

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: P672137

Luminaire Tested: **CCP-SA-1F-760-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672137  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-760-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T2R distribution lens  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

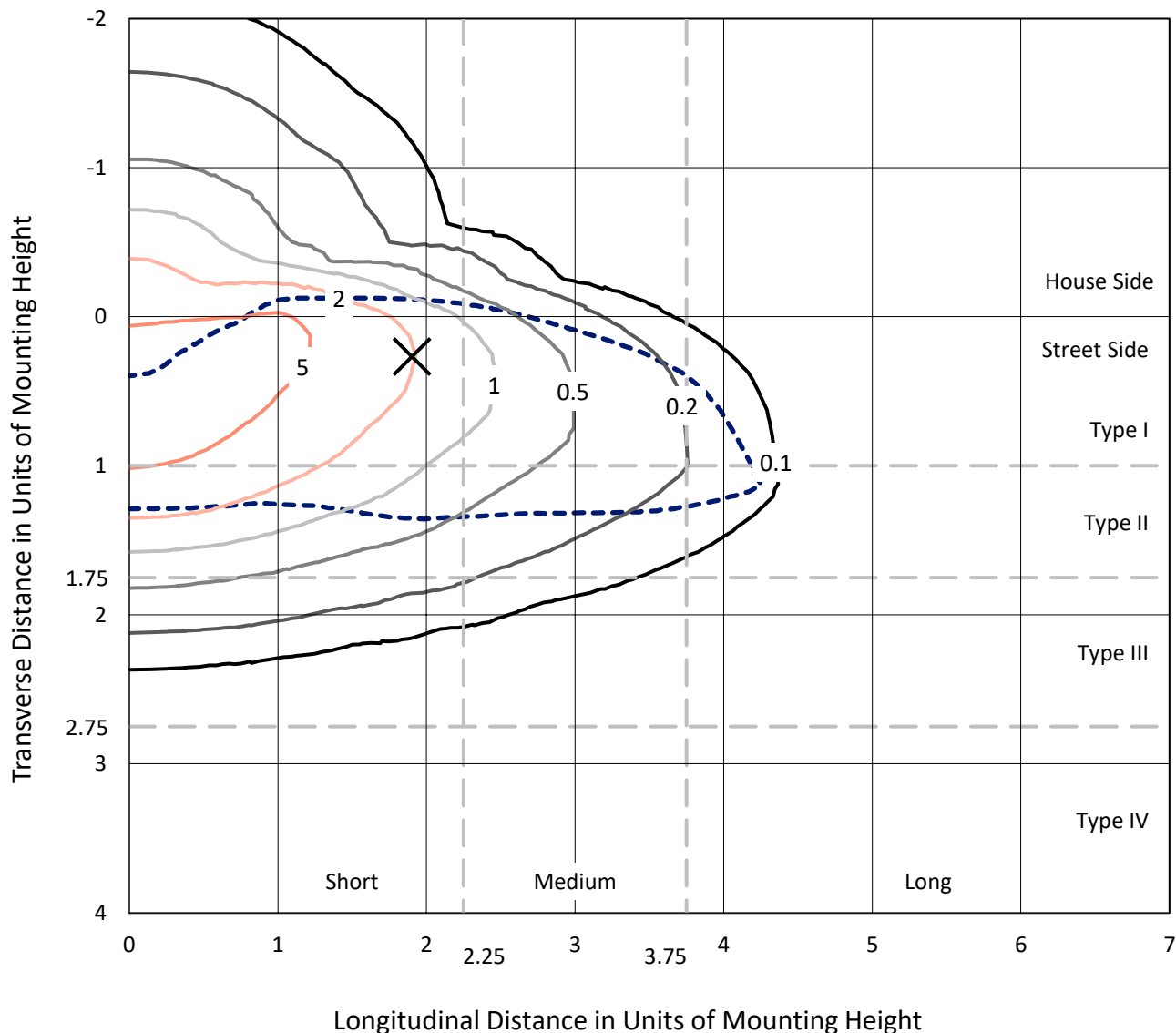
Lumens per Lamp: N/A  
Luminaire Lumens: 7790.3 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

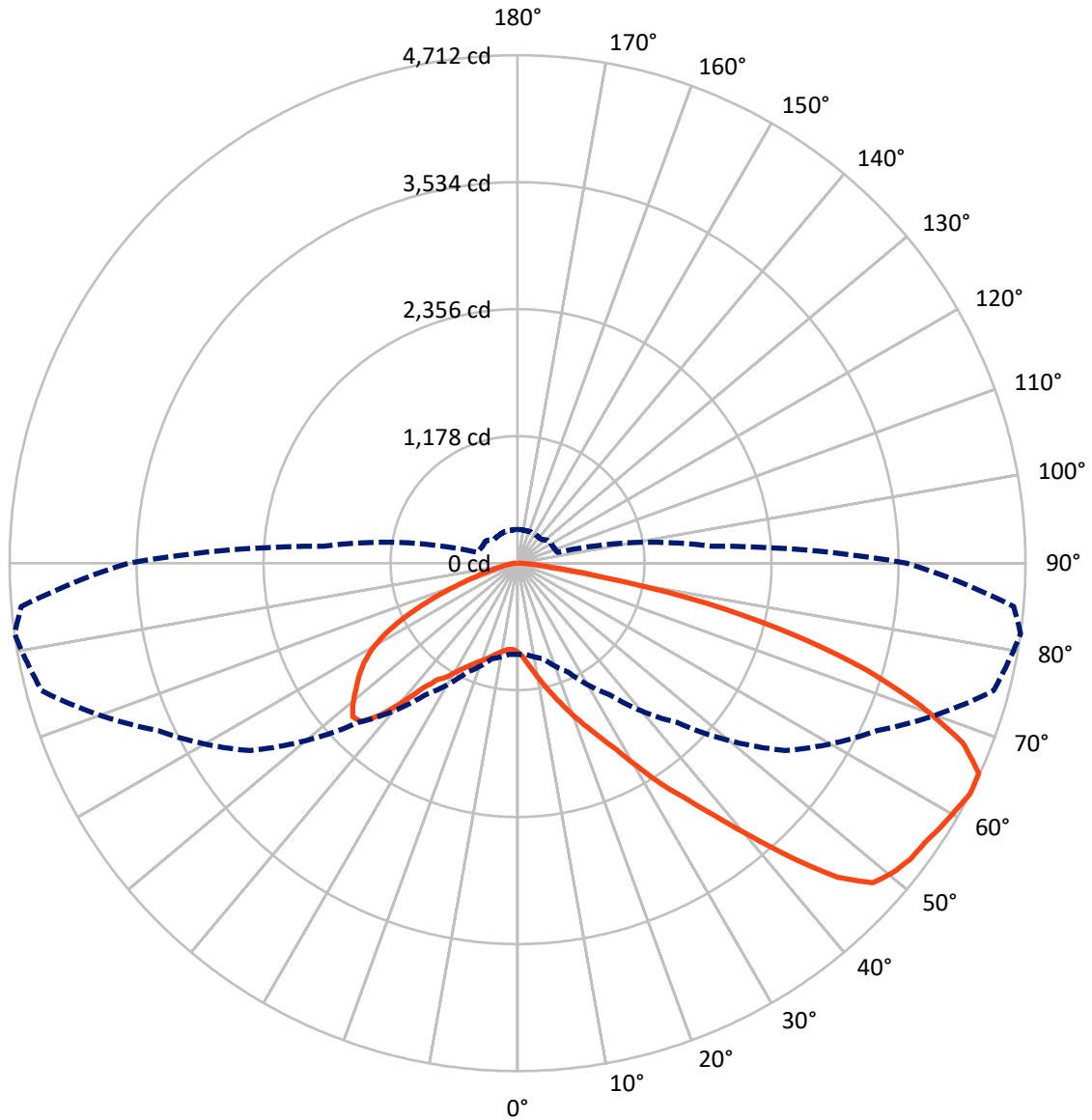
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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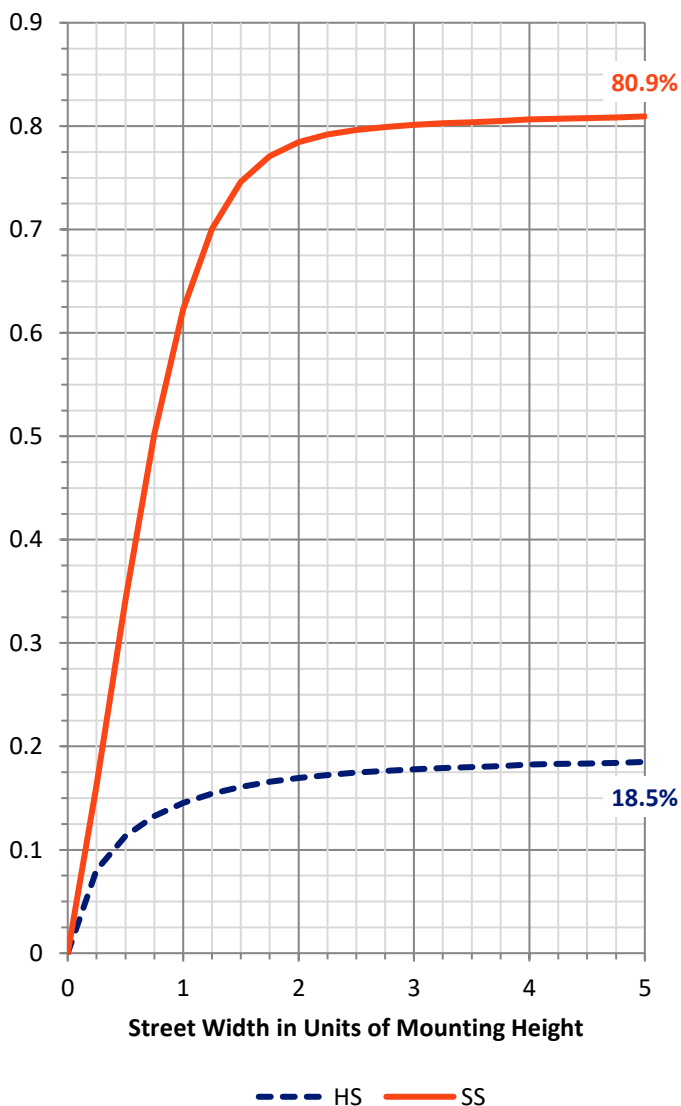
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1467.7   | 0.0    | 1467.7 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 6322.6   | 0.0    | 6322.6 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 7790.3   | 0.0    | 7790.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.7   | 1.2       |
| 10°-20°   | 345.8  | 4.4       |
| 20°-30°   | 716.1  | 9.2       |
| 30°-40°   | 1215.4 | 15.6      |
| 40°-50°   | 1655.1 | 21.2      |
| 50°-60°   | 1675.3 | 21.5      |
| 60°-70°   | 1320.3 | 16.9      |
| 70°-80°   | 650.4  | 8.3       |
| 80°-90°   | 120.3  | 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°    | 7790.3 | 100.0     |
| 0°-180°   | 7790.3 | 100.0     |



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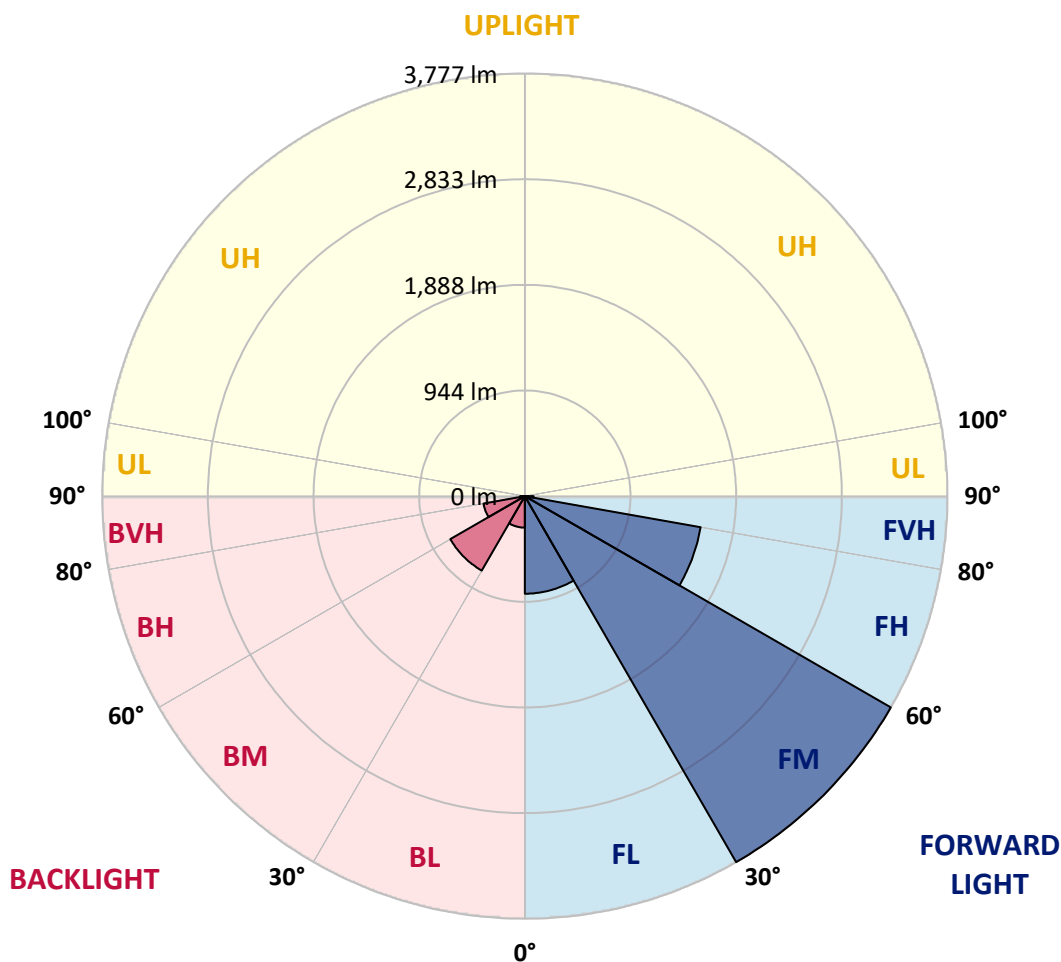
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 871.9  | 11.2      |                         |      |         |
| FM (30°-60°)   | 3777.0 | 48.5      |                         |      |         |
| FH (60°-80°)   | 1595.6 | 20.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 78.2   | 1.0       |                         |      | G1/100  |
| BL (0°-30°)    | 281.6  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 768.7  | 9.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 375.2  | 4.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 42.1   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  | 828.4  |
| 2.5°  | 1103.3 | 1086.5 | 1077.5 | 1067.4 | 1039.3 | 1021.4 | 987.7  | 948.5  | 903.0  | 864.3  | 857.0  |
| 5°    | 1336.1 | 1319.2 | 1321.5 | 1296.8 | 1255.8 | 1217.7 | 1154.9 | 1080.8 | 994.5  | 928.3  | 905.3  |
| 7.5°  | 1500.4 | 1481.9 | 1486.4 | 1476.3 | 1443.2 | 1401.1 | 1321.5 | 1226.1 | 1099.9 | 1001.8 | 964.7  |
| 10°   | 1610.3 | 1612.6 | 1615.9 | 1612.0 | 1590.7 | 1561.0 | 1481.9 | 1376.4 | 1219.4 | 1088.7 | 1038.2 |
| 12.5° | 1734.8 | 1741.0 | 1739.9 | 1741.6 | 1730.4 | 1706.8 | 1629.4 | 1530.1 | 1346.7 | 1182.4 | 1116.7 |
| 15°   | 1893.6 | 1887.4 | 1892.5 | 1899.8 | 1887.4 | 1861.6 | 1793.2 | 1675.4 | 1480.2 | 1286.7 | 1205.4 |
| 17.5° | 2067.5 | 2054.6 | 2068.0 | 2060.7 | 2051.8 | 2034.9 | 1959.8 | 1834.1 | 1618.2 | 1399.4 | 1304.1 |
| 20°   | 2217.8 | 2209.4 | 2216.7 | 2217.8 | 2219.5 | 2216.1 | 2138.7 | 2005.2 | 1762.9 | 1522.3 | 1410.7 |
| 22.5° | 2386.6 | 2382.7 | 2381.6 | 2382.1 | 2383.8 | 2387.7 | 2335.0 | 2192.5 | 1923.3 | 1651.3 | 1525.6 |
| 25°   | 2622.7 | 2618.8 | 2593.0 | 2564.4 | 2547.6 | 2559.9 | 2532.4 | 2405.1 | 2100.6 | 1796.0 | 1651.8 |
| 27.5° | 2887.5 | 2881.3 | 2847.1 | 2774.7 | 2720.9 | 2729.9 | 2727.1 | 2639.6 | 2304.7 | 1962.0 | 1803.3 |
| 30°   | 3162.3 | 3147.2 | 3100.1 | 2998.5 | 2913.8 | 2898.1 | 2906.0 | 2876.8 | 2561.6 | 2182.4 | 2014.2 |
| 32.5° | 3407.4 | 3379.4 | 3317.1 | 3214.5 | 3113.5 | 3068.1 | 3069.2 | 3082.1 | 2840.9 | 2439.3 | 2235.2 |
| 35°   | 3557.2 | 3538.7 | 3492.1 | 3388.4 | 3275.6 | 3245.3 | 3236.9 | 3301.4 | 3097.3 | 2677.2 | 2433.2 |
| 37.5° | 3638.0 | 3620.0 | 3570.1 | 3486.5 | 3401.3 | 3388.9 | 3404.6 | 3504.5 | 3388.4 | 2973.9 | 2702.4 |
| 40°   | 3623.4 | 3604.3 | 3571.8 | 3513.4 | 3457.4 | 3466.9 | 3536.4 | 3690.7 | 3706.4 | 3328.9 | 3086.0 |
| 42.5° | 3503.3 | 3483.2 | 3480.4 | 3476.4 | 3450.1 | 3492.1 | 3617.8 | 3827.0 | 3998.6 | 3738.9 | 3550.5 |
| 45°   | 3291.3 | 3279.0 | 3293.6 | 3360.9 | 3394.0 | 3475.3 | 3655.9 | 3893.2 | 4255.5 | 4155.7 | 3989.6 |
| 47.5° | 3022.7 | 3015.4 | 3048.5 | 3155.0 | 3262.2 | 3423.7 | 3681.2 | 3911.1 | 4432.2 | 4432.2 | 4277.4 |
| 50°   | 2722.0 | 2719.2 | 2763.0 | 2917.8 | 3085.5 | 3328.9 | 3678.3 | 3927.9 | 4509.6 | 4513.5 | 4378.9 |
| 52.5° | 2302.5 | 2317.1 | 2433.7 | 2637.9 | 2865.6 | 3180.3 | 3639.1 | 3975.1 | 4553.3 | 4562.3 | 4446.8 |
| 55°   | 1819.0 | 1833.0 | 2009.1 | 2284.0 | 2575.6 | 2999.7 | 3521.9 | 3961.0 | 4561.8 | 4582.0 | 4485.5 |
| 57.5° | 1452.2 | 1455.0 | 1564.9 | 1891.3 | 2252.6 | 2768.6 | 3386.7 | 3867.9 | 4537.1 | 4625.1 | 4544.9 |
| 60°   | 1136.4 | 1145.3 | 1218.8 | 1477.4 | 1877.9 | 2470.7 | 3235.8 | 3775.9 | 4551.1 | 4666.1 | 4598.8 |
| 62.5° | 846.4  | 848.6  | 917.1  | 1117.3 | 1492.0 | 2091.0 | 3031.1 | 3677.8 | 4570.7 | 4712.1 | 4620.7 |
| 65°   | 551.4  | 550.8  | 617.0  | 797.6  | 1114.5 | 1681.0 | 2709.7 | 3524.1 | 4572.4 | 4702.0 | 4520.3 |
| 67.5° | 350.6  | 352.8  | 381.4  | 495.3  | 746.0  | 1268.7 | 2272.2 | 3238.6 | 4492.8 | 4457.4 | 4154.5 |
| 70°   | 284.4  | 284.9  | 293.9  | 323.6  | 454.3  | 867.1  | 1707.9 | 2792.1 | 4240.9 | 3970.0 | 3611.0 |
| 72.5° | 253.5  | 254.1  | 258.6  | 261.9  | 302.9  | 521.1  | 1120.7 | 2267.1 | 3793.3 | 3383.9 | 2995.7 |
| 75°   | 227.7  | 227.7  | 230.5  | 227.2  | 248.5  | 327.0  | 636.1  | 1704.6 | 3124.2 | 2635.1 | 2263.2 |
| 77.5° | 199.7  | 199.1  | 199.1  | 197.4  | 214.8  | 238.9  | 318.6  | 1189.7 | 2250.3 | 1797.1 | 1467.9 |
| 80°   | 169.4  | 168.3  | 170.0  | 168.8  | 185.7  | 181.2  | 185.7  | 734.2  | 1219.9 | 824.0  | 624.8  |
| 82.5° | 131.8  | 131.8  | 136.9  | 138.0  | 153.1  | 131.2  | 130.7  | 348.3  | 463.3  | 307.9  | 230.5  |
| 85°   | 69.0   | 77.4   | 104.3  | 108.8  | 115.5  | 82.5   | 95.9   | 162.7  | 185.7  | 117.8  | 84.1   |
| 87.5° | 20.8   | 21.9   | 63.9   | 71.8   | 71.2   | 41.5   | 58.9   | 78.5   | 86.9   | 52.2   | 34.2   |
| 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°    | 828.4  | 828.4  | 828.4  | 828.4 | 828.4 | 828.4 | 828.4 | 828.4 | 828.4 | 828.4 | 828.4 |
| 2.5°  | 838.5  | 818.9  | 777.4  | 740.4 | 712.3 | 685.4 | 666.9 | 657.4 | 645.0 | 646.7 | 642.8 |
| 5°    | 864.3  | 824.0  | 750.5  | 691.0 | 651.2 | 620.9 | 602.4 | 592.9 | 583.9 | 579.4 | 582.8 |
| 7.5°  | 903.0  | 840.2  | 737.6  | 665.8 | 624.3 | 598.5 | 588.4 | 585.6 | 583.3 | 581.6 | 584.5 |
| 10°   | 953.0  | 868.8  | 735.3  | 656.8 | 618.7 | 603.0 | 599.0 | 597.4 | 595.1 | 592.9 | 594.5 |
| 12.5° | 1004.0 | 900.2  | 743.2  | 659.1 | 627.6 | 615.9 | 610.8 | 608.6 | 603.0 | 600.2 | 600.7 |
| 15°   | 1067.9 | 938.4  | 753.8  | 668.0 | 639.4 | 624.3 | 617.5 | 611.4 | 602.4 | 598.5 | 600.2 |
| 17.5° | 1136.4 | 983.8  | 768.4  | 676.4 | 643.9 | 625.4 | 611.9 | 603.0 | 594.0 | 588.4 | 588.9 |
| 20°   | 1213.8 | 1028.7 | 781.3  | 679.2 | 641.7 | 615.9 | 599.6 | 588.9 | 577.2 | 571.0 | 569.3 |
| 22.5° | 1294.0 | 1075.8 | 791.4  | 677.0 | 629.3 | 599.6 | 581.1 | 568.2 | 554.2 | 544.6 | 545.2 |
| 25°   | 1391.6 | 1139.7 | 799.8  | 669.1 | 613.1 | 578.3 | 557.5 | 541.3 | 526.7 | 517.7 | 518.3 |
| 27.5° | 1508.8 | 1212.1 | 809.9  | 656.8 | 593.4 | 555.3 | 531.2 | 514.9 | 500.9 | 492.5 | 491.3 |
| 30°   | 1665.3 | 1306.3 | 821.2  | 641.7 | 568.7 | 530.0 | 506.5 | 489.7 | 476.2 | 468.3 | 468.3 |
| 32.5° | 1841.4 | 1421.3 | 829.0  | 623.7 | 541.3 | 503.1 | 481.8 | 468.3 | 458.3 | 447.6 | 446.5 |
| 35°   | 1994.5 | 1510.5 | 853.1  | 609.7 | 517.1 | 477.9 | 463.3 | 453.8 | 438.6 | 428.5 | 426.8 |
| 37.5° | 2219.5 | 1667.5 | 924.4  | 605.8 | 488.0 | 458.3 | 455.4 | 437.5 | 420.1 | 401.0 | 399.4 |
| 40°   | 2581.8 | 1939.6 | 1007.4 | 586.7 | 457.7 | 447.6 | 444.8 | 420.7 | 379.7 | 367.9 | 365.7 |
| 42.5° | 3042.9 | 2267.1 | 1016.3 | 531.2 | 436.4 | 438.6 | 430.2 | 383.1 | 365.1 | 356.2 | 353.9 |
| 45°   | 3459.0 | 2533.0 | 965.3  | 474.5 | 420.7 | 425.2 | 407.8 | 369.1 | 359.0 | 350.6 | 348.3 |
| 47.5° | 3692.9 | 2614.9 | 868.8  | 431.9 | 408.9 | 413.4 | 371.9 | 362.3 | 352.2 | 343.8 | 341.6 |
| 50°   | 3758.6 | 2543.7 | 756.6  | 407.2 | 399.9 | 401.6 | 362.3 | 356.7 | 347.8 | 341.0 | 337.7 |
| 52.5° | 3771.5 | 2437.1 | 652.9  | 392.6 | 393.2 | 378.0 | 353.9 | 349.4 | 343.8 | 333.2 | 329.2 |
| 55°   | 3777.1 | 2341.2 | 559.8  | 383.7 | 388.7 | 347.8 | 345.0 | 341.6 | 337.1 | 325.9 | 323.6 |
| 57.5° | 3791.6 | 2218.3 | 486.9  | 376.9 | 383.1 | 333.7 | 334.9 | 332.6 | 327.0 | 322.0 | 320.8 |
| 60°   | 3750.1 | 2048.4 | 430.8  | 370.2 | 375.2 | 322.0 | 323.1 | 324.2 | 319.1 | 318.0 | 317.5 |
| 62.5° | 3611.0 | 1807.2 | 383.1  | 361.2 | 359.0 | 310.2 | 310.2 | 314.7 | 310.2 | 311.9 | 311.9 |
| 65°   | 3324.4 | 1499.8 | 340.5  | 344.4 | 333.7 | 297.3 | 296.7 | 304.6 | 297.8 | 305.1 | 305.7 |
| 67.5° | 2835.9 | 1135.3 | 296.7  | 318.0 | 307.4 | 283.8 | 286.1 | 292.2 | 283.3 | 298.4 | 298.4 |
| 70°   | 2244.7 | 772.4  | 251.3  | 281.0 | 280.4 | 268.7 | 276.0 | 275.4 | 265.3 | 287.7 | 283.8 |
| 72.5° | 1672.0 | 495.8  | 204.7  | 235.6 | 245.1 | 252.4 | 265.9 | 254.1 | 244.6 | 257.5 | 245.7 |
| 75°   | 1168.3 | 310.7  | 161.5  | 186.2 | 204.2 | 234.5 | 253.5 | 230.0 | 215.9 | 212.0 | 208.7 |
| 77.5° | 699.4  | 198.6  | 127.3  | 141.9 | 159.3 | 213.1 | 237.8 | 204.7 | 183.4 | 181.2 | 174.4 |
| 80°   | 322.5  | 129.6  | 97.0   | 106.0 | 113.3 | 182.9 | 216.5 | 175.0 | 149.2 | 147.0 | 139.1 |
| 82.5° | 145.8  | 85.3   | 72.4   | 75.7  | 76.3  | 145.3 | 182.9 | 138.5 | 113.9 | 184.5 | 159.9 |
| 85°   | 67.9   | 55.0   | 47.1   | 44.9  | 45.4  | 97.0  | 132.9 | 95.4  | 129.6 | 101.0 | 76.8  |
| 87.5° | 29.2   | 28.0   | 24.1   | 19.1  | 17.4  | 20.8  | 51.0  | 39.8  | 56.7  | 22.4  | 15.1  |
| 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)