.4  | 578.0  | 570.4  | 576.4  | 603.5  | 691.3  | 640.3  |
| 37.5° | 612.7 | 607.3 | 613.2 | 628.9 | 632.7  | 612.1  | 597.5  | 606.2  | 636.0  | 715.7  | 652.3  |
| 40°   | 614.9 | 619.2 | 630.0 | 660.9 | 664.7  | 656.1  | 644.1  | 646.3  | 668.5  | 747.1  | 682.1  |
| 42.5° | 625.7 | 630.6 | 652.8 | 678.8 | 699.4  | 701.1  | 692.4  | 692.4  | 711.4  | 797.6  | 715.2  |
| 45°   | 646.8 | 638.7 | 667.4 | 711.4 | 741.2  | 747.1  | 758.5  | 755.8  | 771.0  | 850.7  | 777.0  |
| 47.5° | 655.0 | 657.7 | 689.1 | 742.3 | 776.4  | 804.1  | 823.1  | 823.6  | 831.2  | 918.5  | 857.2  |
| 50°   | 681.5 | 681.0 | 719.0 | 768.3 | 818.7  | 869.1  | 906.0  | 906.0  | 905.5  | 984.6  | 926.1  |
| 52.5° | 716.8 | 715.7 | 745.0 | 803.5 | 869.1  | 932.6  | 981.4  | 983.0  | 995.5  | 1066.0 | 1005.2 |
| 55°   | 774.3 | 769.4 | 797.6 | 840.9 | 919.6  | 996.6  | 1081.1 | 1081.7 | 1071.9 | 1124.0 | 1062.2 |
| 57.5° | 822.5 | 822.0 | 845.3 | 887.0 | 976.0  | 1079.0 | 1177.1 | 1191.8 | 1160.8 | 1183.6 | 1107.7 |
| 60°   | 810.0 | 817.1 | 865.3 | 927.2 | 1035.6 | 1182.0 | 1280.7 | 1303.4 | 1254.1 | 1224.3 | 1141.9 |
| 62.5° | 732.5 | 748.8 | 801.4 | 900.0 | 1086.0 | 1331.6 | 1423.3 | 1413.0 | 1302.9 | 1259.0 | 1183.6 |
| 65°   | 527.0 | 543.3 | 608.3 | 756.4 | 1027.5 | 1437.4 | 1610.9 | 1564.2 | 1389.7 | 1310.5 | 1239.5 |
| 67.5° | 310.1 | 316.6 | 357.3 | 482.6 | 768.3  | 1379.9 | 1838.6 | 1842.4 | 1560.4 | 1389.7 | 1336.0 |
| 70°   | 223.9 | 228.8 | 244.5 | 284.7 | 425.6  | 1081.7 | 1965.5 | 2064.1 | 1797.4 | 1480.7 | 1285.0 |
| 72.5° | 171.9 | 171.9 | 198.4 | 236.9 | 271.1  | 647.9  | 1808.8 | 2006.7 | 1848.9 | 1393.4 | 1035.6 |
| 75°   | 123.6 | 126.9 | 155.6 | 203.9 | 250.0  | 325.3  | 1332.7 | 1592.4 | 1567.0 | 1129.4 | 723.3  |
| 77.5° | 71.0  | 72.7  | 109.5 | 170.8 | 234.8  | 223.4  | 823.6  | 1079.5 | 1109.9 | 707.0  | 313.4  |
| 80°   | 36.3  | 37.4  | 61.3  | 135.0 | 212.5  | 194.6  | 491.2  | 710.8  | 602.9  | 205.5  | 72.7   |
| 82.5° | 17.9  | 17.9  | 27.7  | 86.2  | 180.6  | 172.4  | 289.0  | 392.6  | 213.6  | 47.2   | 30.4   |
| 85°   | 6.0   | 6.5   | 12.5  | 48.8  | 130.7  | 104.1  | 176.8  | 186.5  | 71.6   | 17.9   | 16.8   |
| 87.5° | 1.6   | 2.2   | 3.3   | 17.9  | 56.9   | 68.3   | 105.2  | 119.3  | 29.3   | 7.0    | 8.1    |
| 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°    | 717.9  | 717.9 | 717.9 | 717.9 | 717.9 | 717.9 | 717.9 | 717.9 | 717.9 | 717.9 | 717.9 |
| 2.5°  | 706.5  | 702.7 | 698.4 | 687.5 | 678.8 | 667.4 | 659.9 | 653.9 | 642.5 | 644.7 | 639.8 |
| 5°    | 699.4  | 692.4 | 667.4 | 643.6 | 621.9 | 588.8 | 566.1 | 551.4 | 539.5 | 527.6 | 536.2 |
| 7.5°  | 687.0  | 670.2 | 631.1 | 586.7 | 540.6 | 497.2 | 453.8 | 427.8 | 408.8 | 391.5 | 390.9 |
| 10°   | 665.8  | 638.7 | 577.4 | 519.4 | 448.4 | 391.5 | 336.2 | 292.8 | 264.6 | 244.0 | 243.4 |
| 12.5° | 642.0  | 613.8 | 536.8 | 442.4 | 360.6 | 280.3 | 214.2 | 168.1 | 141.5 | 125.2 | 123.1 |
| 15°   | 626.8  | 585.6 | 485.8 | 374.1 | 272.7 | 182.7 | 118.7 | 90.0  | 79.7  | 75.9  | 75.9  |
| 17.5° | 607.3  | 560.1 | 435.4 | 303.1 | 189.2 | 105.7 | 77.0  | 69.4  | 68.9  | 67.8  | 66.7  |
| 20°   | 599.1  | 540.6 | 390.4 | 241.8 | 119.8 | 74.8  | 66.1  | 64.5  | 64.5  | 63.4  | 62.4  |
| 22.5° | 577.4  | 512.4 | 342.7 | 177.3 | 79.7  | 65.6  | 62.4  | 60.2  | 59.1  | 58.0  | 59.1  |
| 25°   | 567.7  | 492.3 | 297.7 | 122.5 | 65.1  | 58.6  | 56.9  | 54.8  | 53.1  | 52.6  | 52.6  |
| 27.5° | 561.2  | 472.3 | 253.7 | 85.1  | 57.5  | 53.7  | 50.4  | 48.8  | 46.6  | 44.5  | 44.5  |
| 30°   | 556.3  | 456.5 | 211.5 | 62.9  | 51.5  | 47.7  | 45.0  | 41.2  | 38.5  | 36.3  | 36.3  |
| 32.5° | 549.8  | 438.1 | 169.2 | 53.7  | 46.6  | 42.8  | 38.0  | 34.7  | 30.9  | 29.3  | 29.3  |
| 35°   | 552.0  | 425.6 | 132.8 | 47.7  | 41.7  | 36.9  | 32.5  | 28.2  | 24.4  | 22.8  | 22.2  |
| 37.5° | 556.3  | 416.4 | 100.8 | 42.8  | 37.4  | 32.0  | 27.1  | 22.2  | 20.1  | 17.9  | 17.9  |
| 40°   | 574.7  | 413.7 | 74.3  | 39.6  | 34.2  | 28.2  | 22.8  | 18.4  | 16.3  | 14.6  | 14.1  |
| 42.5° | 605.6  | 417.5 | 57.5  | 35.8  | 30.9  | 23.9  | 19.0  | 15.2  | 13.0  | 11.4  | 10.8  |
| 45°   | 645.2  | 432.1 | 47.2  | 33.6  | 27.1  | 20.1  | 15.2  | 12.5  | 9.8   | 8.7   | 8.7   |
| 47.5° | 702.7  | 454.9 | 41.2  | 30.9  | 23.9  | 16.8  | 13.0  | 9.8   | 7.6   | 6.5   | 6.5   |
| 50°   | 767.8  | 480.9 | 36.3  | 27.7  | 20.6  | 14.1  | 10.3  | 7.6   | 5.4   | 4.9   | 4.9   |
| 52.5° | 832.8  | 514.0 | 33.6  | 25.5  | 17.9  | 11.4  | 8.1   | 5.4   | 3.8   | 3.3   | 3.3   |
| 55°   | 901.1  | 543.3 | 30.4  | 23.9  | 14.6  | 9.2   | 6.0   | 3.3   | 2.2   | 1.6   | 1.6   |
| 57.5° | 948.8  | 554.7 | 26.6  | 20.6  | 11.4  | 7.0   | 4.3   | 2.2   | 1.1   | 0.5   | 0.5   |
| 60°   | 983.0  | 556.3 | 22.8  | 16.8  | 8.7   | 5.4   | 2.7   | 1.1   | 0.5   | 0.0   | 0.0   |
| 62.5° | 1011.7 | 559.5 | 19.5  | 13.0  | 6.5   | 3.8   | 1.6   | 0.5   | 0.0   | 0.0   | 0.0   |
| 65°   | 1068.7 | 556.8 | 15.7  | 10.3  | 4.3   | 2.2   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 1113.7 | 529.7 | 12.5  | 7.0   | 2.7   | 1.1   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 985.2  | 403.9 | 9.8   | 4.9   | 1.6   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 773.7  | 269.5 | 6.5   | 2.7   | 1.1   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 507.5  | 133.9 | 4.9   | 1.6   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 197.4  | 35.2  | 3.3   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 47.7   | 11.9  | 1.6   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 20.6   | 4.3   | 1.1   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 12.5   | 2.2   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 6.5    | 1.1   | 0.5   | 0.5   | 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)