

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: P676423

Luminaire Tested: **CCW-SA-1F-740-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676423  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-740-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

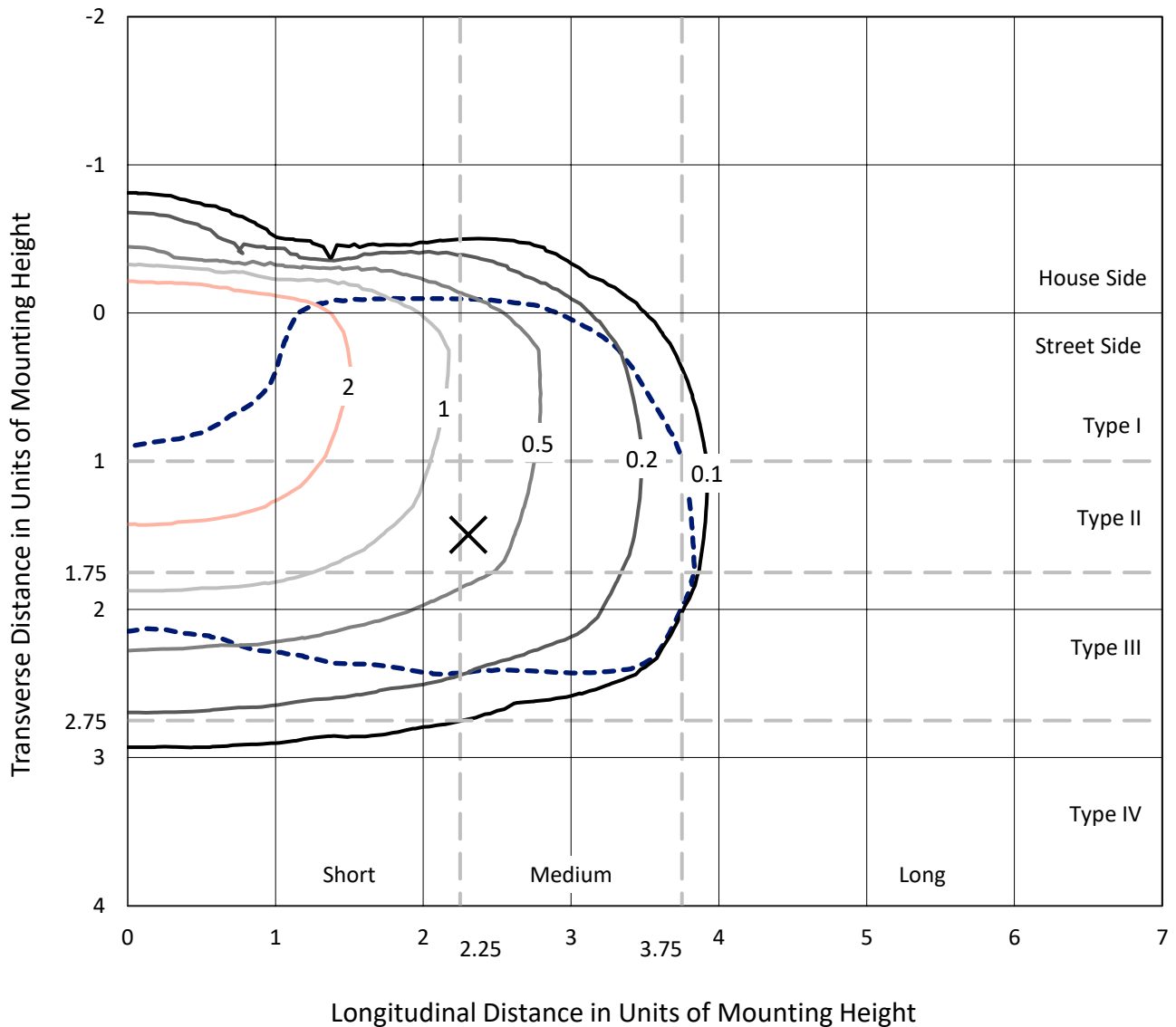
Lumens per Lamp: N/A  
Luminaire Lumens: 5401.4 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

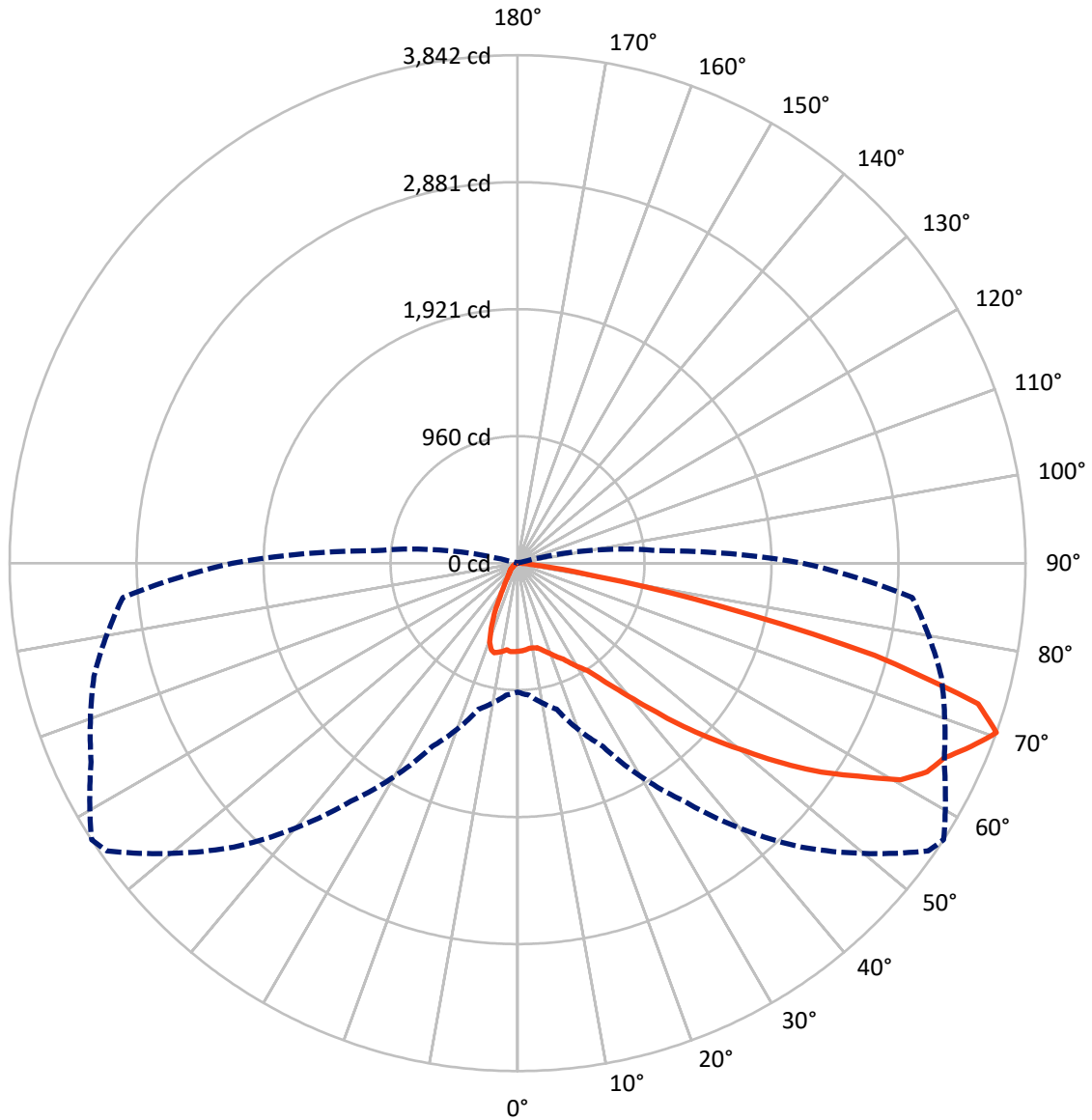
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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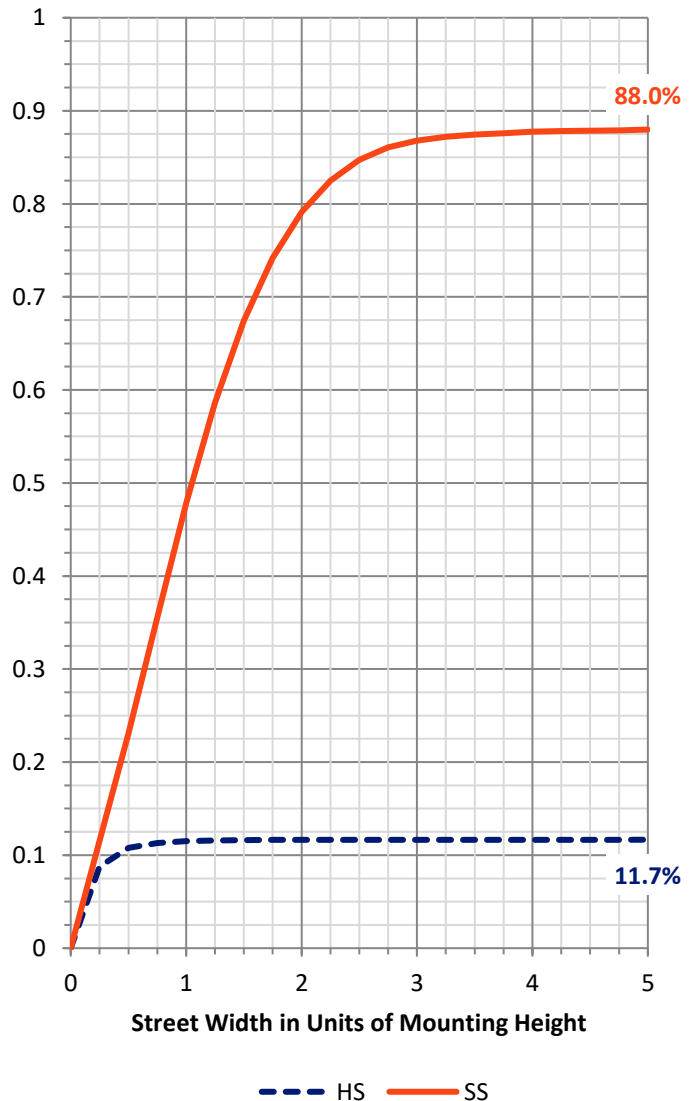
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 636.7    | 0.0    | 636.7  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 4764.7   | 0.0    | 4764.7 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 5401.4   | 0.0    | 5401.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.3   | 1.2       |
| 10°-20°   | 174.1  | 3.2       |
| 20°-30°   | 293.3  | 5.4       |
| 30°-40°   | 502.0  | 9.3       |
| 40°-50°   | 842.9  | 15.6      |
| 50°-60°   | 1293.8 | 24.0      |
| 60°-70°   | 1493.8 | 27.7      |
| 70°-80°   | 705.6  | 13.1      |
| 80°-90°   | 33.5   | 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°    | 5401.4 | 100.0     |
| 0°-180°   | 5401.4 | 100.0     |



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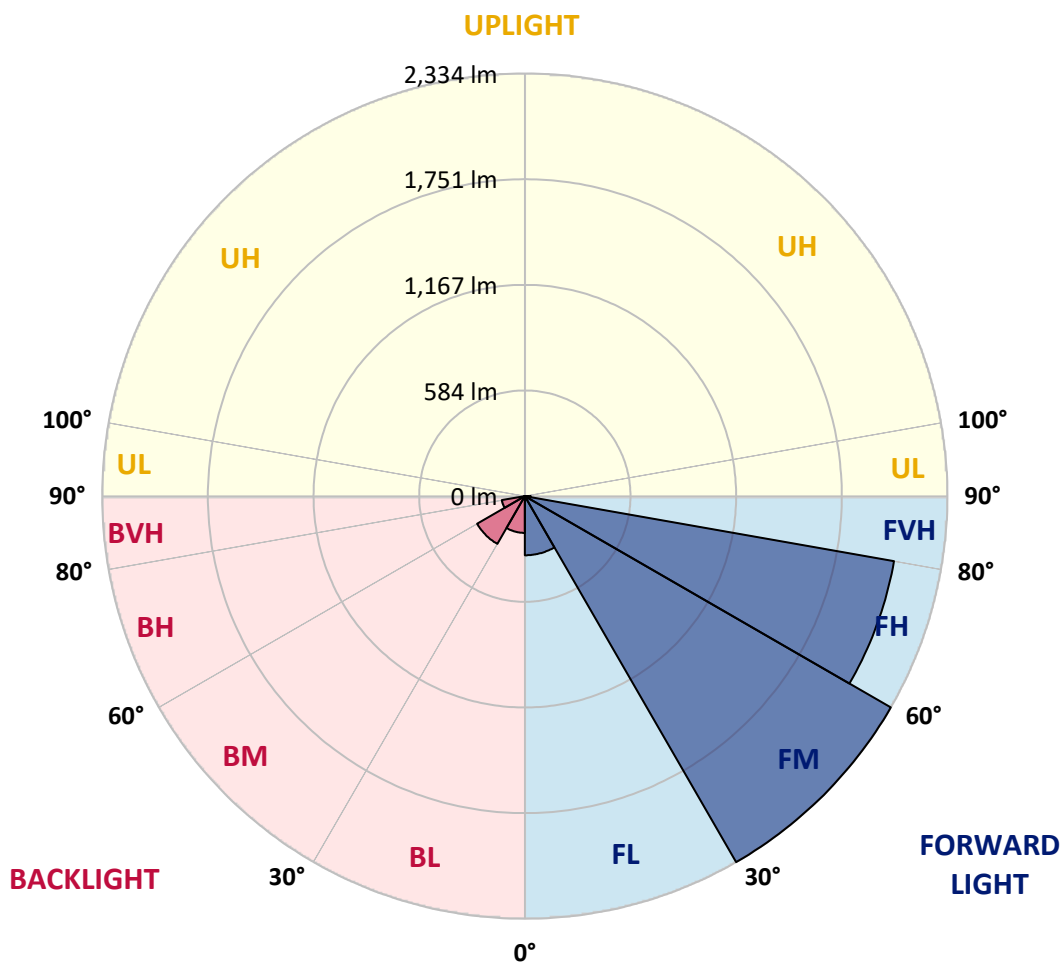
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 326.8  | 6.0       |                         |      |         |
| FM (30°-60°)   | 2334.4 | 43.2      |                         |      |         |
| FH (60°-80°)   | 2070.7 | 38.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 32.9   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 203.0  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 304.3  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 128.8  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.6    | 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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  | 666.5  |
| 2.5°  | 656.8  | 652.7  | 656.8  | 662.3  | 656.8  | 660.9  | 659.6  | 663.7  | 658.2  | 658.2  | 662.3  |
| 5°    | 614.0  | 620.9  | 623.7  | 630.6  | 637.5  | 649.9  | 658.2  | 658.2  | 666.5  | 670.6  | 676.1  |
| 7.5°  | 598.9  | 587.8  | 598.9  | 604.4  | 611.3  | 632.0  | 644.4  | 649.9  | 660.9  | 676.1  | 684.4  |
| 10°   | 576.8  | 585.1  | 585.1  | 603.0  | 612.6  | 625.1  | 647.1  | 651.3  | 676.1  | 691.3  | 699.6  |
| 12.5° | 575.4  | 575.4  | 582.3  | 594.7  | 614.0  | 637.5  | 665.1  | 656.8  | 683.0  | 710.6  | 724.4  |
| 15°   | 579.5  | 589.2  | 589.2  | 605.8  | 620.9  | 654.0  | 677.5  | 678.9  | 716.1  | 743.7  | 756.2  |
| 17.5° | 597.5  | 593.3  | 598.9  | 608.5  | 632.0  | 663.7  | 702.3  | 706.5  | 749.3  | 786.5  | 804.4  |
| 20°   | 634.7  | 641.6  | 633.3  | 627.8  | 637.5  | 678.9  | 728.6  | 736.8  | 785.1  | 821.0  | 838.9  |
| 22.5° | 774.1  | 768.6  | 735.5  | 696.8  | 680.3  | 699.6  | 753.4  | 772.7  | 829.3  | 872.1  | 887.2  |
| 25°   | 931.4  | 921.7  | 883.1  | 825.1  | 749.3  | 741.0  | 803.1  | 803.1  | 884.5  | 931.4  | 927.3  |
| 27.5° | 1080.4 | 1077.7 | 1032.1 | 971.4  | 863.8  | 804.4  | 843.1  | 858.3  | 946.6  | 985.2  | 967.3  |
| 30°   | 1232.2 | 1235.0 | 1193.6 | 1120.4 | 1007.3 | 906.6  | 899.7  | 912.1  | 993.5  | 1054.2 | 1016.9 |
| 32.5° | 1408.8 | 1384.0 | 1355.0 | 1254.3 | 1150.8 | 1037.6 | 972.8  | 967.3  | 1045.9 | 1101.1 | 1051.4 |
| 35°   | 1566.1 | 1550.9 | 1519.2 | 1428.1 | 1309.5 | 1174.2 | 1083.2 | 1069.4 | 1112.2 | 1185.3 | 1131.5 |
| 37.5° | 1704.1 | 1688.9 | 1647.5 | 1586.8 | 1494.4 | 1344.0 | 1215.6 | 1194.9 | 1212.9 | 1290.2 | 1225.3 |
| 40°   | 1822.8 | 1826.9 | 1815.9 | 1756.5 | 1671.0 | 1534.4 | 1386.7 | 1353.6 | 1338.4 | 1407.4 | 1334.3 |
| 42.5° | 1908.3 | 1948.3 | 1951.1 | 1878.0 | 1809.0 | 1734.5 | 1568.9 | 1542.7 | 1506.8 | 1564.7 | 1513.7 |
| 45°   | 2087.7 | 2065.6 | 2079.4 | 2053.2 | 1977.3 | 1966.3 | 1778.6 | 1763.4 | 1713.8 | 1733.1 | 1679.3 |
| 47.5° | 2228.4 | 2224.3 | 2250.5 | 2207.7 | 2187.0 | 2188.4 | 2017.3 | 1991.1 | 1920.7 | 1956.6 | 1895.9 |
| 50°   | 2309.9 | 2287.8 | 2383.0 | 2416.1 | 2412.0 | 2428.5 | 2258.8 | 2236.7 | 2169.1 | 2221.5 | 2091.8 |
| 52.5° | 2329.2 | 2369.2 | 2458.9 | 2578.9 | 2630.0 | 2664.5 | 2522.4 | 2514.1 | 2440.9 | 2474.1 | 2294.7 |
| 55°   | 2377.5 | 2416.1 | 2468.5 | 2665.9 | 2854.9 | 2863.2 | 2781.8 | 2790.0 | 2725.2 | 2716.9 | 2487.9 |
| 57.5° | 2376.1 | 2367.8 | 2512.7 | 2741.7 | 3003.9 | 3122.6 | 3078.4 | 3038.4 | 2968.0 | 2886.6 | 2612.0 |
| 60°   | 2289.2 | 2285.0 | 2435.4 | 2751.4 | 3085.3 | 3357.2 | 3375.1 | 3328.2 | 3151.6 | 3031.5 | 2758.3 |
| 62.5° | 2116.7 | 2133.2 | 2285.0 | 2668.6 | 3162.6 | 3441.3 | 3507.6 | 3475.8 | 3256.4 | 3128.1 | 2930.8 |
| 65°   | 1919.4 | 1884.9 | 2061.5 | 2461.6 | 2988.7 | 3416.5 | 3560.0 | 3549.0 | 3380.6 | 3233.0 | 3089.5 |
| 67.5° | 1539.9 | 1555.1 | 1690.3 | 2118.1 | 2692.1 | 3325.4 | 3682.8 | 3699.4 | 3480.0 | 3325.4 | 3137.8 |
| 70°   | 975.5  | 1003.1 | 1143.9 | 1530.2 | 2198.1 | 3038.4 | 3793.2 | 3841.5 | 3558.6 | 3317.1 | 2997.0 |
| 72.5° | 284.2  | 295.3  | 487.1  | 763.1  | 1400.5 | 2436.8 | 3616.6 | 3641.4 | 3405.5 | 3010.8 | 2318.1 |
| 75°   | 93.8   | 99.3   | 143.5  | 248.4  | 549.2  | 1259.8 | 2671.4 | 2788.7 | 2710.0 | 2182.9 | 1326.0 |
| 77.5° | 62.1   | 64.9   | 78.7   | 118.7  | 208.4  | 394.6  | 1432.3 | 1557.8 | 1527.5 | 1022.5 | 427.8  |
| 80°   | 45.5   | 46.9   | 58.0   | 80.0   | 126.9  | 142.1  | 528.5  | 611.3  | 590.6  | 234.6  | 85.6   |
| 82.5° | 29.0   | 29.0   | 42.8   | 56.6   | 80.0   | 70.4   | 153.2  | 169.7  | 165.6  | 89.7   | 33.1   |
| 85°   | 19.3   | 20.7   | 31.7   | 44.2   | 44.2   | 33.1   | 44.2   | 51.1   | 55.2   | 48.3   | 15.2   |
| 87.5° | 5.5    | 6.9    | 17.9   | 30.4   | 17.9   | 16.6   | 15.2   | 16.6   | 19.3   | 26.2   | 8.3    |
| 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°    | 666.5  | 666.5  | 666.5 | 666.5 | 666.5 | 666.5 | 666.5 | 666.5 | 666.5 | 666.5 | 666.5 |
| 2.5°  | 666.5  | 672.0  | 670.6 | 673.4 | 669.2 | 665.1 | 669.2 | 669.2 | 669.2 | 665.1 | 662.3 |
| 5°    | 672.0  | 669.2  | 672.0 | 666.5 | 672.0 | 666.5 | 663.7 | 655.4 | 654.0 | 654.0 | 659.6 |
| 7.5°  | 680.3  | 683.0  | 670.6 | 670.6 | 658.2 | 660.9 | 654.0 | 655.4 | 652.7 | 648.5 | 645.8 |
| 10°   | 692.7  | 703.7  | 691.3 | 687.2 | 673.4 | 662.3 | 645.8 | 637.5 | 637.5 | 632.0 | 637.5 |
| 12.5° | 727.2  | 723.0  | 716.1 | 702.3 | 685.8 | 663.7 | 623.7 | 583.7 | 550.6 | 525.7 | 538.1 |
| 15°   | 754.8  | 753.4  | 743.7 | 717.5 | 695.4 | 627.8 | 527.1 | 423.6 | 368.4 | 343.6 | 339.4 |
| 17.5° | 797.5  | 793.4  | 776.9 | 742.4 | 669.2 | 520.2 | 361.5 | 274.6 | 220.8 | 208.4 | 204.2 |
| 20°   | 837.6  | 836.2  | 800.3 | 756.2 | 603.0 | 379.5 | 236.0 | 180.8 | 165.6 | 167.0 | 164.2 |
| 22.5° | 880.3  | 873.4  | 830.7 | 739.6 | 480.2 | 252.5 | 168.3 | 161.4 | 155.9 | 154.5 | 157.3 |
| 25°   | 928.6  | 903.8  | 861.0 | 702.3 | 353.2 | 173.9 | 158.7 | 153.2 | 147.6 | 146.3 | 146.3 |
| 27.5° | 948.0  | 931.4  | 874.8 | 612.6 | 223.5 | 151.8 | 149.0 | 142.1 | 135.2 | 131.1 | 129.7 |
| 30°   | 992.1  | 964.5  | 888.6 | 481.6 | 158.7 | 139.4 | 135.2 | 126.9 | 117.3 | 110.4 | 110.4 |
| 32.5° | 1036.3 | 1003.1 | 890.0 | 336.7 | 132.5 | 125.6 | 118.7 | 107.6 | 95.2  | 88.3  | 89.7  |
| 35°   | 1091.5 | 1045.9 | 874.8 | 218.0 | 118.7 | 110.4 | 96.6  | 84.2  | 73.1  | 67.6  | 67.6  |
| 37.5° | 1185.3 | 1142.5 | 812.7 | 143.5 | 107.6 | 93.8  | 80.0  | 66.2  | 56.6  | 52.4  | 52.4  |
| 40°   | 1304.0 | 1248.8 | 727.2 | 113.1 | 95.2  | 80.0  | 63.5  | 51.1  | 45.5  | 41.4  | 41.4  |
| 42.5° | 1446.1 | 1377.1 | 600.2 | 100.7 | 84.2  | 66.2  | 49.7  | 40.0  | 34.5  | 34.5  | 33.1  |
| 45°   | 1588.2 | 1475.1 | 470.5 | 92.4  | 74.5  | 55.2  | 38.6  | 31.7  | 29.0  | 27.6  | 27.6  |
| 47.5° | 1791.0 | 1593.7 | 336.7 | 84.2  | 64.9  | 42.8  | 31.7  | 26.2  | 23.5  | 22.1  | 23.5  |
| 50°   | 1985.6 | 1705.5 | 238.7 | 75.9  | 53.8  | 34.5  | 26.2  | 23.5  | 20.7  | 19.3  | 19.3  |
| 52.5° | 2156.7 | 1782.8 | 167.0 | 66.2  | 45.5  | 29.0  | 23.5  | 20.7  | 19.3  | 17.9  | 17.9  |
| 55°   | 2250.5 | 1756.5 | 114.5 | 56.6  | 37.3  | 24.8  | 20.7  | 17.9  | 16.6  | 15.2  | 15.2  |
| 57.5° | 2347.1 | 1683.4 | 86.9  | 46.9  | 30.4  | 23.5  | 19.3  | 16.6  | 15.2  | 13.8  | 13.8  |
| 60°   | 2428.5 | 1629.6 | 67.6  | 37.3  | 24.8  | 19.3  | 16.6  | 13.8  | 12.4  | 11.0  | 9.7   |
| 62.5° | 2432.7 | 1522.0 | 49.7  | 27.6  | 19.3  | 16.6  | 13.8  | 11.0  | 6.9   | 5.5   | 4.1   |
| 65°   | 2449.2 | 1408.8 | 35.9  | 20.7  | 13.8  | 12.4  | 9.7   | 5.5   | 2.8   | 0.0   | 0.0   |
| 67.5° | 2391.3 | 1275.0 | 29.0  | 15.2  | 9.7   | 6.9   | 4.1   | 1.4   | 0.0   | 0.0   | 0.0   |
| 70°   | 2155.3 | 1076.3 | 22.1  | 11.0  | 6.9   | 4.1   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1542.7 | 699.6  | 15.2  | 8.3   | 2.8   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 822.4  | 298.0  | 11.0  | 5.5   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 258.0  | 75.9   | 6.9   | 2.8   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 56.6   | 20.7   | 4.1   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 19.3   | 8.3    | 2.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.9    | 2.8    | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.8    | 1.4    | 1.4   | 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)